

Components



Synchronising pulleys



Clamp plate



Self-tracking pulleys



Tension plates



Synchronising shafts



Tension rollers



Tensioners



Guide rails

Components

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Note: The range of our stock pulleys is to be found under the various profile types and the respective tooth pitch. The stock pulley dimensions are marked in blue.



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Ordering information

The production of synchronous pulleys is subject to a constant quality control. Generally, the synchronising pulleys are hobbled. Optimum function is reached by precisely designing tooth gaps and pitch uniformity.

Material and dimensions of the synchronous pulleys, such as number of teeth, pulley width, hole and flange arrangement. In the following please find information for the planner and designer.

Materials

Aluminium: or normal requirements we recommend the light metal alloy AlCuMgPb (F 38). This material is also used for the production of synchronous pulleys held in stock.

Steel: Should the mounting point of the synchronising pulley at the shaft be subject to increased load, the material steel is to be preferred.
Available options: C 45, St 50-2 and 9 S 20 K.

Other materials: If requested, all other commercial materials can be used, e. g. stainless steel, brass, plastics materials etc.

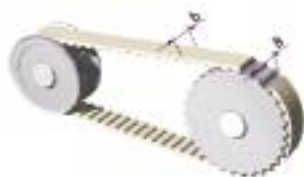
Flanges

Zinc plated steel is used as the standard material. The user is to determine special executions.

Mounting is achieved by flaring or bolting the flange, depending on the tooth profile and number of teeth used.

The belt width b is assigned a pulley width B each which guarantees sufficient lateral play.

The „width clearance“ is not especially dimensioned.

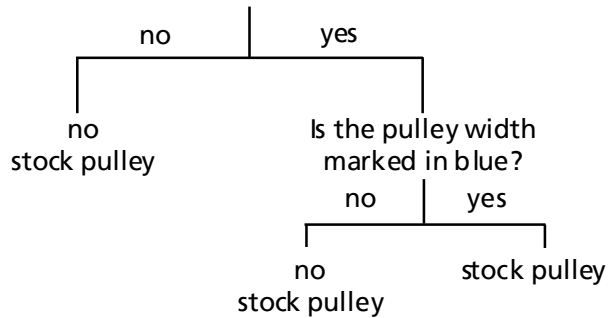


Tolerances

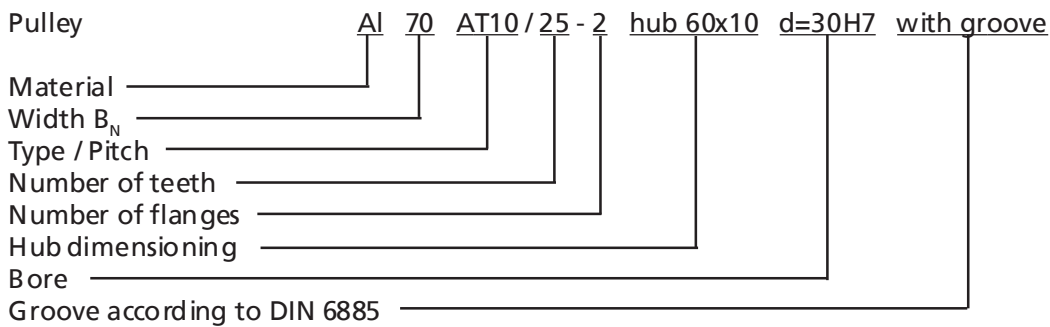
The centre boring is made in H7, if there are no other requirements.
All not tolerated dimensions are manufactured in the tolerance class „medium“ according to DIN 7168.

How to find a stock pulley

Is the number of teeth marked in blue?



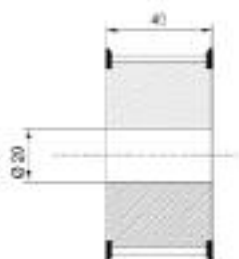
Order example:



Even without drawing you will get a product, which is tuned in function and quality to the timing belt delivery program, using the standard ordering text.

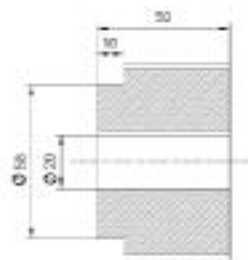
In the following illustrations you will find the ordering texts for various versions.

without hub



Ordering text:
Synchronising pulley Al 40 AT 10/24-2
d = 20 H7

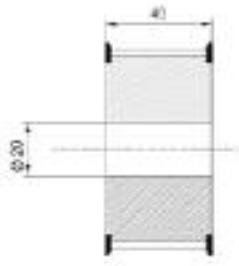
with hub



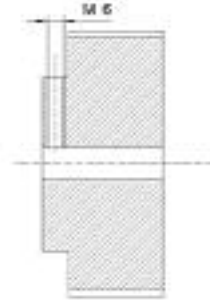
Ordering text:
Synchronising pulley Al 50 AT 10/24-0
Hub Ø 58 x 10
d = 20 H7 with groove

Ordering information

Position and number of flanges



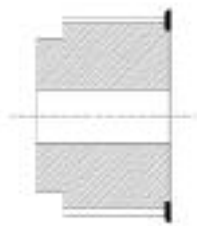
Number of flanges: 2



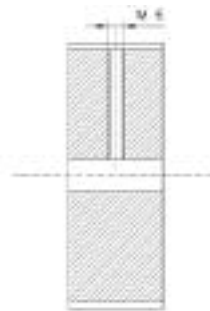
Fastening bore

Ordering text: Synchronising pulley
AI 40 AT 10/24-2
 $d = 20$ H7

Ordering text for fastening bore:
Threaded bore M6 ,centre, hub



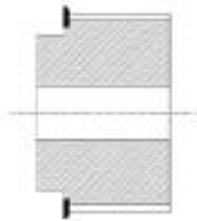
Number of flanges: 1



Fastening bore

Ordering text for a flange
opposite the hub side: _____-1g

Ordering text for fastening bore:
Threaded bore M6 ,centre, tooth



Number of flanges: 1

Further ordering codes:

Thread M4 centre of meshing on groove
(opposite groove)

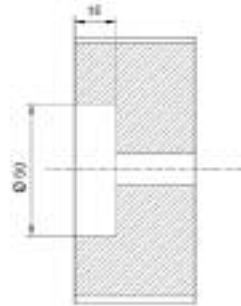
Thread M4 centre of meshing in tooth gap
(on tooth)

Thread M4 centre of hub
90° offset to groove

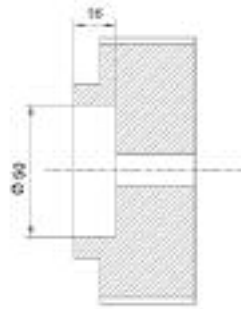
2 threads M4 centre of hub,
90° and 180° offset to groove

Ordering text for a flange
on the hub side: _____-1a

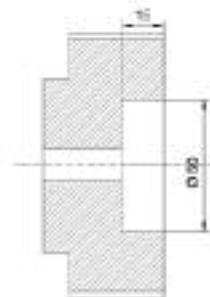
Position and dimensions of turned grooves



Ordering text for turned groove:
Turned groove Ø 50 x 16 deep



Ordering text for turned groove:
Turned groove Ø 50 x 16 deep
hub side



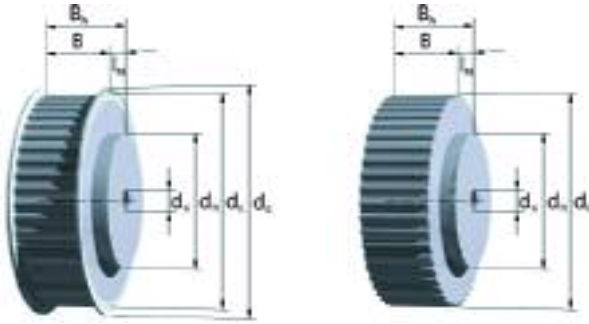
Ordering text for turned groove:
Turned groove Ø 50 x 16 deep
opposite hub

Components for ATN system



Synchronising pulley ATN 12.7

(only for ATN timing belts with pitch 12.7)



Order example:

Pulley AL 65 ATN 12,7 / 60 - 0 Nabe 110x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Pulley: AlCuMgPb
 Flange: Steel, zinc plated

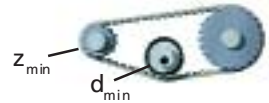
| | | | | | |
|--------------|------------|----|----|----|-----|
| Belt width | b [mm] | 25 | 50 | 75 | 100 |
| Pulley width | B [mm] | 32 | 60 | 85 | 110 |
| Total width | B_N [mm] | 42 | 70 | 95 | 120 |

Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 50$ mm
- * Minimum number of teeth without contraflexure

Drive type

without contraflexure



| z | Hub | | | Bore | | |
|----|------------|------------|------------|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| 15 | 58,82 | 60,64 | 67 | 30x10 | 12H7 | 47 |
| 16 | 62,86 | 64,68 | 70 | 32x10 | 12H7 | 51 |
| 17 | 66,90 | 68,72 | 74 | 36x10 | 12H7 | 55 |
| 18 | 70,95 | 72,77 | 76 | 40x10 | 12H7 | 59 |
| 19 | 74,99 | 76,81 | 82 | 40x10 | 12H7 | 63 |
| 20 | 79,03 | 80,85 | 86 | 46x10 | 12H7 | 67 |
| 21 | 83,07 | 84,89 | 90 | 46x10 | 12H7 | 71 |
| 22 | 87,12 | 88,94 | 93 | 46x10 | 12H7 | 75 |
| 23 | 91,16 | 92,98 | 96 | 50x10 | 12H7 | 79 |
| 24 | 95,20 | 97,02 | 102 | 58x10 | 12H7 | 83 |
| 25 | 99,24 | 101,06 | 105 | 58x10 | 12H7 | 87 |
| 26 | 103,29 | 105,11 | 110 | 58x10 | 12H7 | 91 |
| 27 | 107,33 | 109,15 | 113 | 58x10 | 12H7 | 95 |
| 28 | 111,37 | 113,19 | 117 | 60x10 | 12H7 | 99 |
| 29 | 115,41 | 117,23 | 121 | 60x10 | 12H7 | 103 |

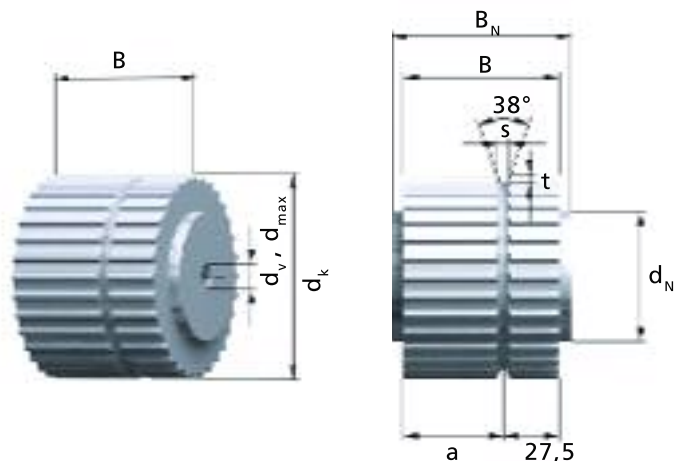
| z | Hub | | | Bore | | |
|----|------------|------------|------------|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| 30 | 119,46 | 121,28 | 126 | 60x10 | 12H7 | 107 |
| 31 | 123,50 | 125,32 | 129 | 60x10 | 12H7 | 111 |
| 32 | 127,54 | 129,36 | 134 | 60x10 | 12H7 | 116 |
| 33 | 131,58 | 133,40 | 137 | 60x10 | 12H7 | 120 |
| 34 | 135,63 | 137,45 | 142 | 60x10 | 12H7 | 124 |
| 35 | 139,67 | 141,49 | 145 | 60x10 | 12H7 | 128 |
| 36 | 143,71 | 145,53 | 150 | 60x10 | 16H7 | 132 |
| 37 | 147,75 | 149,57 | 153 | 60x10 | 16H7 | 134 |
| 38 | 151,80 | 153,62 | 158 | 60x10 | 16H7 | 136 |
| 39 | 155,84 | 157,66 | 161 | 60x10 | 16H7 | 140 |
| 40 | 159,88 | 161,70 | 166 | 60x10 | 16H7 | 146 |
| 41 | 163,92 | 165,74 | 171 | 60x10 | 16H7 | 152 |
| 42 | 167,97 | 169,79 | 174 | 60x10 | 16H7 | 154 |
| 43 | 172,01 | 173,83 | 179 | 60x10 | 16H7 | 158 |
| 44 | 176,05 | 177,87 | 182 | 60x10 | 16H7 | 162 |

Synchronising pulley ATN 12.7

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 45 | 180,09 | 181,91 | 185 | 90x10 | 16H7 164 | 80 | 321,58 | 323,40 | 329 | 140x10 | 20H7 293 |
| 46 | 184,14 | 185,96 | 191 | 90x10 | 16H7 170 | 81 | 325,62 | 327,45 | 332 | 140x10 | 20H7 297 |
| 47 | 188,18 | 190,00 | 195 | 90x10 | 16H7 174 | 82 | 329,67 | 331,49 | 335 | 140x10 | 20H7 300 |
| 48 | 192,22 | 194,04 | 198 | 110x10 | 16H7 178 | 83 | 333,71 | 335,53 | 341 | 140x10 | 20H7 306 |
| 49 | 196,26 | 198,08 | 201 | 110x10 | 16H7 180 | 84 | 337,75 | 339,57 | 344 | 140x10 | 20H7 309 |
| 50 | 200,31 | 202,13 | 207 | 110x10 | 16H7 186 | 85 | 341,79 | 343,62 | 348 | 140x10 | 20H7 312 |
| 51 | 204,35 | 206,17 | 210 | 110x10 | 16H7 190 | 86 | 345,84 | 347,66 | 351 | 140x10 | 20H7 316 |
| 52 | 208,39 | 210,21 | 214 | 110x10 | 16H7 194 | 87 | 349,88 | 351,70 | 355 | 140x10 | 20H7 319 |
| 53 | 212,43 | 214,25 | 217 | 110x10 | 16H7 196 | 88 | 353,92 | 355,74 | 360 | 140x10 | 20H7 325 |
| 54 | 216,48 | 218,30 | 223 | 110x10 | 16H7 200 | 89 | 357,96 | 359,79 | 363 | 140x10 | 20H7 328 |
| 55 | 220,52 | 222,34 | 226 | 110x10 | 16H7 204 | 90 | 362,01 | 363,83 | 367 | 140x10 | 20H7 332 |
| 56 | 224,56 | 226,38 | 230 | 110x10 | 16H7 208 | 91 | 366,05 | 367,87 | 372 | 140x10 | 20H7 336 |
| 57 | 228,60 | 230,42 | 236 | 110x10 | 16H7 214 | 92 | 370,09 | 371,91 | 377 | 140x10 | 20H7 341 |
| 58 | 232,65 | 234,47 | 239 | 110x10 | 16H7 217 | 93 | 374,13 | 375,96 | 382 | 160x10 | 20H7 346 |
| 59 | 236,69 | 238,51 | 242 | 110x10 | 16H7 220 | 94 | 378,18 | 380,00 | 386 | 160x10 | 20H7 350 |
| 60 | 240,73 | 242,55 | 245 | 110x10 | 16H7 223 | 95 | 382,22 | 384,04 | 388 | 160x10 | 20H7 350 |
| 61 | 244,77 | 246,59 | 252 | 110x10 | 16H7 231 | 96 | 386,26 | 388,08 | 391 | 160x10 | 20H7 355 |
| 62 | 248,82 | 250,64 | 255 | 110x10 | 16H7 233 | 97 | 390,31 | 392,13 | 396 | 160x10 | 20H7 360 |
| 63 | 252,86 | 254,68 | 258 | 110x10 | 16H7 236 | 98 | 394,35 | 396,17 | 401 | 160x10 | 20H7 365 |
| 64 | 256,90 | 258,72 | 261 | 110x10 | 16H7 239 | 99 | 398,39 | 400,21 | 405 | 160x10 | 20H7 369 |
| 65 | 260,94 | 262,76 | 268 | 110x10 | 16H7 246 | 100 | 402,43 | 404,25 | 410 | 160x10 | 20H7 374 |
| 66 | 264,99 | 266,81 | 271 | 110x10 | 16H7 249 | 101 | 406,48 | 408,30 | 412 | 160x10 | 20H7 374 |
| 67 | 269,03 | 270,85 | 274 | 110x10 | 16H7 252 | 102 | 410,52 | 412,34 | 418 | 160x10 | 20H7 379 |
| 68 | 273,07 | 274,89 | 280 | 110x10 | 16H7 258 | 103 | 414,56 | 416,38 | 420 | 160x10 | 20H7 384 |
| 69 | 277,11 | 278,93 | 284 | 110x10 | 16H7 262 | 104 | 418,60 | 420,42 | 425 | 160x10 | 20H7 389 |
| 70 | 281,16 | 282,98 | 287 | 110x10 | 16H7 265 | 105 | 422,65 | 424,47 | 429 | 160x10 | 20H7 393 |
| 71 | 285,20 | 287,02 | 290 | 110x10 | 16H7 268 | 106 | 426,69 | 428,51 | 434 | 160x10 | 20H7 398 |
| 72 | 289,24 | 291,06 | 296 | 110x10 | 16H7 261 | 107 | 430,73 | 432,55 | 438 | 160x10 | 20H7 398 |
| 73 | 293,28 | 295,11 | 300 | 140x10 | 20H7 265 | 108 | 434,77 | 436,59 | 440 | 160x10 | 20H7 403 |
| 74 | 297,33 | 299,15 | 302 | 140x10 | 20H7 268 | 109 | 438,82 | 440,64 | 444 | 160x10 | 20H7 408 |
| 75 | 301,37 | 303,19 | 306 | 140x10 | 20H7 271 | 110 | 442,86 | 444,68 | 448 | 160x10 | 20H7 412 |
| 76 | 305,41 | 307,23 | 310 | 140x10 | 20H7 274 | 111 | 446,90 | 448,72 | 453 | 160x10 | 20H7 417 |
| 77 | 309,45 | 311,28 | 315 | 140x10 | 20H7 281 | 112 | 450,94 | 452,76 | 459 | 160x10 | 20H7 422 |
| 78 | 313,50 | 315,32 | 320 | 140x10 | 20H7 284 | 113 | 454,99 | 456,81 | 463 | 160x10 | 20H7 427 |
| 79 | 317,54 | 319,36 | 325 | 140x10 | 20H7 290 | 114 | 459,03 | 460,85 | 465 | 160x10 | 30H7 427 |

Components for ATN system

Self-tracking pulley ATN 10 K6



Order example:

Pulley Al 65 ATN10K6 / 32 d=15 H7
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

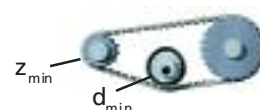
Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | |
|--------------|------------|------|------|------|
| Belt width | b [mm] | 50 | 75 | 100 |
| Pulley width | B [mm] | 55 | 80 | 105 |
| Total width | B_N [mm] | 65 | 90 | 115 |
| Tooth width | a [mm] | 27,5 | 52,5 | 77,5 |

Drive type

without contraflexure



Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure (z_{min})
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 80$ mm

| z | Hub | | | | Bore | | |
|-----|------------|------------|-----|---|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | $d_N \times l_N$ [mm] | d_v | d_{max} [mm] |
| *20 | 61,84 | 63,66 | 6,5 | 5 | 46x5 | 12H7 | 44 |
| 21 | 65,03 | 66,85 | 6,5 | 5 | 46x5 | 12H7 | 47 |
| 22 | 68,21 | 70,03 | 6,5 | 5 | 50x5 | 12H7 | 51 |
| 23 | 71,39 | 73,21 | 6,5 | 5 | 50x5 | 12H7 | 53 |
| 24 | 74,57 | 76,39 | 6,5 | 5 | 58x5 | 12H7 | 56 |
| 25 | 77,76 | 79,58 | 6,5 | 5 | 60x5 | 12H7 | 59 |
| 26 | 80,94 | 82,76 | 6,5 | 5 | 60x5 | 12H7 | 62 |
| 27 | 84,12 | 85,94 | 6,5 | 5 | 60x5 | 12H7 | 66 |
| 28 | 87,31 | 89,13 | 6,5 | 5 | 60x5 | 12H7 | 69 |
| 29 | 90,49 | 92,31 | 6,5 | 5 | 60x5 | 12H7 | 72 |

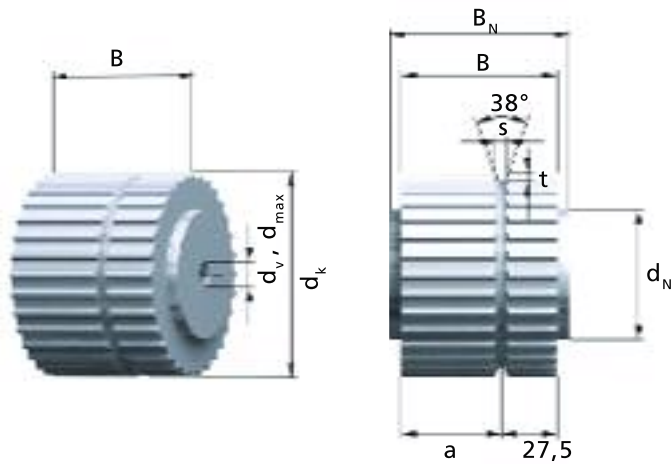
| z | Hub | | | | Bore | | |
|----|------------|------------|-----|---|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | $d_N \times l_N$ [mm] | d_v | d_{max} [mm] |
| 30 | 93,67 | 95,49 | 6,5 | 5 | 60x5 | 12H7 | 75 |
| 31 | 96,86 | 98,68 | 6,5 | 5 | 60x5 | 12H7 | 78 |
| 32 | 100,04 | 101,86 | 6,5 | 5 | 65x5 | 12H7 | 82 |
| 33 | 103,22 | 105,04 | 6,5 | 5 | 65x5 | 12H7 | 85 |
| 34 | 106,41 | 108,23 | 6,5 | 5 | 65x5 | 12H7 | 88 |
| 35 | 109,59 | 111,41 | 6,5 | 5 | 65x5 | 12H7 | 91 |
| 36 | 112,77 | 114,59 | 6,5 | 5 | 70x5 | 16H7 | 94 |
| 37 | 115,95 | 117,77 | 6,5 | 5 | 70x5 | 16H7 | 98 |
| 38 | 119,14 | 120,96 | 6,5 | 5 | 70x5 | 16H7 | 101 |
| 39 | 122,32 | 124,14 | 6,5 | 5 | 70x5 | 16H7 | 104 |
| 40 | 125,50 | 127,32 | 6,5 | 5 | 80x5 | 16H7 | 109 |
| 41 | 128,69 | 130,51 | 6,5 | 5 | 80x5 | 16H7 | 112 |
| 42 | 131,87 | 133,69 | 6,5 | 5 | 80x5 | 16H7 | 115 |
| 43 | 135,05 | 136,87 | 6,5 | 5 | 80x5 | 16H7 | 118 |
| 44 | 138,24 | 140,06 | 6,5 | 5 | 90x5 | 16H7 | 122 |

ATN 10 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Hub | | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Hub | | Bore | |
|----|------------------------|------------------------|-----|---|---|----------------|--------------------------|---|-----|------------------------|------------------------|-----|---|----------------|--------------------------|------|--|
| | | | | | d _N x l _N [mm] | d _V | d _{max} [mm] | d _N x l _N [mm] | | | | | | d _V | d _{max} [mm] | | |
| 45 | 141,42 | 143,24 | 6,5 | 5 | 90x5 | 16H7 | 123 | | 80 | 252,83 | 254,65 | 6,5 | 5 | 160x5 | 20H7 | 234 | |
| 46 | 144,60 | 146,42 | 6,5 | 5 | 90x5 | 16H7 | 126 | | 81 | 256,01 | 257,83 | 6,5 | 5 | 160x5 | 20H7 | 238 | |
| 47 | 147,79 | 149,61 | 6,5 | 5 | 90x5 | 16H7 | 129 | | 82 | 259,19 | 261,01 | 6,5 | 5 | 160x5 | 20H7 | 241 | |
| 48 | 150,97 | 152,79 | 6,5 | 5 | 95x5 | 16H7 | 132 | | 83 | 262,38 | 264,20 | 6,5 | 5 | 160x5 | 20H7 | 244 | |
| 49 | 154,15 | 155,97 | 6,5 | 5 | 95x5 | 16H7 | 136 | | 84 | 265,56 | 267,38 | 6,5 | 5 | 160x5 | 20H7 | 247 | |
| 50 | 157,33 | 159,15 | 6,5 | 5 | 95x5 | 16H7 | 139 | | 85 | 268,74 | 270,56 | 6,5 | 5 | 160x5 | 20H7 | 250 | |
| 51 | 160,52 | 162,34 | 6,5 | 5 | 95x5 | 16H7 | 142 | | 86 | 271,93 | 273,75 | 6,5 | 5 | 160x5 | 20H7 | 253 | |
| 52 | 163,70 | 165,52 | 6,5 | 5 | 110x5 | 16H7 | 145 | | 87 | 275,11 | 276,93 | 6,5 | 5 | 160x5 | 20H7 | 257 | |
| 53 | 166,88 | 168,70 | 6,5 | 5 | 110x5 | 16H7 | 148 | | 88 | 278,29 | 280,11 | 6,5 | 5 | 160x5 | 20H7 | 260 | |
| 54 | 170,07 | 171,89 | 6,5 | 5 | 110x5 | 16H7 | 152 | | 89 | 281,48 | 283,30 | 6,5 | 5 | 160x5 | 20H7 | 263 | |
| 55 | 173,25 | 175,07 | 6,5 | 5 | 110x5 | 16H7 | 155 | | 90 | 284,66 | 286,48 | 6,5 | 5 | 160x5 | 20H7 | 268 | |
| 56 | 176,43 | 178,25 | 6,5 | 5 | 110x5 | 16H7 | 158 | | 91 | 287,84 | 289,66 | 6,5 | 5 | 160x5 | 20H7 | 270 | |
| 57 | 179,62 | 181,44 | 6,5 | 5 | 110x5 | 16H7 | 161 | | 92 | 291,03 | 292,85 | 6,5 | 5 | 160x5 | 20H7 | 273 | |
| 58 | 182,80 | 184,62 | 6,5 | 5 | 110x5 | 16H7 | 164 | | 93 | 294,21 | 296,03 | 6,5 | 5 | 160x5 | 20H7 | 276 | |
| 59 | 185,98 | 187,80 | 6,5 | 5 | 110x5 | 16H7 | 167 | | 94 | 297,39 | 299,21 | 6,5 | 5 | 160x5 | 20H7 | 279 | |
| 60 | 189,17 | 190,99 | 6,5 | 5 | 110x5 | 16H7 | 171 | | 95 | 300,57 | 302,39 | 6,5 | 5 | 160x5 | 24H7 | 282 | |
| 61 | 192,35 | 194,17 | 6,5 | 5 | 110x5 | 16H7 | 174 | | 96 | 303,76 | 305,58 | 6,5 | 5 | 180x5 | 24H7 | 285 | |
| 62 | 195,53 | 197,35 | 6,5 | 5 | 110x5 | 16H7 | 177 | | 97 | 306,94 | 308,76 | 6,5 | 5 | 180x5 | 24H7 | 288 | |
| 63 | 198,72 | 200,54 | 6,5 | 5 | 140x5 | 16H7 | 181 | | 98 | 310,12 | 311,94 | 6,5 | 5 | 180x5 | 24H7 | 292 | |
| 64 | 201,90 | 203,72 | 6,5 | 5 | 140x5 | 16H7 | 183 | | 99 | 313,31 | 315,13 | 6,5 | 5 | 180x5 | 24H7 | 295 | |
| 65 | 205,08 | 206,90 | 6,5 | 5 | 140x5 | 16H7 | 187 | | 100 | 316,49 | 318,31 | 6,5 | 5 | 180x5 | 24H7 | 298 | |
| 66 | 208,26 | 210,08 | 6,5 | 5 | 140x5 | 16H7 | 190 | | 101 | 319,67 | 321,49 | 6,5 | 5 | 180x5 | 24H7 | 301 | |
| 67 | 211,45 | 213,27 | 6,5 | 5 | 140x5 | 16H7 | 193 | | 102 | 322,86 | 324,68 | 6,5 | 5 | 180x5 | 24H7 | 304 | |
| 68 | 214,63 | 216,45 | 6,5 | 5 | 140x5 | 16H7 | 196 | | 103 | 326,04 | 327,86 | 6,5 | 5 | 180x5 | 24H7 | 308 | |
| 69 | 217,81 | 219,63 | 6,5 | 5 | 140x5 | 16H7 | 201 | | 104 | 329,22 | 331,04 | 6,5 | 5 | 180x5 | 24H7 | 311 | |
| 70 | 221,00 | 222,82 | 6,5 | 5 | 140x5 | 16H7 | 203 | | 105 | 332,41 | 334,23 | 6,5 | 5 | 180x5 | 24H7 | 314 | |
| 71 | 224,18 | 226,00 | 6,5 | 5 | 140x5 | 16H7 | 206 | | 106 | 335,59 | 337,41 | 6,5 | 5 | 180x5 | 24H7 | 317 | |
| 72 | 227,36 | 229,18 | 6,5 | 5 | 140x5 | 20H7 | 209 | | 107 | 338,77 | 340,59 | 6,5 | 5 | 180x5 | 24H7 | 321 | |
| 73 | 230,55 | 232,37 | 6,5 | 5 | 140x5 | 20H7 | 212 | | 108 | 341,95 | 343,77 | 6,5 | 5 | 180x5 | 24H7 | 324 | |
| 74 | 233,73 | 235,55 | 6,5 | 5 | 140x5 | 20H7 | 215 | | 109 | 345,14 | 346,96 | 6,5 | 5 | 180x5 | 24H7 | 327 | |
| 75 | 236,91 | 238,73 | 6,5 | 5 | 140x5 | 20H7 | 218 | | 110 | 348,32 | 350,14 | 6,5 | 5 | 180x5 | 24H7 | 330 | |
| 76 | 240,10 | 241,92 | 6,5 | 5 | 140x5 | 20H7 | 222 | | 111 | 351,50 | 353,32 | 6,5 | 5 | 180x5 | 24H7 | 333 | |
| 77 | 243,28 | 245,10 | 6,5 | 5 | 160x5 | 20H7 | 225 | | 112 | 354,69 | 356,51 | 6,5 | 5 | 180x5 | 24H7 | 336 | |
| 78 | 246,46 | 248,28 | 6,5 | 5 | 160x5 | 20H7 | 228 | | 113 | 357,87 | 359,69 | 6,5 | 5 | 180x5 | 24H7 | 339 | |
| 79 | 249,64 | 251,46 | 6,5 | 5 | 160x5 | 20H7 | 232 | | 114 | 361,05 | 362,87 | 6,5 | 5 | 180x5 | 24H7 | 343 | |

Components for ATN system

Self-tracking pulley ATN 12,7 K6



Order example:

Pulley Al 65 ATN12,7K6 / 32 d=15 H7
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

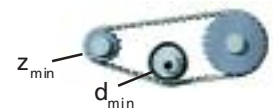
Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | |
|--------------|------------|------|------|------|
| Belt width | b [mm] | 50 | 75 | 100 |
| Pulley width | B [mm] | 55 | 80 | 105 |
| Total width | B_N [mm] | 65 | 90 | 115 |
| Tooth width | a [mm] | 27,5 | 52,5 | 77,5 |

Drive type

without contraflexure



Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 80$ mm

| z | Hub | | | | Bore | | |
|-----|------------|------------|-----|---|-----------------------|------------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] |
| *20 | 79,03 | 80,85 | 6,5 | 5 | 46x5 | 12H7 | 67 |
| 21 | 83,07 | 84,89 | 6,5 | 5 | 46x5 | 12H7 | 71 |
| 22 | 87,12 | 88,94 | 6,5 | 5 | 46x5 | 12H7 | 75 |
| 23 | 91,16 | 92,98 | 6,5 | 5 | 50x5 | 12H7 | 79 |
| 24 | 95,20 | 97,02 | 6,5 | 5 | 58x5 | 12H7 | 83 |
| 25 | 99,24 | 101,06 | 6,5 | 5 | 58x5 | 12H7 | 87 |
| 26 | 103,29 | 105,11 | 6,5 | 5 | 58x5 | 12H7 | 91 |
| 27 | 107,33 | 109,15 | 6,5 | 5 | 58x5 | 12H7 | 95 |
| 28 | 111,37 | 113,19 | 6,5 | 5 | 60x5 | 12H7 | 99 |
| 29 | 115,41 | 117,23 | 6,5 | 5 | 60x5 | 12H7 | 103 |

| z | Hub | | | | Bore | | |
|----|------------|------------|-----|---|-----------------------|------------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] |
| 30 | 119,46 | 121,28 | 6,5 | 5 | 60x5 | 12H7 | 107 |
| 31 | 123,50 | 125,32 | 6,5 | 5 | 60x5 | 12H7 | 111 |
| 32 | 127,54 | 129,36 | 6,5 | 5 | 60x5 | 12H7 | 116 |
| 33 | 131,58 | 133,40 | 6,5 | 5 | 60x5 | 12H7 | 120 |
| 34 | 135,63 | 137,45 | 6,5 | 5 | 60x5 | 12H7 | 124 |
| 35 | 139,67 | 141,49 | 6,5 | 5 | 60x5 | 12H7 | 128 |
| 36 | 143,71 | 145,53 | 6,5 | 5 | 60x5 | 16H7 | 132 |
| 37 | 147,75 | 149,57 | 6,5 | 5 | 60x5 | 16H7 | 134 |
| 38 | 151,80 | 153,62 | 6,5 | 5 | 60x5 | 16H7 | 136 |
| 39 | 155,84 | 157,66 | 6,5 | 5 | 60x5 | 16H7 | 140 |
| 40 | 159,88 | 161,70 | 6,5 | 5 | 60x5 | 16H7 | 146 |
| 41 | 163,92 | 165,74 | 6,5 | 5 | 60x5 | 16H7 | 152 |
| 42 | 167,97 | 169,79 | 6,5 | 5 | 60x5 | 16H7 | 154 |
| 43 | 172,01 | 173,83 | 6,5 | 5 | 60x5 | 16H7 | 158 |
| 44 | 176,05 | 177,87 | 6,5 | 5 | 60x5 | 16H7 | 162 |

ATN 12,7 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Hub | | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Hub | | Bore | |
|----|------------------------|------------------------|-----|---|---|----------------|--------------------------|---|-----|------------------------|------------------------|-----|---|----------------|--------------------------|------|--|
| | | | | | d _N x l _N [mm] | d _v | d _{max} [mm] | d _N x l _N [mm] | | | | | | d _v | d _{max} [mm] | | |
| 45 | 180,09 | 181,91 | 6,5 | 5 | 90x5 | 16H7 | 164 | | 80 | 321,58 | 323,40 | 6,5 | 5 | 140x5 | 20H7 | 293 | |
| 46 | 184,14 | 185,96 | 6,5 | 5 | 90x5 | 16H7 | 170 | | 81 | 325,62 | 327,45 | 6,5 | 5 | 140x5 | 20H7 | 297 | |
| 47 | 188,18 | 190,00 | 6,5 | 5 | 90x5 | 16H7 | 174 | | 82 | 329,67 | 331,49 | 6,5 | 5 | 140x5 | 20H7 | 300 | |
| 48 | 192,22 | 194,04 | 6,5 | 5 | 110x5 | 16H7 | 178 | | 83 | 333,71 | 335,53 | 6,5 | 5 | 140x5 | 20H7 | 306 | |
| 49 | 196,26 | 198,08 | 6,5 | 5 | 110x5 | 16H7 | 180 | | 84 | 337,75 | 339,57 | 6,5 | 5 | 140x5 | 20H7 | 309 | |
| 50 | 200,31 | 202,13 | 6,5 | 5 | 110x5 | 16H7 | 186 | | 85 | 341,79 | 343,62 | 6,5 | 5 | 140x5 | 20H7 | 312 | |
| 51 | 204,35 | 206,17 | 6,5 | 5 | 110x5 | 16H7 | 190 | | 86 | 345,84 | 347,66 | 6,5 | 5 | 140x5 | 20H7 | 316 | |
| 52 | 208,39 | 210,21 | 6,5 | 5 | 110x5 | 16H7 | 194 | | 87 | 349,88 | 351,70 | 6,5 | 5 | 140x5 | 20H7 | 319 | |
| 53 | 212,43 | 214,25 | 6,5 | 5 | 110x5 | 16H7 | 196 | | 88 | 353,92 | 355,74 | 6,5 | 5 | 140x5 | 20H7 | 325 | |
| 54 | 216,48 | 218,30 | 6,5 | 5 | 110x5 | 16H7 | 200 | | 89 | 357,96 | 359,79 | 6,5 | 5 | 140x5 | 20H7 | 328 | |
| 55 | 220,52 | 222,34 | 6,5 | 5 | 110x5 | 16H7 | 204 | | 90 | 362,01 | 363,83 | 6,5 | 5 | 140x5 | 20H7 | 332 | |
| 56 | 224,56 | 226,38 | 6,5 | 5 | 110x5 | 16H7 | 208 | | 91 | 366,05 | 367,87 | 6,5 | 5 | 140x5 | 20H7 | 336 | |
| 57 | 228,60 | 230,42 | 6,5 | 5 | 110x5 | 16H7 | 214 | | 92 | 370,09 | 371,91 | 6,5 | 5 | 140x5 | 20H7 | 341 | |
| 58 | 232,65 | 234,47 | 6,5 | 5 | 110x5 | 16H7 | 217 | | 93 | 374,13 | 375,96 | 6,5 | 5 | 160x5 | 20H7 | 346 | |
| 59 | 236,69 | 238,51 | 6,5 | 5 | 110x5 | 16H7 | 220 | | 94 | 378,18 | 380,00 | 6,5 | 5 | 160x5 | 20H7 | 350 | |
| 60 | 240,73 | 242,55 | 6,5 | 5 | 110x5 | 16H7 | 223 | | 95 | 382,22 | 384,04 | 6,5 | 5 | 160x5 | 20H7 | 350 | |
| 61 | 244,77 | 246,59 | 6,5 | 5 | 110x5 | 16H7 | 231 | | 96 | 386,26 | 388,08 | 6,5 | 5 | 160x5 | 20H7 | 355 | |
| 62 | 248,82 | 250,64 | 6,5 | 5 | 110x5 | 16H7 | 233 | | 97 | 390,31 | 392,13 | 6,5 | 5 | 160x5 | 20H7 | 360 | |
| 63 | 252,86 | 254,68 | 6,5 | 5 | 110x5 | 16H7 | 236 | | 98 | 394,35 | 396,17 | 6,5 | 5 | 160x5 | 20H7 | 365 | |
| 64 | 256,90 | 258,72 | 6,5 | 5 | 110x5 | 16H7 | 239 | | 99 | 398,39 | 400,21 | 6,5 | 5 | 160x5 | 20H7 | 369 | |
| 65 | 260,94 | 262,76 | 6,5 | 5 | 110x5 | 16H7 | 246 | | 100 | 402,43 | 404,25 | 6,5 | 5 | 160x5 | 20H7 | 374 | |
| 66 | 264,99 | 266,81 | 6,5 | 5 | 110x5 | 16H7 | 249 | | 101 | 406,48 | 408,30 | 6,5 | 5 | 160x5 | 20H7 | 374 | |
| 67 | 269,03 | 270,85 | 6,5 | 5 | 110x5 | 16H7 | 252 | | 102 | 410,52 | 412,34 | 6,5 | 5 | 160x5 | 20H7 | 379 | |
| 68 | 273,07 | 274,89 | 6,5 | 5 | 110x5 | 16H7 | 258 | | 103 | 414,56 | 416,38 | 6,5 | 5 | 160x5 | 20H7 | 384 | |
| 69 | 277,11 | 278,93 | 6,5 | 5 | 110x5 | 16H7 | 262 | | 104 | 418,60 | 420,42 | 6,5 | 5 | 160x5 | 20H7 | 389 | |
| 70 | 281,16 | 282,98 | 6,5 | 5 | 110x5 | 16H7 | 265 | | 105 | 422,65 | 424,47 | 6,5 | 5 | 160x5 | 20H7 | 393 | |
| 71 | 285,20 | 287,02 | 6,5 | 5 | 110x5 | 16H7 | 268 | | 106 | 426,69 | 428,51 | 6,5 | 5 | 160x5 | 20H7 | 398 | |
| 72 | 289,24 | 291,06 | 6,5 | 5 | 110x5 | 16H7 | 261 | | 107 | 430,73 | 432,55 | 6,5 | 5 | 160x5 | 20H7 | 398 | |
| 73 | 293,28 | 295,11 | 6,5 | 5 | 140x5 | 20H7 | 265 | | 108 | 434,77 | 436,59 | 6,5 | 5 | 160x5 | 20H7 | 403 | |
| 74 | 297,33 | 299,15 | 6,5 | 5 | 140x5 | 20H7 | 268 | | 109 | 438,82 | 440,64 | 6,5 | 5 | 160x5 | 20H7 | 408 | |
| 75 | 301,37 | 303,19 | 6,5 | 5 | 140x5 | 20H7 | 271 | | 110 | 442,86 | 444,68 | 6,5 | 5 | 160x5 | 20H7 | 412 | |
| 76 | 305,41 | 307,23 | 6,5 | 5 | 140x5 | 20H7 | 274 | | 111 | 446,90 | 448,72 | 6,5 | 5 | 160x5 | 20H7 | 417 | |
| 77 | 309,45 | 311,28 | 6,5 | 5 | 140x5 | 20H7 | 281 | | 112 | 450,94 | 452,76 | 6,5 | 5 | 160x5 | 20H7 | 422 | |
| 78 | 313,50 | 315,32 | 6,5 | 5 | 140x5 | 20H7 | 284 | | 113 | 454,99 | 456,81 | 6,5 | 5 | 160x5 | 20H7 | 427 | |
| 79 | 317,54 | 319,36 | 6,5 | 5 | 140x5 | 20H7 | 290 | | 114 | 459,03 | 460,85 | 6,5 | 5 | 160x5 | 30H7 | 427 | |

Components for ATN system

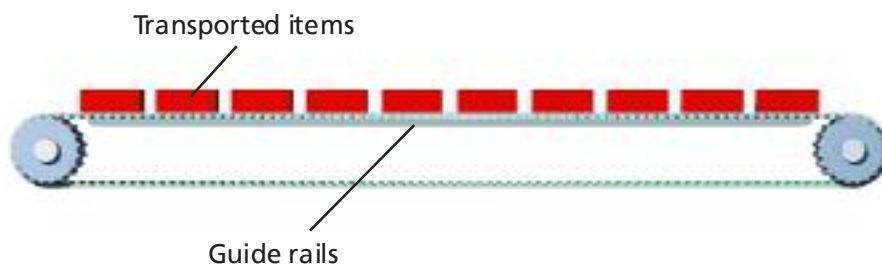
Guide rails for ATN with guide key

The ATN system is especially designed for the application in the transport technology. We offer not only the respective pulleys but also further accessories.

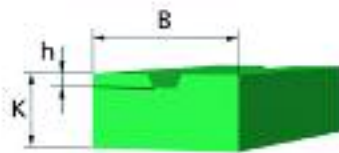
Guide rails must be applied in the transport line to prevent a wandering-off effect of the timing belt caused by the transported items.

For ATN timing belts without guide key, guide rails type G, GC, F and FC can be used. Refer also page 350 and following.

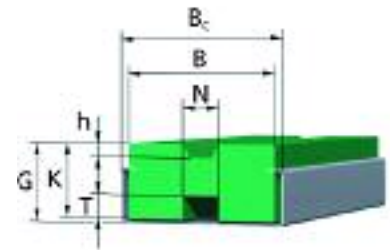
Special guide rails in type ATN K and ATN KC are available for BRECO® TIMING BELTS ATN 10 K6 and ATN 12.7 K6 in the width 75 mm and 100 mm



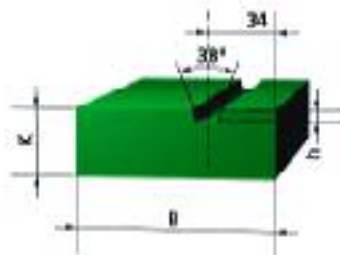
Guide rails with V-guide



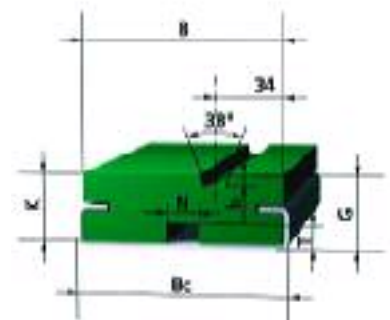
Type K6
(for belt width 50 mm)



Type K6 C
(for belt width 50 mm)



Type ATN K6
(for belt width 50 mm
and 100 mm)



Type ATN K6 C
(for belt width 50 mm
and 100 mm)

Order example:

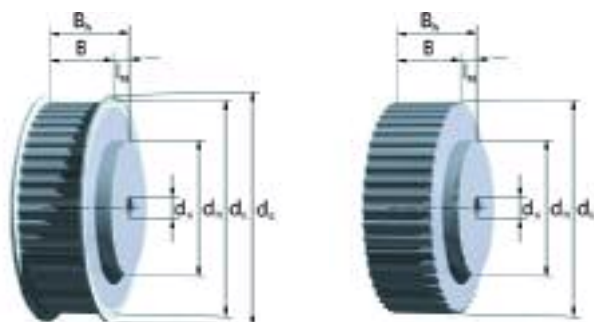
Guide rail ATN K6 C 75 x 2 / 1200
 Type _____
 for belt width x h _____
 Length in mm _____

Standard length 2000 mm

| Type | Belt width [mm] | B | K | h | B _c | G | N | T |
|----------------|-----------------|-----|----|---|----------------|------|----|---|
| ATN K6 50x2 | 50 | 68 | 32 | 2 | - | - | - | - |
| ATN K6 75x2 | 75 | 93 | 32 | 2 | - | - | - | - |
| ATN K6 100x2 | 100 | 118 | 32 | 2 | - | - | - | - |
| ATN K6 C 50x2 | 50 | 68 | 32 | 2 | 75 | 34,5 | 14 | 9 |
| ATN K6 C 75x2 | 75 | 93 | 32 | 2 | 100 | 34,5 | 14 | 9 |
| ATN K6 C 100x2 | 100 | 118 | 32 | 2 | 125 | 34,5 | 14 | 9 |

Synchronising pulleys, AT profile

AT 3



Stock pulleys up to $z = 40$ with flanges

Stock pulleys over $z = 44$ without flanges

Order example:

Pulley AL 28 AT3 / 60 - 0 Nabe 38x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

Flange: Steel, zinc plated

| | | | | | | |
|--------------|------------|----|----|----|----|----|
| Belt width | b [mm] | 6 | 10 | 16 | 25 | 32 |
| Pulley width | B [mm] | 10 | 15 | 22 | 32 | 40 |
| Total width | B_N [mm] | 16 | 21 | 28 | 38 | 48 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 20$ mm

running on the back of the belt $\varnothing 20$ mm

Drive type

without contraflexure



with contraflexure



| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v d_{max} [mm] |
|-----|---------------|---------------|---------------|---------------------------------|---------------------------------|
| *15 | 13,91 | 14,32 | 19 | 10x6 | 4H7 4 |
| 16 | 14,87 | 15,28 | 20 | 10x6 | 4H7 5 |
| 17 | 15,82 | 16,23 | 21 | 10x6 | 4H7 6 |
| 18 | 16,78 | 17,19 | 22 | 12x6 | 4H7 7 |
| 19 | 17,73 | 18,14 | 23 | 12x6 | 4H7 8 |
| *20 | 18,69 | 19,10 | 24 | 14x6 | 4H7 9 |
| 21 | 19,64 | 20,05 | 25 | 14x6 | 6H7 10 |
| 22 | 20,60 | 21,01 | 26 | 14x6 | 6H7 11 |
| 23 | 21,55 | 21,96 | 26 | 14x6 | 6H7 12 |
| 24 | 22,51 | 22,92 | 28 | 14x6 | 6H7 13 |
| 25 | 23,46 | 23,87 | 30 | 16x6 | 6H7 14 |
| 26 | 24,42 | 24,83 | 30 | 16x6 | 6H7 15 |
| 27 | 25,37 | 25,78 | 30 | 16x6 | 6H7 15 |
| 28 | 26,33 | 26,74 | 32 | 16x6 | 6H7 16 |
| 29 | 27,28 | 27,69 | 34 | 16x6 | 6H7 17 |

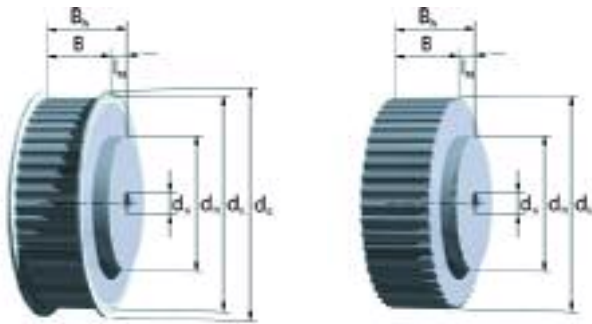
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v d_{max} [mm] |
|-----|---------------|---------------|---------------|---------------------------------|---------------------------------|
| 30 | 28,24 | 28,65 | 34 | 20x6 | 6H7 18 |
| 31 | 29,19 | 29,60 | 35 | 20x6 | 6H7 19 |
| 32 | 30,15 | 30,56 | 36 | 20x6 | 6H7 20 |
| 33 | 31,10 | 31,51 | 36 | 20x6 | 6H7 21 |
| 34 | 32,06 | 32,47 | 37 | 20x6 | 6H7 22 |
| 35 | 33,01 | 33,42 | 39 | 20x6 | 6H7 23 |
| 36 | 33,97 | 34,38 | 40 | 22x6 | 6H7 24 |
| 37 | 34,92 | 35,33 | 40 | 22x6 | 6H7 25 |
| 38 | 35,88 | 36,29 | 42 | 22x6 | 6H7 26 |
| 39 | 36,83 | 37,24 | 42 | 22x6 | 6H7 27 |
| 40 | 37,79 | 38,20 | 43 | 26x6 | 6H7 28 |
| 41 | 38,74 | 39,15 | 45 | 26x6 | 6H7 29 |
| 42 | 39,70 | 40,11 | 45 | 26x6 | 6H7 30 |
| 43 | 40,65 | 41,06 | 47 | 26x6 | 6H7 31 |
| 44 | 41,61 | 42,02 | 47 | 30x6 | 6H7 32 |

AT 3

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _v | d _{max} [mm] | | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _v | d _{max} [mm] |
| 45 | 42,56 | 42,97 | 48 | 30x6 | 6H7 | 33 | 80 | 75,98 | 76,39 | 82 | 50x6 | 8H7 | 66 |
| 46 | 43,52 | 43,93 | 50 | 30x6 | 6H7 | 34 | 81 | 76,94 | 77,35 | 82 | 50x6 | 8H7 | 67 |
| 47 | 44,47 | 44,88 | 50 | 30x6 | 6H7 | 35 | 82 | 77,89 | 78,30 | 84 | 50x6 | 8H7 | 68 |
| 48 | 45,43 | 45,84 | 52 | 34x6 | 6H7 | 36 | 83 | 78,85 | 79,26 | 84 | 50x6 | 8H7 | 69 |
| 49 | 46,38 | 46,79 | 52 | 34x6 | 6H7 | 36 | 84 | 79,80 | 80,21 | 86 | 50x6 | 8H7 | 70 |
| 50 | 47,34 | 47,75 | 53 | 34x6 | 6H7 | 37 | 85 | 80,76 | 81,17 | 86 | 50x6 | 8H7 | 71 |
| 51 | 48,29 | 48,70 | 53 | 34x6 | 6H7 | 38 | 86 | 81,71 | 82,12 | 88 | 50x6 | 8H7 | 72 |
| 52 | 49,25 | 49,66 | 55 | 34x6 | 6H7 | 39 | 87 | 82,67 | 83,08 | 88 | 50x6 | 8H7 | 73 |
| 53 | 50,20 | 50,61 | 55 | 34x6 | 6H7 | 40 | 88 | 83,62 | 84,03 | 90 | 50x6 | 8H7 | 74 |
| 54 | 51,16 | 51,57 | 56 | 34x6 | 6H7 | 41 | 89 | 84,58 | 84,99 | 90 | 50x6 | 8H7 | 75 |
| 55 | 52,11 | 52,52 | 58 | 34x6 | 6H7 | 42 | 90 | 85,53 | 85,94 | 91 | 50x6 | 8H7 | 76 |
| 56 | 53,07 | 53,48 | 58 | 34x6 | 6H7 | 43 | 91 | 86,49 | 86,90 | 93 | 65x6 | 8H7 | 77 |
| 57 | 54,02 | 54,43 | 60 | 34x6 | 6H7 | 44 | 92 | 87,44 | 87,85 | 93 | 65x6 | 8H7 | 78 |
| 58 | 54,98 | 55,39 | 60 | 34x6 | 6H7 | 45 | 93 | 88,40 | 88,81 | 94 | 65x6 | 8H7 | 79 |
| 59 | 55,93 | 56,34 | 61 | 34x6 | 6H7 | 46 | 94 | 89,35 | 89,76 | 94 | 65x6 | 8H7 | 79 |
| 60 | 56,89 | 57,30 | 62 | 38x6 | 6H7 | 47 | 95 | 90,31 | 90,72 | 96 | 65x6 | 8H7 | 80 |
| 61 | 57,84 | 58,25 | 64 | 38x6 | 6H7 | 48 | 96 | 91,26 | 91,67 | 96 | 65x6 | 8H7 | 81 |
| 62 | 58,80 | 59,21 | 64 | 38x6 | 6H7 | 49 | 97 | 92,22 | 92,63 | 96 | 65x6 | 8H7 | 82 |
| 63 | 59,75 | 60,16 | 66 | 38x6 | 6H7 | 50 | 98 | 93,17 | 93,58 | 99 | 65x6 | 8H7 | 83 |
| 64 | 60,71 | 61,12 | 66 | 38x6 | 6H7 | 51 | 99 | 94,13 | 94,54 | 99 | 65x6 | 8H7 | 84 |
| 65 | 61,66 | 62,07 | 68 | 38x6 | 6H7 | 52 | 100 | 95,08 | 95,49 | 100 | 65x6 | 8H7 | 85 |
| 66 | 62,62 | 63,03 | 68 | 38x6 | 6H7 | 53 | 101 | 96,04 | 96,45 | 100 | 65x6 | 8H7 | 86 |
| 67 | 63,57 | 63,98 | 70 | 38x6 | 6H7 | 54 | 102 | 96,99 | 97,40 | 102 | 65x6 | 8H7 | 87 |
| 68 | 64,53 | 64,94 | 70 | 38x6 | 6H7 | 55 | 103 | 97,95 | 98,36 | 102 | 65x6 | 8H7 | 88 |
| 69 | 65,48 | 65,89 | 72 | 38x6 | 6H7 | 56 | 104 | 98,90 | 99,31 | 104 | 65x6 | 8H7 | 89 |
| 70 | 66,44 | 66,85 | 72 | 38x6 | 6H7 | 57 | 105 | 99,86 | 100,27 | 104 | 65x6 | 8H7 | 90 |
| 71 | 67,39 | 67,80 | 74 | 38x6 | 6H7 | 58 | 106 | 100,81 | 101,22 | 104 | 65x6 | 10H7 | 91 |
| 72 | 68,34 | 68,75 | 74 | 50x6 | 6H7 | 58 | 107 | 101,77 | 102,18 | 106 | 65x6 | 10H7 | 92 |
| 73 | 69,30 | 69,71 | 74 | 50x6 | 8H7 | 59 | 108 | 102,72 | 103,13 | 106 | 65x6 | 10H7 | 93 |
| 74 | 70,25 | 70,66 | 75 | 50x6 | 8H7 | 60 | 109 | 103,68 | 104,09 | 108 | 65x6 | 10H7 | 94 |
| 75 | 71,21 | 71,62 | 76 | 50x6 | 8H7 | 61 | 110 | 104,63 | 105,04 | 108 | 65x6 | 10H7 | 95 |
| 76 | 72,16 | 72,57 | 78 | 50x6 | 8H7 | 62 | 111 | 105,59 | 106,00 | 110 | 65x6 | 10H7 | 96 |
| 77 | 73,12 | 73,53 | 78 | 50x6 | 8H7 | 63 | 112 | 106,54 | 106,95 | 110 | 65x6 | 10H7 | 97 |
| 78 | 74,07 | 74,48 | 80 | 50x6 | 8H7 | 64 | 113 | 107,50 | 107,91 | 112 | 65x6 | 10H7 | 98 |
| 79 | 75,03 | 75,44 | 80 | 50x6 | 8H7 | 65 | 114 | 108,45 | 108,86 | 112 | 65x6 | 10H7 | 99 |

Synchronising pulleys, AT profile

AT 5



Order example

Pulley AL 28 AT5 / 60 - 0 Hub 65x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

Flange: Steel, zinc plated

Stock pulleys up to $z = 44$ with flanges

Stock pulleys over $z = 48$ without flanges

| Belt width | b [mm] | 10 | 16 | 25 | 32 | 50 | 75 | 100 |
|--------------|------------|----|----|----|----|----|----|-----|
| Pulley width | B [mm] | 16 | 22 | 32 | 40 | 60 | 85 | 110 |
| Total width | B_N [mm] | 22 | 28 | 38 | 46 | 66 | 90 | 115 |

Drive type

without contraflexure

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys

with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 25$ mm

running on the back of the belt $\varnothing 60$ mm



with contraflexure



| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|------------|------------|------------|---------------------------|-----------------|----------------|
| *15 | 22,65 | 23,87 | 28 | 16x6 | 6H7 | 10 |
| 16 | 24,24 | 25,46 | 30 | 18x6 | 6H7 | 12 |
| 17 | 25,84 | 27,06 | 32 | 18x6 | 6H7 | 14 |
| 18 | 27,43 | 28,65 | 34 | 20x6 | 6H7 | 16 |
| 19 | 29,02 | 30,24 | 35 | 22x6 | 6H7 | 16 |
| *20 | 30,61 | 31,83 | 36 | 24x6 | 6H7 | 18 |
| 21 | 32,20 | 33,42 | 37 | 24x6 | 6H7 | 20 |
| 22 | 33,79 | 35,01 | 39 | 24x6 | 6H7 | 22 |
| 23 | 35,39 | 36,61 | 40 | 24x6 | 8H7 | 24 |
| 24 | 36,98 | 38,20 | 42 | 26x6 | 8H7 | 24 |
| 25 | 38,57 | 39,79 | 43 | 26x6 | 8H7 | 25 |
| 26 | 40,16 | 41,38 | 45 | 26x6 | 8H7 | 25 |
| 27 | 41,75 | 42,97 | 47 | 30x6 | 8H7 | 27 |
| 28 | 43,34 | 44,56 | 48 | 30x6 | 8H7 | 29 |
| 29 | 44,93 | 46,15 | 50 | 30x6 | 8H7 | 31 |

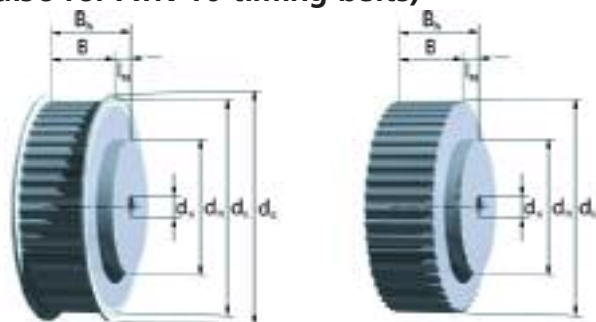
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|------------|------------|------------|---------------------------|-----------------|----------------|
| 30 | 46,53 | 47,75 | 52 | 34x6 | 8H7 | 33 |
| 31 | 48,12 | 49,34 | 53 | 34x6 | 8H7 | 35 |
| 32 | 49,71 | 50,93 | 55 | 38x6 | 8H7 | 37 |
| 33 | 51,30 | 52,52 | 56 | 38x6 | 8H7 | 39 |
| 34 | 52,89 | 54,11 | 58 | 38x6 | 8H7 | 39 |
| 35 | 54,48 | 55,70 | 60 | 38x6 | 8H7 | 40 |
| 36 | 56,08 | 57,30 | 61 | 38x6 | 8H7 | 42 |
| 37 | 57,67 | 58,89 | 62 | 38x6 | 8H7 | 43 |
| 38 | 59,26 | 60,48 | 64 | 38x6 | 8H7 | 45 |
| 39 | 60,85 | 62,07 | 66 | 38x6 | 8H7 | 45 |
| 40 | 62,44 | 63,66 | 68 | 40x6 | 8H7 | 47 |
| 41 | 64,03 | 65,25 | 70 | 40x6 | 8H7 | 48 |
| 42 | 65,63 | 66,85 | 72 | 40x6 | 8H7 | 50 |
| 43 | 67,22 | 68,44 | 72 | 40x6 | 8H7 | 52 |
| 44 | 68,81 | 70,03 | 74 | 50x6 | 8H7 | 52 |

AT 5

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 45 | 70,40 | 71,62 | 75 | 50x6 | 8H7 54 | 80 | 126,10 | 127,32 | 131 | 80x6 | 10H7 106 |
| 46 | 71,99 | 73,21 | 76 | 50x6 | 8H7 56 | 81 | 127,70 | 128,92 | 134 | 80x6 | 10H7 108 |
| 47 | 73,58 | 47,80 | 78 | 50x6 | 8H7 58 | 82 | 129,29 | 130,51 | 134 | 80x6 | 10H7 110 |
| 48 | 75,17 | 76,39 | 80 | 50x6 | 8H7 60 | 83 | 130,88 | 132,10 | 137 | 80x6 | 10H7 110 |
| 49 | 76,77 | 77,99 | 82 | 50x6 | 8H7 60 | 84 | 132,47 | 133,69 | 137 | 80x6 | 10H7 112 |
| 50 | 78,36 | 79,58 | 84 | 50x6 | 8H7 60 | 85 | 134,06 | 135,28 | 140 | 80x6 | 10H7 114 |
| 51 | 79,95 | 81,17 | 86 | 50x6 | 8H7 62 | 86 | 135,65 | 136,87 | 142 | 80x6 | 10H7 116 |
| 52 | 81,54 | 82,76 | 86 | 50x6 | 8H7 64 | 87 | 137,24 | 138,46 | 142 | 80x6 | 10H7 119 |
| 53 | 83,13 | 84,35 | 88 | 50x6 | 8H7 66 | 88 | 138,84 | 140,06 | 144 | 80x6 | 10H7 119 |
| 54 | 84,72 | 85,94 | 90 | 50x6 | 8H7 66 | 89 | 140,43 | 141,65 | 147 | 80x6 | 10H7 120 |
| 55 | 86,32 | 87,54 | 91 | 50x6 | 8H7 68 | 90 | 142,02 | 143,24 | 147 | 80x6 | 10H7 120 |
| 56 | 87,91 | 89,13 | 93 | 50x6 | 8H7 70 | 91 | 143,61 | 144,83 | 150 | 90x6 | 10H7 122 |
| 57 | 89,50 | 90,72 | 94 | 50x6 | 8H7 72 | 92 | 145,20 | 146,42 | 150 | 90x6 | 10H7 124 |
| 58 | 91,09 | 92,31 | 96 | 50x6 | 8H7 74 | 93 | 146,79 | 148,01 | 153 | 90x6 | 10H7 126 |
| 59 | 92,68 | 93,90 | 99 | 50x6 | 8H7 74 | 94 | 148,39 | 149,61 | 153 | 90x6 | 10H7 126 |
| 60 | 94,27 | 95,49 | 99 | 65x6 | 8H7 76 | 95 | 149,98 | 151,20 | 156 | 90x6 | 10H7 129 |
| 61 | 95,86 | 97,08 | 100 | 65x6 | 8H7 79 | 96 | 151,57 | 152,79 | 156 | 90x6 | 10H7 130 |
| 62 | 97,46 | 98,68 | 102 | 65x6 | 8H7 80 | 97 | 153,16 | 154,38 | 158 | 90x6 | 10H7 130 |
| 63 | 99,05 | 100,27 | 104 | 65x6 | 8H7 82 | 98 | 154,75 | 155,97 | 160 | 90x6 | 10H7 132 |
| 64 | 100,64 | 101,86 | 104 | 65x6 | 8H7 82 | 99 | 156,34 | 157,56 | 163 | 90x6 | 10H7 132 |
| 65 | 102,23 | 103,45 | 107 | 65x6 | 8H7 84 | 100 | 157,93 | 159,15 | 163 | 90x6 | 10H7 134 |
| 66 | 103,82 | 105,04 | 109 | 65x6 | 8H7 86 | 101 | 159,53 | 160,75 | 166 | 95x6 | 12H7 136 |
| 67 | 105,41 | 106,63 | 112 | 65x6 | 8H7 88 | 102 | 161,12 | 162,34 | 166 | 95x6 | 12H7 139 |
| 68 | 107,01 | 108,23 | 112 | 65x6 | 8H7 90 | 103 | 162,71 | 163,93 | 169 | 95x6 | 12H7 140 |
| 69 | 108,60 | 109,82 | 115 | 65x6 | 8H7 90 | 104 | 164,30 | 165,52 | 169 | 95x6 | 12H7 140 |
| 70 | 110,19 | 111,41 | 115 | 65x6 | 8H7 90 | 105 | 165,89 | 167,11 | 171 | 95x6 | 12H7 140 |
| 71 | 111,78 | 113,00 | 117 | 65x6 | 8H7 92 | 106 | 167,48 | 168,70 | 172 | 95x6 | 12H7 142 |
| 72 | 113,37 | 114,59 | 118 | 80x6 | 8H7 94 | 107 | 169,08 | 170,30 | 174 | 95x6 | 12H7 146 |
| 73 | 114,96 | 116,18 | 120 | 80x6 | 10H7 96 | 108 | 170,67 | 171,89 | 176 | 95x6 | 12H7 146 |
| 74 | 116,55 | 117,77 | 121 | 80x6 | 10H7 96 | 109 | 172,26 | 173,48 | 179 | 110x6 | 12H7 148 |
| 75 | 118,15 | 119,37 | 123 | 80x6 | 10H7 98 | 110 | 173,85 | 175,07 | 179 | 110x6 | 12H7 150 |
| 76 | 119,74 | 120,96 | 125 | 80x6 | 10H7 100 | 111 | 175,44 | 176,66 | 180 | 110x6 | 12H7 150 |
| 77 | 121,33 | 122,55 | 128 | 80x6 | 10H7 102 | 112 | 177,03 | 178,25 | 182 | 110x6 | 12H7 152 |
| 78 | 122,92 | 124,14 | 128 | 80x6 | 10H7 104 | 113 | 178,63 | 179,85 | 185 | 110x6 | 12H7 152 |
| 79 | 124,51 | 125,73 | 131 | 80x6 | 10H7 104 | 114 | 180,22 | 181,44 | 185 | 110x6 | 12H7 152 |

