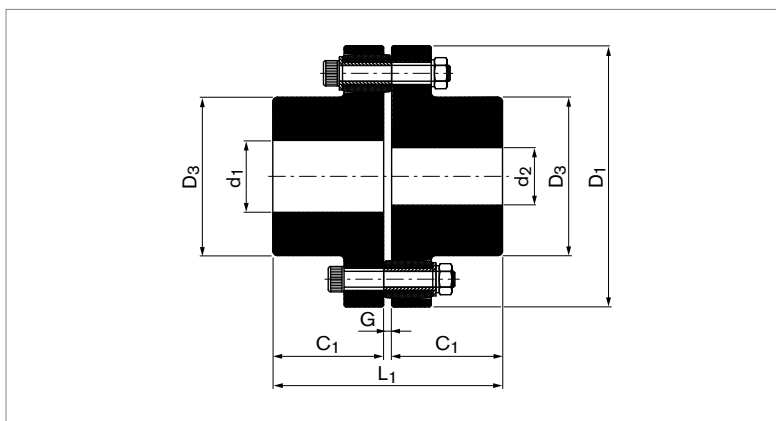


# Pin & Bush Couplings

## RINGFEDER® RLP

Standard Design with Straight Bores and Keyways (Type BWB),  
also available with Spacer (Type BSB)

RLP BWB: Type without Spacers

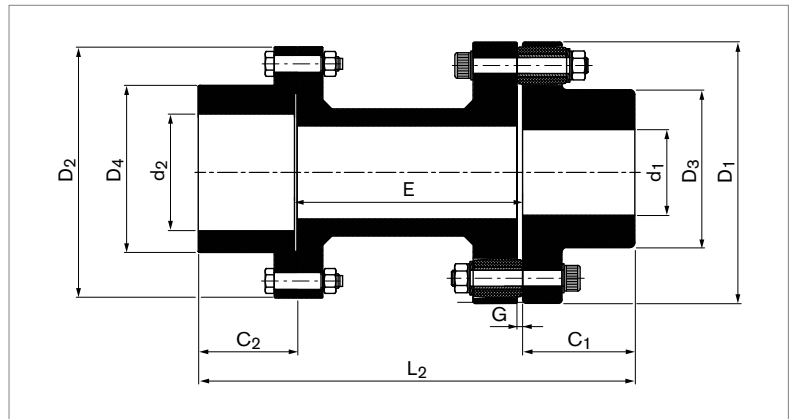
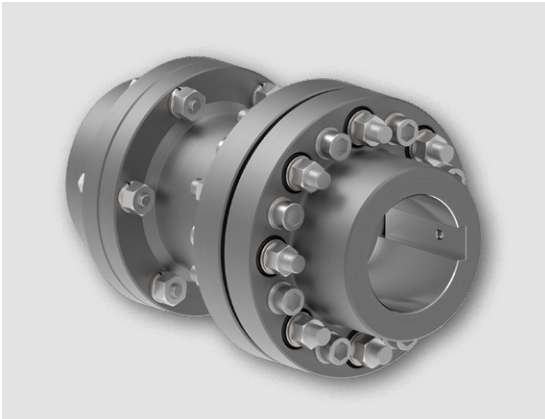


