



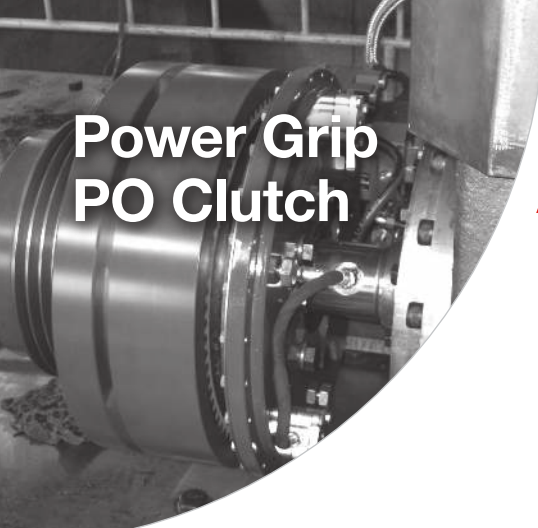
# Power Grip & Power Grip PO Clutches



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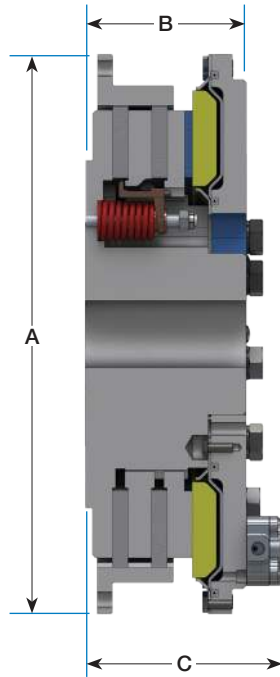
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# Power Grip PO Clutch



The WPT Power Grip PO Clutch is a pneumatic clutch suitable for inline or shaft-to-shaft applications. This design utilizes a large diaphragm that compensates for wear during the life of the friction material, no adjustment necessary. WPT's Power Grip PO Clutch is available in 1, 2, or 3 plate construction with diameters ranging from 14" thru 42".

- Large diaphragm provides high torque capacity and minimizes release drag
- Oversized release springs ensure quick, positive mechanical plate separation



| SIZE | A<br>+0.000/-0.005<br>(+0.00/-0.13) | B                | C                |
|------|-------------------------------------|------------------|------------------|
|      | in (mm)                             | in (mm)          | in (mm)          |
| 114  | 18.370 (466.60)                     | 4 3/8 (111.5)    | 5 7/8 (149.2)    |
| 214  | 18.370 (466.60)                     | 5 3/4 (146.8)    | 7 3/16 (183.9)   |
| 314  | 18.370 (466.60)                     | 7 1/8 (181.4)    | 8 11/16 (220.7)  |
| 118  | 22.496 (571.40)                     | 4 3/4 (121.9)    | 6 1/4 (159.5)    |
| 218  | 22.496 (571.40)                     | 6 3/8 (163.3)    | 7 15/16 (202.9)  |
| 318  | 22.495 (571.37)                     | 8 1/16 (204.5)   | 9 9/16 (244.3)   |
| 124  | 28.870 (733.30)                     | 5 15/16 (151.6)  | 7 9/16 (192.3)   |
| 224  | 28.870 (733.30)                     | 7 5/8 (193.8)    | 9 3/16 (234.4)   |
| 324  | 28.870 (733.30)                     | 9 3/8 (238.1)    | 10 15/16 (278.9) |
| 230  | 34.745 (882.52)                     | 8 7/16 (215.4)   | 9 15/16 (252.7)  |
| 330  | 34.745 (882.52)                     | 10 3/8 (263.9)   | 11 13/16 (301.5) |
| 236  | 39.995 (1,015.87)                   | 10 1/4 (261.9)   | 10 15/16 (278.4) |
| 336  | 39.995 (1,015.87)                   | 12 11/16 (322.3) | 13 1/2 (343.9)   |
| 342  | 46.745 (1,187.32)                   | 13 1/2 (342.9)   | 16 1/4 (413.3)   |