Synchronising pulleys, AT profile

AT 10 (also for ATN 10 timing belts)



Stock pulleys up to
z = 44 with flanges

Stock pulleys over
z = 48 without flanges

| Belt width | b [mm] | 25 | 32 | 50 | 75 | 100 | 150 |
|----------------|---------------------|----|----|----|----|-----|-----|
| Pulley width | B [mm] | 32 | 40 | 60 | 85 | 110 | 160 |
| for ATN system | B [mm] | 32 | - | 60 | 85 | 110 | - |
| Total width | B _N [mm] | 42 | 50 | 70 | 95 | 120 | 170 |

The stock pulleys with standard dimensioning are marked in **blue**
In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B^k = flange diameter
- d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys
with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure; (*) ATN timing belt z_{min} = 25

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø50 mm (ATN: Ø80)
running on the back of the belt Ø120 mm

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] |
|---------|------------------------|------------------------|------------------------|--|---|
| * 15 | 45,93 | 47,75 | 52 | 32x10 | 8H7 34 |
| 16 | 49,11 | 50,93 | 55 | 35x10 | 8H7 36 |
| 17 | 52,29 | 54,11 | 58 | 40x10 | 8H7 40 |
| 18 | 55,48 | 57,30 | 61 | 40x10 | 8H7 44 |
| 19 | 58,66 | 60,48 | 64 | 44x10 | 8H7 46 |
| 20 | 61,84 | 63,66 | 68 | 46x10 | 12H7 50 |
| 21 | 65,03 | 66,85 | 72 | 46x10 | 12H7 52 |
| 22 | 68,21 | 70,03 | 74 | 50x10 | 12H7 56 |
| 23 | 71,39 | 73,21 | 76 | 50x10 | 12H7 60 |
| 24 | 74,57 | 76,39 | 80 | 58x10 | 12H7 62 |
| (*)**25 | 77,76 | 79,58 | 84 | 60x10 | 12H7 66 |
| 26 | 80,94 | 82,76 | 86 | 60x10 | 12H7 68 |
| 27 | 84,12 | 85,94 | 90 | 60x10 | 12H7 72 |
| 28 | 87,31 | 89,13 | 93 | 60x10 | 12H7 76 |
| 29 | 90,49 | 92,31 | 96 | 60x10 | 12H7 78 |

Order example:

Pulley AL 70 AT10 / 60 - 0 Hub 110x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension d_Nx l_N _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

Flange: Steel, zinc plated

Drive type

without contraflexure



with contraflexure

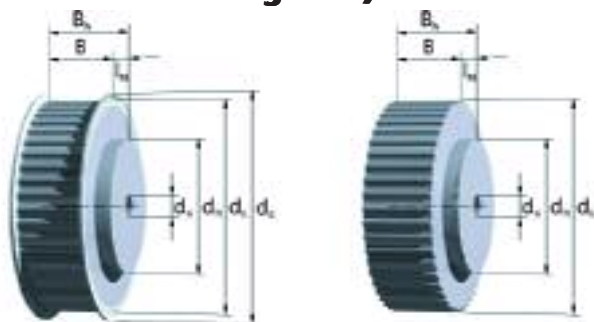


AT 10

| z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] | z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 45 | 141,42 | 143,24 | 147 | 90x10 | 16H7 120 | 80 | 252,83 | 254,65 | 258 | 160x10 | 20H7 219 |
| 46 | 144,60 | 146,42 | 150 | 90x10 | 16H7 122 | 81 | 256,01 | 257,83 | 262 | 160x10 | 20H7 223 |
| 47 | 147,79 | 149,61 | 153 | 90x10 | 16H7 122 | 82 | 259,19 | 261,01 | 265 | 160x10 | 20H7 225 |
| 48 | 150,97 | 152,79 | 156 | 95x10 | 16H7 124 | 83 | 262,38 | 264,20 | 268 | 160x10 | 20H7 229 |
| 49 | 154,15 | 155,97 | 160 | 95x10 | 16H7 126 | 84 | 265,56 | 267,38 | 271 | 160x10 | 20H7 231 |
| 50 | 157,33 | 159,15 | 163 | 95x10 | 16H7 130 | 85 | 268,74 | 270,56 | 274 | 160x10 | 20H7 235 |
| 51 | 160,52 | 162,34 | 166 | 95x10 | 16H7 134 | 86 | 271,93 | 273,75 | 277 | 160x10 | 20H7 239 |
| 52 | 163,70 | 165,52 | 169 | 110x10 | 16H7 136 | 87 | 275,11 | 276,93 | 281 | 160x10 | 20H7 241 |
| 53 | 166,88 | 168,70 | 172 | 110x10 | 16H7 140 | 88 | 278,29 | 280,11 | 284 | 160x10 | 20H7 245 |
| 54 | 170,07 | 171,89 | 176 | 110x10 | 16H7 144 | 89 | 281,48 | 283,30 | 287 | 160x10 | 20H7 247 |
| 55 | 173,25 | 175,07 | 179 | 110x10 | 16H7 146 | 90 | 284,66 | 286,48 | 290 | 160x10 | 20H7 251 |
| 56 | 176,43 | 178,25 | 182 | 110x10 | 16H7 150 | 91 | 287,84 | 289,66 | 293 | 160x10 | 20H7 255 |
| 57 | 179,62 | 181,44 | 185 | 110x10 | 16H7 152 | 92 | 291,03 | 292,85 | 296 | 160x10 | 20H7 257 |
| 58 | 182,80 | 184,62 | 188 | 110x10 | 16H7 156 | 93 | 294,21 | 296,03 | 300 | 160x10 | 20H7 261 |
| 59 | 185,98 | 187,80 | 191 | 110x10 | 16H7 160 | 94 | 297,39 | 299,21 | 302 | 160x10 | 20H7 263 |
| 60 | 189,17 | 190,99 | 195 | 110x10 | 16H7 162 | 95 | 300,57 | 302,39 | 306 | 160x10 | 24H7 267 |
| 61 | 192,35 | 194,17 | 198 | 110x10 | 16H7 164 | 96 | 303,76 | 305,58 | 310 | 180x10 | 24H7 269 |
| 62 | 195,53 | 197,35 | 201 | 110x10 | 16H7 166 | 97 | 306,94 | 308,76 | 312 | 180x10 | 24H7 273 |
| 63 | 198,72 | 200,54 | 204 | 140x10 | 16H7 170 | 98 | 310,12 | 311,94 | 315 | 180x10 | 24H7 279 |
| 64 | 201,90 | 203,72 | 207 | 140x10 | 16H7 171 | 99 | 313,31 | 315,13 | 318 | 180x10 | 24H7 283 |
| 65 | 205,08 | 206,90 | 210 | 140x10 | 16H7 174 | 100 | 316,49 | 318,31 | 322 | 180x10 | 24H7 285 |
| 66 | 208,26 | 210,08 | 214 | 140x10 | 16H7 175 | 101 | 319,67 | 321,49 | 325 | 180x10 | 24H7 289 |
| 67 | 211,45 | 213,27 | 217 | 140x10 | 16H7 177 | 102 | 322,86 | 324,68 | 329 | 180x10 | 24H7 293 |
| 68 | 214,63 | 216,45 | 220 | 140x10 | 16H7 181 | 103 | 326,04 | 327,86 | 332 | 180x10 | 24H7 295 |
| 69 | 217,81 | 219,63 | 223 | 140x10 | 16H7 185 | 104 | 329,22 | 331,04 | 335 | 180x10 | 24H7 299 |
| 70 | 221,00 | 222,82 | 226 | 140x10 | 16H7 187 | 105 | 332,41 | 334,23 | 338 | 180x10 | 24H7 301 |
| 71 | 224,18 | 226,00 | 230 | 140x10 | 16H7 191 | 106 | 335,59 | 337,41 | 341 | 180x10 | 24H7 305 |
| 72 | 227,36 | 229,18 | 233 | 140x10 | 20H7 193 | 107 | 338,77 | 340,59 | 344 | 180x10 | 24H7 309 |
| 73 | 230,55 | 232,37 | 236 | 140x10 | 20H7 197 | 108 | 341,95 | 343,77 | 348 | 180x10 | 24H7 311 |
| 74 | 233,73 | 235,55 | 239 | 140x10 | 20H7 201 | 109 | 345,14 | 346,96 | 351 | 180x10 | 24H7 315 |
| 75 | 236,91 | 238,73 | 242 | 140x10 | 20H7 203 | 110 | 348,32 | 350,14 | 354 | 180x10 | 24H7 317 |
| 76 | 240,10 | 241,92 | 246 | 140x10 | 20H7 207 | 111 | 351,50 | 353,32 | 357 | 180x10 | 24H7 321 |
| 77 | 243,28 | 245,10 | 249 | 160x10 | 20H7 209 | 112 | 354,69 | 356,51 | 360 | 180x10 | 24H7 323 |
| 78 | 246,46 | 248,28 | 252 | 160x10 | 20H7 213 | 113 | 357,87 | 359,69 | 363 | 180x10 | 24H7 327 |
| 79 | 249,64 | 251,46 | 255 | 160x10 | 20H7 215 | 114 | 361,05 | 362,87 | 367 | 180x10 | 24H7 330 |

Synchronising pulleys, AT profile

AT 20 (also for ATN timing belts)



Order example:

Pulley AL 70 AT20 / 60 - 0 Hub 140x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

Flange: Steel, zinc plated

| | | | | | |
|-----------------|------------|----|----|----|-----|
| Belt width | b [mm] | 32 | 50 | 75 | 100 |
| Pulley width | B [mm] | 40 | 60 | 85 | 110 |
| for ATN system: | B [mm] | - | 60 | 85 | 110 |
| Total width | B_N [mm] | 50 | 70 | 95 | 120 |

Drive type

without contraflexure



with contraflexure



In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure; (*) ATN timing belt $z_{min} = 20$

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 50$ mm (ATN: $\varnothing 125$) running on the back of the belt $\varnothing 120$ mm

| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-------|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| *18 | 111,77 | 114,59 | 121 | 70x10 | 12H7 | 86 |
| 19 | 118,14 | 120,96 | 128 | 80x10 | 12H7 | 93 |
| (*)20 | 124,50 | 127,32 | 134 | 90x10 | 16H7 | 100 |
| 21 | 130,87 | 133,69 | 140 | 90x10 | 16H7 | 105 |
| 22 | 137,24 | 140,06 | 147 | 90x10 | 16H7 | 112 |
| 23 | 143,60 | 146,42 | 153 | 90x10 | 16H7 | 118 |
| 24 | 149,97 | 152,79 | 160 | 95x10 | 16H7 | 125 |
| **25 | 156,33 | 159,15 | 166 | 95x10 | 16H7 | 131 |
| 26 | 162,70 | 165,52 | 172 | 95x10 | 16H7 | 137 |
| 27 | 169,07 | 171,89 | 179 | 110x10 | 16H7 | 144 |
| 28 | 175,43 | 178,25 | 185 | 110x10 | 16H7 | 150 |
| 29 | 181,80 | 184,62 | 192 | 110x10 | 16H7 | 156 |

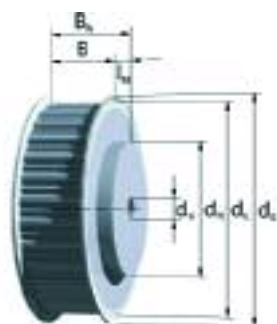
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| 30 | 188,17 | 190,99 | 198 | 110x10 | 16H7 | 163 |
| 31 | 194,53 | 197,35 | 204 | 110x10 | 16H7 | 169 |
| 32 | 200,90 | 203,72 | 210 | 110x10 | 16H7 | 175 |
| 33 | 207,26 | 210,08 | 217 | 110x10 | 16H7 | 182 |
| 34 | 213,63 | 216,45 | 223 | 110x10 | 16H7 | 188 |
| 35 | 220,00 | 222,82 | 229 | 110x10 | 16H7 | 195 |
| 36 | 226,36 | 229,18 | 236 | 110x10 | 18H7 | 201 |
| 37 | 232,73 | 235,55 | 242 | 110x10 | 18H7 | 207 |
| 38 | 239,10 | 241,92 | 249 | 110x10 | 18H7 | 214 |
| 39 | 245,46 | 248,28 | 255 | 110x10 | 18H7 | 220 |
| 40 | 251,83 | 254,65 | 261 | 110x10 | 18H7 | 226 |
| 41 | 258,19 | 261,01 | 268 | 130x10 | 18H7 | 233 |
| 42 | 264,56 | 267,38 | 274 | 130x10 | 18H7 | 239 |
| 43 | 270,93 | 273,75 | 280 | 130x10 | 18H7 | 245 |
| 44 | 277,29 | 280,11 | 287 | 130x10 | 18H7 | 252 |

AT 20

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 45 | 283,66 | 286,48 | 293 | 130x10 | 18H7 | 258 | 80 | 506,48 | 509,30 | 516 | 200x10 | 30H7 | 476 |
| 46 | 290,03 | 292,85 | 300 | 130x10 | 18H7 | 265 | 81 | 512,84 | 515,66 | 522 | 200x10 | 30H7 | 482 |
| 47 | 296,39 | 299,21 | 306 | 130x10 | 18H7 | 271 | 82 | 519,21 | 522,03 | 529 | 200x10 | 30H7 | 489 |
| 48 | 302,76 | 305,58 | 312 | 130x10 | 18H7 | 278 | 83 | 525,57 | 528,39 | 535 | 200x10 | 30H7 | 495 |
| 49 | 309,12 | 311,94 | 319 | 140x10 | 20H7 | 284 | 84 | 531,94 | 534,76 | 541 | 200x10 | 30H7 | 501 |
| 50 | 315,49 | 318,31 | 325 | 140x10 | 20H7 | 290 | 85 | 538,31 | 541,13 | 548 | 200x10 | 30H7 | 503 |
| 51 | 312,86 | 324,68 | 331 | 140x10 | 20H7 | 296 | 86 | 544,67 | 547,49 | 554 | 200x10 | 30H7 | 509 |
| 52 | 328,22 | 331,04 | 338 | 140x10 | 20H7 | 303 | 87 | 551,04 | 553,86 | 561 | 200x10 | 30H7 | 516 |
| 53 | 334,59 | 337,41 | 344 | 140x10 | 20H7 | 310 | 88 | 557,41 | 560,23 | 567 | 200x10 | 30H7 | 522 |
| 54 | 340,95 | 343,77 | 350 | 140x10 | 20H7 | 315 | 89 | 563,77 | 566,59 | 573 | 200x10 | 30H7 | 528 |
| 55 | 347,32 | 350,14 | 357 | 140x10 | 20H7 | 322 | 90 | 570,14 | 572,96 | 580 | 200x10 | 30H7 | 535 |
| 56 | 353,69 | 356,51 | 363 | 140x10 | 20H7 | 328 | 91 | 576,50 | 579,32 | 586 | 200x10 | 30H7 | 541 |
| 57 | 360,05 | 362,87 | 370 | 140x10 | 20H7 | 335 | 92 | 582,87 | 585,69 | 592 | 200x10 | 30H7 | 548 |
| 58 | 366,42 | 396,24 | 376 | 140x10 | 20H7 | 341 | 93 | 589,24 | 592,06 | 599 | 200x10 | 30H7 | 554 |
| 59 | 372,79 | 375,61 | 382 | 140x10 | 20H7 | 347 | 94 | 595,60 | 598,42 | 605 | 200x10 | 30H7 | 560 |
| 60 | 379,15 | 381,97 | 389 | 140x10 | 20H7 | 354 | 95 | 601,97 | 604,79 | 611 | 200x10 | 40H7 | 566 |
| 61 | 385,52 | 388,34 | 395 | 140x10 | 20H7 | 360 | 96 | 608,33 | 611,15 | 618 | 200x10 | 40H7 | 573 |
| 62 | 391,88 | 394,70 | 401 | 140x10 | 20H7 | 366 | 97 | 614,70 | 617,52 | 624 | 200x10 | 40H7 | 579 |
| 63 | 398,25 | 401,07 | 408 | 140x10 | 20H7 | 373 | 98 | 621,07 | 623,89 | 631 | 200x10 | 40H7 | 586 |
| 64 | 404,62 | 407,44 | 414 | 140x10 | 20H7 | 379 | 99 | 627,43 | 630,25 | 637 | 200x10 | 40H7 | 592 |
| 65 | 410,98 | 413,80 | 420 | 140x10 | 20H7 | 385 | 100 | 633,80 | 636,62 | 643 | 200x10 | 40H7 | 598 |
| 66 | 417,35 | 420,17 | 427 | 140x10 | 20H7 | 392 | 101 | 640,17 | 642,99 | 650 | 200x10 | 40H7 | 605 |
| 67 | 423,72 | 426,54 | 433 | 140x10 | 20H7 | 398 | 102 | 646,53 | 649,35 | 656 | 200x10 | 40H7 | 611 |
| 68 | 430,08 | 432,90 | 440 | 140x10 | 20H7 | 405 | 103 | 652,90 | 655,72 | 662 | 200x10 | 40H7 | 617 |
| 69 | 436,45 | 439,27 | 446 | 140x10 | 20H7 | 406 | 104 | 659,26 | 662,08 | 669 | 200x10 | 40H7 | 624 |
| 70 | 442,81 | 445,63 | 452 | 140x10 | 20H7 | 412 | 105 | 665,63 | 668,45 | 675 | 200x10 | 40H7 | 630 |
| 71 | 449,18 | 452,00 | 459 | 140x10 | 20H7 | 419 | 106 | 672,00 | 674,82 | 681 | 200x10 | 40H7 | 636 |
| 72 | 455,55 | 458,37 | 465 | 140x10 | 20H7 | 425 | 107 | 678,36 | 681,18 | 688 | 200x10 | 40H7 | 643 |
| 73 | 461,91 | 464,73 | 471 | 160x10 | 30H7 | 431 | 108 | 684,73 | 687,55 | 694 | 200x10 | 40H7 | 649 |
| 74 | 468,28 | 471,10 | 478 | 160x10 | 30H7 | 438 | 109 | 691,10 | 693,92 | 701 | 200x10 | 40H7 | 656 |
| 75 | 474,64 | 477,46 | 484 | 160x10 | 30H7 | 444 | 110 | 697,46 | 700,28 | 707 | 200x10 | 40H7 | 662 |
| 76 | 481,01 | 483,83 | 490 | 160x10 | 30H7 | 450 | 111 | 703,83 | 706,65 | 713 | 200x10 | 40H7 | 663 |
| 77 | 487,38 | 490,20 | 497 | 160x10 | 30H7 | 457 | 112 | 710,19 | 713,01 | 720 | 200x10 | 40H7 | 670 |
| 78 | 493,74 | 496,56 | 503 | 160x10 | 30H7 | 463 | 113 | 716,56 | 719,38 | 726 | 200x10 | 40H7 | 676 |
| 79 | 500,11 | 502,93 | 510 | 160x10 | 30H7 | 470 | 114 | 722,93 | 725,75 | 732 | 200x10 | 40H7 | 682 |

Synchronising pulleys, ATP profile

ATP 10



Standard version with flanges

| | | | | | | | |
|--------------|---------------------|----|----|----|----|----|-----|
| Belt width | b [mm] | 16 | 25 | 32 | 50 | 75 | 100 |
| Pulley width | B [mm] | 23 | 32 | 40 | 60 | 85 | 110 |
| Total width | B _N [mm] | 33 | 42 | 50 | 70 | 95 | 120 |

The stock pulleys with standard dimensioning are marked in **blue**

In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d₀ = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø50 mm

running on the back of the belt Ø120mm

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] |
|------|------------------------|------------------------|------------------------|--|---|
| *15 | 46,15 | 45,93 | 52 | 32x10 | 8H7 19 |
| 16 | 49,33 | 49,11 | 55 | 35x10 | 8H7 23 |
| 17 | 52,51 | 52,29 | 58 | 40x10 | 10H7 26 |
| 18 | 55,70 | 55,48 | 61 | 40x10 | 10H7 29 |
| 19 | 58,88 | 58,66 | 64 | 44x10 | 10H7 32 |
| 20 | 62,06 | 61,84 | 68 | 46x10 | 12H7 34 |
| 21 | 65,25 | 65,03 | 72 | 46x10 | 12H7 35 |
| 22 | 68,43 | 68,21 | 74 | 50x10 | 12H7 39 |
| 23 | 71,61 | 71,39 | 78 | 50x10 | 12H7 42 |
| 24 | 74,79 | 74,57 | 80 | 58x10 | 12H7 45 |
| **25 | 77,98 | 77,76 | 84 | 60x10 | 12H7 48 |
| 26 | 81,16 | 80,94 | 87 | 60x10 | 12H7 51 |
| 27 | 84,34 | 84,12 | 90 | 60x10 | 12H7 55 |
| 28 | 87,53 | 87,31 | 93 | 60x10 | 12H7 58 |
| 29 | 90,71 | 90,49 | 96 | 60x10 | 12H7 61 |

Order example:

Pulley AL 50 ATP10 / 60 - 2 Hub 110x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension d_Nx l_N _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlZnMgCu0.5 - F 48

Flange: Steel, zinc plated

Drive type

without contraflexure



with contraflexure

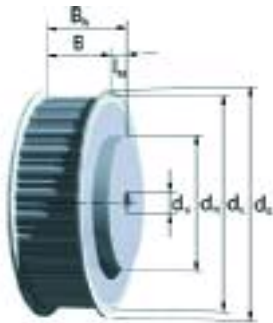


ATP 10

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 45 | 141,64 | 143,24 | 147 | 90x10 | 16H7 112 | 80 | 253,05 | 254,65 | 258 | 160x10 | 20H7 223 |
| 46 | 144,82 | 146,42 | 150 | 90x10 | 16H7 115 | 81 | 256,23 | 257,83 | 262 | 160x10 | 20H7 226 |
| 47 | 148,01 | 149,61 | 153 | 90x10 | 16H7 118 | 82 | 259,41 | 261,01 | 265 | 160x10 | 20H7 230 |
| 48 | 151,19 | 152,79 | 156 | 95x10 | 16H7 121 | 83 | 262,60 | 264,20 | 268 | 160x10 | 20H7 233 |
| 49 | 154,37 | 155,97 | 160 | 95x10 | 16H7 125 | 84 | 265,78 | 267,38 | 271 | 160x10 | 20H7 236 |
| 50 | 157,56 | 159,15 | 163 | 95x10 | 16H7 128 | 85 | 268,96 | 270,56 | 274 | 160x10 | 20H7 239 |
| 51 | 160,74 | 162,34 | 166 | 95x10 | 16H7 132 | 86 | 272,15 | 273,75 | 277 | 160x10 | 20H7 242 |
| 52 | 163,92 | 165,52 | 169 | 95x10 | 16H7 134 | 87 | 275,33 | 276,93 | 281 | 160x10 | 20H7 245 |
| 53 | 167,10 | 168,70 | 172 | 95x10 | 16H7 137 | 88 | 278,51 | 280,11 | 284 | 160x10 | 20H7 249 |
| 54 | 170,29 | 171,89 | 176 | 110x10 | 16H7 141 | 89 | 281,70 | 283,30 | 287 | 160x10 | 20H7 252 |
| 55 | 173,47 | 175,07 | 179 | 110x10 | 16H7 144 | 90 | 284,88 | 286,48 | 290 | 160x10 | 20H7 255 |
| 56 | 176,65 | 178,25 | 182 | 110x10 | 16H7 147 | 91 | 288,06 | 289,66 | 293 | 160x10 | 20H7 258 |
| 57 | 179,84 | 181,44 | 185 | 110x10 | 16H7 150 | 92 | 291,25 | 292,85 | 296 | 160x10 | 20H7 261 |
| 58 | 183,02 | 184,62 | 188 | 110x10 | 16H7 153 | 93 | 294,43 | 296,03 | 300 | 160x10 | 20H7 263 |
| 59 | 186,20 | 187,80 | 191 | 110x10 | 16H7 156 | 94 | 297,61 | 299,21 | 302 | 160x10 | 20H7 268 |
| 60 | 189,39 | 190,99 | 195 | 110x10 | 16H7 160 | 95 | 300,79 | 302,39 | 306 | 160x10 | 24H7 271 |
| 61 | 192,57 | 194,17 | 198 | 110x10 | 16H7 163 | 96 | 303,98 | 305,58 | 310 | 180x10 | 24H7 274 |
| 62 | 195,75 | 197,35 | 201 | 110x10 | 16H7 166 | 97 | 307,16 | 308,76 | 312 | 180x10 | 24H7 277 |
| 63 | 198,94 | 200,54 | 204 | 140x10 | 16H7 169 | 98 | 310,34 | 311,94 | 315 | 180x10 | 24H7 281 |
| 64 | 202,12 | 203,72 | 207 | 140x10 | 16H7 172 | 99 | 313,53 | 315,13 | 318 | 180x10 | 24H7 284 |
| 65 | 205,30 | 206,90 | 210 | 140x10 | 16H7 176 | 100 | 316,71 | 318,31 | 322 | 180x10 | 24H7 287 |
| 66 | 208,48 | 210,08 | 214 | 140x10 | 16H7 179 | 101 | 319,89 | 321,49 | 325 | 180x10 | 24H7 290 |
| 67 | 211,67 | 213,27 | 217 | 140x10 | 16H7 182 | 102 | 323,08 | 324,68 | 329 | 180x10 | 24H7 293 |
| 68 | 214,85 | 216,45 | 220 | 140x10 | 16H7 185 | 103 | 326,26 | 327,86 | 332 | 180x10 | 24H7 297 |
| 69 | 218,03 | 219,63 | 223 | 140x10 | 16H7 188 | 104 | 329,44 | 331,04 | 335 | 180x10 | 24H7 300 |
| 70 | 221,22 | 222,82 | 226 | 140x10 | 16H7 191 | 105 | 332,63 | 334,23 | 338 | 180x10 | 24H7 303 |
| 71 | 224,40 | 226,00 | 230 | 140x10 | 16H7 196 | 106 | 335,81 | 337,41 | 341 | 180x10 | 24H7 306 |
| 72 | 227,58 | 229,18 | 233 | 140x10 | 16H7 198 | 107 | 338,99 | 340,59 | 344 | 180x10 | 24H7 309 |
| 73 | 230,77 | 232,37 | 236 | 140x10 | 16H7 201 | 108 | 342,17 | 343,77 | 348 | 180x10 | 24H7 312 |
| 74 | 233,95 | 235,55 | 239 | 140x10 | 20H7 204 | 109 | 345,36 | 346,96 | 351 | 180x10 | 24H7 316 |
| 75 | 237,13 | 238,73 | 242 | 140x10 | 20H7 207 | 110 | 348,54 | 350,14 | 354 | 180x10 | 24H7 319 |
| 76 | 240,32 | 241,92 | 246 | 140x10 | 20H7 211 | 111 | 351,72 | 353,32 | 357 | 180x10 | 24H7 322 |
| 77 | 243,50 | 245,10 | 249 | 160x10 | 20H7 214 | 112 | 354,91 | 356,51 | 360 | 180x10 | 24H7 325 |
| 78 | 246,68 | 248,28 | 252 | 160x10 | 20H7 217 | 113 | 358,09 | 359,69 | 363 | 180x10 | 24H7 328 |
| 79 | 249,87 | 251,46 | 255 | 160x10 | 20H7 220 | 114 | 361,27 | 362,87 | 367 | 180x10 | 24H7 332 |

Synchronising pulleys, ATP profile

ATP 15



Standard version with flanges

| | | | | | | | |
|--------------|---------------------|----|----|----|----|-----|-----|
| Belt width | b [mm] | 25 | 32 | 50 | 75 | 100 | 150 |
| Pulley width | B [mm] | 32 | 40 | 60 | 85 | 110 | 160 |
| Total width | B _N [mm] | 42 | 50 | 70 | 95 | 120 | 170 |

The stock pulleys with standard dimensioning are marked in **blue**
In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_k^k = flange diameter
- d_B^B = diameter of pre-bore
- d_{max}^V = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min}^{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø100 mm running on the back of the belt Ø160mm

Order example:

Pulley AL 50 ATP15 / 40 - 0 Hub 80x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension d_NxI_N _____

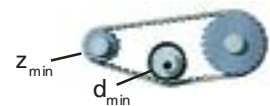
Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlZnMgCu0.5 - F 48
 Flange: Steel, zinc plated

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x I _N [mm] | Bore d _V d _{max} [mm] |
|-----|------------------------|------------------------|------------------------|--|---|
| *20 | 93,39 | 95,49 | 100 | 46x10 | 12H7 64 |
| 21 | 98,17 | 100,27 | 106 | 46x10 | 12H7 71 |
| 22 | 102,94 | 105,04 | 112 | 50x10 | 12H7 74 |
| 23 | 107,72 | 109,82 | 115 | 50x10 | 12H7 77 |
| 24 | 112,49 | 114,59 | 118 | 50x10 | 12H7 83 |
| 25 | 117,27 | 119,37 | 125 | 50x10 | 12H7 90 |
| 26 | 122,04 | 124,14 | 128 | 50x10 | 12H7 93 |
| 27 | 126,82 | 128,92 | 134 | 50x10 | 12H7 99 |
| 28 | 131,59 | 133,69 | 137 | 58x10 | 12H7 102 |
| 29 | 136,36 | 138,46 | 144 | 58x10 | 12H7 109 |

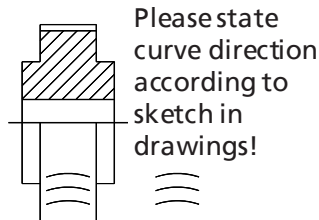
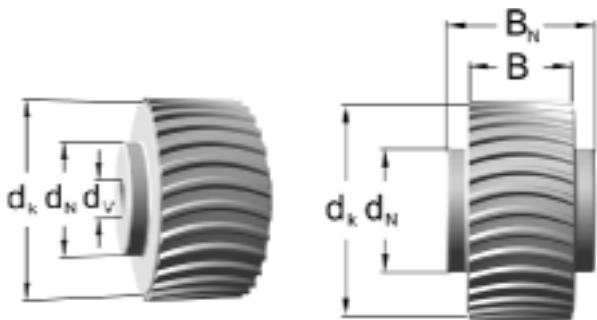
| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x I _N [mm] | Bore d _V d _{max} [mm] |
|------|------------------------|------------------------|------------------------|--|---|
| **30 | 141,14 | 143,24 | 147 | 60x10 | 12H7 112 |
| 31 | 145,91 | 148,01 | 153 | 60x10 | 12H7 118 |
| 32 | 150,69 | 152,79 | 156 | 65x10 | 12H7 121 |
| 33 | 155,46 | 157,56 | 163 | 65x10 | 12H7 128 |
| 34 | 160,24 | 162,34 | 166 | 65x10 | 16H7 131 |
| 35 | 165,01 | 167,11 | 172 | 65x10 | 16H7 137 |
| 36 | 169,79 | 171,89 | 176 | 70x10 | 16H7 141 |
| 37 | 174,56 | 176,66 | 182 | 70x10 | 16H7 147 |
| 38 | 179,34 | 181,44 | 185 | 70x10 | 16H7 150 |
| 39 | 184,11 | 186,21 | 191 | 70x10 | 16H7 156 |
| 40 | 188,89 | 190,99 | 195 | 80x10 | 16H7 160 |
| 41 | 193,66 | 195,76 | 201 | 110x10 | 16H7 166 |
| 42 | 198,44 | 200,54 | 204 | 110x10 | 16H7 169 |
| 43 | 203,21 | 205,31 | 210 | 140x10 | 16H7 176 |
| 44 | 207,98 | 210,08 | 214 | 140x10 | 16H7 179 |

ATP 15

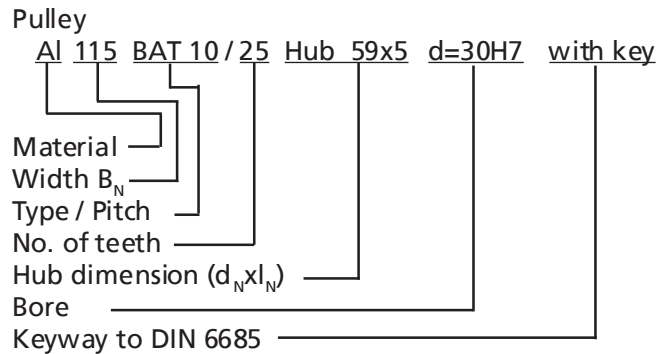
| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub | | Bore | | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub | | Bore | |
|----|------------------------|------------------------|------------------------|---|---|------------------------|--------------------------|-----|------------------------|------------------------|------------------------|---|---|------------------------|--------------------------|
| | | | | d _N x l _N [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] | | | | | d _N x l _N [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] |
| 45 | 212,76 | 214,86 | 220 | 140x10 | 16H7 | 185 | | 80 | 379,87 | 381,97 | 386 | 160x10 | 24H7 | 348 | |
| 46 | 217,53 | 219,63 | 223 | 140x10 | 16H7 | 188 | | 81 | 384,65 | 386,75 | 391 | 160x10 | 24H7 | 353 | |
| 47 | 222,31 | 224,41 | 230 | 140x10 | 16H7 | 195 | | 82 | 389,42 | 391,52 | 396 | 160x10 | 24H7 | 358 | |
| 48 | 227,08 | 229,18 | 234 | 140x10 | 16H7 | 198 | | 83 | 394,20 | 396,30 | 401 | 160x10 | 24H7 | 363 | |
| 49 | 231,86 | 233,96 | 239 | 140x10 | 16H7 | 204 | | 84 | 398,97 | 401,07 | 405 | 160x10 | 24H7 | 367 | |
| 50 | 236,63 | 238,73 | 242 | 140x10 | 16H7 | 207 | | 85 | 403,75 | 405,85 | 410 | 200x10 | 30H7 | 372 | |
| 51 | 241,41 | 243,51 | 249 | 140x10 | 16H7 | 214 | | 86 | 408,52 | 410,62 | 415 | 200x10 | 30H7 | 377 | |
| 52 | 246,18 | 248,28 | 252 | 140x10 | 16H7 | 217 | | 87 | 413,29 | 415,39 | 420 | 200x10 | 30H7 | 382 | |
| 53 | 250,96 | 253,06 | 258 | 160x10 | 20H7 | 223 | | 88 | 418,07 | 420,17 | 425 | 200x10 | 30H7 | 387 | |
| 54 | 255,73 | 257,83 | 262 | 160x10 | 20H7 | 226 | | 89 | 422,84 | 424,94 | 429 | 200x10 | 30H7 | 391 | |
| 55 | 260,51 | 262,61 | 268 | 160x10 | 20H7 | 233 | | 90 | 427,62 | 429,72 | 434 | 200x10 | 30H7 | 396 | |
| 56 | 265,28 | 267,38 | 271 | 160x10 | 20H7 | 236 | | 91 | 432,39 | 434,49 | 440 | 200x10 | 30H7 | 401 | |
| 57 | 270,05 | 272,15 | 277 | 160x10 | 20H7 | 242 | | 92 | 437,17 | 439,27 | 444 | 200x10 | 30H7 | 406 | |
| 58 | 274,83 | 276,93 | 281 | 160x10 | 20H7 | 245 | | 93 | 441,94 | 444,04 | 448 | 200x10 | 30H7 | 410 | |
| 59 | 279,60 | 281,70 | 287 | 160x10 | 20H7 | 252 | | 94 | 446,72 | 448,82 | 453 | 200x10 | 30H7 | 415 | |
| 60 | 284,38 | 286,48 | 290 | 160x10 | 20H7 | 255 | | 95 | 451,49 | 453,59 | 459 | 200x10 | 30H7 | 420 | |
| 61 | 289,15 | 291,25 | 296 | 160x10 | 20H7 | 261 | | 96 | 456,27 | 458,37 | 463 | 200x10 | 30H7 | 425 | |
| 62 | 293,93 | 296,03 | 300 | 160x10 | 20H7 | 265 | | 97 | 461,04 | 463,14 | 468 | 200x10 | 30H7 | 430 | |
| 63 | 298,70 | 300,80 | 306 | 160x10 | 20H7 | 271 | | 98 | 465,82 | 467,92 | 472 | 200x10 | 30H7 | 434 | |
| 64 | 303,48 | 305,58 | 310 | 160x10 | 24H7 | 274 | | 99 | 470,59 | 472,69 | 478 | 200x10 | 30H7 | 439 | |
| 65 | 308,25 | 310,35 | 315 | 160x10 | 24H7 | 281 | | 100 | 475,36 | 477,46 | 482 | 200x10 | 30H7 | 444 | |
| 66 | 313,03 | 315,13 | 319 | 160x10 | 24H7 | 284 | | 101 | 480,14 | 482,24 | 487 | 200x10 | 30H7 | 449 | |
| 67 | 317,80 | 319,90 | 325 | 160x10 | 24H7 | 290 | | 102 | 484,91 | 487,01 | 491 | 200x10 | 30H7 | 453 | |
| 68 | 322,58 | 324,68 | 329 | 160x10 | 24H7 | 293 | | 103 | 489,69 | 491,79 | 497 | 200x10 | 30H7 | 458 | |
| 69 | 327,35 | 329,45 | 335 | 160x10 | 24H7 | 300 | | 104 | 494,46 | 496,56 | 501 | 200x10 | 30H7 | 463 | |
| 70 | 332,13 | 334,23 | 338 | 160x10 | 24H7 | 303 | | 105 | 499,24 | 501,34 | 506 | 200x10 | 30H7 | 468 | |
| 71 | 336,90 | 339,00 | 344 | 160x10 | 24H7 | 309 | | 106 | 504,01 | 506,11 | 511 | 200x10 | 30H7 | 473 | |
| 72 | 341,67 | 343,77 | 348 | 160x10 | 24H7 | 314 | | 107 | 508,79 | 510,89 | 516 | 200x10 | 30H7 | 477 | |
| 73 | 346,45 | 348,55 | 354 | 160x10 | 24H7 | 319 | | 108 | 513,56 | 515,66 | 520 | 200x10 | 30H7 | 482 | |
| 74 | 351,22 | 353,32 | 357 | 160x10 | 24H7 | 322 | | 109 | 518,34 | 520,44 | 525 | 200x10 | 30H7 | 487 | |
| 75 | 356,00 | 358,10 | 363 | 160x10 | 24H7 | 328 | | 110 | 523,11 | 525,21 | 530 | 200x10 | 30H7 | 492 | |
| 76 | 360,77 | 362,87 | 367 | 160x10 | 24H7 | 332 | | 111 | 527,89 | 529,99 | 535 | 200x10 | 30H7 | 496 | |
| 77 | 365,55 | 367,65 | 372 | 160x10 | 24H7 | 334 | | 112 | 532,66 | 534,76 | 539 | 200x10 | 30H7 | 501 | |
| 78 | 370,32 | 372,42 | 377 | 160x10 | 24H7 | 339 | | 113 | 537,44 | 539,54 | 544 | 200x10 | 30H7 | 506 | |
| 79 | 375,10 | 377,20 | 382 | 160x10 | 24H7 | 344 | | 114 | 542,21 | 544,31 | 549 | 200x10 | 30H7 | 512 | |

Synchronising pulleys, self-guiding profiles

BAT 10



Order example:



Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

| | | | | | | |
|--------------|------------|----|----|----|----|-----|
| Belt width | b [mm] | 25 | 32 | 50 | 75 | 100 |
| Pulley width | B [mm] | 30 | 35 | 55 | 80 | 105 |
| Total width | B_N [mm] | 40 | 47 | 65 | 90 | 115 |

The stock pulleys with standard dimensioning are marked in blue

Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 80$ mm running on the back of the belt $\varnothing 120$ mm

Drive type

without contraflexure



with contraflexure



| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|------------|------------|------------|---------------------------|-----------------|----------------|
| *20 | 61,84 | 63,66 | 67 | 46x5 | 12H7 | 50 |
| 21 | 65,03 | 66,85 | 70 | 50x5 | 12H7 | 52 |
| 22 | 68,21 | 70,03 | 74 | 53x5 | 12H7 | 56 |
| 23 | 71,39 | 73,21 | 76 | 56x5 | 12H7 | 60 |
| 24 | 74,57 | 76,39 | 80 | 57x5 | 12H7 | 62 |

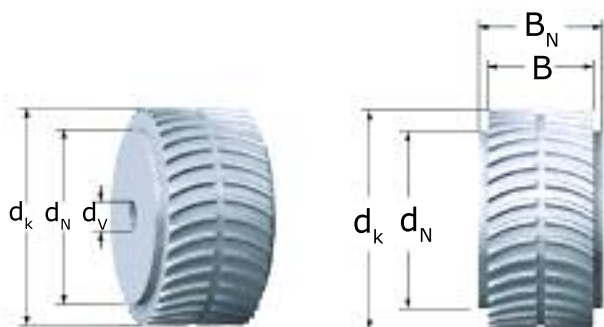
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|------|------------|------------|------------|---------------------------|-----------------|----------------|
| **25 | 77,76 | 79,58 | 82 | 59x5 | 12H7 | 66 |
| 26 | 80,94 | 82,76 | 86 | 62x5 | 12H7 | 68 |
| 27 | 84,12 | 85,94 | 90 | 64x5 | 12H7 | 72 |
| 28 | 87,31 | 89,13 | 93 | 67x5 | 12H7 | 76 |
| 29 | 90,49 | 92,31 | 96 | 70x5 | 12H7 | 78 |
| 30 | 93,67 | 95,49 | 99 | 73x5 | 12H7 | 82 |
| 31 | 96,86 | 98,68 | 102 | 77x5 | 12H7 | 84 |
| 32 | 100,04 | 101,86 | 105 | 80x5 | 12H7 | 88 |
| 33 | 103,22 | 105,04 | 109 | 83x5 | 12H7 | 88 |
| 34 | 106,41 | 108,23 | 112 | 86x5 | 12H7 | 92 |

BAT 10

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 35 | 109,59 | 111,41 | 115 | 90x5 | 16H7 | 96 | 75 | 236,91 | 238,73 | 258 | 216x5 | 20H7 | 203 |
| 36 | 112,77 | 114,59 | 118 | 92x5 | 16H7 | 98 | 76 | 240,10 | 241,92 | 261 | 220x5 | 20H7 | 207 |
| 37 | 115,95 | 117,77 | 121 | 95x5 | 16H7 | 101 | 77 | 243,28 | 245,10 | 265 | 223x5 | 20H7 | 209 |
| 38 | 119,14 | 120,96 | 125 | 99x5 | 16H7 | 104 | 78 | 246,46 | 248,28 | 268 | 226x5 | 20H7 | 213 |
| 39 | 122,32 | 124,14 | 128 | 102x5 | 16H7 | 106 | 79 | 249,64 | 251,46 | 271 | 229x5 | 20H7 | 215 |
| 40 | 125,50 | 127,32 | 131 | 105x5 | 16H7 | 110 | 80 | 252,83 | 254,65 | 258 | 232x5 | 20H7 | 219 |
| 41 | 128,69 | 130,51 | 134 | 108x5 | 16H7 | 110 | 81 | 256,01 | 257,83 | 261 | 236x5 | 20H7 | 223 |
| 42 | 131,87 | 133,69 | 137 | 111x5 | 16H7 | 112 | 82 | 259,19 | 261,01 | 265 | 239x5 | 20H7 | 225 |
| 43 | 135,05 | 136,87 | 140 | 115x5 | 16H7 | 114 | 83 | 262,38 | 264,20 | 268 | 242x5 | 20H7 | 229 |
| 44 | 138,24 | 140,06 | 144 | 118x5 | 16H7 | 118 | 84 | 265,56 | 267,38 | 271 | 245x5 | 20H7 | 231 |
| 45 | 141,42 | 143,24 | 147 | 121x5 | 16H7 | 120 | 85 | 268,74 | 270,56 | 274 | 248x5 | 20H7 | 235 |
| 46 | 144,60 | 146,42 | 150 | 124x5 | 16H7 | 122 | 86 | 271,93 | 273,75 | 277 | 251x5 | 20H7 | 239 |
| 47 | 147,79 | 149,61 | 153 | 127x5 | 16H7 | 122 | 87 | 275,11 | 276,93 | 280 | 255x5 | 20H7 | 241 |
| 48 | 150,97 | 152,79 | 156 | 130x5 | 20H7 | 124 | 88 | 278,29 | 280,11 | 284 | 258x5 | 20H7 | 245 |
| 49 | 154,15 | 155,97 | 160 | 134x5 | 20H7 | 126 | 89 | 281,48 | 283,30 | 287 | 261x5 | 20H7 | 247 |
| 50 | 157,33 | 159,15 | 162 | 137x5 | 20H7 | 130 | 90 | 284,66 | 286,48 | 290 | 264x5 | 20H7 | 251 |
| 51 | 160,52 | 162,34 | 166 | 140x5 | 20H7 | 134 | 91 | 287,84 | 289,66 | 293 | 267x5 | 20H7 | 255 |
| 52 | 163,70 | 165,52 | 169 | 143x5 | 20H7 | 136 | 92 | 291,03 | 292,85 | 296 | 271x5 | 20H7 | 257 |
| 53 | 166,88 | 168,70 | 172 | 146x5 | 20H7 | 140 | 93 | 294,21 | 296,03 | 300 | 274x5 | 20H7 | 261 |
| 54 | 170,07 | 171,89 | 176 | 150x5 | 20H7 | 144 | 94 | 297,39 | 299,21 | 302 | 277x5 | 20H7 | 263 |
| 55 | 173,25 | 175,07 | 178 | 153x5 | 20H7 | 146 | 95 | 300,57 | 302,39 | 306 | 280x5 | 24H7 | 267 |
| 56 | 176,43 | 178,25 | 182 | 156x5 | 20H7 | 150 | 96 | 303,76 | 305,58 | 309 | 283x5 | 24H7 | 269 |
| 57 | 179,62 | 181,44 | 185 | 159x5 | 20H7 | 152 | 97 | 306,94 | 308,76 | 312 | 286x5 | 24H7 | 273 |
| 58 | 182,80 | 184,62 | 188 | 162x5 | 20H7 | 156 | 98 | 310,12 | 311,94 | 315 | 290x5 | 24H7 | 279 |
| 59 | 185,98 | 187,80 | 191 | 165x5 | 20H7 | 160 | 99 | 313,31 | 315,13 | 318 | 293x5 | 24H7 | 283 |
| 60 | 189,17 | 190,99 | 195 | 169x5 | 20H7 | 162 | 100 | 316,49 | 318,31 | 322 | 296x5 | 24H7 | 285 |
| 61 | 192,35 | 194,17 | 198 | 172x5 | 20H7 | 164 | 101 | 319,67 | 321,49 | 325 | 299x5 | 24H7 | 289 |
| 62 | 195,53 | 197,35 | 201 | 175x5 | 20H7 | 166 | 102 | 322,86 | 324,68 | 328 | 302x5 | 24H7 | 293 |
| 63 | 198,72 | 200,54 | 204 | 178x5 | 20H7 | 170 | 103 | 326,04 | 327,86 | 332 | 306x5 | 24H7 | 295 |
| 64 | 201,90 | 203,72 | 207 | 181x5 | 20H7 | 171 | 104 | 329,22 | 331,04 | 335 | 309x5 | 24H7 | 299 |
| 65 | 205,08 | 206,90 | 210 | 185x5 | 20H7 | 174 | 105 | 332,41 | 334,23 | 338 | 312x5 | 24H7 | 301 |
| 66 | 208,26 | 210,08 | 214 | 188x5 | 20H7 | 175 | 106 | 335,59 | 337,41 | 341 | 315x5 | 24H7 | 305 |
| 67 | 211,45 | 213,27 | 217 | 191x5 | 20H7 | 177 | 107 | 338,77 | 340,59 | 344 | 318x5 | 24H7 | 309 |
| 68 | 214,63 | 216,45 | 220 | 194x5 | 20H7 | 181 | 108 | 341,95 | 343,77 | 347 | 321x5 | 24H7 | 311 |
| 69 | 217,81 | 219,63 | 223 | 197x5 | 20H7 | 185 | 109 | 345,14 | 346,96 | 351 | 325x5 | 24H7 | 315 |
| 70 | 221,00 | 222,82 | 226 | 201x5 | 20H7 | 187 | 110 | 348,32 | 350,14 | 354 | 328x5 | 24H7 | 317 |
| 71 | 224,18 | 226,00 | 230 | 204x5 | 20H7 | 191 | 111 | 351,50 | 353,32 | 357 | 331x5 | 24H7 | 321 |
| 72 | 227,36 | 229,18 | 232 | 207x5 | 20H7 | 193 | 112 | 354,69 | 356,51 | 360 | 334x5 | 24H7 | 323 |
| 73 | 230,55 | 232,37 | 236 | 210x5 | 20H7 | 197 | 113 | 357,87 | 359,69 | 363 | 337x5 | 24H7 | 327 |
| 74 | 233,73 | 235,55 | 239 | 213x5 | 20H7 | 201 | 114 | 361,05 | 362,87 | 367 | 341x5 | 24H7 | 330 |

Synchronising pulleys, self-guiding profiles

BATK 10



Order example:

Pulley
 Al 115 BATK 10 / 25 Hub 59x5 d=30H7 with key
 Material —
 Width B_N —
 Type / Pitch —
 No. of teeth —
 Hub dimension (d_Nx l_N) —
 Bore —
 Keyway to DIN 6685 —

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

| | | | | | |
|--------------|---------------------|----|----|----|-----|
| Belt width | b [mm] | 32 | 50 | 75 | 100 |
| Pulley width | B [mm] | 37 | 55 | 80 | 105 |
| Total width | B _N [mm] | 47 | 65 | 90 | 115 |

Other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø80 mm running on the back of the belt Ø120mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore d _v [mm] | Bore d _{max} [mm] |
|-----|---------------------|---------------------|--|--------------------------|----------------------------|
| *20 | 61,84 | 63,66 | 46x5 | 12H7 | 50 |
| 21 | 65,03 | 66,85 | 50x5 | 12H7 | 52 |
| 22 | 68,21 | 70,03 | 53x5 | 12H7 | 56 |
| 23 | 71,39 | 73,21 | 56x5 | 12H7 | 60 |
| 24 | 74,57 | 76,39 | 57x5 | 12H7 | 62 |

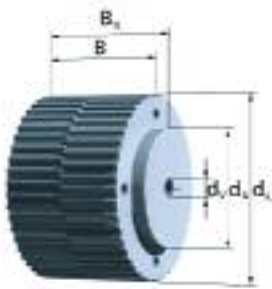
| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore d _v [mm] | Bore d _{max} [mm] |
|------|---------------------|---------------------|--|--------------------------|----------------------------|
| **25 | 77,76 | 79,58 | 59x5 | 12H7 | 66 |
| 26 | 80,94 | 82,76 | 62x5 | 12H7 | 68 |
| 27 | 84,12 | 85,94 | 64x5 | 12H7 | 72 |
| 28 | 87,31 | 89,13 | 67x5 | 12H7 | 76 |
| 29 | 90,49 | 92,31 | 70x5 | 12H7 | 78 |
| 30 | 93,67 | 95,49 | 73x5 | 12H7 | 82 |
| 31 | 96,86 | 98,68 | 77x5 | 12H7 | 84 |
| 32 | 100,04 | 101,86 | 80x5 | 12H7 | 88 |
| 33 | 103,22 | 105,04 | 83x5 | 12H7 | 88 |
| 34 | 106,41 | 108,23 | 86x5 | 12H7 | 92 |

BATK 10

| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore | | z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore | |
|----|------------------------|------------------------|--|----------------|--------------------------|-----|------------------------|------------------------|--|----------------|--------------------------|
| | | | | d _v | d _{max} [mm] | | | | | d _v | d _{max} [mm] |
| 35 | 109,59 | 111,41 | 90x5 | 16H7 | 96 | 75 | 236,91 | 238,73 | 216x5 | 20H7 | 203 |
| 36 | 112,77 | 114,59 | 92x5 | 16H7 | 98 | 76 | 240,10 | 241,92 | 220x5 | 20H7 | 207 |
| 37 | 115,95 | 117,77 | 95x5 | 16H7 | 101 | 77 | 243,28 | 245,10 | 223x5 | 20H7 | 209 |
| 38 | 119,14 | 120,96 | 99x5 | 16H7 | 104 | 78 | 246,46 | 248,28 | 226x5 | 20H7 | 213 |
| 39 | 122,32 | 124,14 | 102x5 | 16H7 | 106 | 79 | 249,64 | 251,46 | 229x5 | 20H7 | 215 |
| 40 | 125,50 | 127,32 | 105x5 | 16H7 | 110 | 80 | 252,83 | 254,65 | 232x5 | 20H7 | 219 |
| 41 | 128,69 | 130,51 | 108x5 | 16H7 | 110 | 81 | 256,01 | 257,83 | 236x5 | 20H7 | 223 |
| 42 | 131,87 | 133,69 | 111x5 | 16H7 | 112 | 82 | 259,19 | 261,01 | 239x5 | 20H7 | 225 |
| 43 | 135,05 | 136,87 | 115x5 | 16H7 | 114 | 83 | 262,38 | 264,20 | 242x5 | 20H7 | 229 |
| 44 | 138,24 | 140,06 | 118x5 | 16H7 | 118 | 84 | 265,56 | 267,38 | 245x5 | 20H7 | 231 |
| 45 | 141,42 | 143,24 | 121x5 | 16H7 | 120 | 85 | 268,74 | 270,56 | 248x5 | 20H7 | 235 |
| 46 | 144,60 | 146,42 | 124x5 | 16H7 | 122 | 86 | 271,93 | 273,75 | 251x5 | 20H7 | 239 |
| 47 | 147,79 | 149,61 | 127x5 | 16H7 | 122 | 87 | 275,11 | 276,93 | 255x5 | 20H7 | 241 |
| 48 | 150,97 | 152,79 | 130x5 | 20H7 | 124 | 88 | 278,29 | 280,11 | 258x5 | 20H7 | 245 |
| 49 | 154,15 | 155,97 | 134x5 | 20H7 | 126 | 89 | 281,48 | 283,30 | 261x5 | 20H7 | 247 |
| 50 | 157,33 | 159,15 | 137x5 | 20H7 | 130 | 90 | 284,66 | 286,48 | 264x5 | 20H7 | 251 |
| 51 | 160,52 | 162,34 | 140x5 | 20H7 | 134 | 91 | 287,84 | 289,66 | 267x5 | 20H7 | 255 |
| 52 | 163,70 | 165,52 | 143x5 | 20H7 | 136 | 92 | 291,03 | 292,85 | 271x5 | 20H7 | 257 |
| 53 | 166,88 | 168,70 | 146x5 | 20H7 | 140 | 93 | 294,21 | 296,03 | 274x5 | 20H7 | 261 |
| 54 | 170,07 | 171,89 | 150x5 | 20H7 | 144 | 94 | 297,39 | 299,21 | 277x5 | 20H7 | 263 |
| 55 | 173,25 | 175,07 | 153x5 | 20H7 | 146 | 95 | 300,57 | 302,39 | 280x5 | 24H7 | 267 |
| 56 | 176,43 | 178,25 | 156x5 | 20H7 | 150 | 96 | 303,76 | 305,58 | 283x5 | 24H7 | 269 |
| 57 | 179,62 | 181,44 | 159x5 | 20H7 | 152 | 97 | 306,94 | 308,76 | 286x5 | 24H7 | 273 |
| 58 | 182,80 | 184,62 | 162x5 | 20H7 | 156 | 98 | 310,12 | 311,94 | 290x5 | 24H7 | 279 |
| 59 | 185,98 | 187,80 | 165x5 | 20H7 | 160 | 99 | 313,31 | 315,13 | 293x5 | 24H7 | 283 |
| 60 | 189,17 | 190,99 | 169x5 | 20H7 | 162 | 100 | 316,49 | 318,31 | 296x5 | 24H7 | 285 |
| 61 | 192,35 | 194,17 | 172x5 | 20H7 | 164 | 101 | 319,67 | 321,49 | 299x5 | 24H7 | 289 |
| 62 | 195,53 | 197,35 | 175x5 | 20H7 | 166 | 102 | 322,86 | 324,68 | 302x5 | 24H7 | 293 |
| 63 | 198,72 | 200,54 | 178x5 | 20H7 | 170 | 103 | 326,04 | 327,86 | 306x5 | 24H7 | 295 |
| 64 | 201,90 | 203,72 | 181x5 | 20H7 | 171 | 104 | 329,22 | 331,04 | 309x5 | 24H7 | 299 |
| 65 | 205,08 | 206,90 | 185x5 | 20H7 | 174 | 105 | 332,41 | 334,23 | 312x5 | 24H7 | 301 |
| 66 | 208,26 | 210,08 | 188x5 | 20H7 | 175 | 106 | 335,59 | 337,41 | 315x5 | 24H7 | 305 |
| 67 | 211,45 | 213,27 | 191x5 | 20H7 | 177 | 107 | 338,77 | 340,59 | 318x5 | 24H7 | 309 |
| 68 | 214,63 | 216,45 | 194x5 | 20H7 | 181 | 108 | 341,95 | 343,77 | 321x5 | 24H7 | 311 |
| 69 | 217,81 | 219,63 | 197x5 | 20H7 | 185 | 109 | 345,14 | 346,96 | 325x5 | 24H7 | 315 |
| 70 | 221,00 | 222,82 | 201x5 | 20H7 | 187 | 110 | 348,32 | 350,14 | 328x5 | 24H7 | 317 |
| 71 | 224,18 | 226,00 | 204x5 | 20H7 | 191 | 111 | 351,50 | 353,32 | 331x5 | 24H7 | 321 |
| 72 | 227,36 | 229,18 | 207x5 | 20H7 | 193 | 112 | 354,69 | 356,51 | 334x5 | 24H7 | 323 |
| 73 | 230,55 | 232,37 | 210x5 | 20H7 | 197 | 113 | 357,87 | 359,69 | 337x5 | 24H7 | 327 |
| 74 | 233,73 | 235,55 | 213x5 | 20H7 | 201 | 114 | 361,05 | 362,87 | 341x5 | 24H7 | 330 |

Synchronising pulleys, self-guiding profiles

SFAT 10



Order example

Pulley AL 65 SFAT 10 / 40 Hub 80x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

| | | | | |
|--------------|------------|----|----|-----|
| Belt width | b [mm] | 50 | 75 | 100 |
| Pulley width | B [mm] | 55 | 80 | 105 |
| Total width | B_N [mm] | 65 | 90 | 115 |

Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 50$ mm running on the back of the belt $\varnothing 120$ mm

Drive type

without contraflexure



with contraflexure



| z | Hub | | Bore | | |
|------|------------|------------|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| *15 | 45,93 | 47,75 | 32x10 | 8H7 | 17 |
| 16 | 49,11 | 50,93 | 35x10 | 8H7 | 20 |
| 17 | 52,29 | 54,11 | 40x10 | 8H7 | 24 |
| 18 | 55,48 | 57,30 | 40x10 | 10H7 | 27 |
| 19 | 58,66 | 60,48 | 44x10 | 10H7 | 30 |
| 20 | 61,84 | 63,66 | 46x10 | 12H7 | 33 |
| 21 | 65,03 | 66,85 | 46x10 | 12H7 | 36 |
| 22 | 68,21 | 70,03 | 50x10 | 12H7 | 40 |
| 23 | 71,39 | 73,21 | 50x10 | 12H7 | 43 |
| 24 | 74,57 | 76,39 | 58x10 | 12H7 | 46 |
| **25 | 77,76 | 79,58 | 60x10 | 12H7 | 49 |
| 26 | 80,94 | 82,76 | 60x10 | 12H7 | 52 |
| 27 | 84,12 | 85,94 | 60x10 | 12H7 | 55 |
| 28 | 87,31 | 89,13 | 60x10 | 12H7 | 59 |
| 29 | 90,49 | 92,31 | 60x10 | 12H7 | 62 |

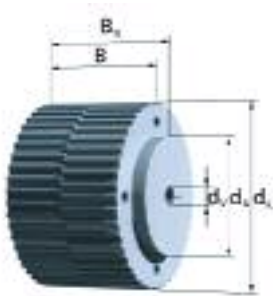
| z | Hub | | Bore | | |
|----|------------|------------|-----------------------|-------|----------------|
| | d_k [mm] | d_0 [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| 30 | 93,67 | 95,49 | 60x10 | 12H7 | 65 |
| 31 | 96,86 | 98,68 | 60x10 | 12H7 | 68 |
| 32 | 100,04 | 101,86 | 65x10 | 12H7 | 71 |
| 33 | 103,22 | 105,04 | 65x10 | 12H7 | 75 |
| 34 | 106,41 | 108,23 | 65x10 | 12H7 | 78 |
| 35 | 109,59 | 111,41 | 65x10 | 12H7 | 81 |
| 36 | 112,77 | 114,59 | 70x10 | 16H7 | 84 |
| 37 | 115,95 | 117,77 | 70x10 | 16H7 | 87 |
| 38 | 119,14 | 120,96 | 70x10 | 16H7 | 90 |
| 39 | 122,32 | 124,14 | 70x10 | 16H7 | 94 |
| 40 | 125,50 | 127,32 | 80x10 | 16H7 | 97 |
| 41 | 128,69 | 130,51 | 80x10 | 16H7 | 100 |
| 42 | 131,87 | 133,69 | 80x10 | 16H7 | 103 |
| 43 | 135,05 | 136,87 | 80x10 | 16H7 | 106 |
| 44 | 138,24 | 140,06 | 90x10 | 16H7 | 110 |

SFAT 10

| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore | | z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore | |
|----|------------------------|------------------------|--|----------------|--------------------------|-----|------------------------|------------------------|--|----------------|--------------------------|
| | | | | d _v | d _{max} [mm] | | | | | d _v | d _{max} [mm] |
| 45 | 141,42 | 143,24 | 90x10 | 16H7 | 113 | 80 | 252,83 | 254,65 | 160x10 | 20H7 | 224 |
| 46 | 144,60 | 146,42 | 90x10 | 16H7 | 116 | 81 | 256,01 | 257,83 | 160x10 | 20H7 | 227 |
| 47 | 147,79 | 149,61 | 90x10 | 16H7 | 119 | 82 | 259,19 | 261,01 | 160x10 | 20H7 | 230 |
| 48 | 150,97 | 152,79 | 95x10 | 16H7 | 122 | 83 | 262,38 | 264,20 | 160x10 | 20H7 | 234 |
| 49 | 154,15 | 155,97 | 95x10 | 16H7 | 125 | 84 | 265,56 | 267,38 | 160x10 | 20H7 | 237 |
| 50 | 157,33 | 159,15 | 95x10 | 16H7 | 129 | 85 | 268,74 | 270,56 | 160x10 | 20H7 | 240 |
| 51 | 160,52 | 162,34 | 95x10 | 16H7 | 132 | 86 | 271,93 | 273,75 | 160x10 | 20H7 | 243 |
| 52 | 163,70 | 165,52 | 110x10 | 16H7 | 135 | 87 | 275,11 | 276,93 | 160x10 | 20H7 | 246 |
| 53 | 166,88 | 168,70 | 110x10 | 16H7 | 138 | 88 | 278,29 | 280,11 | 160x10 | 20H7 | 250 |
| 54 | 170,07 | 171,89 | 110x10 | 16H7 | 141 | 89 | 281,48 | 283,30 | 160x10 | 20H7 | 253 |
| 55 | 173,25 | 175,07 | 110x10 | 16H7 | 145 | 90 | 284,66 | 286,48 | 160x10 | 20H7 | 256 |
| 56 | 176,43 | 178,25 | 110x10 | 16H7 | 148 | 91 | 287,84 | 289,66 | 160x10 | 20H7 | 259 |
| 57 | 179,62 | 181,44 | 110x10 | 16H7 | 151 | 92 | 291,03 | 292,85 | 160x10 | 20H7 | 262 |
| 58 | 182,80 | 184,62 | 110x10 | 16H7 | 154 | 93 | 294,21 | 296,03 | 160x10 | 20H7 | 266 |
| 59 | 185,98 | 187,80 | 110x10 | 16H7 | 157 | 94 | 297,39 | 299,21 | 160x10 | 20H7 | 269 |
| 60 | 189,17 | 190,99 | 110x10 | 16H7 | 160 | 95 | 300,57 | 302,39 | 160x10 | 24H7 | 272 |
| 61 | 192,35 | 194,17 | 110x10 | 16H7 | 164 | 96 | 303,76 | 305,58 | 180x10 | 24H7 | 275 |
| 62 | 195,53 | 197,35 | 110x10 | 16H7 | 167 | 97 | 306,94 | 308,76 | 180x10 | 24H7 | 278 |
| 63 | 198,72 | 200,54 | 140x10 | 16H7 | 170 | 98 | 310,12 | 311,94 | 180x10 | 24H7 | 281 |
| 64 | 201,90 | 203,72 | 140x10 | 16H7 | 173 | 99 | 313,31 | 315,13 | 180x10 | 24H7 | 285 |
| 65 | 205,08 | 206,90 | 140x10 | 16H7 | 176 | 100 | 316,49 | 318,31 | 180x10 | 24H7 | 288 |
| 66 | 208,26 | 210,08 | 140x10 | 16H7 | 180 | 101 | 319,67 | 321,49 | 180x10 | 24H7 | 291 |
| 67 | 211,45 | 213,27 | 140x10 | 16H7 | 183 | 102 | 322,86 | 324,68 | 180x10 | 24H7 | 294 |
| 68 | 214,63 | 216,45 | 140x10 | 16H7 | 186 | 103 | 326,04 | 327,86 | 180x10 | 24H7 | 297 |
| 69 | 217,81 | 219,63 | 140x10 | 16H7 | 189 | 104 | 329,22 | 331,04 | 180x10 | 24H7 | 301 |
| 70 | 221,00 | 222,82 | 140x10 | 16H7 | 192 | 105 | 332,41 | 334,23 | 180x10 | 24H7 | 304 |
| 71 | 224,18 | 226,00 | 140x10 | 16H7 | 195 | 106 | 335,59 | 337,41 | 180x10 | 24H7 | 307 |
| 72 | 227,36 | 229,18 | 140x10 | 16H7 | 199 | 107 | 338,77 | 340,59 | 180x10 | 24H7 | 310 |
| 73 | 230,55 | 232,37 | 140x10 | 20H7 | 202 | 108 | 341,95 | 343,77 | 180x10 | 24H7 | 313 |
| 74 | 233,73 | 235,55 | 140x10 | 20H7 | 205 | 109 | 345,14 | 346,96 | 180x10 | 24H7 | 316 |
| 75 | 236,91 | 238,73 | 140x10 | 20H7 | 208 | 110 | 348,32 | 350,14 | 180x10 | 24H7 | 320 |
| 76 | 240,10 | 241,92 | 140x10 | 20H7 | 211 | 111 | 351,50 | 353,32 | 180x10 | 24H7 | 323 |
| 77 | 243,28 | 245,10 | 160x10 | 20H7 | 215 | 112 | 354,69 | 356,51 | 180x10 | 24H7 | 326 |
| 78 | 246,46 | 248,28 | 160x10 | 20H7 | 218 | 113 | 357,87 | 359,69 | 180x10 | 24H7 | 329 |
| 79 | 249,64 | 251,46 | 160x10 | 20H7 | 221 | 114 | 361,05 | 362,87 | 180x10 | 24H7 | 332 |