| Size | T <sub>KN</sub> | n <sub>max</sub> | Bore Diameter d <sub>1</sub> /d <sub>2</sub> |      | D <sub>1</sub> | D <sub>3</sub> | C <sub>1</sub> | G  | L <sub>1</sub> | Gw    | J     | n <sub>Sc</sub> | D <sub>G</sub> | Max. Misalignment |                 |                 |
|------|-----------------|------------------|----------------------------------------------|------|----------------|----------------|----------------|----|----------------|-------|-------|-----------------|----------------|-------------------|-----------------|-----------------|
|      |                 |                  | Min.                                         | Max. |                |                |                |    |                |       |       |                 |                | Δ <sub>Ka</sub>   | Δ <sub>Kr</sub> | Δ <sub>Kw</sub> |
| RLP  | Nm              | 1/min            | mm                                           | mm   | mm             | mm             | mm             | mm | mm             | kg    | kg-m2 |                 | mm             | mm                | mm              | °               |
| 90   | 325             | 6000             | 16                                           | 35   | 90             | 48             | 40             | 3  | 83             | 2.53  | 0.002 | 8               | M6             | -                 | -               | -               |
| 125  | 900             | 5800             | 16                                           | 50   | 125            | 70             | 50             | 3  | 103            | 6     | 0.009 | 12              | M8             | 0.5               | 0.6             | 0.26            |
| 145  | 1500            | 5500             | 16                                           | 58   | 145            | 80             | 65             | 5  | 135            | 10.1  | 0.02  | 12              | M10            | 0.5               | 0.6             | 0.25            |
| 165  | 2100            | 4800             | 22                                           | 75   | 165            | 100            | 70             | 5  | 145            | 14.7  | 0.037 | 12              | M10            | 0.5               | 0.6             | 0.25            |
| 195  | 4200            | 4400             | 32                                           | 90   | 195            | 120            | 90             | 5  | 185            | 27.13 | 0.09  | 12              | M12            | 0.5               | 0.8             | 0.24            |
| 240  | 9000            | 3600             | 42                                           | 110  | 240            | 150            | 105            | 5  | 215            | 46.6  | 0.246 | 16              | M16            | 0.8               | 0.8             | 0.24            |
| 290  | 17000           | 3000             | 60                                           | 130  | 290            | 180            | 125            | 6  | 256            | 86.2  | 0.7   | 16              | M20            | 0.8               | 0.8             | 0.2             |
| 320  | 22000           | 2600             | 70                                           | 150  | 320            | 210            | 151            | 6  | 308            | 124.3 | 1.17  | 16              | M20            | 0.8               | 1               | 0.2             |
| 350  | 30000           | 2400             | 76                                           | 160  | 350            | 225            | 161            | 6  | 328            | 161.7 | 1.88  | 16              | M24            | 0.8               | 1               | 0.18            |
| 380  | 37500           | 2200             | 80                                           | 180  | 380            | 245            | 181            | 6  | 368            | 206.4 | 2.73  | 16              | M24            | 1                 | 1               | 0.18            |

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## Pin & Bush Couplings RINGFEDER® RLP

### RLP BSB: Type with Spacers



| Size   | T <sub>KN</sub> | n <sub>max</sub> | Max. Bore Diameter |                | D <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub> | D <sub>4</sub> | C <sub>1</sub> | C <sub>2</sub> | E   | G  | G <sub>w</sub> | J                 | n <sub>Sc</sub> | D <sub>G</sub> | Max. Misalignment |                 |                 |
|--------|-----------------|------------------|--------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----|----|----------------|-------------------|-----------------|----------------|-------------------|-----------------|-----------------|
|        |                 |                  | d <sub>1</sub>     | d <sub>2</sub> |                |                |                |                |                |                |     |    |                |                   |                 |                | Δ <sub>Ka</sub>   | Δ <sub>Kr</sub> | Δ <sub>Kw</sub> |
| RLP    | Nm              | 1/min            | mm                 | mm             | mm             | mm             | mm             | mm             | mm             | mm             | mm  | mm | kg             | kg·m <sup>2</sup> |                 | mm             | mm                | mm              | °               |
| 165-15 | 2100            | 4800             | 75                 | 80             | 165            | 152            | 100            | 107            | 70             | 46             | 140 | 5  | 26.7           | 0.053             | 12              | M10            | 0.5               | 0.6             | 0.25            |
| 165-25 | 2100            | 4800             | 75                 | 110            | 165            | 213            | 100            | 157            | 70             | 73             | 140 | 5  | 36             | 0.096             | 12              | M10            | 0.5               | 0.6             | 0.25            |
|        |                 |                  |                    |                |                |                |                |                |                |                | 180 |    | 36.6           | 0.098             | 12              | M10            |                   |                 |                 |
| 195-25 | 4200            | 4400             | 90                 | 110            | 195            | 213            | 120            | 157            | 90             | 73             | 140 | 5  | 51.5           | 0.155             | 12              | M12            | 0.5               | 0.8             | 0.24            |
|        |                 |                  |                    |                |                |                |                |                |                |                | 180 |    | 52.3           | 0.157             | 12              | M12            |                   |                 |                 |
| 240-25 | 9000            | 3600             | 110                | 110            | 240            | 213            | 150            | 157            | 110            | 73             | 140 | 5  | 78.7           | 0.322             | 16              | M16            | 0.8               | 0.8             | 0.24            |
|        |                 |                  |                    |                |                |                |                |                |                |                | 180 |    | 79.4           | 0.323             | 16              | M16            |                   |                 |                 |
| 290-30 | 17000           | 3000             | 130                | 130            | 290            | 240            | 180            | 182            | 130            | 88             | 180 | 6  | 136.7          | 0.954             | 16              | M20            | 0.8               | 0.8             | 0.2             |
| 320-35 | 22000           | 2600             | 150                | 150            | 320            | 279            | 210            | 212            | 150            | 102            | 180 | 6  | 198.4          | 1.432             | 16              | M20            | 0.8               | 1               | 0.2             |
| 320-40 | 22000           | 2600             | 150                | 180            | 320            | 318            | 210            | 250            | 150            | 115            | 180 | 6  | 213.9          | 1.302             | 16              | M20            | 0.8               | 1               | 0.2             |
| 350-40 | 30000           | 2400             | 160                | 180            | 350            | 318            | 225            | 250            | 160            | 115            | 180 | 6  | 258            | 2.33              | 16              | M24            | 0.8               | 1               | 0.18            |
| 380-40 | 37500           | 2200             | 180                | 180            | 380            | 318            | 245            | 250            | 180            | 115            | 180 | 6  | 314.7          | 3.142             | 16              | M24            | 1                 | 1               | 0.18            |