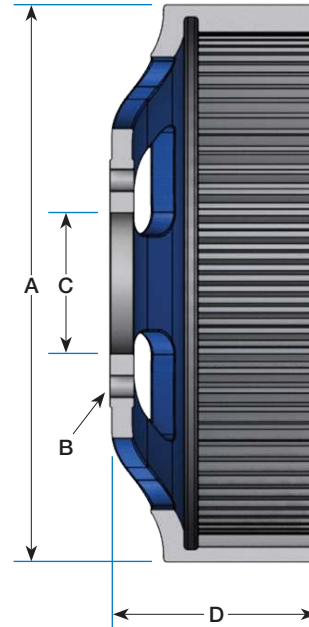
| Torque Rating @ 100 psi (7 bar) |                    | Maximum Speed | Maximum Slip Speed | Weight and Inertia |   |                  |   | Lining Area                        | Bore Range   |               |
|---------------------------------|--------------------|---------------|--------------------|--------------------|---|------------------|---|------------------------------------|--------------|---------------|
| Model                           | Static Torque      |               |                    | Total Weight       | Total Inertia                           | Ring & FD Weight | Ring & FD Inertia                       |                                    | Minimum      | Maximum       |
|                                 | lbf-in (N-m)       | r/min         | r/min              | lb (kg)            | lb-ft <sup>2</sup> (kg-m <sup>2</sup> ) | lb (kg)          | lb-ft <sup>2</sup> (kg-m <sup>2</sup> ) | in <sup>2</sup> (cm <sup>2</sup> ) | in (mm)      | in (mm)       |
| 114                             | 38,400 (4340)      | 2450          | 1640               | 191 (87)           | 47 (2.0)                                | 9.2 (4.2)        | 9.0 (0.38)                              | 170 (1080)                         | 2.00 (50.8)  | 3.50 (88.9)   |
| 214                             | 76,800 (8680)      | 2450          | 1640               | 229 (100)          | 54 (2.3)                                | 14 (6.2)         | 16 (0.68)                               | 340 (2170)                         | 2.00 (50.8)  | 3.50 (88.9)   |
| 314                             | 115,000 (13000)    | 2450          | 1640               | 284 (130)          | 67 (2.8)                                | 18 (8.2)         | 21 (0.88)                               | 500 (3250)                         | 2.00 (50.8)  | 3.50 (88.9)   |
| 118                             | 78,500 (8870)      | 2000          | 1270               | 309 (140)          | 120 (4.9)                               | 20 (9.1)         | 20 (0.84)                               | 270 (1760)                         | 2.94 (74.6)  | 4.55 (115.6)  |
| 218                             | 157,000 (17700)    | 2000          | 1270               | 400 (180)          | 130 (5.5)                               | 31 (14)          | 37 (1.5)                                | 540 (3490)                         | 2.94 (74.6)  | 4.55 (115.6)  |
| 318                             | 236,000 (26600)    | 2000          | 1270               | 508 (230)          | 190 (7.9)                               | 55 (25)          | 55 (2.3)                                | 810 (5230)                         | 2.94 (74.6)  | 4.55 (115.6)  |
| 124                             | 188,000 (21300)    | 1500          | 950                | 680 (310)          | 440 (18)                                | 96 (44)          | 96 (4.0)                                | 440 (2850)                         | 3.00 (76.2)  | 6.00 (142.4)  |
| 224                             | 377,000 (42600)    | 1500          | 950                | 820 (370)          | 500 (21)                                | 100 (47)         | 100 (4.3)                               | 880 (5700)                         | 3.00 (76.2)  | 6.00 (142.4)  |
| 324                             | 565,000 (63800)    | 1500          | 950                | 990 (450)          | 600 (25)                                | 150 (68)         | 140 (6.0)                               | 1,300 (8550)                       | 3.50 (88.9)  | 6.00 (142.4)  |
| 230                             | 731,000 (82600)    | 1300          | 760                | 1,430 (650)        | 1,400 (60)                              | 500 (230)        | 500 (21)                                | 1,500 (9600)                       | 3.75 (95.3)  | 7.00 (177.8)  |
| 330                             | 1,097,000 (123900) | 1300          | 760                | 1,810 (820)        | 1,900 (78)                              | 780 (350)        | 780 (33)                                | 2,200 (14400)                      | 3.75 (95.3)  | 7.00 (177.8)  |
| 236                             | 1,300,000 (146900) | 900           | 640                | 2,260 (1000)       | 2,900 (120)                             | 950 (430)        | 820 (35)                                | 2,300 (14900)                      | 4.50 (114.0) | 7.75 (196.9)  |
| 336                             | 1,940,000 (219200) | 900           | 640                | 2,810 (1300)       | 3,700 (160)                             | 1,300 (580)      | 320 (13)                                | 3,500 (22400)                      | 4.50 (114.3) | 7.75 (196.9)  |
| 342                             | 3,370,000 (380800) | 750           | 550                | 4,650 (2100)       | 8,500 (360)                             | 3,300 (1500)     | 3,400 (140)                             | 4,600 (29600)                      | 8.25 (209.6) | 10.00 (254.0) |

Consult WPT Application Engineering for application assistance and applicable service factors.  
Dynamic torque is 75% of static torque.