Synchronising pulleys, self-guiding profiles

SFAT 15



Order example

Pulley AL 70 SFAT 15 / 40 Hub 110x10
 Material ————
 Width B_N ————
 Type / Pitch ————
 No. of teeth ————
 Hub dimension d_Nxl_N ————

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

| | | | | |
|--------------|---------------------|----|----|-----|
| Belt width | b [mm] | 50 | 75 | 100 |
| Pulley width | B [mm] | 60 | 85 | 110 |
| Total width | B _N [mm] | 70 | 95 | 120 |

Other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø50 mm running on the back of the belt Ø120mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|------|------------------------|------------------------|--|--|
| 20 | 93,01 | 95,49 | 60x10 | 12H7 58 |
| 21 | 97,79 | 100,27 | 60x10 | 12H7 63 |
| 22 | 102,56 | 105,04 | 65x10 | 12H7 68 |
| 23 | 107,34 | 109,82 | 65x10 | 12H7 72 |
| 24 | 112,11 | 114,59 | 70x10 | 12H7 77 |
| **25 | 116,89 | 119,37 | 80x10 | 12H7 82 |
| 26 | 121,66 | 124,14 | 80x10 | 12H7 87 |
| 27 | 126,44 | 128,92 | 80x10 | 12H7 91 |
| 28 | 131,21 | 133,69 | 80x10 | 12H7 96 |
| 29 | 135,98 | 138,46 | 80x10 | 12H7 101 |

| z | d _k [mm] | d ₀ [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|--|--|
| 30 | 140,76 | 143,24 | 90x10 | 12H7 106 |
| 31 | 145,53 | 148,01 | 90x10 | 12H7 111 |
| 32 | 150,31 | 152,79 | 95x10 | 12H7 115 |
| 33 | 155,08 | 157,56 | 95x10 | 16H7 120 |
| 34 | 159,86 | 162,34 | 95x10 | 16H7 125 |
| 35 | 164,63 | 167,11 | 95x10 | 16H7 130 |
| 36 | 169,41 | 171,89 | 100x10 | 16H7 134 |
| 37 | 174,18 | 176,66 | 100x10 | 16H7 139 |
| 38 | 178,96 | 181,44 | 100x10 | 16H7 144 |
| 39 | 183,73 | 186,21 | 100x10 | 16H7 149 |
| 40 | 188,51 | 190,99 | 110x10 | 16H7 154 |
| 41 | 193,28 | 195,76 | 110x10 | 16H7 158 |
| 42 | 198,05 | 200,54 | 110x10 | 16H7 163 |
| 43 | 202,83 | 205,31 | 110x10 | 16H7 168 |
| 44 | 207,60 | 210,08 | 110x10 | 16H7 173 |

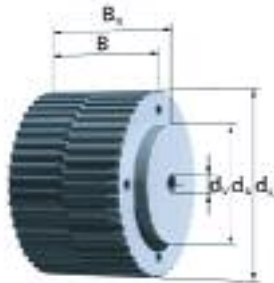
SFAT 15

| z | Hub | | Bore | | | z | Hub | | Bore | | |
|----|---------------|---------------|--------------------------|-------|-------------------|-----|---------------|---------------|--------------------------|-------|-------------------|
| | d_K [mm] | d_0 [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] | | d_K [mm] | d_0 [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| 45 | 212,38 | 214,86 | 110x10 | 16H7 | 177 | 80 | 379,49 | 381,97 | 160x10 | 20H7 | 344 |
| 46 | 217,15 | 219,63 | 140x10 | 16H7 | 182 | 81 | 384,27 | 386,75 | 160x10 | 20H7 | 349 |
| 47 | 221,93 | 224,41 | 140x10 | 16H7 | 187 | 82 | 389,04 | 391,52 | 160x10 | 20H7 | 354 |
| 48 | 226,70 | 229,18 | 140x10 | 16H7 | 192 | 83 | 393,81 | 396,30 | 160x10 | 20H7 | 359 |
| 49 | 231,48 | 233,96 | 140x10 | 16H7 | 196 | 84 | 398,59 | 401,07 | 160x10 | 20H7 | 364 |
| 50 | 236,25 | 238,73 | 140x10 | 16H7 | 201 | 85 | 403,36 | 405,85 | 200x10 | 20H7 | 368 |
| 51 | 241,03 | 243,51 | 140x10 | 16H7 | 206 | 86 | 408,14 | 410,62 | 200x10 | 20H7 | 373 |
| 52 | 245,80 | 248,28 | 140x10 | 16H7 | 211 | 87 | 412,91 | 415,39 | 200x10 | 20H7 | 378 |
| 53 | 250,58 | 253,06 | 160x10 | 16H7 | 216 | 88 | 417,69 | 420,17 | 200x10 | 20H7 | 383 |
| 54 | 255,35 | 257,83 | 160x10 | 16H7 | 220 | 89 | 422,46 | 424,94 | 200x10 | 20H7 | 387 |
| 55 | 260,13 | 262,61 | 160x10 | 16H7 | 225 | 90 | 427,24 | 429,72 | 200x10 | 20H7 | 392 |
| 56 | 264,90 | 267,38 | 160x10 | 16H7 | 230 | 91 | 432,01 | 434,49 | 200x10 | 20H7 | 397 |
| 57 | 269,67 | 272,15 | 160x10 | 16H7 | 235 | 92 | 436,79 | 439,27 | 200x10 | 20H7 | 402 |
| 58 | 274,45 | 276,93 | 160x10 | 16H7 | 239 | 93 | 441,56 | 444,04 | 200x10 | 20H7 | 407 |
| 59 | 279,22 | 281,70 | 160x10 | 16H7 | 244 | 94 | 446,34 | 448,82 | 200x10 | 20H7 | 411 |
| 60 | 284,00 | 286,48 | 160x10 | 16H7 | 249 | 95 | 451,11 | 453,59 | 200x10 | 20H7 | 416 |
| 61 | 288,77 | 291,25 | 160x10 | 16H7 | 254 | 96 | 455,89 | 458,37 | 200x10 | 20H7 | 421 |
| 62 | 293,55 | 296,03 | 160x10 | 16H7 | 259 | 97 | 460,66 | 463,14 | 200x10 | 30H7 | 426 |
| 63 | 298,32 | 300,80 | 160x10 | 16H7 | 263 | 98 | 465,43 | 467,92 | 200x10 | 30H7 | 430 |
| 64 | 303,10 | 305,58 | 160x10 | 16H7 | 268 | 99 | 470,21 | 472,69 | 200x10 | 30H7 | 435 |
| 65 | 307,87 | 310,35 | 160x10 | 16H7 | 273 | 100 | 474,98 | 477,46 | 200x10 | 30H7 | 440 |
| 66 | 312,65 | 315,13 | 160x10 | 16H7 | 278 | 101 | 479,76 | 482,24 | 200x10 | 30H7 | 445 |
| 67 | 317,42 | 319,90 | 160x10 | 16H7 | 282 | 102 | 484,53 | 487,01 | 200x10 | 30H7 | 450 |
| 68 | 322,20 | 324,68 | 160x10 | 16H7 | 287 | 103 | 489,31 | 491,97 | 200x10 | 30H7 | 454 |
| 69 | 326,97 | 329,45 | 160x10 | 16H7 | 292 | 104 | 494,08 | 496,56 | 200x10 | 30H7 | 459 |
| 70 | 331,74 | 334,23 | 160x10 | 16H7 | 297 | 105 | 498,86 | 501,34 | 200x10 | 30H7 | 464 |
| 71 | 336,52 | 339,00 | 160x10 | 16H7 | 302 | 106 | 503,63 | 506,11 | 200x10 | 30H7 | 469 |
| 72 | 341,29 | 343,77 | 160x10 | 16H7 | 306 | 107 | 508,41 | 510,89 | 200x10 | 30H7 | 473 |
| 73 | 346,07 | 348,55 | 160x10 | 20H7 | 311 | 108 | 513,18 | 515,66 | 200x10 | 30H7 | 478 |
| 74 | 350,84 | 353,32 | 160x10 | 20H7 | 316 | 109 | 517,96 | 520,44 | 200x10 | 30H7 | 483 |
| 75 | 355,62 | 358,10 | 160x10 | 20H7 | 321 | 110 | 522,73 | 525,21 | 200x10 | 30H7 | 488 |
| 76 | 360,39 | 362,87 | 160x10 | 20H7 | 325 | 111 | 527,50 | 529,99 | 200x10 | 30H7 | 493 |
| 77 | 365,17 | 367,65 | 160x10 | 20H7 | 330 | 112 | 532,28 | 534,76 | 200x10 | 30H7 | 497 |
| 78 | 369,94 | 372,42 | 160x10 | 20H7 | 335 | 113 | 537,05 | 539,54 | 200x10 | 30H7 | 502 |
| 79 | 374,72 | 377,20 | 160x10 | 20H7 | 340 | 114 | 541,83 | 544,31 | 200x10 | 30H7 | 507 |

Synchronising pulleys, self-guiding profiles



SFAT 20



Order example

Pulley AL 90 SFAT 20/ 40 Hub 110x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

| | | | | |
|--------------|------------|----|----|-----|
| Belt width | b [mm] | 50 | 75 | 100 |
| Pulley width | B [mm] | 55 | 80 | 105 |
| Total width | B_N [mm] | 65 | 90 | 115 |

Other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 120\text{mm}$ running on the back of the belt $\varnothing 180$

Drive type

without contraflexure



with contraflexure



| mm | | | | | |
|------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| z | d_k [mm] | d_0 [mm] | Hub $d_N \times l_N$ [mm] | Bore d_V [mm] | d_{max} [mm] |
| *18 | 111,77 | 114,59 | 70x10 | 12H7 | 70 |
| 19 | 118,14 | 120,96 | 80x10 | 12H7 | 76 |
| 20 | 124,50 | 127,32 | 90x10 | 16H7 | 83 |
| 21 | 130,87 | 133,69 | 90x10 | 16H7 | 89 |
| 22 | 137,24 | 140,06 | 90x10 | 16H7 | 95 |
| 23 | 143,60 | 146,42 | 90x10 | 16H7 | 102 |
| 24 | 149,97 | 152,79 | 95x10 | 16H7 | 108 |
| **25 | 156,33 | 159,15 | 95x10 | 16H7 | 114 |
| 26 | 162,70 | 165,52 | 95x10 | 16H7 | 121 |
| 27 | 169,07 | 171,89 | 110x10 | 16H7 | 127 |
| 28 | 175,43 | 178,25 | 110x10 | 16H7 | 133 |
| 29 | 181,80 | 184,62 | 110x10 | 16H7 | 140 |

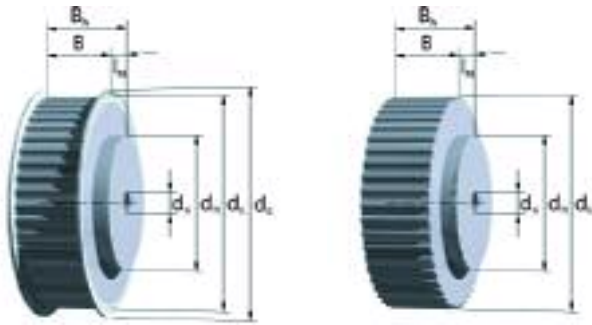
| z | d_k [mm] | d_0 [mm] | Hub $d_N \times l_N$ [mm] | Bore d_V [mm] | d_{max} [mm] |
|-----|---------------|---------------|---------------------------------|-----------------------|-------------------|
| 30 | 188,17 | 190,99 | 110x10 | 16H7 | 146 |
| 31 | 194,53 | 197,35 | 110x10 | 16H7 | 153 |
| 32 | 200,90 | 203,72 | 110x10 | 16H7 | 159 |
| 33 | 207,26 | 210,08 | 110x10 | 16H7 | 165 |
| 34 | 213,63 | 216,45 | 110x10 | 16H7 | 172 |
| 35 | 220,00 | 222,82 | 110x10 | 16H7 | 178 |
| 36 | 226,36 | 229,18 | 110x10 | 18H7 | 184 |
| 37 | 232,73 | 235,55 | 110x10 | 18H7 | 191 |
| 38 | 239,10 | 241,92 | 110x10 | 18H7 | 197 |
| 39 | 245,46 | 248,28 | 110x10 | 18H7 | 203 |
| 40 | 251,83 | 254,65 | 110x10 | 18H7 | 210 |
| 41 | 258,19 | 261,01 | 130x10 | 18H7 | 216 |
| 42 | 264,56 | 267,38 | 130x10 | 18H7 | 223 |
| 43 | 270,93 | 273,75 | 130x10 | 18H7 | 229 |
| 44 | 277,29 | 280,11 | 130x10 | 18H7 | 235 |

SFAT 20

| z | d _k [mm] | d ₀ [mm] | Hub | | Bore | | z | d _k [mm] | d ₀ [mm] | Hub | | Bore | |
|----|------------------------|------------------------|---|----------------|--------------------------|---|--------|------------------------|------------------------|----------------|--------------------------|------|--|
| | | | d _N x l _N [mm] | d _V | d _{max} [mm] | d _N x l _N [mm] | | | | d _V | d _{max} [mm] | | |
| 45 | 283,66 | 286,48 | 130x10 | 18H7 | 242 | 80 | 506,48 | 509,30 | - | 30H7 | 464 | | |
| 46 | 290,03 | 292,85 | 130x10 | 18H7 | 248 | 81 | 512,84 | 515,66 | - | 30H7 | 471 | | |
| 47 | 296,39 | 299,21 | 130x10 | 18H7 | 254 | 82 | 519,21 | 522,03 | - | 30H7 | 477 | | |
| 48 | 302,76 | 305,58 | 130x10 | 18H7 | 261 | 83 | 525,57 | 528,39 | - | 30H7 | 484 | | |
| 49 | 309,12 | 311,94 | 130x10 | 20H7 | 267 | 84 | 531,94 | 534,76 | - | 30H7 | 490 | | |
| 50 | 315,49 | 318,31 | 140x10 | 20H7 | 273 | 85 | 538,31 | 541,13 | - | 30H7 | 496 | | |
| 51 | 312,86 | 324,68 | 140x10 | 20H7 | 280 | 86 | 544,67 | 547,49 | - | 30H7 | 503 | | |
| 52 | 328,22 | 331,04 | 140x10 | 20H7 | 286 | 87 | 551,04 | 553,86 | - | 30H7 | 509 | | |
| 53 | 334,59 | 337,41 | 140x10 | 20H7 | 293 | 88 | 557,41 | 560,23 | - | 30H7 | 515 | | |
| 54 | 340,95 | 343,77 | 140x10 | 20H7 | 299 | 89 | 563,77 | 566,59 | - | 30H7 | 522 | | |
| 55 | 347,32 | 350,14 | 140x10 | 20H7 | 305 | 90 | 570,14 | 572,96 | - | 30H7 | 528 | | |
| 56 | 353,69 | 356,51 | 140x10 | 20H7 | 312 | 91 | 576,50 | 579,32 | - | 30H7 | 535 | | |
| 57 | 360,05 | 362,87 | 140x10 | 20H7 | 318 | 92 | 582,87 | 585,69 | - | 30H7 | 541 | | |
| 58 | 366,42 | 396,24 | 140x10 | 20H7 | 324 | 93 | 589,24 | 592,06 | - | 30H7 | 547 | | |
| 59 | 372,79 | 375,61 | 140x10 | 20H7 | 331 | 94 | 595,60 | 598,42 | - | 30H7 | 554 | | |
| 60 | 379,15 | 381,97 | 140x10 | 20H7 | 337 | 95 | 601,97 | 604,79 | - | 40H7 | 560 | | |
| 61 | 385,52 | 388,34 | 140x10 | 20H7 | 344 | 96 | 608,33 | 611,15 | - | 40H7 | 566 | | |
| 62 | 391,88 | 394,70 | 140x10 | 20H7 | 350 | 97 | 614,70 | 617,52 | - | 40H7 | 573 | | |
| 63 | 398,25 | 401,07 | 140x10 | 20H7 | 356 | 98 | 621,07 | 623,89 | - | 40H7 | 579 | | |
| 64 | 404,62 | 407,44 | 140x10 | 20H7 | 363 | 99 | 627,43 | 630,25 | - | 40H7 | 585 | | |
| 65 | 410,98 | 413,80 | 140x10 | 20H7 | 369 | 100 | 633,80 | 636,62 | - | 40H7 | 592 | | |
| 66 | 417,35 | 420,17 | 140x10 | 20H7 | 375 | 101 | 640,17 | 642,99 | - | 40H7 | 598 | | |
| 67 | 423,72 | 426,54 | 140x10 | 20H7 | 382 | 102 | 646,53 | 649,35 | - | 40H7 | 605 | | |
| 68 | 430,08 | 432,90 | 140x10 | 20H7 | 388 | 103 | 652,90 | 655,72 | - | 40H7 | 611 | | |
| 69 | 436,45 | 439,27 | 140x10 | 20H7 | 394 | 104 | 659,26 | 662,08 | - | 40H7 | 617 | | |
| 70 | 442,81 | 445,63 | 140x10 | 20H7 | 401 | 105 | 665,63 | 668,45 | - | 40H7 | 624 | | |
| 71 | 449,18 | 452,00 | 140x10 | 20H7 | 407 | 106 | 672,00 | 674,82 | - | 40H7 | 630 | | |
| 72 | 455,55 | 458,37 | 140x10 | 20H7 | 414 | 107 | 678,36 | 681,18 | - | 40H7 | 636 | | |
| 73 | 461,91 | 464,73 | 160x10 | 30H7 | 420 | 108 | 684,73 | 687,55 | - | 40H7 | 643 | | |
| 74 | 468,28 | 471,10 | 160x10 | 30H7 | 426 | 109 | 691,10 | 693,92 | - | 40H7 | 649 | | |
| 75 | 474,64 | 477,46 | 160x10 | 30H7 | 433 | 110 | 697,46 | 700,28 | - | 40H7 | 655 | | |
| 76 | 481,01 | 483,83 | 160x10 | 30H7 | 439 | 111 | 703,83 | 706,65 | - | 40H7 | 662 | | |
| 77 | 487,38 | 490,20 | 160x10 | 30H7 | 445 | 112 | 710,19 | 713,01 | - | 40H7 | 668 | | |
| 78 | 493,74 | 496,56 | 160x10 | 30H7 | 452 | 113 | 716,56 | 719,38 | - | 40H7 | 675 | | |
| 79 | 500,11 | 502,93 | 160x10 | 30H7 | 458 | 114 | 722,93 | 725,75 | - | 40H7 | 681 | | |

Synchronising pulleys, T profile

T 2



Order example:

Pulley AL 20 T 2 / 30 - 2 Nabe 10x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb
 Flange: Steel, zinc plated

Stock pulleys over
 $z = 24$ with flanges

Stock pulleys up to
 $z = 20$ without flanges

| | | | | |
|--------------|------------|----|----|----|
| Belt width | b [mm] | 4 | 6 | 10 |
| Pulley width | B [mm] | 8 | 10 | 14 |
| Total width | B_N [mm] | 14 | 16 | 20 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 15$ mm running on the back of the belt $\varnothing 15$ mm

Drive type

without contraflexure



with contraflexure



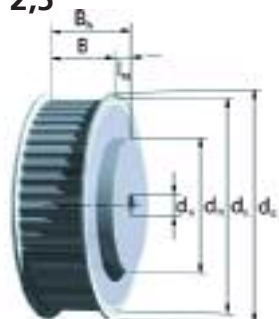
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|------|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| *15 | 9,00 | 9,55 | 13 | - | 3H7 | 3,5 |
| 16 | 9,64 | 10,19 | 13 | - | 3H7 | 3,5 |
| 17 | 10,27 | 10,82 | 14 | - | 3H7 | 4 |
| **18 | 10,91 | 11,46 | 14 | - | 3H7 | 4 |
| 19 | 11,55 | 12,10 | 15 | - | 3H7 | 5 |
| 20 | 12,18 | 12,73 | 15 | - | 3H7 | 5 |
| 21 | 12,82 | 13,37 | 16 | - | 3H7 | 6 |
| 22 | 13,46 | 14,01 | 16 | - | 3H7 | 6 |
| 23 | 14,09 | 14,64 | 18 | - | 3H7 | 8 |
| 24 | 14,73 | 15,28 | 18 | 10x6 | 3H7 | 8 |
| 25 | 15,37 | 15,92 | 19 | 10x6 | 3H7 | 9 |
| 26 | 16,00 | 16,55 | 19 | 10x6 | 3H7 | 9 |
| 27 | 16,64 | 17,19 | 20 | 10x6 | 3H7 | 10 |
| 28 | 17,28 | 17,83 | 20 | 10x6 | 3H7 | 10 |
| 29 | 17,91 | 18,46 | 22 | 10x6 | 3H7 | 11 |

| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| 30 | 18,55 | 19,10 | 22 | 10x6 | 3H7 | 12 |
| 31 | 19,19 | 19,74 | 22 | 10x6 | 3H7 | 12 |
| 32 | 19,82 | 20,37 | 24 | 14x6 | 3H7 | 13 |
| 33 | 20,46 | 21,01 | 24 | 14x6 | 3H7 | 13 |
| 34 | 21,10 | 21,65 | 24 | 14x6 | 3H7 | 13 |
| 35 | 21,73 | 22,28 | 25 | 14x6 | 3H7 | 14 |
| 36 | 22,37 | 22,92 | 26 | 14x6 | 3H7 | 14 |
| 37 | 23,00 | 23,55 | 26 | 14x6 | 3H7 | 14 |
| 38 | 23,64 | 24,19 | 28 | 14x6 | 3H7 | 16 |
| 39 | 24,28 | 24,83 | 28 | 14x6 | 3H7 | 16 |
| 40 | 24,91 | 25,46 | 28 | 14x6 | 3H7 | 16 |
| 41 | 25,55 | 26,10 | 30 | 14x6 | 3H7 | 18 |
| 42 | 26,19 | 26,74 | 30 | 14x6 | 3H7 | 18 |
| 43 | 26,82 | 27,37 | 30 | 14x6 | 3H7 | 18 |
| 44 | 27,46 | 28,01 | 32 | 14x6 | 3H7 | 18 |

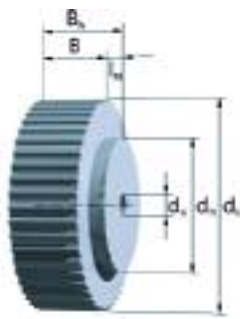
| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 45 | 28,10 | 28,65 | 32 | 14x6 | 3H7 | 18 | 80 | 50,38 | 50,93 | 55 | 34x6 | 6H7 | 41 |
| 46 | 28,73 | 29,28 | 32 | 14x6 | 3H7 | 18 | 81 | 51,02 | 51,57 | 55 | 34x6 | 6H7 | 41 |
| 47 | 29,37 | 29,92 | 35 | 14x6 | 4H7 | 21 | 82 | 51,65 | 52,20 | 56 | 34x6 | 6H7 | 42 |
| 48 | 30,01 | 30,56 | 35 | 20x6 | 4H7 | 21 | 83 | 52,29 | 52,84 | 56 | 34x6 | 6H7 | 42 |
| 49 | 30,64 | 31,19 | 35 | 20x6 | 4H7 | 21 | 84 | 52,93 | 53,48 | 58 | 34x6 | 6H7 | 44 |
| 50 | 31,28 | 31,83 | 35 | 20x6 | 4H7 | 21 | 85 | 53,56 | 54,11 | 58 | 34x6 | 6H7 | 44 |
| 51 | 31,92 | 32,47 | 36 | 20x6 | 4H7 | 21 | 86 | 54,20 | 54,75 | 58 | 34x6 | 6H7 | 44 |
| 52 | 32,55 | 33,10 | 36 | 20x6 | 4H7 | 21 | 87 | 54,84 | 55,39 | 60 | 34x6 | 6H7 | 46 |
| 53 | 33,19 | 33,74 | 36 | 20x6 | 4H7 | 21 | 88 | 55,47 | 56,02 | 60 | 34x6 | 6H7 | 46 |
| 54 | 33,83 | 34,38 | 40 | 20x6 | 4H7 | 24 | 89 | 56,11 | 56,66 | 61 | 34x6 | 8H7 | 47 |
| 55 | 34,46 | 35,01 | 40 | 20x6 | 4H7 | 24 | 90 | 56,75 | 57,30 | 62 | 34x6 | 8H7 | 48 |
| 56 | 35,10 | 35,65 | 40 | 20x6 | 4H7 | 24 | 91 | 57,39 | 57,93 | 62 | 38x6 | 8H7 | 48 |
| 57 | 35,74 | 36,29 | 42 | 20x6 | 4H7 | 26 | 92 | 58,02 | 58,57 | 62 | 38x6 | 8H7 | 48 |
| 58 | 36,37 | 36,92 | 42 | 20x6 | 4H7 | 26 | 93 | 58,66 | 59,21 | 64 | 38x6 | 8H7 | 50 |
| 59 | 37,01 | 37,56 | 42 | 20x6 | 4H7 | 26 | 94 | 59,29 | 59,84 | 64 | 38x6 | 8H7 | 50 |
| 60 | 37,65 | 38,20 | 42 | 20x6 | 4H7 | 26 | 95 | 59,93 | 60,48 | 64 | 38x6 | 8H7 | 50 |
| 61 | 38,28 | 38,83 | 42 | 26x6 | 4H7 | 26 | 96 | 60,57 | 61,12 | 66 | 38x6 | 8H7 | 51 |
| 62 | 38,92 | 39,47 | 45 | 26x6 | 4H7 | 28 | 97 | 61,20 | 61,75 | 66 | 38x6 | 8H7 | 51 |
| 63 | 39,56 | 40,11 | 45 | 26x6 | 6H7 | 28 | 98 | 61,84 | 62,39 | 66 | 38x6 | 8H7 | 52 |
| 64 | 40,19 | 40,74 | 45 | 26x6 | 6H7 | 28 | 99 | 62,48 | 63,03 | 68 | 38x6 | 8H7 | 53 |
| 65 | 40,83 | 41,38 | 45 | 26x6 | 6H7 | 28 | 100 | 63,11 | 63,66 | 68 | 38x6 | 8H7 | 54 |
| 66 | 41,47 | 42,02 | 47 | 26x6 | 6H7 | 33 | 101 | 63,75 | 64,30 | 70 | 38x6 | 8H7 | 56 |
| 67 | 42,10 | 42,65 | 47 | 26x6 | 6H7 | 33 | 102 | 64,39 | 64,94 | 70 | 38x6 | 8H7 | 56 |
| 68 | 42,74 | 43,29 | 47 | 26x6 | 6H7 | 33 | 103 | 65,02 | 65,57 | 70 | 38x6 | 8H7 | 56 |
| 69 | 43,38 | 43,93 | 47 | 26x6 | 6H7 | 33 | 104 | 65,66 | 66,21 | 72 | 38x6 | 8H7 | 58 |
| 70 | 44,01 | 44,56 | 50 | 26x6 | 6H7 | 36 | 105 | 66,30 | 66,85 | 72 | 38x6 | 8H7 | 58 |
| 71 | 44,65 | 45,20 | 50 | 26x6 | 6H7 | 36 | 106 | 66,93 | 67,48 | 72 | 38x6 | 8H7 | 58 |
| 72 | 45,29 | 45,84 | 50 | 26x6 | 6H7 | 36 | 107 | 67,57 | 68,12 | 72 | 38x6 | 8H7 | 58 |
| 73 | 45,92 | 46,47 | 50 | 34x6 | 6H7 | 36 | 108 | 68,20 | 68,75 | 74 | 38x6 | 8H7 | 60 |
| 74 | 46,56 | 47,11 | 50 | 34x6 | 6H7 | 36 | 109 | 68,84 | 69,39 | 74 | 38x6 | 8H7 | 60 |
| 75 | 47,20 | 47,75 | 53 | 34x6 | 6H7 | 36 | 110 | 69,48 | 70,03 | 75 | 38x6 | 8H7 | 61 |
| 76 | 47,83 | 48,38 | 53 | 34x6 | 6H7 | 36 | 111 | 70,11 | 70,66 | 75 | 38x6 | 8H7 | 61 |
| 77 | 48,47 | 49,02 | 53 | 34x6 | 6H7 | 36 | 112 | 70,75 | 71,30 | 75 | 38x6 | 8H7 | 61 |
| 78 | 49,11 | 49,66 | 55 | 34x6 | 6H7 | 41 | 113 | 71,39 | 71,94 | 76 | 40x6 | 10H7 | 62 |
| 79 | 49,74 | 50,29 | 55 | 34x6 | 6H7 | 41 | 114 | 72,02 | 72,57 | 78 | 40x6 | 10H7 | 62 |

Synchronising pulleys, T profile

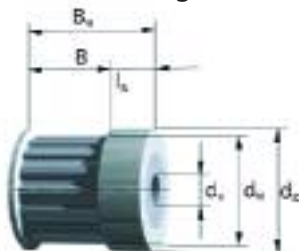
T 2,5



Stock pulleys up to $z = 40$ with flanges



Stock pulleys over $z = 48$ without flanges



Stock pulleys up to $z = 16$ with flanges

The stock pulleys with standard dimensioning are marked in **blue**

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_V = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

* Minimum number of teeth without contraflexure (BRECO T2,5: $z_{min} = 15$)

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 15$ mm

running on the back of the belt $\varnothing 18$ mm

| z | Hub | | | Bore | | |
|------|---------------|---------------|---------------|--------------------------|---------------|-------------------|
| | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V [mm] | d_{max} [mm] |
| *10 | 7,45 | 7,96 | 10 | 10x6 | 3H7 | 3 |
| 11 | 8,25 | 8,75 | 12 | 10x6 | 3H7 | 3 |
| 12 | 9,00 | 9,55 | 12 | 12x6 | 3H7 | 3 |
| 13 | 9,80 | 10,35 | 13 | 12x6 | 3H7 | 3,5 |
| 14 | 10,60 | 11,14 | 14 | 14x6 | 3H7 | 4 |
| 15 | 11,40 | 11,94 | 15 | 15x6 | 3H7 | 5 |
| 16 | 12,20 | 12,73 | 16 | 16x6 | 4H7 | 6 |
| 17 | 13,00 | 13,53 | 16 | 10x6 | 4H7 | 7 |
| **18 | 13,80 | 14,32 | 17 | 10x6 | 4H7 | 7 |
| 19 | 14,60 | 15,12 | 18 | 10x6 | 4H7 | 8 |

Order example:

Pulley AL 20 T 2,5 / 30 - 2 Nabe 16x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb

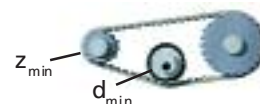
Flange: Steel, zinc plated

| Belt width | b [mm] | 4 | 6 | 8 | 10 | 20 |
|--------------|------------|----|----|----|----|----|
| Pulley width | B [mm] | 8 | 10 | 12 | 14 | 24 |
| Total width | B_N [mm] | 14 | 16 | 18 | 20 | 30 |

In-between widths and larger widths as well as other hub dimensions are available

Drive type

without contraflexure



with contraflexure



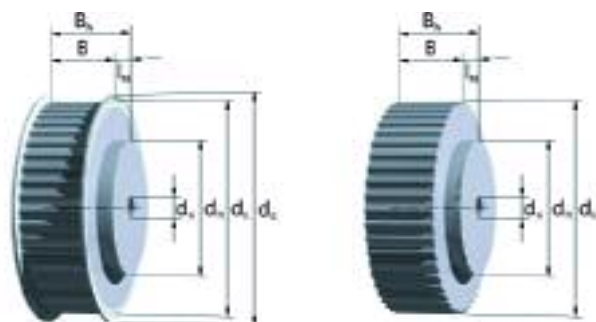
| z | Hub | | | Bore | | |
|----|---------------|---------------|---------------|--------------------------|---------------|-------------------|
| | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V [mm] | d_{max} [mm] |
| 20 | 15,40 | 15,92 | 19 | 12x6 | 4H7 | 9 |
| 21 | 16,20 | 16,71 | 20 | 12x6 | 4H7 | 10 |
| 22 | 17,00 | 17,51 | 20 | 12x6 | 4H7 | 10 |
| 23 | 17,80 | 18,30 | 21 | 12x6 | 4H7 | 11 |
| 24 | 18,55 | 19,10 | 22 | 14x6 | 4H7 | 11 |
| 25 | 19,35 | 19,89 | 23 | 14x6 | 4H7 | 12 |
| 26 | 20,15 | 20,69 | 23 | 14x6 | 4H7 | 13 |
| 27 | 20,95 | 21,49 | 24 | 14x6 | 4H7 | 13 |
| 28 | 21,75 | 22,28 | 25 | 14x6 | 4H7 | 13 |
| 29 | 22,55 | 23,08 | 26 | 14x6 | 4H7 | 14 |
| 30 | 23,35 | 23,87 | 28 | 16x6 | 6H7 | 15 |
| 31 | 24,15 | 24,67 | 28 | 16x6 | 6H7 | 16 |
| 32 | 24,95 | 25,46 | 28 | 16x6 | 6H7 | 16 |
| 33 | 25,75 | 26,26 | 30 | 16x6 | 6H7 | 17 |
| 34 | 26,55 | 27,06 | 30 | 16x6 | 6H7 | 17 |

T 2,5

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _v d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 35 | 27,35 | 27,85 | 32 | 16x6 | 6H7 20 | 75 | 59,15 | 59,68 | 62 | 38x6 | 8H7 45 |
| 36 | 28,15 | 28,65 | 32 | 20x6 | 6H7 20 | 76 | 59,95 | 60,48 | 64 | 38x6 | 8H7 45 |
| 37 | 28,90 | 29,44 | 32 | 20x6 | 6H7 21 | 77 | 60,75 | 61,27 | 64 | 38x6 | 8H7 46 |
| 38 | 29,70 | 30,24 | 34 | 20x6 | 6H7 21 | 78 | 61,55 | 62,07 | 66 | 38x6 | 8H7 47 |
| 39 | 30,50 | 31,04 | 34 | 20x6 | 6H7 22 | 79 | 62,35 | 62,87 | 66 | 38x6 | 8H7 47 |
| 40 | 31,30 | 31,83 | 35 | 22x6 | 6H7 23 | 80 | 63,15 | 63,66 | 68 | 38x6 | 8H7 47 |
| 41 | 32,10 | 32,63 | 36 | 22x6 | 6H7 24 | 81 | 63,95 | 64,46 | 68 | 38x6 | 8H7 47 |
| 42 | 32,90 | 33,42 | 36 | 22x6 | 6H7 24 | 82 | 64,75 | 65,25 | 68 | 38x6 | 8H7 48 |
| 43 | 33,70 | 34,22 | 37 | 22x6 | 6H7 24 | 83 | 65,55 | 66,05 | 70 | 38x6 | 8H7 49 |
| 44 | 34,50 | 35,01 | 39 | 22x6 | 6H7 25 | 84 | 66,35 | 66,85 | 70 | 38x6 | 8H7 50 |
| 45 | 35,30 | 35,81 | 39 | 22x6 | 6H7 26 | 85 | 67,15 | 67,64 | 72 | 38x6 | 8H7 50 |
| 46 | 36,10 | 36,61 | 40 | 22x6 | 6H7 27 | 86 | 67,95 | 68,44 | 72 | 38x6 | 8H7 51 |
| 47 | 36,90 | 37,40 | 40 | 22x6 | 6H7 27 | 87 | 68,70 | 69,23 | 72 | 38x6 | 8H7 51 |
| 48 | 37,70 | 38,20 | 42 | 26x6 | 6H7 27 | 88 | 69,50 | 70,03 | 74 | 38x6 | 8H7 52 |
| 49 | 38,45 | 38,99 | 42 | 26x6 | 6H7 28 | 89 | 70,30 | 70,82 | 74 | 38x6 | 8H7 52 |
| 50 | 39,25 | 39,79 | 43 | 26x6 | 6H7 29 | 90 | 71,10 | 71,62 | 75 | 38x6 | 8H7 53 |
| 51 | 40,05 | 40,58 | 43 | 26x6 | 6H7 30 | 91 | 71,90 | 72,42 | 75 | 40x6 | 10H7 53 |
| 52 | 40,85 | 41,38 | 45 | 26x6 | 6H7 30 | 92 | 72,70 | 73,21 | 76 | 40x6 | 10H7 54 |
| 53 | 41,65 | 42,18 | 45 | 26x6 | 6H7 30 | 93 | 73,50 | 74,01 | 78 | 40x6 | 10H7 55 |
| 54 | 42,45 | 42,97 | 47 | 26x6 | 6H7 31 | 94 | 74,30 | 74,80 | 78 | 40x6 | 10H7 55 |
| 55 | 43,25 | 43,77 | 47 | 26x6 | 6H7 32 | 95 | 75,10 | 75,60 | 80 | 40x6 | 10H7 56 |
| 56 | 44,05 | 44,56 | 47 | 26x6 | 6H7 32 | 96 | 75,90 | 76,39 | 80 | 40x6 | 10H7 57 |
| 57 | 44,85 | 45,36 | 48 | 26x6 | 6H7 32 | 97 | 76,70 | 77,19 | 80 | 40x6 | 10H7 57 |
| 58 | 45,65 | 46,15 | 50 | 26x6 | 6H7 33 | 98 | 77,50 | 77,99 | 82 | 40x6 | 10H7 58 |
| 59 | 46,45 | 46,95 | 50 | 26x6 | 6H7 34 | 99 | 78,25 | 78,78 | 82 | 40x6 | 10H7 58 |
| 60 | 47,25 | 47,75 | 52 | 34x6 | 8H7 35 | 100 | 79,05 | 79,58 | 84 | 40x6 | 10H7 59 |
| 61 | 48,05 | 48,54 | 52 | 34x6 | 8H7 36 | 101 | 79,85 | 80,37 | 84 | 50x6 | 10H7 59 |
| 62 | 48,80 | 49,34 | 53 | 34x6 | 8H7 37 | 102 | 80,65 | 81,17 | 84 | 50x6 | 10H7 60 |
| 63 | 49,60 | 50,13 | 53 | 34x6 | 8H7 37 | 103 | 81,45 | 81,96 | 86 | 50x6 | 10H7 61 |
| 64 | 50,40 | 50,93 | 55 | 34x6 | 8H7 37 | 104 | 82,25 | 82,76 | 86 | 50x6 | 10H7 62 |
| 65 | 51,20 | 51,73 | 55 | 34x6 | 8H7 38 | 105 | 83,05 | 83,56 | 88 | 50x6 | 10H7 63 |
| 66 | 52,00 | 52,52 | 55 | 34x6 | 8H7 38 | 106 | 83,85 | 84,35 | 88 | 50x6 | 10H7 63 |
| 67 | 52,80 | 53,32 | 56 | 34x6 | 8H7 39 | 107 | 84,65 | 85,15 | 88 | 50x6 | 10H7 64 |
| 68 | 53,60 | 54,11 | 58 | 34x6 | 8H7 39 | 108 | 85,45 | 85,94 | 90 | 50x6 | 10H7 64 |
| 69 | 54,40 | 54,91 | 58 | 34x6 | 8H7 40 | 109 | 86,25 | 86,74 | 90 | 50x6 | 10H7 65 |
| 70 | 55,20 | 55,70 | 60 | 34x6 | 8H7 41 | 110 | 87,05 | 87,54 | 91 | 50x6 | 10H7 65 |
| 71 | 56,00 | 56,50 | 60 | 34x6 | 8H7 42 | 111 | 87,85 | 88,33 | 91 | 50x6 | 10H7 65 |
| 72 | 56,80 | 57,30 | 60 | 34x6 | 8H7 42 | 112 | 88,60 | 89,13 | 93 | 50x6 | 10H7 66 |
| 73 | 57,60 | 58,09 | 61 | 38x6 | 8H7 43 | 113 | 89,40 | 89,92 | 93 | 50x6 | 10H7 67 |
| 74 | 58,35 | 58,89 | 62 | 38x6 | 8H7 44 | 114 | 90,20 | 90,72 | 94 | 50x6 | 10H7 68 |

Synchronising pulleys, T profile

T 5



Stock pulleys up to
z = 40 with flanges

Stock pulleys over
z = 48 without flanges

Order example:

Pulley AL 38 T 5 / 35 - 2 Nabe 38x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb
 Flange: Steel, zinc plated

| | | | | | |
|--------------|------------|----|----|----|----|
| Belt width | b [mm] | 6 | 10 | 16 | 25 |
| Pulley width | B [mm] | 12 | 15 | 21 | 30 |
| Total width | B_N [mm] | 18 | 21 | 27 | 36 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

z = number of teeth

d_0 = pitch circle diameter

d_k = crown diameter

d_B = flange diameter

d_v = diameter of pre-bore

d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required

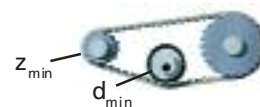
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 30$ mm running on the back of the belt $\varnothing 30$ mm

Drive type

without contraflexure



with contraflexure



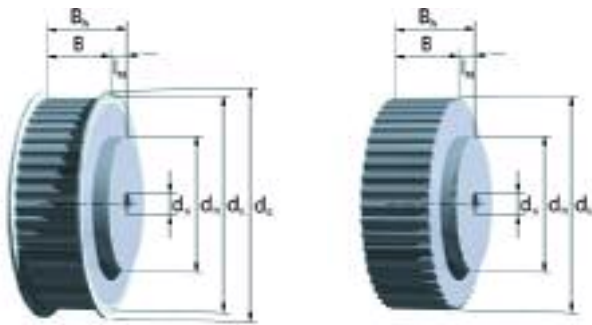
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|------|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| *10 | 15,05 | 15,92 | 20 | 8x6 | 4H7 | 6 |
| 11 | 16,65 | 17,50 | 22 | 10x6 | 4H7 | 6 |
| 12 | 18,25 | 19,10 | 23 | 12x6 | 4H7 | 6 |
| 13 | 19,85 | 20,69 | 25 | 12x6 | 6H7 | 8 |
| 14 | 21,45 | 22,28 | 26 | 14x6 | 6H7 | 8 |
| **15 | 23,05 | 23,87 | 28 | 16x6 | 6H7 | 10 |
| 16 | 24,60 | 25,46 | 30 | 18x6 | 6H7 | 12 |
| 17 | 26,20 | 27,06 | 32 | 18x6 | 6H7 | 14 |
| 18 | 27,80 | 28,65 | 34 | 20x6 | 6H7 | 16 |
| 19 | 29,40 | 30,24 | 35 | 22x6 | 6H7 | 16 |

| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|----|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| 20 | 31,00 | 31,83 | 36 | 24x6 | 6H7 | 18 |
| 21 | 32,60 | 33,42 | 37 | 24x6 | 6H7 | 20 |
| 22 | 34,15 | 35,01 | 39 | 24x6 | 6H7 | 22 |
| 23 | 35,75 | 36,61 | 40 | 24x6 | 6H7 | 24 |
| 24 | 37,35 | 38,20 | 42 | 26x6 | 6H7 | 24 |
| 25 | 38,95 | 39,79 | 43 | 26x6 | 6H7 | 25 |
| 26 | 40,55 | 41,38 | 45 | 26x6 | 8H7 | 25 |
| 27 | 42,15 | 42,97 | 47 | 30x6 | 8H7 | 27 |
| 28 | 43,75 | 44,56 | 48 | 30x6 | 8H7 | 29 |
| 29 | 45,30 | 46,15 | 50 | 30x6 | 8H7 | 31 |
| 30 | 46,90 | 47,75 | 52 | 34x6 | 8H7 | 33 |
| 31 | 48,50 | 49,34 | 53 | 34x6 | 8H7 | 35 |
| 32 | 50,10 | 50,93 | 55 | 38x6 | 8H7 | 37 |
| 33 | 51,70 | 52,52 | 56 | 38x6 | 8H7 | 39 |
| 34 | 53,30 | 54,11 | 58 | 38x6 | 8H7 | 39 |

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|-----|------------------------|------------------------|------------------------|--|---|
| 35 | 54,85 | 55,70 | 60 | 38x6 | 8H7 40 | 75 | 118,55 | 119,37 | 123 | 80x6 | 10H7 98 |
| 36 | 56,45 | 57,30 | 61 | 38x6 | 8H7 42 | 76 | 120,15 | 120,96 | 125 | 80x6 | 10H7 100 |
| 37 | 58,05 | 58,89 | 62 | 38x6 | 8H7 43 | 77 | 121,75 | 122,55 | 128 | 80x6 | 10H7 102 |
| 38 | 59,65 | 60,48 | 64 | 38x6 | 8H7 45 | 78 | 123,35 | 124,14 | 128 | 80x6 | 10H7 104 |
| 39 | 61,25 | 62,07 | 66 | 38x6 | 8H7 45 | 79 | 124,90 | 125,73 | 131 | 80x6 | 10H7 104 |
| 40 | 62,85 | 63,66 | 68 | 40x6 | 8H7 47 | 80 | 126,50 | 127,32 | 131 | 80x6 | 10H7 106 |
| 41 | 64,40 | 65,25 | 70 | 40x6 | 8H7 48 | 81 | 128,10 | 128,92 | 134 | 80x6 | 10H7 108 |
| 42 | 66,00 | 66,85 | 72 | 40x6 | 8H7 50 | 82 | 129,70 | 130,51 | 134 | 80x6 | 10H7 110 |
| 43 | 67,60 | 68,44 | 72 | 40x6 | 8H7 52 | 83 | 131,30 | 132,10 | 137 | 80x6 | 10H7 110 |
| 44 | 69,20 | 70,03 | 74 | 40x6 | 8H7 52 | 84 | 132,90 | 133,69 | 137 | 80x6 | 10H7 112 |
| 45 | 70,80 | 71,62 | 75 | 40x6 | 8H7 54 | 85 | 134,45 | 135,28 | 140 | 80x6 | 10H7 114 |
| 46 | 72,40 | 73,21 | 76 | 40x6 | 8H7 56 | 86 | 136,05 | 136,87 | 142 | 80x6 | 10H7 116 |
| 47 | 73,95 | 74,80 | 78 | 40x6 | 8H7 58 | 87 | 137,65 | 138,46 | 142 | 80x6 | 10H7 119 |
| 48 | 75,55 | 76,39 | 80 | 50x6 | 8H7 60 | 88 | 139,25 | 140,06 | 144 | 80x6 | 10H7 119 |
| 49 | 77,15 | 77,99 | 82 | 50x6 | 8H7 60 | 89 | 140,85 | 141,65 | 147 | 80x6 | 10H7 120 |
| 50 | 78,75 | 79,58 | 84 | 50x6 | 8H7 60 | 90 | 142,45 | 143,24 | 147 | 80x6 | 10H7 120 |
| 51 | 80,35 | 81,17 | 86 | 50x6 | 8H7 62 | 91 | 144,00 | 144,83 | 150 | 90x6 | 12H7 122 |
| 52 | 81,95 | 82,76 | 86 | 50x6 | 8H7 64 | 92 | 145,60 | 146,42 | 150 | 90x6 | 12H7 124 |
| 53 | 83,55 | 84,35 | 88 | 50x6 | 8H7 66 | 93 | 147,20 | 148,01 | 153 | 90x6 | 12H7 126 |
| 54 | 85,10 | 85,94 | 90 | 50x6 | 8H7 66 | 94 | 148,80 | 149,61 | 153 | 90x6 | 12H7 126 |
| 55 | 86,70 | 87,54 | 91 | 50x6 | 8H7 68 | 95 | 150,40 | 151,20 | 156 | 90x6 | 12H7 129 |
| 56 | 88,30 | 89,13 | 93 | 50x6 | 8H7 70 | 96 | 152,00 | 152,79 | 156 | 90x6 | 12H7 130 |
| 57 | 89,90 | 90,72 | 94 | 50x6 | 8H7 72 | 97 | 153,55 | 154,38 | 158 | 90x6 | 12H7 130 |
| 58 | 91,50 | 92,31 | 96 | 50x6 | 8H7 74 | 98 | 155,15 | 155,97 | 160 | 90x6 | 12H7 132 |
| 59 | 93,10 | 93,90 | 99 | 50x6 | 8H7 74 | 99 | 156,75 | 157,56 | 163 | 90x6 | 12H7 132 |
| 60 | 94,65 | 95,49 | 99 | 65x6 | 8H7 76 | 100 | 158,35 | 159,15 | 163 | 90x6 | 12H7 134 |
| 61 | 96,25 | 97,08 | 100 | 65x6 | 8H7 79 | 101 | 159,95 | 160,75 | 166 | 95x6 | 12H7 136 |
| 62 | 97,85 | 98,68 | 102 | 65x6 | 8H7 80 | 102 | 161,55 | 162,34 | 166 | 95x6 | 12H7 139 |
| 63 | 99,45 | 100,27 | 104 | 65x6 | 8H7 82 | 103 | 163,15 | 163,93 | 169 | 95x6 | 12H7 140 |
| 64 | 101,05 | 101,86 | 105 | 65x6 | 8H7 82 | 104 | 164,70 | 165,52 | 169 | 95x6 | 12H7 140 |
| 65 | 102,65 | 103,45 | 107 | 65x6 | 8H7 84 | 105 | 166,30 | 167,11 | 171 | 95x6 | 12H7 140 |
| 66 | 104,20 | 105,04 | 109 | 65x6 | 8H7 86 | 106 | 167,90 | 168,70 | 172 | 95x6 | 12H7 142 |
| 67 | 105,80 | 106,63 | 112 | 65x6 | 8H7 88 | 107 | 169,50 | 170,30 | 174 | 95x6 | 12H7 146 |
| 68 | 107,40 | 108,23 | 112 | 65x6 | 8H7 90 | 108 | 171,10 | 171,89 | 176 | 95x6 | 12H7 146 |
| 69 | 109,00 | 109,82 | 115 | 65x6 | 8H7 90 | 109 | 172,70 | 173,48 | 179 | 110x6 | 16H7 148 |
| 70 | 110,60 | 111,41 | 115 | 65x6 | 8H7 90 | 110 | 174,25 | 175,07 | 179 | 110x6 | 16H7 150 |
| 71 | 112,20 | 113,00 | 117 | 65x6 | 8H7 92 | 111 | 175,85 | 176,66 | 180 | 110x6 | 16H7 150 |
| 72 | 113,75 | 114,59 | 118 | 80x6 | 10H7 94 | 112 | 177,45 | 178,25 | 182 | 110x6 | 16H7 152 |
| 73 | 115,35 | 116,18 | 121 | 80x6 | 10H7 96 | 113 | 179,05 | 179,85 | 185 | 110x6 | 16H7 152 |
| 74 | 116,95 | 117,77 | 121 | 80x6 | 10H7 96 | 114 | 180,65 | 181,44 | 185 | 110x6 | 16H7 152 |

Synchronising pulleys, T profile

T 10



Stock pulleys up to $z = 40$ with flanges

Stock pulleys over $z = 48$ without flanges

Order example:

Pulley AL 50 T 10 / 30 - 2 Nabe 60x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Materials:

Synchronising pulley: AlCuMgPb
 Flange: Steel, zinc plated

| | | | | | | |
|--------------|------------|----|----|----|-------|-------|
| Belt width | b [mm] | 10 | 16 | 25 | 32(*) | 50(*) |
| Pulley width | B [mm] | 16 | 21 | 30 | 40 | 56 |
| Total width | B_N [mm] | 26 | 31 | 40 | 50 | 66 |

The stock pulleys with standard dimensioning are marked in blue (*) over $z=18$

In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 60$ mm running on the back of the belt $\varnothing 60$ mm

Drive type

without contraflexure



with contraflexure



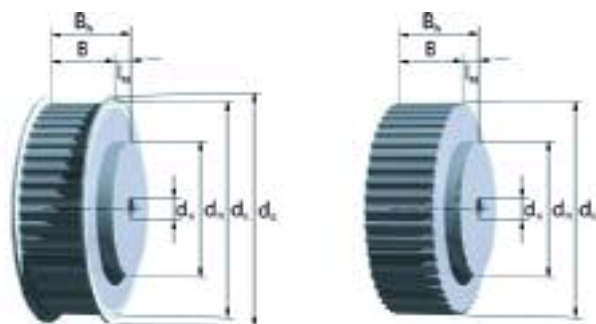
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|-----|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| *12 | 36,35 | 38,20 | 42 | 28x10 | 6H7 | 24 |
| 13 | 39,55 | 41,38 | 45 | 28x10 | 6H7 | 26 |
| 14 | 42,70 | 44,56 | 50 | 32x10 | 8H7 | 30 |
| 15 | 45,90 | 47,75 | 52 | 32x10 | 8H7 | 34 |
| 16 | 49,10 | 50,93 | 55 | 35x10 | 8H7 | 36 |
| 17 | 52,25 | 54,11 | 58 | 35x10 | 8H7 | 40 |
| 18 | 55,45 | 57,30 | 61 | 40x10 | 10H7 | 44 |
| 19 | 58,65 | 60,48 | 64 | 44x10 | 10H7 | 46 |

| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub $d_N \times l_N$ [mm] | Bore d_v [mm] | d_{max} [mm] |
|------|---------------|---------------|---------------|---------------------------------|-----------------------|-------------------|
| **20 | 61,80 | 63,66 | 68 | 46x10 | 12H7 | 50 |
| 21 | 65,00 | 66,85 | 72 | 46x10 | 12H7 | 52 |
| 22 | 68,20 | 70,03 | 74 | 50x10 | 12H7 | 56 |
| 23 | 71,35 | 73,21 | 76 | 50x10 | 12H7 | 60 |
| 24 | 74,55 | 76,39 | 80 | 58x10 | 12H7 | 62 |
| 25 | 77,75 | 79,58 | 84 | 60x10 | 12H7 | 66 |
| 26 | 80,90 | 82,76 | 86 | 60x10 | 12H7 | 68 |
| 27 | 84,10 | 85,94 | 90 | 60x10 | 12H7 | 72 |
| 28 | 87,25 | 89,13 | 93 | 60x10 | 12H7 | 76 |
| 29 | 90,45 | 92,31 | 96 | 60x10 | 12H7 | 78 |
| 30 | 93,65 | 95,49 | 99 | 60x10 | 12H7 | 82 |
| 31 | 96,80 | 98,68 | 102 | 60x10 | 12H7 | 84 |
| 32 | 100,00 | 101,86 | 106 | 65x10 | 12H7 | 88 |
| 33 | 103,20 | 105,04 | 109 | 65x10 | 12H7 | 88 |
| 34 | 106,35 | 108,23 | 112 | 65x10 | 12H7 | 92 |

| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] | z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|--|-----|------------------------|------------------------|------------------------|--|--|
| 35 | 109,55 | 111,41 | 115 | 65x10 | 16H7 96 | 75 | 236,90 | 238,73 | 242 | 140x10 | 20H7 203 |
| 36 | 112,75 | 114,59 | 118 | 70x10 | 16H7 98 | 76 | 240,05 | 241,92 | 246 | 140x10 | 20H7 207 |
| 37 | 115,90 | 117,77 | 121 | 70x10 | 16H7 101 | 77 | 243,25 | 245,10 | 249 | 160x10 | 20H7 209 |
| 38 | 119,10 | 120,96 | 125 | 70x10 | 16H7 104 | 78 | 246,40 | 248,28 | 252 | 160x10 | 20H7 213 |
| 39 | 122,30 | 124,14 | 128 | 70x10 | 16H7 106 | 79 | 249,60 | 251,46 | 255 | 160x10 | 20H7 215 |
| 40 | 125,45 | 127,32 | 131 | 80x10 | 16H7 110 | 80 | 252,80 | 254,65 | 258 | 160x10 | 20H7 219 |
| 41 | 128,65 | 130,51 | 134 | 80x10 | 16H7 110 | 81 | 255,95 | 257,83 | 262 | 160x10 | 20H7 223 |
| 42 | 131,85 | 133,69 | 137 | 80x10 | 16H7 112 | 82 | 259,15 | 261,01 | 265 | 160x10 | 20H7 225 |
| 43 | 135,00 | 136,87 | 140 | 80x10 | 16H7 114 | 83 | 262,35 | 264,20 | 268 | 160x10 | 20H7 229 |
| 44 | 138,20 | 140,06 | 144 | 90x10 | 16H7 118 | 84 | 265,50 | 267,38 | 271 | 160x10 | 20H7 231 |
| 45 | 141,40 | 143,24 | 147 | 90x10 | 16H7 120 | 85 | 268,70 | 270,56 | 274 | 160x10 | 20H7 235 |
| 46 | 144,50 | 146,42 | 150 | 90x10 | 16H7 122 | 86 | 271,90 | 273,75 | 277 | 160x10 | 20H7 239 |
| 47 | 147,75 | 149,61 | 153 | 90x10 | 16H7 122 | 87 | 275,05 | 276,93 | 281 | 160x10 | 20H7 241 |
| 48 | 150,95 | 152,79 | 156 | 95x10 | 16H7 124 | 88 | 278,25 | 280,11 | 284 | 160x10 | 20H7 245 |
| 49 | 154,10 | 155,97 | 160 | 95x10 | 16H7 126 | 89 | 281,45 | 283,30 | 287 | 160x10 | 20H7 247 |
| 50 | 157,30 | 159,15 | 163 | 95x10 | 16H7 130 | 90 | 284,60 | 286,48 | 290 | 160x10 | 20H7 251 |
| 51 | 160,50 | 162,34 | 166 | 95x10 | 16H7 134 | 91 | 287,80 | 289,66 | 293 | 160x10 | 20H7 255 |
| 52 | 163,65 | 165,52 | 169 | 95x10 | 16H7 136 | 92 | 291,00 | 292,85 | 296 | 160x10 | 20H7 257 |
| 53 | 166,85 | 168,70 | 172 | 95x10 | 16H7 140 | 93 | 294,15 | 296,03 | 300 | 160x10 | 20H7 261 |
| 54 | 170,05 | 171,89 | 176 | 110x10 | 16H7 144 | 94 | 297,35 | 299,21 | 302 | 160x10 | 20H7 263 |
| 55 | 173,20 | 175,07 | 179 | 110x10 | 16H7 146 | 95 | 300,55 | 302,39 | 306 | 160x10 | 24H7 267 |
| 56 | 176,40 | 178,25 | 182 | 110x10 | 16H7 150 | 96 | 303,70 | 305,58 | 310 | 180x10 | 24H7 269 |
| 57 | 179,60 | 181,44 | 185 | 110x10 | 16H7 152 | 97 | 306,90 | 308,76 | 312 | 180x10 | 24H7 273 |
| 58 | 182,75 | 184,62 | 188 | 110x10 | 16H7 156 | 98 | 310,10 | 311,94 | 315 | 180x10 | 24H7 279 |
| 59 | 185,95 | 187,80 | 191 | 110x10 | 16H7 160 | 99 | 313,25 | 315,13 | 318 | 180x10 | 24H7 283 |
| 60 | 189,15 | 190,99 | 195 | 110x10 | 16H7 162 | 100 | 316,45 | 318,31 | 322 | 180x10 | 24H7 285 |
| 61 | 192,30 | 194,17 | 198 | 110x10 | 16H7 164 | 101 | 319,65 | 321,49 | 325 | 180x10 | 24H7 289 |
| 62 | 195,50 | 197,35 | 201 | 110x10 | 16H7 166 | 102 | 322,80 | 324,68 | 329 | 180x10 | 24H7 293 |
| 63 | 198,70 | 200,54 | 204 | 140x10 | 16H7 170 | 103 | 326,00 | 327,86 | 332 | 180x10 | 24H7 295 |
| 64 | 201,85 | 203,72 | 207 | 140x10 | 16H7 171 | 104 | 329,20 | 331,04 | 335 | 180x10 | 24H7 299 |
| 65 | 205,05 | 206,90 | 210 | 140x10 | 16H7 174 | 105 | 332,35 | 334,23 | 338 | 180x10 | 24H7 301 |
| 66 | 208,25 | 210,08 | 214 | 140x10 | 16H7 175 | 106 | 335,55 | 337,41 | 341 | 180x10 | 24H7 305 |
| 67 | 211,40 | 213,27 | 217 | 140x10 | 16H7 177 | 107 | 338,75 | 340,59 | 344 | 180x10 | 24H7 309 |
| 68 | 214,60 | 216,45 | 220 | 140x10 | 16H7 181 | 108 | 341,90 | 343,77 | 348 | 180x10 | 24H7 311 |
| 69 | 217,80 | 219,63 | 223 | 140x10 | 16H7 185 | 109 | 345,10 | 346,96 | 351 | 180x10 | 24H7 315 |
| 70 | 220,95 | 222,82 | 226 | 140x10 | 16H7 187 | 110 | 348,30 | 350,14 | 354 | 180x10 | 24H7 317 |
| 71 | 224,15 | 226,00 | 230 | 140x10 | 16H7 191 | 111 | 351,45 | 353,32 | 357 | 180x10 | 24H7 321 |
| 72 | 227,35 | 229,18 | 233 | 140x10 | 16H7 193 | 112 | 354,65 | 356,51 | 360 | 180x10 | 24H7 323 |
| 73 | 230,50 | 232,37 | 236 | 140x10 | 20H7 197 | 113 | 357,85 | 359,69 | 363 | 180x10 | 24H7 327 |
| 74 | 233,70 | 235,55 | 239 | 140x10 | 20H7 201 | 114 | 361,00 | 362,87 | 367 | 180x10 | 24H7 330 |

Synchronising pulleys, T profile

T 20



Order example:

Pulley AL 70 T 20 / 50 - 0 Nabe 140x10
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

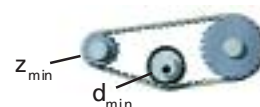
Materials:

Synchronising pulley: AlCuMgPb
 Flange: Steel, zinc plated

| | | | | | | | |
|--------------|------------|----|----|----|----|----|-----|
| Belt width | b [mm] | 16 | 25 | 32 | 50 | 75 | 100 |
| Pulley width | B [mm] | 23 | 32 | 40 | 60 | 85 | 110 |
| Total width | B_N [mm] | 33 | 42 | 50 | 70 | 95 | 120 |

Drive type

without contraflexure



with contraflexure



In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 120$ mm running on the back of the belt $\varnothing 120$

