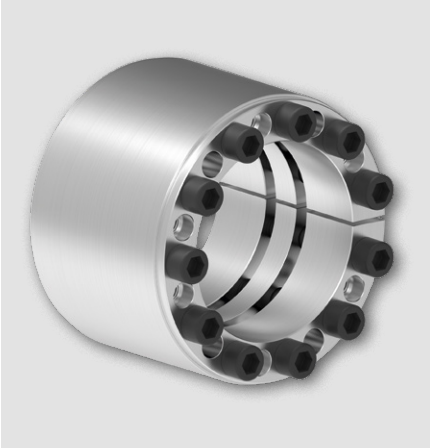
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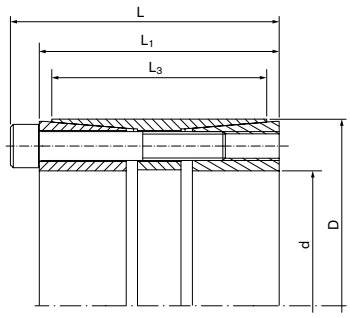
**EN** | **Tech Paper** **05.2024**

# Locking Assemblies
# RINGFEDER® RfN 7005
## Three piece self-centering design for heavy duty torques



**self-centering** | without axial displacement | with low surface pressure

Dimensions




| Locking Assembly dimensions | | | | | | Transmissible torques or axial forces | | Surface pressure | | Locking screws | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Shaft | Hub | | | | |
| d | x | D | L | $L_1$ | $L_3$ | T | $F_{ax}$ | $p_W$ | $p_N$ | $n_{Sc}$ | $D_G$ | $T_A$ | Gw |
| mm | | | mm | | | Nm | kN | N/mm² | | | | Nm | kg |
| 25 | x | 55 | 46 | 40 | 32 | 649 | 64 | 155 | 80 | 6 | M6 | 17 | 0,5 |
| 28 | x | 55 | 46 | 40 | 32 | 875 | 64 | 250 | 95 | 6 | M6 | 17 | 0,5 |
| 30 | x | 55 | 46 | 40 | 32 | 950 | 64 | 235 | 95 | 6 | M6 | 17 | 0,5 |
| 35 | x | 60 | 60 | 54 | 44 | 1300 | 74 | 165 | 75 | 7 | M6 | 17 | 0,7 |
| 38 | x | 65 | 61 | 55 | 45 | 1600 | 84 | 165 | 95 | 8 | M6 | 17 | 1,1 |
| 40 | x | 65 | 61 | 55 | 45 | 1680 | 84 | 155 | 95 | 8 | M6 | 17 | 1,1 |
| 42 | x | 75 | 62 | 54 | 44 | 2800 | 135 | 250 | 110 | 7 | M8 | 41 | 1,2 |
| 45 | x | 75 | 62 | 54 | 44 | 3050 | 135 | 235 | 110 | 7 | M8 | 41 | 1,1 |
| 48 | x | 80 | 74 | 66 | 56 | 3700 | 155 | 195 | 90 | 8 | M8 | 41 | 1,5 |
| 50 | x | 80 | 74 | 66 | 56 | 3950 | 155 | 185 | 90 | 8 | M8 | 41 | 1,4 |
| 55 | x | 85 | 74 | 66 | 56 | 4900 | 174 | 190 | 100 | 9 | M8 | 41 | 1,5 |
| 60 | x | 90 | 74 | 66 | 56 | 5900 | 193 | 195 | 100 | 10 | M8 | 41 | 1,6 |
| 65 | x | 95 | 74 | 66 | 56 | 6450 | 193 | 180 | 95 | 10 | M8 | 41 | 1,7 |
| 70 | x | 110 | 90 | 80 | 70 | 10950 | 313 | 210 | 110 | 10 | M10 | 83 | 3,1 |
| 75 | x | 115 | 90 | 80 | 70 | 11700 | 313 | 200 | 105 | 10 | M10 | 83 | 3,3 |
| 80 | x | 120 | 90 | 80 | 70 | 13750 | 344 | 205 | 110 | 11 | M10 | 83 | 3,5 |
| 85 | x | 125 | 90 | 80 | 70 | 16000 | 375 | 210 | 115 | 12 | M10 | 83 | 3,6 |
| 90 | x | 130 | 90 | 80 | 70 | 16900 | 375 | 200 | 110 | 12 | M10 | 83 | 3,8 |
| 95 | x | 135 | 90 | 80 | 70 | 17820 | 375 | 185 | 105 | 12 | M10 | 83 | 4 |
| 100 | x | 145 | 114 | 102 | 90 | 25725 | 514 | 195 | 105 | 11 | M12 | 145 | 6,1 |
| 110 | x | 155 | 114 | 102 | 90 | 30850 | 561 | 195 | 110 | 12 | M12 | 145 | 6,6 |
| 120 | x | 165 | 114 | 102 | 90 | 39275 | 655 | 210 | 115 | 14 | M12 | 145 | 7,1 |
| 130 | x | 180 | 130 | 116 | 104 | 50300 | 774 | 190 | 110 | 12 | M14 | 230 | 10 |

