

SHRINK DISC TYPE HSD – GENERAL INFORMATION

Application Description

Shrink discs are detachable machine elements for the connection of a hub to a shaft. The two-part path-controlled frictional connection is maintenance-free and dirt-resistant due to its press fit and is very versatile in its use. The cost-effective and high-quality mechanical shrink discs are supplied by STÜWE® in many different variants.

Areas of Use



Driveline
technology



Steel- &
rolling mill equipment



Crushing
equipment



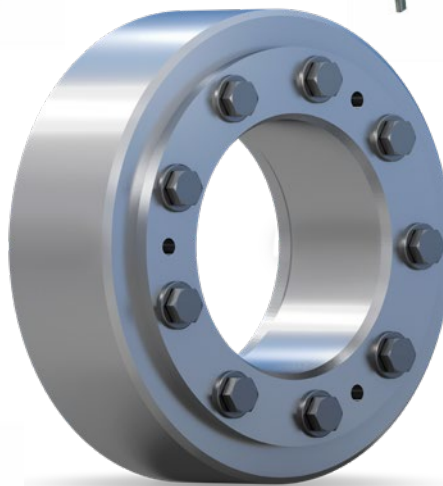
Conveying
equipment



Agitation &
mixing equipment

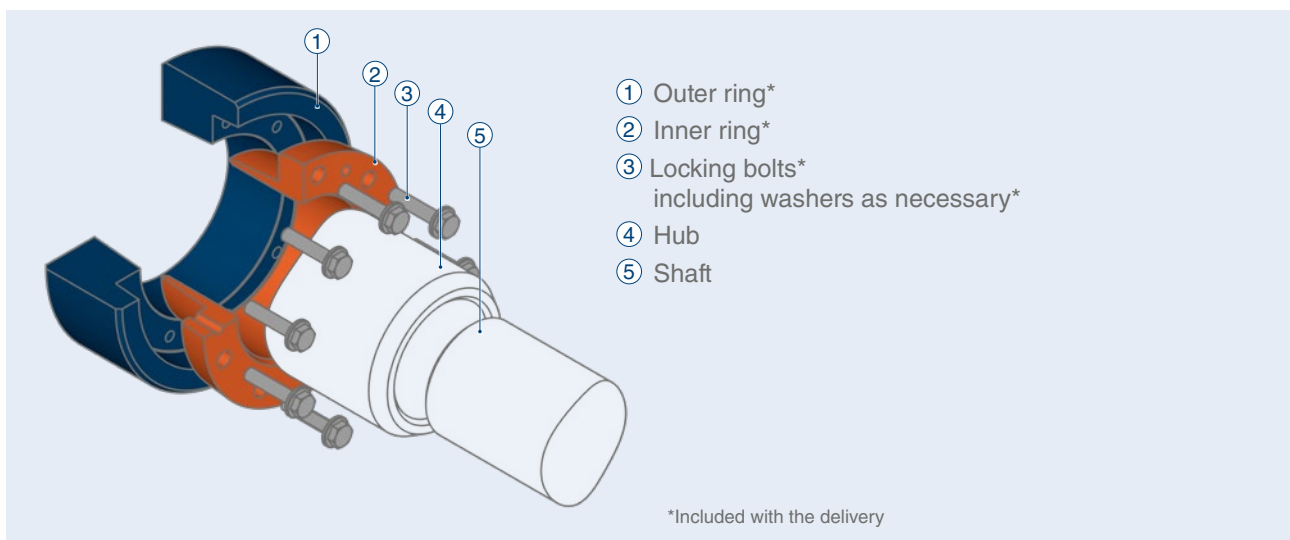


Wind turbines



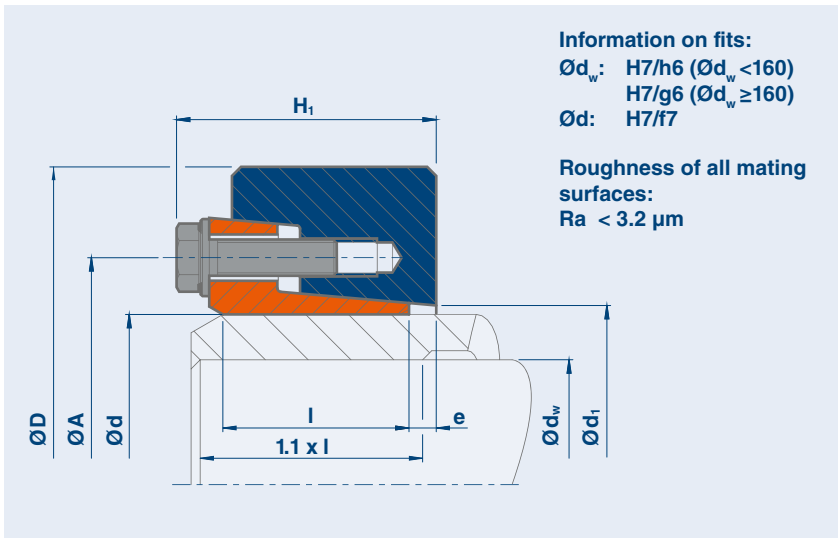
SHRINK DISC TYPE HSD – SERIES

| Description | Shaft diameter | Transmissible torque | Features |
|-----------------|----------------|----------------------|--|
| HSD 20 | 20 - 250 mm | 0.15 - 18.3 kNm | Low torques |
| HSD 21 | 110 - 730 mm | 16 - 4033 kNm | Average torques |
| HSD 22 | 9 - 1050 mm | 0.02 - 16493 kNm | High torques |
| HSD 23 | 100 - 1050 mm | 26 - 19684 kNm | Very high torques |
| HSD 81 | 38 - 1050 mm | 1.5 - 19958 kNm | As series 22 but with 20 - 30 % higher torque capacity |
| HSD 83 | 100 - 1050 mm | 30 - 23811 kNm | As series 23 but with 20 - 30 % higher torque capacity |
| HSD 20 - 1.4122 | 20 - 250 mm | 0.08 - 9.14 kNm | Low torques, rust-and acid-proof |
| HSD 20 - 1.4462 | 20 - 250 mm | 0.06 - 6.84 kNm | Low torques, rust-and acid-proof |



All types may be protected against environmental influences by zinc and nickel coating or by a paint which has an appropriate corrosion protection class. We are able to achieve both desired colours which conform with the RAL colour range and products with lubricants in accordance with NSF H1. More detailed information on this may be found in this catalogue on page 151.

STÜWE® Shrink Disc Type HSD Series 20



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 20

| Type | d mm | d_w mm | M_t kNm | P_{ax} kN | M_a Nm | B* | D mm | l mm | H_1 mm | A mm | d_1 mm | e mm | kg |
|-------------|---------|-------------|--------------|----------------|-------------|--------|---------|---------|-------------|---------|-------------|---------|-----|
| HSD 24 - 20 | 24 | 20 | 0.15 | 15 | 12 | 6 x M6 | 50 | 11.5 | 17 | 38 | 25.5 | 1.5 | 0.2 |
| | | 21 | 0.17 | 17 | | | | | | | | | |
| | | 22 | 0.21 | 19 | | | | | | | | | |
| HSD 29 - 20 | 29 | 25 | 0.22 | 18 | 12 | 6 x M6 | 58 | 12.5 | 18 | 44 | 32 | 1.5 | 0.2 |
| | | 26 | 0.25 | 19 | | | | | | | | | |
| | | 27 | 0.29 | 21 | | | | | | | | | |
| HSD 35 - 20 | 34 | 29 | 0.22 | 15 | 12 | 5 x M6 | 64 | 12.5 | 18 | 52 | 39 | 1.5 | 0.2 |
| | | 30 | 0.25 | 16 | | | | | | | | | |
| | | 32 | 0.31 | 19 | | | | | | | | | |
| HSD 40 - 20 | 38 | 34 | 0.28 | 16 | 12 | 6 x M6 | 69 | 12.2 | 18 | 55 | 43 | 1.6 | 0.3 |
| | | 35 | 0.31 | 18 | | | | | | | | | |
| | | 36 | 0.34 | 19 | | | | | | | | | |
| HSD 46 - 20 | 46 | 38 | 0.41 | 22 | 12 | 6 x M6 | 80 | 13 | 23 | 62 | 49 | 2.5 | 0.4 |
| | | 40 | 0.50 | 25 | | | | | | | | | |
| | | 42 | 0.60 | 28 | | | | | | | | | |
| HSD 51 - 20 | 51 | 44 | 0.55 | 25 | 12 | 8 x M6 | 86 | 13 | 23 | 67 | 54 | 2.6 | 0.5 |
| | | 45 | 0.60 | 27 | | | | | | | | | |
| | | 47 | 0.70 | 30 | | | | | | | | | |
| HSD 56 - 20 | 55 | 48 | 0.57 | 24 | 12 | 8 x M6 | 90 | 13 | 23 | 72 | 59 | 3 | 0.5 |
| | | 50 | 0.66 | 26 | | | | | | | | | |
| | | 52 | 0.76 | 29 | | | | | | | | | |
| HSD 61 - 20 | 61 | 53 | 0.68 | 26 | 12 | 8 x M6 | 96 | 13 | 24 | 76 | 64 | 3 | 0.6 |
| | | 55 | 0.79 | 29 | | | | | | | | | |
| | | 57 | 0.90 | 32 | | | | | | | | | |
| HSD 66 - 20 | 65 | 58 | 0.74 | 26 | 12 | 8 x M6 | 100 | 13 | 24 | 82 | 69 | 3 | 0.6 |
| | | 60 | 0.85 | 28 | | | | | | | | | |
| | | 62 | 0.97 | 31 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x $\text{Ø}d$) e.g. HSD 35 - 20 x 34

Shrink Disc Type HSD – Series 20

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 73 - 20 | 70 | 63 | 0.94 | 30 | 29 | 9 x M8 | 115 | 18 | 30 | 94 | 77 | 3 | 1.2 |
| | 72 | 65 | 1.07 | 33 | | | | | | | | | |
| | 73 | 68 | 1.29 | 38 | | | | | | | | | |
| HSD 78 - 20 | 76 | 68 | 1.21 | 36 | 29 | 9 x M8 | 120 | 18 | 30 | 100 | 82 | 3 | 1.2 |
| | 78 | 70 | 1.36 | 39 | | | | | | | | | |
| | | 72 | 1.52 | 42 | | | | | | | | | |
| HSD 83 - 20 | 81 | 73 | 1.24 | 34 | 29 | 9 x M8 | 125 | 18 | 30 | 104 | 87 | 3 | 1.3 |
| | 83 | 75 | 1.38 | 37 | | | | | | | | | |
| | | 77 | 1.54 | 40 | | | | | | | | | |
| HSD 88 - 20 | 86 | 78 | 1.47 | 38 | 29 | 9 x M8 | 130 | 18 | 30 | 110 | 92 | 3 | 1.4 |
| | 88 | 80 | 1.62 | 40 | | | | | | | | | |
| | | 82 | 1.78 | 43 | | | | | | | | | |
| HSD 93 - 20 | 93 | 83 | 1.63 | 39 | 29 | 9 x M8 | 135 | 18 | 31 | 114 | 97 | 3 | 1.4 |
| | 94 | 85 | 1.80 | 42 | | | | | | | | | |
| | | 87 | 1.97 | 45 | | | | | | | | | |
| HSD 98 - 20 | 96 | 88 | 1.72 | 39 | 29 | 9 x M8 | 140 | 18 | 31 | 120 | 102 | 3 | 1.5 |
| | 98 | 90 | 1.89 | 42 | | | | | | | | | |
| | | 92 | 2.07 | 45 | | | | | | | | | |
| HSD 103 - 20 | 103 | 93 | 2.13 | 46 | 29 | 10 x M8 | 145 | 18 | 31 | 124 | 107 | 3.5 | 1.5 |
| | | 95 | 2.31 | 49 | | | | | | | | | |
| | | 97 | 2.50 | 52 | | | | | | | | | |
| HSD 108 - 20 | 106 | 98 | 2.16 | 44 | 29 | 10 x M8 | 150 | 18 | 31 | 128 | 112 | 3.5 | 1.6 |
| | 108 | 100 | 2.34 | 47 | | | | | | | | | |
| | | 102 | 2.53 | 50 | | | | | | | | | |
| HSD 115 - 20 | 112 | 103 | 2.34 | 45 | 29 | 10 x M8 | 160 | 22 | 35 | 134 | 118 | 3.5 | 2.1 |
| | 115 | 105 | 2.54 | 48 | | | | | | | | | |
| | | 108 | 2.86 | 53 | | | | | | | | | |
| HSD 120 - 20 | 118 | 108 | 2.82 | 52 | 29 | 10 x M8 | 164 | 22 | 35 | 140 | 124 | 3.5 | 2.1 |
| | 120 | 110 | 3.03 | 55 | | | | | | | | | |
| | | 113 | 3.37 | 60 | | | | | | | | | |
| HSD 125 - 20 | 125 | 113 | 2.94 | 52 | 29 | 12 x M8 | 169 | 22 | 35 | 144 | 129 | 3.5 | 2.2 |
| | | 115 | 3.16 | 55 | | | | | | | | | |
| | | 118 | 3.49 | 59 | | | | | | | | | |
| HSD 130 - 20 | 130 | 118 | 3.15 | 53 | 29 | 12 x M8 | 174 | 22 | 35 | 150 | 134 | 3.5 | 2.2 |
| | | 120 | 3.37 | 56 | | | | | | | | | |
| | | 123 | 3.71 | 60 | | | | | | | | | |
| HSD 135 - 20 | 135 | 123 | 3.57 | 58 | 29 | 12 x M8 | 179 | 22 | 35 | 154 | 139 | 3.5 | 2.3 |
| | | 125 | 3.81 | 61 | | | | | | | | | |
| | | 128 | 4.19 | 66 | | | | | | | | | |
| HSD 140 - 20 | 138 | 128 | 3.93 | 61 | 29 | 12 x M8 | 184 | 22 | 36 | 160 | 144 | 4 | 2.4 |
| | 140 | 130 | 4.18 | 64 | | | | | | | | | |
| | | 132 | 4.44 | 67 | | | | | | | | | |
| HSD 145 - 20 | 145 | 133 | 4.39 | 66 | 29 | 12 x M8 | 189 | 22 | 36 | 164 | 149 | 4 | 2.5 |
| | | 135 | 4.65 | 69 | | | | | | | | | |
| | | 137 | 4.92 | 72 | | | | | | | | | |
| HSD 150 - 20 | 150 | 138 | 4.89 | 71 | 29 | 12 x M8 | 194 | 22 | 36 | 170 | 154 | 4 | 2.5 |
| | | 140 | 5.16 | 74 | | | | | | | | | |
| | | 142 | 5.44 | 77 | | | | | | | | | |
| HSD 160 - 20 | 160 | 146 | 4.86 | 67 | 29 | 12 x M8 | 204 | 22 | 35 | 180 | 164 | 4 | 2.6 |
| | | 150 | 5.39 | 72 | | | | | | | | | |
| | | 152 | 5.67 | 75 | | | | | | | | | |
| HSD 170 - 20 | 166 | 156 | 5.20 | 67 | 29 | 12 x M8 | 214 | 22 | 35 | 190 | 174 | 4 | 3.0 |
| | 170 | 160 | 5.73 | 72 | | | | | | | | | |
| | | 162 | 6.01 | 74 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 108 - 20 x 106

Shrink Disc Type HSD – Series 20

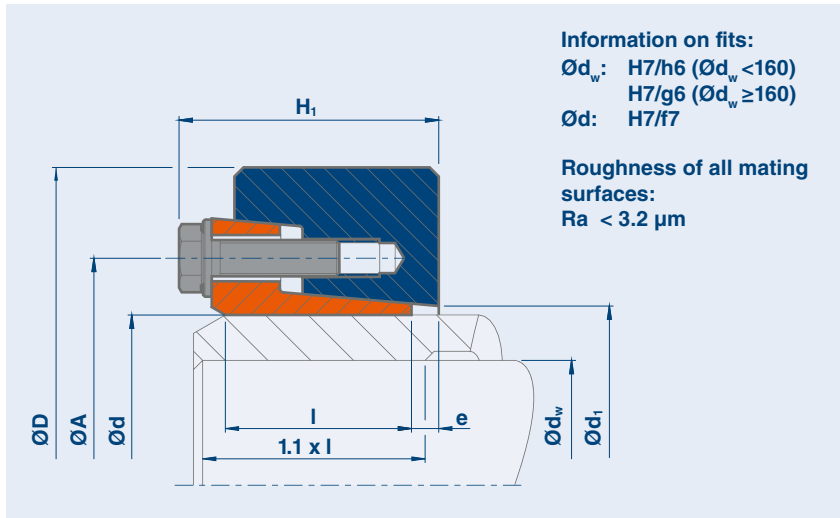
| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 182 - 20 | 182 | 166 | 7.62 | 92 | 29 | 14 x M8 | 230 | 25 | 41 | 206 | 188 | 5 | 3.9 |
| | | 170 | 8.35 | 98 | | | | | | | | | |
| | | 172 | 8.73 | 101 | | | | | | | | | |
| HSD 192 - 20 | 189 | 176 | 8.35 | 95 | 29 | 14 x M8 | 240 | 25 | 41 | 216 | 198 | 5 | 3.9 |
| | | 192 | 9.09 | 101 | | | | | | | | | |
| | | 182 | 9.47 | 104 | | | | | | | | | |
| HSD 202 - 20 | 197 | 186 | 8.88 | 95 | 29 | 15 x M8 | 250 | 25 | 41 | 224 | 208 | 5.5 | 4.6 |
| | | 198 | 9.67 | 102 | | | | | | | | | |
| | | 202 | 10.08 | 105 | | | | | | | | | |
| HSD 212 - 20 | 212 | 196 | 9.74 | 99 | 29 | 15 x M8 | 260 | 25 | 41 | 234 | 218 | 5.5 | 4.4 |
| | | 200 | 10.55 | 106 | | | | | | | | | |
| | | 202 | 10.97 | 109 | | | | | | | | | |
| HSD 222 - 20 | 220 | 206 | 10.83 | 105 | 29 | 16 x M8 | 270 | 25 | 42 | 244 | 228 | 5.7 | 4.9 |
| | | 222 | 11.66 | 111 | | | | | | | | | |
| | | 212 | 12.09 | 114 | | | | | | | | | |
| HSD 232 - 20 | 230 | 216 | 14.40 | 133 | 29 | 16 x M8 | 280 | 25 | 42 | 254 | 238 | 5.7 | 5.0 |
| | | 232 | 15.35 | 140 | | | | | | | | | |
| | | 222 | 15.83 | 143 | | | | | | | | | |
| HSD 242 - 20 | 242 | 226 | 15.27 | 135 | 29 | 16 x M8 | 290 | 25 | 42 | 264 | 248 | 5.7 | 5.0 |
| | | 230 | 16.22 | 141 | | | | | | | | | |
| | | 232 | 16.72 | 144 | | | | | | | | | |
| HSD 252 - 20 | 252 | 234 | 15.98 | 137 | 29 | 16 x M8 | 300 | 25 | 42 | 274 | 258 | 6 | 5.2 |
| | | 238 | 16.94 | 142 | | | | | | | | | |
| | | 240 | 17.44 | 145 | | | | | | | | | |
| HSD 262 - 20 | 262 | 244 | 16.84 | 138 | 29 | 18 x M8 | 310 | 25 | 42 | 286 | 268 | 6 | 5.6 |
| | | 248 | 17.80 | 144 | | | | | | | | | |
| | | 250 | 18.30 | 146 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 192 - 20 x 192