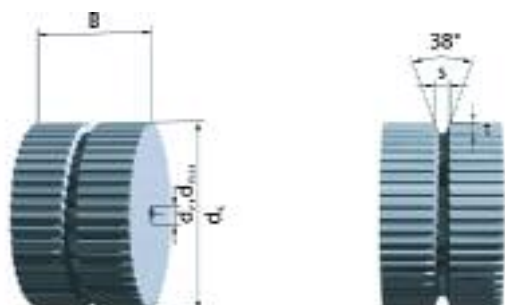
| mm | Hub | | | Bore | | |
|------|------------|------------|------------|-----------------------|------------|----------------|
| z | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] |
| *15 | 92,65 | 95,49 | 102 | 60x10 | 12H7 | 67 |
| 16 | 99,00 | 101,86 | 109 | 70x10 | 12H7 | 74 |
| 17 | 105,35 | 108,23 | 115 | 70x10 | 12H7 | 80 |
| 18 | 111,75 | 114,59 | 121 | 70x10 | 12H7 | 86 |
| 19 | 118,10 | 120,96 | 128 | 80x10 | 12H7 | 93 |
| 20 | 124,45 | 127,32 | 134 | 90x10 | 16H7 | 100 |
| 21 | 130,85 | 133,69 | 140 | 90x10 | 16H7 | 105 |
| 22 | 137,20 | 140,06 | 147 | 90x10 | 16H7 | 112 |
| 23 | 143,55 | 146,42 | 153 | 90x10 | 16H7 | 118 |
| 24 | 149,95 | 152,79 | 160 | 95x10 | 16H7 | 125 |
| **25 | 156,30 | 159,15 | 166 | 95x10 | 16H7 | 131 |
| ,26 | 162,65 | 165,52 | 172 | 95x10 | 16H7 | 137 |
| 27 | 169,05 | 171,89 | 179 | 110x10 | 16H7 | 144 |
| 28 | 175,40 | 178,25 | 185 | 110x10 | 16H7 | 150 |
| 29 | 181,75 | 184,62 | 192 | 110x10 | 16H7 | 156 |

| mm | Hub | | | Bore | | |
|-----|------------|------------|------------|-----------------------|------------|----------------|
| z | d_k [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] |
| 30 | 188,15 | 190,99 | 198 | 110x10 | 16H7 | 163 |
| 31 | 194,50 | 197,35 | 204 | 110x10 | 16H7 | 169 |
| 32 | 200,85 | 203,72 | 210 | 110x10 | 16H7 | 175 |
| 33 | 207,25 | 210,08 | 217 | 110x10 | 16H7 | 182 |
| 34 | 213,60 | 216,45 | 223 | 110x10 | 16H7 | 188 |
| 35 | 219,95 | 222,82 | 229 | 110x10 | 16H7 | 195 |
| 36 | 226,35 | 229,18 | 236 | 110x10 | 18H7 | 201 |
| 37 | 232,70 | 235,55 | 242 | 110x10 | 18H7 | 207 |
| 38 | 239,05 | 241,92 | 249 | 110x10 | 18H7 | 214 |
| 39 | 245,40 | 248,28 | 255 | 110x10 | 18H7 | 220 |
| 40 | 251,80 | 254,65 | 261 | 110x10 | 18H7 | 226 |
| 41 | 258,15 | 261,01 | 268 | 130x10 | 18H7 | 233 |
| 42 | 264,50 | 267,38 | 274 | 130x10 | 18H7 | 239 |
| 43 | 270,90 | 273,75 | 280 | 130x10 | 18H7 | 245 |
| 44 | 277,25 | 280,11 | 287 | 130x10 | 18H7 | 252 |

| z | Hub | | | | | | Bore | | | | | | |
|----|---------------|---------------|---------------|--------------------------|-------|-------------------|------|---------------|---------------|---------------|--------------------------|-------|-------------------|
| | d_K [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] | z | d_K [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V | d_{max} [mm] |
| 45 | 283,60 | 286,48 | 293 | 130x10 | 18H7 | 258 | | 80 | 506,45 | 509,30 | 516 | - | 30H7 |
| 46 | 290,00 | 292,85 | 300 | 130x10 | 18H7 | 265 | 81 | 512,80 | 515,66 | 522 | - | 30H7 | 482 |
| 47 | 296,35 | 299,21 | 306 | 130x10 | 18H7 | 271 | 82 | 519,15 | 522,03 | 529 | - | 30H7 | 489 |
| 48 | 302,70 | 305,58 | 312 | 130x10 | 18H7 | 278 | 83 | 525,55 | 528,39 | 535 | - | 30H7 | 495 |
| 49 | 309,10 | 311,94 | 319 | 130x10 | 20H7 | 284 | 84 | 531,90 | 534,76 | 541 | - | 30H7 | 501 |
| 50 | 315,45 | 318,31 | 325 | 140x10 | 20H7 | 290 | 85 | 538,25 | 541,13 | 548 | - | 30H7 | 503 |
| 51 | 321,80 | 324,68 | 331 | 140x10 | 20H7 | 296 | 86 | 544,65 | 547,49 | 554 | - | 30H7 | 509 |
| 52 | 328,20 | 331,04 | 338 | 140x10 | 20H7 | 303 | 87 | 551,00 | 553,86 | 561 | - | 30H7 | 516 |
| 53 | 334,55 | 337,41 | 344 | 140x10 | 20H7 | 310 | 88 | 557,35 | 560,23 | 567 | - | 30H7 | 522 |
| 54 | 340,90 | 343,77 | 350 | 140x10 | 20H7 | 315 | 89 | 563,70 | 566,59 | 573 | - | 30H7 | 528 |
| 55 | 347,30 | 350,14 | 357 | 140x10 | 20H7 | 322 | 90 | 570,10 | 572,96 | 580 | - | 30H7 | 535 |
| 56 | 353,65 | 356,51 | 363 | 140x10 | 20H7 | 328 | 91 | 576,45 | 579,32 | 586 | - | 30H7 | 541 |
| 57 | 360,00 | 362,87 | 370 | 140x10 | 20H7 | 335 | 92 | 582,80 | 585,69 | 592 | - | 30H7 | 548 |
| 58 | 366,40 | 396,24 | 376 | 140x10 | 20H7 | 341 | 93 | 589,20 | 592,06 | 599 | - | 30H7 | 554 |
| 59 | 372,75 | 375,61 | 382 | 140x10 | 20H7 | 347 | 94 | 595,55 | 598,42 | 605 | - | 30H7 | 580 |
| 60 | 379,10 | 381,97 | 389 | 140x10 | 20H7 | 354 | 95 | 601,90 | 604,79 | 611 | - | 40H7 | 566 |
| 61 | 385,50 | 388,34 | 395 | 140x10 | 20H7 | 360 | 96 | 608,30 | 611,15 | 618 | - | 40H7 | 573 |
| 62 | 391,85 | 394,70 | 401 | 140x10 | 20H7 | 366 | 97 | 614,65 | 617,52 | 624 | - | 40H7 | 579 |
| 63 | 398,20 | 401,07 | 408 | 140x10 | 20H7 | 373 | 98 | 621,00 | 623,89 | 631 | - | 40H7 | 586 |
| 64 | 404,55 | 407,44 | 414 | 140x10 | 20H7 | 379 | 99 | 627,40 | 630,25 | 637 | - | 40H7 | 592 |
| 65 | 410,95 | 413,80 | 420 | 140x10 | 20H7 | 385 | 100 | 633,75 | 636,62 | 643 | - | 40H7 | 598 |
| 66 | 417,30 | 420,17 | 427 | 140x10 | 20H7 | 392 | 101 | 640,10 | 642,99 | 650 | - | 40H7 | 605 |
| 67 | 423,65 | 426,54 | 433 | 140x10 | 20H7 | 398 | 102 | 646,50 | 649,35 | 656 | - | 40H7 | 611 |
| 68 | 430,05 | 432,90 | 440 | 140x10 | 20H7 | 405 | 103 | 652,85 | 655,72 | 662 | - | 40H7 | 617 |
| 69 | 436,40 | 439,27 | 446 | 140x10 | 20H7 | 406 | 104 | 659,20 | 662,08 | 669 | - | 40H7 | 624 |
| 70 | 442,75 | 445,63 | 452 | 140x10 | 20H7 | 412 | 105 | 665,60 | 668,45 | 675 | - | 40H7 | 630 |
| 71 | 449,15 | 452,00 | 459 | 140x10 | 20H7 | 419 | 106 | 671,95 | 674,82 | 681 | - | 40H7 | 636 |
| 72 | 455,50 | 458,37 | 465 | 140x10 | 20H7 | 425 | 107 | 678,30 | 681,18 | 688 | - | 40H7 | 643 |
| 73 | 461,85 | 464,73 | 471 | 160x10 | 30H7 | 431 | 108 | 684,70 | 687,55 | 694 | - | 40H7 | 649 |
| 74 | 468,25 | 471,10 | 478 | 160x10 | 30H7 | 438 | 109 | 691,05 | 693,92 | 701 | - | 40H7 | 656 |
| 75 | 474,60 | 477,46 | 484 | 160x10 | 30H7 | 444 | 110 | 697,40 | 700,28 | 707 | - | 40H7 | 662 |
| 76 | 480,95 | 483,83 | 490 | 160x10 | 30H7 | 450 | 111 | 703,80 | 706,65 | 713 | - | 40H7 | 663 |
| 77 | 487,35 | 490,20 | 497 | 160x10 | 30H7 | 457 | 112 | 710,15 | 713,01 | 720 | - | 40H7 | 670 |
| 78 | 493,70 | 496,56 | 503 | 160x10 | 30H7 | 463 | 113 | 716,50 | 719,38 | 726 | - | 40H7 | 676 |
| 79 | 500,05 | 502,93 | 510 | 160x10 | 30H7 | 470 | 114 | 722,85 | 725,75 | 732 | - | 40H7 | 682 |

Self-tracking pulleys

ATK 5 K6



Order example:

Pulley Al 55 ATK 5 K6 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | |
|--------------|--------|----|----|----|
| Belt width | b [mm] | 32 | 50 | 75 |
| Pulley width | B [mm] | 37 | 55 | 80 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

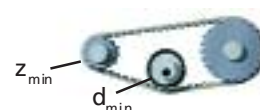
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø30 mm running on the back of the belt Ø60 mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|------|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| *20 | 30,61 | 31,83 | 6,5 | 5 | 6H7 | 11 |
| 21 | 32,20 | 33,42 | 6,5 | 5 | 6H7 | 12 |
| 22 | 33,79 | 35,01 | 6,5 | 5 | 8H7 | 14 |
| 23 | 35,39 | 36,61 | 6,5 | 5 | 8H7 | 15 |
| 24 | 36,98 | 38,20 | 6,5 | 5 | 8H7 | 17 |
| **25 | 38,57 | 39,79 | 6,5 | 5 | 8H7 | 19 |
| 26 | 40,16 | 41,38 | 6,5 | 5 | 8H7 | 20 |
| 27 | 41,75 | 42,97 | 6,5 | 5 | 8H7 | 22 |
| 28 | 43,34 | 44,56 | 6,5 | 5 | 8H7 | 23 |
| 29 | 44,93 | 46,15 | 6,5 | 5 | 8H7 | 25 |

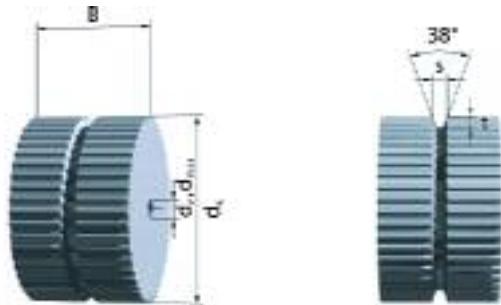
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 30 | 46,53 | 47,75 | 6,5 | 5 | 8H7 | 27 |
| 31 | 48,12 | 49,34 | 6,5 | 5 | 8H7 | 28 |
| 32 | 49,71 | 50,93 | 6,5 | 5 | 8H7 | 30 |
| 33 | 51,30 | 52,52 | 6,5 | 5 | 8H7 | 31 |
| 34 | 52,89 | 54,11 | 6,5 | 5 | 8H7 | 33 |
| 35 | 54,48 | 55,70 | 6,5 | 5 | 8H7 | 34 |
| 36 | 56,08 | 57,30 | 6,5 | 5 | 8H7 | 36 |
| 37 | 57,67 | 58,89 | 6,5 | 5 | 8H7 | 38 |
| 38 | 59,26 | 60,48 | 6,5 | 5 | 8H7 | 39 |
| 39 | 60,85 | 62,07 | 6,5 | 5 | 8H7 | 41 |
| 40 | 62,44 | 63,66 | 6,5 | 5 | 12H7 | 42 |
| 41 | 64,03 | 65,25 | 6,5 | 5 | 12H7 | 44 |
| 42 | 65,63 | 66,85 | 6,5 | 5 | 12H7 | 46 |
| 43 | 67,22 | 68,44 | 6,5 | 5 | 12H7 | 47 |
| 44 | 68,81 | 70,03 | 6,5 | 5 | 12H7 | 49 |

ATK 5 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|-----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 70,40 | 71,62 | 6,5 | 5 | 12H7 | 50 | 80 | 126,10 | 127,32 | 6,5 | 5 | 12H7 | 106 |
| 46 | 71,99 | 73,21 | 6,5 | 5 | 12H7 | 52 | 81 | 127,70 | 128,92 | 6,5 | 5 | 12H7 | 108 |
| 47 | 73,58 | 47,80 | 6,5 | 5 | 12H7 | 54 | 82 | 129,29 | 130,51 | 6,5 | 5 | 12H7 | 109 |
| 48 | 75,17 | 76,39 | 6,5 | 5 | 12H7 | 55 | 83 | 130,88 | 132,10 | 6,5 | 5 | 12H7 | 111 |
| 49 | 76,77 | 77,99 | 6,5 | 5 | 12H7 | 57 | 84 | 132,47 | 133,69 | 6,5 | 5 | 12H7 | 112 |
| 50 | 78,36 | 79,58 | 6,5 | 5 | 12H7 | 58 | 85 | 134,06 | 135,28 | 6,5 | 5 | 12H7 | 114 |
| 51 | 79,95 | 81,17 | 6,5 | 5 | 12H7 | 60 | 86 | 135,65 | 136,87 | 6,5 | 5 | 12H7 | 116 |
| 52 | 81,54 | 82,76 | 6,5 | 5 | 12H7 | 62 | 87 | 137,24 | 138,46 | 6,5 | 5 | 12H7 | 117 |
| 53 | 83,13 | 84,35 | 6,5 | 5 | 12H7 | 63 | 88 | 138,84 | 140,06 | 6,5 | 5 | 12H7 | 119 |
| 54 | 84,72 | 85,94 | 6,5 | 5 | 12H7 | 65 | 89 | 140,43 | 141,65 | 6,5 | 5 | 12H7 | 120 |
| 55 | 86,32 | 87,54 | 6,5 | 5 | 12H7 | 66 | 90 | 142,02 | 143,24 | 6,5 | 5 | 12H7 | 122 |
| 56 | 87,91 | 89,13 | 6,5 | 5 | 12H7 | 68 | 91 | 143,61 | 144,83 | 6,5 | 5 | 12H7 | 124 |
| 57 | 89,50 | 90,72 | 6,5 | 5 | 12H7 | 69 | 92 | 145,20 | 146,42 | 6,5 | 5 | 12H7 | 125 |
| 58 | 91,09 | 92,31 | 6,5 | 5 | 12H7 | 71 | 93 | 146,79 | 148,01 | 6,5 | 5 | 12H7 | 127 |
| 59 | 92,68 | 93,90 | 6,5 | 5 | 12H7 | 73 | 94 | 148,39 | 149,61 | 6,5 | 5 | 12H7 | 128 |
| 60 | 94,27 | 95,49 | 6,5 | 5 | 12H7 | 74 | 95 | 149,98 | 151,20 | 6,5 | 5 | 12H7 | 130 |
| 61 | 95,86 | 97,08 | 6,5 | 5 | 12H7 | 76 | 96 | 151,57 | 152,79 | 6,5 | 5 | 12H7 | 132 |
| 62 | 97,46 | 98,68 | 6,5 | 5 | 12H7 | 77 | 97 | 153,16 | 154,38 | 6,5 | 5 | 12H7 | 133 |
| 63 | 99,05 | 100,27 | 6,5 | 5 | 12H7 | 79 | 98 | 154,75 | 155,97 | 6,5 | 5 | 12H7 | 135 |
| 64 | 100,64 | 101,86 | 6,5 | 5 | 12H7 | 81 | 99 | 156,34 | 157,56 | 6,5 | 5 | 12H7 | 136 |
| 65 | 102,23 | 103,45 | 6,5 | 5 | 12H7 | 82 | 100 | 157,93 | 159,15 | 6,5 | 5 | 12H7 | 138 |
| 66 | 103,82 | 105,04 | 6,5 | 5 | 12H7 | 84 | 101 | 159,53 | 160,75 | 6,5 | 5 | 12H7 | 140 |
| 67 | 105,41 | 106,63 | 6,5 | 5 | 12H7 | 85 | 102 | 161,12 | 162,34 | 6,5 | 5 | 12H7 | 141 |
| 68 | 107,01 | 108,23 | 6,5 | 5 | 12H7 | 87 | 103 | 162,71 | 163,93 | 6,5 | 5 | 12H7 | 143 |
| 69 | 108,60 | 109,82 | 6,5 | 5 | 12H7 | 89 | 104 | 164,30 | 165,52 | 6,5 | 5 | 12H7 | 144 |
| 70 | 110,19 | 111,41 | 6,5 | 5 | 12H7 | 90 | 105 | 165,89 | 167,11 | 6,5 | 5 | 12H7 | 146 |
| 71 | 111,78 | 113,00 | 6,5 | 5 | 12H7 | 92 | 106 | 167,48 | 168,70 | 6,5 | 5 | 12H7 | 147 |
| 72 | 113,37 | 114,59 | 6,5 | 5 | 12H7 | 93 | 107 | 169,08 | 170,30 | 6,5 | 5 | 12H7 | 149 |
| 73 | 114,96 | 116,18 | 6,5 | 5 | 12H7 | 95 | 108 | 170,67 | 171,89 | 6,5 | 5 | 12H7 | 151 |
| 74 | 116,55 | 117,77 | 6,5 | 5 | 12H7 | 97 | 109 | 172,26 | 173,48 | 6,5 | 5 | 12H7 | 152 |
| 75 | 118,15 | 119,37 | 6,5 | 5 | 12H7 | 98 | 110 | 173,85 | 175,07 | 6,5 | 5 | 12H7 | 154 |
| 76 | 119,74 | 120,96 | 6,5 | 5 | 12H7 | 100 | 111 | 175,44 | 176,66 | 6,5 | 5 | 12H7 | 155 |
| 77 | 121,33 | 122,55 | 6,5 | 5 | 12H7 | 101 | 112 | 177,03 | 178,25 | 6,5 | 5 | 12H7 | 157 |
| 78 | 122,92 | 124,14 | 6,5 | 5 | 12H7 | 103 | 113 | 178,63 | 179,85 | 6,5 | 5 | 12H7 | 159 |
| 79 | 124,51 | 125,73 | 6,5 | 5 | 12H7 | 105 | 114 | 180,22 | 181,44 | 6,5 | 5 | 12H7 | 160 |

Self-tracking pulleys

ATK 10 K13



Order example:

Pulley Al 55 ATK 10 K13 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | | | |
|--------------|--------|----|----|----|-----|-----|
| Belt width | b [mm] | 32 | 50 | 75 | 100 | 150 |
| Pulley width | B [mm] | 40 | 60 | 85 | 110 | 160 |

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø60 mm running on the back of the belt Ø120mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|------|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| *20 | 61,84 | 63,66 | 13,5 | 7,5 | 12H7 | 50 |
| 21 | 65,03 | 66,85 | 13,5 | 7,5 | 12H7 | 52 |
| 22 | 68,21 | 70,03 | 13,5 | 7,5 | 12H7 | 56 |
| 23 | 71,39 | 73,21 | 13,5 | 7,5 | 12H7 | 60 |
| 24 | 74,57 | 76,39 | 13,5 | 7,5 | 12H7 | 62 |
| **25 | 77,76 | 79,58 | 13,5 | 7,5 | 12H7 | 66 |
| ,26 | 80,94 | 82,76 | 13,5 | 7,5 | 12H7 | 68 |
| 27 | 84,12 | 85,94 | 13,5 | 7,5 | 12H7 | 72 |
| 28 | 87,31 | 89,13 | 13,5 | 7,5 | 12H7 | 76 |
| 29 | 90,49 | 92,31 | 13,5 | 7,5 | 12H7 | 78 |

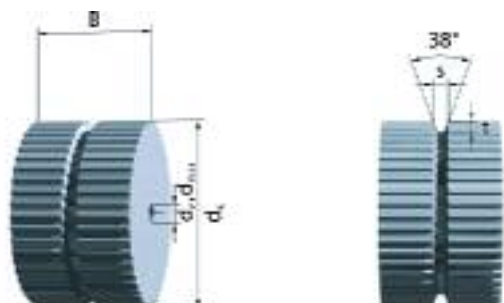
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 30 | 93,67 | 95,49 | 13,5 | 7,5 | 12H7 | 82 |
| 31 | 96,86 | 98,68 | 13,5 | 7,5 | 12H7 | 84 |
| 32 | 100,04 | 101,86 | 13,5 | 7,5 | 12H7 | 88 |
| 33 | 103,22 | 105,04 | 13,5 | 7,5 | 12H7 | 88 |
| 34 | 106,41 | 108,23 | 13,5 | 7,5 | 12H7 | 92 |
| 35 | 109,59 | 111,41 | 13,5 | 7,5 | 12H7 | 96 |
| 36 | 112,77 | 114,59 | 13,5 | 7,5 | 16H7 | 98 |
| 37 | 115,95 | 117,77 | 13,5 | 7,5 | 16H7 | 101 |
| 38 | 119,14 | 120,96 | 13,5 | 7,5 | 16H7 | 104 |
| 39 | 122,32 | 124,14 | 13,5 | 7,5 | 16H7 | 106 |
| 40 | 125,50 | 127,32 | 13,5 | 7,5 | 16H7 | 110 |
| 41 | 128,69 | 130,51 | 13,5 | 7,5 | 16H7 | 110 |
| 42 | 131,87 | 133,69 | 13,5 | 7,5 | 16H7 | 112 |
| 43 | 135,05 | 136,87 | 13,5 | 7,5 | 16H7 | 114 |
| 44 | 138,24 | 140,06 | 13,5 | 7,5 | 16H7 | 118 |

ATK 10 K13

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|-----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 141,42 | 143,24 | 13,5 | 7,5 | 16H7 | 120 | 80 | 252,83 | 254,65 | 13,5 | 7,5 | 20H7 | 219 |
| 46 | 144,60 | 146,42 | 13,5 | 7,5 | 16H7 | 122 | 81 | 256,01 | 257,83 | 13,5 | 7,5 | 20H7 | 223 |
| 47 | 147,79 | 149,61 | 13,5 | 7,5 | 16H7 | 122 | 82 | 259,19 | 261,01 | 13,5 | 7,5 | 20H7 | 225 |
| 48 | 150,97 | 152,79 | 13,5 | 7,5 | 16H7 | 124 | 83 | 262,38 | 264,20 | 13,5 | 7,5 | 20H7 | 229 |
| 49 | 154,15 | 155,97 | 13,5 | 7,5 | 16H7 | 126 | 84 | 265,56 | 267,38 | 13,5 | 7,5 | 20H7 | 231 |
| 50 | 157,33 | 159,15 | 13,5 | 7,5 | 16H7 | 130 | 85 | 268,74 | 270,56 | 13,5 | 7,5 | 20H7 | 235 |
| 51 | 160,52 | 162,34 | 13,5 | 7,5 | 16H7 | 134 | 86 | 271,93 | 273,75 | 13,5 | 7,5 | 20H7 | 239 |
| 52 | 163,70 | 165,52 | 13,5 | 7,5 | 16H7 | 136 | 87 | 275,11 | 276,93 | 13,5 | 7,5 | 20H7 | 241 |
| 53 | 166,88 | 168,70 | 13,5 | 7,5 | 16H7 | 140 | 88 | 278,29 | 280,11 | 13,5 | 7,5 | 20H7 | 245 |
| 54 | 170,07 | 171,89 | 13,5 | 7,5 | 16H7 | 144 | 89 | 281,48 | 283,30 | 13,5 | 7,5 | 20H7 | 247 |
| 55 | 173,25 | 175,07 | 13,5 | 7,5 | 16H7 | 146 | 90 | 284,66 | 286,48 | 13,5 | 7,5 | 20H7 | 251 |
| 56 | 176,43 | 178,25 | 13,5 | 7,5 | 16H7 | 150 | 91 | 287,84 | 289,66 | 13,5 | 7,5 | 20H7 | 255 |
| 57 | 179,62 | 181,44 | 13,5 | 7,5 | 16H7 | 152 | 92 | 291,03 | 292,85 | 13,5 | 7,5 | 20H7 | 257 |
| 58 | 182,80 | 184,62 | 13,5 | 7,5 | 16H7 | 156 | 93 | 294,21 | 296,03 | 13,5 | 7,5 | 20H7 | 261 |
| 59 | 185,98 | 187,80 | 13,5 | 7,5 | 16H7 | 160 | 94 | 297,39 | 299,21 | 13,5 | 7,5 | 20H7 | 263 |
| 60 | 189,17 | 190,99 | 13,5 | 7,5 | 16H7 | 162 | 95 | 300,57 | 302,39 | 13,5 | 7,5 | 24H7 | 267 |
| 61 | 192,35 | 194,17 | 13,5 | 7,5 | 16H7 | 164 | 96 | 303,76 | 305,58 | 13,5 | 7,5 | 24H7 | 269 |
| 62 | 195,53 | 197,35 | 13,5 | 7,5 | 16H7 | 166 | 97 | 306,94 | 308,76 | 13,5 | 7,5 | 24H7 | 273 |
| 63 | 198,72 | 200,54 | 13,5 | 7,5 | 16H7 | 170 | 98 | 310,12 | 311,94 | 13,5 | 7,5 | 24H7 | 279 |
| 64 | 201,90 | 203,72 | 13,5 | 7,5 | 16H7 | 171 | 99 | 313,31 | 315,13 | 13,5 | 7,5 | 24H7 | 283 |
| 65 | 205,08 | 206,90 | 13,5 | 7,5 | 16H7 | 174 | 100 | 316,49 | 318,31 | 13,5 | 7,5 | 24H7 | 285 |
| 66 | 208,26 | 210,08 | 13,5 | 7,5 | 16H7 | 175 | 101 | 319,67 | 321,49 | 13,5 | 7,5 | 24H7 | 289 |
| 67 | 211,45 | 213,27 | 13,5 | 7,5 | 16H7 | 177 | 102 | 322,86 | 324,68 | 13,5 | 7,5 | 24H7 | 293 |
| 68 | 214,63 | 216,45 | 13,5 | 7,5 | 16H7 | 181 | 103 | 326,04 | 327,86 | 13,5 | 7,5 | 24H7 | 295 |
| 69 | 217,81 | 219,63 | 13,5 | 7,5 | 16H7 | 185 | 104 | 329,22 | 331,04 | 13,5 | 7,5 | 24H7 | 299 |
| 70 | 221,00 | 222,82 | 13,5 | 7,5 | 16H7 | 187 | 105 | 332,41 | 334,23 | 13,5 | 7,5 | 24H7 | 301 |
| 71 | 224,18 | 226,00 | 13,5 | 7,5 | 16H7 | 191 | 106 | 335,59 | 337,41 | 13,5 | 7,5 | 24H7 | 305 |
| 72 | 227,36 | 229,18 | 13,5 | 7,5 | 16H7 | 193 | 107 | 338,77 | 340,59 | 13,5 | 7,5 | 24H7 | 309 |
| 73 | 230,55 | 232,37 | 13,5 | 7,5 | 20H7 | 197 | 108 | 341,95 | 343,77 | 13,5 | 7,5 | 24H7 | 311 |
| 74 | 233,73 | 235,55 | 13,5 | 7,5 | 20H7 | 201 | 109 | 345,14 | 346,96 | 13,5 | 7,5 | 24H7 | 315 |
| 75 | 236,91 | 238,73 | 13,5 | 7,5 | 20H7 | 203 | 110 | 348,32 | 350,14 | 13,5 | 7,5 | 24H7 | 317 |
| 76 | 240,10 | 241,92 | 13,5 | 7,5 | 20H7 | 207 | 111 | 351,50 | 353,32 | 13,5 | 7,5 | 24H7 | 321 |
| 77 | 243,28 | 245,10 | 13,5 | 7,5 | 20H7 | 209 | 112 | 354,69 | 356,51 | 13,5 | 7,5 | 24H7 | 323 |
| 78 | 246,46 | 248,28 | 13,5 | 7,5 | 20H7 | 213 | 113 | 357,87 | 359,69 | 13,5 | 7,5 | 24H7 | 327 |
| 79 | 249,64 | 251,46 | 13,5 | 7,5 | 20H7 | 215 | 114 | 361,05 | 362,87 | 13,5 | 7,5 | 24H7 | 330 |

Self-tracking pulleys

ATK 10 K6



Order example:

Pulley Al 55 ATK 10 K6 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | |
|--------------|--------|----|-----|
| Belt width | b [mm] | 50 | 100 |
| Pulley width | B [mm] | 55 | 105 |

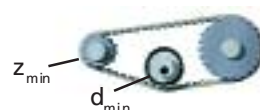
The stock pulleys with standard dimensioning are marked in **blue**

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø80 mm

Drive type

without contraflexure



with contraflexure



running on the back of the belt Ø120

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|------|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| *20 | 61,84 | 63,66 | 6,5 | 5 | 12H7 | 44 |
| 21 | 65,03 | 66,85 | 6,5 | 5 | 12H7 | 47 |
| 22 | 68,21 | 70,03 | 6,5 | 5 | 12H7 | 51 |
| 23 | 71,39 | 73,21 | 6,5 | 5 | 12H7 | 53 |
| 24 | 74,57 | 76,39 | 6,5 | 5 | 12H7 | 56 |
| **25 | 77,76 | 79,58 | 6,5 | 5 | 12H7 | 59 |
| 26 | 80,94 | 82,76 | 6,5 | 5 | 12H7 | 62 |
| 27 | 84,12 | 85,94 | 6,5 | 5 | 12H7 | 66 |
| 28 | 87,31 | 89,13 | 6,5 | 5 | 12H7 | 69 |
| 29 | 90,49 | 92,31 | 6,5 | 5 | 12H7 | 72 |

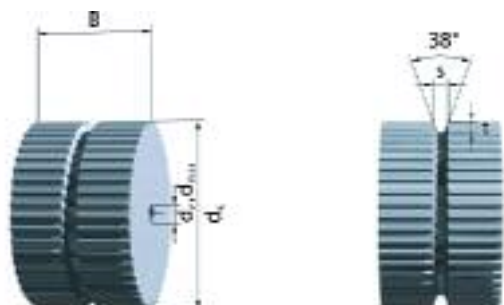
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 30 | 93,67 | 95,49 | 6,5 | 5 | 12H7 | 75 |
| 31 | 96,86 | 98,68 | 6,5 | 5 | 12H7 | 78 |
| 32 | 100,04 | 101,86 | 6,5 | 5 | 12H7 | 82 |
| 33 | 103,22 | 105,04 | 6,5 | 5 | 12H7 | 85 |
| 34 | 106,41 | 108,23 | 6,5 | 5 | 12H7 | 88 |
| 35 | 109,59 | 111,41 | 6,5 | 5 | 12H7 | 91 |
| 36 | 112,77 | 114,59 | 6,5 | 5 | 16H7 | 94 |
| 37 | 115,95 | 117,77 | 6,5 | 5 | 16H7 | 98 |
| 38 | 119,14 | 120,96 | 6,5 | 5 | 16H7 | 101 |
| 39 | 122,32 | 124,14 | 6,5 | 5 | 16H7 | 104 |
| 40 | 125,50 | 127,32 | 6,5 | 5 | 16H7 | 109 |
| 41 | 128,69 | 130,51 | 6,5 | 5 | 16H7 | 112 |
| 42 | 131,87 | 133,69 | 6,5 | 5 | 16H7 | 115 |
| 43 | 135,05 | 136,87 | 6,5 | 5 | 16H7 | 118 |
| 44 | 138,24 | 140,06 | 6,5 | 5 | 16H7 | 122 |

ATK 10 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|-----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 141,42 | 143,24 | 6,5 | 5 | 16H7 | 123 | 80 | 252,83 | 254,65 | 6,5 | 5 | 20H7 | 234 |
| 46 | 144,60 | 146,42 | 6,5 | 5 | 16H7 | 126 | 81 | 256,01 | 257,83 | 6,5 | 5 | 20H7 | 238 |
| 47 | 147,79 | 149,61 | 6,5 | 5 | 16H7 | 129 | 82 | 259,19 | 261,01 | 6,5 | 5 | 20H7 | 241 |
| 48 | 150,97 | 152,79 | 6,5 | 5 | 16H7 | 132 | 83 | 262,38 | 264,20 | 6,5 | 5 | 20H7 | 244 |
| 49 | 154,15 | 155,97 | 6,5 | 5 | 16H7 | 136 | 84 | 265,56 | 267,38 | 6,5 | 5 | 20H7 | 247 |
| 50 | 157,33 | 159,15 | 6,5 | 5 | 16H7 | 139 | 85 | 268,74 | 270,56 | 6,5 | 5 | 20H7 | 250 |
| 51 | 160,52 | 162,34 | 6,5 | 5 | 16H7 | 142 | 86 | 271,93 | 273,75 | 6,5 | 5 | 20H7 | 253 |
| 52 | 163,70 | 165,52 | 6,5 | 5 | 16H7 | 145 | 87 | 275,11 | 276,93 | 6,5 | 5 | 20H7 | 257 |
| 53 | 166,88 | 168,70 | 6,5 | 5 | 16H7 | 148 | 88 | 278,29 | 280,11 | 6,5 | 5 | 20H7 | 260 |
| 54 | 170,07 | 171,89 | 6,5 | 5 | 16H7 | 152 | 89 | 281,48 | 283,30 | 6,5 | 5 | 20H7 | 263 |
| 55 | 173,25 | 175,07 | 6,5 | 5 | 16H7 | 155 | 90 | 284,66 | 286,48 | 6,5 | 5 | 20H7 | 268 |
| 56 | 176,43 | 178,25 | 6,5 | 5 | 16H7 | 158 | 91 | 287,84 | 289,66 | 6,5 | 5 | 20H7 | 270 |
| 57 | 179,62 | 181,44 | 6,5 | 5 | 16H7 | 161 | 92 | 291,03 | 292,85 | 6,5 | 5 | 20H7 | 273 |
| 58 | 182,80 | 184,62 | 6,5 | 5 | 16H7 | 164 | 93 | 294,21 | 296,03 | 6,5 | 5 | 20H7 | 276 |
| 59 | 185,98 | 187,80 | 6,5 | 5 | 16H7 | 167 | 94 | 297,39 | 299,21 | 6,5 | 5 | 20H7 | 279 |
| 60 | 189,17 | 190,99 | 6,5 | 5 | 16H7 | 171 | 95 | 300,57 | 302,39 | 6,5 | 5 | 24H7 | 282 |
| 61 | 192,35 | 194,17 | 6,5 | 5 | 16H7 | 174 | 96 | 303,76 | 305,58 | 6,5 | 5 | 24H7 | 285 |
| 62 | 195,53 | 197,35 | 6,5 | 5 | 16H7 | 177 | 97 | 306,94 | 308,76 | 6,5 | 5 | 24H7 | 288 |
| 63 | 198,72 | 200,54 | 6,5 | 5 | 16H7 | 181 | 98 | 310,12 | 311,94 | 6,5 | 5 | 24H7 | 292 |
| 64 | 201,90 | 203,72 | 6,5 | 5 | 16H7 | 183 | 99 | 313,31 | 315,13 | 6,5 | 5 | 24H7 | 295 |
| 65 | 205,08 | 206,90 | 6,5 | 5 | 16H7 | 187 | 100 | 316,49 | 318,31 | 6,5 | 5 | 24H7 | 298 |
| 66 | 208,26 | 210,08 | 6,5 | 5 | 16H7 | 190 | 101 | 319,67 | 321,49 | 6,5 | 5 | 24H7 | 301 |
| 67 | 211,45 | 213,27 | 6,5 | 5 | 16H7 | 193 | 102 | 322,86 | 324,68 | 6,5 | 5 | 24H7 | 304 |
| 68 | 214,63 | 216,45 | 6,5 | 5 | 16H7 | 196 | 103 | 326,04 | 327,86 | 6,5 | 5 | 24H7 | 308 |
| 69 | 217,81 | 219,63 | 6,5 | 5 | 16H7 | 201 | 104 | 329,22 | 331,04 | 6,5 | 5 | 24H7 | 311 |
| 70 | 221,00 | 222,82 | 6,5 | 5 | 16H7 | 203 | 105 | 332,41 | 334,23 | 6,5 | 5 | 24H7 | 314 |
| 71 | 224,18 | 226,00 | 6,5 | 5 | 16H7 | 206 | 106 | 335,59 | 337,41 | 6,5 | 5 | 24H7 | 317 |
| 72 | 227,36 | 229,18 | 6,5 | 5 | 20H7 | 209 | 107 | 338,77 | 340,59 | 6,5 | 5 | 24H7 | 321 |
| 73 | 230,55 | 232,37 | 6,5 | 5 | 20H7 | 212 | 108 | 341,95 | 343,77 | 6,5 | 5 | 24H7 | 324 |
| 74 | 233,73 | 235,55 | 6,5 | 5 | 20H7 | 215 | 109 | 345,14 | 346,96 | 6,5 | 5 | 24H7 | 327 |
| 75 | 236,91 | 238,73 | 6,5 | 5 | 20H7 | 218 | 110 | 348,32 | 350,14 | 6,5 | 5 | 24H7 | 330 |
| 76 | 240,10 | 241,92 | 6,5 | 5 | 20H7 | 222 | 111 | 351,50 | 353,32 | 6,5 | 5 | 24H7 | 333 |
| 77 | 243,28 | 245,10 | 6,5 | 5 | 20H7 | 225 | 112 | 354,69 | 356,51 | 6,5 | 5 | 24H7 | 336 |
| 78 | 246,46 | 248,28 | 6,5 | 5 | 20H7 | 228 | 113 | 357,87 | 359,69 | 6,5 | 5 | 24H7 | 339 |
| 79 | 249,64 | 251,46 | 6,5 | 5 | 20H7 | 232 | 114 | 361,05 | 362,87 | 6,5 | 5 | 24H7 | 343 |

Self-tracking pulleys

ATK 20 K13



Order example:

Pulley Al 55 ATK 20 K13 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | |
|--------------|--------|----|-----|
| Belt width | b [mm] | 75 | 100 |
| Pulley width | B [mm] | 80 | 105 |

In-between widths and larger widths are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

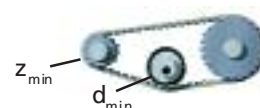
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 120$ mm running on the back of the belt $\varnothing 180$ mm

Drive type

without contraflexure



with contraflexure



| z | Bore | | | | | |
|------|------------|------------|------|-----|-------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | d_v | d_{max} [mm] |
| *20 | 124,50 | 127,32 | 13,5 | 7,5 | 16H7 | 94 |
| 21 | 130,87 | 133,69 | 13,5 | 7,5 | 16H7 | 100 |
| 22 | 137,24 | 140,06 | 13,5 | 7,5 | 16H7 | 107 |
| 23 | 143,60 | 146,42 | 13,5 | 7,5 | 16H7 | 113 |
| 24 | 149,97 | 152,79 | 13,5 | 7,5 | 16H7 | 119 |
| **25 | 156,33 | 159,15 | 13,5 | 7,5 | 16H7 | 126 |
| 26 | 162,70 | 165,52 | 13,5 | 7,5 | 16H7 | 132 |
| 27 | 169,07 | 171,89 | 13,5 | 7,5 | 16H7 | 139 |
| 28 | 175,43 | 178,25 | 13,5 | 7,5 | 16H7 | 145 |
| 29 | 181,80 | 184,62 | 13,5 | 7,5 | 16H7 | 151 |

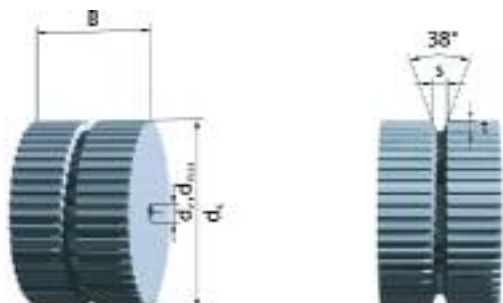
| z | Bore | | | | | |
|----|------------|------------|------|-----|-------|----------------|
| | d_k [mm] | d_0 [mm] | s | t | d_v | d_{max} [mm] |
| 30 | 188,17 | 190,99 | 13,5 | 7,5 | 16H7 | 158 |
| 31 | 194,53 | 197,35 | 13,5 | 7,5 | 16H7 | 164 |
| 32 | 200,90 | 203,72 | 13,5 | 7,5 | 16H7 | 170 |
| 33 | 207,26 | 210,08 | 13,5 | 7,5 | 16H7 | 177 |
| 34 | 213,63 | 216,45 | 13,5 | 7,5 | 16H7 | 183 |
| 35 | 220,00 | 222,82 | 13,5 | 7,5 | 16H7 | 190 |
| 36 | 226,36 | 229,18 | 13,5 | 7,5 | 18H7 | 196 |
| 37 | 232,73 | 235,55 | 13,5 | 7,5 | 18H7 | 202 |
| 38 | 239,10 | 241,92 | 13,5 | 7,5 | 18H7 | 209 |
| 39 | 245,46 | 248,28 | 13,5 | 7,5 | 18H7 | 215 |
| 40 | 251,83 | 254,65 | 13,5 | 7,5 | 18H7 | 221 |
| 41 | 258,19 | 261,01 | 13,5 | 7,5 | 18H7 | 228 |
| 42 | 264,56 | 267,38 | 13,5 | 7,5 | 18H7 | 234 |
| 43 | 270,93 | 273,75 | 13,5 | 7,5 | 18H7 | 240 |
| 44 | 277,29 | 280,11 | 13,5 | 7,5 | 18H7 | 247 |

ATK 20 K13

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|-----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 283,66 | 286,48 | 13,5 | 7,5 | 18H7 | 253 | 80 | 506,48 | 509,30 | 13,5 | 7,5 | 30H7 | 476 |
| 46 | 290,03 | 292,85 | 13,5 | 7,5 | 18H7 | 260 | 81 | 512,84 | 515,66 | 13,5 | 7,5 | 30H7 | 482 |
| 47 | 296,39 | 299,21 | 13,5 | 7,5 | 18H7 | 266 | 82 | 519,21 | 522,03 | 13,5 | 7,5 | 30H7 | 489 |
| 48 | 302,76 | 305,58 | 13,5 | 7,5 | 18H7 | 272 | 83 | 525,57 | 528,39 | 13,5 | 7,5 | 30H7 | 495 |
| 49 | 309,12 | 311,94 | 13,5 | 7,5 | 20H7 | 279 | 84 | 531,94 | 534,76 | 13,5 | 7,5 | 30H7 | 500 |
| 50 | 315,49 | 318,31 | 13,5 | 7,5 | 20H7 | 285 | 85 | 538,31 | 541,13 | 13,5 | 7,5 | 30H7 | 500 |
| 51 | 321,86 | 324,68 | 13,5 | 7,5 | 20H7 | 292 | 86 | 544,67 | 547,49 | 13,5 | 7,5 | 30H7 | 504 |
| 52 | 328,22 | 331,04 | 13,5 | 7,5 | 20H7 | 298 | 87 | 551,04 | 553,86 | 13,5 | 7,5 | 30H7 | 511 |
| 53 | 334,59 | 337,41 | 13,5 | 7,5 | 20H7 | 304 | 88 | 557,41 | 560,23 | 13,5 | 7,5 | 30H7 | 517 |
| 54 | 340,95 | 343,77 | 13,5 | 7,5 | 20H7 | 310 | 89 | 563,77 | 566,59 | 13,5 | 7,5 | 30H7 | 523 |
| 55 | 347,32 | 350,14 | 13,5 | 7,5 | 20H7 | 317 | 90 | 570,14 | 572,96 | 13,5 | 7,5 | 30H7 | 530 |
| 56 | 353,69 | 356,51 | 13,5 | 7,5 | 20H7 | 323 | 91 | 576,50 | 579,32 | 13,5 | 7,5 | 30H7 | 536 |
| 57 | 360,05 | 362,87 | 13,5 | 7,5 | 20H7 | 330 | 92 | 582,87 | 585,69 | 13,5 | 7,5 | 30H7 | 542 |
| 58 | 366,42 | 396,24 | 13,5 | 7,5 | 20H7 | 336 | 93 | 589,24 | 592,06 | 13,5 | 7,5 | 30H7 | 549 |
| 59 | 372,79 | 375,61 | 13,5 | 7,5 | 20H7 | 342 | 94 | 595,60 | 598,42 | 13,5 | 7,5 | 30H7 | 555 |
| 60 | 379,15 | 381,97 | 13,5 | 7,5 | 20H7 | 349 | 95 | 601,97 | 604,79 | 13,5 | 7,5 | 40H7 | 562 |
| 61 | 385,52 | 388,34 | 13,5 | 7,5 | 20H7 | 355 | 96 | 608,33 | 611,15 | 13,5 | 7,5 | 40H7 | 568 |
| 62 | 391,88 | 394,70 | 13,5 | 7,5 | 20H7 | 362 | 97 | 614,70 | 617,52 | 13,5 | 7,5 | 40H7 | 574 |
| 63 | 398,25 | 401,07 | 13,5 | 7,5 | 20H7 | 368 | 98 | 621,07 | 623,89 | 13,5 | 7,5 | 40H7 | 581 |
| 64 | 404,62 | 407,44 | 13,5 | 7,5 | 20H7 | 374 | 99 | 627,43 | 630,25 | 13,5 | 7,5 | 40H7 | 587 |
| 65 | 410,98 | 413,80 | 13,5 | 7,5 | 20H7 | 380 | 100 | 633,80 | 636,62 | 13,5 | 7,5 | 40H7 | 593 |
| 66 | 417,35 | 420,17 | 13,5 | 7,5 | 20H7 | 387 | 101 | 640,17 | 642,99 | 13,5 | 7,5 | 40H7 | 600 |
| 67 | 423,72 | 426,54 | 13,5 | 7,5 | 20H7 | 393 | 102 | 646,53 | 649,35 | 13,5 | 7,5 | 40H7 | 606 |
| 68 | 430,08 | 432,90 | 13,5 | 7,5 | 20H7 | 400 | 103 | 652,90 | 655,72 | 13,5 | 7,5 | 40H7 | 612 |
| 69 | 436,45 | 439,27 | 13,5 | 7,5 | 20H7 | 406 | 104 | 659,26 | 662,08 | 13,5 | 7,5 | 40H7 | 619 |
| 70 | 442,81 | 445,63 | 13,5 | 7,5 | 20H7 | 412 | 105 | 665,63 | 668,45 | 13,5 | 7,5 | 40H7 | 625 |
| 71 | 449,18 | 452,00 | 13,5 | 7,5 | 20H7 | 419 | 106 | 672,00 | 674,82 | 13,5 | 7,5 | 40H7 | 632 |
| 72 | 455,55 | 458,37 | 13,5 | 7,5 | 20H7 | 425 | 107 | 678,36 | 681,18 | 13,5 | 7,5 | 40H7 | 638 |
| 73 | 461,91 | 464,73 | 13,5 | 7,5 | 30H7 | 431 | 108 | 684,73 | 687,55 | 13,5 | 7,5 | 40H7 | 644 |
| 74 | 468,28 | 471,10 | 13,5 | 7,5 | 30H7 | 438 | 109 | 691,10 | 693,92 | 13,5 | 7,5 | 40H7 | 651 |
| 75 | 474,64 | 477,46 | 13,5 | 7,5 | 30H7 | 444 | 110 | 697,46 | 700,28 | 13,5 | 7,5 | 40H7 | 659 |
| 76 | 481,01 | 483,83 | 13,5 | 7,5 | 30H7 | 451 | 111 | 703,83 | 706,65 | 13,5 | 7,5 | 40H7 | 663 |
| 77 | 487,38 | 490,20 | 13,5 | 7,5 | 30H7 | 457 | 112 | 710,19 | 713,01 | 13,5 | 7,5 | 40H7 | 670 |
| 78 | 493,74 | 496,56 | 13,5 | 7,5 | 30H7 | 463 | 113 | 716,56 | 719,38 | 13,5 | 7,5 | 40H7 | 676 |
| 79 | 500,11 | 502,93 | 13,5 | 7,5 | 30H7 | 470 | 114 | 722,93 | 725,75 | 13,5 | 7,5 | 40H7 | 682 |

Self-tracking pulleys

TK 5 K6



Order example:

Pulley Al 55 TK 5K6 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | |
|--------------|--------|----|----|
| Belt width | b [mm] | 32 | 50 |
| Pulley width | B [mm] | 37 | 55 |

The stock pulleys with standard dimensioning are marked in **blue**

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

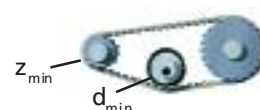
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø30 mm
 running on the back of the belt Ø60 mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|------|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| | | | | | 6H7 | 11 |
| | | | | | 6H7 | 12 |
| | | | | | 8H7 | 14 |
| | | | | | 8H7 | 15 |
| | | | | | 8H7 | 17 |
| *20 | 31,00 | 31,83 | 6,5 | 5 | 6H7 | 11 |
| 21 | 32,60 | 33,42 | 6,5 | 5 | 6H7 | 12 |
| 22 | 34,15 | 35,01 | 6,5 | 5 | 8H7 | 14 |
| 23 | 35,75 | 36,61 | 6,5 | 5 | 8H7 | 15 |
| 24 | 37,35 | 38,20 | 6,5 | 5 | 8H7 | 17 |
| **25 | 38,95 | 39,79 | 6,5 | 5 | 8H7 | 19 |
| 26 | 40,55 | 41,38 | 6,5 | 5 | 8H7 | 20 |
| 27 | 42,15 | 42,97 | 6,5 | 5 | 8H7 | 22 |
| 28 | 43,75 | 44,56 | 6,5 | 5 | 8H7 | 23 |
| 29 | 45,30 | 46,15 | 6,5 | 5 | 8H7 | 25 |

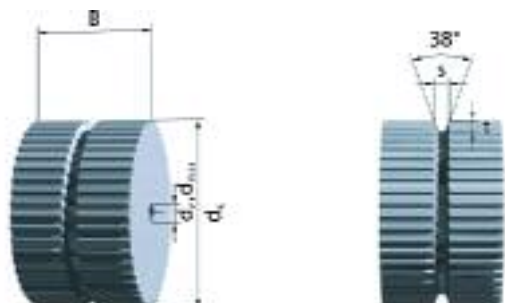
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| | | | | | 8H7 | 27 |
| | | | | | 8H7 | 28 |
| | | | | | 8H7 | 30 |
| | | | | | 8H7 | 31 |
| | | | | | 8H7 | 33 |
| 30 | 46,90 | 47,75 | 6,5 | 5 | 8H7 | 27 |
| 31 | 48,50 | 49,34 | 6,5 | 5 | 8H7 | 28 |
| 32 | 50,10 | 50,93 | 6,5 | 5 | 8H7 | 30 |
| 33 | 51,70 | 52,52 | 6,5 | 5 | 8H7 | 31 |
| 34 | 53,30 | 54,11 | 6,5 | 5 | 8H7 | 33 |
| 35 | 54,85 | 55,70 | 6,5 | 5 | 8H7 | 34 |
| 36 | 56,45 | 57,30 | 6,5 | 5 | 8H7 | 36 |
| 37 | 58,05 | 58,89 | 6,5 | 5 | 8H7 | 38 |
| 38 | 59,65 | 60,48 | 6,5 | 5 | 8H7 | 39 |
| 39 | 61,25 | 62,07 | 6,5 | 5 | 8H7 | 41 |
| 40 | 62,85 | 63,66 | 6,5 | 5 | 12H7 | 42 |
| 41 | 64,40 | 65,25 | 6,5 | 5 | 12H7 | 44 |
| 42 | 66,00 | 66,85 | 6,5 | 5 | 12H7 | 46 |
| 43 | 67,60 | 68,44 | 6,5 | 5 | 12H7 | 47 |
| 44 | 69,20 | 70,03 | 6,5 | 5 | 12H7 | 49 |

TK 5 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|-----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 70,80 | 71,62 | 6,5 | 5 | 12H7 | 50 | 80 | 126,50 | 127,32 | 6,5 | 5 | 12H7 | 106 |
| 46 | 72,40 | 73,21 | 6,5 | 5 | 12H7 | 52 | 81 | 128,10 | 128,92 | 6,5 | 5 | 12H7 | 108 |
| 47 | 73,95 | 47,80 | 6,5 | 5 | 12H7 | 54 | 82 | 129,70 | 130,51 | 6,5 | 5 | 12H7 | 109 |
| 48 | 75,55 | 76,39 | 6,5 | 5 | 12H7 | 55 | 83 | 131,30 | 132,10 | 6,5 | 5 | 12H7 | 111 |
| 49 | 77,15 | 77,99 | 6,5 | 5 | 12H7 | 57 | 84 | 132,90 | 133,69 | 6,5 | 5 | 12H7 | 112 |
| 50 | 78,75 | 79,58 | 6,5 | 5 | 12H7 | 58 | 85 | 134,45 | 135,28 | 6,5 | 5 | 12H7 | 114 |
| 51 | 80,35 | 81,17 | 6,5 | 5 | 12H7 | 60 | 86 | 136,05 | 136,87 | 6,5 | 5 | 12H7 | 116 |
| 52 | 81,95 | 82,76 | 6,5 | 5 | 12H7 | 62 | 87 | 137,65 | 138,46 | 6,5 | 5 | 12H7 | 117 |
| 53 | 83,55 | 84,35 | 6,5 | 5 | 12H7 | 63 | 88 | 139,25 | 140,06 | 6,5 | 5 | 12H7 | 119 |
| 54 | 85,10 | 85,94 | 6,5 | 5 | 12H7 | 65 | 89 | 140,85 | 141,65 | 6,5 | 5 | 12H7 | 120 |
| 55 | 86,70 | 87,54 | 6,5 | 5 | 12H7 | 66 | 90 | 142,45 | 143,24 | 6,5 | 5 | 12H7 | 122 |
| 56 | 88,30 | 89,13 | 6,5 | 5 | 12H7 | 68 | 91 | 144,00 | 144,83 | 6,5 | 5 | 12H7 | 124 |
| 57 | 89,90 | 90,72 | 6,5 | 5 | 12H7 | 69 | 92 | 145,60 | 146,42 | 6,5 | 5 | 12H7 | 125 |
| 58 | 91,50 | 92,31 | 6,5 | 5 | 12H7 | 71 | 93 | 147,20 | 148,01 | 6,5 | 5 | 12H7 | 127 |
| 59 | 93,10 | 93,90 | 6,5 | 5 | 12H7 | 73 | 94 | 148,80 | 149,61 | 6,5 | 5 | 12H7 | 128 |
| 60 | 94,65 | 95,49 | 6,5 | 5 | 12H7 | 74 | 95 | 150,40 | 151,20 | 6,5 | 5 | 12H7 | 130 |
| 61 | 96,25 | 97,08 | 6,5 | 5 | 12H7 | 76 | 96 | 152,00 | 152,79 | 6,5 | 5 | 12H7 | 132 |
| 62 | 97,85 | 98,68 | 6,5 | 5 | 12H7 | 77 | 97 | 153,55 | 154,38 | 6,5 | 5 | 12H7 | 133 |
| 63 | 99,45 | 100,27 | 6,5 | 5 | 12H7 | 79 | 98 | 155,15 | 155,97 | 6,5 | 5 | 12H7 | 135 |
| 64 | 101,05 | 101,86 | 6,5 | 5 | 12H7 | 81 | 99 | 156,75 | 157,56 | 6,5 | 5 | 12H7 | 136 |
| 65 | 102,65 | 103,45 | 6,5 | 5 | 12H7 | 82 | 100 | 158,35 | 159,15 | 6,5 | 5 | 12H7 | 138 |
| 66 | 104,20 | 105,04 | 6,5 | 5 | 12H7 | 84 | 101 | 159,95 | 160,75 | 6,5 | 5 | 12H7 | 140 |
| 67 | 105,80 | 106,63 | 6,5 | 5 | 12H7 | 85 | 102 | 161,55 | 162,34 | 6,5 | 5 | 12H7 | 141 |
| 68 | 107,40 | 108,23 | 6,5 | 5 | 12H7 | 87 | 103 | 163,15 | 163,93 | 6,5 | 5 | 12H7 | 143 |
| 69 | 109,00 | 109,82 | 6,5 | 5 | 12H7 | 89 | 104 | 164,70 | 165,52 | 6,5 | 5 | 12H7 | 144 |
| 70 | 110,60 | 111,41 | 6,5 | 5 | 12H7 | 90 | 105 | 166,30 | 167,11 | 6,5 | 5 | 12H7 | 146 |
| 71 | 112,20 | 113,00 | 6,5 | 5 | 12H7 | 92 | 106 | 167,90 | 168,70 | 6,5 | 5 | 12H7 | 147 |
| 72 | 113,75 | 114,59 | 6,5 | 5 | 12H7 | 93 | 107 | 169,50 | 170,30 | 6,5 | 5 | 12H7 | 149 |
| 73 | 115,35 | 116,18 | 6,5 | 5 | 12H7 | 95 | 108 | 171,10 | 171,89 | 6,5 | 5 | 12H7 | 151 |
| 74 | 116,95 | 117,77 | 6,5 | 5 | 12H7 | 97 | 109 | 172,70 | 173,48 | 6,5 | 5 | 12H7 | 152 |
| 75 | 118,55 | 119,37 | 6,5 | 5 | 12H7 | 98 | 110 | 174,25 | 175,07 | 6,5 | 5 | 12H7 | 154 |
| 76 | 120,15 | 120,96 | 6,5 | 5 | 12H7 | 100 | 111 | 175,85 | 176,66 | 6,5 | 5 | 12H7 | 155 |
| 77 | 121,75 | 122,55 | 6,5 | 5 | 12H7 | 101 | 112 | 177,45 | 178,25 | 6,5 | 5 | 12H7 | 157 |
| 78 | 123,35 | 124,14 | 6,5 | 5 | 12H7 | 103 | 113 | 179,05 | 179,85 | 6,5 | 5 | 12H7 | 159 |
| 79 | 124,90 | 125,73 | 6,5 | 5 | 12H7 | 105 | 114 | 180,65 | 181,44 | 6,5 | 5 | 12H7 | 160 |

Self-tracking pulleys

TK 10 K13



Order example:

Pulley Al 55 TK10K13 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | | | |
|--------------|--------|----|----|----|-----|-----|
| Belt width | b [mm] | 32 | 50 | 75 | 100 | 150 |
| Pulley width | B [mm] | 37 | 55 | 80 | 105 | 155 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

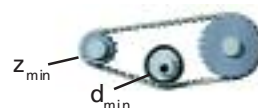
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø60 mm
 running on the back of the belt Ø80 mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 20 | 61,80 | 63,66 | 13,5 | 7,5 | 12H7 | 38 |
| 21 | 65,00 | 66,85 | 13,5 | 7,5 | 12H7 | 41 |
| 22 | 68,20 | 70,03 | 13,5 | 7,5 | 12H7 | 44 |
| 23 | 71,35 | 73,21 | 13,5 | 7,5 | 12H7 | 47 |
| 24 | 74,55 | 76,39 | 13,5 | 7,5 | 12H7 | 50 |
| 25 | 77,75 | 79,58 | 13,5 | 7,5 | 12H7 | 53 |
| 26 | 80,90 | 82,76 | 13,5 | 7,5 | 12H7 | 57 |
| 27 | 84,10 | 85,94 | 13,5 | 7,5 | 12H7 | 60 |
| 28 | 87,25 | 89,13 | 13,5 | 7,5 | 12H7 | 63 |
| 29 | 90,45 | 92,31 | 13,5 | 7,5 | 12H7 | 66 |

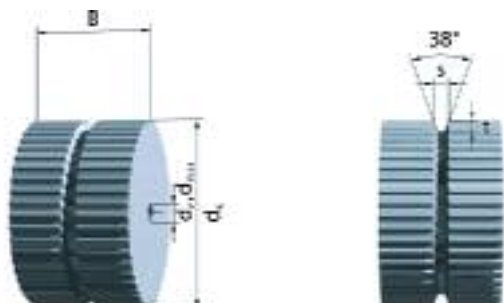
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 30 | 93,65 | 95,49 | 13,5 | 7,5 | 12H7 | 70 |
| 31 | 96,80 | 98,68 | 13,5 | 7,5 | 12H7 | 72 |
| 32 | 100,00 | 101,86 | 13,5 | 7,5 | 12H7 | 76 |
| 33 | 103,20 | 105,04 | 13,5 | 7,5 | 12H7 | 79 |
| 34 | 106,35 | 108,23 | 13,5 | 7,5 | 12H7 | 82 |
| 35 | 109,55 | 111,41 | 13,5 | 7,5 | 12H7 | 85 |
| 36 | 112,75 | 114,59 | 13,5 | 7,5 | 16H7 | 88 |
| 37 | 115,90 | 117,77 | 13,5 | 7,5 | 16H7 | 92 |
| 38 | 119,10 | 120,96 | 13,5 | 7,5 | 16H7 | 95 |
| 39 | 122,30 | 124,14 | 13,5 | 7,5 | 16H7 | 98 |
| 40 | 125,45 | 127,32 | 13,5 | 7,5 | 16H7 | 101 |
| 41 | 128,65 | 130,51 | 13,5 | 7,5 | 16H7 | 104 |
| 42 | 131,85 | 133,69 | 13,5 | 7,5 | 16H7 | 107 |
| 43 | 135,00 | 136,87 | 13,5 | 7,5 | 16H7 | 111 |
| 44 | 138,20 | 140,06 | 13,5 | 7,5 | 16H7 | 114 |

TK 10 K13

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|-----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 141,40 | 143,24 | 13,5 | 7,5 | 16H7 | 117 | 80 | 252,80 | 254,65 | 13,5 | 7,5 | 20H7 | 228 |
| 46 | 144,50 | 146,42 | 13,5 | 7,5 | 16H7 | 120 | 81 | 255,95 | 257,83 | 13,5 | 7,5 | 20H7 | 231 |
| 47 | 147,75 | 149,61 | 13,5 | 7,5 | 16H7 | 123 | 82 | 259,15 | 261,01 | 13,5 | 7,5 | 20H7 | 235 |
| 48 | 150,95 | 152,79 | 13,5 | 7,5 | 16H7 | 127 | 83 | 262,35 | 264,20 | 13,5 | 7,5 | 20H7 | 238 |
| 49 | 154,10 | 155,97 | 13,5 | 7,5 | 16H7 | 130 | 84 | 265,50 | 267,38 | 13,5 | 7,5 | 20H7 | 241 |
| 50 | 157,30 | 159,15 | 13,5 | 7,5 | 16H7 | 133 | 85 | 268,70 | 270,56 | 13,5 | 7,5 | 20H7 | 244 |
| 51 | 160,50 | 162,34 | 13,5 | 7,5 | 16H7 | 136 | 86 | 271,90 | 273,75 | 13,5 | 7,5 | 20H7 | 247 |
| 52 | 163,65 | 165,52 | 13,5 | 7,5 | 16H7 | 139 | 87 | 275,05 | 276,93 | 13,5 | 7,5 | 20H7 | 251 |
| 53 | 166,85 | 168,70 | 13,5 | 7,5 | 16H7 | 142 | 88 | 278,25 | 280,11 | 13,5 | 7,5 | 20H7 | 254 |
| 54 | 170,05 | 171,89 | 13,5 | 7,5 | 16H7 | 146 | 89 | 281,45 | 283,30 | 13,5 | 7,5 | 20H7 | 257 |
| 55 | 173,20 | 175,07 | 13,5 | 7,5 | 16H7 | 149 | 90 | 284,60 | 286,48 | 13,5 | 7,5 | 20H7 | 260 |
| 56 | 176,40 | 178,25 | 13,5 | 7,5 | 16H7 | 152 | 91 | 287,80 | 289,66 | 13,5 | 7,5 | 20H7 | 263 |
| 57 | 179,60 | 181,44 | 13,5 | 7,5 | 16H7 | 155 | 92 | 291,00 | 292,85 | 13,5 | 7,5 | 20H7 | 267 |
| 58 | 182,75 | 184,62 | 13,5 | 7,5 | 16H7 | 158 | 93 | 294,15 | 296,03 | 13,5 | 7,5 | 20H7 | 270 |
| 59 | 185,95 | 187,80 | 13,5 | 7,5 | 16H7 | 161 | 94 | 297,35 | 299,21 | 13,5 | 7,5 | 20H7 | 273 |
| 60 | 189,15 | 190,99 | 13,5 | 7,5 | 16H7 | 165 | 95 | 300,55 | 302,39 | 13,5 | 7,5 | 24H7 | 276 |
| 61 | 192,30 | 194,17 | 13,5 | 7,5 | 16H7 | 168 | 96 | 303,70 | 305,58 | 13,5 | 7,5 | 24H7 | 279 |
| 62 | 195,50 | 197,35 | 13,5 | 7,5 | 16H7 | 171 | 97 | 306,90 | 308,76 | 13,5 | 7,5 | 24H7 | 282 |
| 63 | 198,70 | 200,54 | 13,5 | 7,5 | 16H7 | 174 | 98 | 310,10 | 311,94 | 13,5 | 7,5 | 24H7 | 286 |
| 64 | 201,85 | 203,72 | 13,5 | 7,5 | 16H7 | 177 | 99 | 313,25 | 315,13 | 13,5 | 7,5 | 24H7 | 289 |
| 65 | 205,05 | 206,90 | 13,5 | 7,5 | 16H7 | 181 | 100 | 316,45 | 318,31 | 13,5 | 7,5 | 24H7 | 292 |
| 66 | 208,25 | 210,08 | 13,5 | 7,5 | 16H7 | 184 | 101 | 319,65 | 321,49 | 13,5 | 7,5 | 24H7 | 295 |
| 67 | 211,40 | 213,27 | 13,5 | 7,5 | 16H7 | 187 | 102 | 322,80 | 324,68 | 13,5 | 7,5 | 24H7 | 298 |
| 68 | 214,60 | 216,45 | 13,5 | 7,5 | 16H7 | 190 | 103 | 326,00 | 327,86 | 13,5 | 7,5 | 24H7 | 302 |
| 69 | 217,80 | 219,63 | 13,5 | 7,5 | 16H7 | 193 | 104 | 329,20 | 331,04 | 13,5 | 7,5 | 24H7 | 305 |
| 70 | 220,95 | 222,82 | 13,5 | 7,5 | 16H7 | 196 | 105 | 332,35 | 334,23 | 13,5 | 7,5 | 24H7 | 308 |
| 71 | 224,15 | 226,00 | 13,5 | 7,5 | 16H7 | 200 | 106 | 335,55 | 337,41 | 13,5 | 7,5 | 24H7 | 311 |
| 72 | 227,35 | 229,18 | 13,5 | 7,5 | 16H7 | 203 | 107 | 338,75 | 340,59 | 13,5 | 7,5 | 24H7 | 314 |
| 73 | 230,50 | 232,37 | 13,5 | 7,5 | 20H7 | 206 | 108 | 341,90 | 343,77 | 13,5 | 7,5 | 24H7 | 317 |
| 74 | 233,70 | 235,55 | 13,5 | 7,5 | 20H7 | 209 | 109 | 345,10 | 346,96 | 13,5 | 7,5 | 24H7 | 321 |
| 75 | 236,90 | 238,73 | 13,5 | 7,5 | 20H7 | 212 | 110 | 348,30 | 350,14 | 13,5 | 7,5 | 24H7 | 324 |
| 76 | 240,05 | 241,92 | 13,5 | 7,5 | 20H7 | 216 | 111 | 351,45 | 353,32 | 13,5 | 7,5 | 24H7 | 327 |
| 77 | 243,25 | 245,10 | 13,5 | 7,5 | 20H7 | 219 | 112 | 354,65 | 356,51 | 13,5 | 7,5 | 24H7 | 330 |
| 78 | 246,40 | 248,28 | 13,5 | 7,5 | 20H7 | 222 | 113 | 357,85 | 359,69 | 13,5 | 7,5 | 24H7 | 333 |
| 79 | 249,60 | 251,46 | 13,5 | 7,5 | 20H7 | 225 | 114 | 361,00 | 362,87 | 13,5 | 7,5 | 24H7 | 337 |