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## Pin & Bush Couplings RINGFEDER® RLP

### Explanations

|                                      |                                       |                                                      |
|--------------------------------------|---------------------------------------|------------------------------------------------------|
| $T_{KN}$ = Nom. Transmissible Torque | $E$ = Distance Between Shaft Ends     | $D_G$ = Thread                                       |
| $n_{max}$ = Max. Rotational Speed    | $G$ = Width of Gap Between Components | $\Delta K_a$ = Max. Permissible Axial Misalignment   |
| $d_1/d_2$ = Bore Diameter Hubs       | $L_1/L_2$ = Total Length              | $\Delta K_r$ = Max. Permissible Radial Misalignment  |
| $D_1/D_2$ = Max. Outer Diameter      | $G_w$ = Approx. Weight                | $\Delta K_w$ = Max. Permissible Angular Misalignment |
| $D_3/D_4$ = Outer Diameter Hubs      | $J$ = Approx. Moment of Inertia       |                                                      |
| $C_1/C_2$ = Guided Length in Bore    | $n_{sc}$ = Number of Pins             |                                                      |

#### Technical Information

- All dimensions are in millimeters, unless otherwise specified. Decimal points are used as decimal separators.
- For vertical installation, please contact RINGFEDER POWER TRANSMISSION.
- For other types of shaft-hub-connections, please contact RINGFEDER POWER TRANSMISSION.
- If you need detailed information about torque transmission, please contact RINGFEDER POWER TRANSMISSION.
- Please contact RINGFEDER POWER TRANSMISSION for maximum bore with square key.
- Weight "Gw" and Moment of Inertia "J" are given at maximum bore diameter.
- For the dimension  $L_2$ , calculate " $C_1 + C_2 + E$ ".
- All elastomers of the "RLP" coupling are made of Polyurethane (PU).
- All hubs of the "RLP" coupling are made of steel.
- The torque can be adjusted by reducing the number of pins.

### Ordering example RLP without Spacer

| Series | Type | Size | Number of Pins<br>$n_{sc}$ | Bore Diameter<br>$d_1$ | Bore Diameter<br>$d_2$ |
|--------|------|------|----------------------------|------------------------|------------------------|
| RLP    | BWB  | 145  | P12                        | 35                     | 45                     |

### Ordering example RLP with Spacer

| Series | Type | Size   | Distance Between<br>Shaft Ends E | Number of Pins<br>$n_{sc}$ | Bore Diameter<br>$d_1$ | Bore Diameter<br>$d_2$ |
|--------|------|--------|----------------------------------|----------------------------|------------------------|------------------------|
| RLP    | BSB  | 290-30 | E180                             | P16                        | 100                    | 125                    |

#### Ordering Information

- Use letter "W" in the type, for RLP without Spacer.
- Use letter "S" in the type, for RLP with Spacer.
- Without further specifications, we deliver as standard: Bore tolerance H7; Keyway acc. to DIN 6885-1; Keyway width tolerance JS9; Set screw per hub. For bores complying with AGMA or other specifications, please contact RINGFEDER POWER TRANSMISSION.

#### Disclaimer of liability

All technical details and notes are non-binding and cannot be used as a basis for legal claims. The user is obligated to determine whether the represented products meet his requirements. We reserve the right to carry out modifications at any time in the interests of technical progress.