STÜWE® Shrink Disc Type HSD Series 21



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 21

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 140 - 21 | 140 | 110 | 16 | 298 | 100 | 9 x M12 | 215 | 38 | 52 | 164 | 143 | 6.5 | 6.4 |
| | | 120 | 20 | 341 | | | | | | | | | |
| | | 130 | 25 | 385 | | | | | | | | | |
| HSD 155 - 21 | 155 | 130 | 26 | 398 | 100 | 15 x M12 | 245 | 38 | 52 | 184 | 164 | 6.5 | 8.7 |
| | | 160 | 28 | 420 | | | | | | | | | |
| | | 140 | 31 | 443 | | | | | | | | | |
| HSD 165 - 21 | 165 | 135 | 29 | 432 | 160 | 12 x M14 | 263 | 43 | 58 | 200 | 174 | 6.2 | 11.4 |
| | | 170 | 32 | 456 | | | | | | | | | |
| | | 145 | 35 | 480 | | | | | | | | | |
| HSD 175 - 21 | 175 | 145 | 36 | 497 | 160 | 12 x M14 | 275 | 43 | 59 | 208 | 184 | 7.2 | 12.2 |
| | | 180 | 39 | 522 | | | | | | | | | |
| | | 155 | 42 | 547 | | | | | | | | | |
| HSD 185 - 21 | 185 | 155 | 50 | 645 | 160 | 16 x M14 | 290 | 51 | 68 | 220 | 195 | 8.2 | 16 |
| | | 190 | 54 | 675 | | | | | | | | | |
| | | 165 | 58 | 704 | | | | | | | | | |
| HSD 195 - 21 | 195 | 165 | 68 | 822 | 160 | 15 x M14 | 320 | 51 | 68 | 230 | 204 | 8.2 | 20.6 |
| | | 200 | 73 | 855 | | | | | | | | | |
| | | 180 | 83 | 922 | | | | | | | | | |
| HSD 220 - 21 | 220 | 180 | 80 | 892 | 240 | 16 x M16 | 340 | 55 | 79 | 254 | 227 | 10 | 23.6 |
| | | 190 | 91 | 962 | | | | | | | | | |
| | | 200 | 103 | 1032 | | | | | | | | | |
| HSD 240 - 21 | 240 | 200 | 103 | 1026 | 240 | 16 x M16 | 370 | 55 | 80 | 274 | 247 | 11 | 27.6 |
| | | 210 | 115 | 1095 | | | | | | | | | |
| | | 220 | 128 | 1165 | | | | | | | | | |
| HSD 260 - 21 | 260 | 220 | 132 | 1197 | 240 | 18 x M16 | 405 | 55 | 80 | 294 | 266 | 11 | 33.5 |
| | | 230 | 146 | 1271 | | | | | | | | | |
| | | 240 | 161 | 1344 | | | | | | | | | |
| HSD 280 - 21 | 280 | 230 | 160 | 1392 | 470 | 15 x M20 | 430 | 65 | 93 | 320 | 288 | 12 | 44.1 |
| | | 240 | 177 | 1473 | | | | | | | | | |
| | | 250 | 194 | 1555 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9

M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 185 - 21 x 190

Shrink Disc Type HSD – Series 21

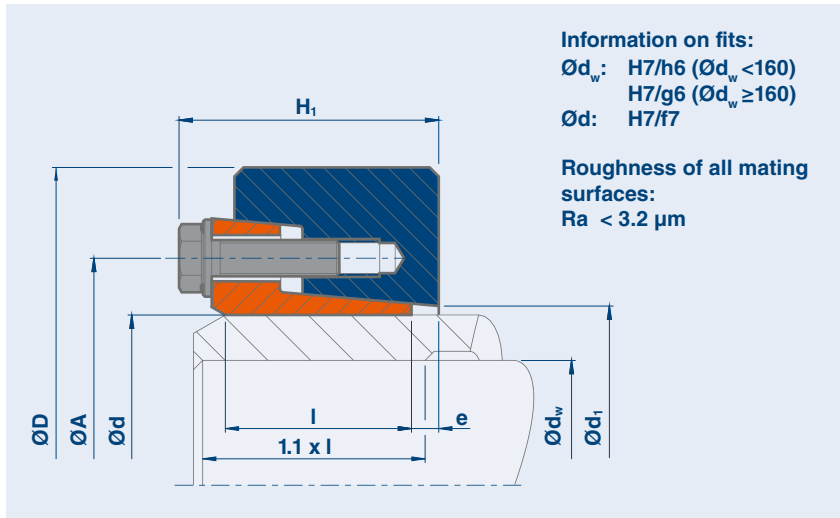
| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 300 - 21 | 300 | 250 | 191 | 1529 | 470 | 16 x M20 | 460 | 65 | 94 | 340 | 308 | 13 | 50.2 |
| | | 260 | 209 | 1610 | | | | | | | | | |
| | | 270 | 228 | 1691 | | | | | | | | | |
| HSD 320 - 21 | 320 | 270 | 243 | 1804 | 470 | 20 x M20 | 485 | 77 | 106 | 364 | 327 | 13 | 64.5 |
| | | 280 | 265 | 1894 | | | | | | | | | |
| | | 290 | 288 | 1986 | | | | | | | | | |
| HSD 340 - 21 | 340 | 280 | 274 | 1958 | 470 | 20 x M20 | 520 | 77 | 106 | 384 | 347 | 13 | 75 |
| | | 290 | 297 | 2050 | | | | | | | | | |
| | | 300 | 322 | 2143 | | | | | | | | | |
| HSD 360 - 21 | 360 | 300 | 356 | 2373 | 470 | 20 x M20 | 570 | 89 | 122 | 410 | 368 | 13 | 113 |
| | | 310 | 384 | 2476 | | | | | | | | | |
| | | 330 | 443 | 2686 | | | | | | | | | |
| HSD 390 - 21 | 390 | 330 | 438 | 2654 | 470 | 24 x M20 | 590 | 89 | 123 | 440 | 398 | 14 | 114 |
| | | 340 | 469 | 2759 | | | | | | | | | |
| | | 350 | 501 | 2865 | | | | | | | | | |
| HSD 420 - 21 | 420 | 350 | 624 | 3564 | 820 | 18 x M24 | 630 | 120 | 160 | 470 | 427 | 21 | 166 |
| | | 360 | 665 | 3697 | | | | | | | | | |
| | | 370 | 709 | 3831 | | | | | | | | | |
| HSD 440 - 21 | 440 | 370 | 778 | 4203 | 820 | 20 x M24 | 660 | 132 | 174 | 494 | 448 | 21 | 203 |
| | | 380 | 826 | 4350 | | | | | | | | | |
| | | 390 | 877 | 4497 | | | | | | | | | |
| HSD 460 - 21 | 460 | 390 | 852 | 4370 | 820 | 20 x M24 | 690 | 132 | 174 | 516 | 468 | 21 | 222 |
| | | 400 | 903 | 4514 | | | | | | | | | |
| | | 410 | 955 | 4658 | | | | | | | | | |
| HSD 480 - 21 | 480 | 410 | 1086 | 5298 | 820 | 24 x M24 | 720 | 152 | 194 | 540 | 487 | 23 | 274 |
| | | 420 | 1147 | 5461 | | | | | | | | | |
| | | 430 | 1210 | 5626 | | | | | | | | | |
| HSD 500 - 21 | 500 | 420 | 1137 | 5415 | 820 | 24 x M24 | 745 | 152 | 197 | 560 | 508 | 24 | 293 |
| | | 430 | 1200 | 5581 | | | | | | | | | |
| | | 450 | 1331 | 5914 | | | | | | | | | |
| HSD 530 - 21 | 530 | 450 | 1376 | 6114 | 1210 | 24 x M27 | 790 | 166 | 209 | 594 | 540 | 20 | 359 |
| | | 460 | 1446 | 6287 | | | | | | | | | |
| | | 480 | 1592 | 6635 | | | | | | | | | |
| HSD 560 - 21 | 560 | 480 | 1578 | 6576 | 1210 | 28 x M27 | 830 | 166 | 211 | 626 | 570 | 22 | 393 |
| | | 490 | 1653 | 6748 | | | | | | | | | |
| | | 510 | 1809 | 7093 | | | | | | | | | |
| HSD 590 - 21 | 590 | 510 | 1873 | 7344 | 1210 | 24 x M27 | 880 | 172 | 219 | 658 | 599 | 26 | 452 |
| | | 520 | 1957 | 7526 | | | | | | | | | |
| | | 540 | 2131 | 7891 | | | | | | | | | |
| HSD 620 - 21 | 620 | 540 | 2097 | 7768 | 1210 | 24 x M27 | 930 | 172 | 222 | 690 | 629 | 28 | 516 |
| | | 550 | 2186 | 7948 | | | | | | | | | |
| | | 570 | 2368 | 8309 | | | | | | | | | |
| HSD 660 - 21 | 660 | 570 | 2426 | 8511 | 1640 | 24 x M30 | 990 | 182 | 235 | 734 | 670 | 29 | 619 |
| | | 580 | 2522 | 8696 | | | | | | | | | |
| | | 610 | 2823 | 9255 | | | | | | | | | |
| HSD 700 - 21 | 700 | 610 | 2772 | 9088 | 1640 | 24 x M30 | 1040 | 182 | 234 | 774 | 710 | 28 | 694 |
| | | 620 | 2874 | 9271 | | | | | | | | | |
| | | 640 | 3084 | 9638 | | | | | | | | | |
| HSD 750 - 21 | 750 | 640 | 3104 | 9700 | 1640 | 28 x M30 | 1100 | 192 | 246 | 826 | 760 | 30 | 777 |
| | | 650 | 3214 | 9888 | | | | | | | | | |
| | | 680 | 3555 | 10456 | | | | | | | | | |
| HSD 800 - 21 | 800 | 680 | 3443 | 10128 | 1640 | 28 x M30 | 1150 | 192 | 248 | 876 | 809 | 32 | 819 |
| | | 700 | 3673 | 10495 | | | | | | | | | |
| | | 730 | 4033 | 11049 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 660 - 21 x 660

STÜWE® Shrink Disc Type HSD Series 22



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 22

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|-------------|---------|----------------------|-----------------------|-----------------------|----------------------|--------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 12 - 22 | | 9 | 0.02 | 5 | 12 | 3x M6 | 35 | 10 | 16 | 24 | 13 | 2 | 0.1 |
| | | 10 | 0.04 | 8 | | | | | | | | | |
| HSD 14 - 22 | | 11 | 0.03 | 6 | 12 | 3 x M6 | 38 | 10 | 16 | 26 | 15 | 2 | 0.1 |
| | | 12 | 0.05 | 9 | | | | | | | | | |
| HSD 16 - 22 | | 13 | 0.07 | 10 | 12 | 3 x M6 | 41 | 13.5 | 20 | 28 | 17 | 2.5 | 0.1 |
| | | 14 | 0.09 | 13 | | | | | | | | | |
| HSD 18 - 22 | | 15 | 0.08 | 11 | 12 | 4x M6 | 44 | 13.5 | 20 | 30 | 19 | 2.5 | 0.1 |
| | | 16 | 0.11 | 14 | | | | | | | | | |
| HSD 20 - 22 | | 17 | 0.15 | 18 | 12 | 4 x M6 | 47 | 13.5 | 20 | 32 | 21 | 2.5 | 0.2 |
| | | 18 | 0.18 | 20 | | | | | | | | | |
| HSD 24 - 22 | | 19 | 0.16 | 17 | 12 | 5 x M6 | 50 | 14 | 23 | 36 | 26 | 2.5 | 0.2 |
| | | 20 | 0.20 | 20 | | | | | | | | | |
| | | 22 | 0.28 | 25 | | | | | | | | | |
| HSD 30 - 22 | | 24 | 0.27 | 23 | 12 | 6 x M6 | 60 | 16 | 26 | 44 | 32 | 3 | 0.4 |
| | | 25 | 0.32 | 25 | | | | | | | | | |
| | | 26 | 0.36 | 28 | | | | | | | | | |
| HSD 36 - 22 | | 28 | 0.49 | 35 | 29 | 5 x M8 | 72 | 18 | 29 | 52 | 38 | 3.4 | 0.5 |
| | | 30 | 0.61 | 41 | | | | | | | | | |
| | | 33 | 0.82 | 50 | | | | | | | | | |
| HSD 44 - 22 | | 34 | 0.69 | 41 | 29 | 6 x M8 | 80 | 20 | 33 | 61 | 47 | 4.7 | 0.7 |
| | | 35 | 0.77 | 44 | | | | | | | | | |
| | | 36 | 0.84 | 47 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 44 - 22 x 42

Shrink Disc Type HSD – Series 22

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|-------------------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 50 - 22 | 50 | 38 | 1.10 | 58 | 29 | 8 x M8 | 90 | 22 | 34 | 68 | 53 | 4.4 | 0.9 |
| | | 40 | 1.29 | 65 | | | | | | | | | |
| | | 42 | 1.50 | 71 | | | | | | | | | |
| HSD 55 - 22 | 55 | 42 | 1.23 | 59 | 29 | 8 x M8 | 100 | 23 | 36 | 72 | 58 | 4.4 | 1.2 |
| | | 45 | 1.53 | 68 | | | | | | | | | |
| | | 48 | 1.86 | 78 | | | | | | | | | |
| HSD 62 - 22 | 62 60 | 48 | 1.67 | 70 | 29 | 9 x M8 | 110 | 23 | 36 | 80 | 66 | 4.4 | 1.4 |
| | | 50 | 1.89 | 76 | | | | | | | | | |
| | | 52 | 2.12 | 81 | | | | | | | | | |
| HSD 68 - 22 | 68 | 50 | 1.87 | 75 | 29 | 9 x M8 | 115 | 23 | 36 | 86 | 72 | 4.4 | 1.4 |
| | | 55 | 2.45 | 89 | | | | | | | | | |
| | | 60 | 3.12 | 104 | | | | | | | | | |
| HSD 75 - 22 | 75 | 55 | 2.33 | 85 | 58 | 10 x M10 | 138 | 25 | 40 | 100 | 79 | 4.6 | 2.5 |
| | | 60 | 3.02 | 101 | | | | | | | | | |
| | | 65 | 3.80 | 117 | | | | | | | | | |
| HSD 80 - 22 | 80 | 60 | 3.19 | 106 | 58 | 10 x M10 | 141 | 25 | 40 | 104 | 84 | 4.6 | 2.5 |
| | | 65 | 4.00 | 123 | | | | | | | | | |
| | | 70 | 4.90 | 140 | | | | | | | | | |
| HSD 90 - 22 | 90 85 | 65 | 5.4 | 166 | 58 | 10 x M10 | 155 | 30 | 46 | 114 | 94 | 5.1 | 3.5 |
| | | 70 | 6.5 | 187 | | | | | | | | | |
| | | 75 | 7.8 | 208 | | | | | | | | | |
| HSD 100 - 22 | 100 95 | 70 | 6.0 | 171 | 58 | 12 x M10 | 170 | 34 | 51 | 124 | 104 | 5.1 | 4.7 |
| | | 75 | 7.2 | 192 | | | | | | | | | |
| | | 80 | 8.5 | 213 | | | | | | | | | |
| HSD 110 - 22 | 110 105 | 80 | 10.0 | 249 | 100 | 12 x M12 | 185 | 39 | 59 | 137 | 114 | 5.5 | 6.3 |
| | | 85 | 11.7 | 275 | | | | | | | | | |
| | | 90 | 13.6 | 302 | | | | | | | | | |
| HSD 120 - 22 | 120 115 | 85 | 11.9 | 280 | 100 | 12 x M12 | 197 | 42 | 63 | 147 | 124 | 6.5 | 7.4 |
| | | 90 | 13.8 | 307 | | | | | | | | | |
| | | 95 | 15.9 | 334 | | | | | | | | | |
| HSD 125 - 22 | 125 | 90 | 14.4 | 319 | 100 | 12 x M12 | 215 | 42 | 63 | 152 | 129 | 6.5 | 9.3 |
| | | 95 | 16.5 | 347 | | | | | | | | | |
| | | 100 | 18.7 | 375 | | | | | | | | | |
| HSD 135 - 22 | 135 130 | 95 | 18.1 | 382 | 160 | 10 x M14 | 230 | 46 | 69 | 165 | 139 | 7.2 | 11.5 |
| | | 100 | 20.6 | 412 | | | | | | | | | |
| | | 110 | 26.0 | 473 | | | | | | | | | |
| HSD 140 - 22 | 140 | 100 | 19.6 | 392 | 160 | 12 x M14 | 230 | 46 | 70 | 172 | 146 | 8.2 | 11.1 |
| | | 105 | 22.1 | 421 | | | | | | | | | |
| | | 115 | 27.6 | 481 | | | | | | | | | |
| HSD 155 - 22 | 155 150 | 110 | 26.5 | 482 | 160 | 12 x M14 | 263 | 50 | 74 | 186 | 159 | 8.7 | 15.9 |
| | | 115 | 29.5 | 514 | | | | | | | | | |
| | | 125 | 36.1 | 578 | | | | | | | | | |
| HSD 165 - 22 | 165 160 | 120 | 37.3 | 622 | 240 | 12 x M16 | 290 | 56 | 85 | 198 | 169 | 9 | 22.2 |
| | | 125 | 41.2 | 659 | | | | | | | | | |
| | | 135 | 49.6 | 734 | | | | | | | | | |
| HSD 175 - 22 | 175 170 | 130 | 45 | 692 | 240 | 12 x M16 | 300 | 56 | 85 | 208 | 179 | 9 | 23.3 |
| | | 135 | 49 | 730 | | | | | | | | | |
| | | 145 | 58 | 805 | | | | | | | | | |
| HSD 185 - 22 | 185 180 | 140 | 64 | 916 | 240 | 16 x M16 | 320 | 71 | 102 | 222 | 191 | 10 | 33.3 |
| | | 145 | 70 | 961 | | | | | | | | | |
| | | 155 | 82 | 1053 | | | | | | | | | |
| HSD 200 - 22 | 200 195 190 | 150 | 80 | 1073 | 240 | 16 x M16 | 340 | 71 | 102 | 238 | 206 | 10 | 36.9 |
| | | 155 | 87 | 1120 | | | | | | | | | |
| | | 165 | 100 | 1216 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 200 - 22 x 195