**To continue see next page**

# Locking Assemblies RINGFEDER® RfN 7005

| Locking Assembly dimensions | | | | | | Transmissible torques or axial forces | | Surface pressure | | Locking screws | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Shaft | Hub | | | | |
| d | x | D | L | $L_1$ | $L_3$ | T | $F_{ax}$ | $p_W$ | $p_N$ | $n_{Sc}$ | $D_G$ | $T_A$ | Gw |
| mm | | | mm | | | Nm | kN | N/mm² | | | | Nm | kg |
| 140 | x | 190 | 130 | 116 | 104 | 63200 | 903 | 205 | 120 | 14 | M14 | 230 | 10,6 |
| 150 | x | 200 | 130 | 116 | 104 | 72550 | 967 | 205 | 125 | 15 | M14 | 230 | 11,2 |
| 160 | x | 210 | 130 | 116 | 104 | 82550 | 1032 | 205 | 125 | 16 | M14 | 230 | 11,9 |
| 170 | x | 225 | 165 | 149 | 134 | 103800 | 1221 | 170 | 110 | 14 | M16 | 360 | 17,6 |
| 180 | x | 235 | 165 | 149 | 134 | 117800 | 1308 | 175 | 110 | 15 | M16 | 360 | 18,5 |
| 190 | x | 250 | 165 | 149 | 134 | 132600 | 1395 | 180 | 110 | 16 | M16 | 360 | 21,4 |
| 200 | x | 260 | 165 | 149 | 134 | 140000 | 1400 | 170 | 110 | 16 | M16 | 360 | 22,4 |
| 220 | x | 285 | 166 | 150 | 134 | 173000 | 1570 | 170 | 110 | 18 | M16 | 360 | 26,6 |
| 240 | x | 305 | 162 | 146 | 134 | 218000 | 1820 | 185 | 120 | 20 | M16 | 360 | 28,7 |
| 260 | x | 325 | 162 | 146 | 134 | 250000 | 1920 | 180 | 120 | 21 | M16 | 360 | 31,2 |
| 280 | x | 355 | 197 | 177 | 165 | 360000 | 2550 | 185 | 120 | 18 | M20 | 690 | 46,8 |
| 300 | x | 375 | 197 | 177 | 165 | 428000 | 2850 | 190 | 125 | 20 | M20 | 690 | 49,7 |
| 320 | x | 405 | 197 | 177 | 165 | 480000 | 3000 | 190 | 120 | 21 | M20 | 690 | 60,5 |
| 340 | x | 425 | 197 | 177 | 165 | 534000 | 3140 | 185 | 120 | 22 | M20 | 690 | 63,9 |
| 360 | x | 455 | 224 | 202 | 190 | 670000 | 3730 | 175 | 115 | 21 | M22 | 930 | 86,8 |
| 380 | x | 475 | 224 | 202 | 190 | 742000 | 3900 | 175 | 115 | 22 | M22 | 930 | 91 |
| 400 | x | 495 | 224 | 202 | 190 | 852000 | 4260 | 180 | 120 | 24 | M22 | 930 | 97 |
| 420 | x | 515 | 224 | 202 | 190 | 894000 | 4260 | 175 | 115 | 24 | M22 | 930 | 100 |
| 440 | x | 535 | 224 | 202 | 190 | 937000 | 4260 | 165 | 110 | 24 | M22 | 930 | 105 |
| 460 | x | 555 | 224 | 202 | 190 | 980000 | 4260 | 160 | 110 | 24 | M22 | 930 | 109 |
| 480 | x | 575 | 224 | 202 | 190 | 1200000 | 5000 | 175 | 120 | 28 | M22 | 930 | 114 |
| 500 | x | 595 | 224 | 202 | 190 | 1240000 | 5000 | 170 | 120 | 28 | M22 | 930 | 119 |
| 520 | x | 615 | 224 | 202 | 190 | 1390000 | 5330 | 175 | 120 | 30 | M22 | 930 | 122,5 |
| 540 | x | 635 | 224 | 202 | 190 | 1440000 | 5330 | 170 | 120 | 30 | M22 | 930 | 128 |
| 560 | x | 655 | 224 | 202 | 190 | 1590000 | 5680 | 170 | 120 | 32 | M22 | 930 | 131 |
| 580 | x | 675 | 224 | 202 | 190 | 1705000 | 5680 | 170 | 120 | 32 | M22 | 930 | 138 |
| 600 | x | 695 | 224 | 202 | 190 | 1760000 | 5860 | 170 | 120 | 33 | M22 | 930 | 139 |

More sizes on request

To continue see next page

# Locking Assemblies RINGFEDER® RfN 7005

## Explanation

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **d** | = | Inner diameter | **T** | = | Transmissible torque at given $T_A$ | **$D_G$** | = | Thread |
| **D** | = | Outer diameter | **$F_{ax}$** | = | Transmissible axial force | **$T_A$** | = | Tightening torque of the clamping screws |
| **L** | = | Overall length | **$p_W$** | = | Surface pressure on shaft at given $T_A$ | **Gw** | = | Weight |
| **$L_1$** | = | Overall length (without screws) | **$p_N$** | = | Surface pressure on hub at given $T_A$ | | | |
| **$L_3$** | = | Width of ring | **$n_{Sc}$** | = | Quantity of screws | | | |

## Ordering example

| Locking assembly | d | D |
|---|---|---|
| **RfN 7005** | **35** | **60** |

**Technical Information**

- Surface finishes: Shaft and hub bores $R_a \leq 1{,}6$ µm
- Tolerances: Shaft: h8 · Hub: H8

Further information on
**RINGFEDER® RfN 7005**
on **www.ringfeder.com**

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