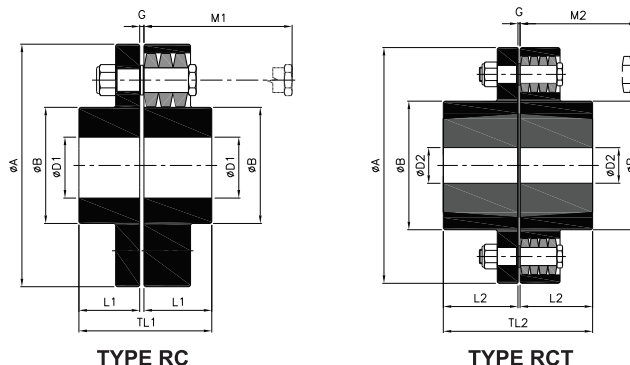


# CONE-FLEX COUPLINGS TYPE RC / RCT



## TECHNICAL DATA

| Type   | Size | POWER RATING   |                 |               |                 |               |                 | Max. Speed RPM | ØD1(RC)   |           | #ØD2(RCT) |           | Dimensions  |     |     |     |     |     |     |     | Wt. in Kg (Min. Bore) |     | M.I. (WR <sup>2</sup> ) Kg m <sup>2</sup> (Min. Bore) |         |        |        |
|--------|------|----------------|-----------------|---------------|-----------------|---------------|-----------------|----------------|-----------|-----------|-----------|-----------|-------------|-----|-----|-----|-----|-----|-----|-----|-----------------------|-----|---|---------|--------|--------|
|        |      | Nitrile Rubber |                 | Polyurethane  |                 | HTrans        |                 |                | Min. Bore | Max. Bore | Min. Bore | Max. Bore | # Bush Size | ØA  | ØB  | L1  | L2  | G   | TL1 | TL2 | RC                    | RCT | RC  | RCT     |        |        |
|        |      | KW at 100 RPM  | Rated Torque Nm | KW at 100 RPM | Rated Torque Nm | KW at 100 RPM | Rated Torque Nm |                |           |           |           |           |             |     |     |     |     |     |     |     |                       |     |   |         | M1     | M2     |
| RC     | 020  | 0.56           | 53              | 0.84          | 80              | 1.40          | 134             | 6500           | 12        | 22        | -         | -         | 89          | 35  | 33  | -   | 3   | 69  | -   | 30  | -                     | 1.4 | -   | 0.0015  | -      |        |
|        | 030  | 1.2            | 115             | 1.8           | 172             | 3.0           | 286             | 5470           | 12        | 32        | -         | -         | 127         | 51  | 41  | -   | 3   | 85  | -   | 28  | -                     | 3.7 | -   | 0.0078  | -      |        |
|        | 038  | 2.0            | 191             | 3.0           | 286             | 5.0           | 477             | 5260           | 15        | 40        | -         | -         | 132         | 64  | 48  | -   | 3   | 99  | -   | 22  | -                     | 4.2 | -   | 0.0095  | -      |        |
| RC/RCT | 042  | 3.0            | 286             | 4.5           | 430             | 7.5           | 716             | 4750           | 15        | 44        | 12        | 30        | 1215        | 146 | 70  | 56  | 38  | 3   | 115 | 79  | 14                    | 32  | 5.6   | 5       | 0.0144 | 0.0163 |
|        | 048  | 5.0            | 477             | 7.5           | 716             | 12.5          | 1194            | 4050           | 21        | 52        | 14        | 38        | 1615        | 171 | 81  | 61  | 38  | 3   | 125 | 79  | 28                    | 52  | 6.4   | 9       | 0.0357 | 0.0346 |
|        | 058  | 8.0            | 764             | 12.0          | 1146            | 20            | 1910            | 3600           | 21        | 62        | 14        | 45        | 2017        | 193 | 97  | 68  | 45  | 3   | 139 | 93  | 24                    | 52  | 13  | 12      | 0.0588 | 0.0567 |
|        | 070  | 11.0           | 1050            | 17            | 1576            | 28            | 2626            | 3220           | 21        | 74        | 16        | 60        | 2525        | 216 | 117 | 76  | 64  | 3   | 155 | 130 | 23                    | 28  | 19  | 17      | 0.0980 | 0.0951 |