Self-tracking pulleys

TK 10 K6



Order example:

Pulley Al 55 TK 10K6 / 32 d=15H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | |
|--------------|--------|----|----|
| Belt width | b [mm] | 25 | 50 |
| Pulley width | B [mm] | 30 | 55 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

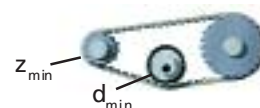
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø60 mm
 running on the back of the belt Ø80 mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|------|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| *20 | 61,80 | 63,66 | 6,5 | 5 | 12H7 | 44 |
| 21 | 65,00 | 66,85 | 6,5 | 5 | 12H7 | 47 |
| 22 | 68,20 | 70,03 | 6,5 | 5 | 12H7 | 51 |
| 23 | 71,35 | 73,21 | 6,5 | 5 | 12H7 | 53 |
| 24 | 74,55 | 76,39 | 6,5 | 5 | 12H7 | 56 |
| **25 | 77,75 | 79,58 | 6,5 | 5 | 12H7 | 59 |
| 26 | 80,90 | 82,76 | 6,5 | 5 | 12H7 | 62 |
| 27 | 84,10 | 85,94 | 6,5 | 5 | 12H7 | 66 |
| 28 | 87,25 | 89,13 | 6,5 | 5 | 12H7 | 69 |
| 29 | 90,45 | 92,31 | 6,5 | 5 | 12H7 | 72 |

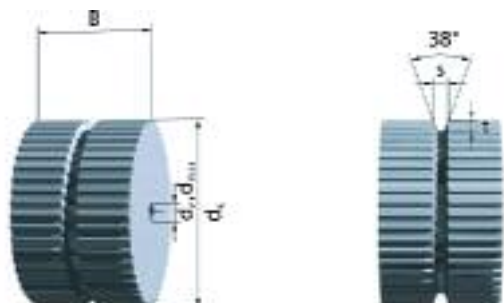
| z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] |
| 30 | 93,65 | 95,49 | 6,5 | 5 | 12H7 | 75 |
| 31 | 96,80 | 98,68 | 6,5 | 5 | 12H7 | 78 |
| 32 | 100,00 | 101,86 | 6,5 | 5 | 12H7 | 82 |
| 33 | 103,20 | 105,04 | 6,5 | 5 | 12H7 | 85 |
| 34 | 106,35 | 108,23 | 6,5 | 5 | 12H7 | 88 |
| 35 | 109,55 | 111,41 | 6,5 | 5 | 12H7 | 91 |
| 36 | 112,75 | 114,59 | 6,5 | 5 | 16H7 | 94 |
| 37 | 115,90 | 117,77 | 6,5 | 5 | 16H7 | 98 |
| 38 | 119,10 | 120,96 | 6,5 | 5 | 16H7 | 101 |
| 39 | 122,30 | 124,14 | 6,5 | 5 | 16H7 | 104 |
| 40 | 125,45 | 127,32 | 6,5 | 5 | 16H7 | 109 |
| 41 | 128,65 | 130,51 | 6,5 | 5 | 16H7 | 112 |
| 42 | 131,85 | 133,69 | 6,5 | 5 | 16H7 | 115 |
| 43 | 135,00 | 136,87 | 6,5 | 5 | 16H7 | 118 |
| 44 | 138,20 | 140,06 | 6,5 | 5 | 16H7 | 122 |

TK 10 K6

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|-----|---|----------------|--------------------------|-----|------------------------|------------------------|-----|---|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 141,40 | 143,24 | 6,5 | 5 | 16H7 | 123 | 80 | 252,80 | 254,65 | 6,5 | 5 | 20H7 | 234 |
| 46 | 144,50 | 146,42 | 6,5 | 5 | 16H7 | 126 | 81 | 255,95 | 257,83 | 6,5 | 5 | 20H7 | 238 |
| 47 | 147,75 | 149,61 | 6,5 | 5 | 16H7 | 129 | 82 | 259,15 | 261,01 | 6,5 | 5 | 20H7 | 241 |
| 48 | 150,95 | 152,79 | 6,5 | 5 | 16H7 | 132 | 83 | 262,35 | 264,20 | 6,5 | 5 | 20H7 | 244 |
| 49 | 154,10 | 155,97 | 6,5 | 5 | 16H7 | 136 | 84 | 265,50 | 267,38 | 6,5 | 5 | 20H7 | 247 |
| 50 | 157,30 | 159,15 | 6,5 | 5 | 16H7 | 139 | 85 | 268,70 | 270,56 | 6,5 | 5 | 20H7 | 250 |
| 51 | 160,50 | 162,34 | 6,5 | 5 | 16H7 | 142 | 86 | 271,90 | 273,75 | 6,5 | 5 | 20H7 | 253 |
| 52 | 163,65 | 165,52 | 6,5 | 5 | 16H7 | 145 | 87 | 275,05 | 276,93 | 6,5 | 5 | 20H7 | 257 |
| 53 | 166,85 | 168,70 | 6,5 | 5 | 16H7 | 148 | 88 | 278,25 | 280,11 | 6,5 | 5 | 20H7 | 260 |
| 54 | 170,05 | 171,89 | 6,5 | 5 | 16H7 | 152 | 89 | 281,45 | 283,30 | 6,5 | 5 | 20H7 | 263 |
| 55 | 173,20 | 175,07 | 6,5 | 5 | 16H7 | 155 | 90 | 284,60 | 286,48 | 6,5 | 5 | 20H7 | 268 |
| 56 | 176,40 | 178,25 | 6,5 | 5 | 16H7 | 158 | 91 | 287,80 | 289,66 | 6,5 | 5 | 20H7 | 270 |
| 57 | 179,60 | 181,44 | 6,5 | 5 | 16H7 | 161 | 92 | 291,00 | 292,85 | 6,5 | 5 | 20H7 | 273 |
| 58 | 182,75 | 184,62 | 6,5 | 5 | 16H7 | 164 | 93 | 294,15 | 296,03 | 6,5 | 5 | 20H7 | 276 |
| 59 | 185,95 | 187,80 | 6,5 | 5 | 16H7 | 167 | 94 | 297,35 | 299,21 | 6,5 | 5 | 20H7 | 279 |
| 60 | 189,15 | 190,99 | 6,5 | 5 | 16H7 | 171 | 95 | 300,55 | 302,39 | 6,5 | 5 | 24H7 | 282 |
| 61 | 192,30 | 194,17 | 6,5 | 5 | 16H7 | 174 | 96 | 303,70 | 305,58 | 6,5 | 5 | 24H7 | 285 |
| 62 | 195,50 | 197,35 | 6,5 | 5 | 16H7 | 177 | 97 | 306,90 | 308,76 | 6,5 | 5 | 24H7 | 288 |
| 63 | 198,70 | 200,54 | 6,5 | 5 | 16H7 | 181 | 98 | 310,10 | 311,94 | 6,5 | 5 | 24H7 | 292 |
| 64 | 201,85 | 203,72 | 6,5 | 5 | 16H7 | 183 | 99 | 313,25 | 315,13 | 6,5 | 5 | 24H7 | 295 |
| 65 | 205,05 | 206,90 | 6,5 | 5 | 16H7 | 187 | 100 | 316,45 | 318,31 | 6,5 | 5 | 24H7 | 298 |
| 66 | 208,25 | 210,08 | 6,5 | 5 | 16H7 | 190 | 101 | 319,65 | 321,49 | 6,5 | 5 | 24H7 | 301 |
| 67 | 211,40 | 213,27 | 6,5 | 5 | 16H7 | 193 | 102 | 322,80 | 324,68 | 6,5 | 5 | 24H7 | 304 |
| 68 | 214,60 | 216,45 | 6,5 | 5 | 16H7 | 196 | 103 | 326,00 | 327,86 | 6,5 | 5 | 24H7 | 308 |
| 69 | 217,80 | 219,63 | 6,5 | 5 | 16H7 | 201 | 104 | 329,20 | 331,04 | 6,5 | 5 | 24H7 | 311 |
| 70 | 220,95 | 222,82 | 6,5 | 5 | 16H7 | 203 | 105 | 332,35 | 334,23 | 6,5 | 5 | 24H7 | 314 |
| 71 | 224,15 | 226,00 | 6,5 | 5 | 16H7 | 206 | 106 | 335,55 | 337,41 | 6,5 | 5 | 24H7 | 317 |
| 72 | 227,35 | 229,18 | 6,5 | 5 | 20H7 | 209 | 107 | 338,75 | 340,59 | 6,5 | 5 | 24H7 | 321 |
| 73 | 230,50 | 232,37 | 6,5 | 5 | 20H7 | 212 | 108 | 341,90 | 343,77 | 6,5 | 5 | 24H7 | 324 |
| 74 | 233,70 | 235,55 | 6,5 | 5 | 20H7 | 215 | 109 | 345,10 | 346,96 | 6,5 | 5 | 24H7 | 327 |
| 75 | 236,90 | 238,73 | 6,5 | 5 | 20H7 | 218 | 110 | 348,30 | 350,14 | 6,5 | 5 | 24H7 | 330 |
| 76 | 240,05 | 241,92 | 6,5 | 5 | 20H7 | 222 | 111 | 351,45 | 353,32 | 6,5 | 5 | 24H7 | 333 |
| 77 | 243,25 | 245,10 | 6,5 | 5 | 20H7 | 225 | 112 | 354,65 | 356,51 | 6,5 | 5 | 24H7 | 336 |
| 78 | 246,40 | 248,28 | 6,5 | 5 | 20H7 | 228 | 113 | 357,85 | 359,69 | 6,5 | 5 | 24H7 | 339 |
| 79 | 249,60 | 251,46 | 6,5 | 5 | 20H7 | 232 | 114 | 361,00 | 362,87 | 6,5 | 5 | 24H7 | 343 |

Self-tracking pulleys

TK 20 K13



Order example:

Pulley Al 55 TK 20K13 / 32 d = 15H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:

AlCuMgPb

| | | | | | |
|--------------|--------|----|----|-----|-----|
| Belt width | b [mm] | 50 | 75 | 100 | 150 |
| Pulley width | B [mm] | 55 | 80 | 105 | 155 |

In-between widths and larger widths are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B^k = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

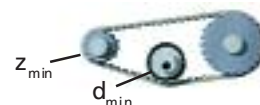
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 120\text{mm}$ running on the back of the belt $\varnothing 180\text{mm}$

Drive type

without contraflexure



with contraflexure



| z | d_k [mm] | d_0 [mm] | s | t | d_V | Bore | |
|-----|---------------|---------------|------|-----|-------|-------------------|--|
| | | | | | | d_{max} [mm] | |
| *15 | 92,65 | 95,49 | 13,5 | 7,5 | 12H7 | 62 | |
| 16 | 99,00 | 101,86 | 13,5 | 7,5 | 12H7 | 69 | |
| 17 | 105,35 | 108,23 | 13,5 | 7,5 | 12H7 | 75 | |
| 18 | 111,75 | 114,59 | 13,5 | 7,5 | 12H7 | 91 | |
| 19 | 118,10 | 120,96 | 13,5 | 7,5 | 12H7 | 98 | |
| 20 | 124,45 | 127,32 | 13,5 | 7,5 | 16H7 | 94 | |
| 21 | 130,85 | 133,69 | 13,5 | 7,5 | 16H7 | 100 | |
| 22 | 137,20 | 140,06 | 13,5 | 7,5 | 16H7 | 107 | |
| 23 | 143,55 | 146,42 | 13,5 | 7,5 | 16H7 | 113 | |
| 24 | 149,95 | 152,79 | 13,5 | 7,5 | 16H7 | 119 | |
| *25 | 156,30 | 159,15 | 13,5 | 7,5 | 16H7 | 126 | |
| 26 | 162,65 | 165,52 | 13,5 | 7,5 | 16H7 | 132 | |
| 27 | 169,05 | 171,89 | 13,5 | 7,5 | 16H7 | 139 | |
| 28 | 175,40 | 178,25 | 13,5 | 7,5 | 16H7 | 145 | |
| 29 | 181,75 | 184,62 | 13,5 | 7,5 | 16H7 | 151 | |

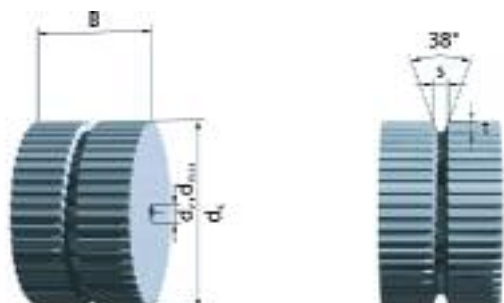
| z | d_k [mm] | d_0 [mm] | s | t | d_V | Bore | |
|----|---------------|---------------|------|-----|-------|-------------------|--|
| | | | | | | d_{max} [mm] | |
| 30 | 188,15 | 190,99 | 13,5 | 7,5 | 16H7 | 158 | |
| 31 | 194,50 | 197,35 | 13,5 | 7,5 | 16H7 | 164 | |
| 32 | 200,85 | 203,72 | 13,5 | 7,5 | 16H7 | 170 | |
| 33 | 207,25 | 210,08 | 13,5 | 7,5 | 16H7 | 177 | |
| 34 | 213,60 | 216,45 | 13,5 | 7,5 | 16H7 | 183 | |
| 35 | 219,95 | 222,82 | 13,5 | 7,5 | 16H7 | 190 | |
| 36 | 226,35 | 229,18 | 13,5 | 7,5 | 18H7 | 196 | |
| 37 | 232,70 | 235,55 | 13,5 | 7,5 | 18H7 | 202 | |
| 38 | 239,05 | 241,92 | 13,5 | 7,5 | 18H7 | 209 | |
| 39 | 245,40 | 248,28 | 13,5 | 7,5 | 18H7 | 215 | |
| 40 | 251,80 | 254,65 | 13,5 | 7,5 | 18H7 | 221 | |
| 41 | 258,15 | 261,01 | 13,5 | 7,5 | 18H7 | 228 | |
| 42 | 264,50 | 267,38 | 13,5 | 7,5 | 18H7 | 234 | |
| 43 | 270,90 | 273,75 | 13,5 | 7,5 | 18H7 | 240 | |
| 44 | 277,25 | 280,11 | 13,5 | 7,5 | 18H7 | 247 | |

TK 20 K13

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|-----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 283,60 | 286,48 | 13,5 | 7,5 | 18H7 | 253 | 80 | 506,45 | 509,30 | 13,5 | 7,5 | 30H7 | 476 |
| 46 | 290,00 | 292,85 | 13,5 | 7,5 | 18H7 | 260 | 81 | 512,80 | 515,66 | 13,5 | 7,5 | 30H7 | 482 |
| 47 | 296,35 | 299,21 | 13,5 | 7,5 | 18H7 | 266 | 82 | 519,15 | 522,03 | 13,5 | 7,5 | 30H7 | 489 |
| 48 | 302,70 | 305,58 | 13,5 | 7,5 | 18H7 | 272 | 83 | 525,55 | 528,39 | 13,5 | 7,5 | 30H7 | 495 |
| 49 | 309,10 | 311,94 | 13,5 | 7,5 | 20H7 | 279 | 84 | 531,90 | 534,76 | 13,5 | 7,5 | 30H7 | 500 |
| 50 | 315,45 | 318,31 | 13,5 | 7,5 | 20H7 | 285 | 85 | 538,25 | 541,13 | 13,5 | 7,5 | 30H7 | 500 |
| 51 | 321,80 | 324,68 | 13,5 | 7,5 | 20H7 | 292 | 86 | 544,65 | 547,49 | 13,5 | 7,5 | 30H7 | 504 |
| 52 | 328,20 | 331,04 | 13,5 | 7,5 | 20H7 | 298 | 87 | 551,00 | 553,86 | 13,5 | 7,5 | 30H7 | 511 |
| 53 | 334,55 | 337,41 | 13,5 | 7,5 | 20H7 | 304 | 88 | 557,35 | 560,23 | 13,5 | 7,5 | 30H7 | 517 |
| 54 | 340,90 | 343,77 | 13,5 | 7,5 | 20H7 | 310 | 89 | 563,70 | 566,59 | 13,5 | 7,5 | 30H7 | 523 |
| 55 | 347,30 | 350,14 | 13,5 | 7,5 | 20H7 | 317 | 90 | 570,10 | 572,96 | 13,5 | 7,5 | 30H7 | 530 |
| 56 | 353,65 | 356,51 | 13,5 | 7,5 | 20H7 | 323 | 91 | 576,45 | 579,32 | 13,5 | 7,5 | 30H7 | 536 |
| 57 | 360,00 | 362,87 | 13,5 | 7,5 | 20H7 | 330 | 92 | 582,80 | 585,69 | 13,5 | 7,5 | 30H7 | 542 |
| 58 | 366,40 | 396,24 | 13,5 | 7,5 | 20H7 | 336 | 93 | 589,20 | 592,06 | 13,5 | 7,5 | 30H7 | 549 |
| 59 | 372,75 | 375,61 | 13,5 | 7,5 | 20H7 | 342 | 94 | 595,55 | 598,42 | 13,5 | 7,5 | 30H7 | 555 |
| 60 | 379,10 | 381,97 | 13,5 | 7,5 | 20H7 | 349 | 95 | 601,90 | 604,79 | 13,5 | 7,5 | 40H7 | 562 |
| 61 | 385,50 | 388,34 | 13,5 | 7,5 | 20H7 | 355 | 96 | 608,30 | 611,15 | 13,5 | 7,5 | 40H7 | 568 |
| 62 | 391,85 | 394,70 | 13,5 | 7,5 | 20H7 | 362 | 97 | 614,65 | 617,52 | 13,5 | 7,5 | 40H7 | 574 |
| 63 | 398,20 | 401,07 | 13,5 | 7,5 | 20H7 | 368 | 98 | 621,00 | 623,89 | 13,5 | 7,5 | 40H7 | 581 |
| 64 | 404,55 | 407,44 | 13,5 | 7,5 | 20H7 | 374 | 99 | 627,40 | 630,25 | 13,5 | 7,5 | 40H7 | 587 |
| 65 | 410,95 | 413,80 | 13,5 | 7,5 | 20H7 | 380 | 100 | 633,75 | 636,62 | 13,5 | 7,5 | 40H7 | 593 |
| 66 | 417,30 | 420,17 | 13,5 | 7,5 | 20H7 | 387 | 101 | 640,10 | 642,99 | 13,5 | 7,5 | 40H7 | 600 |
| 67 | 423,65 | 426,54 | 13,5 | 7,5 | 20H7 | 393 | 102 | 646,50 | 649,35 | 13,5 | 7,5 | 40H7 | 606 |
| 68 | 430,05 | 432,90 | 13,5 | 7,5 | 20H7 | 400 | 103 | 652,85 | 655,72 | 13,5 | 7,5 | 40H7 | 612 |
| 69 | 436,40 | 439,27 | 13,5 | 7,5 | 20H7 | 406 | 104 | 659,20 | 662,08 | 13,5 | 7,5 | 40H7 | 619 |
| 70 | 442,75 | 445,63 | 13,5 | 7,5 | 20H7 | 412 | 105 | 665,60 | 668,45 | 13,5 | 7,5 | 40H7 | 625 |
| 71 | 449,15 | 452,00 | 13,5 | 7,5 | 20H7 | 419 | 106 | 671,95 | 674,82 | 13,5 | 7,5 | 40H7 | 632 |
| 72 | 455,50 | 458,37 | 13,5 | 7,5 | 20H7 | 425 | 107 | 678,30 | 681,18 | 13,5 | 7,5 | 40H7 | 638 |
| 73 | 461,85 | 464,73 | 13,5 | 7,5 | 30H7 | 431 | 108 | 684,70 | 687,55 | 13,5 | 7,5 | 40H7 | 644 |
| 74 | 468,25 | 471,10 | 13,5 | 7,5 | 30H7 | 438 | 109 | 691,05 | 693,92 | 13,5 | 7,5 | 40H7 | 651 |
| 75 | 474,60 | 477,46 | 13,5 | 7,5 | 30H7 | 444 | 110 | 697,40 | 700,28 | 13,5 | 7,5 | 40H7 | 659 |
| 76 | 480,95 | 483,83 | 13,5 | 7,5 | 30H7 | 451 | 111 | 703,80 | 706,65 | 13,5 | 7,5 | 40H7 | 663 |
| 77 | 487,35 | 490,20 | 13,5 | 7,5 | 30H7 | 457 | 112 | 710,15 | 713,01 | 13,5 | 7,5 | 40H7 | 670 |
| 78 | 493,70 | 496,56 | 13,5 | 7,5 | 30H7 | 463 | 113 | 716,50 | 719,38 | 13,5 | 7,5 | 40H7 | 676 |
| 79 | 500,05 | 502,93 | 13,5 | 7,5 | 30H7 | 470 | 114 | 722,85 | 725,75 | 13,5 | 7,5 | 40H7 | 682 |

Self-tracking pulleys

TK1/2"K 13



Order example:

Pulley Al 55 TK1/2" K 13 / 32 d = 15 H7
 Material _____
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 Bore _____

Further ordering information on page 236 and following.

Material:

AlCuMgPb

| | | | | | |
|--------------|--------|------|------|------|-------|
| Belt width | b [mm] | 38,1 | 50,8 | 76,2 | 101,6 |
| Pulley width | B [mm] | 42 | 55 | 80 | 105 |

In-between widths and larger widths are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

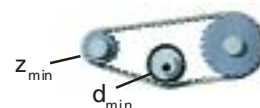
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 80$ mm running on the back of the belt $\varnothing 80$ mm

Drive type

without contraflexure



with contraflexure



| z | d_k [mm] | d_0 [mm] | s | t | Bore | |
|------|---------------|---------------|------|-----|-------|-------------------|
| | | | | | d_v | d_{max} [mm] |
| *18 | 71,40 | 72,77 | 13,5 | 7,5 | 12H7 | 47 |
| 19 | 75,44 | 76,81 | 13,5 | 7,5 | 12H7 | 51 |
| 20 | 79,48 | 80,85 | 13,5 | 7,5 | 12H7 | 55 |
| 21 | 83,52 | 84,89 | 13,5 | 7,5 | 12H7 | 60 |
| 22 | 87,57 | 88,94 | 13,5 | 7,5 | 12H7 | 64 |
| 23 | 91,61 | 92,98 | 13,5 | 7,5 | 12H7 | 68 |
| 24 | 95,65 | 97,02 | 13,5 | 7,5 | 12H7 | 72 |
| **25 | 99,69 | 101,06 | 13,5 | 7,5 | 15H7 | 76 |
| 26 | 103,74 | 105,11 | 13,5 | 7,5 | 15H7 | 80 |
| 27 | 107,78 | 109,15 | 13,5 | 7,5 | 15H7 | 84 |
| 28 | 111,82 | 113,19 | 13,5 | 7,5 | 15H7 | 88 |
| 29 | 115,86 | 117,23 | 13,5 | 7,5 | 15H7 | 92 |

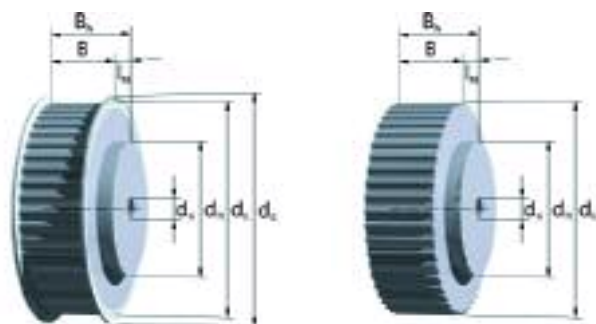
| z | d_k [mm] | d_0 [mm] | s | t | Bore | |
|----|---------------|---------------|------|-----|-------|-------------------|
| | | | | | d_v | d_{max} [mm] |
| 30 | 119,91 | 121,28 | 13,5 | 7,5 | 15H7 | 96 |
| 31 | 123,95 | 125,32 | 13,5 | 7,5 | 20H7 | 100 |
| 32 | 127,99 | 129,36 | 13,5 | 7,5 | 20H7 | 104 |
| 33 | 132,03 | 133,40 | 13,5 | 7,5 | 20H7 | 108 |
| 34 | 136,08 | 137,45 | 13,5 | 7,5 | 20H7 | 112 |
| 35 | 140,12 | 141,49 | 13,5 | 7,5 | 20H7 | 116 |
| 36 | 144,16 | 145,53 | 13,5 | 7,5 | 20H7 | 120 |
| 37 | 148,20 | 149,57 | 13,5 | 7,5 | 20H7 | 124 |
| 38 | 152,25 | 153,62 | 13,5 | 7,5 | 20H7 | 128 |
| 39 | 156,29 | 157,66 | 13,5 | 7,5 | 20H7 | 132 |
| 40 | 160,33 | 161,70 | 13,5 | 7,5 | 20H7 | 136 |
| 41 | 164,37 | 165,74 | 13,5 | 7,5 | 20H7 | 140 |
| 42 | 168,42 | 169,79 | 13,5 | 7,5 | 20H7 | 144 |
| 43 | 172,46 | 173,83 | 13,5 | 7,5 | 20H7 | 148 |
| 44 | 176,50 | 177,87 | 13,5 | 7,5 | 20H7 | 153 |

TK1/2"K 13

| z | d _k [mm] | d ₀ [mm] | s | t | Bore | | z | d _k [mm] | d ₀ [mm] | s | t | Bore | |
|----|------------------------|------------------------|------|-----|----------------|--------------------------|-----|------------------------|------------------------|------|-----|----------------|--------------------------|
| | | | | | d _v | d _{max} [mm] | | | | | | d _v | d _{max} [mm] |
| 45 | 180,54 | 181,91 | 13,5 | 7,5 | 20H7 | 157 | 80 | 322,03 | 323,40 | 13,5 | 7,5 | 20H7 | 298 |
| 46 | 184,59 | 185,96 | 13,5 | 7,5 | 20H7 | 161 | 81 | 326,07 | 327,45 | 13,5 | 7,5 | 20H7 | 302 |
| 47 | 188,63 | 190,00 | 13,5 | 7,5 | 20H7 | 165 | 82 | 330,12 | 331,49 | 13,5 | 7,5 | 20H7 | 306 |
| 48 | 192,67 | 194,04 | 13,5 | 7,5 | 20H7 | 169 | 83 | 334,16 | 335,53 | 13,5 | 7,5 | 20H7 | 310 |
| 49 | 196,71 | 198,08 | 13,5 | 7,5 | 20H7 | 173 | 84 | 338,20 | 339,57 | 13,5 | 7,5 | 20H7 | 314 |
| 50 | 200,76 | 202,13 | 13,5 | 7,5 | 20H7 | 177 | 85 | 342,24 | 343,62 | 13,5 | 7,5 | 20H7 | 318 |
| 51 | 204,80 | 206,17 | 13,5 | 7,5 | 20H7 | 181 | 86 | 346,29 | 347,66 | 13,5 | 7,5 | 20H7 | 322 |
| 52 | 208,84 | 210,21 | 13,5 | 7,5 | 20H7 | 185 | 87 | 350,33 | 351,70 | 13,5 | 7,5 | 20H7 | 326 |
| 53 | 212,88 | 214,25 | 13,5 | 7,5 | 20H7 | 189 | 88 | 354,37 | 355,74 | 13,5 | 7,5 | 20H7 | 330 |
| 54 | 216,93 | 218,30 | 13,5 | 7,5 | 20H7 | 193 | 89 | 358,41 | 359,79 | 13,5 | 7,5 | 20H7 | 334 |
| 55 | 220,97 | 222,34 | 13,5 | 7,5 | 20H7 | 197 | 90 | 362,46 | 363,83 | 13,5 | 7,5 | 20H7 | 338 |
| 56 | 225,01 | 226,38 | 13,5 | 7,5 | 20H7 | 201 | 91 | 366,50 | 367,87 | 13,5 | 7,5 | 20H7 | 342 |
| 57 | 229,05 | 230,42 | 13,5 | 7,5 | 20H7 | 205 | 92 | 370,54 | 371,91 | 13,5 | 7,5 | 20H7 | 347 |
| 58 | 233,10 | 234,47 | 13,5 | 7,5 | 20H7 | 209 | 93 | 374,58 | 375,96 | 13,5 | 7,5 | 20H7 | 351 |
| 59 | 237,14 | 238,51 | 13,5 | 7,5 | 20H7 | 213 | 94 | 378,63 | 380,00 | 13,5 | 7,5 | 20H7 | 355 |
| 60 | 241,18 | 242,55 | 13,5 | 7,5 | 20H7 | 217 | 95 | 382,67 | 384,04 | 13,5 | 7,5 | 20H7 | 359 |
| 61 | 245,22 | 246,59 | 13,5 | 7,5 | 20H7 | 221 | 96 | 386,71 | 388,08 | 13,5 | 7,5 | 20H7 | 363 |
| 62 | 249,27 | 250,64 | 13,5 | 7,5 | 20H7 | 225 | 97 | 390,76 | 392,13 | 13,5 | 7,5 | 24H7 | 367 |
| 63 | 253,31 | 254,68 | 13,5 | 7,5 | 20H7 | 229 | 98 | 394,80 | 396,17 | 13,5 | 7,5 | 24H7 | 371 |
| 64 | 257,35 | 258,72 | 13,5 | 7,5 | 20H7 | 233 | 99 | 398,84 | 400,21 | 13,5 | 7,5 | 24H7 | 375 |
| 65 | 261,39 | 262,76 | 13,5 | 7,5 | 20H7 | 237 | 100 | 402,88 | 404,25 | 13,5 | 7,5 | 24H7 | 379 |
| 66 | 265,44 | 266,81 | 13,5 | 7,5 | 20H7 | 241 | 101 | 406,93 | 408,30 | 13,5 | 7,5 | 24H7 | 383 |
| 67 | 269,48 | 270,85 | 13,5 | 7,5 | 20H7 | 245 | 102 | 410,97 | 412,34 | 13,5 | 7,5 | 24H7 | 387 |
| 68 | 273,52 | 274,89 | 13,5 | 7,5 | 20H7 | 250 | 103 | 415,01 | 416,38 | 13,5 | 7,5 | 24H7 | 391 |
| 69 | 277,56 | 278,93 | 13,5 | 7,5 | 20H7 | 254 | 104 | 419,05 | 420,42 | 13,5 | 7,5 | 24H7 | 395 |
| 70 | 281,61 | 282,98 | 13,5 | 7,5 | 20H7 | 258 | 105 | 423,10 | 424,47 | 13,5 | 7,5 | 24H7 | 399 |
| 71 | 285,65 | 287,02 | 13,5 | 7,5 | 20H7 | 262 | 106 | 427,14 | 428,51 | 13,5 | 7,5 | 24H7 | 403 |
| 72 | 289,69 | 291,06 | 13,5 | 7,5 | 20H7 | 266 | 107 | 431,18 | 432,55 | 13,5 | 7,5 | 24H7 | 407 |
| 73 | 293,73 | 295,11 | 13,5 | 7,5 | 20H7 | 270 | 108 | 435,22 | 436,59 | 13,5 | 7,5 | 24H7 | 411 |
| 74 | 297,78 | 299,15 | 13,5 | 7,5 | 20H7 | 274 | 109 | 439,27 | 440,64 | 13,5 | 7,5 | 24H7 | 415 |
| 75 | 301,82 | 303,19 | 13,5 | 7,5 | 20H7 | 278 | 110 | 443,31 | 444,68 | 13,5 | 7,5 | 24H7 | 419 |
| 76 | 305,86 | 307,23 | 13,5 | 7,5 | 20H7 | 282 | 111 | 447,35 | 448,72 | 13,5 | 7,5 | 24H7 | 423 |
| 77 | 309,90 | 311,28 | 13,5 | 7,5 | 20H7 | 286 | 112 | 451,39 | 452,76 | 13,5 | 7,5 | 24H7 | 427 |
| 78 | 313,95 | 315,32 | 13,5 | 7,5 | 20H7 | 290 | 113 | 455,44 | 456,81 | 13,5 | 7,5 | 24H7 | 431 |
| 79 | 317,99 | 319,36 | 13,5 | 7,5 | 20H7 | 294 | 114 | 459,48 | 460,85 | 13,5 | 7,5 | 24H7 | 435 |

Synchronising pulleys, imperial profile

M



Order example:

Pulley Al 46 M / 32 - 2 Hub 14 x 6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Stock pulleys over $z=24$ with flanges

Stock pulleys up to $z=20$ without flanges

Material:
AlCuMgPb

| | | | | |
|--------------|------------|----|----|----|
| Belt width | b [mm] | 4 | 6 | 10 |
| Pulley width | B [mm] | 8 | 10 | 14 |
| Total width | B_N [mm] | 14 | 16 | 20 |

Drive type

without contraflexure



The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges, with maximum pre-boring, no hub is required
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 15$ mm running on the back of the belt $\varnothing 15$ mm

with contraflexure



| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub | | Bore | |
|-----|---------------|---------------|---------------|--------------------------|-----|---------------|-------------------|
| | | | | $d_N \times l_N$ [mm] | | d_v [mm] | d_{max} [mm] |
| 15 | 9,19 | 9,7 | 13 | - | 3H7 | 3,5 | |
| 16 | 9,84 | 10,35 | 13 | - | 3H7 | 3,5 | |
| 17 | 10,49 | 11,00 | 14 | - | 3H7 | 4 | |
| *18 | 11,13 | 11,64 | 14 | - | 3H7 | 4 | |
| 19 | 11,78 | 12,29 | 15 | - | 3H7 | 5 | |
| 20 | 12,43 | 12,94 | 15 | - | 3H7 | 5 | |
| 21 | 13,07 | 13,58 | 16 | - | 3H7 | 6 | |
| 22 | 13,72 | 14,23 | 16 | - | 3H7 | 6 | |
| 23 | 14,37 | 14,88 | 18 | - | 3H7 | 8 | |
| 24 | 15,02 | 15,52 | 18 | 10x6 | 3H7 | 8 | |

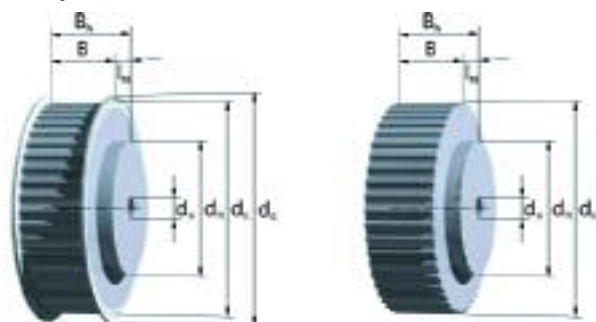
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub | | Bore | |
|----|---------------|---------------|---------------|--------------------------|-----|---------------|-------------------|
| | | | | $d_N \times l_N$ [mm] | | d_v [mm] | d_{max} [mm] |
| 25 | 15,66 | 16,17 | 19 | 10x6 | 3H7 | 9 | |
| 26 | 16,31 | 16,82 | 19 | 10x6 | 3H7 | 9 | |
| 27 | 16,96 | 17,46 | 20 | 10x6 | 3H7 | 10 | |
| 28 | 17,60 | 18,11 | 20 | 10x6 | 3H7 | 10 | |
| 29 | 18,25 | 18,76 | 22 | 10x6 | 3H7 | 12 | |
| 30 | 18,90 | 19,40 | 22 | 10x6 | 3H7 | 12 | |
| 31 | 19,54 | 20,05 | 22 | 10x6 | 3H7 | 12 | |
| 32 | 20,19 | 20,70 | 24 | 14x6 | 3H7 | 13 | |
| 33 | 20,83 | 21,34 | 24 | 14x6 | 3H7 | 13 | |
| 34 | 21,48 | 21,99 | 24 | 14x6 | 3H7 | 13 | |

M

| z | Hub | | | | Bore | | z | Hub | | | | Bore | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 35 | 22,13 | 22,64 | 25 | 14x6 | 3H7 | 14 | 75 | 48,00 | 48,51 | 53 | 34x6 | 6H7 | 36 |
| 36 | 22,78 | 23,29 | 26 | 14x6 | 3H7 | 14 | 76 | 48,65 | 49,16 | 53 | 34x6 | 6H7 | 36 |
| 37 | 23,42 | 23,93 | 26 | 14x6 | 3H7 | 14 | 77 | 49,29 | 49,80 | 53 | 34x6 | 6H7 | 36 |
| 38 | 24,07 | 24,58 | 28 | 14x6 | 3H7 | 16 | 78 | 49,94 | 50,45 | 55 | 34x6 | 6H7 | 41 |
| 39 | 24,72 | 25,23 | 28 | 14x6 | 3H7 | 16 | 79 | 50,59 | 51,10 | 55 | 34x6 | 6H7 | 41 |
| 40 | 25,36 | 25,87 | 28 | 14x6 | 3H7 | 16 | 80 | 51,23 | 51,74 | 55 | 34x6 | 6H7 | 41 |
| 41 | 26,01 | 26,52 | 30 | 14x6 | 3H7 | 18 | 81 | 51,88 | 52,39 | 56 | 34x6 | 6H7 | 42 |
| 42 | 26,66 | 27,17 | 30 | 14x6 | 3H7 | 18 | 82 | 52,53 | 53,04 | 56 | 34x6 | 6H7 | 42 |
| 43 | 27,30 | 27,81 | 30 | 14x6 | 3H7 | 18 | 83 | 53,17 | 53,68 | 58 | 34x6 | 6H7 | 44 |
| 44 | 27,95 | 28,46 | 32 | 14x6 | 3H7 | 18 | 84 | 53,82 | 54,33 | 58 | 34x6 | 6H7 | 44 |
| 45 | 28,60 | 29,11 | 32 | 14x6 | 3H7 | 18 | 85 | 54,47 | 54,98 | 60 | 34x6 | 6H7 | 46 |
| 46 | 29,24 | 29,75 | 32 | 14x6 | 3H7 | 18 | 86 | 55,12 | 55,63 | 60 | 34x6 | 6H7 | 46 |
| 47 | 29,89 | 30,40 | 35 | 14x6 | 3H7 | 21 | 87 | 55,76 | 56,27 | 61 | 34x6 | 8H7 | 47 |
| 48 | 30,54 | 31,05 | 35 | 20x6 | 4H7 | 21 | 88 | 56,41 | 56,92 | 61 | 34x6 | 8H7 | 47 |
| 49 | 31,18 | 31,69 | 35 | 20x6 | 4H7 | 21 | 89 | 57,06 | 57,57 | 62 | 34x6 | 8H7 | 48 |
| 50 | 31,83 | 32,34 | 35 | 20x6 | 4H7 | 21 | 90 | 57,70 | 58,21 | 62 | 34x6 | 8H7 | 48 |
| 51 | 32,48 | 32,99 | 36 | 20x6 | 4H7 | 21 | 91 | 58,35 | 58,86 | 64 | 38x6 | 8H7 | 50 |
| 52 | 33,12 | 33,63 | 36 | 20x6 | 4H7 | 21 | 92 | 59,00 | 59,51 | 64 | 38x6 | 8H7 | 50 |
| 53 | 33,77 | 34,28 | 36 | 20x6 | 4H7 | 21 | 93 | 59,64 | 60,15 | 64 | 38x6 | 8H7 | 50 |
| 54 | 34,42 | 34,93 | 40 | 22x6 | 4H7 | 24 | 94 | 60,29 | 60,80 | 66 | 38x6 | 8H7 | 51 |
| 55 | 35,06 | 35,57 | 40 | 22x6 | 4H7 | 24 | 95 | 60,94 | 61,45 | 66 | 38x6 | 8H7 | 51 |
| 56 | 35,71 | 36,22 | 40 | 22x6 | 4H7 | 24 | 96 | 61,58 | 62,09 | 66 | 38x6 | 8H7 | 52 |
| 57 | 36,36 | 36,87 | 42 | 22x6 | 4H7 | 26 | 97 | 62,23 | 62,74 | 68 | 38x6 | 8H7 | 53 |
| 58 | 37,00 | 37,51 | 42 | 22x6 | 4H7 | 26 | 98 | 62,88 | 63,39 | 68 | 38x6 | 8H7 | 54 |
| 59 | 37,65 | 38,16 | 42 | 22x6 | 4H7 | 26 | 99 | 63,52 | 64,03 | 70 | 38x6 | 8H7 | 56 |
| 60 | 38,30 | 38,81 | 42 | 22x6 | 4H7 | 26 | 100 | 64,17 | 64,68 | 70 | 38x6 | 8H7 | 56 |
| 61 | 38,95 | 39,46 | 42 | 26x6 | 4H7 | 26 | 101 | 64,82 | 65,33 | 70 | 38x6 | 8H7 | 56 |
| 62 | 39,59 | 40,10 | 45 | 26x6 | 4H7 | 28 | 102 | 65,46 | 65,97 | 72 | 38x6 | 8H7 | 58 |
| 63 | 40,24 | 40,75 | 45 | 26x6 | 4H7 | 28 | 103 | 66,11 | 66,62 | 72 | 38x6 | 8H7 | 58 |
| 64 | 40,89 | 41,40 | 45 | 26x6 | 4H7 | 28 | 104 | 66,76 | 67,27 | 72 | 38x6 | 8H7 | 58 |
| 65 | 41,53 | 42,04 | 45 | 26x6 | 6H7 | 28 | 105 | 67,40 | 67,91 | 72 | 38x6 | 8H7 | 58 |
| 66 | 42,18 | 42,69 | 47 | 26x6 | 6H7 | 33 | 106 | 68,05 | 68,56 | 74 | 38x6 | 8H7 | 60 |
| 67 | 42,83 | 43,34 | 47 | 26x6 | 6H7 | 33 | 107 | 68,70 | 69,21 | 74 | 38x6 | 8H7 | 60 |
| 68 | 43,47 | 43,98 | 47 | 26x6 | 6H7 | 33 | 108 | 69,35 | 69,86 | 74 | 38x6 | 8H7 | 60 |
| 69 | 44,12 | 44,63 | 47 | 26x6 | 6H7 | 33 | 109 | 69,99 | 70,50 | 75 | 38x6 | 8H7 | 61 |
| 70 | 44,77 | 45,28 | 50 | 26x6 | 6H7 | 36 | 110 | 70,64 | 71,15 | 75 | 38x6 | 8H7 | 61 |
| 71 | 45,41 | 45,92 | 50 | 26x6 | 6H7 | 36 | 111 | 71,29 | 71,80 | 76 | 38x6 | 8H7 | 62 |
| 72 | 46,06 | 46,57 | 50 | 26x6 | 6H7 | 36 | 112 | 71,93 | 72,44 | 78 | 38x6 | 8H7 | 63 |
| 73 | 46,71 | 47,22 | 50 | 34x6 | 6H7 | 36 | 113 | 72,58 | 73,09 | 78 | 40x6 | 10H7 | 64 |
| 74 | 47,35 | 47,86 | 53 | 34x6 | 6H7 | 36 | 114 | 73,23 | 73,74 | 78 | 40x6 | 10H7 | 64 |

Synchronising pulleys, imperial profile

XL
(T1/5")



Order example:

Pulley AL 18 XL 050
 Material ————
 No. of teeth ————
 Type / Pitch ————
 Width code ————

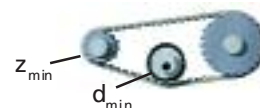
Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | | | | | | | |
|---------------|---------------------|------|------|------|-------------------------------------|------|------|------|------|------|
| Imperial code | | 025 | 031 | 037 | 050 | 075 | 100 | 150 | 200 | 300 |
| Belt width | b [mm] | 6,35 | 7,94 | 9,53 | 12,7 | 19,1 | 25,4 | 38,1 | 50,8 | 76,2 |
| Pulley width | B [mm] | 12 | 14 | 16 | 19 | 25 | 32 | 44 | 59 | 84 |
| Total width | B _N [mm] | | | | B _N = B + l _N | | | | | |

Drive type

without contraflexure



with contraflexure



- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø30 mm running on the back of the belt Ø30 mm

| z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|------|------------------------|------------------------|------------------------|--|---|
| *10 | 15,66 | 16,17 | 20 | 9,5x5,3 | 4H7 7 |
| 11 | 17,28 | 17,79 | 23 | 9,5x5,3 | 4H7 8 |
| 12 | 18,90 | 19,40 | 23 | 12,7x5,3 | 4H7 11 |
| 13 | 20,51 | 21,02 | 25 | 14,3x5,3 | 4H7 13 |
| 14 | 22,13 | 22,64 | 28 | 14,3x5,3 | 6H7 14 |
| **15 | 23,75 | 24,26 | 28 | 15,9x5,3 | 6H7 14 |
| 16 | 25,36 | 25,87 | 30 | 17,5x5,3 | 6H7 18 |
| 17 | 26,98 | 27,49 | 32 | 20,6x5,3 | 6H7 18 |
| 18 | 28,60 | 29,11 | 35 | 20,6x5,3 | 6H7 21 |
| 19 | 30,21 | 30,72 | 36 | 23,8x8,1 | 6H7 22 |

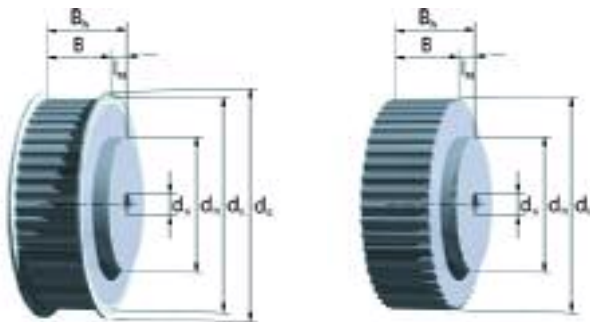
| z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V d _{max} [mm] |
|----|------------------------|------------------------|------------------------|--|---|
| 20 | 31,83 | 32,34 | 37 | 23,8x8,1 | 6H7 23 |
| 21 | 33,45 | 33,96 | 39 | 23,8x8,1 | 6H7 25 |
| 22 | 35,07 | 35,57 | 40 | 25,4x8,1 | 6H7 26 |
| 23 | 36,86 | 37,19 | 42 | 27x8,1 | 6H7 26 |
| 24 | 38,30 | 38,81 | 43 | 27x8,1 | 6H7 27 |
| 25 | 39,92 | 40,43 | 45 | 30x8,1 | 6H7 29 |
| 26 | 41,53 | 42,04 | 47 | 30x8,1 | 6H7 31 |
| 27 | 43,15 | 43,66 | 48 | 30x8,1 | 6H7 32 |
| 28 | 44,77 | 45,28 | 50 | 30x8,1 | 6H7 34 |
| 29 | 46,38 | 46,89 | 52 | 34x8,1 | 6H7 36 |
| 30 | 48,00 | 48,51 | 53 | 34x8,1 | 6H7 37 |
| 31 | 49,62 | 50,13 | 55 | 38x12,1 | 8H7 39 |
| 32 | 51,24 | 51,74 | 56 | 38x12,1 | 8H7 40 |
| 33 | 52,85 | 53,36 | 58 | 38x12,1 | 8H7 42 |
| 34 | 54,47 | 54,98 | 60 | 38x12,1 | 8H7 44 |

XL
(T1/5")

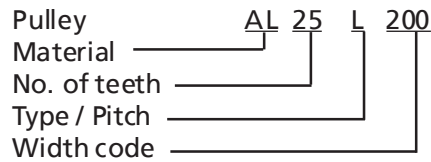
| z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub | | Bore | | z | d _K [mm] | d ₀ [mm] | d _B [mm] | Hub | | Bore | |
|----|------------------------|------------------------|------------------------|---|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|---|----------------|--------------------------|
| | | | | d _N x l _N [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | | | | d _N x l _N [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 35 | 56,09 | 56,60 | 62 | 38x12,1 | 8H7 | 46 | | 75 | 120,77 | 121,28 | 128 | 45x12,1 | 10H7 | 108 | |
| 36 | 57,70 | 58,21 | 62 | 38x12,1 | 8H7 | 46 | | 76 | 122,38 | 122,89 | 128 | 45x12,1 | 10H7 | 108 | |
| 37 | 59,32 | 59,83 | 64 | 38x12,1 | 8H7 | 48 | | 77 | 124,00 | 124,51 | 131 | 45x12,1 | 10H7 | 111 | |
| 38 | 60,94 | 61,45 | 66 | 38x12,1 | 8H7 | 48 | | 78 | 125,62 | 126,13 | 131 | 45x12,1 | 10H7 | 111 | |
| 39 | 62,55 | 63,06 | 68 | 38x12,1 | 8H7 | 50 | | 79 | 127,23 | 127,74 | 134 | 45x12,1 | 10H7 | 110 | |
| 40 | 64,17 | 64,68 | 72 | 38x12,1 | 8H7 | 54 | | 80 | 128,85 | 129,36 | 134 | 45x12,1 | 10H7 | 110 | |
| 41 | 65,79 | 66,30 | 72 | 38x12,1 | 8H7 | 54 | | 81 | 130,47 | 130,98 | 137 | 45x12,1 | 10H7 | 113 | |
| 42 | 67,40 | 67,91 | 72 | 38x12,1 | 8H7 | 54 | | 82 | 132,08 | 132,60 | 137 | 45x12,1 | 10H7 | 113 | |
| 43 | 69,02 | 69,53 | 74 | 38x12,1 | 8H7 | 56 | | 83 | 133,70 | 134,21 | 140 | 45x12,1 | 10H7 | 116 | |
| 44 | 70,64 | 71,15 | 75 | 38x12,1 | 8H7 | 57 | | 84 | 135,32 | 135,83 | 140 | 45x12,1 | 10H7 | 116 | |
| 45 | 72,26 | 72,77 | 78 | 38x12,1 | 8H7 | 60 | | 85 | 136,94 | 137,45 | 144 | 45x12,1 | 10H7 | 120 | |
| 46 | 73,87 | 74,38 | 80 | 38x12,1 | 8H7 | 62 | | 86 | 138,55 | 139,06 | 144 | 45x12,1 | 10H7 | 120 | |
| 47 | 75,49 | 76,00 | 80 | 38x12,1 | 8H7 | 62 | | 87 | 140,17 | 140,68 | 147 | 45x12,1 | 10H7 | 123 | |
| 48 | 77,11 | 77,62 | 82 | 38x12,1 | 8H7 | 64 | | 88 | 141,79 | 142,30 | 147 | 45x12,1 | 10H7 | 123 | |
| 49 | 78,72 | 79,23 | 84 | 38x12,1 | 8H7 | 66 | | 89 | 143,40 | 143,91 | 150 | 45x12,1 | 10H7 | 126 | |
| 50 | 80,34 | 80,85 | 86 | 38x12,1 | 8H7 | 68 | | 90 | 145,02 | 145,53 | 150 | 45x12,1 | 10H7 | 126 | |
| 51 | 81,96 | 82,47 | 88 | 38x12,1 | 8H7 | 70 | | 91 | 146,64 | 147,15 | 153 | 45x12,1 | 10H7 | 129 | |
| 52 | 83,57 | 84,08 | 90 | 38x12,1 | 8H7 | 72 | | 92 | 148,25 | 148,77 | 153 | 45x12,1 | 10H7 | 129 | |
| 53 | 85,19 | 85,70 | 90 | 38x12,1 | 8H7 | 72 | | 93 | 149,87 | 150,38 | 156 | 45x12,1 | 10H7 | 132 | |
| 54 | 86,81 | 87,32 | 91 | 38x12,1 | 8H7 | 73 | | 94 | 151,49 | 152,00 | 158 | 45x12,1 | 10H7 | 134 | |
| 55 | 88,43 | 88,94 | 93 | 38x12,1 | 8H7 | 75 | | 95 | 153,11 | 153,62 | 158 | 55x12,1 | 12H7 | 134 | |
| 56 | 90,04 | 90,55 | 96 | 38x12,1 | 8H7 | 78 | | 96 | 154,72 | 155,23 | 160 | 55x12,1 | 12H7 | 136 | |
| 57 | 91,66 | 92,17 | 99 | 38x12,1 | 8H7 | 79 | | 97 | 156,34 | 156,85 | 163 | 55x12,1 | 12H7 | 139 | |
| 58 | 93,28 | 93,79 | 99 | 38x12,1 | 8H7 | 79 | | 98 | 157,96 | 158,47 | 166 | 55x12,1 | 12H7 | 142 | |
| 59 | 94,89 | 95,40 | 100 | 38x12,1 | 8H7 | 80 | | 99 | 159,57 | 160,08 | 166 | 55x12,1 | 12H7 | 142 | |
| 60 | 96,51 | 97,02 | 102 | 38x12,1 | 8H7 | 82 | | 100 | 161,19 | 161,70 | 169 | 55x12,1 | 12H7 | 145 | |
| 61 | 98,13 | 98,64 | 104 | 38x12,1 | 8H7 | 84 | | 101 | 162,81 | 163,32 | 169 | 55x12,1 | 12H7 | 145 | |
| 62 | 99,74 | 100,25 | 106 | 38x12,1 | 8H7 | 86 | | 102 | 164,43 | 164,94 | 171 | 55x12,1 | 12H7 | 147 | |
| 63 | 101,36 | 101,87 | 106 | 38x12,1 | 8H7 | 86 | | 103 | 166,04 | 166,55 | 171 | 55x12,1 | 12H7 | 147 | |
| 64 | 102,98 | 103,49 | 109 | 38x12,1 | 8H7 | 89 | | 104 | 167,66 | 168,17 | 174 | 55x12,1 | 12H7 | 150 | |
| 65 | 104,60 | 105,11 | 109 | 38x12,1 | 8H7 | 89 | | 105 | 169,28 | 169,79 | 174 | 55x12,1 | 12H7 | 150 | |
| 66 | 106,21 | 106,72 | 112 | 38x12,1 | 8H7 | 92 | | 106 | 170,89 | 171,40 | 176 | 55x12,1 | 12H7 | 152 | |
| 67 | 107,83 | 108,34 | 115 | 38x12,1 | 8H7 | 95 | | 107 | 172,51 | 173,02 | 179 | 55x12,1 | 12H7 | 155 | |
| 68 | 109,45 | 109,96 | 115 | 38x12,1 | 8H7 | 95 | | 108 | 174,13 | 174,64 | 179 | 55x12,1 | 12H7 | 155 | |
| 69 | 111,06 | 111,57 | 117 | 38x12,1 | 8H7 | 97 | | 109 | 175,74 | 176,25 | 182 | 55x12,1 | 12H7 | 158 | |
| 70 | 112,68 | 113,19 | 118 | 38x12,1 | 8H7 | 98 | | 110 | 177,36 | 177,87 | 182 | 55x12,1 | 12H7 | 158 | |
| 71 | 114,30 | 114,81 | 118 | 38x12,1 | 8H7 | 98 | | 111 | 178,98 | 179,49 | 185 | 55x12,1 | 12H7 | 161 | |
| 72 | 115,92 | 116,43 | 121 | 38x12,1 | 8H7 | 101 | | 112 | 180,60 | 181,11 | 188 | 55x12,1 | 12H7 | 164 | |
| 73 | 117,53 | 118,04 | 123 | 45x12,1 | 10H7 | 103 | | 113 | 182,21 | 182,72 | 188 | 55x12,1 | 12H7 | 164 | |
| 74 | 119,15 | 119,66 | 125 | 45x12,1 | 10H7 | 105 | | 114 | 183,83 | 184,34 | 191 | 55x12,1 | 12H7 | 167 | |

Synchronising pulleys, imperial profile

L
(T3/8")



Order example:



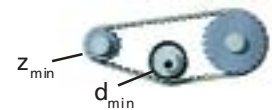
Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | | | | | | |
|---------------|---------------------|------|------|------|-------------------------------------|------|------|------|-------|
| Imperial code | | 037 | 050 | 075 | 100 | 150 | 200 | 300 | 400 |
| Belt width | b [mm] | 9,53 | 12,7 | 19,1 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 |
| Pulley width | B [mm] | 16 | 19 | 25 | 32 | 44 | 59 | 84 | 111 |
| Total width | B _N [mm] | | | | B _N = B + l _N | | | | |

Drive type

without contraflexure



with contraflexure



In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø60 mm running on the back of the belt Ø60 mm

| z | Hub | | | Bore | | |
|------|---------------------|---------------------|---------------------|--------------------------------------|---------------------|-----------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] |
| *15 | 44,72 | 45,48 | 51 | 36x7 | 8H7 | 34 |
| 16 | 47,75 | 48,51 | 55 | 38x7 | 8H7 | 36 |
| 17 | 50,78 | 51,54 | 58 | 40x7 | 10H7 | 38 |
| 18 | 53,81 | 54,57 | 61 | 40x7 | 10H7 | 41 |
| 19 | 56,84 | 57,61 | 64 | 40x7 | 10H7 | 44 |
| **20 | 59,88 | 60,64 | 67 | 46x7 | 10H7 | 47 |
| 21 | 62,91 | 63,67 | 70 | 46x7 | 10H7 | 50 |
| 22 | 65,94 | 66,70 | 72 | 50x7 | 10H7 | 52 |
| 23 | 68,97 | 69,73 | 74 | 50x7 | 12H7 | 54 |
| 24 | 72,00 | 72,77 | 78 | 50x7 | 12H7 | 58 |
| 25 | 75,04 | 75,80 | 82 | 50x7 | 12H7 | 62 |
| 26 | 78,07 | 78,83 | 84 | 50x7 | 12H7 | 62 |
| 27 | 81,10 | 81,86 | 86 | 50x7 | 12H7 | 66 |
| 28 | 84,13 | 84,89 | 90 | 50x7 | 12H7 | 70 |
| 29 | 87,16 | 87,93 | 93 | 50x7 | 12H7 | 73 |

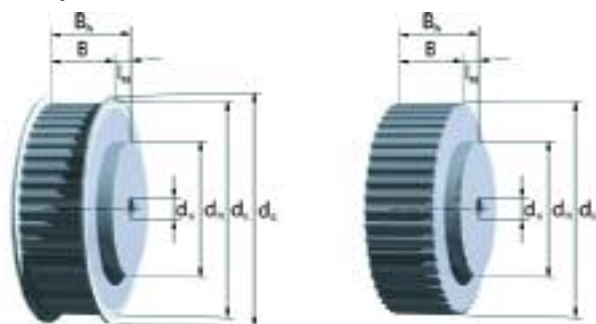
| z | Hub | | | Bore | | |
|----|---------------------|---------------------|---------------------|--------------------------------------|---------------------|-----------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] |
| 30 | 90,20 | 90,96 | 97 | 50x7 | 12H7 | 77 |
| 31 | 93,23 | 93,99 | 99 | 50x7 | 12H7 | 79 |
| 32 | 96,26 | 97,02 | 101 | 50x7 | 12H7 | 81 |
| 33 | 99,29 | 100,05 | 106 | 50x7 | 12H7 | 86 |
| 34 | 102,32 | 103,08 | 108 | 50x7 | 12H7 | 88 |
| 35 | 105,36 | 106,12 | 110 | 50x7 | 12H7 | 90 |
| 36 | 108,39 | 109,15 | 115 | 50x7 | 12H7 | 95 |
| 37 | 111,42 | 112,18 | 118 | 50x7 | 12H7 | 98 |
| 38 | 114,45 | 115,21 | 121 | 50x7 | 12H7 | 100 |
| 39 | 117,48 | 118,24 | 123 | 50x7 | 12H7 | 102 |
| 40 | 120,51 | 121,28 | 126 | 50x7 | 12H7 | 104 |
| 41 | 123,55 | 124,31 | 129 | 50x7 | 12H7 | 107 |
| 42 | 126,58 | 127,34 | 131 | 50x7 | 12H7 | 109 |
| 43 | 129,61 | 130,37 | 137 | 50x7 | 12H7 | 111 |
| 44 | 132,64 | 133,40 | 137 | 50x7 | 12H7 | 115 |

L
(T3/8")

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 45 | 135,68 | 136,44 | 140 | 50x7 | 12H7 | 118 | 80 | 241,79 | 242,55 | 248 | 50x9 | 15H7 | 222 |
| 46 | 138,71 | 139,47 | 145 | 50x7 | 12H7 | 123 | 81 | 244,82 | 245,58 | 252 | 50x9 | 15H7 | 222 |
| 47 | 141,74 | 142,50 | 148 | 50x7 | 12H7 | 126 | 82 | 247,86 | 248,62 | 252 | 50x9 | 15H7 | 222 |
| 48 | 144,77 | 145,53 | 153 | 50x7 | 12H7 | 131 | 83 | 250,89 | 251,65 | 255 | 50x9 | 15H7 | 225 |
| 49 | 147,80 | 148,56 | 153 | 50x9 | 15H7 | 131 | 84 | 253,92 | 254,68 | 258 | 50x9 | 15H7 | 234 |
| 50 | 150,83 | 151,60 | 156 | 50x9 | 15H7 | 134 | 85 | 256,95 | 257,71 | 261 | 65x9 | 20H7 | 237 |
| 51 | 153,87 | 154,63 | 161 | 50x9 | 15H7 | 139 | 86 | 259,98 | 260,74 | 265 | 65x9 | 20H7 | 241 |
| 52 | 156,90 | 157,66 | 164 | 50x9 | 15H7 | 142 | 87 | 263,01 | 263,78 | 271 | 65x9 | 20H7 | 241 |
| 53 | 159,93 | 160,69 | 166 | 50x9 | 15H7 | 144 | 88 | 266,05 | 266,81 | 274 | 65x9 | 20H7 | 244 |
| 54 | 162,96 | 163,72 | 169 | 50x9 | 15H7 | 147 | 89 | 269,08 | 269,84 | 277 | 65x9 | 20H7 | 247 |
| 55 | 165,99 | 166,75 | 171 | 50x9 | 15H7 | 149 | 90 | 272,11 | 272,87 | 280 | 65x9 | 20H7 | 250 |
| 56 | 169,03 | 169,79 | 174 | 50x9 | 15H7 | 152 | 91 | 275,14 | 275,90 | 280 | 65x9 | 20H7 | 256 |
| 57 | 172,06 | 172,82 | 179 | 50x9 | 15H7 | 157 | 92 | 278,17 | 278,93 | 284 | 65x9 | 20H7 | 260 |
| 58 | 175,09 | 175,85 | 182 | 50x9 | 15H7 | 160 | 93 | 281,21 | 281,97 | 287 | 65x9 | 20H7 | 263 |
| 59 | 178,12 | 178,88 | 185 | 50x9 | 15H7 | 163 | 94 | 284,24 | 285,00 | 290 | 65x9 | 20H7 | 266 |
| 60 | 181,15 | 181,91 | 188 | 50x9 | 15H7 | 166 | 95 | 287,27 | 288,03 | 293 | 65x9 | 20H7 | 254 |
| 61 | 184,19 | 184,95 | 192 | 50x9 | 15H7 | 167 | 96 | 290,30 | 291,06 | 296 | 65x9 | 20H7 | 257 |
| 62 | 187,22 | 187,98 | 192 | 50x9 | 15H7 | 167 | 97 | 293,33 | 294,09 | 300 | 65x9 | 20H7 | 261 |
| 63 | 190,25 | 191,01 | 195 | 50x9 | 15H7 | 173 | 98 | 296,37 | 297,13 | 302 | 65x9 | 20H7 | 264 |
| 64 | 193,28 | 194,04 | 198 | 50x9 | 15H7 | 176 | 99 | 299,40 | 300,16 | 306 | 65x9 | 20H7 | 267 |
| 65 | 196,31 | 197,07 | 205 | 50x9 | 15H7 | 180 | 100 | 302,43 | 303,19 | 310 | 75x9 | 24H7 | 270 |
| 66 | 199,35 | 200,11 | 205 | 50x9 | 15H7 | 180 | 101 | 305,46 | 306,22 | 312 | 75x9 | 24H7 | 273 |
| 67 | 202,38 | 203,14 | 210 | 50x9 | 15H7 | 186 | 102 | 308,49 | 309,25 | 315 | 75x9 | 24H7 | 277 |
| 68 | 205,41 | 206,17 | 212 | 50x9 | 15H7 | 186 | 103 | 311,53 | 312,29 | 318 | 75x9 | 24H7 | 280 |
| 69 | 208,44 | 209,20 | 216 | 50x9 | 15H7 | 190 | 104 | 314,56 | 315,32 | 320 | 75x9 | 24H7 | 280 |
| 70 | 211,47 | 212,23 | 216 | 50x9 | 15H7 | 190 | 105 | 317,59 | 318,35 | 325 | 75x9 | 24H7 | 286 |
| 71 | 214,50 | 215,27 | 220 | 50x9 | 15H7 | 196 | 106 | 320,62 | 321,38 | 329 | 75x9 | 24H7 | 289 |
| 72 | 217,53 | 218,30 | 223 | 50x9 | 15H7 | 199 | 107 | 323,65 | 324,41 | 329 | 75x9 | 24H7 | 289 |
| 73 | 220,57 | 221,33 | 226 | 50x9 | 15H7 | 202 | 108 | 326,68 | 327,45 | 332 | 75x9 | 24H7 | 293 |
| 74 | 223,60 | 224,36 | 230 | 50x9 | 15H7 | 206 | 109 | 329,72 | 330,48 | 335 | 75x9 | 24H7 | 296 |
| 75 | 226,63 | 227,39 | 232 | 50x9 | 15H7 | 208 | 110 | 332,75 | 333,51 | 339 | 75x9 | 24H7 | 299 |
| 76 | 229,66 | 230,42 | 236 | 50x9 | 15H7 | 212 | 111 | 335,78 | 336,54 | 341 | 75x9 | 24H7 | 302 |
| 77 | 232,70 | 233,46 | 239 | 50x9 | 15H7 | 215 | 112 | 338,81 | 339,57 | 344 | 75x9 | 24H7 | 305 |
| 78 | 235,73 | 236,49 | 242 | 50x9 | 15H7 | 218 | 113 | 341,84 | 342,60 | 348 | 75x9 | 24H7 | 308 |
| 79 | 238,76 | 239,52 | 245 | 50x9 | 15H7 | 221 | 114 | 344,88 | 345,64 | 351 | 75x9 | 24H7 | 312 |

Synchronising pulleys, imperial profile

H
(T1/2")



Order example:

Pulley AL 25 H 200 -2
 Material ————
 No. of teeth ————
 Type / Pitch ————
 Width code ————
 No. of flanges ————

Further ordering information on page 236 and following.