Shrink Disc Type HSD – Series 22

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 220 - 22 | 220 | 160 | 103 | 1283 | 470 | 15 x M20 | 370 | 93 | 121 | 270 | 230 | 12 | 51.5 |
| | | 170 | 119 | 1395 | | | | | | | | | |
| | | 180 | 136 | 1509 | | | | | | | | | |
| HSD 240 - 22 | 240 | 170 | 122 | 1439 | 470 | 16 x M20 | 405 | 95 | 124 | 288 | 248 | 12 | 63.9 |
| | | 180 | 140 | 1555 | | | | | | | | | |
| | | 200 | 179 | 1790 | | | | | | | | | |
| HSD 260 - 22 | 260 | 190 | 163 | 1715 | 470 | 15 x M20 | 430 | 105 | 136 | 306 | 268 | 14 | 77.5 |
| | | 200 | 184 | 1842 | | | | | | | | | |
| | | 220 | 231 | 2099 | | | | | | | | | |
| HSD 280 - 22 | 280 | 210 | 215 | 2051 | 470 | 16 x M20 | 460 | 114 | 146 | 328 | 288 | 16 | 94.7 |
| | | 220 | 240 | 2186 | | | | | | | | | |
| | | 240 | 295 | 2458 | | | | | | | | | |
| HSD 300 - 22 | 300 | 220 | 270 | 2456 | 820 | 16 x M24 | 485 | 123 | 158 | 354 | 309 | 16 | 112 |
| | | 230 | 300 | 2605 | | | | | | | | | |
| | | 250 | 363 | 2906 | | | | | | | | | |
| HSD 320 - 22 | 320 | 240 | 301 | 2511 | 820 | 18 x M24 | 520 | 125 | 159 | 380 | 328 | 14 | 133 |
| | | 250 | 332 | 2655 | | | | | | | | | |
| | | 270 | 398 | 2945 | | | | | | | | | |
| HSD 340 - 22 | 340 | 250 | 390 | 3118 | 820 | 18 x M24 | 570 | 134 | 171 | 402 | 349 | 16 | 177 |
| | | 260 | 427 | 3283 | | | | | | | | | |
| | | 280 | 506 | 3617 | | | | | | | | | |
| HSD 350 - 22 | 350 | 270 | 493 | 3649 | 820 | 20 x M24 | 580 | 140 | 178 | 414 | 365 | 16 | 190 |
| | | 280 | 535 | 3825 | | | | | | | | | |
| | | 290 | 580 | 4001 | | | | | | | | | |
| HSD 360 - 22 | 360 | 270 | 496 | 3676 | 820 | 20 x M24 | 590 | 140 | 179 | 416 | 369 | 17 | 194 |
| | | 280 | 539 | 3852 | | | | | | | | | |
| | | 300 | 631 | 4206 | | | | | | | | | |
| HSD 380 - 22 | 380 | 290 | 585 | 4034 | 1210 | 18 x M27 | 640 | 146 | 188 | 444 | 388 | 19 | 244 |
| | | 300 | 632 | 4215 | | | | | | | | | |
| | | 310 | 681 | 4397 | | | | | | | | | |
| HSD 390 - 22 | 390 | 290 | 640 | 4411 | 1210 | 18 x M27 | 645 | 146 | 189 | 454 | 398 | 20 | 243 |
| | | 300 | 691 | 4605 | | | | | | | | | |
| | | 320 | 799 | 4996 | | | | | | | | | |
| HSD 420 - 22 | 420 | 320 | 742 | 4640 | 1210 | 18 x M27 | 670 | 167 | 210 | 490 | 428 | 20 | 286 |
| | | 330 | 797 | 4829 | | | | | | | | | |
| | | 350 | 912 | 5209 | | | | | | | | | |
| HSD 440 - 22 | 440 | 340 | 945 | 5557 | 1210 | 21 x M27 | 710 | 174 | 219 | 506 | 448 | 22 | 339 |
| | | 350 | 1009 | 5764 | | | | | | | | | |
| | | 370 | 1143 | 6181 | | | | | | | | | |
| HSD 460 - 22 | 460 | 360 | 1104 | 6133 | 1210 | 21 x M27 | 745 | 174 | 222 | 534 | 470 | 25 | 375 |
| | | 370 | 1174 | 6345 | | | | | | | | | |
| | | 390 | 1320 | 6771 | | | | | | | | | |
| HSD 480 - 22 | 480 | 380 | 1300 | 6843 | 1640 | 20 x M30 | 770 | 192 | 239 | 552 | 488 | 22 | 437 |
| | | 390 | 1378 | 7066 | | | | | | | | | |
| | | 410 | 1541 | 7516 | | | | | | | | | |
| HSD 500 - 22 | 500 | 400 | 1496 | 7478 | 1640 | 21 x M30 | 800 | 192 | 241 | 572 | 509 | 24 | 470 |
| | | 410 | 1581 | 7711 | | | | | | | | | |
| | | 430 | 1759 | 8180 | | | | | | | | | |
| HSD 530 - 22 | 530 | 430 | 1930 | 8976 | 1640 | 24 x M30 | 845 | 213 | 266 | 606 | 540 | 29 | 576 |
| | | 440 | 2031 | 9234 | | | | | | | | | |
| | | 460 | 2243 | 9752 | | | | | | | | | |
| HSD 560 - 22 | 560 | 450 | 2097 | 9318 | 1640 | 24 x M30 | 900 | 213 | 264 | 632 | 568 | 27 | 660 |
| | | 460 | 2201 | 9572 | | | | | | | | | |
| | | 480 | 2420 | 10081 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 280 - 22 x 280

Shrink Disc Type HSD – Series 22

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|---------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 590 - 22 | 590 | 470 | 2593 | 11032 | 1640 | 28 x M30 | 950 | 230 | 287 | 664 | 598 | 32 | 821 |
| | | 480 | 2715 | 11314 | | | | | | | | | |
| | | 500 | 2970 | 11881 | | | | | | | | | |
| HSD 620 - 22 | 620 | 500 | 2904 | 11616 | 1640 | 28 x M30 | 960 | 254 | 310 | 706 | 630 | 30 | 872 |
| | | 520 | 3169 | 12190 | | | | | | | | | |
| | | 540 | 3447 | 12767 | | | | | | | | | |
| HSD 660 - 22 | 660 | 530 | 3329 | 12562 | 2210 | 24 x M33 | 1020 | 260 | 320 | 748 | 670 | 34 | 1004 |
| | | 550 | 3614 | 13140 | | | | | | | | | |
| | | 570 | 3911 | 13722 | | | | | | | | | |
| HSD 700 - 22 | 700 | 560 | 3804 | 13585 | 2210 | 28 x M33 | 1080 | 260 | 318 | 780 | 710 | 32 | 1141 |
| | | 580 | 4109 | 14169 | | | | | | | | | |
| | | 600 | 4427 | 14756 | | | | | | | | | |
| HSD 750 - 22 | 750 | 600 | 4801 | 16004 | 2210 | 32 x M33 | 1150 | 278 | 344 | 846 | 760 | 38 | 1346 |
| | | 620 | 5157 | 16636 | | | | | | | | | |
| | | 650 | 5716 | 17589 | | | | | | | | | |
| HSD 800 - 22 | 800 | 640 | 5620 | 17562 | 2210 | 30 x M33 | 1230 | 296 | 376 | 900 | 814 | 52 | 1646 |
| | | 660 | 6012 | 18219 | | | | | | | | | |
| | | 700 | 6839 | 19541 | | | | | | | | | |
| HSD 850 - 22 | 850 | 650 | 5942 | 18282 | 2850 | 30 x M36 | 1300 | 315 | 386 | 950 | 860 | 43 | 1942 |
| | | 700 | 6994 | 19983 | | | | | | | | | |
| | | 730 | 7669 | 21011 | | | | | | | | | |
| HSD 900 - 22 | 900 | 700 | 6967 | 19905 | 2850 | 32 x M36 | 1350 | 332 | 413 | 990 | 920 | 51 | 2142 |
| | | 730 | 7640 | 20930 | | | | | | | | | |
| | | 760 | 8345 | 21961 | | | | | | | | | |
| HSD 950 - 22 | 950 | 750 | 8295 | 22121 | 2850 | 36 x M36 | 1400 | 360 | 438 | 1050 | 970 | 50 | 2425 |
| | | 780 | 9041 | 23182 | | | | | | | | | |
| | | 820 | 10088 | 24606 | | | | | | | | | |
| HSD 1000 - 22 | 1000 | 800 | 9568 | 23920 | 2850 | 36 x M36 | 1460 | 380 | 461 | 1100 | 1020 | 53 | 2740 |
| | | 830 | 10380 | 25013 | | | | | | | | | |
| | | 860 | 11228 | 26111 | | | | | | | | | |
| HSD 1050 - 22 | 1050 | 850 | 11241 | 26449 | 2850 | 36 x M36 | 1520 | 400 | 481 | 1150 | 1070 | 53 | 3078 |
| | | 880 | 12135 | 27579 | | | | | | | | | |
| | | 920 | 13383 | 29092 | | | | | | | | | |
| HSD 1100 - 22 | 1100 | 900 | 13045 | 28990 | 2850 | 40 x M36 | 1570 | 430 | 511 | 1200 | 1120 | 53 | 3438 |
| | | 930 | 14023 | 30156 | | | | | | | | | |
| | | 960 | 15038 | 31328 | | | | | | | | | |
| HSD 1200 - 22 | 1200 | 940 | 12902 | 27452 | 2850 | 40 x M36 | 1630 | 460 | 541 | 1300 | 1220 | 53 | 3566 |
| | | 1000 | 14803 | 29606 | | | | | | | | | |
| | | 1050 | 16493 | 31415 | | | | | | | | | |

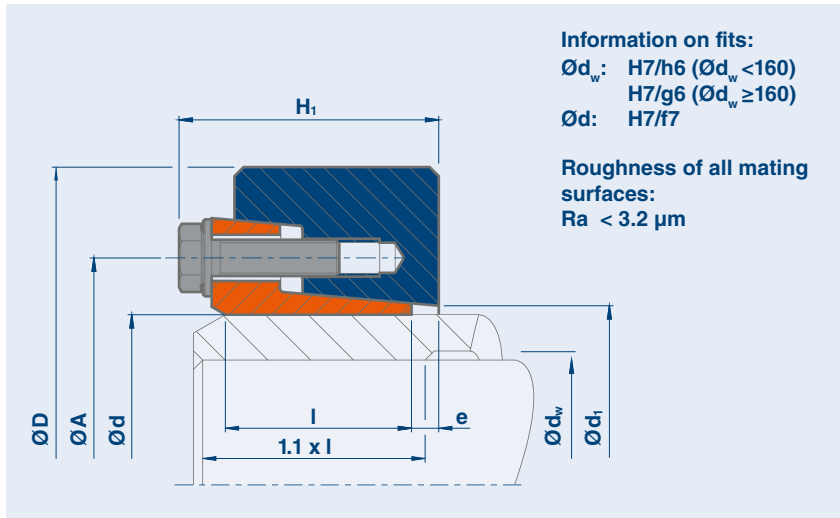
Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9

M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 750 - 22 x 750

STÜWE® Shrink Disc Type HSD Series 23



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 23

| Type | d mm | d_w mm | M_t kNm | P_{ax} kN | M_a Nm | B^* | D mm | l mm | H_1 mm | A mm | d_1 mm | e mm | kg |
|--------------|---------|-------------|--------------|----------------|-------------|----------|---------|---------|-------------|---------|-------------|---------|------|
| HSD 140 - 23 | 140 | 100 | 26 | 523 | 240 | 8 x M16 | 230 | 60 | 89 | 174 | 144 | 10 | 13.6 |
| | 135 | 105 | 30 | 562 | | | | | | | | | |
| | | 115 | 37 | 641 | | | | | | | | | |
| HSD 155 - 23 | 155 | 110 | 36 | 646 | 240 | 9 x M16 | 263 | 66 | 95 | 194 | 160 | 11 | 19.8 |
| | 150 | 115 | 40 | 687 | | | | | | | | | |
| | | 125 | 48 | 772 | | | | | | | | | |
| HSD 165 - 23 | 165 | 120 | 50 | 828 | 240 | 12 x M16 | 290 | 72 | 102 | 200 | 169 | 10 | 27.7 |
| | 160 | 125 | 55 | 877 | | | | | | | | | |
| | | 135 | 66 | 977 | | | | | | | | | |
| HSD 175 - 23 | 175 | 130 | 61 | 943 | 240 | 12 x M16 | 300 | 72 | 103 | 210 | 179 | 11 | 29 |
| | 170 | 135 | 67 | 993 | | | | | | | | | |
| | | 145 | 79 | 1094 | | | | | | | | | |
| HSD 185 - 23 | 185 | 140 | 89 | 1269 | 470 | 12 x M20 | 320 | 92 | 122 | 232 | 190 | 12 | 40.1 |
| | 180 | 145 | 96 | 1330 | | | | | | | | | |
| | | 155 | 113 | 1455 | | | | | | | | | |
| HSD 200 - 23 | 200 | 150 | 104 | 1391 | 470 | 12 x M20 | 340 | 92 | 125 | 246 | 204 | 15 | 44.5 |
| | 195 | 155 | 113 | 1453 | | | | | | | | | |
| | | 165 | 130 | 1577 | | | | | | | | | |
| HSD 220 - 23 | 220 | 160 | 127 | 1591 | 470 | 15 x M20 | 370 | 117 | 148 | 266 | 225 | 14 | 65.3 |
| | | 165 | 137 | 1661 | | | | | | | | | |
| | | 180 | 169 | 1876 | | | | | | | | | |
| HSD 240 - 23 | 240 | 170 | 157 | 1847 | 470 | 16 x M20 | 405 | 122 | 154 | 286 | 245 | 15 | 81.6 |
| | | 180 | 180 | 1996 | | | | | | | | | |
| | | 200 | 230 | 2300 | | | | | | | | | |
| HSD 260 - 23 | 260 | 190 | 230 | 2424 | 470 | 18 x M20 | 430 | 136 | 171 | 306 | 266 | 17 | 101 |
| | | 200 | 260 | 2600 | | | | | | | | | |
| | | 220 | 325 | 2957 | | | | | | | | | |
| HSD 280 - 23 | 280 | 210 | 306 | 2918 | 820 | 16 x M24 | 460 | 148 | 185 | 334 | 286 | 16 | 126 |
| | | 220 | 342 | 3105 | | | | | | | | | |
| | | 240 | 418 | 3485 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x $\text{Ø}d$) e.g. HSD 240 - 23 x 240

Shrink Disc Type HSD – Series 23

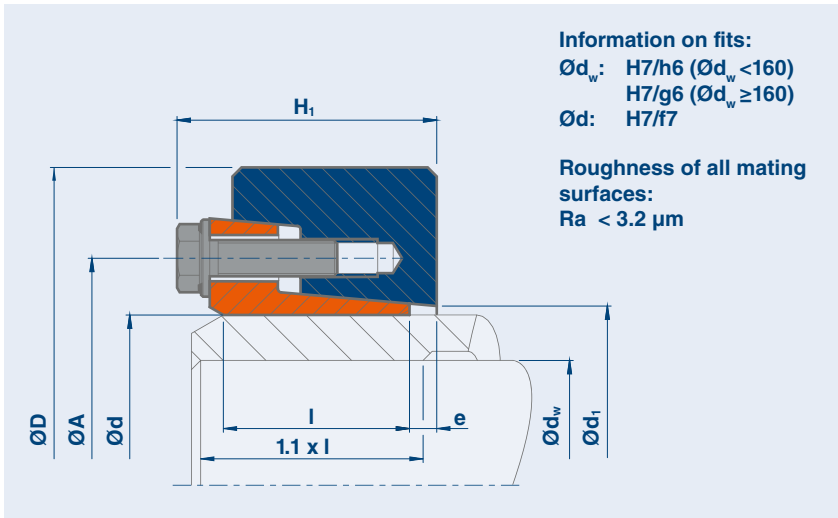
| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 300 - 23 | 300 | 230 | 360 | 3132 | 820 | 16 x M24 | 485 | 152 | 191 | 354 | 306 | 18 | 140 |
| | | 240 | 398 | 3314 | | | | | | | | | |
| | | 250 | 437 | 3498 | | | | | | | | | |
| HSD 320 - 23 | 320 | 240 | 430 | 3580 | 820 | 18 x M24 | 520 | 160 | 199 | 374 | 325 | 18 | 171 |
| | | 250 | 473 | 3781 | | | | | | | | | |
| | | 270 | 565 | 4186 | | | | | | | | | |
| HSD 340 - 23 | 340 | 250 | 551 | 4407 | 1210 | 18 x M27 | 560 | 176 | 219 | 404 | 346 | 19 | 221 |
| | | 260 | 603 | 4637 | | | | | | | | | |
| | | 280 | 714 | 5100 | | | | | | | | | |
| HSD 360 - 23 | 360 | 270 | 671 | 4969 | 1210 | 18 x M27 | 590 | 180 | 224 | 424 | 366 | 20 | 249 |
| | | 280 | 729 | 5204 | | | | | | | | | |
| | | 300 | 852 | 5679 | | | | | | | | | |
| HSD 390 - 23 | 390 | 290 | 850 | 5860 | 1210 | 20 x M27 | 650 | 190 | 238 | 456 | 399 | 24 | 324 |
| | | 300 | 917 | 6116 | | | | | | | | | |
| | | 320 | 1061 | 6633 | | | | | | | | | |
| HSD 420 - 23 | 420 | 320 | 1008 | 6301 | 1210 | 21 x M27 | 670 | 214 | 264 | 486 | 428 | 26 | 367 |
| | | 330 | 1082 | 6555 | | | | | | | | | |
| | | 350 | 1237 | 7067 | | | | | | | | | |
| HSD 440 - 23 | 440 | 340 | 1218 | 7166 | 1640 | 21 x M30 | 740 | 229 | 279 | 514 | 448 | 25 | 508 |
| | | 350 | 1301 | 7433 | | | | | | | | | |
| | | 370 | 1475 | 7972 | | | | | | | | | |
| HSD 460 - 23 | 460 | 360 | 1402 | 7791 | 1640 | 21 x M30 | 750 | 226 | 278 | 534 | 469 | 28 | 485 |
| | | 370 | 1491 | 8062 | | | | | | | | | |
| | | 390 | 1678 | 8606 | | | | | | | | | |
| HSD 480 - 23 | 480 | 380 | 1712 | 9008 | 1640 | 21 x M30 | 760 | 246 | 305 | 552 | 488 | 33 | 537 |
| | | 390 | 1814 | 9302 | | | | | | | | | |
| | | 410 | 2028 | 9893 | | | | | | | | | |
| HSD 500 - 23 | 500 | 400 | 1993 | 9963 | 1640 | 24 x M30 | 800 | 246 | 303 | 572 | 508 | 31 | 604 |
| | | 410 | 2106 | 10273 | | | | | | | | | |
| | | 430 | 2342 | 10895 | | | | | | | | | |
| HSD 530 - 23 | 530 | 430 | 2549 | 11857 | 2210 | 21 x M33 | 860 | 276 | 341 | 616 | 539 | 36 | 794 |
| | | 440 | 2683 | 12196 | | | | | | | | | |
| | | 460 | 2962 | 12878 | | | | | | | | | |
| HSD 560 - 23 | 560 | 450 | 2849 | 12660 | 2210 | 24 x M33 | 900 | 280 | 341 | 646 | 568 | 34 | 867 |
| | | 460 | 2990 | 13002 | | | | | | | | | |
| | | 480 | 3285 | 13689 | | | | | | | | | |
| HSD 590 - 23 | 590 | 470 | 3310 | 14084 | 2210 | 24 x M33 | 960 | 296 | 366 | 672 | 598 | 40 | 1071 |
| | | 480 | 3467 | 14446 | | | | | | | | | |
| | | 500 | 3793 | 15171 | | | | | | | | | |
| HSD 620 - 23 | 620 | 500 | 4069 | 16276 | 2210 | 27 x M33 | 1000 | 330 | 401 | 706 | 630 | 41 | 1279 |
| | | 510 | 4251 | 16672 | | | | | | | | | |
| | | 540 | 4824 | 17866 | | | | | | | | | |
| HSD 660 - 23 | 660 | 530 | 4746 | 17909 | 2850 | 28 x M36 | 1070 | 334 | 402 | 750 | 670 | 40 | 1475 |
| | | 540 | 4944 | 18313 | | | | | | | | | |
| | | 570 | 5566 | 19530 | | | | | | | | | |
| HSD 700 - 23 | 700 | 560 | 5316 | 18985 | 2850 | 27 x M36 | 1070 | 334 | 413 | 800 | 710 | 45 | 1387 |
| | | 570 | 5525 | 19387 | | | | | | | | | |
| | | 600 | 6179 | 20596 | | | | | | | | | |
| HSD 750 - 23 | 750 | 600 | 6326 | 21086 | 2850 | 32 x M36 | 1170 | 360 | 431 | 850 | 760 | 44 | 1810 |
| | | 620 | 6794 | 21917 | | | | | | | | | |
| | | 650 | 7530 | 23169 | | | | | | | | | |
| HSD 800 - 23 | 800 | 640 | 7358 | 22993 | 2850 | 32 x M36 | 1280 | 360 | 439 | 900 | 810 | 51 | 2290 |
| | | 660 | 7871 | 23851 | | | | | | | | | |
| | | 700 | 8952 | 25576 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 10.9, alternative DINENISO4762 Grade 10.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 420 - 23 x 420