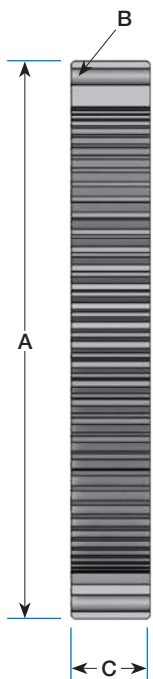
# PO Drive Rings & Spider Flanges

## Spider Flange Dimensions

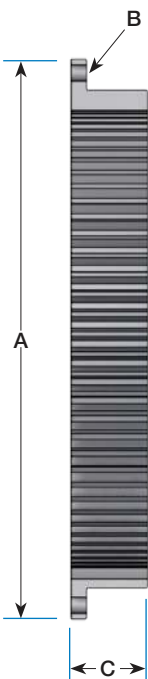
| Size | A                 |                  | B                            |                        | C<br>+0.002/-0.000<br>(+0.05/-0.00) | D            | No. of<br>Teeth | Weight<br>lb<br>(kg) |     |
|------|-------------------|------------------|------------------------------|------------------------|-------------------------------------|--------------|-----------------|----------------------|-----|
|      | in<br>(mm)        | in<br>(mm)       | Hole<br>Circle<br>in<br>(mm) | Diameter<br>in<br>(mm) |                                     |              |                 |                      | Qty |
|      |                   |                  |                              |                        |                                     |              |                 |                      |     |
| 114  |                   |                  |                              |                        |                                     | 3<br>(79.4)  | 59              | 27<br>(12)           |     |
| 214  | 16<br>(406.4)     | 8.00<br>(203.2)  | 1/2<br>(12.7)                | 8                      | 6.500<br>(165.10)                   | 5<br>(114.3) |                 | 37<br>(17)           |     |
| 314  |                   |                  |                              |                        |                                     | 6<br>(152.4) |                 | 49<br>(22)           |     |
| 118  |                   |                  |                              |                        |                                     | 3<br>(82.6)  | 75              | 57<br>(26)           |     |
| 218  | 20 1/4<br>(514.4) | 8.00<br>(203.2)  | 1/2<br>(12.7)                | 8                      | 6.500<br>(165.10)                   | 5<br>(125.4) |                 | 76<br>(35)           |     |
| 318  |                   |                  |                              |                        |                                     | 6<br>(160.3) |                 | 89<br>(40)           |     |
| 124  |                   |                  |                              |                        |                                     | 5<br>(114.3) | 99              | 120<br>(55)          |     |
| 224  | 26 1/4<br>(666.8) | 10.00<br>(254.0) | 5/8<br>(15.9)                | 8                      | 8.000<br>(203.20)                   | 6<br>(161.9) |                 | 150<br>(70)          |     |
| 324  |                   |                  |                              |                        |                                     | 8<br>(211.2) |                 | 180<br>(82)          |     |