Material:
AlCuMgPb

| | | | | | | | | |
|---------------|---------------------|------|------|------|------|-------------------------------------|------|-------|
| Imperial code | | 050 | 075 | 100 | 150 | 200 | 300 | 400 |
| Belt width | b [mm] | 12,7 | 19,1 | 25,4 | 38,1 | 50,8 | 76,2 | 101,6 |
| Pulley width | B [mm] | 19 | 25 | 32 | 44 | 59 | 84 | 111 |
| Total width | B _N [mm] | | | | | B _N = B + l _N | | |

In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

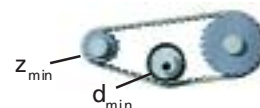
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø60 mm
 running on the back of the belt Ø80 mm

Drive type

without contraflexure



with contraflexure



| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V [mm] | d _{max} [mm] |
|-----|------------------------|------------------------|------------------------|--|--------------------------------|--------------------------|
| *14 | 55,23 | 56,60 | 60 | 40x10 | 12H7 | 42 |
| 15 | 59,27 | 60,64 | 66 | 46x10 | 15H7 | 46 |
| 16 | 63,31 | 64,68 | 71 | 46x10 | 15H7 | 51 |
| 17 | 67,35 | 68,72 | 74 | 54x10 | 15H7 | 54 |
| 18 | 71,39 | 72,77 | 76 | 54x10 | 15H7 | 56 |
| 19 | 75,44 | 76,81 | 82 | 58x10 | 15H7 | 62 |

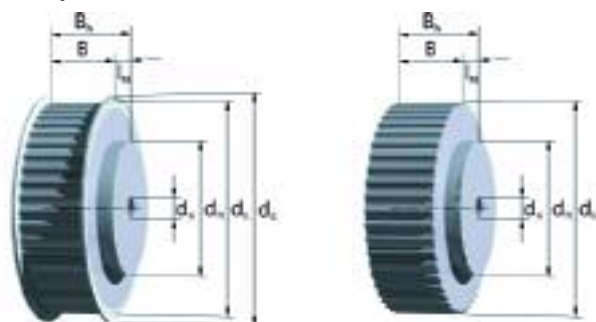
| z | d _k [mm] | d ₀ [mm] | d _B [mm] | Hub d _N x l _N [mm] | Bore d _V [mm] | d _{max} [mm] |
|------|------------------------|------------------------|------------------------|--|--------------------------------|--------------------------|
| **20 | 79,48 | 80,85 | 86 | 62x10 | 15H7 | 66 |
| 21 | 83,52 | 84,89 | 90 | 67x10 | 15H7 | 70 |
| 22 | 87,56 | 88,94 | 93 | 70x10 | 15H7 | 73 |
| 23 | 91,61 | 92,98 | 96 | 75x10 | 15H7 | 80 |
| 24 | 95,65 | 97,02 | 100 | 75x10 | 15H7 | 80 |
| 25 | 99,69 | 101,06 | 106 | 55x8 | 15H7 | 86 |
| 26 | 103,73 | 105,11 | 110 | 55x8 | 15H7 | 90 |
| 27 | 107,78 | 109,15 | 115 | 60x8 | 15H7 | 91 |
| 28 | 111,82 | 113,19 | 118 | 60x8 | 15H7 | 94 |
| 29 | 115,86 | 117,23 | 123 | 60x8 | 15H7 | 99 |
| 30 | 119,90 | 121,28 | 127 | 70x8 | 15H7 | 101 |
| 31 | 123,95 | 125,32 | 131 | 70x8 | 20H7 | 107 |
| 32 | 127,99 | 129,36 | 134 | 70x8 | 20H7 | 110 |
| 33 | 132,03 | 133,40 | 137 | 80x8 | 20H7 | 113 |
| 34 | 136,08 | 137,45 | 142 | 80x8 | 20H7 | 118 |

H
(T1/2")

| z | Hub | | | Bore | | z | Hub | | | Bore | | | |
|----|---------------|---------------|---------------|--------------------------|----------------------------|-----|---------------|---------------|---------------|--------------------------|----------------------------|------|-----|
| | d_K [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V d_{max} [mm] | | d_K [mm] | d_0 [mm] | d_B [mm] | $d_N \times l_N$ [mm] | d_V d_{max} [mm] | | |
| 35 | 140,12 | 141,49 | 147 | 80x8 | 20H7 | 123 | 75 | 301,82 | 303,19 | 310 | 80x11 | 20H7 | 272 |
| 36 | 144,16 | 145,53 | 150 | 80x8 | 20H7 | 126 | 76 | 305,86 | 307,23 | 312 | 80x11 | 20H7 | 275 |
| 37 | 148,20 | 149,57 | 153 | 80x8 | 20H7 | 129 | 77 | 309,90 | 311,28 | 315 | 80x11 | 20H7 | 279 |
| 38 | 152,25 | 153,62 | 158 | 80x8 | 20H7 | 134 | 78 | 313,95 | 315,32 | 319 | 80x11 | 20H7 | 282 |
| 39 | 156,29 | 157,66 | 163 | 80x8 | 20H7 | 139 | 79 | 317,99 | 319,36 | 325 | 80x11 | 20H7 | 288 |
| 40 | 160,33 | 161,70 | 166 | 80x8 | 20H7 | 142 | 80 | 322,03 | 323,40 | 329 | 80x11 | 20H7 | 291 |
| 41 | 164,37 | 165,74 | 171 | 80x8 | 20H7 | 147 | 81 | 326,07 | 327,45 | 332 | 80x11 | 20H7 | 295 |
| 42 | 168,42 | 169,79 | 174 | 80x8 | 20H7 | 150 | 82 | 330,12 | 331,49 | 338 | 80x11 | 20H7 | 301 |
| 43 | 172,46 | 173,83 | 179 | 80x8 | 20H7 | 155 | 83 | 334,16 | 335,53 | 341 | 80x11 | 20H7 | 304 |
| 44 | 176,50 | 177,87 | 182 | 80x8 | 20H7 | 158 | 84 | 338,20 | 339,57 | 344 | 80x11 | 20H7 | 307 |
| 45 | 180,54 | 181,91 | 188 | 80x8 | 20H7 | 162 | 85 | 342,24 | 343,62 | 348 | 80x11 | 20H7 | 310 |
| 46 | 184,59 | 185,96 | 191 | 80x8 | 20H7 | 167 | 86 | 346,29 | 347,66 | 351 | 80x11 | 20H7 | 314 |
| 47 | 188,63 | 190,00 | 195 | 80x8 | 20H7 | 171 | 87 | 350,33 | 351,70 | 357 | 80x11 | 20H7 | 320 |
| 48 | 192,67 | 194,04 | 198 | 80x8 | 20H7 | 174 | 88 | 354,37 | 355,74 | 360 | 80x11 | 20H7 | 323 |
| 49 | 196,71 | 198,08 | 204 | 80x11 | 20H7 | 180 | 89 | 358,41 | 359,79 | 363 | 80x11 | 20H7 | 326 |
| 50 | 200,76 | 202,13 | 207 | 80x11 | 20H7 | 183 | 90 | 362,46 | 363,83 | 370 | 80x11 | 20H7 | 331 |
| 51 | 204,80 | 206,17 | 210 | 80x11 | 20H7 | 186 | 91 | 366,50 | 367,87 | 372 | 80x11 | 20H7 | 332 |
| 52 | 208,84 | 210,21 | 216 | 80x11 | 20H7 | 176 | 92 | 370,54 | 371,91 | 377 | 80x11 | 20H7 | 337 |
| 53 | 212,88 | 214,25 | 220 | 80x11 | 20H7 | 196 | 93 | 374,58 | 375,96 | 382 | 80x11 | 20H7 | 342 |
| 54 | 216,93 | 218,30 | 223 | 80x11 | 20H7 | 199 | 94 | 378,63 | 380,00 | 386 | 80x11 | 20H7 | 346 |
| 55 | 220,97 | 222,34 | 226 | 80x11 | 20H7 | 202 | 95 | 382,67 | 384,04 | 391 | 80x11 | 20H7 | 351 |
| 56 | 225,01 | 226,38 | 230 | 80x11 | 20H7 | 206 | 96 | 386,71 | 388,08 | 396 | 80x11 | 20H7 | 356 |
| 57 | 229,05 | 230,42 | 236 | 80x11 | 20H7 | 212 | 97 | 390,76 | 392,13 | 396 | 90x16 | 24H7 | 356 |
| 58 | 233,10 | 234,47 | 239 | 80x11 | 20H7 | 215 | 98 | 394,80 | 396,17 | 401 | 90x16 | 24H7 | 361 |
| 59 | 237,14 | 238,51 | 242 | 80x11 | 20H7 | 218 | 99 | 398,84 | 400,21 | 405 | 90x16 | 24H7 | 365 |
| 60 | 241,18 | 242,55 | 248 | 80x11 | 20H7 | 222 | 100 | 402,88 | 404,25 | 410 | 90x16 | 24H7 | 370 |
| 61 | 245,22 | 246,59 | 252 | 80x11 | 20H7 | 228 | 101 | 406,93 | 408,30 | 413 | 90x16 | 24H7 | 375 |
| 62 | 249,27 | 250,64 | 255 | 80x11 | 20H7 | 231 | 102 | 410,97 | 412,34 | 415 | 90x16 | 24H7 | 375 |
| 63 | 253,31 | 254,68 | 258 | 80x11 | 20H7 | 234 | 103 | 415,01 | 416,38 | 422 | 90x16 | 24H7 | 385 |
| 64 | 257,35 | 258,72 | 265 | 80x11 | 20H7 | 241 | 104 | 419,05 | 420,42 | 428 | 90x16 | 24H7 | 389 |
| 65 | 261,39 | 262,76 | 268 | 80x11 | 20H7 | 244 | 105 | 423,10 | 424,47 | 430 | 90x16 | 24H7 | 389 |
| 66 | 265,44 | 266,81 | 274 | 80x11 | 20H7 | 244 | 106 | 427,14 | 428,51 | 433 | 90x16 | 24H7 | 392 |
| 67 | 269,48 | 270,85 | 277 | 80x11 | 20H7 | 247 | 107 | 431,18 | 432,55 | 437 | 90x16 | 24H7 | 395 |
| 68 | 273,52 | 274,89 | 280 | 80x11 | 20H7 | 250 | 108 | 435,22 | 436,59 | 441 | 90x16 | 24H7 | 398 |
| 69 | 277,56 | 278,93 | 284 | 80x11 | 20H7 | 260 | 109 | 439,27 | 440,64 | 445 | 90x16 | 24H7 | 401 |
| 70 | 281,61 | 282,98 | 287 | 80x11 | 20H7 | 269 | 110 | 443,31 | 444,68 | 449 | 90x16 | 24H7 | 404 |
| 71 | 285,65 | 287,02 | 290 | 80x11 | 20H7 | 253 | 111 | 447,35 | 448,72 | 453 | 90x16 | 24H7 | 407 |
| 72 | 289,69 | 291,06 | 296 | 80x11 | 20H7 | 259 | 112 | 451,39 | 452,76 | 457 | 90x16 | 24H7 | 410 |
| 73 | 293,73 | 295,11 | 302 | 80x11 | 20H7 | 266 | 113 | 455,44 | 456,81 | 461 | 90x16 | 24H7 | 413 |
| 74 | 297,78 | 299,15 | 306 | 80x11 | 20H7 | 269 | 114 | 459,48 | 460,85 | 465 | 90x16 | 24H7 | 416 |

Synchronising pulleys, imperial profile

XH (T7/8")



Order example:

Pulley AL 18 XH 200
 Material ————
 No. of teeth ————
 Type / Pitch ————
 Width code ————

Further ordering information on page 236 and following.

Material:

AlCuMgPb

| | | | | |
|---------------|---------------------|-------------------------------------|------|-------|
| Imperial code | | 200 | 300 | 400 |
| Belt width | b [mm] | 50,8 | 76,2 | 101,6 |
| Pulley width | B [mm] | 59 | 84 | 111 |
| Total width | B _N [mm] | B _N = B + l _N | | |

In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d₀ = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_V = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges

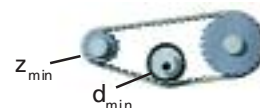
* Minimum number of teeth without contraflexure

** Minimum number of teeth with contraflexure BRECOFLEX z_{min} = 20)

d_{min} = Minimum diameter of the tension roller (smooth) running on teeth Ø150 mm running on the back of the belt Ø180mm

Drive type

without contraflexure



with contraflexure



| z | Hub | | | Bore | | |
|------|---------------------|---------------------|---------------------|--------------------------------------|---------------------|-----------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] |
| *18 | 124,55 | 127,34 | 135 | 85x18 | 20H7 | 95 |
| 19 | 131,62 | 134,41 | 140 | 95x18 | 20H7 | 102 |
| **20 | 138,69 | 141,49 | 147 | 95x18 | 20H7 | 109 |
| 21 | 145,77 | 148,56 | 154 | 110x18 | 20H7 | 116 |
| 22 | 152,84 | 155,64 | 163 | 110x18 | 20H7 | 123 |
| 23 | 159,92 | 162,71 | 170 | 125x18 | 20H7 | 130 |
| 24 | 166,99 | 169,79 | 177 | 125x18 | 25H7 | 137 |
| **25 | 174,07 | 176,86 | 184 | 140x18 | 25H7 | 144 |
| 26 | 181,14 | 183,94 | 192 | 140x18 | 25H7 | 151 |
| 27 | 188,22 | 191,01 | 198 | 120x18 | 25H7 | 158 |
| 28 | 195,29 | 198,08 | 205 | 120x18 | 25H7 | 168 |
| 29 | 202,37 | 205,16 | 211 | 120x18 | 25H7 | 172 |

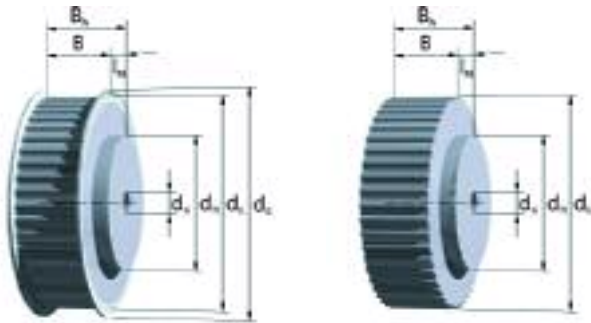
| z | Hub | | | Bore | | |
|----|---------------------|---------------------|---------------------|--------------------------------------|---------------------|-----------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V [mm] | d _{max} [mm] |
| 30 | 209,44 | 212,23 | 220 | 120x18 | 25H7 | 179 |
| 31 | 216,52 | 219,31 | 227 | 130x18 | 25H7 | 187 |
| 32 | 223,59 | 226,38 | 234 | 130x18 | 25H7 | 194 |
| 33 | 230,67 | 233,46 | 240 | 140x18 | 25H7 | 201 |
| 34 | 237,74 | 240,53 | 248 | 140x18 | 25H7 | 208 |
| 35 | 244,81 | 247,61 | 256 | 140x18 | 25H7 | 215 |
| 36 | 251,89 | 254,68 | 262 | 140x18 | 25H7 | 222 |
| 37 | 258,96 | 261,75 | 268 | 140x18 | 25H7 | 229 |
| 38 | 266,04 | 268,83 | 275 | 140x18 | 25H7 | 236 |
| 39 | 273,11 | 275,90 | 283 | 140x18 | 25H7 | 243 |
| 40 | 280,18 | 282,98 | 290 | 140x18 | 25H7 | 250 |
| 41 | 287,26 | 290,05 | 297 | 150x15 | 30H7 | 257 |
| 42 | 294,34 | 297,13 | 304 | 150x15 | 30H7 | 264 |
| 43 | 301,41 | 304,20 | 311 | 150x15 | 30H7 | 271 |
| 44 | 308,48 | 311,28 | 319 | 150x15 | 30H7 | 278 |

XH
(T7/8")

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _k [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 45 | 315,56 | 318,35 | 326 | 150x15 | 30H7 | 286 | 80 | 563,16 | 565,95 | 574 | 160x15 | 40H7 | 533 |
| 46 | 322,63 | 325,42 | 332 | 150x15 | 30H7 | 293 | 81 | 570,24 | 573,03 | 580 | 160x15 | 40H7 | 540 |
| 47 | 329,71 | 332,50 | 338 | 150x15 | 30H7 | 300 | 82 | 577,31 | 580,10 | 587 | 160x15 | 40H7 | 547 |
| 48 | 336,78 | 339,57 | 345 | 150x15 | 30H7 | 307 | 83 | 584,39 | 587,18 | 593 | 160x15 | 40H7 | 554 |
| 49 | 343,86 | 346,35 | 354 | 150x15 | 30H7 | 314 | 84 | 591,46 | 594,25 | 602 | 160x15 | 40H7 | 561 |
| 50 | 350,93 | 353,72 | 360 | 150x15 | 30H7 | 321 | 85 | 598,54 | 601,33 | 608 | 160x15 | 40H7 | 569 |
| 51 | 358,01 | 360,80 | 368 | 150x15 | 30H7 | 328 | 86 | 605,61 | 608,40 | 616 | 160x15 | 40H7 | 576 |
| 52 | 365,08 | 367,87 | 376 | 150x15 | 30H7 | 335 | 87 | 612,68 | 615,48 | 622 | 160x15 | 40H7 | 583 |
| 53 | 372,15 | 374,95 | 383 | 150x15 | 30H7 | 342 | 88 | 619,76 | 622,55 | 630 | 160x15 | 40H7 | 590 |
| 54 | 379,23 | 382,02 | 389 | 150x15 | 30H7 | 349 | 89 | 626,83 | 629,62 | 637 | 160x15 | 40H7 | 597 |
| 55 | 386,30 | 389,09 | 396 | 150x15 | 30H7 | 356 | 90 | 633,91 | 636,70 | 644 | 160x15 | 40H7 | 604 |
| 56 | 393,38 | 396,17 | 402 | 150x15 | 30H7 | 363 | 91 | 640,98 | 643,77 | 650 | 160x15 | 40H7 | 611 |
| 57 | 400,45 | 403,24 | 410 | 150x15 | 30H7 | 370 | 92 | 648,06 | 650,85 | 657 | 160x15 | 40H7 | 618 |
| 58 | 407,53 | 410,32 | 417 | 150x15 | 30H7 | 378 | 93 | 655,13 | 657,92 | 664 | 160x15 | 40H7 | 625 |
| 59 | 414,60 | 417,39 | 424 | 150x15 | 30H7 | 385 | 94 | 662,21 | 665,00 | 671 | 160x15 | 40H7 | 632 |
| 60 | 421,67 | 424,47 | 432 | 150x15 | 30H7 | 392 | 95 | 669,27 | 672,07 | 678 | 160x15 | 40H7 | 639 |
| 61 | 428,75 | 431,54 | 438 | 150x15 | 40H7 | 399 | 96 | 676,35 | 679,15 | 685 | 160x15 | 40H7 | 646 |
| 62 | 435,82 | 438,62 | 446 | 150x15 | 40H7 | 406 | 97 | 683,44 | 686,22 | 692 | 160x15 | 40H7 | 653 |
| 63 | 442,90 | 445,69 | 453 | 150x15 | 40H7 | 413 | 98 | 690,50 | 693,29 | 699 | 160x15 | 40H7 | 660 |
| 64 | 449,97 | 452,76 | 459 | 150x15 | 40H7 | 420 | 99 | 697,59 | 700,37 | 706 | 160x15 | 40H7 | 668 |
| 65 | 457,05 | 459,84 | 466 | 150x15 | 40H7 | 427 | 100 | 704,65 | 707,44 | 713 | 160x15 | 40H7 | 675 |
| 66 | 464,12 | 466,91 | 474 | 150x15 | 40H7 | 434 | 101 | 711,74 | 714,52 | 720 | 160x15 | 40H7 | 682 |
| 67 | 471,20 | 473,99 | 481 | 150x15 | 40H7 | 441 | 102 | 718,80 | 721,59 | 727 | 160x15 | 40H7 | 689 |
| 68 | 478,27 | 481,06 | 488 | 150x15 | 40H7 | 448 | 103 | 725,88 | 728,67 | 734 | 160x15 | 40H7 | 696 |
| 69 | 485,35 | 488,14 | 495 | 150x15 | 40H7 | 455 | 104 | 732,95 | 735,74 | 741 | 160x15 | 40H7 | 703 |
| 70 | 492,42 | 495,21 | 502 | 150x15 | 40H7 | 462 | 105 | 740,03 | 742,82 | 748 | 160x15 | 40H7 | 710 |
| 71 | 499,49 | 502,29 | 510 | 150x15 | 40H7 | 469 | 106 | 747,09 | 749,89 | 755 | 160x15 | 40H7 | 717 |
| 72 | 506,57 | 509,36 | 517 | 150x15 | 40H7 | 477 | 107 | 754,18 | 756,96 | 762 | 160x15 | 40H7 | 724 |
| 73 | 513,64 | 516,43 | 523 | 160x15 | 40H7 | 484 | 108 | 761,24 | 764,04 | 769 | 160x15 | 40H7 | 731 |
| 74 | 520,72 | 523,51 | 529 | 160x15 | 40H7 | 491 | 109 | 768,33 | 771,11 | 776 | 160x15 | 40H7 | 738 |
| 75 | 527,79 | 530,58 | 536 | 160x15 | 40H7 | 498 | 110 | 775,39 | 778,19 | 783 | 160x15 | 40H7 | 745 |
| 76 | 534,87 | 537,66 | 545 | 160x15 | 40H7 | 505 | 111 | 782,48 | 785,26 | 790 | 160x15 | 40H7 | 752 |
| 77 | 541,94 | 544,73 | 552 | 160x15 | 40H7 | 512 | 112 | 789,54 | 792,34 | 797 | 160x15 | 40H7 | 760 |
| 78 | 549,01 | 551,81 | 560 | 160x15 | 40H7 | 519 | 113 | 796,62 | 799,41 | 804 | 160x15 | 40H7 | 767 |
| 79 | 556,09 | 558,88 | 567 | 160x15 | 40H7 | 526 | 114 | 803,68 | 806,49 | 811 | 160x15 | 40H7 | 774 |

Synchronising pulleys, special profile

K 1.5



Stock pulleys over $z=32$ with flanges

Stock pulleys up to $z=24$ without flanges

| | | | | |
|--------------|------------|----|----|----|
| Belt width | b [mm] | 4 | 6 | 10 |
| Pulley width | B [mm] | 8 | 10 | 14 |
| Total width | B_N [mm] | 14 | 16 | 20 |

The stock pulleys with standard dimensioning are marked in blue

In-between widths and larger widths as well as other hub dimensions are available

- z = number of teeth
- d_0 = pitch circle diameter
- d_k = crown diameter
- d_B = flange diameter
- d_v = diameter of pre-bore
- d_{max} = max. bore diameter without feather key groove for synchronising pulleys with flanges
- * Minimum number of teeth without contraflexure
- ** Minimum number of teeth with contraflexure
- d_{min} = Minimum diameter of the tension roller (smooth) running on teeth $\varnothing 15$ mm running on the back of the belt $\varnothing 15$ mm

Order example:

Pulley AL 16 K 1,5 / 48 - 0 Nabe 14x6
 Material _____
 Width B_N _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____
 Hub dimension $d_N \times l_N$ _____

Further ordering information on page 236 and following.

Material:
AlCuMgPb

Drive type

without contraflexure



with contraflexure



| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub | | Bore | |
|------|---------------|---------------|---------------|--------------------------|---------------|-------------------|-------------------|
| | | | | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] | d_{max} [mm] |
| **20 | 9,08 | 9,55 | - | - | 3H7 | 3,5 | |
| 21 | 9,56 | 10,03 | - | - | 3H7 | 3,5 | |
| 22 | 10,03 | 10,50 | - | - | 3H7 | 3,5 | |
| 23 | 10,51 | 10,98 | - | - | 3H7 | 4 | |
| 24 | 10,99 | 11,46 | - | - | 3H7 | 4 | |

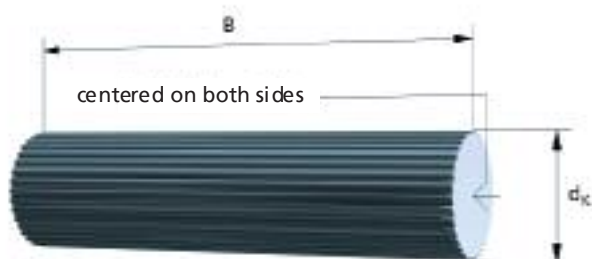
| z | d_k [mm] | d_0 [mm] | d_B [mm] | Hub | | Bore | |
|----|---------------|---------------|---------------|--------------------------|---------------|-------------------|-------------------|
| | | | | $d_N \times l_N$ [mm] | d_v [mm] | d_{max} [mm] | d_{max} [mm] |
| 25 | 11,47 | 11,94 | - | - | 3H7 | 5 | |
| 26 | 11,94 | 12,41 | - | - | 3H7 | 5 | |
| 27 | 12,42 | 12,89 | - | - | 3H7 | 5 | |
| 28 | 12,90 | 13,37 | - | - | 3H7 | 6 | |
| 29 | 13,38 | 13,85 | - | - | 3H7 | 6 | |
| 30 | 13,85 | 14,32 | - | - | 3H7 | 6 | |
| 31 | 14,33 | 14,80 | - | - | 3H7 | 8 | |
| 32 | 14,81 | 15,28 | 18 | 10x6 | 3H7 | 8 | |
| 33 | 15,29 | 15,76 | 19 | 10x6 | 4H7 | 8 | |
| 34 | 15,76 | 16,23 | 19 | 10x6 | 4H7 | 9 | |

K 1,5

| z | Hub | | | Bore | | | z | Hub | | | Bore | | |
|----|------------------------|------------------------|------------------------|---|----------------|--------------------------|-----|------------------------|------------------------|------------------------|---|----------------|--------------------------|
| | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] | | d _K [mm] | d ₀ [mm] | d _B [mm] | d _N x l _N [mm] | d _V | d _{max} [mm] |
| 35 | 16,24 | 16,71 | 19 | 10x6 | 4H7 | 9 | 75 | 35,34 | 35,81 | 40 | 20x6 | 5H7 | 24 |
| 36 | 16,72 | 17,19 | 20 | 10x6 | 4H7 | 10 | 76 | 35,82 | 36,29 | 42 | 20x6 | 5H7 | 26 |
| 37 | 17,20 | 17,67 | 20 | 10x6 | 4H7 | 10 | 77 | 36,29 | 36,76 | 42 | 20x6 | 5H7 | 26 |
| 38 | 17,67 | 18,14 | 20 | 10x6 | 4H7 | 10 | 78 | 36,77 | 37,24 | 42 | 20x6 | 5H7 | 26 |
| 39 | 18,15 | 18,62 | 22 | 10x6 | 4H7 | 11 | 79 | 37,25 | 37,72 | 42 | 20x6 | 5H7 | 26 |
| 40 | 18,63 | 19,10 | 22 | 12x6 | 4H7 | 12 | 80 | 37,73 | 38,20 | 42 | 20x6 | 5H7 | 26 |
| 41 | 19,11 | 19,58 | 22 | 12x6 | 4H7 | 12 | 81 | 38,20 | 38,67 | 42 | 20x6 | 5H7 | 26 |
| 42 | 19,58 | 20,05 | 22 | 12x6 | 4H7 | 12 | 82 | 38,68 | 39,15 | 42 | 20x6 | 5H7 | 26 |
| 43 | 20,06 | 20,53 | 24 | 12x6 | 4H7 | 13 | 83 | 39,16 | 39,63 | 45 | 20x6 | 5H7 | 28 |
| 44 | 20,54 | 21,01 | 24 | 12x6 | 4H7 | 13 | 84 | 39,64 | 40,11 | 45 | 20x6 | 5H7 | 28 |
| 45 | 21,02 | 21,49 | 24 | 12x6 | 4H7 | 13 | 85 | 40,11 | 40,58 | 45 | 20x6 | 5H7 | 28 |
| 46 | 21,49 | 21,96 | 24 | 12x6 | 4H7 | 13 | 86 | 40,59 | 41,06 | 45 | 20x6 | 5H7 | 28 |
| 47 | 21,97 | 22,44 | 25 | 12x6 | 4H7 | 14 | 87 | 41,07 | 41,54 | 45 | 20x6 | 5H7 | 28 |
| 48 | 22,45 | 22,92 | 26 | 14x6 | 4H7 | 14 | 88 | 41,55 | 42,02 | 47 | 20x6 | 5H7 | 33 |
| 49 | 22,93 | 23,40 | 26 | 14x6 | 4H7 | 14 | 89 | 42,02 | 42,49 | 47 | 20x6 | 5H7 | 33 |
| 50 | 23,40 | 23,87 | 28 | 14x6 | 4H7 | 14 | 90 | 42,50 | 42,97 | 47 | 24x6 | 5H7 | 33 |
| 51 | 23,88 | 24,35 | 28 | 14x6 | 4H7 | 16 | 91 | 42,98 | 43,45 | 47 | 24x6 | 5H7 | 33 |
| 52 | 24,36 | 24,83 | 28 | 14x6 | 4H7 | 16 | 92 | 43,46 | 43,93 | 47 | 24x6 | 5H7 | 33 |
| 53 | 24,84 | 25,31 | 28 | 14x6 | 4H7 | 16 | 93 | 43,93 | 44,40 | 47 | 24x6 | 5H7 | 33 |
| 54 | 25,31 | 25,78 | 28 | 14x6 | 4H7 | 16 | 94 | 44,41 | 44,88 | 50 | 24x6 | 5H7 | 36 |
| 55 | 25,79 | 26,26 | 30 | 14x6 | 4H7 | 18 | 95 | 44,89 | 45,36 | 50 | 24x6 | 5H7 | 36 |
| 56 | 26,27 | 26,74 | 30 | 14x6 | 4H7 | 18 | 96 | 45,37 | 45,84 | 50 | 24x6 | 5H7 | 36 |
| 57 | 26,75 | 27,22 | 30 | 14x6 | 4H7 | 18 | 97 | 45,84 | 46,31 | 50 | 24x6 | 5H7 | 36 |
| 58 | 27,22 | 27,69 | 32 | 14x6 | 4H7 | 18 | 98 | 46,32 | 46,79 | 50 | 24x6 | 5H7 | 36 |
| 59 | 27,70 | 28,17 | 32 | 14x6 | 4H7 | 18 | 99 | 46,80 | 47,27 | 50 | 24x6 | 5H7 | 36 |
| 60 | 28,18 | 28,65 | 32 | 14x6 | 4H7 | 18 | 100 | 47,28 | 47,75 | 53 | 30x6 | 6H7 | 36 |
| 61 | 28,66 | 29,13 | 32 | 14x6 | 4H7 | 18 | 101 | 47,75 | 48,22 | 53 | 30x6 | 6H7 | 36 |
| 62 | 29,13 | 29,60 | 32 | 14x6 | 4H7 | 18 | 102 | 48,23 | 48,70 | 53 | 30x6 | 6H7 | 36 |
| 63 | 29,61 | 30,08 | 35 | 14x6 | 4H7 | 18 | 103 | 48,71 | 49,18 | 53 | 30x6 | 6H7 | 36 |
| 64 | 30,09 | 30,56 | 35 | 14x6 | 4H7 | 21 | 104 | 49,19 | 49,66 | 53 | 30x6 | 6H7 | 41 |
| 65 | 30,57 | 31,04 | 35 | 16x6 | 4H7 | 21 | 105 | 49,66 | 50,13 | 55 | 30x6 | 6H7 | 41 |
| 66 | 31,04 | 31,51 | 35 | 16x6 | 4H7 | 21 | 106 | 50,14 | 50,61 | 55 | 30x6 | 6H7 | 41 |
| 67 | 31,52 | 31,99 | 35 | 16x6 | 4H7 | 21 | 107 | 50,62 | 51,09 | 55 | 30x6 | 6H7 | 41 |
| 68 | 32,00 | 32,47 | 36 | 16x6 | 4H7 | 21 | 108 | 51,10 | 51,57 | 55 | 30x6 | 6H7 | 41 |
| 69 | 32,48 | 32,95 | 36 | 16x6 | 4H7 | 21 | 109 | 51,57 | 52,04 | 56 | 30x6 | 6H7 | 41 |
| 70 | 32,95 | 33,42 | 36 | 16x6 | 5H7 | 21 | 110 | 52,05 | 52,52 | 56 | 30x6 | 6H7 | 42 |
| 71 | 33,43 | 33,90 | 36 | 16x6 | 5H7 | 21 | 111 | 52,53 | 53,00 | 56 | 30x6 | 6H7 | 42 |
| 72 | 33,91 | 34,38 | 36 | 16x6 | 5H7 | 24 | 112 | 53,01 | 53,48 | 58 | 30x6 | 6H7 | 44 |
| 73 | 34,38 | 34,85 | 40 | 16x6 | 5H7 | 24 | 113 | 53,48 | 53,95 | 58 | 30x6 | 6H7 | 44 |
| 74 | 34,86 | 35,33 | 40 | 16x6 | 5H7 | 24 | 114 | 53,96 | 54,43 | 58 | 30x6 | 6H7 | 44 |

Synchronising shafts

AT profile (AT 3, AT 5)



Order example:

Material AL
 Width 180
 Type / Pitch AT5 - SE / 48
 Toothform variant _____
 No. of teeth _____

Material:
 AlCuMgPb

Order example flanges:

Flange BR 60 x 48 x 1
 Outside diameter d_B _____
 Inside diameter d_i _____
 Thickness s _____

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (backlash free) (ordering addition: -0)

z = number of teeth
 B = width [mm]
 d_k = crown diameter
 d_0 = pitch circle diameter
 d_B = flange diameter
 d_i = inner flange diameter
 s = flange thickness

Pitch and widths [mm]

| AT 3 | | | | | | |
|------|-----|-------|-------|-------|-------|-----|
| z | B | d_k | d_0 | d_B | d_i | s |
| 15 | 180 | 13,91 | 14,32 | 19 | 11 | 1 |
| 16 | 180 | 14,87 | 15,28 | 20 | 12 | 1 |
| 17 | 180 | 15,82 | 16,23 | 21 | 13 | 1 |
| 18 | 180 | 16,78 | 17,19 | 23 | 14 | 1 |
| 19 | 180 | 17,73 | 18,14 | 23 | 14 | 1 |
| 20 | 180 | 18,69 | 19,10 | 24 | 14 | 1 |
| 21 | 180 | 19,64 | 20,05 | 25 | 15 | 1 |
| 22 | 180 | 20,60 | 21,01 | 27 | 17 | 1 |
| 23 | 180 | 21,55 | 21,96 | 27 | 17 | 1 |
| 24 | 180 | 22,51 | 22,92 | 28 | 18 | 1 |
| 25 | 180 | 23,46 | 23,87 | 30 | 20 | 1 |
| 26 | 180 | 24,42 | 24,83 | 30 | 20 | 1 |
| 27 | 180 | 25,37 | 25,78 | 30 | 20 | 1 |
| 28 | 180 | 26,33 | 26,74 | 31 | 21 | 1 |
| 29 | 180 | 27,28 | 27,69 | 32 | 22 | 1 |
| 30 | 180 | 28,24 | 28,65 | 33 | 23 | 1 |
| 31 | 180 | 29,19 | 29,60 | 34 | 24 | 1 |
| 32 | 180 | 30,15 | 30,56 | 36 | 25 | 1 |
| 33 | 180 | 31,10 | 31,51 | 36 | 25 | 1 |
| 34 | 180 | 32,06 | 32,47 | 37 | 27 | 1 |

| AT 5 | | | | | | |
|----------------------|-----|-------|-------|-------|-------|-----|
| AT 5 (backlash free) | | | | | | |
| z | B | d_k | d_0 | d_B | d_i | s |
| 15 | 150 | 22,65 | 23,87 | 28 | 18 | 1 |
| 16 | 150 | 24,24 | 25,46 | 30 | 20 | 1 |
| 17 | 150 | 25,84 | 27,06 | 31 | 21 | 1 |
| 18 | 150 | 27,43 | 28,65 | 34 | 24 | 1 |
| 19 | 150 | 29,02 | 30,24 | 34 | 24 | 1 |
| 20 | 180 | 30,61 | 31,83 | 36 | 26 | 1 |
| 21 | 180 | 32,20 | 33,42 | 37 | 27 | 1 |
| 22 | 180 | 33,79 | 35,01 | 39 | 29 | 1 |
| 23 | 180 | 35,39 | 36,61 | 40 | 29 | 1 |
| 24 | 180 | 36,98 | 38,20 | 43 | 31 | 1 |
| 25 | 180 | 38,57 | 39,79 | 43 | 31 | 1 |
| 26 | 180 | 40,16 | 41,38 | 45 | 33 | 1 |
| 27 | 180 | 41,75 | 42,97 | 47 | 35 | 1 |
| 28 | 180 | 43,34 | 44,56 | 48 | 34 | 1 |
| 29 | 180 | 44,93 | 46,15 | 50 | 36 | 1 |
| 30 | 180 | 46,53 | 47,75 | 51 | 39 | 1 |
| 31 | 180 | 48,12 | 49,35 | 53 | 41 | 1 |
| 32 | 180 | 49,71 | 50,93 | 55 | 43 | 1 |
| 33 | 180 | 51,30 | 52,52 | 56 | 44 | 1 |
| 34 | 180 | 52,89 | 54,11 | 58 | 46 | 1 |

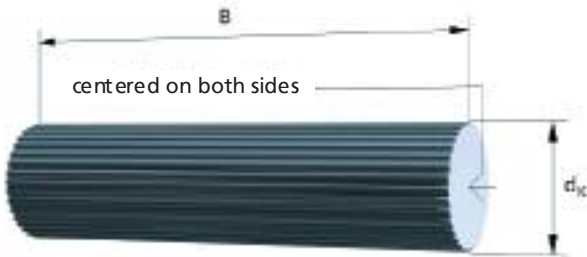
AT profile (AT 3, AT 5)

Pitch and lengths [mm]

| AT 3 | | | | | | | AT 5 AT 5 (backlash free) | | | | | | |
|------|-----|----------------|----------------|----------------|----------------|---|------------------------------|-----|----------------|----------------|----------------|----------------|-----|
| z | B | d _k | d _o | d _b | d _i | s | z | B | d _k | d _o | d _b | d _i | s |
| 35 | 180 | 33,01 | 33,42 | 39 | 29 | 1 | 35 | 180 | 54,48 | 55,70 | 60 | 48 | 1 |
| 36 | 180 | 33,97 | 34,38 | 40 | 29 | 1 | 36 | 180 | 56,08 | 57,30 | 61 | 49 | 1 |
| 37 | 180 | 34,92 | 35,33 | 40 | 29 | 1 | 37 | 180 | 57,67 | 58,89 | 62 | 50 | 1 |
| 38 | 180 | 35,88 | 36,29 | 42 | 30 | 1 | 38 | 180 | 59,26 | 60,48 | 64 | 52 | 1 |
| 39 | 180 | 36,83 | 37,24 | 42 | 30 | 1 | 39 | 180 | 60,85 | 62,07 | 66 | 52 | 1 |
| 40 | 180 | 37,79 | 38,20 | 43 | 31 | 1 | 40 | 180 | 62,44 | 63,66 | 67 | 55 | 1 |
| 41 | 180 | 38,74 | 39,15 | 45 | 33 | 1 | 41 | 180 | 64,03 | 65,25 | 70 | 56 | 1 |
| 42 | 180 | 39,70 | 40,11 | 45 | 33 | 1 | 42 | 180 | 65,63 | 66,85 | 70 | 56 | 1 |
| 43 | 180 | 40,65 | 41,06 | 47 | 34 | 1 | 43 | 180 | 67,22 | 68,44 | 72 | 58 | 1 |
| 44 | 180 | 41,61 | 42,02 | 47 | 34 | 1 | 44 | 180 | 68,81 | 70,03 | 74 | 60 | 1 |
| 45 | 180 | 42,56 | 42,97 | 48 | 34 | 1 | 45 | 180 | 70,40 | 71,62 | 75 | 61 | 1 |
| 46 | 180 | 43,52 | 43,93 | 50 | 36 | 1 | 46 | 180 | 71,99 | 73,21 | 78 | 64 | 1 |
| 47 | 180 | 44,47 | 44,88 | 50 | 36 | 1 | 47 | 180 | 73,58 | 74,80 | 78 | 64 | 1 |
| 48 | 180 | 45,43 | 45,84 | 51 | 39 | 1 | 48 | 180 | 75,15 | 76,39 | 80 | 66 | 1 |
| 49 | 180 | 46,38 | 46,79 | 51 | 39 | 1 | 49 | 180 | 76,77 | 77,99 | 82 | 68 | 1 |
| 50 | 180 | 47,34 | 47,75 | 53 | 41 | 1 | 50 | 180 | 78,36 | 79,58 | 84 | 70 | 1 |
| 51 | 180 | 48,29 | 48,70 | 53 | 41 | 1 | 51 | 180 | 79,95 | 81,17 | 86 | 72 | 1 |
| 52 | 180 | 49,25 | 49,66 | 55 | 43 | 1 | 52 | 180 | 81,54 | 82,76 | 86 | 72 | 1 |
| 53 | 180 | 50,20 | 50,61 | 55 | 43 | 1 | 53 | 180 | 83,13 | 84,35 | 88 | 74 | 1 |
| 54 | 180 | 51,16 | 51,57 | 56 | 44 | 1 | 54 | 180 | 84,72 | 85,94 | 90 | 76 | 1 |
| 55 | 180 | 52,11 | 52,52 | 58 | 46 | 1 | 55 | 180 | 86,32 | 87,54 | 91 | 77 | 1 |
| 56 | 180 | 53,07 | 53,48 | 58 | 46 | 1 | 56 | 180 | 87,91 | 89,13 | 93 | 79 | 1 |
| 57 | 180 | 54,02 | 54,43 | 60 | 48 | 1 | 57 | 180 | 89,50 | 90,72 | 94 | 80 | 1 |
| 58 | 180 | 54,98 | 55,39 | 60 | 48 | 1 | 58 | 180 | 91,09 | 92,31 | 96 | 82 | 1 |
| 59 | 180 | 55,93 | 56,34 | 61 | 49 | 1 | 59 | 180 | 92,68 | 93,90 | 99 | 85 | 1 |
| 60 | 180 | 56,89 | 57,30 | 62 | 50 | 1 | 60 | 180 | 94,27 | 95,49 | 99 | 85 | 1 |
| 61 | 180 | 57,84 | 58,25 | 64 | 52 | 1 | 61 | 180 | 95,86 | 97,08 | 100 | 86 | 1 |
| 62 | 180 | 58,80 | 59,21 | 64 | 52 | 1 | 62 | 180 | 97,46 | 98,68 | 102 | 88 | 1 |
| 63 | 180 | 59,75 | 60,16 | 66 | 52 | 1 | 63 | 180 | 99,05 | 100,27 | 104 | 90 | 1 |
| 64 | 180 | 60,71 | 61,12 | 66 | 52 | 1 | 64 | 180 | 100,64 | 101,86 | 105 | 91 | 1,5 |
| 65 | 180 | 61,66 | 62,07 | 68 | 54 | 1 | 65 | 180 | 102,23 | 103,45 | 107 | 93 | 1,5 |
| 66 | 180 | 62,62 | 63,03 | 68 | 54 | 1 | 66 | 180 | 103,82 | 105,04 | 109 | 95 | 1,5 |
| 67 | 180 | 63,57 | 63,98 | 70 | 56 | 1 | 67 | 180 | 105,41 | 106,63 | 112 | 98 | 1,5 |
| 68 | 180 | 64,53 | 64,94 | 70 | 56 | 1 | 68 | 180 | 107,01 | 108,23 | 112 | 98 | 1,5 |
| 69 | 180 | 65,48 | 65,89 | 72 | 58 | 1 | 69 | 180 | 108,60 | 109,82 | 115 | 101 | 1,5 |
| 70 | 180 | 66,44 | 66,85 | 72 | 58 | 1 | 70 | 180 | 110,19 | 111,41 | 115 | 101 | 1,5 |
| 71 | 180 | 67,39 | 67,80 | 74 | 60 | 1 | 71 | 180 | 111,78 | 113,00 | 117 | 103 | 1,5 |
| 72 | 180 | 68,34 | 68,75 | 74 | 60 | 1 | 72 | 180 | 113,37 | 114,59 | 118 | 104 | 1,5 |

Synchronising shafts

AT profile (AT 10)



Order example:

Material AL 180 AT10 - SE / 48
 Width _____
 Type / Pitch _____
 Toothform variant _____
 No. of teeth _____

Material:
AlCuMgPb

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (backlash free) (ordering addition: -0)

z = number of teeth
 B = width [mm]
 d_k = crown diameter
 d_o = pitch circle diameter
 d_B = flange diameter
 d_i = inner flange diameter
 s = flange thickness

Order example flanges:

Flange BR 156 x 140 x 1,5
 Outside diameter d_B _____
 Inside diameter d_i _____
 Thickness s _____

Pitch and widths [mm]

| z | B | AT 10 | | | | |
|----|-----|-----------------------|--------|-------|-------|-----|
| | | d_k | d_o | d_B | d_i | s |
| | | AT 10 (backlash free) | | | | |
| 15 | 180 | 45,93 | 47,75 | 51 | 39 | 1 |
| 16 | 180 | 49,11 | 50,93 | 55 | 43 | 1 |
| 17 | 180 | 52,29 | 54,11 | 58 | 46 | 1 |
| 18 | 180 | 55,48 | 57,30 | 61 | 49 | 1 |
| 19 | 180 | 58,66 | 60,48 | 64 | 52 | 1 |
| 20 | 180 | 61,84 | 63,66 | 67 | 55 | 1 |
| 21 | 180 | 65,03 | 66,85 | 70 | 56 | 1 |
| 22 | 180 | 68,21 | 70,03 | 74 | 60 | 1 |
| 23 | 180 | 71,39 | 73,21 | 76 | 62 | 1 |
| 24 | 180 | 74,57 | 76,39 | 80 | 66 | 1 |
| 25 | 180 | 77,76 | 79,58 | 82 | 69 | 1 |
| 26 | 180 | 80,94 | 82,76 | 86 | 72 | 1 |
| 27 | 180 | 84,12 | 85,94 | 90 | 76 | 1 |
| 28 | 180 | 87,31 | 89,13 | 93 | 79 | 1 |
| 29 | 180 | 90,49 | 92,31 | 96 | 82 | 1 |
| 30 | 180 | 93,67 | 95,49 | 99 | 85 | 1 |
| 31 | 180 | 96,86 | 98,68 | 102 | 88 | 1 |
| 32 | 180 | 100,04 | 101,86 | 105 | 91 | 1 |
| 33 | 180 | 103,22 | 105,04 | 110 | 96 | 1,5 |
| 34 | 180 | 106,41 | 108,23 | 113 | 99 | 1,5 |

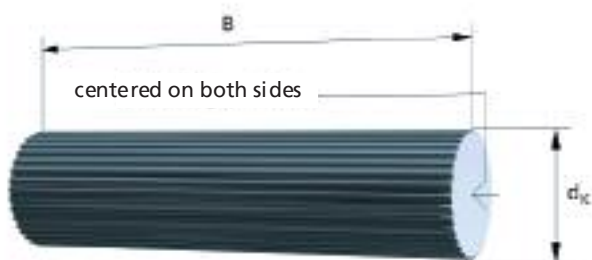
AT profile (AT 10)

Pitch and lengths [mm]

| z | B | AT 10 | | | | |
|----|-----|-----------------------|--------|-------|-------|-----|
| | | AT 10 (backlash free) | | | | |
| | | d_k | d_o | d_B | d_l | s |
| 35 | 180 | 109,59 | 111,41 | 115 | 101 | 1,5 |
| 36 | 180 | 112,77 | 114,59 | 118 | 104 | 1,5 |
| 37 | 180 | 115,95 | 117,77 | 121 | 107 | 1,5 |
| 38 | 180 | 119,14 | 120,96 | 126 | 112 | 1,5 |
| 39 | 180 | 122,32 | 124,14 | 129 | 115 | 1,5 |
| 40 | 180 | 125,50 | 127,32 | 131 | 115 | 1,5 |
| 41 | 180 | 128,69 | 130,51 | 134 | 120 | 1,5 |
| 42 | 180 | 131,87 | 133,69 | 137 | 123 | 1,5 |
| 43 | 180 | 135,05 | 136,87 | 140 | 126 | 1,5 |
| 44 | 180 | 138,24 | 140,06 | 145 | 131 | 1,5 |
| 45 | 180 | 141,42 | 143,24 | 148 | 134 | 1,5 |
| 46 | 180 | 144,60 | 146,42 | 150 | 136 | 1,5 |
| 47 | 180 | 147,79 | 149,61 | 153 | 139 | 1,5 |
| 48 | 180 | 150,97 | 152,79 | 156 | 140 | 1,5 |
| 49 | 180 | 154,15 | 155,97 | 161 | 147 | 1,5 |
| 50 | 180 | 157,33 | 159,15 | 164 | 150 | 1,5 |
| 51 | 180 | 160,52 | 162,34 | 166 | 152 | 1,5 |
| 52 | 180 | 163,70 | 165,52 | 169 | 155 | 1,5 |
| 53 | 180 | 166,88 | 168,70 | 172 | 158 | 1,5 |
| 54 | 180 | 170,07 | 171,89 | 176 | 163 | 1,5 |
| 55 | 180 | 173,25 | 175,07 | 179 | 165 | 1,5 |
| 56 | 180 | 176,43 | 178,25 | 182 | 168 | 1,5 |
| 57 | 180 | 179,62 | 181,44 | 185 | 171 | 1,5 |
| 58 | 180 | 182,80 | 184,62 | 188 | 174 | 1,5 |
| 59 | 180 | 185,98 | 187,80 | 191 | 177 | 1,5 |
| 60 | 180 | 189,17 | 190,99 | 195 | 181 | 1,5 |
| 61 | 180 | 192,35 | 194,17 | 198 | 184 | 1,5 |
| 62 | 180 | 195,53 | 197,35 | 201 | 187 | 1,5 |
| 63 | 180 | 198,72 | 200,54 | 204 | 190 | 1,5 |
| 64 | 180 | 201,90 | 203,72 | 207 | 193 | 1,5 |
| 65 | 180 | 205,08 | 206,90 | 210 | 196 | 1,5 |
| 66 | 180 | 208,26 | 210,08 | 214 | 200 | 1,5 |
| 67 | 180 | 211,45 | 213,27 | 217 | 203 | 1,5 |
| 68 | 180 | 214,63 | 216,45 | 220 | 206 | 1,5 |
| 69 | 180 | 217,81 | 219,63 | 223 | 209 | 1,5 |
| 70 | 180 | 221,00 | 222,82 | 226 | 212 | 1,5 |
| 71 | 180 | 224,18 | 226,00 | 230 | 216 | 1,5 |
| 72 | 180 | 227,36 | 229,18 | 233 | 219 | 1,5 |

Synchronising shafts

T profile (T 2.5, T 5, T 10)



Order example:

Material AL
 Width 180
 Type / Pitch T5 / 48
 No. of teeth

Material:
 AlCuMgPb

Order example flanges:

Flange BR 156 x 140 x 1.5
 Outside diameter d_B
 Inside diameter d_I
 Thickness s

- z = number of teeth
- B = width [mm]
- d_k = crown diameter
- d_0 = pitch circle diameter
- d_B = flange diameter
- d_I = inner flange diameter
- s = flange thickness

Pitch and widths [mm]

| z | T 2,5 | | | | | | T 5 | | | | | | T 10 | | | | | |
|----|-------|-------|-------|-------|-------|---|-----|-------|-------|-------|-------|---|------|--------|--------|-------|-------|-----|
| | B | d_k | d_0 | d_B | d_I | s | B | d_k | d_0 | d_B | d_I | s | B | d_k | d_0 | d_B | d_I | s |
| 15 | 120 | 11,40 | 11,94 | 15 | 9 | 1 | 150 | 23,05 | 23,87 | 28 | 18 | 1 | 180 | 45,90 | 47,75 | 51 | 39 | 1 |
| 16 | 150 | 12,20 | 12,73 | 16 | 10 | 1 | 150 | 24,60 | 25,46 | 30 | 20 | 1 | 180 | 49,10 | 50,93 | 55 | 43 | 1 |
| 17 | 150 | 13,00 | 13,53 | 16 | 10 | 1 | 150 | 26,20 | 27,06 | 31 | 21 | 1 | 180 | 52,25 | 54,11 | 58 | 46 | 1 |
| 18 | 180 | 13,80 | 14,32 | 17 | 11 | 1 | 180 | 27,80 | 28,65 | 34 | 24 | 1 | 180 | 55,44 | 57,30 | 61 | 49 | 1 |
| 19 | 180 | 14,60 | 15,12 | 18 | 12 | 1 | 180 | 29,40 | 30,24 | 34 | 24 | 1 | 180 | 58,64 | 60,48 | 64 | 52 | 1 |
| 20 | 180 | 15,40 | 15,92 | 19 | 11 | 1 | 180 | 31,00 | 31,83 | 36 | 26 | 1 | 180 | 61,80 | 63,66 | 67 | 55 | 1 |
| 21 | 180 | 16,20 | 16,71 | 20 | 12 | 1 | 180 | 32,60 | 33,42 | 37 | 27 | 1 | 180 | 65,00 | 66,85 | 70 | 56 | 1 |
| 22 | 180 | 17,00 | 17,51 | 20 | 12 | 1 | 180 | 34,15 | 35,01 | 39 | 29 | 1 | 180 | 68,20 | 70,03 | 74 | 60 | 1 |
| 23 | 180 | 17,80 | 18,30 | 21 | 13 | 1 | 180 | 35,75 | 36,61 | 40 | 29 | 1 | 180 | 71,35 | 73,21 | 76 | 62 | 1 |
| 24 | 180 | 18,55 | 19,10 | 22 | 14 | 1 | 180 | 37,35 | 38,20 | 43 | 31 | 1 | 180 | 74,55 | 76,39 | 80 | 66 | 1 |
| 25 | 180 | 19,35 | 19,89 | 23 | 14 | 1 | 180 | 38,95 | 39,75 | 43 | 31 | 1 | 180 | 77,75 | 79,58 | 83 | 69 | 1 |
| 26 | 180 | 20,15 | 20,69 | 23 | 14 | 1 | 180 | 40,55 | 41,83 | 45 | 33 | 1 | 180 | 80,90 | 82,76 | 86 | 72 | 1 |
| 27 | 180 | 20,95 | 21,49 | 24 | 14 | 1 | 180 | 42,15 | 42,97 | 47 | 35 | 1 | 180 | 84,10 | 85,94 | 90 | 76 | 1 |
| 28 | 180 | 21,75 | 22,28 | 25 | 15 | 1 | 180 | 43,75 | 44,56 | 48 | 34 | 1 | 180 | 87,25 | 89,13 | 93 | 79 | 1 |
| 29 | 180 | 22,55 | 23,08 | 26 | 16 | 1 | 180 | 45,30 | 46,15 | 50 | 36 | 1 | 180 | 90,45 | 92,31 | 96 | 82 | 1 |
| 30 | 180 | 23,35 | 23,87 | 27 | 17 | 1 | 180 | 46,90 | 47,75 | 51 | 39 | 1 | 180 | 93,65 | 95,49 | 99 | 85 | 1 |
| 31 | 180 | 24,15 | 24,67 | 27 | 17 | 1 | 180 | 48,50 | 49,34 | 53 | 41 | 1 | 180 | 96,80 | 98,68 | 102 | 88 | 1 |
| 32 | 180 | 24,95 | 25,46 | 28 | 18 | 1 | 180 | 50,10 | 50,93 | 55 | 43 | 1 | 180 | 100,00 | 101,86 | 105 | 91 | 1 |
| 33 | 180 | 25,75 | 26,26 | 28 | 18 | 1 | 180 | 51,70 | 52,52 | 56 | 44 | 1 | 180 | 103,20 | 105,04 | 110 | 96 | 1,5 |
| 34 | 180 | 26,55 | 27,06 | 30 | 20 | 1 | 180 | 53,30 | 54,11 | 58 | 46 | 1 | 180 | 106,35 | 108,23 | 113 | 99 | 1,5 |

T profile (T 2.5, T 5, T 10)

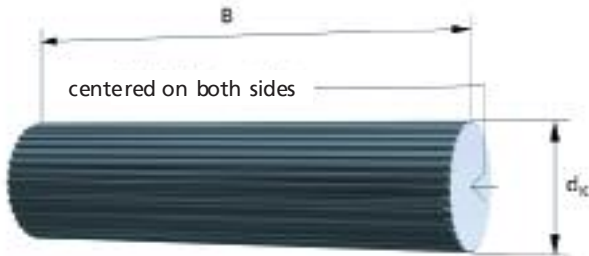
Pitch and lengths [mm]

| z | T 2,5 | | | | | | T 5 | | | | | | T 10 | | | | | |
|----|-------|----------------|----------------|----------------|----------------|---|-----|----------------|----------------|----------------|----------------|-----|------|----------------|----------------|----------------|----------------|-----|
| | B | d _k | d ₀ | d _B | d _I | s | B | d _k | d ₀ | d _B | d _I | s | B | d _k | d ₀ | d _B | d _I | s |
| 35 | 180 | 27,35 | 27,85 | 31 | 21 | 1 | 186 | 54,85 | 55,70 | 60 | 48 | 1 | 180 | 109,55 | 111,41 | 115 | 101 | 1,5 |
| 36 | 180 | 28,15 | 28,65 | 31 | 21 | 1 | 180 | 56,45 | 57,30 | 61 | 49 | 1 | 180 | 112,75 | 114,59 | 118 | 104 | 1,5 |
| 37 | 180 | 28,90 | 29,44 | 32 | 22 | 1 | 180 | 58,05 | 58,89 | 62 | 50 | 1 | 180 | 115,90 | 117,77 | 121 | 107 | 1,5 |
| 38 | 180 | 29,70 | 30,24 | 33 | 23 | 1 | 180 | 59,65 | 60,48 | 64 | 52 | 1 | 180 | 119,10 | 120,96 | 126 | 112 | 1,5 |
| 39 | 180 | 30,50 | 31,04 | 34 | 24 | 1 | 180 | 61,25 | 62,07 | 66 | 52 | 1 | 180 | 122,30 | 124,14 | 129 | 115 | 1,5 |
| 40 | 180 | 31,30 | 31,83 | 35 | 25 | 1 | 180 | 62,85 | 63,66 | 67 | 55 | 1 | 180 | 125,45 | 127,32 | 131 | 115 | 1,5 |
| 41 | 180 | 32,10 | 32,63 | 35 | 25 | 1 | 180 | 64,40 | 65,25 | 70 | 56 | 1 | 180 | 128,65 | 130,51 | 134 | 120 | 1,5 |
| 42 | 180 | 32,90 | 33,42 | 36 | 26 | 1 | 180 | 66,00 | 66,85 | 70 | 56 | 1 | 180 | 131,85 | 133,69 | 137 | 123 | 1,5 |
| 43 | 180 | 33,70 | 34,22 | 37 | 27 | 1 | 180 | 67,60 | 68,44 | 72 | 58 | 1 | 180 | 135,00 | 136,87 | 140 | 126 | 1,5 |
| 44 | 180 | 34,50 | 35,01 | 39 | 29 | 1 | 180 | 69,20 | 70,03 | 74 | 60 | 1 | 180 | 138,20 | 140,06 | 145 | 131 | 1,5 |
| 45 | 180 | 35,30 | 35,81 | 39 | 29 | 1 | 180 | 70,80 | 71,62 | 75 | 61 | 1 | 180 | 141,40 | 143,24 | 148 | 134 | 1,5 |
| 46 | 180 | 36,10 | 36,61 | 39 | 29 | 1 | 180 | 72,40 | 73,21 | 78 | 64 | 1 | 180 | 144,50 | 146,42 | 150 | 136 | 1,5 |
| 47 | 180 | 36,90 | 37,40 | 40 | 29 | 1 | 180 | 73,95 | 74,80 | 78 | 64 | 1 | 180 | 147,75 | 149,61 | 153 | 139 | 1,5 |
| 48 | 180 | 37,70 | 38,20 | 42 | 30 | 1 | 180 | 75,55 | 76,39 | 80 | 66 | 1 | 180 | 150,95 | 152,79 | 156 | 140 | 1,5 |
| 49 | 180 | 38,45 | 38,99 | 42 | 30 | 1 | 180 | 77,15 | 77,99 | 82 | 68 | 1 | 180 | 154,10 | 155,97 | 161 | 147 | 1,5 |
| 50 | 180 | 39,25 | 39,79 | 43 | 31 | 1 | 180 | 78,75 | 79,58 | 84 | 70 | 1 | 180 | 157,30 | 159,15 | 164 | 150 | 1,5 |
| 51 | 180 | 40,05 | 40,58 | 43 | 31 | 1 | 180 | 80,35 | 81,17 | 86 | 72 | 1 | 180 | 160,50 | 162,34 | 166 | 152 | 1,5 |
| 52 | 180 | 40,85 | 41,38 | 45 | 33 | 1 | 180 | 81,95 | 82,76 | 86 | 72 | 1 | 180 | 163,65 | 165,52 | 169 | 155 | 1,5 |
| 53 | 180 | 41,65 | 42,18 | 45 | 33 | 1 | 180 | 83,55 | 84,35 | 88 | 74 | 1 | 180 | 166,85 | 168,70 | 172 | 158 | 1,5 |
| 54 | 180 | 42,45 | 42,97 | 47 | 34 | 1 | 180 | 85,10 | 85,94 | 90 | 76 | 1 | 180 | 170,05 | 171,89 | 177 | 163 | 1,5 |
| 55 | 180 | 43,25 | 43,77 | 47 | 34 | 1 | 180 | 86,70 | 87,54 | 91 | 77 | 1 | 180 | 173,20 | 175,07 | 179 | 165 | 1,5 |
| 56 | 180 | 44,05 | 44,56 | 47 | 34 | 1 | 180 | 88,30 | 89,13 | 93 | 79 | 1 | 180 | 176,40 | 178,25 | 182 | 168 | 1,5 |
| 57 | 180 | 44,85 | 45,36 | 48 | 34 | 1 | 180 | 89,90 | 90,72 | 94 | 80 | 1 | 180 | 179,60 | 181,44 | 185 | 171 | 1,5 |
| 58 | 180 | 45,65 | 46,15 | 50 | 36 | 1 | 180 | 91,50 | 92,31 | 96 | 82 | 1 | 180 | 182,75 | 184,62 | 188 | 174 | 1,5 |
| 59 | 180 | 46,45 | 46,95 | 50 | 36 | 1 | 180 | 93,10 | 93,90 | 97 | 83 | 1 | 180 | 185,95 | 187,80 | 191 | 177 | 1,5 |
| 60 | 180 | 47,25 | 47,75 | 52 | 40 | 1 | 180 | 94,65 | 95,49 | 99 | 85 | 1 | 180 | 189,15 | 190,99 | 195 | 181 | 1,5 |
| 61 | 180 | 48,05 | 48,54 | 52 | 40 | 1 | 180 | 96,25 | 97,08 | 100 | 88 | 1 | 180 | 192,30 | 194,17 | 198 | 184 | 1,5 |
| 62 | 180 | 48,80 | 49,34 | 53 | 41 | 1 | 180 | 97,85 | 98,68 | 102 | 88 | 1 | 180 | 195,50 | 197,35 | 201 | 187 | 1,5 |
| 63 | 180 | 49,60 | 50,13 | 53 | 41 | 1 | 180 | 99,45 | 100,27 | 104 | 90 | 1 | 180 | 198,70 | 200,54 | 204 | 190 | 1,5 |
| 64 | 180 | 50,40 | 50,93 | 55 | 43 | 1 | 180 | 101,05 | 101,86 | 105 | 91 | 1,5 | 180 | 201,85 | 203,72 | 207 | 193 | 1,5 |
| 65 | 180 | 51,20 | 51,73 | 55 | 43 | 1 | 180 | 102,65 | 103,45 | 107 | 93 | 1,5 | 180 | 205,05 | 206,90 | 210 | 196 | 1,5 |
| 66 | 180 | 52,00 | 52,52 | 55 | 43 | 1 | 180 | 104,20 | 105,04 | 109 | 95 | 1,5 | 180 | 208,25 | 210,08 | 214 | 200 | 1,5 |
| 67 | 180 | 52,80 | 53,32 | 55 | 43 | 1 | 180 | 105,80 | 106,63 | 112 | 98 | 1,5 | 180 | 211,40 | 213,27 | 217 | 203 | 1,5 |
| 68 | 180 | 53,60 | 54,11 | 57 | 46 | 1 | 180 | 107,40 | 108,23 | 112 | 98 | 1,5 | 180 | 214,60 | 216,45 | 220 | 206 | 1,5 |
| 69 | 180 | 54,40 | 54,91 | 58 | 46 | 1 | 180 | 109,00 | 109,82 | 115 | 101 | 1,5 | 180 | 217,80 | 219,63 | 223 | 209 | 1,5 |
| 70 | 180 | 55,20 | 55,70 | 60 | 48 | 1 | 180 | 110,60 | 111,41 | 115 | 101 | 1,5 | 180 | 220,95 | 222,82 | 226 | 212 | 1,5 |
| 71 | 180 | 56,00 | 56,50 | 60 | 48 | 1 | 180 | 112,20 | 113,00 | 117 | 103 | 1,5 | 180 | 224,15 | 226,00 | 230 | 216 | 1,5 |
| 72 | 180 | 56,80 | 57,30 | 60 | 48 | 1 | 180 | 113,75 | 114,59 | 118 | 104 | 1,5 | 180 | 227,35 | 229,18 | 233 | 219 | 1,5 |