STÜWE® Shrink Disc Type HSD Series 81



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 81

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 50 - 81 | 50 | 38 | 1.5 | 79 | 35 | 8 x M8 | 90 | 22 | 34 | 68 | 53 | 4.4 | 0.9 |
| | | 40 | 1.7 | 87 | | | | | | | | | |
| | | 42 | 2.0 | 94 | | | | | | | | | |
| HSD 55 - 81 | 55 | 42 | 1.6 | 78 | 35 | 8 x M8 | 100 | 23 | 36 | 72 | 58 | 4.4 | 1.2 |
| | | 45 | 2.0 | 88 | | | | | | | | | |
| | | 48 | 2.4 | 99 | | | | | | | | | |
| HSD 62 - 81 | 62 | 48 | 2.2 | 92 | 35 | 9 x M8 | 110 | 23 | 36 | 80 | 66 | 4.4 | 1.4 |
| | | 60 | 2.5 | 98 | | | | | | | | | |
| | | 52 | 2.7 | 105 | | | | | | | | | |
| HSD 68 - 81 | 68 | 50 | 2.4 | 94 | 35 | 9 x M8 | 115 | 23 | 36 | 86 | 72 | 4.4 | 1.4 |
| | | 55 | 3.0 | 111 | | | | | | | | | |
| | | 60 | 3.8 | 128 | | | | | | | | | |
| HSD 75 - 81 | 75 | 55 | 3.7 | 135 | 70 | 10 x M10 | 138 | 25 | 40 | 100 | 79 | 4.6 | 2.5 |
| | | 60 | 4.7 | 156 | | | | | | | | | |
| | | 65 | 5.8 | 177 | | | | | | | | | |
| HSD 80 - 81 | 80 | 60 | 4.2 | 141 | 70 | 10 x M10 | 141 | 25 | 41 | 104 | 84 | 5.6 | 2.5 |
| | | 65 | 5.2 | 160 | | | | | | | | | |
| | | 70 | 6.3 | 180 | | | | | | | | | |
| HSD 90 - 81 | 90 | 65 | 5.9 | 182 | 70 | 10 x M10 | 155 | 30 | 47 | 114 | 94 | 6.1 | 3.5 |
| | | 85 | 7.2 | 204 | | | | | | | | | |
| | | 75 | 8.5 | 227 | | | | | | | | | |
| HSD 100 - 81 | 100 | 70 | 7.4 | 213 | 70 | 12 x M10 | 170 | 34 | 51 | 124 | 104 | 5.1 | 4.7 |
| | | 95 | 8.9 | 236 | | | | | | | | | |
| | | 80 | 10.4 | 260 | | | | | | | | | |
| HSD 110 - 81 | 110 | 80 | 12.6 | 314 | 120 | 12 x M12 | 185 | 39 | 60 | 137 | 114 | 6.5 | 6.3 |
| | | 105 | 14.6 | 345 | | | | | | | | | |
| | | 90 | 16.9 | 376 | | | | | | | | | |
| HSD 120 - 81 | 120 | 85 | 13.6 | 320 | 120 | 12 x M12 | 197 | 42 | 63 | 147 | 124 | 6.5 | 7.8 |
| | | 115 | 15.7 | 349 | | | | | | | | | |
| | | 95 | 18.0 | 379 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 12.9, alternative DINENISO4762 Grade 12.9
 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 62 - 81 x 60

Shrink Disc Type HSD – Series 81

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 125 - 81 | 125 | 90 | 16.4 | 365 | 120 | 12 x M12 | 215 | 42 | 63 | 152 | 129 | 6.5 | 9.3 |
| | | 95 | 18.8 | 395 | | | | | | | | | |
| | | 100 | 21.3 | 425 | | | | | | | | | |
| HSD 135 - 81 | 135 | 95 | 20.3 | 428 | 193 | 10 x M14 | 230 | 46 | 69 | 165 | 139 | 7.2 | 11.5 |
| | | 130 | 23.0 | 461 | | | | | | | | | |
| | | 110 | 29.0 | 527 | | | | | | | | | |
| HSD 140 - 81 | 140 | 100 | 23.0 | 460 | 193 | 12 x M14 | 230 | 46 | 70 | 172 | 146 | 8.2 | 11.5 |
| | | 105 | 25.9 | 493 | | | | | | | | | |
| | | 115 | 32.2 | 561 | | | | | | | | | |
| HSD 155 - 81 | 155 | 110 | 31.1 | 566 | 193 | 12 x M14 | 263 | 50 | 74 | 186 | 159 | 8.7 | 16 |
| | | 150 | 34.6 | 602 | | | | | | | | | |
| | | 125 | 42.1 | 673 | | | | | | | | | |
| HSD 165 - 81 | 165 | 120 | 44.0 | 734 | 295 | 12 x M16 | 290 | 56 | 85 | 198 | 169 | 9 | 22.5 |
| | | 160 | 48.5 | 776 | | | | | | | | | |
| | | 135 | 58.1 | 860 | | | | | | | | | |
| HSD 175 - 81 | 175 | 130 | 54 | 831 | 295 | 12 x M16 | 300 | 56 | 86 | 208 | 179 | 10 | 23.5 |
| | | 170 | 59 | 874 | | | | | | | | | |
| | | 145 | 70 | 960 | | | | | | | | | |
| HSD 185 - 81 | 185 | 140 | 81 | 1153 | 295 | 16 x M16 | 320 | 71 | 103 | 222 | 191 | 11 | 33.5 |
| | | 180 | 88 | 1207 | | | | | | | | | |
| | | 155 | 102 | 1315 | | | | | | | | | |
| HSD 200 - 81 | 200 | 150 | 96 | 1280 | 295 | 16 x M16 | 340 | 71 | 103 | 238 | 206 | 11 | 37 |
| | | 195 | 103 | 1335 | | | | | | | | | |
| | | 190 | 119 | 1446 | | | | | | | | | |
| HSD 220 - 81 | 220 | 160 | 129 | 1614 | 570 | 15 x M20 | 370 | 93 | 122 | 270 | 230 | 13 | 52 |
| | | 170 | 149 | 1751 | | | | | | | | | |
| | | 180 | 170 | 1888 | | | | | | | | | |
| HSD 240 - 81 | 240 | 170 | 151 | 1778 | 570 | 16 x M20 | 405 | 95 | 125 | 288 | 248 | 13 | 64 |
| | | 180 | 172 | 1916 | | | | | | | | | |
| | | 200 | 220 | 2195 | | | | | | | | | |
| HSD 260 - 81 | 260 | 190 | 212 | 2234 | 570 | 15 x M20 | 430 | 105 | 137 | 306 | 268 | 15 | 78 |
| | | 200 | 239 | 2391 | | | | | | | | | |
| | | 220 | 298 | 2707 | | | | | | | | | |
| HSD 280 - 81 | 280 | 210 | 279 | 2657 | 570 | 16 x M20 | 460 | 114 | 149 | 328 | 288 | 19 | 95 |
| | | 220 | 311 | 2823 | | | | | | | | | |
| | | 240 | 379 | 3158 | | | | | | | | | |
| HSD 300 - 81 | 300 | 220 | 332 | 3016 | 900 | 16 x M24 | 485 | 123 | 158 | 354 | 308 | 16 | 113 |
| | | 230 | 367 | 3194 | | | | | | | | | |
| | | 250 | 444 | 3554 | | | | | | | | | |
| HSD 320 - 81 | 320 | 240 | 404 | 3371 | 900 | 18 x M24 | 520 | 125 | 160 | 380 | 328 | 15 | 133 |
| | | 250 | 444 | 3554 | | | | | | | | | |
| | | 270 | 530 | 3924 | | | | | | | | | |
| HSD 340 - 81 | 340 | 250 | 489 | 3909 | 900 | 18 x M24 | 570 | 134 | 171 | 402 | 349 | 17 | 178 |
| | | 260 | 534 | 4109 | | | | | | | | | |
| | | 280 | 632 | 4511 | | | | | | | | | |
| HSD 360 - 81 | 360 | 270 | 625 | 4626 | 900 | 20 x M24 | 590 | 140 | 179 | 416 | 369 | 19 | 195 |
| | | 280 | 678 | 4841 | | | | | | | | | |
| | | 300 | 791 | 5275 | | | | | | | | | |
| HSD 390 - 81 | 390 | 290 | 780 | 5377 | 1310 | 18 x M27 | 650 | 146 | 190 | 454 | 398 | 21 | 249 |
| | | 300 | 841 | 5608 | | | | | | | | | |
| | | 320 | 972 | 6074 | | | | | | | | | |
| HSD 420 - 81 | 420 | 320 | 969 | 6055 | 1310 | 18 x M27 | 680 | 167 | 211 | 490 | 428 | 22 | 300 |
| | | 330 | 1038 | 6292 | | | | | | | | | |
| | | 350 | 1185 | 6769 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 12.9, alternative DINENISO4762 Grade 12.9
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 360 - 81 x 360

Shrink Disc Type HSD – Series 81

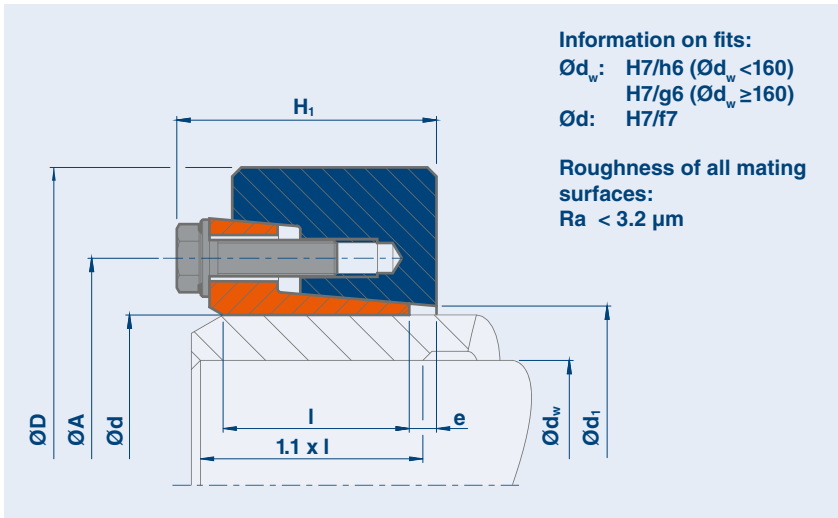
| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 440 - 81 | 440 | 340 | 1212 | 7129 | 1310 | 21 x M27 | 725 | 174 | 222 | 506 | 448 | 25 | 363 |
| | | 350 | 1293 | 7386 | | | | | | | | | |
| | | 370 | 1462 | 7904 | | | | | | | | | |
| HSD 460 - 81 | 460 | 360 | 1397 | 7759 | 1310 | 21 x M27 | 745 | 174 | 225 | 534 | 470 | 28 | 376 |
| | | 370 | 1484 | 8020 | | | | | | | | | |
| | | 390 | 1666 | 8545 | | | | | | | | | |
| HSD 480 - 81 | 480 | 380 | 1658 | 8729 | 1800 | 20 x M30 | 790 | 192 | 243 | 552 | 488 | 26 | 476 |
| | | 390 | 1756 | 9006 | | | | | | | | | |
| | | 410 | 1961 | 9564 | | | | | | | | | |
| HSD 500 - 81 | 500 | 400 | 1888 | 9441 | 1800 | 21 x M30 | 835 | 192 | 244 | 572 | 508 | 27 | 540 |
| | | 410 | 1994 | 9727 | | | | | | | | | |
| | | 430 | 2215 | 10304 | | | | | | | | | |
| HSD 530 - 81 | 530 | 430 | 2397 | 11148 | 1800 | 24 x M30 | 890 | 213 | 270 | 606 | 541 | 33 | 680 |
| | | 440 | 2521 | 11461 | | | | | | | | | |
| | | 460 | 2781 | 12090 | | | | | | | | | |
| HSD 560 - 81 | 560 | 450 | 2546 | 11314 | 1800 | 24 x M30 | 920 | 213 | 268 | 632 | 568 | 31 | 710 |
| | | 460 | 2672 | 11617 | | | | | | | | | |
| | | 480 | 2934 | 12225 | | | | | | | | | |
| HSD 590 - 81 | 590 | 470 | 2969 | 12634 | 1800 | 28 x M30 | 960 | 230 | 288 | 664 | 598 | 33 | 830 |
| | | 480 | 3109 | 12955 | | | | | | | | | |
| | | 500 | 3400 | 13600 | | | | | | | | | |
| HSD 620 - 81 | 620 | 500 | 3404 | 13617 | 1800 | 28 x M30 | 970 | 254 | 314 | 706 | 630 | 34 | 900 |
| | | 520 | 3713 | 14281 | | | | | | | | | |
| | | 540 | 4036 | 14949 | | | | | | | | | |
| HSD 660 - 81 | 660 | 530 | 4034 | 15222 | 2400 | 24 x M33 | 1060 | 260 | 326 | 748 | 670 | 38 | 1120 |
| | | 550 | 4373 | 15902 | | | | | | | | | |
| | | 570 | 4726 | 16584 | | | | | | | | | |
| HSD 700 - 81 | 700 | 560 | 4605 | 16447 | 2400 | 28 x M33 | 1140 | 260 | 321 | 780 | 710 | 35 | 1320 |
| | | 580 | 4969 | 17134 | | | | | | | | | |
| | | 600 | 5347 | 17823 | | | | | | | | | |
| HSD 750 - 81 | 750 | 600 | 5806 | 19354 | 2400 | 32 x M33 | 1200 | 278 | 345 | 846 | 760 | 42 | 1540 |
| | | 620 | 6231 | 20099 | | | | | | | | | |
| | | 650 | 6896 | 21219 | | | | | | | | | |
| HSD 800 - 81 | 800 | 640 | 6798 | 21244 | 2400 | 32 x M33 | 1270 | 296 | 376 | 900 | 810 | 54 | 1835 |
| | | 660 | 7265 | 22016 | | | | | | | | | |
| | | 700 | 8249 | 23569 | | | | | | | | | |
| HSD 850 - 81 | 850 | 650 | 7214 | 22197 | 3100 | 30 x M36 | 1340 | 315 | 392 | 950 | 860 | 49 | 2154 |
| | | 700 | 8470 | 24199 | | | | | | | | | |
| | | 730 | 9274 | 25408 | | | | | | | | | |
| HSD 900 - 81 | 900 | 700 | 8453 | 24152 | 3100 | 32 x M36 | 1400 | 332 | 419 | 990 | 915 | 56 | 2433 |
| | | 730 | 9256 | 25360 | | | | | | | | | |
| | | 760 | 10098 | 26573 | | | | | | | | | |
| HSD 950 - 81 | 950 | 750 | 10060 | 26826 | 3100 | 36 x M36 | 1450 | 360 | 444 | 1050 | 965 | 56 | 2752 |
| | | 780 | 10949 | 28076 | | | | | | | | | |
| | | 820 | 12197 | 29750 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 12.9, alternative DINENISO4762 Grade 12.9 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 950 - 81 x 950

STÜWE® Shrink Disc Type HSD Series 83



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD – Series 83

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 140 - 83 | 140 | 100 | 30 | 608 | 295 | 8 x M16 | 240 | 60 | 89 | 174 | 144 | 10 | 15.5 |
| | 135 | 105 | 34 | 652 | | | | | | | | | |
| | | 115 | 43 | 742 | | | | | | | | | |
| HSD 155 - 83 | 155 | 110 | 45 | 816 | 295 | 9 x M16 | 263 | 66 | 95 | 194 | 160 | 11 | 20 |
| | 150 | 115 | 50 | 867 | | | | | | | | | |
| | | 125 | 61 | 970 | | | | | | | | | |
| HSD 165 - 83 | 165 | 120 | 64 | 1062 | 295 | 12 x M16 | 290 | 72 | 103 | 200 | 169 | 11 | 28 |
| | 160 | 125 | 70 | 1122 | | | | | | | | | |
| | | 135 | 84 | 1244 | | | | | | | | | |
| HSD 175 - 83 | 175 | 130 | 74 | 1132 | 295 | 12 x M16 | 300 | 72 | 104 | 210 | 179 | 12 | 29 |
| | 170 | 135 | 80 | 1191 | | | | | | | | | |
| | | 145 | 95 | 1309 | | | | | | | | | |
| HSD 185 - 83 | 185 | 140 | 106 | 1519 | 570 | 12 x M20 | 320 | 92 | 124 | 232 | 189 | 14 | 40.5 |
| | 180 | 145 | 115 | 1592 | | | | | | | | | |
| | | 155 | 135 | 1737 | | | | | | | | | |
| HSD 200 - 83 | 200 | 150 | 127 | 1696 | 570 | 12 x M20 | 340 | 92 | 124 | 246 | 204 | 14 | 44.5 |
| | 195 | 155 | 137 | 1769 | | | | | | | | | |
| | | 165 | 158 | 1917 | | | | | | | | | |
| HSD 220 - 83 | 220 | 160 | 163 | 2042 | 570 | 15 x M20 | 370 | 117 | 149 | 266 | 224 | 15 | 65.5 |
| | | 165 | 176 | 2128 | | | | | | | | | |
| | | 180 | 215 | 2391 | | | | | | | | | |
| HSD 240 - 83 | 240 | 170 | 209 | 2459 | 570 | 16 x M20 | 405 | 122 | 154 | 286 | 244 | 15 | 82 |
| | | 180 | 238 | 2647 | | | | | | | | | |
| | | 200 | 303 | 3029 | | | | | | | | | |
| HSD 260 - 83 | 260 | 190 | 288 | 3036 | 570 | 18 x M20 | 430 | 136 | 173 | 306 | 265 | 19 | 100 |
| | | 200 | 325 | 3247 | | | | | | | | | |
| | | 220 | 404 | 3675 | | | | | | | | | |
| HSD 280 - 83 | 280 | 210 | 361 | 3437 | 900 | 16 x M24 | 460 | 148 | 186 | 334 | 285 | 17 | 126 |
| | | 220 | 402 | 3654 | | | | | | | | | |
| | | 240 | 491 | 4092 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade 12.9, alternative DINENISO4762 Grade 12.9
 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 200 - 83 x 195