Type A



Type B



Type C



## Drive Ring Dimensions

| Size | Ring<br>Type | A<br>+0.000/-0.005<br>(+0.00/-0.13) |                   | B                            |                        | C<br>in<br>(mm)  | No. of<br>Teeth | Weight<br>lb<br>(kg) |     |
|------|--------------|-------------------------------------|-------------------|------------------------------|------------------------|------------------|-----------------|----------------------|-----|
|      |              | in<br>(mm)                          | in<br>(mm)        | Hole<br>Circle<br>in<br>(mm) | Diameter<br>in<br>(mm) |                  |                 |                      | Qty |
|      |              |                                     |                   |                              |                        |                  |                 |                      |     |
| 114  | A            |                                     |                   |                              |                        | 1 1/8<br>(28.6)  | 59              | 17<br>(8)            |     |
| 214  | A            | 18.375<br>(466.73)                  | 17.25<br>(438.2)  | 17/32<br>(13.5)              | 8                      | 2 3/8<br>(60.3)  |                 | 26<br>(12)           |     |
| 314  | A            |                                     |                   |                              |                        | 4<br>(101.6)     |                 | 43<br>(20)           |     |
| 118  | B            |                                     |                   |                              |                        | 1 1/8<br>(28.6)  | 75              | 24<br>(11)           |     |
| 218  | B            | 22.500<br>(571.50)                  | 21.38<br>(542.9)  | 21/32<br>(16.7)              | 6                      | 3 1/16<br>(77.8) |                 | 43<br>(20)           |     |
| 318  | B            |                                     |                   |                              |                        | 4 1/4<br>(108.0) |                 | 55<br>(25)           |     |
| 124  | A            |                                     |                   |                              |                        | 1 1/2<br>(38.1)  | 99              | 66<br>(30)           |     |
| 224  | B            | 28.875<br>(733.43)                  | 27.25<br>(692.2)  | 25/32<br>(19.8)              | 12                     | 3 1/2<br>(88.9)  |                 | 64<br>(29)           |     |
| 324  | B            |                                     |                   |                              |                        | 5 1/2<br>(139.7) |                 | 88<br>(40)           |     |
| 230  | C            | 32.000<br>(812.80)                  | 33.00<br>(838.2)  | 25/32<br>(19.8)              | 12                     | 4 3/4<br>(120.7) | 123             | 230<br>(105)         |     |
| 330  | C            |                                     |                   |                              |                        | 7<br>(177.8)     |                 | 360<br>(165)         |     |
| 236  | C            | 37.500<br>(952.50)                  | 38.50<br>(977.9)  | 25/32<br>(19.8)              | 12                     | 4 3/4<br>(120.7) | 147             | 250<br>(112)         |     |
| 336  | C            |                                     |                   |                              |                        | 7 1/2<br>(190.5) |                 | 380<br>(172)         |     |
| 342  | C            | 46.000<br>(1168.40)                 | 45.00<br>(1143.0) | 25/32<br>(19.8)              | 24                     | 7 1/2<br>(191.5) | 171             | 530<br>(239)         |     |

# Power Grip Clutches



The Power Grip Clutch is designed to accommodate in-line and shaft-to-shaft power transmission applications with large inertia loads. Our air-tube design allows seamless, controlled engagement and disengagement with minimal air volume. Power Grip clutches allow for quick response, space-saving footprints, minimal maintenance requirements and are available in sizes ranging from 8" to 60".

- Extended Hub Teeth for serviceability
- Wave Springs as standard release spring
- Optional standard or quick change driving adapters
- Optional split airtubes and friction discs for easier replacement and minimal downtime
- Available with pneumatic or hydraulic actuation