Synchronising shafts

Imperial profile (XL, L, H)

(T1/5", T3/8", T1/2")

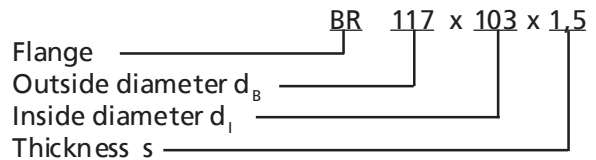


Order example:



Material:
AlCuMgPb

Order example flanges:



- z = number of teeth
- B = width [mm]
- d_k = crown diameter
- d₀ = pitch circle diameter
- d_b = flange diameter
- d_i = inner flange diameter
- s = flange thickness

Pitch and widths [mm]

| z | XL | | | | | | L | | | | | | H | | | | | |
|----|-----|----------------|----------------|----------------|----------------|---|-----|----------------|----------------|----------------|----|---|-----|----------------|----------------|----------------|----------------|-----|
| | B | d _k | d ₀ | d _b | d _i | s | B | d _k | d ₀ | d _b | d | s | B | d _k | d ₀ | d _b | d _i | s |
| 15 | - | - | - | - | - | - | 180 | 44,72 | 45,48 | 51 | 40 | 1 | 180 | 59,27 | 60,64 | 67 | 53 | 1 |
| 16 | - | - | - | - | - | - | 180 | 47,75 | 48,51 | 55 | 42 | 1 | 180 | 63,31 | 64,68 | 70 | 56 | 1 |
| 17 | 180 | 26,98 | 27,49 | 32 | 22 | 1 | 180 | 50,78 | 51,54 | 58 | 44 | 1 | 180 | 67,35 | 68,72 | 74 | 60 | 1 |
| 18 | 180 | 28,60 | 29,11 | 35 | 25 | 1 | 180 | 53,81 | 54,57 | 61 | 47 | 1 | 180 | 71,39 | 72,77 | 76 | 62 | 1 |
| 19 | 180 | 30,22 | 30,72 | 36 | 26 | 1 | 180 | 56,84 | 57,61 | 64 | 50 | 1 | 180 | 75,44 | 76,81 | 82 | 68 | 1 |
| 20 | 180 | 31,83 | 32,34 | 37 | 27 | 1 | 180 | 59,88 | 60,64 | 67 | 53 | 1 | 180 | 79,48 | 80,85 | 86 | 72 | 1 |
| 21 | 180 | 33,45 | 33,96 | 39 | 29 | 1 | 180 | 62,91 | 63,67 | 70 | 56 | 1 | 180 | 83,52 | 84,89 | 90 | 76 | 1 |
| 22 | 180 | 35,07 | 35,57 | 40 | 30 | 1 | 180 | 65,94 | 66,70 | 72 | 58 | 1 | 180 | 87,56 | 88,94 | 93 | 79 | 1 |
| 23 | 180 | 36,68 | 37,19 | 42 | 30 | 1 | 180 | 68,97 | 69,73 | 74 | 60 | 1 | 180 | 91,61 | 92,98 | 96 | 82 | 1 |
| 24 | 180 | 38,30 | 38,81 | 43 | 31 | 1 | 180 | 72,00 | 72,77 | 78 | 64 | 1 | 180 | 95,65 | 97,02 | 102 | 88 | 1 |
| 25 | 180 | 39,92 | 40,43 | 45 | 33 | 1 | 180 | 75,04 | 75,80 | 82 | 68 | 1 | 180 | 99,69 | 101,06 | 105 | 91 | 1,5 |
| 26 | 180 | 41,53 | 42,04 | 47 | 35 | 1 | 180 | 78,07 | 78,83 | 84 | 68 | 1 | 180 | 103,73 | 105,11 | 110 | 96 | 1,5 |
| 27 | 180 | 43,15 | 43,66 | 48 | 36 | 1 | 180 | 81,10 | 81,86 | 86 | 72 | 1 | 180 | 107,78 | 109,15 | 113 | 99 | 1,5 |
| 28 | 180 | 44,77 | 45,28 | 50 | 38 | 1 | 180 | 84,13 | 84,89 | 90 | 76 | 1 | 180 | 111,82 | 113,19 | 117 | 103 | 1,5 |
| 29 | 180 | 46,38 | 46,89 | 52 | 40 | 1 | 180 | 87,16 | 87,92 | 93 | 79 | 1 | 180 | 115,86 | 117,23 | 121 | 107 | 1,5 |

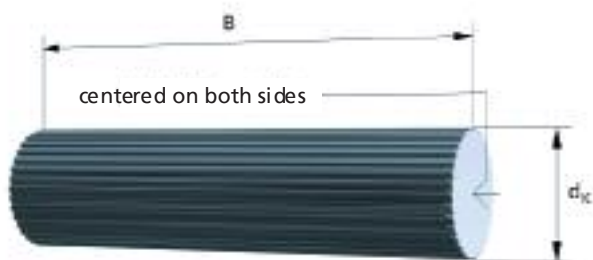
Imperial profile (XL, L, H) (T1/5", T3/8", T1/2")

Pitch and widths [mm]

| z | XL | | | | | | L | | | | | | H | | | | | |
|----|-----|----------------|----------------|----------------|----------------|-----|-----|----------------|----------------|----------------|----------------|-----|-----|----------------|----------------|----------------|----------------|-----|
| | B | d _k | d ₀ | d _B | d _i | s | B | d _k | d ₀ | d _B | d _i | s | B | d _k | d ₀ | d _B | d _i | s |
| 30 | 180 | 48,00 | 48,51 | 53 | 41 | 1 | 180 | 90,20 | 90,96 | 97 | 83 | 1 | 180 | 119,90 | 121,28 | 126 | 112 | 1,5 |
| 31 | 180 | 49,62 | 50,13 | 55 | 43 | 1 | 180 | 93,23 | 93,99 | 99 | 85 | 1 | 180 | 123,95 | 125,32 | 129 | 115 | 1,5 |
| 32 | 180 | 51,24 | 51,74 | 56 | 44 | 1 | 180 | 96,26 | 97,02 | 101 | 87 | 1 | 180 | 127,99 | 129,36 | 134 | 120 | 1,5 |
| 33 | 180 | 52,85 | 53,36 | 58 | 46 | 1 | 180 | 99,29 | 100,05 | 106 | 92 | 1,5 | 180 | 132,03 | 133,40 | 137 | 123 | 1,5 |
| 34 | 180 | 54,17 | 54,98 | 60 | 48 | 1 | 180 | 102,32 | 103,08 | 108 | 94 | 1,5 | 180 | 136,08 | 137,45 | 142 | 128 | 1,5 |
| 35 | 180 | 56,09 | 56,60 | 62 | 50 | 1 | 180 | 105,36 | 106,12 | 110 | 96 | 1,5 | 180 | 140,12 | 141,49 | 145 | 131 | 1,5 |
| 36 | 180 | 57,70 | 58,21 | 62 | 50 | 1 | 180 | 108,39 | 109,15 | 115 | 101 | 1,5 | 180 | 144,16 | 145,53 | 150 | 136 | 1,5 |
| 37 | 180 | 59,39 | 59,83 | 64 | 52 | 1 | 180 | 111,42 | 112,18 | 118 | 104 | 1,5 | 180 | 148,20 | 149,57 | 153 | 139 | 1,5 |
| 38 | 180 | 60,94 | 61,45 | 66 | 52 | 1 | 180 | 114,45 | 115,21 | 121 | 107 | 1,5 | 180 | 152,25 | 153,62 | 158 | 144 | 1,5 |
| 39 | 180 | 62,55 | 63,06 | 68 | 54 | 1 | 180 | 117,48 | 118,24 | 123 | 109 | 1,5 | 180 | 156,29 | 157,66 | 161 | 147 | 1,5 |
| 40 | 180 | 64,17 | 64,68 | 72 | 58 | 1 | 180 | 120,51 | 121,28 | 126 | 112 | 1,5 | 180 | 160,33 | 161,70 | 166 | 152 | 1,5 |
| 41 | 180 | 65,97 | 66,30 | 72 | 58 | 1 | 180 | 123,55 | 124,31 | 129 | 115 | 1,5 | 180 | 164,37 | 165,74 | 171 | 157 | 1,5 |
| 42 | 180 | 67,40 | 67,91 | 72 | 58 | 1 | 180 | 126,58 | 127,34 | 131 | 117 | 1,5 | 180 | 168,42 | 169,79 | 174 | 160 | 1,5 |
| 43 | 180 | 69,02 | 69,53 | 74 | 60 | 1 | 180 | 129,61 | 130,37 | 137 | 119 | 1,5 | 180 | 172,46 | 173,83 | 179 | 165 | 1,5 |
| 44 | 180 | 70,64 | 71,15 | 75 | 61 | 1 | 180 | 132,64 | 133,40 | 137 | 123 | 1,5 | 180 | 176,50 | 177,87 | 182 | 168 | 1,5 |
| 45 | 180 | 72,26 | 72,77 | 78 | 64 | 1 | 180 | 135,68 | 136,44 | 140 | 126 | 1,5 | 180 | 180,54 | 181,91 | 185 | 171 | 1,5 |
| 46 | 180 | 73,87 | 74,38 | 80 | 66 | 1 | 180 | 138,71 | 139,47 | 145 | 131 | 1,5 | 180 | 184,59 | 185,96 | 191 | 177 | 1,5 |
| 47 | 180 | 75,49 | 76,00 | 80 | 66 | 1 | 180 | 141,74 | 142,50 | 148 | 134 | 1,5 | 180 | 188,63 | 190,00 | 195 | 181 | 1,5 |
| 48 | 180 | 77,11 | 77,62 | 82 | 68 | 1 | 180 | 144,77 | 145,53 | 153 | 139 | 1,5 | 180 | 192,67 | 194,04 | 198 | 184 | 1,5 |
| 49 | 180 | 78,72 | 79,23 | 84 | 70 | 1 | 180 | 147,80 | 148,56 | 153 | 139 | 1,5 | 180 | 196,71 | 198,08 | 201 | 187 | 1,5 |
| 50 | 180 | 80,34 | 80,85 | 86 | 72 | 1 | 180 | 150,83 | 151,59 | 156 | 142 | 1,5 | 180 | 200,76 | 202,13 | 207 | 193 | 1,5 |
| 51 | 180 | 81,96 | 82,47 | 88 | 74 | 1 | 180 | 153,87 | 154,63 | 161 | 147 | 1,5 | 180 | 204,80 | 206,17 | 210 | 196 | 1,5 |
| 52 | 180 | 83,57 | 84,08 | 90 | 76 | 1 | 180 | 156,90 | 157,66 | 164 | 150 | 1,5 | 180 | 208,84 | 210,21 | 214 | 200 | 1,5 |
| 53 | 180 | 85,19 | 85,70 | 90 | 76 | 1 | 180 | 159,93 | 160,69 | 166 | 152 | 1,5 | 180 | 212,88 | 214,25 | 217 | 203 | 1,5 |
| 54 | 180 | 86,81 | 87,32 | 91 | 77 | 1 | 180 | 162,96 | 163,72 | 169 | 155 | 1,5 | 180 | 216,93 | 218,30 | 223 | 209 | 1,5 |
| 55 | 180 | 88,43 | 88,94 | 93 | 79 | 1 | 180 | 165,99 | 166,75 | 171 | 157 | 1,5 | 180 | 220,97 | 222,34 | 226 | 212 | 1,5 |
| 56 | 180 | 90,04 | 90,55 | 96 | 82 | 1 | 180 | 169,03 | 169,79 | 174 | 160 | 1,5 | 180 | 225,01 | 226,38 | 230 | 216 | 1,5 |
| 57 | 180 | 91,66 | 92,17 | 99 | 85 | 1 | 180 | 172,06 | 172,82 | 179 | 165 | 1,5 | 180 | 229,05 | 230,42 | 236 | 222 | 1,5 |
| 58 | 180 | 93,28 | 93,79 | 99 | 85 | 1 | 180 | 175,09 | 175,85 | 182 | 168 | 1,5 | 180 | 233,10 | 234,47 | 239 | 225 | 1,5 |
| 59 | 180 | 94,89 | 95,40 | 100 | 86 | 1 | 180 | 178,12 | 178,88 | 185 | 171 | 1,5 | 180 | 237,14 | 238,51 | 242 | 228 | 1,5 |
| 60 | 180 | 96,51 | 97,02 | 102 | 88 | 1 | 180 | 181,15 | 181,91 | 188 | 174 | 1,5 | 180 | 241,18 | 242,55 | 245 | 231 | 1,5 |
| 61 | 180 | 98,13 | 98,64 | 104 | 90 | 1 | 180 | 184,19 | 184,95 | 192 | 175 | 1,5 | 180 | 245,22 | 246,59 | 252 | 238 | 1,5 |
| 62 | 180 | 99,74 | 100,25 | 106 | 92 | 1 | 180 | 187,22 | 187,98 | 192 | 175 | 1,5 | 180 | 249,27 | 250,64 | 255 | 241 | 1,5 |
| 63 | 180 | 101,36 | 101,87 | 106 | 92 | 1 | 180 | 190,25 | 191,01 | 195 | 181 | 1,5 | 180 | 253,31 | 254,68 | 258 | 244 | 1,5 |
| 64 | 180 | 102,98 | 103,49 | 109 | 95 | 1,5 | 180 | 193,28 | 194,04 | 198 | 184 | 1,5 | 180 | 257,35 | 258,72 | 261 | 247 | 1,5 |
| 65 | 180 | 104,60 | 105,11 | 109 | 95 | 1,5 | 180 | 196,31 | 197,07 | 205 | 188 | 1,5 | 180 | 261,39 | 262,76 | 268 | 254 | 1,5 |
| 66 | 180 | 106,21 | 106,72 | 112 | 98 | 1,5 | 180 | 199,35 | 200,11 | 205 | 188 | 1,5 | 180 | 265,44 | 266,81 | 271 | 257 | 1,5 |
| 67 | 180 | 107,83 | 108,34 | 115 | 101 | 1,5 | 180 | 202,38 | 203,14 | 210 | 196 | 1,5 | 180 | 269,48 | 270,85 | 274 | 260 | 1,5 |
| 68 | 180 | 109,45 | 109,96 | 115 | 101 | 1,5 | 180 | 205,41 | 206,17 | 212 | 196 | 1,5 | 180 | 273,52 | 274,89 | 280 | 266 | 1,5 |
| 69 | 180 | 111,06 | 111,57 | 117 | 103 | 1,5 | 180 | 208,44 | 209,20 | 216 | 200 | 1,5 | 180 | 277,56 | 278,93 | 284 | 270 | 1,5 |

Synchronising shafts

HTD profile (5M, 8M)



Order example:

Material AL
 Width 180
 Type / Pitch 5M / 48
 No. of teeth

Material:
 AlCuMgPb

Order example flanges:

Flange BR
 Outside diameter d_B 158 x 142 x 1,5
 Inside diameter d_i
 Thickness s

- z = number of teeth
- B = width [mm]
- d_k = crown diameter
- d_0 = pitch circle diameter
- d_B = flange diameter
- d_i = inner flange diameter
- s = flange thickness

Pitch and widths [mm]

| z | B | d_k | 5M | | | | s | z | B | d_k | 8M | | | | s |
|----|-----|-------|-------|-------|-------|---|----|-----|-------|-------|-------|-------|-------|--|---|
| | | | d_0 | d_B | d_i | | | | | | d_0 | d_B | d_i | | |
| 15 | 140 | 22,73 | 23,87 | 28 | 18 | 1 | | | | | | | | | |
| 16 | 140 | 24,32 | 25,46 | 28 | 18 | 1 | | | | | | | | | |
| 17 | 140 | 25,92 | 27,06 | 32 | 22 | 1 | | | | | | | | | |
| 18 | 140 | 27,51 | 28,65 | 32 | 22 | 1 | | | | | | | | | |
| 19 | 140 | 29,10 | 30,24 | 36 | 24 | 1 | | | | | | | | | |
| 20 | 160 | 30,69 | 31,83 | 36 | 24 | 1 | | | | | | | | | |
| 21 | 160 | 32,28 | 33,42 | 38 | 28 | 1 | | | | | | | | | |
| 22 | 160 | 33,87 | 35,01 | 38 | 28 | 1 | 22 | 180 | 54,65 | 56,02 | 60 | 48 | 1 | | |
| 23 | 160 | 35,47 | 36,61 | 42 | 30 | 1 | 23 | 180 | 57,20 | 58,57 | 63 | 48 | 1 | | |
| 24 | 160 | 37,06 | 38,20 | 42 | 30 | 1 | 24 | 180 | 59,75 | 61,12 | 66 | 51 | 1 | | |
| 25 | 160 | 38,65 | 39,79 | 44 | 31 | 1 | 25 | 180 | 62,29 | 63,66 | 66 | 51 | 1 | | |
| 26 | 180 | 40,24 | 41,38 | 44 | 31 | 1 | 26 | 180 | 64,84 | 66,21 | 71 | 57 | 1 | | |
| 27 | 180 | 41,83 | 42,97 | 48 | 36 | 1 | 27 | 180 | 67,38 | 68,75 | 74 | 60 | 1 | | |
| 28 | 180 | 43,42 | 44,56 | 48 | 36 | 1 | 28 | 180 | 70,08 | 71,30 | 75 | 61 | 1 | | |
| 29 | 180 | 45,01 | 46,15 | 52 | 40 | 1 | 29 | 180 | 72,48 | 73,85 | 78 | 64 | 1 | | |

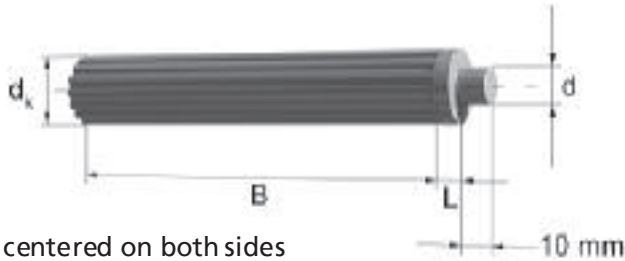
HTD profile (5M, 8M)

Pitch and widths [mm]

| 5M | | | | | | | 8M | | | | | | |
|----|-----|----------------|----------------|----------------|----------------|-----|----|-----|----------------|----------------|----------------|----------------|-----|
| z | B | d _k | d ₀ | d _B | d _i | s | z | B | d _k | d ₀ | d _B | d _i | s |
| 30 | 180 | 46,60 | 47,75 | 52 | 40 | 1 | 30 | 180 | 75,13 | 76,39 | 82 | 66 | 1 |
| 31 | 180 | 48,20 | 49,34 | 55 | 41 | 1 | 31 | 180 | 77,57 | 78,94 | 84 | 70 | 1 |
| 32 | 180 | 49,79 | 50,93 | 55 | 41 | 1 | 32 | 180 | 80,16 | 81,49 | 86 | 72 | 1 |
| 33 | 180 | 51,38 | 52,52 | 56 | 44 | 1 | 33 | 180 | 82,66 | 84,03 | 88 | 74 | 1 |
| 34 | 180 | 52,97 | 54,11 | 60 | 44 | 1 | 34 | 180 | 85,22 | 86,58 | 91 | 77 | 1 |
| 35 | 180 | 54,56 | 55,70 | 60 | 48 | 1 | 35 | 180 | 87,76 | 89,13 | 93 | 79 | 1 |
| 36 | 180 | 56,16 | 57,30 | 60 | 48 | 1 | 36 | 180 | 90,30 | 91,67 | 99 | 83 | 1 |
| 37 | 180 | 57,75 | 58,89 | 64 | 52 | 1 | 37 | 180 | 92,85 | 94,22 | 99 | 83 | 1 |
| 38 | 180 | 59,34 | 60,48 | 66 | 52 | 1 | 38 | 180 | 95,39 | 96,77 | 102 | 88 | 1 |
| 39 | 180 | 60,93 | 62,07 | 66 | 52 | 1 | 39 | 180 | 97,94 | 99,31 | 102 | 88 | 1 |
| 40 | 180 | 62,52 | 63,66 | 70 | 56 | 1 | 40 | 180 | 100,49 | 101,86 | 105 | 91 | 1,5 |
| 41 | 180 | 64,11 | 65,25 | 70 | 56 | 1 | 41 | 180 | 103,04 | 104,41 | 107 | 93 | 1,5 |
| 42 | 180 | 65,70 | 66,85 | 72 | 58 | 1 | 42 | 180 | 105,58 | 106,95 | 109 | 95 | 1,5 |
| 43 | 180 | 67,30 | 68,44 | 72 | 58 | 1 | 43 | 180 | 108,13 | 109,50 | 115 | 101 | 1,5 |
| 44 | 180 | 68,89 | 70,03 | 74 | 60 | 1 | 44 | 180 | 110,67 | 112,05 | 117 | 103 | 1,5 |
| 45 | 180 | 70,48 | 71,62 | 74 | 60 | 1 | 45 | 180 | 113,22 | 114,59 | 118 | 104 | 1,5 |
| 46 | 180 | 72,07 | 73,21 | 78 | 64 | 1 | 46 | 180 | 115,77 | 117,14 | 123 | 106 | 1,5 |
| 47 | 180 | 73,66 | 74,80 | 80 | 66 | 1 | 47 | 180 | 118,31 | 119,68 | 125 | 111 | 1,5 |
| 48 | 180 | 75,25 | 76,39 | 80 | 66 | 1 | 48 | 180 | 120,86 | 122,23 | 127 | 111 | 1,5 |
| 49 | 180 | 76,85 | 77,99 | 82 | 68 | 1 | 49 | 180 | 123,41 | 124,78 | 131 | 115 | 1,5 |
| 50 | 180 | 78,44 | 79,58 | 84 | 70 | 1 | 50 | 180 | 125,95 | 127,32 | 131 | 115 | 1,5 |
| 51 | 180 | 80,03 | 81,17 | 86 | 72 | 1 | 51 | 180 | 128,50 | 129,87 | 135 | 119 | 1,5 |
| 52 | 180 | 81,62 | 82,76 | 88 | 74 | 1 | 52 | 180 | 131,05 | 132,42 | 135 | 119 | 1,5 |
| 53 | 180 | 83,21 | 84,35 | 88 | 74 | 1 | 53 | 180 | 133,59 | 134,96 | 140 | 126 | 1,5 |
| 54 | 180 | 84,80 | 85,94 | 90 | 76 | 1 | 54 | 180 | 136,14 | 137,51 | 142 | 128 | 1,5 |
| 55 | 180 | 86,40 | 87,54 | 91 | 77 | 1 | 55 | 180 | 138,69 | 140,06 | 144 | 130 | 1,5 |
| 56 | 180 | 87,99 | 89,13 | 93 | 79 | 1 | 56 | 180 | 141,23 | 142,60 | 147 | 133 | 1,5 |
| 57 | 180 | 89,58 | 90,72 | 96 | 82 | 1 | 57 | 180 | 143,78 | 145,15 | 150 | 136 | 1,5 |
| 58 | 180 | 91,17 | 92,31 | 99 | 85 | 1 | 58 | 180 | 146,33 | 147,70 | 153 | 139 | 1,5 |
| 59 | 180 | 92,76 | 93,90 | 99 | 85 | 1 | 59 | 180 | 148,87 | 150,24 | 156 | 142 | 1,5 |
| 60 | 180 | 94,35 | 95,49 | 100 | 86 | 1 | 60 | 180 | 151,42 | 152,79 | 158 | 144 | 1,5 |
| 61 | 180 | 95,94 | 97,08 | 100 | 86 | 1 | 61 | 180 | 153,96 | 155,34 | 158 | 142 | 1,5 |
| 62 | 180 | 97,54 | 98,68 | 102 | 88 | 1 | 62 | 180 | 156,51 | 157,88 | 163 | 149 | 1,5 |
| 63 | 180 | 99,13 | 100,27 | 104 | 90 | 1 | 63 | 180 | 159,06 | 160,43 | 166 | 152 | 1,5 |
| 64 | 180 | 100,72 | 101,86 | 107 | 93 | 1,5 | 64 | 180 | 161,60 | 162,97 | 166 | 152 | 1,5 |
| 65 | 180 | 102,31 | 103,45 | 109 | 95 | 1,5 | 65 | 180 | 164,15 | 165,52 | 171 | 157 | 1,5 |
| 66 | 180 | 103,90 | 105,04 | 109 | 95 | 1,5 | 66 | 180 | 166,70 | 168,07 | 172 | 158 | 1,5 |
| 67 | 180 | 105,49 | 106,63 | 112 | 98 | 1,5 | 67 | 180 | 169,24 | 170,61 | 174 | 160 | 1,5 |
| 68 | 180 | 107,09 | 108,23 | 112 | 98 | 1,5 | 68 | 180 | 171,79 | 173,16 | 176 | 162 | 1,5 |
| 69 | 180 | 108,68 | 109,82 | 115 | 101 | 1,5 | 69 | 180 | 174,34 | 175,71 | 180 | 166 | 1,5 |

Synchronising shafts with tensioning tenons

AT profile (AT 5, AT 10)



centered on both sides

Order example:

Synchronising shaft SW 160 AT5 - 0 / 24
 Width _____
 Type / Pitch _____
 Toothform variant _____
 No. of teeth _____

Material:

AlCuMgPb

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (ordering addition: -0)

Pitch and widths [mm]

| AT 5 | | | | | | AT 10 | | | | | |
|------|-----|----------------|----------------|---|----|-------|-----|----------------|----------------|---|----|
| z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d |
| 15 | 132 | 22,65 | 23,87 | 8 | 10 | 15 | 160 | 45,93 | 47,75 | 0 | 16 |
| 16 | 140 | 24,24 | 25,46 | 0 | 10 | 16 | 160 | 49,11 | 50,93 | 0 | 16 |
| 17 | 140 | 25,84 | 27,06 | 0 | 10 | 17 | 160 | 52,29 | 54,11 | 0 | 16 |
| 18 | 140 | 27,43 | 28,65 | 0 | 10 | 18 | 160 | 55,48 | 57,30 | 0 | 16 |
| 19 | 140 | 29,02 | 30,24 | 0 | 10 | 19 | 160 | 58,66 | 60,48 | 0 | 16 |
| 20 | 160 | 30,61 | 31,83 | 0 | 12 | 20 | 160 | 61,84 | 63,66 | 0 | 20 |
| 21 | 160 | 32,20 | 33,42 | 0 | 12 | 21 | 160 | 65,03 | 66,85 | 0 | 20 |
| 22 | 160 | 33,79 | 35,01 | 0 | 12 | 22 | 160 | 68,21 | 70,03 | 0 | 20 |
| 23 | 160 | 35,39 | 36,61 | 0 | 12 | 23 | 160 | 71,39 | 73,21 | 0 | 20 |
| 24 | 160 | 36,98 | 38,20 | 0 | 12 | 24 | 160 | 74,57 | 76,39 | 0 | 20 |
| 25 | 160 | 38,57 | 39,79 | 0 | 12 | 25 | 160 | 77,76 | 79,58 | 0 | 20 |
| 26 | 160 | 40,16 | 41,38 | 0 | 16 | 26 | 160 | 80,94 | 82,76 | 0 | 20 |
| 27 | 160 | 41,75 | 42,97 | 0 | 16 | 27 | 160 | 84,12 | 85,94 | 0 | 20 |
| 28 | 160 | 43,34 | 44,56 | 0 | 16 | 28 | 160 | 87,31 | 89,13 | 0 | 20 |
| 29 | 160 | 44,93 | 46,15 | 0 | 16 | 29 | 160 | 90,49 | 92,31 | 0 | 20 |

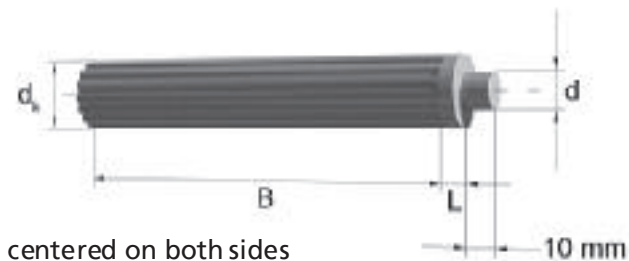
AT profile (AT 5, AT 10)

Pitch and lengths [mm]

| AT 5 | | | | | | AT 10 | | | | | |
|------|-----|----------------|----------------|---|----|-------|-----|----------------|----------------|---|----|
| z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d |
| 30 | 160 | 46,53 | 47,75 | 0 | 16 | 30 | 160 | 93,67 | 95,49 | 0 | 20 |
| 31 | 160 | 48,12 | 49,34 | 0 | 16 | 31 | 160 | 96,86 | 98,68 | 0 | 20 |
| 32 | 160 | 49,71 | 50,93 | 0 | 16 | 32 | 160 | 100,04 | 101,86 | 0 | 20 |
| 33 | 160 | 51,30 | 52,52 | 0 | 16 | 33 | 160 | 103,22 | 105,04 | 0 | 30 |
| 34 | 160 | 52,89 | 54,11 | 0 | 16 | 34 | 160 | 106,41 | 108,23 | 0 | 30 |
| 35 | 160 | 54,48 | 55,70 | 0 | 16 | 35 | 160 | 109,59 | 111,41 | 0 | 30 |
| 36 | 160 | 56,08 | 57,30 | 0 | 16 | 36 | 160 | 112,77 | 114,59 | 0 | 30 |
| 37 | 160 | 57,67 | 58,89 | 0 | 16 | 37 | 160 | 115,95 | 117,77 | 0 | 30 |
| 38 | 160 | 59,26 | 60,48 | 0 | 16 | 38 | 160 | 119,14 | 120,96 | 0 | 30 |
| 39 | 160 | 60,85 | 62,07 | 0 | 20 | 39 | 160 | 122,32 | 124,14 | 0 | 30 |
| 40 | 160 | 62,44 | 63,66 | 0 | 20 | 40 | 160 | 125,50 | 127,32 | 0 | 30 |
| 41 | 160 | 64,03 | 65,25 | 0 | 20 | 41 | 160 | 128,69 | 130,51 | 0 | 30 |
| 42 | 160 | 65,63 | 66,85 | 0 | 20 | 42 | 160 | 131,87 | 133,69 | 0 | 30 |
| 43 | 160 | 67,22 | 68,44 | 0 | 20 | 43 | 160 | 135,05 | 136,87 | 0 | 30 |
| 44 | 160 | 68,81 | 70,03 | 0 | 20 | 44 | 160 | 138,24 | 140,06 | 0 | 30 |
| 45 | 160 | 70,40 | 71,62 | 0 | 20 | 45 | 160 | 141,42 | 143,24 | 0 | 30 |
| 46 | 160 | 71,99 | 73,21 | 0 | 20 | 46 | 160 | 144,60 | 146,42 | 0 | 30 |
| 47 | 160 | 73,58 | 74,80 | 0 | 20 | 47 | 160 | 147,79 | 149,61 | 0 | 30 |
| 48 | 160 | 75,17 | 76,39 | 0 | 20 | 48 | 160 | 150,97 | 152,79 | 0 | 30 |
| 49 | 160 | 76,77 | 77,99 | 0 | 20 | 49 | 160 | 154,15 | 155,97 | 0 | 30 |
| 50 | 160 | 78,36 | 79,58 | 0 | 20 | 50 | 160 | 157,33 | 159,15 | 0 | 30 |
| 51 | 160 | 79,95 | 81,17 | 0 | 20 | 51 | 160 | 160,52 | 162,34 | 0 | 36 |
| 52 | 160 | 81,54 | 82,76 | 0 | 20 | 52 | 160 | 163,70 | 165,52 | 0 | 36 |
| 53 | 160 | 83,13 | 84,35 | 0 | 20 | 53 | 160 | 166,88 | 168,70 | 0 | 36 |
| 54 | 160 | 84,72 | 85,94 | 0 | 20 | 54 | 160 | 170,07 | 171,89 | 0 | 36 |
| 55 | 160 | 86,32 | 87,54 | 0 | 20 | 55 | 160 | 173,25 | 175,07 | 0 | 36 |
| 56 | 160 | 87,91 | 89,13 | 0 | 20 | 56 | 160 | 176,43 | 178,25 | 0 | 36 |
| 57 | 160 | 89,50 | 90,72 | 0 | 20 | 57 | 160 | 179,62 | 181,44 | 0 | 36 |
| 58 | 160 | 91,09 | 92,31 | 0 | 20 | 58 | 160 | 182,80 | 184,62 | 0 | 36 |
| 59 | 160 | 92,68 | 93,90 | 0 | 20 | 59 | 160 | 185,98 | 187,80 | 0 | 36 |
| 60 | 160 | 94,27 | 95,49 | 0 | 20 | 60 | 160 | 189,17 | 190,99 | 0 | 36 |
| 61 | 160 | 95,86 | 97,08 | 0 | 20 | 61 | 160 | 192,35 | 194,17 | 0 | 36 |
| 62 | 160 | 97,46 | 98,68 | 0 | 20 | 62 | 160 | 195,53 | 197,35 | 0 | 36 |
| 63 | 160 | 99,05 | 100,27 | 0 | 20 | 63 | 160 | 198,72 | 200,54 | 0 | 36 |
| 64 | 160 | 100,64 | 101,86 | 0 | 30 | 64 | 160 | 201,90 | 203,72 | 0 | 36 |
| 65 | 160 | 102,23 | 103,45 | 0 | 30 | 65 | 160 | 205,08 | 206,90 | 0 | 36 |
| 66 | 160 | 103,82 | 105,04 | 0 | 30 | 66 | 160 | 208,26 | 210,08 | 0 | 36 |
| 67 | 160 | 105,41 | 106,63 | 0 | 30 | 67 | 160 | 211,45 | 213,27 | 0 | 36 |
| 68 | 160 | 107,01 | 108,23 | 0 | 30 | 68 | 160 | 214,63 | 216,45 | 0 | 36 |
| 69 | 160 | 108,60 | 109,82 | 0 | 30 | 69 | 160 | 217,81 | 219,63 | 0 | 36 |

Synchronising shafts with tensioning tenons

T profile (T 2.5, T 5, T 10)



Order example:

Synchronising shaft **SW** **160** **T10 - 0 / 24**
 Width _____
 Type / Pitch _____
 Toothform variant _____
 No. of teeth _____

Material:
 AlCuMgPb

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (ordering addition: -0)

Pitch and widths [mm]

| T 2,5 | | | | | | T 5 | | | | | | T 10 | | | | | |
|-------|-----|----------------|----------------|----|----|-----|-----|----------------|----------------|---|----|------|-----|----------------|----------------|---|----|
| z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d |
| 15 | 50 | 11,40 | 11,94 | 25 | 6 | 15 | 132 | 23,05 | 23,87 | 8 | 10 | 15 | 160 | 45,90 | 47,75 | 0 | 16 |
| 16 | 50 | 12,20 | 12,73 | 25 | 6 | 16 | 140 | 24,60 | 25,46 | 0 | 10 | 16 | 160 | 49,05 | 50,93 | 0 | 16 |
| 17 | 50 | 13,00 | 13,53 | 25 | 6 | 17 | 140 | 26,20 | 27,06 | 0 | 10 | 17 | 160 | 52,25 | 54,11 | 0 | 16 |
| 18 | 50 | 13,80 | 14,32 | 25 | 6 | 18 | 140 | 27,80 | 28,65 | 0 | 10 | 18 | 160 | 55,45 | 57,30 | 0 | 16 |
| 19 | 90 | 14,60 | 15,12 | 30 | 8 | 19 | 140 | 29,40 | 30,24 | 0 | 10 | 19 | 160 | 58,60 | 60,48 | 0 | 16 |
| 20 | 90 | 15,40 | 15,92 | 30 | 8 | 20 | 160 | 31,00 | 31,83 | 0 | 12 | 20 | 160 | 61,60 | 63,66 | 0 | 20 |
| 21 | 90 | 16,20 | 16,71 | 30 | 8 | 21 | 160 | 32,70 | 33,42 | 0 | 12 | 21 | 160 | 65,00 | 66,85 | 0 | 20 |
| 22 | 90 | 17,00 | 17,51 | 30 | 8 | 22 | 160 | 34,25 | 35,01 | 0 | 12 | 22 | 160 | 68,15 | 70,03 | 0 | 20 |
| 23 | 90 | 17,80 | 18,30 | 30 | 8 | 23 | 160 | 35,85 | 36,61 | 0 | 12 | 23 | 160 | 71,35 | 73,21 | 0 | 20 |
| 24 | 125 | 18,55 | 19,10 | 15 | 10 | 24 | 160 | 37,40 | 38,20 | 0 | 12 | 24 | 160 | 74,55 | 76,39 | 0 | 20 |
| 25 | 125 | 19,35 | 19,89 | 15 | 10 | 25 | 160 | 39,00 | 39,79 | 0 | 12 | 25 | 160 | 77,75 | 79,58 | 0 | 20 |
| 26 | 125 | 20,15 | 20,69 | 15 | 10 | 26 | 160 | 40,60 | 41,38 | 0 | 16 | 26 | 160 | 80,90 | 82,76 | 0 | 20 |
| 27 | 125 | 20,95 | 21,49 | 15 | 10 | 27 | 160 | 42,20 | 42,97 | 0 | 16 | 27 | 160 | 84,10 | 85,94 | 0 | 20 |
| 28 | 125 | 21,75 | 22,28 | 15 | 10 | 28 | 160 | 43,75 | 44,56 | 0 | 16 | 28 | 160 | 87,25 | 89,13 | 0 | 20 |
| 29 | 125 | 22,55 | 23,08 | 15 | 10 | 29 | 160 | 45,35 | 46,15 | 0 | 16 | 29 | 160 | 90,45 | 92,31 | 0 | 20 |

T profile (T 2.5, T 5, T 10)

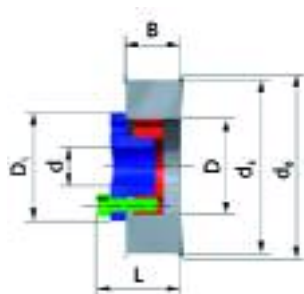
Pitch and lengths [mm]

| T 2,5 | | | | | | T 5 | | | | | | T 10 | | | | | |
|-------|-----|----------------|----------------|----|----|-----|-----|----------------|----------------|---|----|------|-----|----------------|----------------|---|----|
| z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d | z | B | d _k | d ₀ | L | d |
| 30 | 125 | 23,35 | 23,87 | 15 | 10 | 30 | 160 | 46,90 | 47,75 | 0 | 16 | 30 | 160 | 93,65 | 95,49 | 0 | 20 |
| 31 | 125 | 24,15 | 24,67 | 15 | 10 | 31 | 160 | 48,50 | 49,34 | 0 | 16 | 31 | 160 | 96,80 | 98,68 | 0 | 20 |
| 32 | 125 | 24,95 | 25,46 | 15 | 10 | 32 | 160 | 50,10 | 50,93 | 0 | 16 | 32 | 160 | 100,00 | 101,86 | 0 | 20 |
| 33 | 125 | 25,75 | 26,26 | 15 | 10 | 33 | 160 | 51,70 | 52,52 | 0 | 16 | 33 | 160 | 103,20 | 105,04 | 0 | 30 |
| 34 | 125 | 26,55 | 27,06 | 15 | 10 | 34 | 160 | 53,30 | 54,11 | 0 | 16 | 34 | 160 | 106,35 | 108,23 | 0 | 30 |
| 35 | 132 | 27,35 | 27,85 | 8 | 10 | 35 | 160 | 54,85 | 55,70 | 0 | 16 | 35 | 160 | 109,55 | 111,41 | 0 | 30 |
| 36 | 132 | 28,15 | 28,65 | 8 | 10 | 36 | 160 | 56,45 | 57,30 | 0 | 16 | 36 | 160 | 112,75 | 114,59 | 0 | 30 |
| 37 | 132 | 28,90 | 29,44 | 8 | 10 | 37 | 160 | 58,05 | 58,89 | 0 | 16 | 37 | 160 | 115,90 | 117,77 | 0 | 30 |
| 38 | 132 | 29,70 | 30,24 | 8 | 10 | 38 | 160 | 59,65 | 60,48 | 0 | 16 | 38 | 160 | 119,10 | 120,96 | 0 | 30 |
| 39 | 132 | 30,50 | 31,04 | 8 | 10 | 39 | 160 | 61,25 | 62,07 | 0 | 20 | 39 | 160 | 122,30 | 124,14 | 0 | 30 |
| 40 | 132 | 31,30 | 31,83 | 8 | 12 | 40 | 160 | 62,85 | 63,66 | 0 | 20 | 40 | 160 | 125,45 | 127,32 | 0 | 30 |
| 41 | 132 | 32,10 | 32,63 | 8 | 12 | 41 | 160 | 64,40 | 65,25 | 0 | 20 | 41 | 160 | 128,65 | 130,51 | 0 | 30 |
| 42 | 140 | 32,90 | 33,42 | 0 | 12 | 42 | 160 | 66,00 | 66,85 | 0 | 20 | 42 | 160 | 131,85 | 133,69 | 0 | 30 |
| 43 | 140 | 33,70 | 34,22 | 0 | 12 | 43 | 160 | 67,60 | 68,44 | 0 | 20 | 43 | 160 | 135,00 | 136,87 | 0 | 30 |
| 44 | 140 | 34,50 | 35,01 | 0 | 12 | 44 | 160 | 69,20 | 70,03 | 0 | 20 | 44 | 160 | 138,20 | 140,06 | 0 | 30 |
| 45 | 140 | 35,30 | 35,81 | 0 | 12 | 45 | 160 | 70,80 | 71,62 | 0 | 20 | 45 | 160 | 141,40 | 143,24 | 0 | 30 |
| 46 | 140 | 36,10 | 36,61 | 0 | 12 | 46 | 160 | 72,40 | 73,21 | 0 | 20 | 46 | 160 | 144,50 | 146,42 | 0 | 30 |
| 47 | 140 | 36,90 | 37,40 | 0 | 12 | 47 | 160 | 73,95 | 74,80 | 0 | 20 | 47 | 160 | 147,75 | 149,61 | 0 | 30 |
| 48 | 140 | 37,70 | 38,20 | 0 | 12 | 48 | 160 | 75,55 | 76,39 | 0 | 20 | 48 | 160 | 150,95 | 152,79 | 0 | 30 |
| 49 | 140 | 38,45 | 38,99 | 0 | 12 | 49 | 160 | 77,15 | 77,99 | 0 | 20 | 49 | 160 | 154,10 | 155,97 | 0 | 30 |
| 50 | 140 | 39,25 | 39,79 | 0 | 12 | 50 | 160 | 78,75 | 79,58 | 0 | 20 | 50 | 160 | 157,30 | 159,15 | 0 | 30 |
| 51 | 140 | 40,05 | 40,58 | 0 | 12 | 51 | 160 | 80,35 | 81,17 | 0 | 20 | 51 | 160 | 160,50 | 162,34 | 0 | 36 |
| 52 | 140 | 40,85 | 41,38 | 0 | 16 | 52 | 160 | 81,95 | 82,76 | 0 | 20 | 52 | 160 | 163,65 | 165,52 | 0 | 36 |
| 53 | 140 | 41,65 | 42,18 | 0 | 16 | 53 | 160 | 83,55 | 84,35 | 0 | 20 | 53 | 160 | 166,85 | 168,70 | 0 | 36 |
| 54 | 140 | 42,45 | 42,97 | 0 | 16 | 54 | 160 | 85,10 | 85,94 | 0 | 20 | 54 | 160 | 170,05 | 171,89 | 0 | 36 |
| 55 | 140 | 43,25 | 43,77 | 0 | 16 | 55 | 160 | 86,70 | 87,54 | 0 | 20 | 55 | 160 | 173,20 | 175,07 | 0 | 36 |
| 56 | 140 | 44,05 | 44,56 | 0 | 16 | 56 | 160 | 88,30 | 89,13 | 0 | 20 | 56 | 160 | 176,40 | 178,25 | 0 | 36 |
| 57 | 140 | 44,85 | 45,36 | 0 | 16 | 57 | 160 | 89,90 | 90,72 | 0 | 20 | 57 | 160 | 179,60 | 181,44 | 0 | 36 |
| 58 | 140 | 45,65 | 46,15 | 0 | 16 | 58 | 160 | 91,50 | 92,31 | 0 | 20 | 58 | 160 | 182,75 | 184,62 | 0 | 36 |
| 59 | 140 | 46,45 | 46,95 | 0 | 16 | 59 | 160 | 93,10 | 93,90 | 0 | 20 | 59 | 160 | 185,95 | 187,80 | 0 | 36 |
| 60 | 140 | 47,25 | 47,75 | 0 | 16 | 60 | 160 | 94,65 | 95,49 | 0 | 20 | 60 | 160 | 189,15 | 190,99 | 0 | 36 |
| 61 | 140 | 48,05 | 48,54 | 0 | 16 | 61 | 160 | 96,25 | 97,08 | 0 | 20 | 61 | 160 | 192,30 | 194,17 | 0 | 36 |
| 62 | 140 | 48,80 | 49,34 | 0 | 16 | 62 | 160 | 97,85 | 98,68 | 0 | 20 | 62 | 160 | 195,50 | 197,35 | 0 | 36 |
| 63 | 140 | 49,60 | 50,13 | 0 | 16 | 63 | 160 | 99,45 | 100,27 | 0 | 20 | 63 | 160 | 198,70 | 200,54 | 0 | 36 |
| 64 | 140 | 50,40 | 50,93 | 0 | 16 | 64 | 160 | 101,05 | 101,86 | 0 | 30 | 64 | 160 | 201,85 | 203,72 | 0 | 36 |
| 65 | 140 | 51,20 | 51,37 | 0 | 16 | 65 | 160 | 102,65 | 103,45 | 0 | 30 | 65 | 160 | 205,05 | 206,90 | 0 | 36 |
| 66 | 140 | 52,00 | 52,52 | 0 | 16 | 66 | 160 | 104,20 | 105,04 | 0 | 30 | 66 | 160 | 208,25 | 210,08 | 0 | 36 |
| 67 | 140 | 52,80 | 53,32 | 0 | 16 | 67 | 160 | 105,80 | 106,63 | 0 | 30 | 67 | 160 | 211,40 | 213,27 | 0 | 36 |
| 68 | 140 | 53,60 | 54,11 | 0 | 16 | 68 | 160 | 107,40 | 108,23 | 0 | 30 | 68 | 160 | 214,60 | 216,45 | 0 | 36 |
| 69 | 140 | 54,40 | 54,91 | 0 | 16 | 69 | 160 | 109,00 | 109,82 | 0 | 30 | 69 | 160 | 217,80 | 219,63 | 0 | 36 |

Synchronising pulleys with tensioners

Tensioner AT 10 / T 10

Preferred delivery range for belt width 25 mm



belt width: 25 mm

Pulley width B: 32 mm

Number of flanges: as required 0 - 1 - 2

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (ordering addition: -0)

Order example:

Mulco-tensioners 32 AT10 -0 / 27 - 2 x 15
 Pulley width _____
 Type / Pitch* _____
 Tooth variant _____
 No. of teeth _____
 No. of flanges _____
 Shaft diameter d _____

*according to T10

Materials:

Synchronising pulley: AlCuMgPb
 Tensioner: St

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 20 | 61,84 | 61,81 | 68 |
| 21 | 65,02 | 64,99 | 70 |
| 22 | 68,21 | 68,18 | 74 |
| 23 | 71,39 | 71,36 | 76 |
| 24 | 74,57 | 74,54 | 80 |
| 25 | 77,76 | 77,73 | 82 |
| 26 | 80,94 | 80,91 | 86 |
| 27 | 84,12 | 84,09 | 90 |
| 28 | 87,31 | 87,28 | 93 |
| 29 | 90,49 | 90,46 | 96 |
| 30 | 93,67 | 93,64 | 99 |
| 31 | 96,86 | 96,83 | 103 |
| 32 | 100,04 | 100,01 | 105 |
| 33 | 103,22 | 103,19 | 110 |
| 34 | 106,41 | 106,38 | 113 |
| 35 | 109,59 | 109,56 | 115 |
| 36 | 112,77 | 112,74 | 118 |
| 37 | 115,95 | 115,92 | 121 |
| 38 | 119,14 | 119,11 | 126 |
| 39 | 122,32 | 122,29 | 129 |
| 40 | 125,50 | 125,47 | 131 |

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 41 | 128,69 | 128,66 | 134 |
| 42 | 131,87 | 131,84 | 137 |
| 43 | 135,05 | 135,02 | 140 |
| 44 | 138,24 | 138,21 | 145 |
| 45 | 141,42 | 141,39 | 148 |
| 46 | 144,60 | 144,57 | 150 |
| 47 | 147,79 | 147,76 | 153 |
| 48 | 150,97 | 150,94 | 156 |
| 49 | 154,15 | 154,12 | 161 |
| 50 | 157,33 | 157,30 | 164 |
| 51 | 160,52 | 160,49 | 166 |
| 52 | 163,70 | 163,67 | 169 |
| 53 | 166,88 | 166,85 | 172 |
| 54 | 170,07 | 170,04 | 177 |
| 55 | 173,25 | 173,22 | 179 |
| 56 | 176,43 | 176,40 | 182 |
| 57 | 179,62 | 179,59 | 185 |
| 58 | 182,80 | 182,77 | 188 |
| 59 | 185,98 | 185,95 | 191 |
| 60 | 189,17 | 189,14 | 195 |

| | | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| d | 14 | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| D ₁ | 38 | 44 | 44 | 47 | 48 | 49 | 54 | 56 | 56 | 61 | 62 | 65 | 69 | 72 | 75 | 78 |

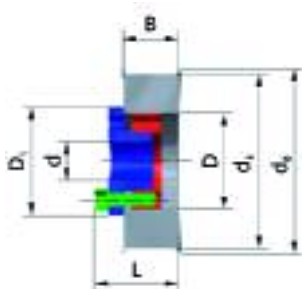
Total length L in dependance of d and z Tensioner AT10 / T10
Preferred delivery range for belt width 25 mm

| Number of teeth z | Shaft diameter d | | | | | | | | | | | | | | | |
|-------------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 14 | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| 20 | 36 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 21 | 36 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 22 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 23 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 24 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | - | - | - | - | - | - |
| 25 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | - | - | - | - | - |
| 26 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | - | - | - | - | - |
| 27 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 28 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 29 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 30 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | - | - | - |
| 31 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | - | - | - |
| 32 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | - |
| 33 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 34 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 35 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 36 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 37 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 38 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 39 | - | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 40 | - | - | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 41 | - | - | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 42 | - | - | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 43 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 44 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 45 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 46 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 47 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 48 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 49 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 50 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 51 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 52 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 53 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 54 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 55 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 56 | - | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 57 | - | - | - | - | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 58 | - | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 59 | - | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 60 | - | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |

Synchronising pulleys with tensioners

Tensioner AT 10 / T 10

Preferred delivery range for belt width 32 mm



belt width: 32 mm

Pulley width B: 40 mm

Number of flanges: as required 0 - 1 - 2

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (ordering addition: -0)

Order example:

Mulco-tensioners 40 AT10 -0 / 27 - 2 x 15
 Pulley width _____
 Type / Pitch* _____
 Tooth variant _____
 No. of teeth _____
 No. of flanges _____
 Shaft diameter d _____

*according to T10

Materials:

Synchronising pulley: AlCuMgPb

Tensioner: St

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 20 | 61,84 | 61,81 | 68 |
| 21 | 65,02 | 64,99 | 70 |
| 22 | 68,21 | 68,18 | 74 |
| 23 | 71,39 | 71,36 | 76 |
| 24 | 74,57 | 74,54 | 80 |
| 25 | 77,76 | 77,73 | 82 |
| 26 | 80,94 | 80,91 | 86 |
| 27 | 84,12 | 84,09 | 90 |
| 28 | 87,31 | 87,28 | 93 |
| 29 | 90,49 | 90,46 | 96 |
| 30 | 93,67 | 93,64 | 99 |
| 31 | 96,86 | 96,83 | 103 |
| 32 | 100,04 | 100,01 | 105 |
| 33 | 103,22 | 103,19 | 110 |
| 34 | 106,41 | 106,38 | 113 |
| 35 | 109,59 | 109,56 | 115 |
| 36 | 112,77 | 112,74 | 118 |
| 37 | 115,95 | 115,92 | 121 |
| 38 | 119,14 | 119,11 | 126 |
| 39 | 122,32 | 122,29 | 129 |
| 40 | 125,50 | 125,47 | 131 |

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 41 | 128,69 | 128,66 | 134 |
| 42 | 131,87 | 131,84 | 137 |
| 43 | 135,05 | 135,02 | 140 |
| 44 | 138,24 | 138,21 | 145 |
| 45 | 141,42 | 141,39 | 148 |
| 46 | 144,60 | 144,57 | 150 |
| 47 | 147,79 | 147,76 | 153 |
| 48 | 150,97 | 150,94 | 156 |
| 49 | 154,15 | 154,12 | 161 |
| 50 | 157,33 | 157,30 | 164 |
| 51 | 160,52 | 160,49 | 166 |
| 52 | 163,70 | 163,67 | 169 |
| 53 | 166,88 | 166,85 | 172 |
| 54 | 170,07 | 170,04 | 177 |
| 55 | 173,25 | 173,22 | 179 |
| 56 | 176,43 | 176,40 | 182 |
| 57 | 179,62 | 179,59 | 185 |
| 58 | 182,80 | 182,77 | 188 |
| 59 | 185,98 | 185,95 | 191 |
| 60 | 189,17 | 189,14 | 195 |

| | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| d | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| D ₁ | 44 | 44 | 47 | 48 | 49 | 54 | 56 | 56 | 61 | 62 | 65 | 69 | 72 | 75 | 78 |

Tensioner AT10 / T10

Total length L in dependence of d and z

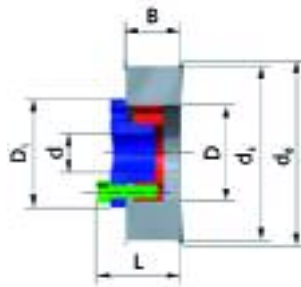
Preferred delivery range for belt width 32 mm

| Number of teeth z | Shaft diameter d | | | | | | | | | | | | | | |
|-------------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| 20 | 46 | 46 | 46 | 46 | 46 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 21 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 22 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 23 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | - | - | - | - | - | - | - |
| 24 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | - | - | - | - | - | - |
| 25 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | - | - | - | - | - |
| 26 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | - | - | - | - | - |
| 27 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 28 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 29 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | - | - | - | - |
| 30 | 42 | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | - | - | - |
| 31 | - | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | - | - | - |
| 32 | - | 42 | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | - |
| 33 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 34 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 35 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 36 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 37 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 38 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 39 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 40 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 41 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 42 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 43 | - | - | 44 | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 44 | - | - | - | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 45 | - | - | - | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 46 | - | - | - | 44 | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 47 | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 48 | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 49 | - | - | - | - | 44 | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 50 | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 51 | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 52 | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 53 | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 54 | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 55 | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 56 | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 57 | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 58 | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 59 | - | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |
| 60 | - | - | - | - | - | - | - | 51 | 51 | 51 | 51 | 56 | 56 | 56 | 58 |

Synchronising pulleys with tensioners

Tensioner AT 10 / T 10

Preferred delivery range for belt width 50 mm



belt width: 50 mm

Pulley width B: 56 mm

Number of flanges: as required 0 - 1 - 2

Tooth gaps:

- Normal gap (Standard, without ordering addition),
- SE gap (ordering addition: SE),
- Zero gap (ordering addition: -0)

Order example:

Mulco-tensioners 56 AT10 -0 / 27 - 2 x 15
 Pulley width _____
 Type / Pitch* _____
 Tooth variant _____
 No. of teeth _____
 No. of flanges _____
 Shaft diameter d _____

*according to T10

Materials:

Synchronising pulley: AlCuMgPb

Tensioner: St

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 20 | 61,84 | 61,81 | 68 |
| 21 | 65,02 | 64,99 | 70 |
| 22 | 68,21 | 68,18 | 74 |
| 23 | 71,39 | 71,36 | 76 |
| 24 | 74,57 | 74,54 | 80 |
| 25 | 77,76 | 77,73 | 82 |
| 26 | 80,94 | 80,91 | 86 |
| 27 | 84,12 | 84,09 | 90 |
| 28 | 87,31 | 87,28 | 93 |
| 29 | 90,49 | 90,46 | 96 |
| 30 | 93,67 | 93,64 | 99 |
| 31 | 96,86 | 96,83 | 103 |
| 32 | 100,04 | 100,01 | 105 |
| 33 | 103,22 | 103,19 | 110 |
| 34 | 106,41 | 106,38 | 113 |
| 35 | 109,59 | 109,56 | 115 |
| 36 | 112,77 | 112,74 | 118 |
| 37 | 115,95 | 115,92 | 121 |
| 38 | 119,14 | 119,11 | 126 |
| 39 | 122,32 | 122,29 | 129 |
| 40 | 125,50 | 125,47 | 131 |

| z | AT 10 d _k | T 10 d _k | d _B |
|----|-------------------------|------------------------|----------------|
| 41 | 128,69 | 128,66 | 134 |
| 42 | 131,87 | 131,84 | 137 |
| 43 | 135,05 | 135,02 | 140 |
| 44 | 138,24 | 138,21 | 145 |
| 45 | 141,42 | 141,39 | 148 |
| 46 | 144,60 | 144,57 | 150 |
| 47 | 147,79 | 147,76 | 153 |
| 48 | 150,97 | 150,94 | 156 |
| 49 | 154,15 | 154,12 | 161 |
| 50 | 157,33 | 157,30 | 164 |
| 51 | 160,52 | 160,49 | 166 |
| 52 | 163,70 | 163,67 | 169 |
| 53 | 166,88 | 166,85 | 172 |
| 54 | 170,07 | 170,04 | 177 |
| 55 | 173,25 | 173,22 | 179 |
| 56 | 176,43 | 176,40 | 182 |
| 57 | 179,62 | 179,59 | 185 |
| 58 | 182,80 | 182,77 | 188 |
| 59 | 185,98 | 185,95 | 191 |
| 60 | 189,17 | 189,14 | 195 |

| | | | | | | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| d | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| D ₁ | 44 | 44 | 47 | 48 | 49 | 54 | 56 | 56 | 61 | 62 | 65 | 69 | 72 | 75 | 78 |

Tensioner AT10 / T10

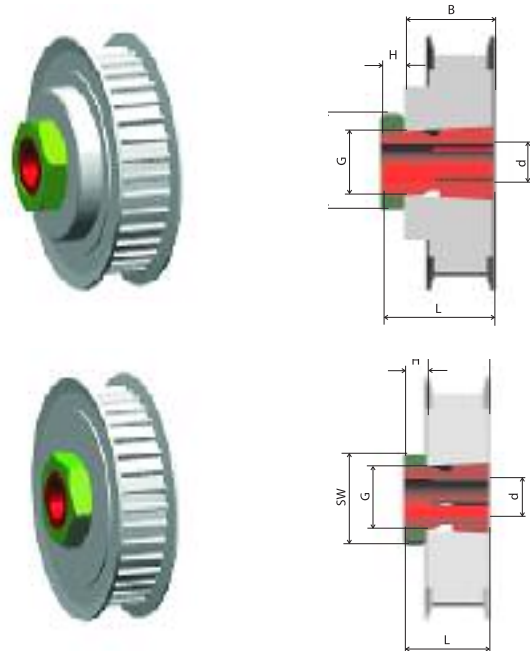
Total length L in dependance of d and z

Preferred delivery range for belt width 50 mm

| Number of teeth z | Shaft diameter d | | | | | | | | | | | | | | |
|-------------------|------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 15 | 16 | 18 | 19 | 20 | 22 | 24 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 42 |
| 20 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - | - | - |
| 21 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - | - | - |
| 22 | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - | - | - |
| 23 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - | - | - |
| 24 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - | - |
| 25 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - |
| 26 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - | - |
| 27 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - |
| 28 | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - |
| 29 | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - | - |
| 30 | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - |
| 31 | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - | - | - |
| 32 | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | - |
| 33 | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 34 | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 35 | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 36 | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 37 | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 38 | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 39 | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 40 | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 41 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 42 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 43 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 44 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 45 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 46 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 47 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 48 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 49 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 50 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 51 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 52 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 53 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 54 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 55 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 56 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 57 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 58 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 59 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 60 | - | - | - | - | - | - | - | - | 62 | 62 | 62 | 62 | 62 | 62 | 62 |

Synchronising pulleys with tensioners

ATEF-X
for the timing pulley program in stock
up to pitch 5



Reliability

The locking characteristics of the frictional shaft/pulley connection provided by ATEF-X guarantee a high level of reliability in power transmission systems by preventing unintentional disengagement of the shaft and hub. This advantage is particularly important in modern linear drive systems which are frequently subjected to extreme load alternations. The precise concentricity of drive components connected with ATEF-X means that loads and stresses on individual components such as timing pulleys, toothed belts and bearings are reduced to a minimum so that the belt drive runs more quietly and smoothly. ATEF-X is produced with a concentricity precision of 0,01 mm.

Speediness

The pre-assembled unit comprised of timing pulley and ATEF-X is simply slipped onto the shaft. After alignment with the other power transmission components, the single locking nut is tightened to provide an unfailing shaft/pulley connection. Shaft surfaces are not damaged by ATEF-X, and precise axial readjustment of the hub is possible at all times if required. ATEF-X is also easy to disassemble, even after long-term use under the most extreme conditions.

As the shaft/pulley connection is created merely by tightening just one locking nut, valuable assembly

Order example

ATEF-X-tensioner 28 AT5 / 27 - 2 x 15
 Pulley width _____
 Type / Pitch _____
 Number of teeth _____
 Number of flanges _____
 Shaft diameter _____

Please inform us about hub dimension if necessary.

Material:

Timing pulley: AlCuMgPb
 Tensioner: 1.4305
 Locking nut: steel, zincd

Assembly position is principally a matter of choice. In standard assembly, it is usual to mount the threaded bushing opposite the hub (locking nut on the hub-side).

time is saved. In practice other locking devices are often damaged during assembly and must be replaced. This is usually because of the delicate locking screws.

With ATEF-X, technicians always feel at ease, as they working with familiar forces and need not fear breaking off the thread locking screws.

Flexibility

Precise axial positioning of the timing pulley along the shaft is unlimited and is not restricted to assembly on the outer shaft extension.

Reduced space requirements

ATEF-X can be installed completely inside the timing pulley without increasing its external space requirements. This feature is of particular advantage whenever the space for mounting the locking device in the gearcase or inside the housing of the power transmission components is extremely limited. Due to its compactness and its simple design, ATEF-X can also be used in small-sized timing pulleys.

No fretting corrosion

The use of stainless steel protects ATEF-X from fretting corrosion.