Shrink Disc Type HSD – Series 83

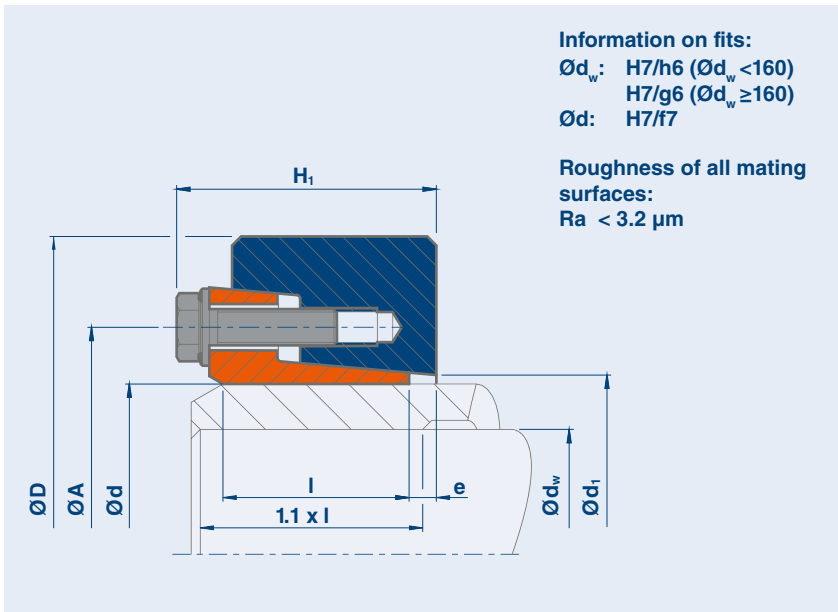
| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|----------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 300 - 83 | 300 | 230 | 465 | 4047 | 900 | 16 x M24 | 485 | 152 | 190 | 354 | 305 | 18 | 141 |
| | | 240 | 513 | 4273 | | | | | | | | | |
| | | 250 | 563 | 4501 | | | | | | | | | |
| HSD 320 - 83 | 320 | 240 | 510 | 4250 | 900 | 18 x M24 | 520 | 160 | 200 | 374 | 325 | 19 | 171 |
| | | 250 | 560 | 4484 | | | | | | | | | |
| | | 270 | 669 | 4955 | | | | | | | | | |
| HSD 340 - 83 | 340 | 250 | 664 | 5316 | 1310 | 18 x M27 | 570 | 176 | 221 | 404 | 345 | 21 | 234 |
| | | 260 | 726 | 5587 | | | | | | | | | |
| | | 280 | 859 | 6135 | | | | | | | | | |
| HSD 360 - 83 | 360 | 270 | 763 | 5655 | 1310 | 18 x M27 | 590 | 180 | 226 | 424 | 365 | 22 | 249 |
| | | 280 | 829 | 5921 | | | | | | | | | |
| | | 300 | 969 | 6457 | | | | | | | | | |
| HSD 390 - 83 | 390 | 290 | 972 | 6703 | 1310 | 20 x M27 | 650 | 190 | 240 | 456 | 398 | 26 | 325 |
| | | 300 | 1049 | 6994 | | | | | | | | | |
| | | 320 | 1213 | 7580 | | | | | | | | | |
| HSD 420 - 83 | 420 | 320 | 1297 | 8105 | 1310 | 21 x M27 | 690 | 214 | 268 | 486 | 428 | 30 | 404 |
| | | 330 | 1389 | 8421 | | | | | | | | | |
| | | 350 | 1585 | 9057 | | | | | | | | | |
| HSD 440 - 83 | 440 | 340 | 1585 | 9323 | 1800 | 21 x M30 | 750 | 225 | 284 | 514 | 448 | 31 | 530 |
| | | 350 | 1690 | 9659 | | | | | | | | | |
| | | 370 | 1912 | 10336 | | | | | | | | | |
| HSD 460 - 83 | 460 | 360 | 1747 | 9706 | 1800 | 21 x M30 | 760 | 226 | 280 | 534 | 468 | 30 | 520 |
| | | 370 | 1856 | 10035 | | | | | | | | | |
| | | 390 | 2086 | 10697 | | | | | | | | | |
| HSD 480 - 83 | 480 | 380 | 2105 | 11076 | 1800 | 21 x M30 | 800 | 246 | 309 | 552 | 488 | 37 | 640 |
| | | 390 | 2229 | 11430 | | | | | | | | | |
| | | 410 | 2489 | 12142 | | | | | | | | | |
| HSD 500 - 83 | 500 | 400 | 2552 | 12762 | 1800 | 24 x M30 | 850 | 246 | 306 | 572 | 508 | 34 | 740 |
| | | 410 | 2695 | 13147 | | | | | | | | | |
| | | 430 | 2993 | 13922 | | | | | | | | | |
| HSD 530 - 83 | 530 | 430 | 3108 | 14455 | 2400 | 21 x M33 | 890 | 280 | 346 | 616 | 538 | 40 | 900 |
| | | 440 | 3270 | 14861 | | | | | | | | | |
| | | 460 | 3606 | 15678 | | | | | | | | | |
| HSD 560 - 83 | 560 | 450 | 3452 | 15341 | 2400 | 24 x M33 | 940 | 280 | 344 | 646 | 568 | 36 | 1000 |
| | | 460 | 3622 | 15749 | | | | | | | | | |
| | | 480 | 3976 | 16567 | | | | | | | | | |
| HSD 590 - 83 | 590 | 470 | 4027 | 17138 | 2400 | 24 x M33 | 980 | 296 | 369 | 666 | 600 | 41 | 1150 |
| | | 480 | 4217 | 17571 | | | | | | | | | |
| | | 500 | 4610 | 18439 | | | | | | | | | |
| HSD 620 - 83 | 620 | 500 | 5040 | 20160 | 2400 | 27 x M33 | 1020 | 330 | 406 | 706 | 630 | 46 | 1370 |
| | | 510 | 5263 | 20641 | | | | | | | | | |
| | | 540 | 5964 | 22089 | | | | | | | | | |
| HSD 660 - 83 | 660 | 530 | 5833 | 22013 | 3100 | 28 x M36 | 1090 | 334 | 405 | 750 | 670 | 43 | 1570 |
| | | 540 | 6075 | 22501 | | | | | | | | | |
| | | 570 | 6832 | 23972 | | | | | | | | | |
| HSD 700 - 83 | 700 | 560 | 6485 | 23160 | 3100 | 27 x M36 | 1160 | 334 | 416 | 800 | 710 | 48 | 1810 |
| | | 570 | 6738 | 23642 | | | | | | | | | |
| | | 600 | 7528 | 25095 | | | | | | | | | |
| HSD 750 - 83 | 750 | 600 | 7671 | 25569 | 3100 | 30 x M36 | 1220 | 370 | 446 | 850 | 760 | 48 | 2140 |
| | | 620 | 8234 | 26562 | | | | | | | | | |
| | | 650 | 9119 | 28059 | | | | | | | | | |
| HSD 800 - 83 | 800 | 640 | 9085 | 28390 | 3100 | 36 x M36 | 1340 | 360 | 460 | 900 | 810 | 60 | 2651 |
| | | 660 | 9709 | 29422 | | | | | | | | | |
| | | 700 | 11024 | 31497 | | | | | | | | | |
| HSD 850 - 83 | 850 | 650 | 8924 | 27459 | 3100 | 36 x M36 | 1440 | 380 | 469 | 950 | 860 | 60.5 | 3271 |
| | | 700 | 10474 | 29927 | | | | | | | | | |
| | | 730 | 11467 | 31416 | | | | | | | | | |
| HSD 900 - 83 | 900 | 700 | 10259 | 29310 | 3100 | 38 x M36 | 1470 | 400 | 493 | 1010 | 912 | 64 | 3370 |
| | | 730 | 11233 | 30774 | | | | | | | | | |
| | | 760 | 12253 | 32245 | | | | | | | | | |
| HSD 950 - 83 | 950 | 750 | 12147 | 32392 | 3100 | 40 x M36 | 1520 | 430 | 525 | 1050 | 970 | 66.5 | 3805 |
| | | 780 | 13220 | 33898 | | | | | | | | | |
| | | 820 | 14726 | 35917 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade 12.9, alternative DINENISO4762 Grade 12.9 M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 950 - 83 x 950

STÜWE® Shrink disc Type HSD Rust-free Series 20 - 1.4122



Code

- M_t Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax} Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")
- μ_w The transmissible loads on rust-free materials are calculated using the coefficient of friction $\mu_w = 0.1$

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD Rust-free – Series 20 - 1.4122

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|-------------|---------|----------------------|-----------------------|-----------------------|----------------------|--------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 24 - 20 | 24 | 20 | 0.08 | 8 | 10 | 6 x M6 | 50 | 11.5 | 18 | 38 | 25 | 1.8 | 0.2 |
| | | 21 | 0.10 | 10 | | | | | | | | | |
| | | 22 | 0.12 | 11 | | | | | | | | | |
| HSD 29 - 20 | 29 | 25 | 0.13 | 10 | 10 | 6 x M6 | 58 | 12.5 | 18 | 44 | 31 | 1.8 | 0.2 |
| | | 26 | 0.15 | 11 | | | | | | | | | |
| | | 27 | 0.17 | 13 | | | | | | | | | |
| HSD 35 - 20 | 34 | 29 | 0.15 | 10 | 10 | 5 x M6 | 64 | 12.5 | 18 | 52 | 38 | 1.8 | 0.25 |
| | | 30 | 0.17 | 11 | | | | | | | | | |
| | | 32 | 0.21 | 13 | | | | | | | | | |
| HSD 40 - 20 | 38 | 34 | 0.19 | 11 | 10 | 6 x M6 | 69 | 12.2 | 18 | 55 | 43 | 2.5 | 0.3 |
| | | 40 | 0.21 | 12 | | | | | | | | | |
| | | 36 | 0.23 | 13 | | | | | | | | | |
| HSD 46 - 20 | 46 | 38 | 0.24 | 13 | 10 | 6 x M6 | 80 | 13 | 23 | 62 | 50 | 2.5 | 0.5 |
| | | 47 | 0.30 | 15 | | | | | | | | | |
| | | 42 | 0.36 | 17 | | | | | | | | | |
| HSD 51 - 20 | 51 | 44 | 0.35 | 16 | 10 | 8 x M6 | 86 | 13 | 23 | 67 | 54 | 2.5 | 0.5 |
| | | 45 | 0.38 | 17 | | | | | | | | | |
| | | 47 | 0.45 | 19 | | | | | | | | | |
| HSD 56 - 20 | 55 | 48 | 0.37 | 15 | 10 | 8 x M6 | 90 | 13 | 23 | 72 | 59 | 2.9 | 0.6 |
| | | 56 | 0.43 | 17 | | | | | | | | | |
| | | 57 | 0.49 | 19 | | | | | | | | | |
| HSD 61 - 20 | 61 | 53 | 0.47 | 18 | 10 | 8 x M6 | 96 | 13 | 24 | 76 | 63 | 2.9 | 0.7 |
| | | 55 | 0.55 | 20 | | | | | | | | | |
| | | 57 | 0.63 | 22 | | | | | | | | | |
| HSD 66 - 20 | 65 | 58 | 0.51 | 18 | 10 | 8 x M6 | 100 | 13 | 24 | 82 | 68 | 2.9 | 0.7 |
| | | 60 | 0.58 | 19 | | | | | | | | | |
| | | 62 | 0.66 | 21 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade A4-80 M16 and upwards with washers: DIN EN ISO 7416, **When ordering please state:** (Type x Ød) e.g. HSD 61 - 20 x 61 - 61 - 1.4122

Shrink Disc Type HSD Rust-free – Series 20 - 1.4122

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 73 - 20 | 70 | 63 | 0.63 | 20 | 24 | 9 x M8 | 115 | 18 | 30 | 94 | 77 | 3.2 | 1.2 |
| | 72 | 65 | 0.72 | 22 | | | | | | | | | |
| | 73 | 68 | 0.87 | 26 | | | | | | | | | |
| HSD 78 - 20 | 76 | 68 | 0.78 | 23 | 24 | 9 x M8 | 120 | 18 | 30 | 100 | 82 | 3.2 | 1.3 |
| | 78 | 70 | 0.87 | 25 | | | | | | | | | |
| | 72 | | 0.98 | 27 | | | | | | | | | |
| HSD 83 - 20 | 81 | 73 | 0.87 | 24 | 24 | 9 x M8 | 125 | 18 | 30 | 104 | 87 | 3.2 | 1.3 |
| | 83 | 75 | 0.96 | 26 | | | | | | | | | |
| | 77 | | 1.07 | 28 | | | | | | | | | |
| HSD 88 - 20 | 86 | 78 | 0.98 | 25 | 24 | 9 x M8 | 130 | 18 | 30 | 110 | 92 | 3.5 | 1.4 |
| | 88 | 80 | 1.08 | 27 | | | | | | | | | |
| | 82 | | 1.19 | 29 | | | | | | | | | |
| HSD 93 - 20 | 93 | 83 | 1.16 | 28 | 24 | 9 x M8 | 135 | 18 | 31 | 114 | 97 | 3.5 | 1.4 |
| | 94 | 85 | 1.28 | 30 | | | | | | | | | |
| | 87 | | 1.40 | 32 | | | | | | | | | |
| HSD 98 - 20 | 96 | 88 | 1.18 | 27 | 24 | 9 x M8 | 140 | 18 | 31 | 120 | 102 | 3.5 | 1.5 |
| | 98 | 90 | 1.30 | 29 | | | | | | | | | |
| | 92 | | 1.42 | 31 | | | | | | | | | |
| HSD 103 - 20 | 103 | 93 | 1.44 | 31 | 24 | 10 x M8 | 145 | 18 | 31 | 124 | 107 | 3.5 | 1.5 |
| | | 95 | 1.56 | 33 | | | | | | | | | |
| | | 97 | 1.69 | 35 | | | | | | | | | |
| HSD 108 - 20 | 106 | 98 | 1.46 | 30 | 24 | 10 x M8 | 150 | 18 | 31 | 128 | 112 | 3.5 | 1.6 |
| | 108 | 100 | 1.58 | 32 | | | | | | | | | |
| | | 102 | 1.71 | 34 | | | | | | | | | |
| HSD 115 - 20 | 112 | 103 | 1.99 | 39 | 24 | 10 x M8 | 160 | 22 | 35 | 134 | 118 | 3.9 | 2.2 |
| | 115 | 105 | 2.14 | 41 | | | | | | | | | |
| | | 108 | 2.38 | 44 | | | | | | | | | |
| HSD 120 - 20 | 120 | 108 | 2.24 | 42 | 24 | 10 x M8 | 164 | 22 | 35 | 140 | 124 | 3.9 | 2.2 |
| | | 110 | 2.40 | 44 | | | | | | | | | |
| | | 113 | 2.65 | 47 | | | | | | | | | |
| HSD 125 - 20 | 125 | 113 | 2.35 | 42 | 24 | 12 x M8 | 169 | 22 | 35 | 144 | 129 | 3.9 | 2.3 |
| | | 115 | 2.50 | 44 | | | | | | | | | |
| | | 118 | 2.75 | 47 | | | | | | | | | |
| HSD 130 - 20 | 130 | 118 | 2.56 | 43 | 24 | 12 x M8 | 174 | 22 | 35 | 150 | 134 | 3.9 | 2.3 |
| | | 120 | 2.72 | 45 | | | | | | | | | |
| | | 123 | 2.97 | 48 | | | | | | | | | |
| HSD 135 - 20 | 135 | 123 | 2.69 | 44 | 24 | 12 x M8 | 179 | 22 | 35 | 154 | 139 | 3.9 | 2.3 |
| | | 125 | 2.86 | 46 | | | | | | | | | |
| | | 128 | 3.13 | 49 | | | | | | | | | |
| HSD 140 - 20 | 138 | 128 | 2.71 | 42 | 24 | 12 x M8 | 184 | 22 | 36 | 160 | 144 | 4.5 | 2.5 |
| | 140 | 130 | 2.88 | 44 | | | | | | | | | |
| | | 132 | 3.05 | 46 | | | | | | | | | |
| HSD 145 - 20 | 145 | 133 | 3.02 | 45 | 24 | 12 x M8 | 189 | 22 | 36 | 164 | 149 | 4.5 | 2.6 |
| | | 135 | 3.20 | 47 | | | | | | | | | |
| | | 137 | 3.38 | 49 | | | | | | | | | |
| HSD 150 - 20 | 150 | 138 | 3.25 | 47 | 24 | 12 x M8 | 194 | 22 | 36 | 170 | 154 | 4.5 | 2.6 |
| | | 140 | 3.43 | 49 | | | | | | | | | |
| | | 142 | 3.61 | 51 | | | | | | | | | |
| HSD 160 - 20 | 160 | 146 | 3.41 | 47 | 24 | 12 x M8 | 204 | 22 | 36 | 180 | 164 | 4.5 | 2.7 |
| | | 150 | 3.77 | 50 | | | | | | | | | |
| | | 152 | 3.96 | 52 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade A4-80 M16 and upwards with washers:
DIN EN ISO 7416, **When ordering please state:** (Type x Ød) e.g. HSD 140 - 20 x 138 - 1.4122

Shrink Disc Type HSD Rust-free – Series 20 - 1.4122

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 170 - 20 | 166 | 156 | 3.45 | 44 | 24 | 12 x M8 | 214 | 22 | 36 | 190 | 174 | 4.5 | 3 |
| | 170 | 160 | 3.81 | 48 | | | | | | | | | |
| | | 162 | 3.99 | 49 | | | | | | | | | |
| HSD 182 - 20 | 182 | 166 | 4.88 | 59 | 24 | 14 x M8 | 230 | 25 | 41 | 206 | 188 | 5.6 | 3.9 |
| | | 170 | 5.36 | 63 | | | | | | | | | |
| | | 172 | 5.61 | 65 | | | | | | | | | |
| HSD 192 - 20 | 189 | 176 | 5.03 | 57 | 24 | 14 x M8 | 240 | 25 | 41 | 216 | 198 | 5.6 | 4 |
| | | 192 | 5.50 | 61 | | | | | | | | | |
| | | | 5.74 | 63 | | | | | | | | | |
| HSD 202 - 20 | 202 | 186 | 5.66 | 61 | 24 | 15 x M8 | 250 | 25 | 41 | 224 | 208 | 5.6 | 4.7 |
| | | 190 | 6.18 | 65 | | | | | | | | | |
| | | 192 | 6.45 | 67 | | | | | | | | | |
| HSD 212 - 20 | 212 | 196 | 6.27 | 64 | 24 | 15 x M8 | 260 | 25 | 41 | 234 | 218 | 5.6 | 4.7 |
| | | 200 | 6.81 | 68 | | | | | | | | | |
| | | 202 | 7.08 | 70 | | | | | | | | | |
| HSD 222 - 20 | 222 | 206 | 6.73 | 65 | 24 | 16 x M8 | 270 | 25 | 42 | 244 | 228 | 6.5 | 5 |
| | | 210 | 7.27 | 69 | | | | | | | | | |
| | | 212 | 7.54 | 71 | | | | | | | | | |
| HSD 232 - 20 | 232 | 216 | 7.18 | 66 | 24 | 16 x M8 | 280 | 25 | 42 | 254 | 238 | 6.5 | 5 |
| | | 220 | 7.73 | 70 | | | | | | | | | |
| | | 222 | 8.01 | 72 | | | | | | | | | |
| HSD 242 - 20 | 242 | 226 | 7.63 | 68 | 24 | 16 x M8 | 290 | 25 | 42 | 264 | 248 | 6.5 | 5 |
| | | 230 | 8.19 | 71 | | | | | | | | | |
| | | 232 | 8.47 | 73 | | | | | | | | | |
| HSD 252 - 20 | 252 | 234 | 7.84 | 67 | 24 | 16 x M8 | 300 | 25 | 42 | 274 | 258 | 6.5 | 5.2 |
| | | 238 | 8.39 | 71 | | | | | | | | | |
| | | 240 | 8.67 | 72 | | | | | | | | | |
| HSD 262 - 20 | 262 | 244 | 8.30 | 68 | 24 | 18 x M8 | 310 | 25 | 42 | 286 | 268 | 6.5 | 5.4 |
| | | 248 | 8.86 | 71 | | | | | | | | | |
| | | 250 | 9.14 | 73 | | | | | | | | | |

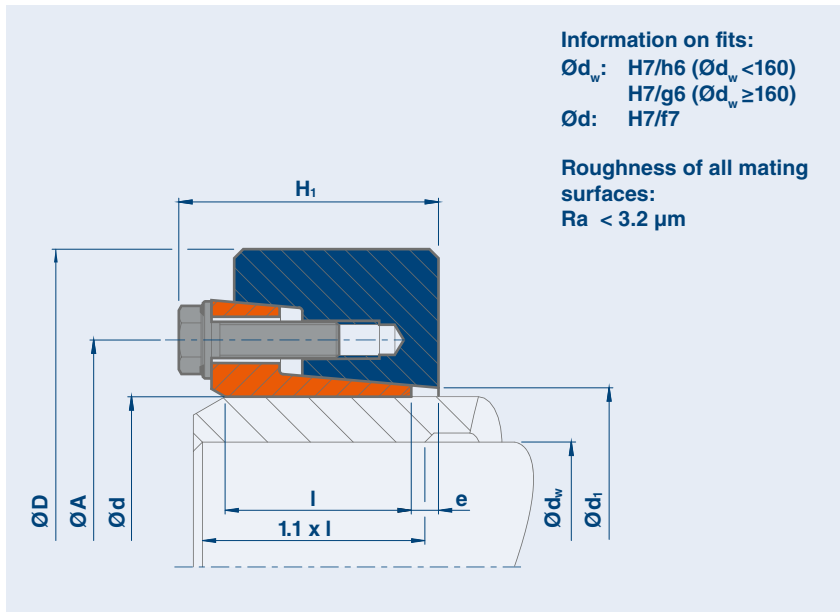
Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade A4-80

M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x Ød) e.g. HSD 202 - 20 x 202 - 61 - 1.4122

STÜWE® Shrink disc Type HSD Rust-free Series 20 - 1.4462



Code

- M_t** Maximum transmissible torque of a shrink disc for $P_{ax} = 0$
- P_{ax}** Maximum transmissible axial load of a shrink disc for $M_t = 0$
- M_a** Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")
- μ_w** The transmissible loads on rust-free materials are calculated using the coefficient of friction $\mu_w = 0.1$

Dimensions H_1 and e apply to untightened units.