|        | 075  | 27             | 2578            | 41            | 3867            | 68            | 6446            | 2730           | 28        | 80        | 16        | 60        | 2525        | 254 | 127 | 88  | 64  | 3   | 179 | 131 | 50                    | 28  | 34  | 33      | 0.2882 | 0.2827 |
|        | 085  | 37             | 3533            | 56            | 5300            | 93            | 8833            | 2480           | 28        | 92        | 24        | 75        | 3030        | 279 | 147 | 100 | 76  | 3   | 203 | 155 | 38                    | 60  | 45  | 37      | 0.4337 | 0.4237 |
|        | 105  | 56             | 5348            | 84            | 8021            | 140           | 13369           | 2100           | 34        | 114       | 35        | 90        | 3535        | 330 | 180 | 117 | 89  | 3   | 237 | 181 | 25                    | 54  | 67  | 59      | 0.8767 | 0.8529 |
|        | 120  | 94             | 8976            | 141           | 13465           | 235           | 22441           | 1880           | 61        | 130       | 40        | 100       | 4040        | 370 | 206 | 132 | 102 | 6   | 270 | 210 | 48                    | 78  | 95  | 95      | 1.9162 | 1.8753 |
|        | 135  | 128            | 12223           | 192           | 18335           | 320           | 30558           | 1660           | 67        | 144       | 55        | 110       | 4545        | 419 | 230 | 147 | 114 | 6   | 300 | 235 | 35                    | 68  | 128   | 120     | 3.1724 | 3.1032 |
|        | 150  | 167            | 15947           | 251           | 23921           | 418           | 39868           | 1520           | 82        | 160       | 70        | 125       | 5050        | 457 | 256 | 165 | 127 | 6   | 336 | 260 | 16                    | 55  | 154   | 141     | 4.6277 | 4.4951 |
| RC     | 170  | 262            | 25019           | 393           | 37529           | -             | -               | 1300           | 96        | 184       | -         | -         | 533         | 292 | 188 | -   | 6   | 382 | -   | 48  | -                     | 249 | -   | 10.5670 | -      |        |
|        | 190  | 360            | 34377           | 540           | 51566           | -             | -               | 1170           | 122       | 206       | -         | -         | 597         | 330 | 211 | -   | 6   | 428 | -   | 28  | -                     | 304 | -   | 17.0054 | -      |        |
|        | 215  | 471            | 44977           | 707           | 67466           | -             | -               | 1050           | 135       | 230       | -         | -         | 660         | 368 | 237 | -   | 6   | 480 | -   | 10  | -                     | 392 | -   | 26.1883 | -      |        |
|        | 240  | 788            | 75248           | -             | -               | -             | -               | 800            | 152       | 254       | -         | -         | 737         | 407 | 264 | -   | 6   | 534 | -   | 43  | -                     | 578 | -   | 50.1718 | -      |        |
|        | 265  | 1047           | 99981           | -             | -               | -             | -               | 700            | 165       | 286       | -         | -         | 826         | 457 | 292 | -   | 6   | 590 | -   | 15  | -                     | 775 | -   | 81.8464 | -      |        |

- Notes :
- Maintain gap G at the time of assembly
  - For vertical installation contact RATHI.
  - Consult RATHI for Max Bore with Square Key.
  - # Available only with Taper Bore, without Taper Bush.
  - CONSULT RATHI FOR MAX SHALLOW KEYWAY.