Legend:

- d: Shaft diameter
- B: max. pulley width
- L: Total length locking device
- G: Thread to DIN ISO
- SW: Wrench width fo locking nut
- H: Hight of locking nut
- AM: Tightening torque
- M: Torque
- SF: Shearing force (axial)
- DF: Compressive force (hub / shaft)
- X: No. locking device = order number

ATEF-X
for the timing pulley program in stock
up to pitch 5

| Locking device | | | Locking nut (DIN 439-ISO 8675) (2) | | | | Transmission values (1) | | |
|----------------|-------|-------|------------------------------------|----|-------|-------|-------------------------|-------|-------------------|
| d | B | L | G | SW | H | AM | M | SF | DF |
| mm | mm | mm | M (x) | mm | mm | Nm | Nm | kN | N/mm ² |
| 5,00 | 16,00 | 18,80 | M 8 x 1,00 | 13 | 3,80 | 5,32 | 6,64 | 2,19 | 55,12 |
| 5,00 | 22,00 | 24,80 | M 8 x 1,00 | 13 | 3,80 | 5,32 | 6,64 | 2,19 | 55,12 |
| 6,00 | 16,00 | 21,50 | M 10 x 1,00 | 17 | 5,00 | 7,84 | 11,64 | 3,23 | 55,93 |
| 6,00 | 22,00 | 26,00 | M 10 x 1,00 | 17 | 5,00 | 7,84 | 11,64 | 3,23 | 55,93 |
| 6,35 | 16,00 | 21,50 | M 10 x 1,00 | 17 | 5,00 | 8,31 | 12,32 | 3,42 | 59,20 |
| 6,35 | 22,00 | 26,00 | M 10 x 1,00 | 17 | 5,00 | 8,31 | 12,32 | 3,42 | 59,20 |
| 7,00 | 16,00 | 21,50 | M 10 x 1,00 | 17 | 5,00 | 9,15 | 13,58 | 3,77 | 65,25 |
| 7,00 | 22,00 | 26,00 | M 10 x 1,00 | 17 | 5,00 | 9,15 | 13,58 | 3,77 | 65,25 |
| 8,00 | 16,00 | 21,50 | M 12 x 1,25 | 19 | 6,00 | 8,52 | 15,48 | 3,51 | 60,72 |
| 8,00 | 22,00 | 26,00 | M 12 x 1,25 | 19 | 6,00 | 8,52 | 15,48 | 3,51 | 60,72 |
| 9,00 | 16,00 | 21,50 | M 14 x 1,50 | 22 | 7,00 | 9,66 | 20,85 | 3,98 | 57,44 |
| 9,00 | 22,00 | 26,80 | M 14 x 1,50 | 22 | 7,00 | 9,66 | 20,85 | 3,98 | 57,44 |
| 9,53 | 16,00 | 21,50 | M 14 x 1,50 | 22 | 7,00 | 10,22 | 22,06 | 4,21 | 60,79 |
| 9,53 | 22,00 | 26,80 | M 14 x 1,50 | 22 | 7,00 | 15,27 | 32,48 | 6,29 | 61,80 |
| 10,00 | 16,00 | 21,50 | M 14 x 1,50 | 22 | 7,00 | 10,73 | 23,16 | 4,42 | 63,82 |
| 10,00 | 22,00 | 26,80 | M 14 x 1,50 | 22 | 7,00 | 16,03 | 34,10 | 6,60 | 64,88 |
| 10,00 | 30,00 | 35,80 | M 14 x 1,50 | 22 | 7,00 | 18,43 | 38,91 | 7,59 | 65,33 |
| 11,00 | 16,00 | 21,50 | M 16 x 1,50 | 24 | 8,00 | 19,38 | 46,98 | 7,98 | 89,70 |
| 11,00 | 22,00 | 26,80 | M 16 x 1,50 | 24 | 8,00 | 19,74 | 47,43 | 8,13 | 70,68 |
| 11,00 | 30,00 | 36,90 | M 16 x 1,50 | 24 | 8,00 | 19,74 | 47,43 | 8,13 | 70,68 |
| 12,00 | 16,00 | 21,50 | M 16 x 1,50 | 24 | 8,00 | 21,13 | 51,25 | 8,70 | 97,86 |
| 12,00 | 22,00 | 26,80 | M 16 x 1,50 | 24 | 8,00 | 25,25 | 60,71 | 10,40 | 90,47 |
| 12,00 | 30,00 | 36,90 | M 16 x 1,50 | 24 | 8,00 | 25,25 | 60,71 | 10,40 | 90,47 |
| 13,00 | 16,00 | 24,80 | M 20 x 1,50 | 30 | 10,00 | 18,33 | 57,95 | 7,55 | 56,77 |
| 13,00 | 22,00 | 32,00 | M 20 x 1,50 | 30 | 10,00 | 23,65 | 74,16 | 9,74 | 57,19 |
| 13,00 | 30,00 | 40,85 | M 20 x 1,50 | 30 | 10,00 | 32,86 | 101,61 | 13,53 | 58,05 |

Synchronising pulleys with tensioners

ATEF-X

for the timing pulley program in stock
up to pitch 5

Continuation of the table from page 331

| Locking device | | | Locking nut (DIN 439-ISO 8675) (2) | | | | Transmission values (1) | | |
|----------------|-------|-------|------------------------------------|----|-------|-------|-------------------------|-------|-------------------|
| d | B | L | G | SW | H | AM | M | SF | DF |
| mm | mm | mm | M (x) | mm | mm | Nm | Nm | kN | N/mm ² |
| 14,00 | 16,00 | 24,80 | M 20 x 1,50 | 30 | 10,00 | 19,74 | 62,41 | 8,13 | 61,13 |
| 14,00 | 22,00 | 32,00 | M 20 x 1,50 | 30 | 10,00 | 25,47 | 79,87 | 10,49 | 61,59 |
| 14,00 | 30,00 | 40,85 | M 20 x 1,50 | 30 | 10,00 | 35,38 | 109,42 | 14,57 | 62,52 |
| 15,00 | 16,00 | 24,80 | M 20 x 1,50 | 30 | 10,00 | 21,15 | 66,87 | 8,71 | 65,50 |
| 15,00 | 22,00 | 32,00 | M 20 x 1,50 | 30 | 10,00 | 27,29 | 85,57 | 11,24 | 65,99 |
| 15,00 | 30,00 | 40,85 | M 20 x 1,50 | 30 | 10,00 | 37,91 | 117,24 | 15,61 | 66,98 |
| 16,00 | 16,00 | 24,80 | M 20 x 1,50 | 30 | 10,00 | 22,56 | 71,33 | 9,29 | 69,87 |
| 16,00 | 22,00 | 32,00 | M 20 x 1,50 | 30 | 10,00 | 29,12 | 91,28 | 11,99 | 70,39 |
| 16,00 | 30,00 | 40,85 | M 20 x 1,50 | 30 | 10,00 | 40,43 | 125,06 | 16,65 | 71,45 |
| 17,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 28,39 | 130,36 | 11,69 | 50,30 |
| 17,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 34,85 | 159,24 | 14,35 | 51,07 |
| 17,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 45,09 | 204,51 | 18,57 | 51,76 |
| 18,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 30,04 | 138,02 | 12,37 | 53,26 |
| 18,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 36,89 | 168,61 | 15,19 | 54,08 |
| 18,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 47,74 | 216,54 | 19,66 | 54,81 |
| 19,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 31,71 | 145,69 | 13,06 | 56,22 |
| 19,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 38,93 | 177,97 | 16,03 | 57,08 |
| 19,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 50,39 | 228,57 | 20,75 | 57,85 |
| 20,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 33,39 | 153,36 | 13,75 | 59,18 |
| 20,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 40,99 | 187,34 | 16,88 | 60,08 |
| 20,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 53,06 | 240,60 | 21,85 | 60,90 |
| 21,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 35,07 | 161,03 | 14,44 | 62,14 |
| 21,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 43,03 | 196,71 | 17,72 | 63,09 |
| 21,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 55,71 | 252,94 | 22,94 | 63,94 |
| 22,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 36,72 | 168,70 | 15,12 | 65,09 |
| 22,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 45,07 | 206,07 | 18,56 | 66,09 |
| 22,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 58,35 | 264,66 | 24,03 | 66,99 |
| 24,00 | 16,00 | 33,30 | M 30 x 1,50 | 46 | 15,00 | 40,07 | 184,03 | 16,50 | 71,01 |
| 24,00 | 22,00 | 38,40 | M 30 x 1,50 | 46 | 15,00 | 49,17 | 224,81 | 20,25 | 72,10 |
| 24,00 | 30,00 | 46,00 | M 30 x 1,50 | 46 | 15,00 | 63,67 | 288,72 | 26,22 | 73,08 |

ATEF-X for the timing pulley program in stock up to pitch 5

| Locking device | | | Locking nut (DIN 439-ISO 8675) (2) | | | | Transmission values (1) | | |
|----------------|-------|-------|------------------------------------|----|-------|--------|-------------------------|-------|-------------------|
| d | B | L | G | SW | H | AM | M | SF | DF |
| mm | mm | mm | M(x) | mm | mm | Nm | Nm | kN | N/mm ² |
| 25,00 | 22,00 | 40,00 | M 36 x 1,50 | 55 | 18,00 | 52,19 | 311,96 | 21,49 | 57,25 |
| 25,00 | 30,00 | 48,50 | M 36 x 1,50 | 55 | 18,00 | 74,84 | 443,15 | 30,82 | 57,84 |
| 25,00 | 45,00 | 64,50 | M 36 x 1,50 | 55 | 18,00 | 90,26 | 531,10 | 37,17 | 58,15 |
| 28,00 | 22,00 | 40,00 | M 36 x 1,50 | 55 | 18,00 | 58,45 | 349,39 | 24,07 | 64,12 |
| 28,00 | 30,00 | 48,50 | M 36 x 1,50 | 55 | 18,00 | 83,80 | 496,33 | 34,51 | 64,78 |
| 28,00 | 45,00 | 64,50 | M 36 x 1,50 | 55 | 18,00 | 101,09 | 594,84 | 41,63 | 65,13 |
| 30,00 | 22,00 | 40,00 | M 36 x 1,50 | 55 | 18,00 | 62,63 | 374,35 | 25,79 | 68,70 |
| 30,00 | 30,00 | 48,50 | M 36 x 1,50 | 55 | 18,00 | 89,80 | 531,78 | 36,98 | 69,41 |
| 30,00 | 45,00 | 64,50 | M 36 x 1,50 | 55 | 18,00 | 108,31 | 637,32 | 44,60 | 69,78 |

ATEF-X locking devices in other designs, dimensions and materials are available on request.

- (1) The transmission values given in the tables are based on the combination of steel shaft an aluminium pulley, and take the lower yielding point (Rp) of the pulley material into account. The values for surface pressure are based on the assumptions for dynamic loads.

The tightening torque values for the locking nut are recommended values and lie in the lower ranges. The transmission values are approximate values as the actual performance data can be influenced by factors beyond our control, such as shaft and pulley materials, the condition of the shaft surface and hub boring, rated production tolerance values, wheel body length, tightening torque for the locking nut etc.

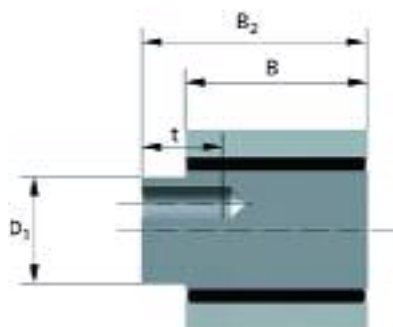
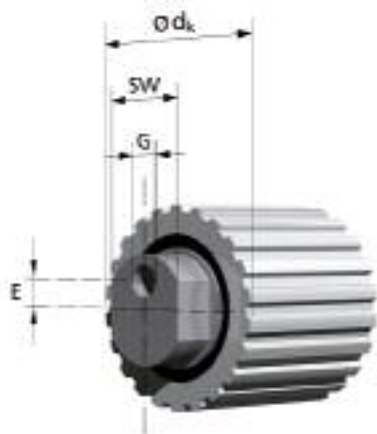
The data provided here are intendend as product descriptions and are not guaranteed characteristic values in a legal sense. Claims for damages against us – regardless of the legal background – are excluded, with the exception of intent or negligence on our part.

We reserve the right to make changes, omissions or possible errors, as well as technical amendments in the interests of product development.

- (2) ATEF-X locking devices are delivered as a standard with galvanised hexagon nuts (1.0718) to DIN 439, DIN 936 or similar. On request, nuts made of stainless steel or other materials can be delivered at an extra charge.

Tension rollers

Storage program Type B with excenter Teeth on the running surface



Type B/E0

The Mulco tension rollers B are seated twice on grooved roller bearings. The bearings are greased for life. Permanent temperatures of 70°C and under will not lead to a reduced useful life of the grease. Short-term temperatures up to 120°C are permitted.

Materials

Axis: St
Running roller: Al

Order example:

Mulco-tension roller B Al34 T5 / 22 - 0
 Width B _____
 Type / Pitch _____
 No. of teeth _____
 No. of flanges _____

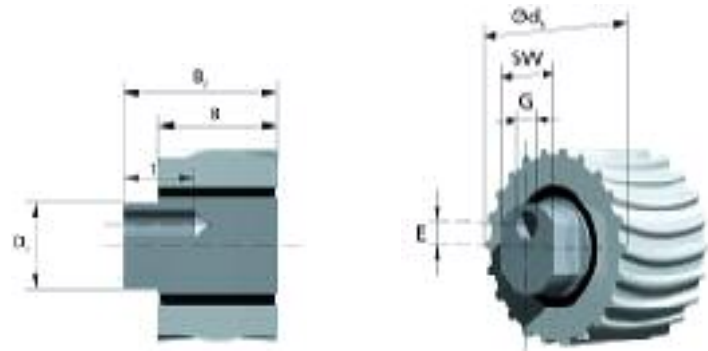
| Ordering code | Type | max. Belt width [mm] | B [mm] | d_k [mm] | B_2 [mm] | E [mm] | G |
|--------------------------------------|------|----------------------------|-----------|---------------|---------------|-----------|-----|
| Mulco tension roller Al 34 T5/22-0 | B/E0 | 25 | 34 | 34,15 | 42 | 5 | M6 |
| Mulco tension roller Al 34 AT5/22-0 | B/E0 | 25 | 34 | 33,79 | 42 | 5 | M6 |
| Mulco tension roller Al 40 T10/20-0 | B/E0 | 32 | 40 | 61,80 | 50 | 5 | M12 |
| Mulco tension roller Al 40 At10/20-0 | B/E0 | 32 | 40 | 61,84 | 50 | 5 | M12 |
| Mulco tension roller Al 64 T10/20-0 | B/E0 | 50 | 64 | 61,80 | 74 | 5 | M12 |
| Mulco tension roller Al 64 AT10/20-0 | B/E0 | 50 | 64 | 61,84 | 74 | 5 | M12 |

| Ordering code | Type | t [mm] | D_1 [mm] | SW [mm] | Loadbearing parameters | | max. Rotational speeds n [min ⁻¹] |
|--------------------------------------|------|-----------|---------------|------------|---------------------------|--------------------|--|
| | | | | | C_{dyn} [N] | $C_{stat.}$ [N] | |
| Mulco tension roller Al 34 T5/22-0 | B/E0 | 10 | 20 | 17 | 7950 | 3920 | 30000 |
| Mulco tension roller Al 34 AT5/22-0 | B/E0 | 10 | 20 | 17 | 7950 | 3920 | 30000 |
| Mulco tension roller Al 40 T10/20-0 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |
| Mulco tension roller Al 40 AT10/20-0 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |
| Mulco tension roller Al 64 T10/20-0 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |
| Mulco tension roller Al 64 AT10/20-0 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |

Preferred delivery range
Type B with excenter
Teeth on the running surface
BAT profile

Materials:

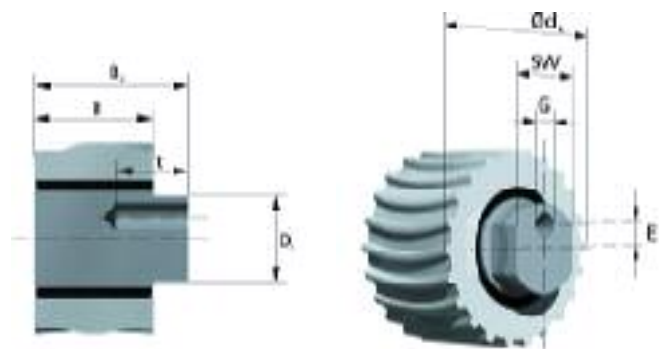
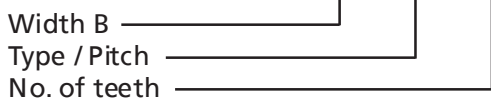
Axis: St
 Running roller: Al



Type B/E0 left

Order example:

Mulco-tension roller B Al40 BAT 10 / 20 right



Type B/E0 right

| Ordering code | Type | max. Belt width [mm] | B [mm] | dk [mm] | B ₂ [mm] | E [mm] | G |
|---|------|----------------------|--------|---------|---------------------|--------|-----|
| Mulco tension roller Al 40 BAT 10 / 20* | B/E0 | 32 | 40 | 61,84 | 50 | 5 | M12 |
| Mulco tension roller Al 64 BAT 10 / 20* | B/E0 | 50 | 64 | 61,84 | 74 | 5 | M12 |

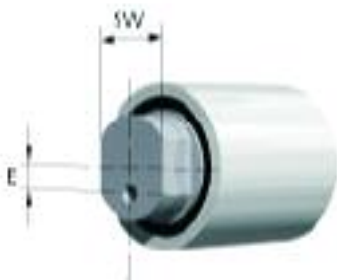
| Ordering code | Type | t [mm] | D ₁ [mm] | SW [mm] | Loadbearing parameters | | max. Rotational speeds n [min ⁻¹] |
|--|------|--------|---------------------|---------|------------------------|------------------------|---|
| | | | | | C _{dyn.} [N] | C _{stat.} [N] | |
| Mulco tension roller Al 40 BAT 10 / 20 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |
| Mulco tension roller Al 64 BAT 10 / 20 | B/E0 | 20 | 30 | 27 | 19300 | 13100 | 15000 |

* Note z_{min}!

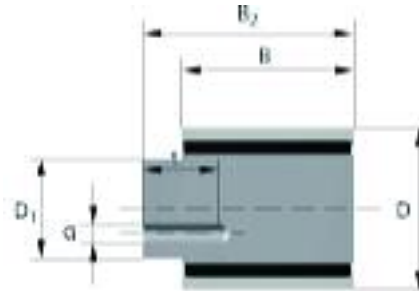
Tension rollers

Storage program Type B with excenter, smooth running surface

The Mulco tension rollers B are seated twice on grooved roller bearings. The bearings are greased for life. Permanent temperatures of 70°C and under will not lead to a reduced useful life of the grease. Short-term temperatures up to 120°C are permitted.



Type B/E0

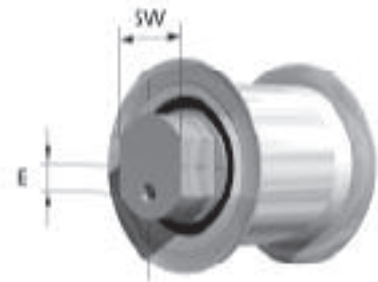
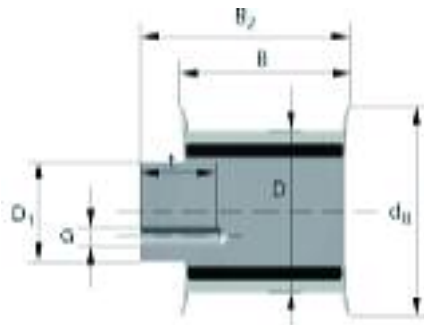


Materials:

Axis: St
Running roller: Al
Flanges: Al

| Ordering code | Type | max. Belt width [mm] | B [mm] | D [mm] | d_B [mm] | B_2 [mm] | E [mm] |
|---------------------------------|------|----------------------------|-----------|-----------|---------------|---------------|-----------|
| Mulco tension roller B 34/32-0 | B/E0 | 25 | 34 | 32 | - | 42 | 5 |
| Mulco tension roller B 34/32-2 | B/E2 | 25 | 34 | 32 | 41,5 | 42 | 5 |
| Mulco tension roller B 40/60-0 | B/E0 | 32 | 40 | 60 | - | 50 | 5 |
| Mulco tension roller B 40/60-2 | B/E2 | 32 | 40 | 60 | 71 | 50 | 5 |
| Mulco tension roller B 64/60-0 | B/E0 | 50 | 64 | 60 | - | 74 | 5 |
| Mulco tension roller B 64/60-2 | B/E2 | 50 | 64 | 60 | 71 | 74 | 5 |
| Mulco tension roller B 40/80-0 | B/E0 | 32 | 40 | 80 | - | 50 | 5 |
| Mulco tension roller B 40/80-2 | B/E2 | 32 | 40 | 80 | 91 | 50 | 5 |
| Mulco tension roller B 64/80-0 | B/E0 | 50 | 64 | 80 | - | 74 | 5 |
| Mulco tension roller B 64/80-2 | B/E2 | 50 | 64 | 80 | 91 | 74 | 5 |
| Mulco tension roller B 90/80-0 | B/E0 | 75 | 90 | 80 | - | 110 | 5 |
| Mulco tension roller B 90/80-2 | B/E2 | 75 | 90 | 80 | 91 | 110 | 5 |
| Mulco tension roller B 40/120-0 | B/E0 | 32 | 40 | 120 | - | 50 | 5 |
| Mulco tension roller B 40/120-2 | B/E2 | 32 | 40 | 120 | 132 | 50 | 5 |
| Mulco tension roller B 64/120-0 | B/E0 | 50 | 64 | 120 | - | 74 | 5 |
| Mulco tension roller B 64/120-2 | B/E2 | 50 | 64 | 120 | 132 | 74 | 5 |
| Mulco tension roller B 70/120-0 | B/E0 | 50 | 70 | 120 | - | 85 | 5 |
| Mulco tension roller B 70/120-2 | B/E2 | 50 | 70 | 120 | 137 | 85 | 5 |
| Mulco tension roller B 90/120-0 | B/E0 | 75 | 90 | 120 | - | 110 | 5 |
| Mulco tension roller B 90/120-2 | B/E2 | 75 | 90 | 120 | 132 | 110 | 5 |
| Mulco tension roller B 40/150-0 | B/E0 | 32 | 40 | 150 | - | 50 | 5 |
| Mulco tension roller B 40/150-2 | B/E2 | 32 | 40 | 150 | 162 | 50 | 5 |
| Mulco tension roller B 64/150-0 | B/E0 | 50 | 64 | 150 | - | 74 | 5 |
| Mulco tension roller B 64/150-2 | B/E2 | 50 | 64 | 150 | 162 | 74 | 5 |
| Mulco tension roller B 90/150-0 | B/E0 | 75 | 90 | 150 | - | 110 | 5 |
| Mulco tension roller B 90/150-2 | B/E2 | 75 | 90 | 150 | 162 | 110 | 5 |

**Storage program
Type B with excenter,
smooth running surface**



Order example:

Mulco-tension roller B 70 / 120 - 0
 Width B _____
 Diameter D _____
 No. of flanges _____

Type B/E2

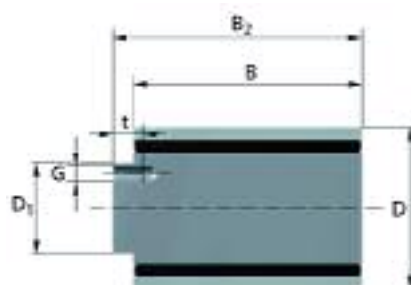
| G | t [mm] | SW [mm] | D ₁ [mm] | Load bearing parameters | | max. |
|-----|-----------|------------|------------------------|-------------------------|--------------------------|--|
| | | | | C _{dyn} [N] | C _{stat} [N] | Rotational speed n [min ⁻¹] |
| M6 | 10 | 17 | 20 | 7950 | 3920 | 10000 |
| M6 | 10 | 17 | 20 | 7950 | 3920 | 10000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M20 | 30 | 36 | 45 | 70500 | 48000 | 5000 |
| M20 | 30 | 36 | 45 | 70500 | 48000 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M12 | 20 | 27 | 30 | 19300 | 13100 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |
| M20 | 32 | 36 | 45 | 48000 | 38000 | 5000 |

Tension rollers

Storage program Type B with flange



Type B/F0

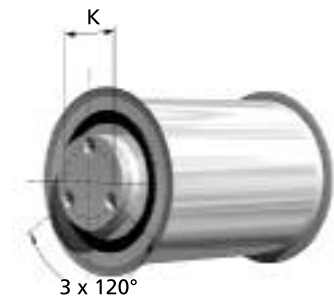
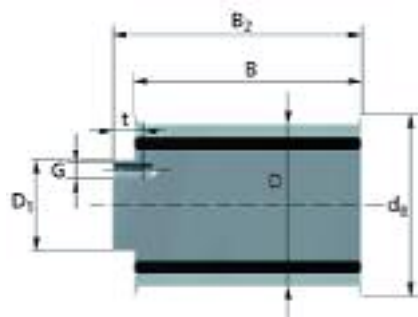


Materials:

Axis: St
Running roller: Al
Flanges: Al

| Ordering code | Type | max. Belt width [mm] | B [mm] | D [mm] | d_B [mm] | B_2 [mm] |
|----------------------------------|------|----------------------------|-----------|-----------|---------------|---------------|
| Mulco tension roller B 114/60-0 | B/F0 | 100 | 114 | 60 | - | 124 |
| Mulco tension roller B 114/60-2 | B/F2 | 100 | 114 | 60 | 71 | 124 |
| Mulco tension roller B 114/80-0 | B/F0 | 100 | 114 | 80 | - | 124 |
| Mulco tension roller B 114/80-2 | B/F2 | 100 | 114 | 80 | 91 | 124 |
| Mulco tension roller B 70/120-0 | B/F0 | 50 | 70 | 120 | - | 110 |
| Mulco tension roller B 70/120-2 | B/F2 | 50 | 70 | 120 | 137 | 110 |
| Mulco tension roller B 90/120-0 | B/F0 | 75 | 90 | 120 | - | 110 |
| Mulco tension roller B 90/120-2 | B/F2 | 75 | 90 | 120 | 137 | 110 |
| Mulco tension roller B 117/120-0 | B/F0 | 100 | 117 | 120 | - | 131 |
| Mulco tension roller B 117/120-2 | B/F2 | 100 | 117 | 120 | 137 | 131 |
| Mulco tension roller B 70/180-0 | B/F0 | 50 | 70 | 180 | - | 110 |
| Mulco tension roller B 70/180-2 | B/F2 | 50 | 70 | 180 | 204 | 110 |
| Mulco tension roller B 90/180-0 | B/F0 | 75 | 90 | 180 | - | 110 |
| Mulco tension roller B 90/180-2 | B/F2 | 75 | 90 | 180 | 204 | 110 |
| Mulco tension roller B 117/180-0 | B/F0 | 100 | 117 | 180 | - | 131 |
| Mulco tension roller B 117/180-2 | B/F2 | 100 | 117 | 180 | 204 | 131 |

Storage program Type B with flange



Order example:

Mulco-tension roller B 117 / 180 - 2
 Width B _____
 Diameter D _____
 No. of flanges _____

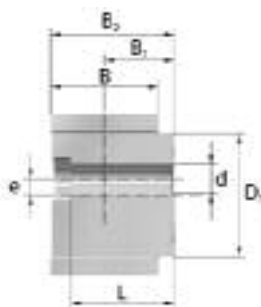
Type B/F2

| K [mm] | G | t [mm] | D ₁ [mm] | Load bearing parameters | | max. |
|-----------|----------|-----------|------------------------|--------------------------|---------------------------|--|
| | | | | C _{dyn.} [N] | C _{stat.} [N] | Rotational speed n [min ⁻¹] |
| 34 | M8 (3x) | 15 | 45 | 19300 | 13100 | 5000 |
| 34 | M8 (3x) | 15 | 45 | 19300 | 13100 | 5000 |
| 34 | M8 (3x) | 15 | 45 | 19300 | 13100 | 5000 |
| 34 | M8 (3x) | 15 | 45 | 19300 | 13100 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 75000 | 48000 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 24 | 85 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 25 | 106 | 70500 | 48000 | 5000 |
| 65 | M12 (3x) | 25 | 106 | 70500 | 48000 | 5000 |
| 80 | M16 (3x) | 25 | 106 | 106000 | 76000 | 5000 |
| 80 | M16 (3x) | 25 | 106 | 106000 | 76000 | 5000 |
| 80 | M16 (3x) | 25 | 106 | 106000 | 76000 | 5000 |
| 80 | M16 (3x) | 25 | 106 | 106000 | 76000 | 5000 |

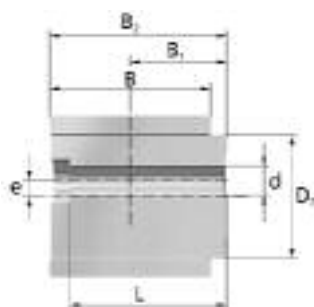
Tension rollers

Storage program

Type M, heavy series with excenter



1 groove



2 groove

The Mulco tension roller type M is available in 7 standard sizes. The tension rollers are distinguished by a rigid, vibration-resistant load bearing design. The forces acting by the belt pull are reliably absorbed by the generously dimensioned D_1 base diameter. The ball race and the load bearing structure are made of AlCuMgPb (F38). The tension rollers are over-mounted on the machine wall. The eccentric fitting results in an easy adjustment of the belt pre-tension force. To ensure the swivel motion around the mounting axle, the face spanner (picture on the right) can be used.

The Mulco tension rollers are fitted with high quality grooved ball bearings. The first filling of the bearings consists of a high-performance lithium saponified grease to ensure life time service. The greases are short-time temperature resistant up to 120°C. Permanent temperatures of 70°C and above will lead to a reduced useful life of the grease. The stated load bearing parameters refer to the entire tension roller on the basis of a centred belt load.

Cheese-head screws according to DIN 6912 can be used for machine wall mounting. The appropriate screw length depends on the fitting situation and the attendant surrounding structure. The table shows thread sizes and the recommended strength of the cheese-head screws.

Special sizes and tension roller versions with flanges on request.

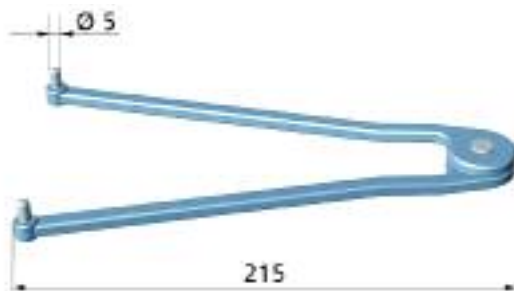
| Ordering code | Weight | Dimensions | | | | | | | | | Bearing type | | |
|---------------------------------|-------------|------------|----------------|----------------|------|----------------|-------|------|------|------|--------------|----------|--|
| | | B | B ₁ | B ₂ | D | D ₁ | L | e | s | d | 1 groove | 2 groove | |
| | [kg] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | [mm] | | |
| Tension roller BSR 71100 | 0,06 | 14 | 16 | 23 | 28 | 17,5 | - | - | - | - | - | 1 | |
| Tension roller BSR 73100 | 0,10 | 27 | 26 | 39,5 | 28 | 17,5 | - | - | - | - | - | 2 | |
| Mulco tension roller M40/60-0 | approx.0,4 | 40 | 26 | 46 | 60 | 46 | 37,5 | 6 | 35 | 11 | | 1 | |
| Mulco tension roller M60/60-0 | approx.0,5 | 60 | 36 | 66 | 60 | 46 | 57,5 | 6 | 35 | 11 | | 2 | |
| Mulco tension roller M110/60-0 | approx.0,8 | 110 | 61 | 116 | 60 | 46 | 106,5 | 5 | 35 | 13 | | 2 | |
| Mulco tension roller M60/120-0 | approx.2,4 | 60 | 35 | 70 | 120 | 94 | 57,5 | 17 | 70 | 17 | | 2 | |
| Mulco tension roller M110/120-0 | approx.3,9 | 110 | 60 | 120 | 120 | 94 | 107,5 | 17 | 70 | 17 | | 2 | |
| Mulco tension roller M85/180-0 | approx.7,0 | 85 | 45 | 95 | 180 | 137 | 78,5 | 30 | 70 | 26 | | 2 | |
| Mulco tension roller M160/180-0 | approx.10,8 | 160 | 83 | 170 | 180 | 137 | 153,5 | 30 | 70 | 26 | | 2 | |

Storage program Type M, light weight series without excenter

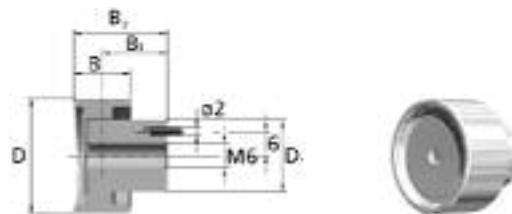
The tension roller BSR71-100 and BSR73-100 are available in 1- and 2-groove version. The first filling consists of grease DIN 51852-K3K. They have proven themselves as return and tensioning rollers of light construction, e.g. for timing belts T 2.5 and T 5.



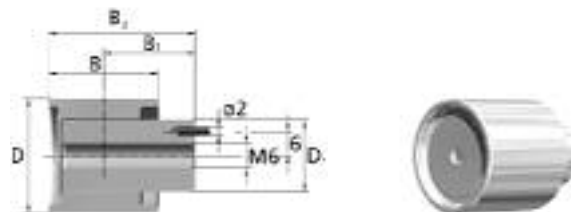
Mounting instruction: counter-clockwise tensioning!



Face spanner, Type 40 758



BSR 71-100

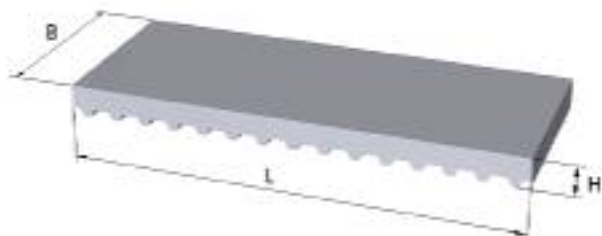


BSR 73-100

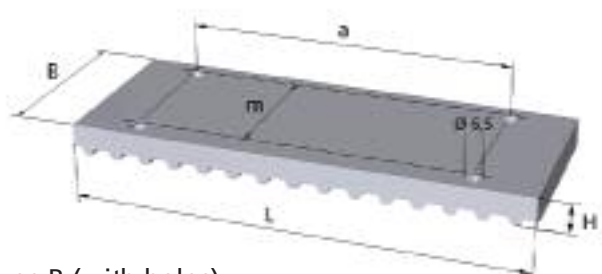
| Load bearing parameters | | Rotational speed | Fastening | | | Application recommendation | | |
|-------------------------|--------------------|----------------------|----------------------------|-------------------------|---------|----------------------------|--|--|
| $C_{0\text{dyn}}$ | $C_{0\text{stat}}$ | n_{max} | Cheese-head screw DIN 6912 | | | max. belt width | Tension roller running on back of the belt | Tension roller running on back of the belt |
| [N] | [N] | [min ⁻¹] | Size | Strength classification | Torque | | | |
| 4050 | 1710 | 8000 | M 6 | 8,8 | 10 Nm | 10 | T2,5/T5 | T2,5/T5/AT5 |
| 6200 | 3450 | 15000 | M 6 | 8,8 | 10 Nm | 25 | T2,5/T5 | T2,5/T5/AT5 |
| 11200 | 5600 | 15000 | M 10 | 8,8 | 49 Nm | 32 | AT5/T10 | AT10/T10 |
| 19300 | 11200 | 15000 | M 10 | 10,9 | 69 Nm | 50 | AT5/T10 | AT10/ATP10/T10 |
| 19300 | 11200 | 15000 | M 12 | 12,9 | 145 Nm | 100 | AT5/T10 | AT10/ATP10/T10 |
| 51000 | 36600 | 6700 | M 16 | 8,8 | 210 Nm | 50 | AT10/ATP10/T20 | AT20/ATP15 |
| 51000 | 36600 | 6700 | M 16 | 12,9 | 355 Nm | 100 | AT10/ATP10/T20 | AT20/ATP15 |
| 100000 | 78000 | 4800 | M 24 | 8,8 | 710 Nm | 75 | AT20/ATP15 | T20 |
| 100000 | 78000 | 4800 | M 24 | 12,9 | 1200 Nm | 150 | AT20/ATP15 | T20 |

Clamp plate

Storage program



Type without holes (without ordering addition)



Type B (with holes)

AT profile

| Ordering code | B x L | Belt code | Bore diameter | | | |
|---------------|---------------|-----------|---------------|-----|-----|----|
| | | | d | m | a | H |
| Clamp plate | 30x75 AT 3 | 10 AT 3 | 5,5 | 20 | 50 | 8 |
| Clamp plate | 50x75 AT 3 | 20 AT 3 | 5,5 | 30 | 50 | 8 |
| Clamp plate | 60x75 AT 3 | 25 AT 3 | 5,5 | 38 | 50 | 8 |
| Clamp plate | 50x120 AT 5 | 25 AT 5 | 6,5 | 38 | 80 | 10 |
| Clamp plate | 60x120 AT 5 | 32 AT 5 | 6,5 | 46 | 80 | 10 |
| Clamp plate | 75x120 AT 5 | 50 AT 5 | 6,5 | 62 | 80 | 10 |
| Clamp plate | 110x120 AT 5 | 75 AT 5 | 6,5 | 94 | 80 | 10 |
| Clamp plate | 140x120 AT 5 | 100 AT 5 | 6,5 | 124 | 80 | 10 |
| Clamp plate | 50x160 AT 10 | 25 AT 10 | 6,5 | 38 | 110 | 10 |
| Clamp plate | 60x160 AT 10 | 32 AT 10 | 6,5 | 46 | 110 | 10 |
| Clamp plate | 75x160 AT 10 | 50 AT 10 | 6,5 | 62 | 110 | 10 |
| Clamp plate | 110x160 AT 10 | 75 AT 10 | 6,5 | 94 | 110 | 10 |
| Clamp plate | 140x160 AT 10 | 100 AT 10 | 6,5 | 124 | 110 | 10 |
| Clamp plate | 190x160 AT 10 | 150 AT 10 | 6,5 | 174 | 110 | 10 |
| Clamp plate | 50x120 AT 20 | 25 AT 20 | 6,5 | 38 | 160 | 20 |
| Clamp plate | 60x200 AT 20 | 32 AT 20 | 6,5 | 46 | 160 | 20 |
| Clamp plate | 75x120 AT 20 | 50 AT 20 | 6,5 | 62 | 160 | 20 |
| Clamp plate | 110x200 AT 20 | 75 AT 20 | 6,5 | 94 | 160 | 20 |
| Clamp plate | 140x200 AT 20 | 100 AT 20 | 6,5 | 124 | 160 | 20 |
| Clamp plate | 190x200 AT 20 | 150 AT 20 | 6,5 | 174 | 160 | 20 |
| Clamp plate | 50x160 BAT 10 | 25 BAT 10 | 6,5 | 38 | 110 | 10 |
| Clamp plate | 60x160 BAT 10 | 32 BAT 10 | 6,5 | 46 | 110 | 10 |
| Clamp plate | 75x160 BAT 10 | 50 BAT 10 | 6,5 | 62 | 110 | 10 |

Clamp plates are often used in linear technology, when one or both belt ends need to be affixed to the housing.

An adjustment of the pretension is not possible with clamp plates.

Order example:

Clamp plate 60 x 160 AT10 B
 Width B _____
 Length L _____
 Type / Pitch _____
 Ordering addition (Type) _____

Material:

AlMgSi 0.5

Storage program T profile

| Ordering code | B x L | Belt code | Bore diameter | | a | H |
|---------------|--------------|-----------|---------------|-----|-----|----|
| | | | d | m | | |
| Clamp plate | 30x50 T 2,5 | 10 T 2,5 | 4,5 | 20 | 30 | 6 |
| Clamp plate | 40x60 T 2,5 | 20 T 2,5 | 4,5 | 30 | 30 | 6 |
| Clamp plate | 50x120 T 5 | 25 T 5 | 6,5 | 38 | 80 | 10 |
| Clamp plate | 60x120 T 5 | 32 T 5 | 6,5 | 46 | 80 | 10 |
| Clamp plate | 75x120 T 5 | 50 T 5 | 6,5 | 62 | 80 | 10 |
| Clamp plate | 110x120 T 5 | 75 T 5 | 6,5 | 94 | 80 | 10 |
| Clamp plate | 140x120 T 5 | 100 T 5 | 6,5 | 124 | 80 | 10 |
| Clamp plate | 50x160 T 10 | 25 T 10 | 6,5 | 38 | 110 | 10 |
| Clamp plate | 60x160 T 10 | 32 T 10 | 6,5 | 46 | 110 | 10 |
| Clamp plate | 75x160 T 10 | 50 T 10 | 6,5 | 62 | 110 | 10 |
| Clamp plate | 110x160 T 10 | 75 T 10 | 6,5 | 94 | 110 | 10 |
| Clamp plate | 140x160 T 10 | 100 T 10 | 6,5 | 124 | 110 | 10 |
| Clamp plate | 190x160 T 10 | 150 T 10 | 6,5 | 174 | 110 | 10 |
| Clamp plate | 50x120 T 20 | 25 T 20 | 6,5 | 38 | 160 | 20 |
| Clamp plate | 60x200 T 20 | 32 T 20 | 6,5 | 46 | 160 | 20 |
| Clamp plate | 75x120 T 20 | 50 T 20 | 6,5 | 62 | 160 | 20 |
| Clamp plate | 110x200 T 20 | 75 T 20 | 6,5 | 94 | 160 | 20 |
| Clamp plate | 140x200 T 20 | 100 T 20 | 6,5 | 124 | 160 | 20 |
| Clamp plate | 190x200 T 20 | 150 T 20 | 6,5 | 174 | 160 | 20 |

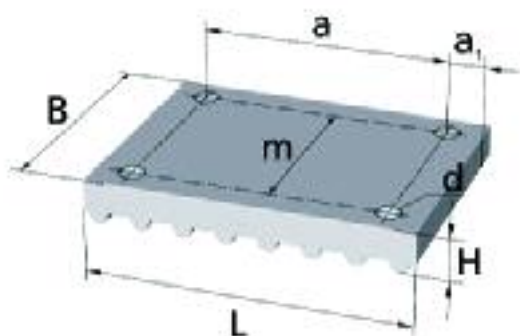
Imperial profile

| Ordering code | B x L | Belt code | Bore diameter | | a | H |
|---------------|----------------|--------------|---------------|-----|-----|----|
| | | | d | m | | |
| Clamp plate | 50x120 T 1/5" | 25,4 T 1/5" | 6,5 | 38 | 80 | 10 |
| Clamp plate | 60x120 T 1/5" | 38,1 T 1/5" | 6,5 | 46 | 80 | 10 |
| Clamp plate | 75x120 T 1/5" | 50,8 T 1/5" | 6,5 | 62 | 80 | 10 |
| Clamp plate | 110x120 T 1/5" | 76,2 T 1/5" | 6,5 | 94 | 80 | 10 |
| Clamp plate | 50x160 T 3/8" | 25,4 T 3/8" | 6,5 | 38 | 110 | 10 |
| Clamp plate | 60x160 T 3/8" | 38,1 T 3/8" | 6,5 | 46 | 110 | 10 |
| Clamp plate | 75x160 T 3/8" | 50,8 T 3/8" | 6,5 | 62 | 110 | 10 |
| Clamp plate | 110x160 T 3/8" | 76,2 T 3/8" | 6,5 | 94 | 110 | 10 |
| Clamp plate | 50x160 T 1/2" | 25,4 T 1/2" | 6,5 | 38 | 110 | 10 |
| Clamp plate | 60x160 T 1/2" | 38,1 T 1/2" | 6,5 | 46 | 110 | 10 |
| Clamp plate | 75x160 T 1/2" | 50,8 T 1/2" | 6,5 | 62 | 110 | 10 |
| Clamp plate | 110x160 T 1/2" | 76,2 T 1/2" | 6,5 | 94 | 110 | 10 |
| Clamp plate | 140x160 T 1/2" | 101,6 T 1/2" | 6,5 | 124 | 110 | 10 |
| Clamp plate | 50x200 T 7/8" | 25,4 T 7/8" | 6,5 | 38 | 160 | 20 |
| Clamp plate | 60x200 T 7/8" | 38,1 T 7/8" | 6,5 | 46 | 160 | 20 |
| Clamp plate | 75x200 T 7/8" | 50,8 T 7/8" | 6,5 | 62 | 160 | 20 |
| Clamp plate | 110x200 T 7/8" | 76,2 T 7/8" | 6,5 | 94 | 160 | 20 |
| Clamp plate | 140x200 T 7/8" | 101,6 T 7/8" | 6,5 | 124 | 160 | 20 |

Clamp plate

Clamp plate for belt clamping on one side

AT, T profile



Order example:

Clamp plate 60 x 78 AT10
 Width B └───┬───┘
 Length L └───┬───┘
 Type / Pitch └───┬───┘

Material:
 AlMgSi 0.5

AT profile

| Ordering code | B x L | Belt code | Belt code | | | | | Diameter | |
|---------------|--------------|-----------|-----------|----|----------------|----|-----|----------|--|
| | | | m | a | a ₁ | H | d | | |
| Clamp plate | 50x58 AT 5 | 25 AT 5 | 35 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 60x58 AT 5 | 32 AT 5 | 42 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 75x58 AT 5 | 50 AT 5 | 60 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 110x58 AT 5 | 75 AT 5 | 90 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 50x78 AT 10 | 25 AT 10 | 35 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 60x78 AT 10 | 32 AT 10 | 42 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 75x78 AT 10 | 50 AT 10 | 60 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 110x78 AT 10 | 75 AT 10 | 90 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 50x98 AT 20 | 25 AT 20 | 35 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 60x98 AT 20 | 32 AT 20 | 42 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 75x98 AT 20 | 50 AT 20 | 60 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 110x98 AT 20 | 75 AT 20 | 90 | 60 | 20 | 20 | 9 | | |

T profile

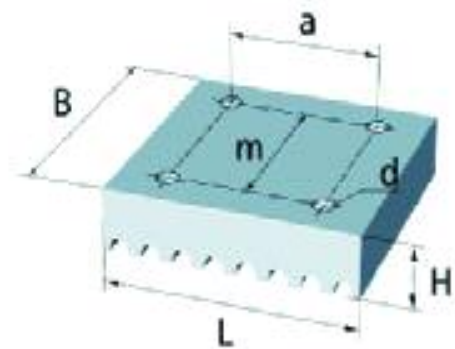
| Ordering code | B x L | Belt code | Belt code | | | | | Diameter | |
|---------------|-------------|-----------|-----------|----|----------------|----|-----|----------|--|
| | | | m | a | a ₁ | H | d | | |
| Clamp plate | 50x58 T 5 | 25 T 5 | 35 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 60x58 T 5 | 32 T 5 | 42 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 75x58 T 5 | 50 T 5 | 60 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 110x58 T 5 | 75 T 5 | 90 | 30 | 15 | 10 | 5,5 | | |
| Clamp plate | 50x78 T 10 | 25 T 10 | 35 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 60x78 T 10 | 32 T 10 | 42 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 75x78 T 10 | 50 T 10 | 60 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 110x78 T 10 | 75 T 10 | 90 | 40 | 20 | 10 | 5,5 | | |
| Clamp plate | 50x98 T 20 | 25 T 20 | 35 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 60x98 T 20 | 32 T 20 | 42 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 75x98 T 20 | 50 T 20 | 60 | 60 | 20 | 20 | 9 | | |
| Clamp plate | 110x98 T 20 | 75 T 20 | 90 | 60 | 20 | 20 | 9 | | |

Clamp plate for belt clamping on one side

Order example:

Clamp plate 60 x 78 8M
 Width B _____
 Length L _____
 Type / Pitch _____

HTD profile



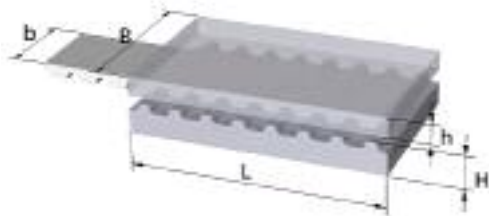
Material:
 AlMgSi 0.5

HTD profile

| Ordering code | B x L | Belt code | m | a | H | Diameter d |
|---------------|-------------|-----------|-----|----|----|------------|
| Clamp plate | 28x41.8 5M | 10 5M | 16 | 25 | 8 | 5,5 |
| Clamp plate | 34x41.8 5M | 15 5M | 22 | 25 | 8 | 5,5 |
| Clamp plate | 44x41.8 5M | 25 5M | 32 | 25 | 8 | 5,5 |
| Clamp plate | 45x66 8M | 20 8M | 29 | 40 | 15 | 9 |
| Clamp plate | 55x66 8M | 30 8M | 39 | 40 | 15 | 9 |
| Clamp plate | 75x66 8M | 50 8M | 59 | 40 | 15 | 9 |
| Clamp plate | 110x66 8M | 85 8M | 94 | 40 | 15 | 9 |
| Clamp plate | 71x116 14M | 40 14M | 51 | 98 | 22 | 11 |
| Clamp plate | 86x116 14M | 55 14M | 66 | 98 | 22 | 11 |
| Clamp plate | 116x116 14M | 85 14M | 96 | 98 | 22 | 11 |
| Clamp plate | 146x116 14M | 115 14M | 126 | 98 | 22 | 11 |
| Clamp plate | 201x116 14M | 170 14M | 181 | 98 | 22 | 11 |

Tension plates

Tension plate: Type 1 without bore holes and tension screw

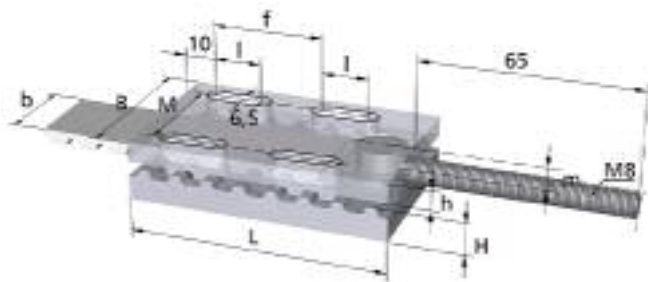


Where an adjustment of the pre-tension is required in addition to fastening, we recommend the use of tension plates. The delivery scope includes the tension screw.

Not suitable for ATL timing belts.

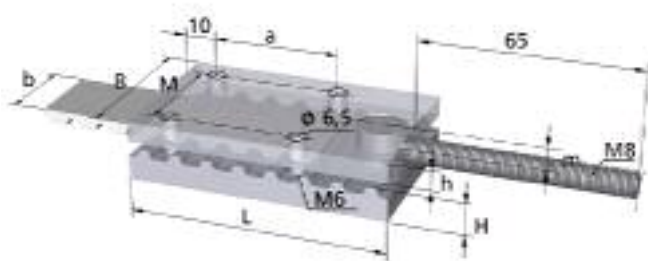
Also available in pitches: T1/5", T3/8" and T1/2"

Tension plate: Type 2 with tension screw and slots



Material:
AlSiMg0.5

Tension plate: Type 3 with tension screw and threaded holes
Thread in the bottom plate



Order example:

Tension plate 60 x 80 AT10 Type2
 Width B _____
 Length L _____
 Type / Pitch _____
 Type _____

Storage program

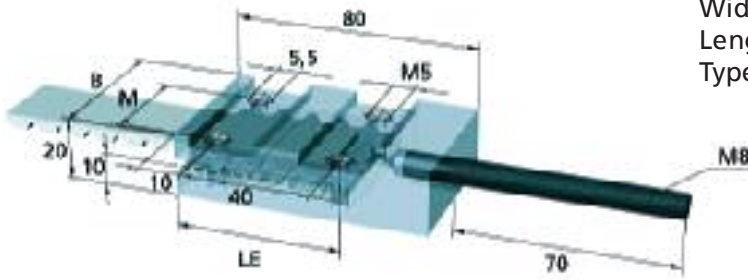
| Ordering code | | | Belt code | M | m | H | h | a | f | l |
|---------------|---------|-------|-----------|----|-----|----|---|----|----|----|
| Tension plate | 50x80 | AT 5 | 25 AT 5 | 38 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 60x80 | AT 5 | 32 AT 5 | 46 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 75x80 | AT 5 | 50 AT 5 | 62 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 110x80 | AT 5 | 75 AT 5 | 94 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 50x80 | AT 10 | 25 AT 10 | 38 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 60x80 | AT 10 | 32 AT 10 | 46 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 75x80 | AT 10 | 50 AT 10 | 62 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 110x80 | AT 10 | 75 AT 10 | 94 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 50x130 | AT 20 | 25 AT 20 | 38 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 60x130 | AT 20 | 32 AT 20 | 46 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 75x130 | AT 20 | 50 AT 20 | 62 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 110x130 | AT 20 | 75 AT 20 | 94 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 50x80 | T 5 | 25 T 5 | 38 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 60x80 | T 5 | 32 T 5 | 46 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 75x80 | T 5 | 50 T 5 | 62 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 110x80 | T 5 | 75 T 5 | 94 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 50x80 | T 10 | 25 T 10 | 38 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 60x80 | T 10 | 32 T 10 | 46 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 75x80 | T 10 | 50 T 10 | 62 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 110x80 | T 10 | 75 T 10 | 94 | 7 | 10 | 6 | 40 | 35 | 15 |
| Tension plate | 50x130 | T 20 | 25 T 20 | 38 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 60x130 | T 20 | 32 T 20 | 46 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 75x130 | T 20 | 50 T 20 | 62 | 9,5 | 20 | 8 | 60 | 55 | 25 |
| Tension plate | 110x130 | T 20 | 75 T 20 | 94 | 9,5 | 20 | 8 | 60 | 55 | 25 |

Tension plates

Tension plate in one part

Order example:

Tension plate in one part 50 x 80 AT10
 Width B _____
 Length _____
 Type / Pitch _____



Bottom edge to the centre
 Belt tension member: 10 mm
 Tension thread: M8
 free thread length: 70 mm
 Thread in the bottom plate (M5)
 Delivery including screws

Material:
 AlMgSi

Mould plate also available as clamp plate (without clamping screw)

Not suitable for ATL timing belts.

Tension plate in one part

| Ordering code | | Belt code | B | M | LE |
|---------------------------|--------------|-----------|-----|----|----|
| Tension plate in one part | 50x80 AT 10 | 25 AT 10 | 50 | 38 | 50 |
| Tension plate in one part | 60x80 AT 10 | 32 AT 10 | 60 | 46 | 50 |
| Tension plate in one part | 75x80 AT 10 | 50 AT 10 | 75 | 62 | 50 |
| Tension plate in one part | 110x80 AT 10 | 75 AT 10 | 110 | 94 | 50 |
| Tension plate in one part | 50x80 T 10 | 25 T 10 | 50 | 38 | 50 |
| Tension plate in one part | 60x80 T 10 | 32 T 10 | 60 | 46 | 50 |
| Tension plate in one part | 75x80 T 10 | 50 T 10 | 75 | 62 | 50 |
| Tension plate in one part | 110x80 T 10 | 75 T 10 | 110 | 94 | 50 |

Guide rails

BRECO, BRECOFLEX TIMING BELTS have proven as an excellent transport medium. In the drive pulley assembly the pull-off force is reliably induced by the positive fit of the belt teeth. The steel cord tension members transmit high tensile forces. The belt material polyurethane has abrasion and ageing resistant features.

The guide rails

The belt span is deflected first by the load of the transported products. Guide rails are to be used as constructive mean. We offer guide rails with or without guide channels depending on the requested function. The timing belt friction coefficients are low.

The guide rails are available as a standard range selection, matched to the timing belt width. The preferred delivery length is 2000 mm. Cuts to length shorter than 2000 mm are available. Larger lengths upon request.

Material

Our selected choice of material is low-pressure polyethylene. This material has a low friction coefficient and is also wear resistant.

The sliding friction value between standard polyurethane and low-pressure polyethylene is $\mu \approx 0.3$.

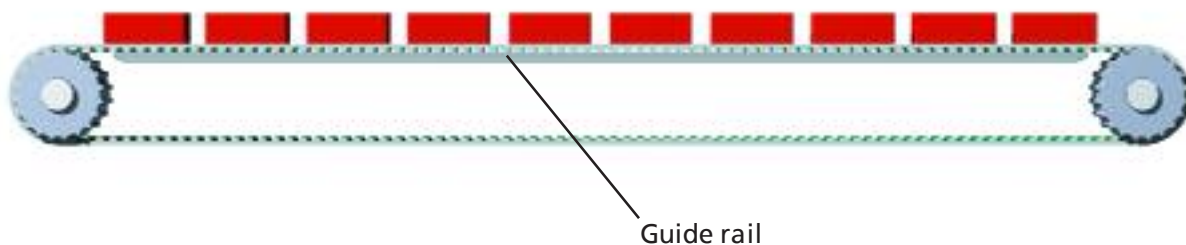
The C profile is made of zinc plated sheet steel. The cut-out is intended for fastening screws. The C profile has no bore holes.

Installation information

Due to the relatively large expansion of the sliding material under temperature, provide expansion gaps in the rail structure. Approximative formula for the linear expansion of low-pressure polyethylene:

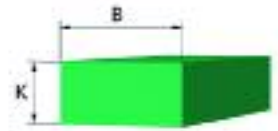
2mm/10°C temperature difference over 1000 mm of length.

Timing belt transport line

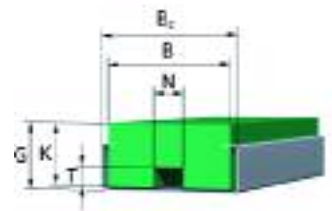


Guide rails without guide channels are of universal application for all timing belt types of our product range. They should be preferred where no strong lateral force act on the conveyor belt.

Storage program Guide rails without guide channels



Type G



Type GC

Order example:

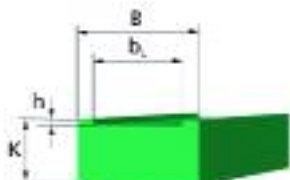
Guide rail GC 50 / 1200
 Type _____
 for belt width _____
 Length in mm _____

| Type | B | B _c | K | G | N | T | for timing belt width |
|-------|-----|----------------|----|------|----|---|-----------------------|
| G 32 | 45 | - | 22 | - | - | - | 32 |
| G 50 | 68 | - | 32 | - | - | - | 50 |
| G 75 | 93 | - | 32 | - | - | - | 75 |
| G 100 | 118 | - | 32 | - | - | - | 100 |
| GC 32 | 45 | 50 | 22 | 23,5 | 11 | 7 | 32 |
| GC 50 | 68 | 75 | 32 | 34,5 | 14 | 9 | 50 |
| GC 75 | 93 | 100 | 32 | 34,5 | 14 | 9 | 75 |
| GC100 | 118 | 125 | 32 | 34,5 | 14 | 9 | 100 |

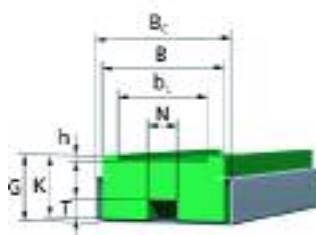
Guide rails

Storage program Guide rails with guide channels

Guide rails with guide channels are to be used preferably to guide the transport belt against lateral influences.



Type F



Type FC

Order example:

Guide rail FC 50 x 4 / 1200
 Type _____
 for belt width x h _____
 Length in mm _____

| Type | B | B _C | b _L | K | h | G | N | T | for timing belt width | |
|-----------|-----|----------------|----------------|----|---|------|----|---|-----------------------|---------|
| F 32 x 2 | 45 | - | 33 | 22 | 2 | - | - | - | 32 AT 5 | 32 T 5 |
| F 50 x 2 | 68 | - | 51 | 32 | 2 | - | - | - | 50 AT 5 | 50 T 5 |
| F 75 x 2 | 93 | - | 76 | 32 | 2 | - | - | - | 75 AT 5 | 75 T 5 |
| F 100 x 2 | 118 | - | 101 | 32 | 2 | - | - | - | 100 AT 5 | 100 T 5 |
| F 32 x 4 | 45 | - | 33 | 22 | 4 | - | - | - | 32 AT10 | 32 T10 |
| F 50 x 4 | 68 | - | 51 | 32 | 4 | - | - | - | 50 AT10 | 50 T10 |
| F 75 x 4 | 93 | - | 76 | 32 | 4 | - | - | - | 75 AT10 | 75 T10 |
| F 100 x 4 | 118 | - | 101 | 32 | 4 | - | - | - | 100 AT10 | 100 T10 |
| F 50 x 7 | 68 | - | 51 | 32 | 7 | - | - | - | 50 AT20 | 50 T20 |
| F 75 x 7 | 93 | - | 76 | 32 | 7 | - | - | - | 75 AT20 | 75 T20 |
| F 100 x 7 | 118 | - | 101 | 32 | 7 | - | - | - | 100 AT20 | 100 T20 |
| FC 32 x 2 | 45 | 50 | 33 | 22 | 2 | 23,5 | 11 | 7 | 32 AT 5 | 32 T 5 |
| FC 50 x 2 | 68 | 75 | 51 | 32 | 2 | 34,5 | 14 | 9 | 50 AT 5 | 50 T 5 |
| FC 75 x 2 | 93 | 100 | 76 | 32 | 2 | 34,5 | 14 | 9 | 75 AT 5 | 75 T 5 |
| FC100 x 2 | 118 | 125 | 101 | 32 | 2 | 34,5 | 14 | 9 | 100 AT 5 | 100 T 5 |
| FC 32 x 4 | 45 | 50 | 33 | 22 | 4 | 23,5 | 11 | 7 | 32 AT10 | 32 T10 |
| FC 50 x 4 | 68 | 75 | 51 | 32 | 4 | 34,5 | 14 | 9 | 50 AT10 | 50 T10 |
| FC 75 x 4 | 93 | 100 | 76 | 32 | 4 | 34,5 | 14 | 9 | 75 AT10 | 75 T10 |
| FC100 x 4 | 118 | 125 | 101 | 32 | 4 | 34,5 | 14 | 9 | 100 AT10 | 100 T10 |
| FC 50 x 7 | 68 | 75 | 51 | 32 | 7 | 34,5 | 14 | 9 | 50 AT20 | 50 T20 |
| FC 75 x 7 | 93 | 100 | 76 | 32 | 7 | 34,5 | 14 | 9 | 75 AT20 | 75 T20 |
| FC100 x 7 | 118 | 125 | 101 | 32 | 7 | 34,5 | 14 | 9 | 100 AT20 | 100 T20 |

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| AT 10-DL (BFX) | 58 and following. |
| AT 10-DR (BFX) | 58 and following. |
| AT 10-T (BFX) | 58 and following. |
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| AT 20 (BRECO V)..... | 179 |
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| AT 20-T (BFX) | 62 and following. |
| AT 20-T (BRECO V) | 183 |
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| AT 3 (BRECO V) | 181 |
| AT 3 (SFX) | 46 |
| AT 3 GEN III (SFX) | 44 and following. |
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| AT 5 (SFX) | 50 and following. |
| AT 5 GEN III (SFX) | 48 and following. |
| AT 5-DL-E (BFX) | 52 and following. |
| AT 5-DR-E (BFX) | 52 and following. |
| AT 5-E (BFX) | 52 and following. |
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| ATK 10 K6-DR (BFX) | 86 and following. |
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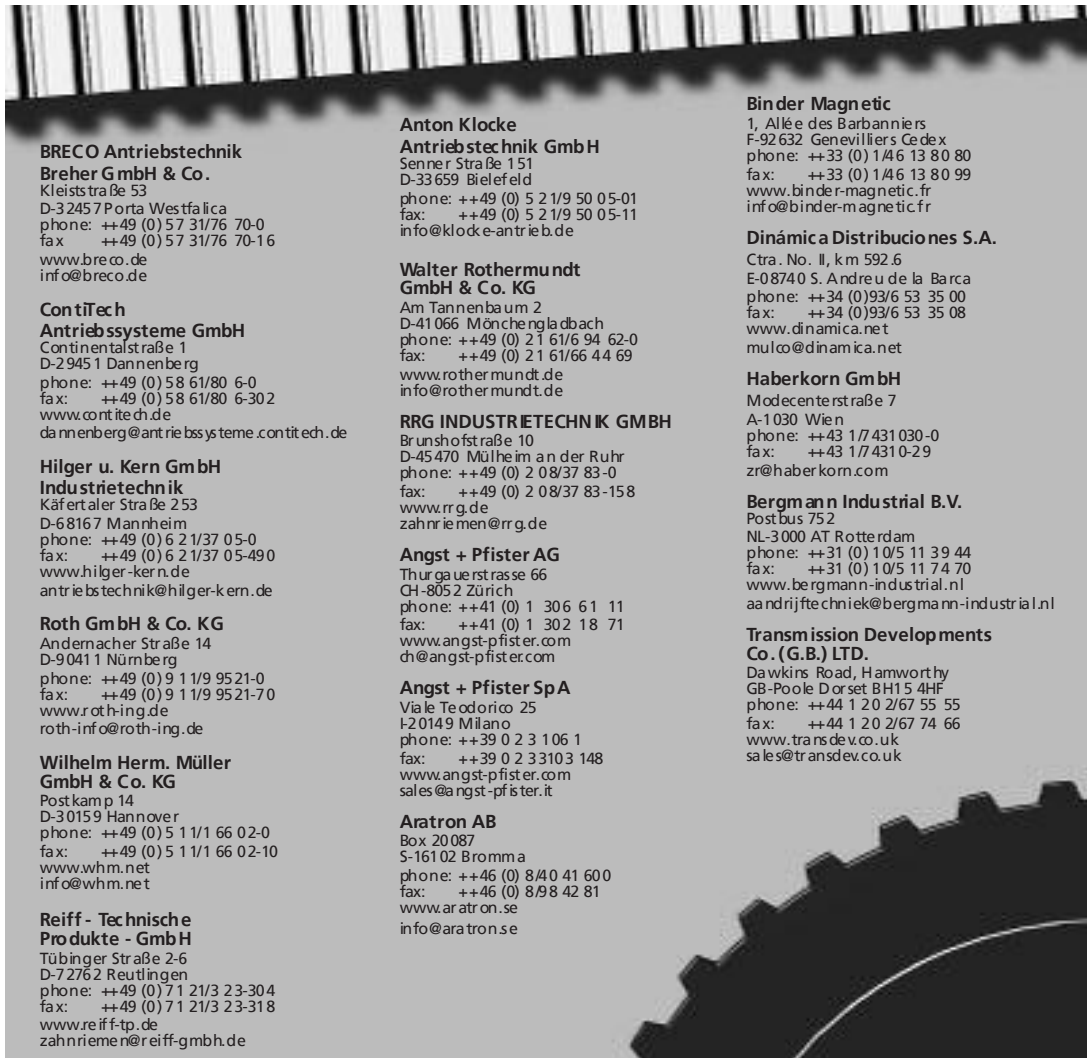
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Warranty

All information was compiled with utmost care according current knowledge. We wish to stress that the technical data is subject to tolerances and not intended to be understood as a delivery specification. We further emphasise the fact that the section 'Calculations' and their application implies development risks. No claims can be derived from possible errors or false application interpretation. All rights for technical modifications are withheld.



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