Shrink Disc Type HSD Rust-free – Series 20 - 1.4462

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d _i mm | e mm | kg |
|-------------|---------|----------------------|-----------------------|-----------------------|----------------------|--------|---------|---------|----------------------|---------|----------------------|---------|------|
| HSD 24 - 20 | 24 | 20 | 0.06 | 6 | 10 | 6 x M6 | 50 | 11.5 | 18 | 38 | 25 | 1.8 | 0.2 |
| | | 21 | 0.07 | 7 | | | | | | | | | |
| | | 22 | 0.09 | 8 | | | | | | | | | |
| HSD 29 - 20 | 29 | 25 | 0.09 | 8 | 10 | 6 x M6 | 58 | 12.5 | 18 | 44 | 31 | 1.8 | 0.2 |
| | | 26 | 0.11 | 9 | | | | | | | | | |
| | | 27 | 0.13 | 10 | | | | | | | | | |
| HSD 35 - 20 | 34 | 29 | 0.11 | 8 | 10 | 6 x M6 | 64 | 12.5 | 18 | 52 | 38 | 1.8 | 0.25 |
| | | 35 | 0.13 | 8 | | | | | | | | | |
| | | 32 | 0.16 | 10 | | | | | | | | | |
| HSD 40 - 20 | 38 | 34 | 0.14 | 8 | 10 | 6 x M6 | 69 | 12.2 | 18 | 55 | 43 | 2.5 | 0.3 |
| | | 40 | 0.16 | 9 | | | | | | | | | |
| | | 36 | 0.18 | 10 | | | | | | | | | |
| HSD 46 - 20 | 46 | 38 | 0.16 | 8 | 10 | 6 x M6 | 80 | 13 | 23 | 62 | 50 | 2.5 | 0.5 |
| | | 47 | 0.20 | 10 | | | | | | | | | |
| | | 42 | 0.25 | 12 | | | | | | | | | |
| HSD 51 - 20 | 51 | 44 | 0.24 | 11 | 10 | 8 x M6 | 86 | 13 | 23 | 67 | 54 | 2.5 | 0.5 |
| | | 45 | 0.26 | 12 | | | | | | | | | |
| | | 47 | 0.32 | 14 | | | | | | | | | |
| HSD 56 - 20 | 55 | 48 | 0.24 | 10 | 10 | 8 x M6 | 90 | 13 | 23 | 72 | 59 | 2.9 | 0.6 |
| | | 56 | 0.29 | 12 | | | | | | | | | |
| | | 57 | 0.35 | 13 | | | | | | | | | |
| HSD 61 - 20 | 61 | 53 | 0.32 | 12 | 10 | 8 x M6 | 96 | 13 | 24 | 76 | 63 | 2.9 | 0.7 |
| | | 55 | 0.38 | 14 | | | | | | | | | |
| | | 57 | 0.45 | 16 | | | | | | | | | |
| HSD 66 - 20 | 65 | 58 | 0.34 | 12 | 10 | 8 x M6 | 100 | 13 | 24 | 82 | 68 | 2.9 | 0.7 |
| | | 66 | 0.40 | 13 | | | | | | | | | |
| | | 62 | 0.46 | 15 | | | | | | | | | |

*Locking bolts: standard DINENISO4014/4017 Grade A4-80
M16 and upwards with washers: DIN EN ISO 7416

When ordering please state: (Type x $\varnothing d$) e.g. HSD 61 - 20 x 61 - 61 - 1.4462

Shrink Disc Type HSD Rust-free – Series 20 - 1.4462

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 73 - 20 | 70 | 63 | 0.38 | 12 | 24 | 9 x M8 | 115 | 18 | 30 | 94 | 77 | 3.2 | 1.2 |
| | 72 | 65 | 0.46 | 14 | | | | | | | | | |
| | 73 | 68 | 0.58 | 17 | | | | | | | | | |
| HSD 78 - 20 | 76 | 68 | 0.51 | 15 | 24 | 9 x M8 | 120 | 18 | 30 | 100 | 82 | 3.2 | 1.3 |
| | 78 | 70 | 0.59 | 17 | | | | | | | | | |
| | | 72 | 0.67 | 19 | | | | | | | | | |
| HSD 83 - 20 | 81 | 73 | 0.57 | 16 | 24 | 9 x M8 | 125 | 18 | 30 | 104 | 87 | 3.2 | 1.3 |
| | 83 | 75 | 0.65 | 17 | | | | | | | | | |
| | | 77 | 0.74 | 19 | | | | | | | | | |
| HSD 88 - 20 | 86 | 78 | 0.66 | 17 | 24 | 9 x M8 | 130 | 18 | 30 | 110 | 92 | 3.5 | 1.4 |
| | 88 | 80 | 0.74 | 19 | | | | | | | | | |
| | | 82 | 0.83 | 20 | | | | | | | | | |
| HSD 93 - 20 | 93 | 83 | 0.82 | 20 | 24 | 9 x M8 | 135 | 18 | 31 | 114 | 97 | 3.5 | 1.4 |
| | 94 | 85 | 0.92 | 22 | | | | | | | | | |
| | | 87 | 1.02 | 24 | | | | | | | | | |
| HSD 98 - 20 | 96 | 88 | 0.82 | 19 | 24 | 9 x M8 | 140 | 18 | 31 | 120 | 102 | 3.5 | 1.5 |
| | 98 | 90 | 0.91 | 20 | | | | | | | | | |
| | | 92 | 1.02 | 22 | | | | | | | | | |
| HSD 103 - 20 | 103 | 93 | 1.01 | 22 | 24 | 10 x M8 | 145 | 18 | 31 | 124 | 107 | 3.5 | 1.5 |
| | | 95 | 1.11 | 23 | | | | | | | | | |
| | | 97 | 1.22 | 25 | | | | | | | | | |
| HSD 108 - 20 | 106 | 98 | 1.03 | 21 | 24 | 10 x M8 | 150 | 18 | 31 | 128 | 112 | 3.5 | 1.6 |
| | 108 | 100 | 1.13 | 23 | | | | | | | | | |
| | | 102 | 1.24 | 24 | | | | | | | | | |
| HSD 115 - 20 | 112 | 103 | 1.39 | 27 | 24 | 10 x M8 | 160 | 22 | 35 | 134 | 118 | 3.9 | 2.2 |
| | 115 | 105 | 1.52 | 29 | | | | | | | | | |
| | | 108 | 1.72 | 32 | | | | | | | | | |
| HSD 120 - 20 | 120 | 108 | 1.65 | 31 | 24 | 10 x M8 | 164 | 22 | 35 | 140 | 124 | 3.9 | 2.2 |
| | | 110 | 1.79 | 32 | | | | | | | | | |
| | | 113 | 2.00 | 35 | | | | | | | | | |
| HSD 125 - 20 | 125 | 113 | 1.72 | 30 | 24 | 12 x M8 | 169 | 22 | 35 | 144 | 129 | 3.9 | 2.3 |
| | | 115 | 1.86 | 32 | | | | | | | | | |
| | | 118 | 2.07 | 35 | | | | | | | | | |
| HSD 130 - 20 | 130 | 118 | 1.85 | 31 | 24 | 12 x M8 | 174 | 22 | 35 | 150 | 134 | 3.9 | 2.3 |
| | | 120 | 1.99 | 33 | | | | | | | | | |
| | | 123 | 2.20 | 36 | | | | | | | | | |
| HSD 135 - 20 | 135 | 123 | 1.89 | 31 | 24 | 12 x M8 | 179 | 22 | 35 | 154 | 139 | 3.9 | 2.3 |
| | | 125 | 2.04 | 33 | | | | | | | | | |
| | | 128 | 2.27 | 35 | | | | | | | | | |
| HSD 140 - 20 | 138 | 128 | 1.93 | 30 | 24 | 12 x M8 | 184 | 22 | 36 | 160 | 144 | 4.5 | 2.5 |
| | 140 | 130 | 2.08 | 32 | | | | | | | | | |
| | | 132 | 2.23 | 34 | | | | | | | | | |
| HSD 145 - 20 | 145 | 133 | 2.21 | 33 | 24 | 12 x M8 | 189 | 22 | 36 | 164 | 149 | 4.5 | 2.6 |
| | | 135 | 2.36 | 35 | | | | | | | | | |
| | | 137 | 2.52 | 37 | | | | | | | | | |
| HSD 150 - 20 | 150 | 138 | 2.34 | 34 | 24 | 12 x M8 | 194 | 22 | 36 | 170 | 154 | 4.5 | 2.6 |
| | | 140 | 2.50 | 36 | | | | | | | | | |
| | | 142 | 2.66 | 37 | | | | | | | | | |
| HSD 160 - 20 | 160 | 146 | 2.46 | 34 | 24 | 12 x M8 | 204 | 22 | 36 | 180 | 164 | 4.5 | 2.7 |
| | | 150 | 2.77 | 37 | | | | | | | | | |
| | | 152 | 2.93 | 39 | | | | | | | | | |

*Locking bolts: DIN EN ISO 4014/4017 grade A4-80 as standard,
M16 and upwards with washers: DIN EN ISO 7416,
When ordering please state: (Type x Ød) e.g. HSD 140 - 20 x 138 - 1.4462

Shrink Disc Type HSD Rust-free – Series 20 - 1.4462

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | H ₁ mm | A mm | d ₁ mm | e mm | kg |
|--------------|---------|----------------------|-----------------------|-----------------------|----------------------|---------|---------|---------|----------------------|---------|----------------------|---------|-----|
| HSD 170 - 20 | 166 | 156 | 2.43 | 31 | 24 | 12 x M8 | 214 | 22 | 36 | 190 | 174 | 4.5 | 3 |
| | 170 | 160 | 2.73 | 34 | | | | | | | | | |
| | | 162 | 2.89 | 36 | | | | | | | | | |
| HSD 182 - 20 | 182 | 166 | 3.59 | 43 | 24 | 14 x M8 | 230 | 25 | 41 | 206 | 188 | 5.6 | 3.9 |
| | | 170 | 4.00 | 47 | | | | | | | | | |
| | | 172 | 4.22 | 49 | | | | | | | | | |
| HSD 192 - 20 | 189 | 176 | 3.64 | 41 | 24 | 14 x M8 | 240 | 25 | 41 | 216 | 198 | 5.6 | 4 |
| | | 192 | 4.05 | 45 | | | | | | | | | |
| | | 182 | 4.26 | 47 | | | | | | | | | |
| HSD 202 - 20 | 202 | 186 | 4.11 | 44 | 24 | 15 x M8 | 250 | 25 | 41 | 224 | 208 | 5.6 | 4.7 |
| | | 190 | 4.56 | 48 | | | | | | | | | |
| | | 192 | 4.79 | 50 | | | | | | | | | |
| HSD 212 - 20 | 212 | 196 | 4.54 | 46 | 24 | 15 x M8 | 260 | 25 | 41 | 234 | 218 | 5.6 | 4.7 |
| | | 200 | 5.00 | 50 | | | | | | | | | |
| | | 202 | 5.24 | 52 | | | | | | | | | |
| HSD 222 - 20 | 222 | 206 | 4.90 | 48 | 24 | 16 x M8 | 270 | 25 | 42 | 244 | 228 | 6.5 | 5 |
| | | 210 | 5.36 | 51 | | | | | | | | | |
| | | 212 | 5.61 | 53 | | | | | | | | | |
| HSD 232 - 20 | 232 | 216 | 5.35 | 50 | 24 | 16 x M8 | 280 | 25 | 42 | 254 | 238 | 6.5 | 5 |
| | | 220 | 5.83 | 53 | | | | | | | | | |
| | | 222 | 6.07 | 55 | | | | | | | | | |
| HSD 242 - 20 | 242 | 226 | 5.71 | 51 | 24 | 16 x M8 | 290 | 25 | 42 | 264 | 248 | 6.5 | 5 |
| | | 230 | 6.19 | 54 | | | | | | | | | |
| | | 232 | 6.44 | 56 | | | | | | | | | |
| HSD 252 - 20 | 252 | 234 | 5.76 | 49 | 24 | 16 x M8 | 300 | 25 | 42 | 274 | 258 | 6.5 | 5.2 |
| | | 238 | 6.23 | 52 | | | | | | | | | |
| | | 240 | 6.48 | 54 | | | | | | | | | |
| HSD 262 - 20 | 262 | 244 | 6.12 | 50 | 24 | 18 x M8 | 310 | 25 | 42 | 286 | 268 | 6.5 | 5.4 |
| | | 248 | 6.60 | 53 | | | | | | | | | |
| | | 250 | 6.84 | 55 | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: standard DINENISO4014/4017 Grade A4-80

M16 and upwards with washers: DIN EN ISO 7416

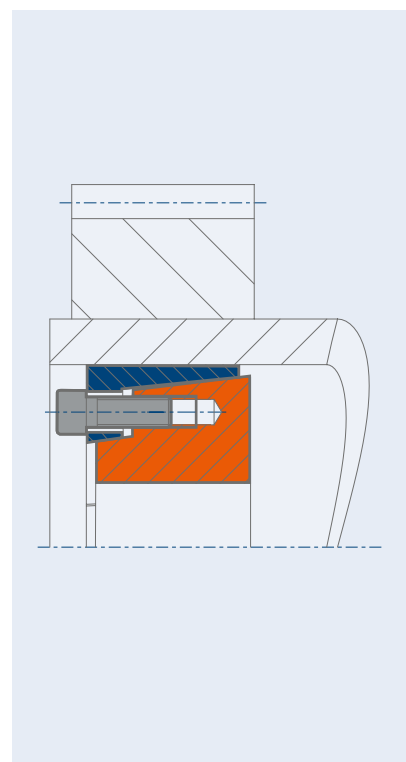
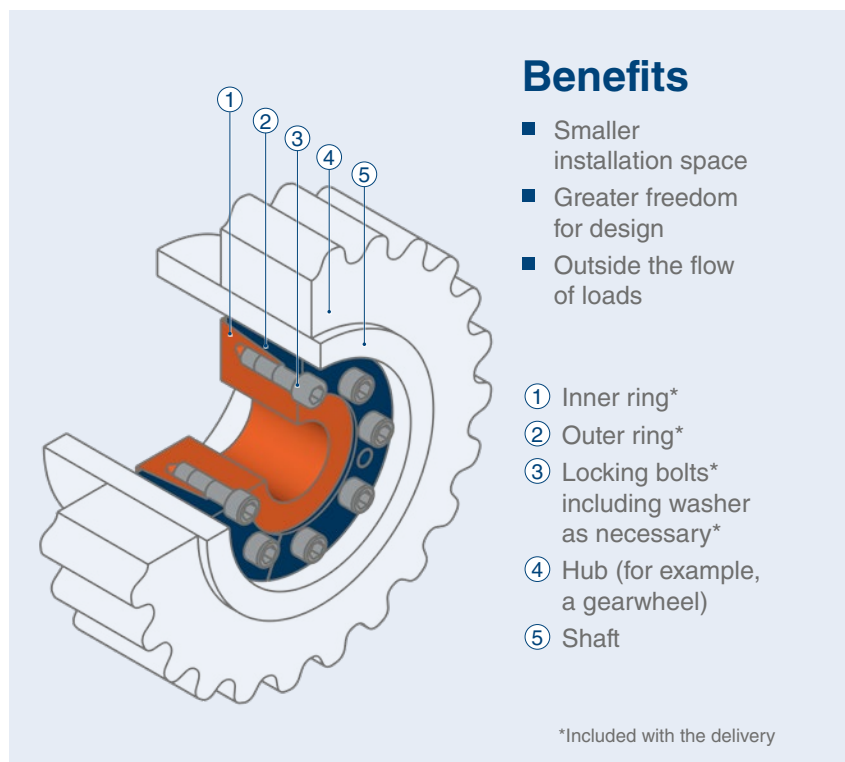
When ordering please state: (Type x Ød) e.g. HSD 202 - 20 x 202 - 61 - 1.4462

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SHRINK DISC TYPE HSD – SPECIAL SOLUTIONS

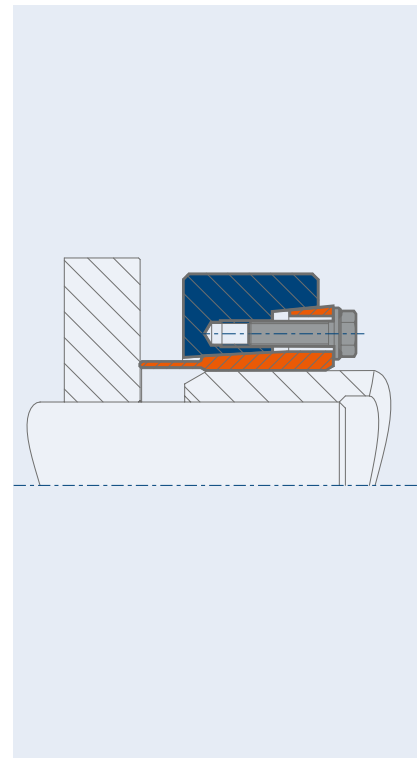
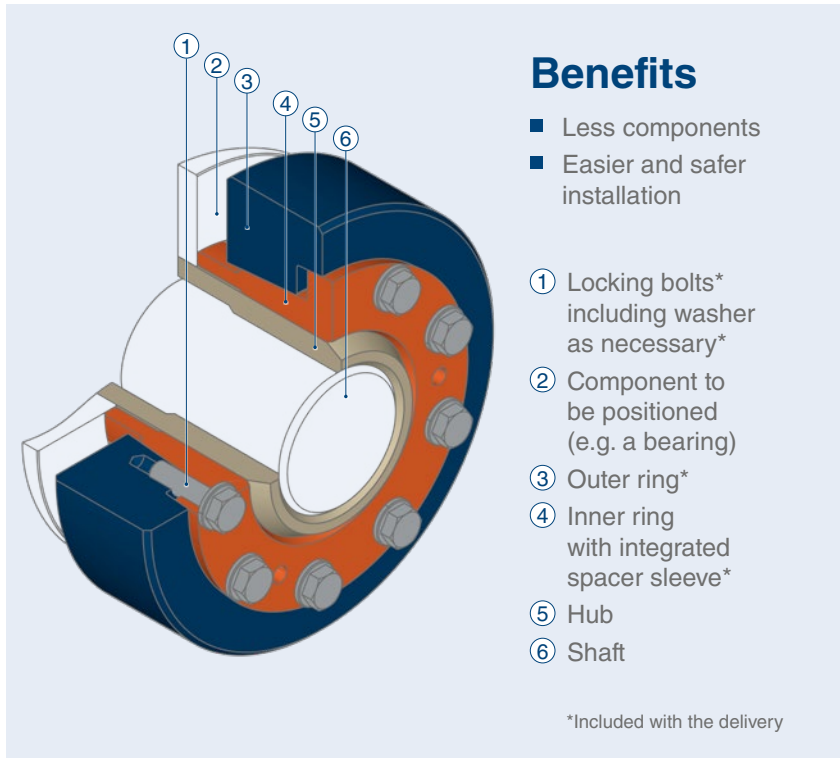
STÜWE® Individual solution UHSD