Axial Misalignment : Size 020 to 058 : 2 mm ( ± ), Size 070 to 135 : 3 mm ( ± ), Size 150 to 215 : 2 mm ( ± ), Size 240 to 265 : 1.5 mm ( ± )

Angular Misalignment : Size 020 to 135 : 1°, Size 150 to 265 : 0.5°

Radial Misalignment : Size 020 : 0.3 mm ( ± ), Size 030 to 042 : 0.4 mm ( ± ), Size 048 to 058 : 0.5 mm ( ± ), Size 070 to 075 : 0.6 mm ( ± ), Size 085 to 105 : 0.7 mm ( ± ), Size 120 : 0.9 mm ( ± ), Size 135 to 170 : 0.11 mm ( ± ), Size 190 to 215 : 0.15 mm ( ± ), Size 240 to 265 : 0.18 mm ( ± ),

## SPARE PARTS

| Type RC |                   |                    | Type RCT |           |                   |                    | Pins and Nuts  |          |                 | Cone Rings   |                 |    |
|---------|-------------------|--------------------|----------|-----------|-------------------|--------------------|----------------|----------|-----------------|--------------|-----------------|----|
| Size    | Pin Half Part No. | Bush Half Part No. | Size     | Bush Size | Pin Half Part No. | Bush Half Part No. | Pin Part No.   | Nut Size | No/per Coupling | Part No.     | No/per Coupling |    |
| RC-020  | RC020/1           | RC020/2            | -        | -         | -                 | -                  | GC 3/4" /3/5   | M 8      | 6               | GC 3/4" /4   | 18              |    |
| RC-030  | RC030/1           | RC030/2            | -        | -         | -                 | 4                  |                |          |                 |              |                 |    |
| RC-038  | RC038/1           | RC038/2            | -        | -         | -                 | 6                  |                |          |                 |              | 18              |    |
| RC-042  | RC042/1           | RC042/2            | RCT-042  | 1215      | RCT042/1          | RCT042/2           | GC 1 1/3" /3/5 | M 10     | 8               | GC 1" /4     | 24              |    |
| RC-048  | RC048/1           | RC048/2            | RCT-048  | 1615      | RCT048/1          | RCT048/2           |                |          |                 |              | 6               | 18 |
| RC-058  | RC058/1           | RC058/2            | RCT-058  | 2017      | RCT058/1          | RCT058/2           |                |          |                 |              | 8               | 24 |
| RC-070  | RC070/1           | RC070/2            | RCT-070  | 2525      | RCT070/1          | RCT070/2           | GC 1 3/4" /3/5 | M 12     | 10              | GC 1 3/4" /4 | 30              |    |
| RC-075  | RC075/1           | RC075/2            | -        | -         | -                 | -                  |                |          |                 |              | 8               | 32 |
| RC-085  | RC085/1           | RC085/2            | RCT-085  | 3030      | RCT085/1          | RCT085/2           |                |          |                 |              | 10              | 40 |
| RC-105  | RC105/1           | RC105/2            | RCT-105  | 3535      | RCT105/1          | RCT105/2           | GC 2 3/4" /3/5 | M 20     | 12              | GC 2 3/4" /4 | 48              |    |
| RC-120  | RC120/1           | RC120/2            | RCT-120  | 4040      | RCT120/1          | RCT120/2           |                |          |                 |              | 10              | 40 |
| RC-135  | RC135/1           | RC135/2            | RCT-135  | 4545      | RCT135/1          | RCT135/2           |                |          |                 |              | 12              | 48 |
| RC-150  | RC150/1           | RC150/2            | RCT-150  | 5050      | RCT150/1          | RCT150/2           | GC 4 1/4" /3/5 | M 24     | 14              | GC 4 1/4" /4 | 56              |    |
| RC-170  | RC170/1           | RC170/2            | -        | -         | -                 | -                  |                |          |                 |              | 10              | 40 |
| RC-190  | RC190/1           | RC190/2            | -        | -         | -                 | -                  |                |          |                 |              | 12              | 48 |
| RC-215  | RC215/1           | RC215/2            | -        | -         | -                 | -                  | GC 6 1/4" /3/5 | M 36     | 14              | GC 6 1/4" /4 | 56              |    |
| RC-240  | RC240/1           | RC240/2            | -        | -         | -                 | -                  |                |          |                 |              | 12              | 48 |
| RC-265  | RC265/1           | RC265/2            | -        | -         | -                 | -                  |                |          |                 |              | 14              | 56 |