Example: Internal locking frictional connection



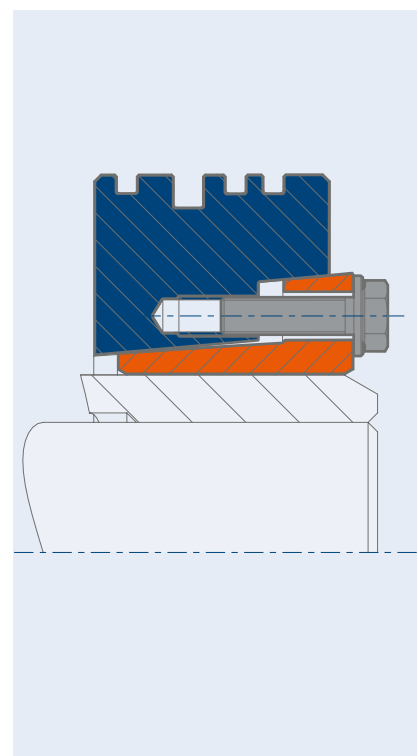
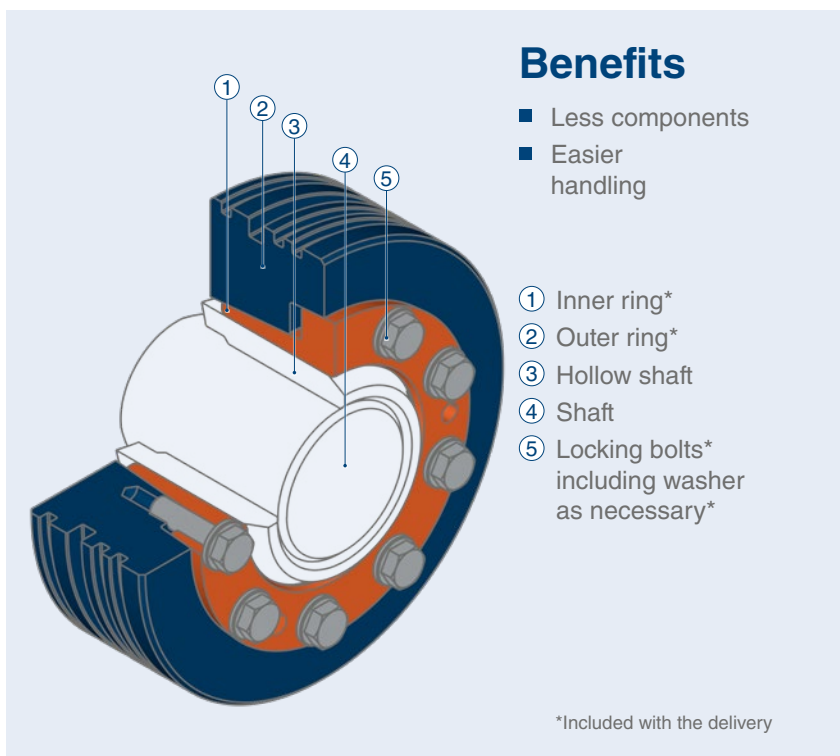
STÜWE® HSD with integrated spacer

Integration of partial solutions into the connection element



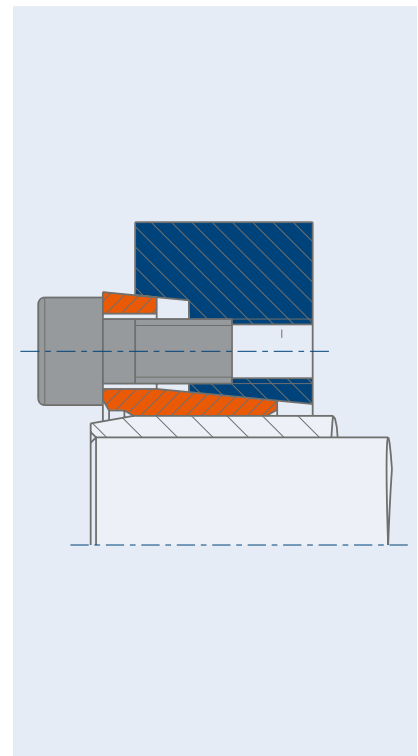
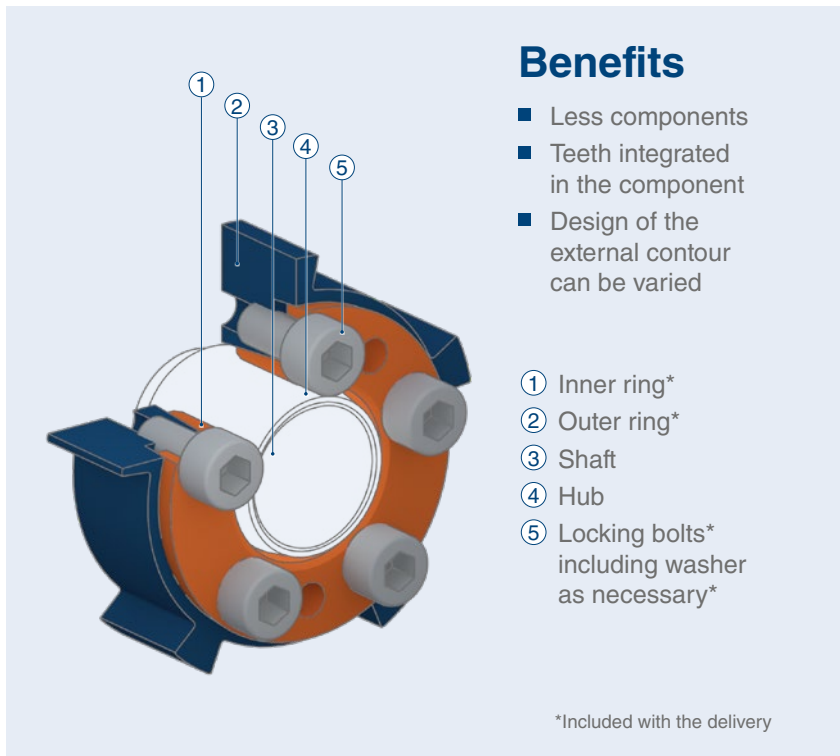
STÜWE® Double-function HSD with Grooves

Connection element and seal



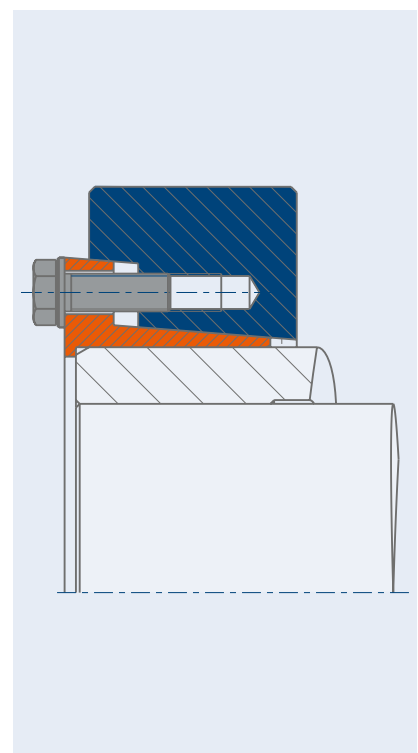
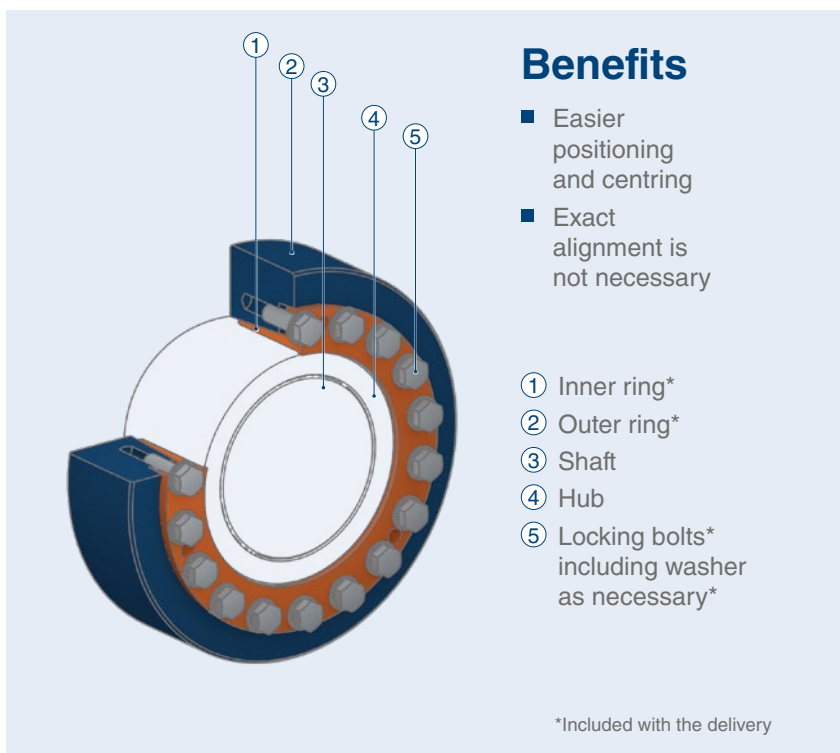
STÜWE® HSD with External Teeth

Connection element with mating external contour



STÜWE® HSD with Centring Device

Connection element with centring device on the inner ring



STÜWE®

SHRINK DISC TYPE SD



SHRINK DISC TYPE SD – GENERAL INFORMATION

Application Description

In addition to the two-part HSD series STÜWE® also offers a three-part type SD shrink disc. It is characterized by its slim design while at the same time having a high level of torque transmission. The three-part torque-controlled frictional connection is maintenance-free and dirt-resistant due to its press fit and is very versatile in its use.

Areas of Use



Driveline
technology



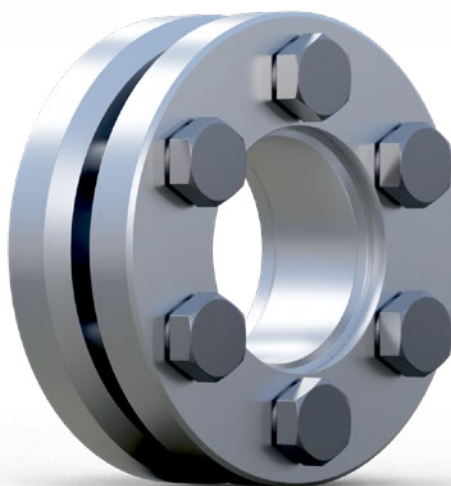
Steel- &
rolling mill equipment



Crushing
equipment



Conveying
equipment



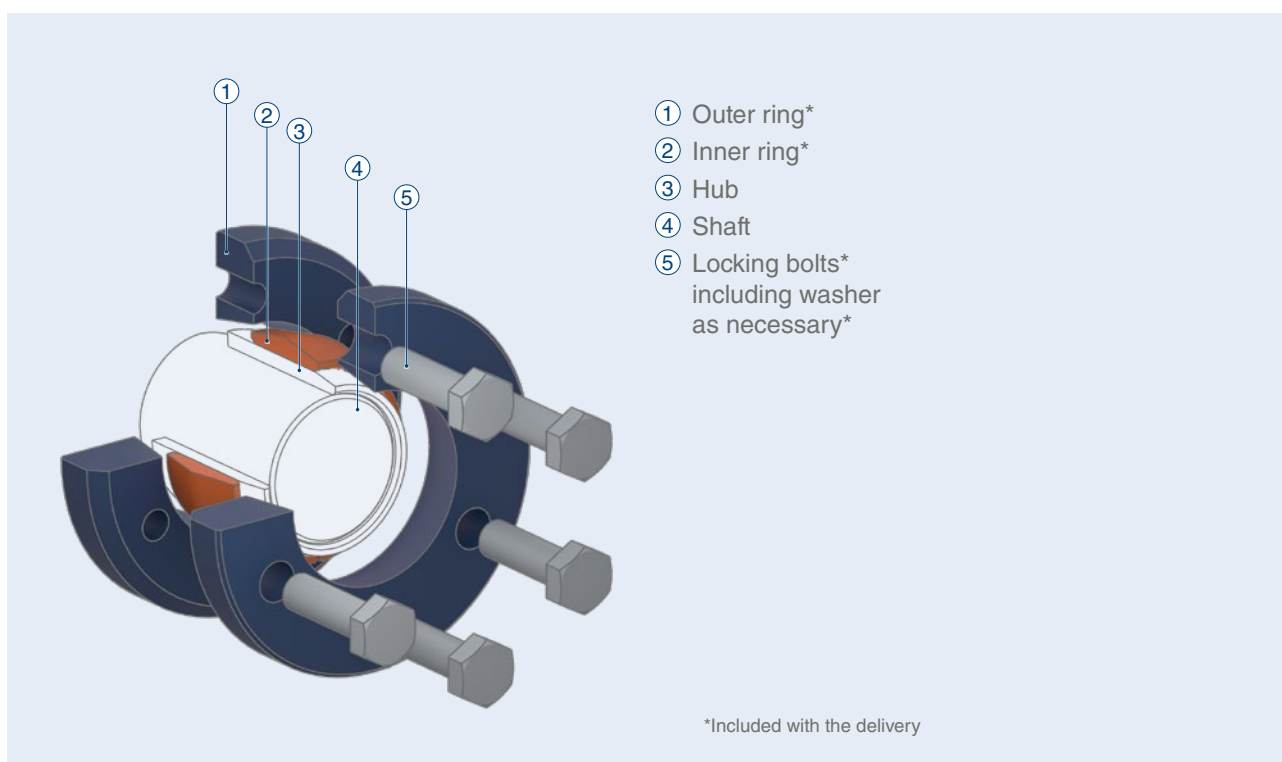
Agitation &
mixing equipment



Shipbuilding

SHRINK DISC TYPE SD – SERIES

| Description | Shaft diameter | Transmissible torque | Features |
|-------------|----------------|----------------------|--------------|
| SD 71/72 | 19 - 760 mm | 0.28 - 8375 kNm | High torques |

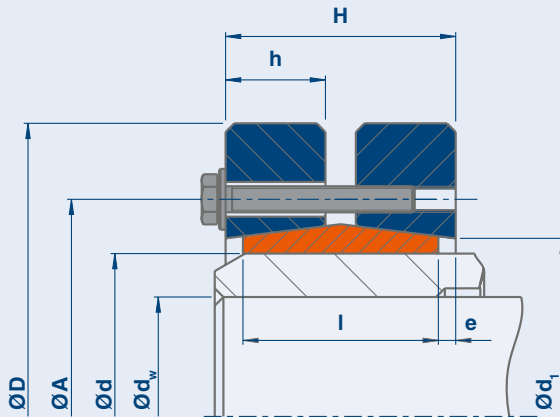


All types may be protected against environmental influences by zinc and nickel coating or by a paint which has an appropriate corrosion protection class. We are able to achieve both desired colours which conform with the RAL colour range and products with lubricants in accordance with NSF H1. More detailed information on this may be found in this catalogue on page 151.

STÜWE® Shrink Disc Type SD Series 71 | 72

Roughness of all mating surfaces:
Ra < 3.2 µm

Information on fits:
Ød: H7/f7
Ød_w: H7/h6 (Ød_w < 160)
H7/g6 (Ød_w ≥ 160)



Code

M_t Maximum transmissible torque of a shrink disc for P_{ax} = 0

P_{ax} Maximum transmissible axial load of a shrink disc for M_t = 0

M_a Required tightening torque of the locking bolts (see also "Installation and Removal Instructions")

Dimensions H and e apply to untightened units.

Shrink Disc Type SD – Series 72 | 71

| Type | d mm | d _w | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | h mm | H mm | A mm | d ₁ mm | e mm | kg |
|----------|---------|----------------|-----------------------|-----------------------|----------------------|-------------|---------|---------|---------|---------|---------|----------------------|---------|-----|
| SD 24-72 | 24 | 19 | 0.28 | 29 | 5 | 6 x M5 x 16 | 50 | 14 | 7.8 | 19 | 36 | 26 | 2.5 | 0.2 |
| | 20 | 0.33 | 33 | | | | | | | | | | | |
| | 21 | 0.38 | 36 | | | | | | | | | | | |
| SD 30-72 | 30 | 24 | 0.36 | 30 | 5 | 6 x M5 x 18 | 60 | 16 | 8.5 | 20 | 44 | 32 | 2.0 | 0.3 |
| | 25 | 0.41 | 33 | | | | | | | | | | | |
| | 26 | 0.46 | 36 | | | | | | | | | | | |
| SD 36-72 | 36 | 28 | 0.62 | 44 | 12 | 5 x M6 x 20 | 70 | 18 | 10.0 | 23 | 52 | 38 | 2.5 | 0.4 |
| | 30 | 0.76 | 51 | | | | | | | | | | | |
| | 31 | 0.80 | 52 | | | | | | | | | | | |
| SD 44-72 | 44 | 34 | 0.83 | 49 | 12 | 6 x M6 x 20 | 80 | 20 | 10.5 | 24 | 61 | 47 | 2.0 | 0.6 |
| | 35 | 0.91 | 52 | | | | | | | | | | | |
| | 36 | 0.99 | 55 | | | | | | | | | | | |
| SD 50-72 | 50 | 38 | 1.4 | 72 | 12 | 8 x M6 x 22 | 90 | 22 | 11.5 | 26 | 75 | 53 | 2.0 | 0.8 |
| | 40 | 1.6 | 79 | | | | | | | | | | | |
| | 42 | 1.8 | 87 | | | | | | | | | | | |
| SD 55-72 | 55 | 42 | 1.5 | 71 | 12 | 8 x M6 x 25 | 100 | 23 | 12.5 | 29 | 75 | 58 | 3.0 | 1.1 |
| | 45 | 1.8 | 81 | | | | | | | | | | | |
| | 48 | 2.2 | 91 | | | | | | | | | | | |
| SD 62-72 | 62 | 48 | 2.0 | 85 | 12 | 9 x M6 x 25 | 110 | 23 | 12.5 | 29 | 86 | 66 | 3.0 | 1.3 |
| | 50 | 2.3 | 91 | | | | | | | | | | | |
| | 52 | 2.4 | 94 | | | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: DIN EN ISO 4014/4017 grade 10.9 as standard, alternatively DIN EN ISO 4762 grade 10.9

When ordering please state: (Type x Ød), e.g. SD-500-71x500

Shrink Disc Type SD – Baureihe 72 | 71

| Type | d mm | d _w | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | h mm | H mm | A mm | d ₁ mm | e mm | kg |
|-----------|---------|----------------|-----------------------|-----------------------|----------------------|---------------|---------|---------|---------|---------|---------|----------------------|---------|------|
| SD 68-72 | 68 | 50 | 2.0 | 79 | 12 | 9 x M6 x 25 | 115 | 23 | 12.5 | 29 | 86 | 72 | 3.0 | 1.3 |
| | | 55 | 2.5 | 90 | | | | | | | | | | |
| | | 60 | 3.2 | 106 | | | | | | | | | | |
| SD 75-72 | 75 | 55 | 3.4 | 122 | 29 | 7 x M8 x 25 | 138 | 25 | 13.0 | 31 | 100 | 79 | 3.0 | 2.3 |
| | | 60 | 4.3 | 142 | | | | | | | | | | |
| | | 65 | 5.3 | 162 | | | | | | | | | | |
| SD 80-72 | 80 | 60 | 3.9 | 129 | 29 | 7 x M8 x 25 | 138 | 25 | 13.0 | 31 | 100 | 84 | 3.0 | 2.1 |
| | | 65 | 4.8 | 147 | | | | | | | | | | |
| | | 70 | 5.8 | 166 | | | | | | | | | | |
| SD 90-72 | 90 | 65 | 5.6 | 172 | 29 | 10 x M8 x 30 | 155 | 30 | 16.5 | 38 | 114 | 96 | 4.0 | 3.2 |
| | | 70 | 6.8 | 194 | | | | | | | | | | |
| | | 75 | 8.1 | 215 | | | | | | | | | | |
| SD 100-72 | 100 | 70 | 7.5 | 214 | 29 | 12 x M8 x 35 | 168 | 34 | 19.0 | 43 | 124 | 104 | 4.5 | 4.2 |
| | | 75 | 8.9 | 238 | | | | | | | | | | |
| | | 80 | 10.5 | 262 | | | | | | | | | | |
| SD 110-72 | 110 | 75 | 9.1 | 243 | 58 | 9 x M10 x 40 | 185 | 39 | 21.5 | 49 | 136 | 115 | 5.0 | 5.8 |
| | | 80 | 10.7 | 268 | | | | | | | | | | |
| | | 85 | 12.2 | 286 | | | | | | | | | | |
| SD 125-72 | 125 | 85 | 13.2 | 310 | 58 | 12 x M10 x 40 | 215 | 42 | 23.0 | 53 | 160 | 134 | 5.5 | 8.7 |
| | | 90 | 15.2 | 338 | | | | | | | | | | |
| | | 95 | 17.4 | 367 | | | | | | | | | | |
| SD 140-71 | 140 | 95 | 19.9 | 419 | 100 | 10 x M12 x 50 | 230 | 46 | 25.0 | 58 | 176 | 146 | 6.0 | 10.3 |
| | | 100 | 22.5 | 451 | | | | | | | | | | |
| | | 105 | 25.3 | 483 | | | | | | | | | | |
| SD 155-71 | 155 | 105 | 25.8 | 492 | 100 | 12 x M12 x 50 | 263 | 50 | 26.0 | 62 | 192 | 165 | 6.0 | 15.2 |
| | | 110 | 28.9 | 525 | | | | | | | | | | |
| | | 115 | 32.1 | 558 | | | | | | | | | | |
| SD 165-71 | 165 | 115 | 33.7 | 586 | 240 | 8 x M16 x 60 | 290 | 56 | 29.0 | 66 | 210 | 174 | 5.0 | 21.5 |
| | | 120 | 37.3 | 622 | | | | | | | | | | |
| | | 125 | 40.4 | 646 | | | | | | | | | | |
| SD 175-71 | 175 | 125 | 41.2 | 659 | 240 | 8 x M16 x 60 | 300 | 56 | 29.0 | 68 | 220 | 185 | 6.0 | 22.5 |
| | | 130 | 45.2 | 695 | | | | | | | | | | |
| | | 135 | 49.4 | 732 | | | | | | | | | | |
| SD 185-71 | 185 | 135 | 56.3 | 834 | 240 | 10 x M16 x 65 | 320 | 71 | 36.0 | 85 | 236 | 195 | 7.0 | 32.7 |
| | | 140 | 61.4 | 877 | | | | | | | | | | |
| | | 145 | 66.8 | 921 | | | | | | | | | | |
| SD 195-71 | 195 | 140 | 67.4 | 963 | 240 | 12 x M16 x 70 | 340 | 71 | 37.0 | 85 | 246 | 206 | 7.0 | 37.2 |
| | | 150 | 79.1 | 1055 | | | | | | | | | | |
| | | 155 | 85.4 | 1102 | | | | | | | | | | |
| SD 200-71 | 200 | 150 | 80.5 | 1073 | 240 | 12 x M16 x 70 | 340 | 71 | 37.0 | 85 | 246 | 206 | 7.0 | 36.3 |
| | | 155 | 86.8 | 1120 | | | | | | | | | | |
| | | 160 | 91.7 | 1147 | | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: DIN EN ISO 4014/4017 grade 10.9 as standard, alternatively DIN EN ISO 4762 grade 10.9

When ordering please state: (Type x Ød), e.g. SD-500-71x500

Shrink Disc Type SD – Series 72 | 71

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | h mm | H mm | A mm | d ₁ mm | e mm | kg |
|-----------|---------|----------------------|-----------------------|-----------------------|----------------------|----------------|---------|---------|---------|---------|---------|----------------------|---------|------|
| SD 220-71 | 220 | 160 | 102 | 1276 | 240 | 15 x M16 x 80 | 370 | 88 | 45.0 | 103 | 276 | 230 | 7.5 | 53.0 |
| | | 165 | 110 | 1332 | | | | | | | | | | |
| | | 170 | 118 | 1388 | | | | | | | | | | |
| SD 240-71 | 240 | 170 | 124 | 1462 | 470 | 11 x M20 x 90 | 405 | 92 | 47.0 | 110 | 296 | 248 | 9.0 | 66.0 |
| | | 180 | 142 | 1579 | | | | | | | | | | |
| | | 190 | 159 | 1675 | | | | | | | | | | |
| SD 260-71 | 260 | 190 | 172 | 1812 | 470 | 12 x M20 x 90 | 430 | 103 | 53.0 | 120 | 321 | 268 | 8.5 | 82.0 |
| | | 200 | 194 | 1943 | | | | | | | | | | |
| | | 210 | 218 | 2076 | | | | | | | | | | |
| SD 280-71 | 280 | 210 | 226 | 2153 | 470 | 15 x M20 x 100 | 460 | 114 | 58.0 | 132 | 346 | 288 | 9.0 | 103 |
| | | 220 | 252 | 2292 | | | | | | | | | | |
| | | 230 | 280 | 2433 | | | | | | | | | | |
| SD 300-71 | 300 | 230 | 273 | 2373 | 470 | 16 x M20 x 100 | 485 | 122 | 60.0 | 138 | 364 | 308 | 8.0 | 120 |
| | | 240 | 302 | 2513 | | | | | | | | | | |
| | | 245 | 316 | 2583 | | | | | | | | | | |
| SD 320-71 | 320 | 240 | 318 | 2646 | 470 | 18 x M20 x 100 | 520 | 122 | 60.0 | 134 | 386 | 328 | 6.0 | 138 |
| | | 250 | 349 | 2791 | | | | | | | | | | |
| | | 260 | 378 | 2909 | | | | | | | | | | |
| SD 340-71 | 340 | 250 | 441 | 3526 | 470 | 24 x M20 x 110 | 570 | 134 | 69.0 | 156 | 420 | 348 | 11.0 | 189 |
| | | 260 | 477 | 3668 | | | | | | | | | | |
| | | 270 | 520 | 3848 | | | | | | | | | | |
| SD 350-71 | 350 | 270 | 505 | 3742 | 470 | 24 x M20 x 110 | 580 | 140 | 69.0 | 156 | 432 | 358 | 8.0 | 196 |
| | | 280 | 549 | 3920 | | | | | | | | | | |
| | | 285 | 571 | 4010 | | | | | | | | | | |
| SD 360-71 | 360 | 280 | 526 | 3758 | 470 | 24 x M20 x 110 | 590 | 140 | 73.0 | 161 | 432 | 367 | 10.5 | 207 |
| | | 290 | 570 | 3931 | | | | | | | | | | |
| | | 295 | 593 | 4018 | | | | | | | | | | |
| SD 380-71 | 380 | 290 | 592 | 4081 | 820 | 18 x M24 x 130 | 645 | 144 | 74 | 164 | 458 | 387 | 10.0 | 250 |
| | | 300 | 639 | 4260 | | | | | | | | | | |
| | | 310 | 688 | 4440 | | | | | | | | | | |
| SD 390-71 | 390 | 300 | 769 | 5124 | 820 | 20 x M24 x 120 | 650 | 144 | 76 | 170 | 468 | 397 | 13.0 | 249 |
| | | 310 | 826 | 5332 | | | | | | | | | | |
| | | 320 | 882 | 5514 | | | | | | | | | | |
| SD 420-71 | 420 | 330 | 829 | 5026 | 820 | 20 x M24 x 130 | 670 | 164 | 82 | 184 | 504 | 428 | 10.0 | 285 |
| | | 340 | 888 | 5221 | | | | | | | | | | |
| | | 350 | 948 | 5418 | | | | | | | | | | |
| SD 440-71 | 440 | 340 | 933 | 5488 | 820 | 24 x M24 x 130 | 730 | 172 | 86 | 192 | 527 | 450 | 10.0 | 373 |
| | | 350 | 996 | 5693 | | | | | | | | | | |
| | | 360 | 1062 | 5898 | | | | | | | | | | |
| SD 460-71 | 460 | 360 | 1099 | 6108 | 820 | 24 x M24 x 140 | 760 | 172 | 86 | 192 | 547 | 468 | 10.0 | 402 |
| | | 370 | 1169 | 6319 | | | | | | | | | | |
| | | 380 | 1241 | 6530 | | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: DIN EN ISO 4014/4017 grade 10.9 as standard, alternatively DIN EN ISO 4762 grade 10.9

When ordering please state: (Type x Ød), e.g. SD-500-71x500

Shrink Disc Type SD – Series 72 | 71

| Type | d mm | d _w mm | M _t kNm | P _{ax} kN | M _a Nm | B* | D mm | l mm | h mm | H mm | A mm | d ₁ mm | e mm | kg |
|-----------|---------|----------------------|-----------------------|-----------------------|----------------------|----------------|---------|---------|---------|---------|---------|----------------------|---------|------|
| SD 480-71 | 480 | 380 | 1266 | 6661 | 820 | 28 x M24 x 140 | 785 | 188 | 97 | 213 | 570 | 490 | 12.5 | 463 |
| | | 390 | 1341 | 6879 | | | | | | | | | | |
| | | 400 | 1420 | 7098 | | | | | | | | | | |
| SD 500-71 | 500 | 400 | 1710 | 8551 | 1210 | 24 x M27 x 150 | 840 | 188 | 96 | 214 | 590 | 508 | 13.0 | 547 |
| | | 410 | 1796 | 8763 | | | | | | | | | | |
| | | 420 | 1895 | 9022 | | | | | | | | | | |
| SD 530-71 | 530 | 430 | 2102 | 9776 | 1210 | 30 x M27 x 160 | 910 | 213 | 108 | 238 | 620 | 540 | 12.5 | 744 |
| | | 440 | 2211 | 10051 | | | | | | | | | | |
| | | 450 | 2324 | 10328 | | | | | | | | | | |
| SD 560-71 | 560 | 450 | 2195 | 9757 | 1210 | 30 x M27 x 160 | 940 | 213 | 108 | 238 | 650 | 568 | 12.5 | 776 |
| | | 460 | 2304 | 10019 | | | | | | | | | | |
| | | 470 | 2417 | 10283 | | | | | | | | | | |
| SD 590-71 | 590 | 470 | 2732 | 11623 | 1210 | 36 x M27 x 180 | 945 | 228 | 118 | 260 | 684 | 600 | 16.0 | 794 |
| | | 480 | 2860 | 11918 | | | | | | | | | | |
| | | 490 | 2992 | 12212 | | | | | | | | | | |
| SD 620-71 | 620 | 500 | 2961 | 11845 | 1640 | 30 x M30 x 190 | 970 | 254 | 131 | 288 | 726 | 630 | 17.0 | 903 |
| | | 510 | 3077 | 12068 | | | | | | | | | | |
| | | 520 | 3213 | 12359 | | | | | | | | | | |
| SD 660-71 | 660 | 530 | 3428 | 12938 | 1640 | 30 x M30 x 190 | 1045 | 260 | 133 | 292 | 766 | 670 | 16.0 | 1090 |
| | | 540 | 3573 | 13235 | | | | | | | | | | |
| | | 550 | 3721 | 13532 | | | | | | | | | | |
| SD 700-71 | 700 | 560 | 3988 | 14242 | 1640 | 36 x M30 x 190 | 1120 | 260 | 133 | 292 | 806 | 710 | 16.0 | 1269 |
| | | 575 | 4226 | 14698 | | | | | | | | | | |
| | | 590 | 4471 | 15156 | | | | | | | | | | |
| SD 750-71 | 750 | 600 | 4766 | 15887 | 1640 | 40 x M30 x 200 | 1150 | 278 | 141 | 310 | 864 | 760 | 16.0 | 1350 |
| | | 615 | 5030 | 16359 | | | | | | | | | | |
| | | 630 | 5302 | 16832 | | | | | | | | | | |
| SD 800-71 | 800 | 645 | 5810 | 18014 | 1640 | 45 x M30 x 210 | 1270 | 296 | 153 | 334 | 920 | 810 | 19.0 | 1839 |
| | | 660 | 6111 | 18518 | | | | | | | | | | |
| | | 675 | 6420 | 19022 | | | | | | | | | | |
| SD 900-71 | 900 | 720 | 7439 | 20664 | 2210 | 40 x M33 x 240 | 1420 | 332 | 170 | 370 | 1030 | 910 | 19.0 | 2558 |
| | | 740 | 7900 | 21350 | | | | | | | | | | |
| | | 760 | 8375 | 22040 | | | | | | | | | | |

Further sizes on request, subject to technical changes.

*Locking bolts: DIN EN ISO 4014/4017 grade 10.9 as standard, alternatively DIN EN ISO 4762 grade 10.9

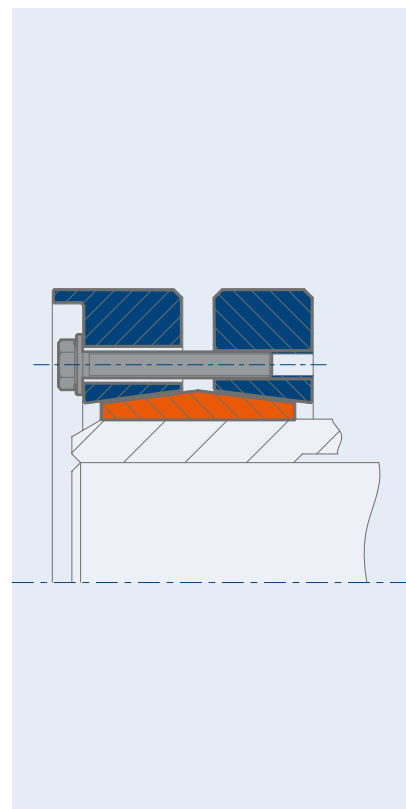
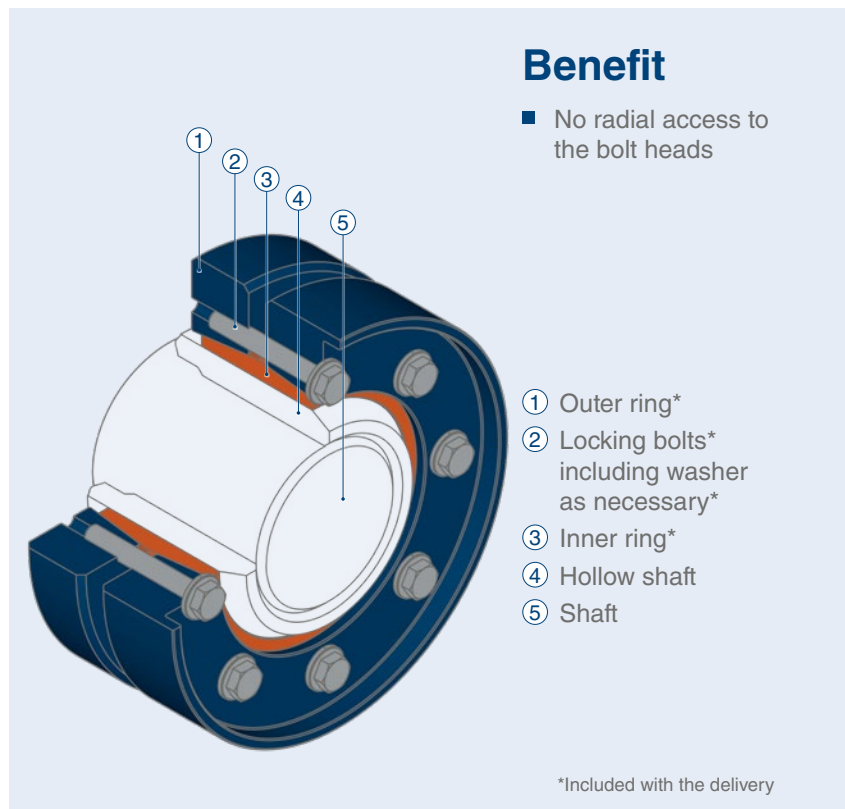
When ordering please state: (Type x Ød), e.g. SD-500-71x500

**You have not found what you are looking for in our comprehensive range of standard-products?
We will be happy to promptly prepare any form of custom-made product and development innovation
even using special materials such as 1.3974. Please feel free to contact us.**

SHRINK DISC TYPE SD – SPECIAL SOLUTIONS

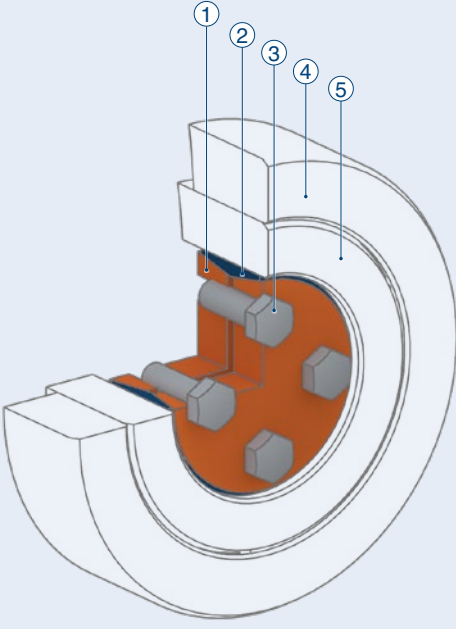
STÜWE® SD with Protection

Connection element with a protrusion on the outer ring



STÜWE® Individual solution USD

Internal locking frictional connection

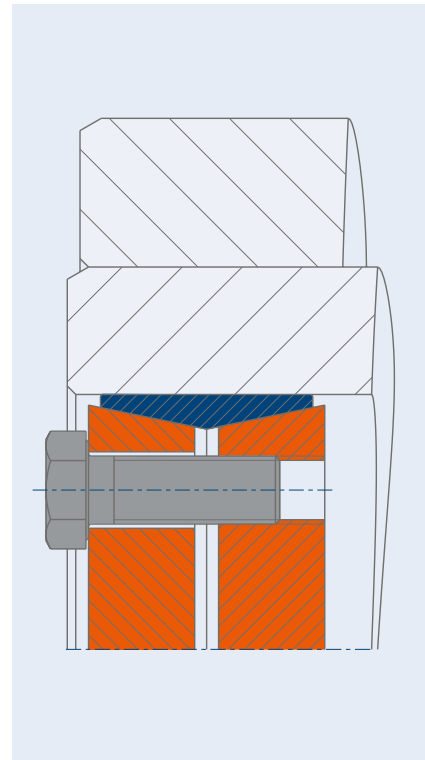


Benefits

- Less components
- Outside the flow of loads
- Alternative to UHSD
- Possible compensation of varying fitting tolerance

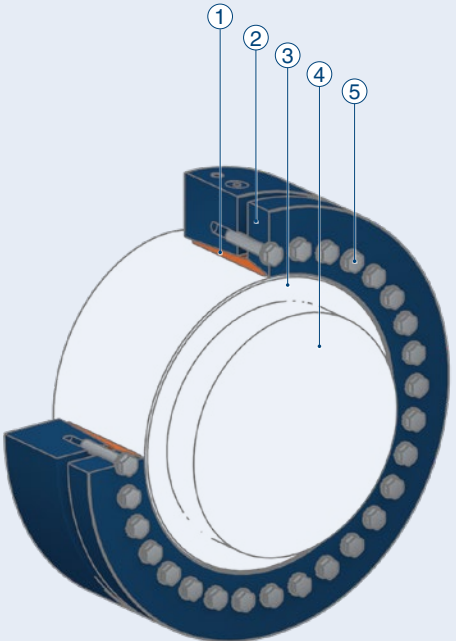
① Inner ring*
 ② Outer ring*
 ③ Locking bolts* including washer as necessary*
 ④ Hub
 ⑤ Shaft

*Included with the delivery



STÜWE® Individual solution SDB

Connection element for particularly compact installation spaces



Benefits

- Reduced width in non-tensioned condition
- Smaller protrusion on one side
- Compact design for limited width

① Inner ring*
 ② Outer ring*
 ③ Hub
 ④ Shaft
 ⑤ Locking bolts* including washer as necessary*

*Included with the delivery