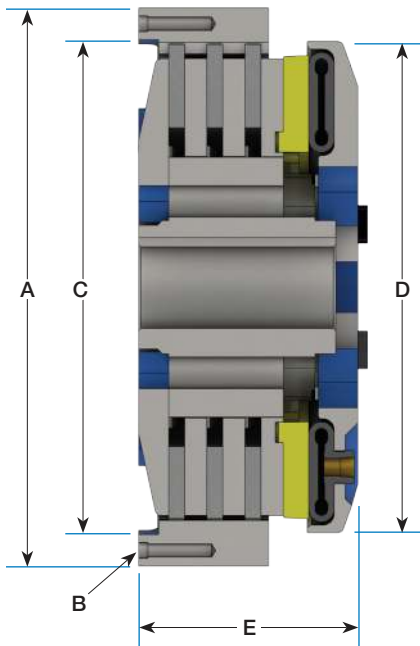
| Torque Rating @ 100 psi (7 bar) |                      | Maximum Speed | Maximum Slip Speed | Weight and Inertia |               |   |                   | Lining Area                             | Bore Range                         |               |
|---------------------------------|----------------------|---------------|--------------------|--------------------|---------------|---|-------------------|---|------------------------------------|---------------|
| Model                           | Static Torque        |               |                    | Total Weight       | Total Inertia | Ring & FD Weight                        | Ring & FD Inertia |   | Minimum                            | Maximum       |
|                                 |                      | lbf-in (N-m)  | r/min              | r/min              | lb (kg)       | lb-ft <sup>2</sup> (kg-m <sup>2</sup> ) | lb (kg)           | lb-ft <sup>2</sup> (kg-m <sup>2</sup> ) | in <sup>2</sup> (cm <sup>2</sup> ) | in (mm)       |
| 108                             | 7,560 (854)          | 3600          | 2860               | 30 (14)            | 2.4 (0.10)    | 8.3 (3.7)                               | 1.2 (0.05)        | 55 (355)                                | 0.94 (23.8)                        | 1.94 (49.2)   |
| 208                             | 14,700 (1660)        | 3600          | 2860               | 50 (23)            | 4.3 (0.18)    | 17 (7.5)                                | 2.3 (0.10)        | 110 (711)                               | 0.94 (23.8)                        | 1.94 (49.2)   |
| 308                             | 21,300 (2410)        | 3600          | 2860               | 67 (30)            | 6.0 (0.25)    | 25 (11)                                 | 3.5 (0.15)        | 170 (1070)                              | 1.13 (28.6)                        | 1.94 (49.2)   |
| 111                             | 17,000 (1920)        | 2650          | 2080               | 55 (25)            | 9.2 (0.39)    | 19 (9.0)                                | 5.4 (0.23)        | 110 (730)                               | 1.25 (31.8)                        | 3.00 (76.2)   |
| 211                             | 33,300 (3760)        | 2650          | 2080               | 96 (44)            | 16 (0.69)     | 37 (17)                                 | 10 (0.44)         | 230 (1460)                              | 1.25 (31.8)                        | 3.00 (76.2)   |
| 311                             | 48,700 (5500)        | 2650          | 2080               | 130 (60)           | 23 (0.97)     | 52 (24)                                 | 15 (0.65)         | 340 (2190)                              | 1.25 (31.8)                        | 3.00 (76.2)   |
| 114H                            | 35,600 (4020)        | 2180          | 1640               | 160 (73)           | 41 (1.7)      | 38 (17)                                 | 17 (0.72)         | 170 (1070)                              | 2.13 (54.0)                        | 3.25 (82.6)   |
| 214H                            | 69,700 (7880)        | 2180          | 1640               | 210 (96)           | 57 (2.4)      | 57 (26)                                 | 25 (1.0)          | 330 (2140)                              | 2.13 (54.0)                        | 3.25 (82.6)   |
| 314H                            | 102,000 (11500)      | 2180          | 1640               | 290 (130)          | 80 (3.4)      | 97 (44)                                 | 42 (1.8)          | 500 (3220)                              | 2.13 (54.0)                        | 3.25 (82.6)   |
| 216                             | 79,700 (9010)        | 1900          | 1430               | 300 (130)          | 88 (3.7)      | 79 (36)                                 | 42 (1.8)          | 460 (2940)                              | 2.13 (54.0)                        | 3.41 (86.6)   |
| 316                             | 117,000 (13200)      | 1900          | 1430               | 380 (170)          | 120 (4.9)     | 120 (53)                                | 61 (2.6)          | 680 (4410)                              | 2.13 (54.0)                        | 3.41 (86.6)   |
| 218                             | 130,000 (14700)      | 1750          | 1270               | 400 (180)          | 140 (6.0)     | 95 (43)                                 | 62 (2.6)          | 520 (3340)                              | 2.38 (60.3)                        | 3.88 (98.4)   |
| 318                             | 191,000 (21600)      | 1750          | 1270               | 500 (230)          | 190 (8.0)     | 140 (66)                                | 93 (3.9)          | 780 (5010)                              | 2.38 (60.3)                        | 3.88 (98.4)   |
| 118H                            | 82,000 (9270)        | 1750          | 1270               | 290 (130)          | 100 (4.2)     | 44 (20)                                 | 28 (1.2)          | 260 (1670)                              | 2.38 (60.3)                        | 3.88 (98.4)   |
| 218H                            | 161,000 (18200)      | 1750          | 1270               | 410 (190)          | 150 (6.4)     | 95 (43)                                 | 62 (2.6)          | 520 (3340)                              | 2.38 (60.3)                        | 3.88 (98.4)   |
| 318H                            | 238,000 (26900)      | 1750          | 1270               | 530 (240)          | 200 (8.4)     | 140 (66)                                | 93 (3.9)          | 780 (5010)                              | 2.38 (60.3)                        | 3.88 (98.4)   |
| 221                             | 189,000 (21400)      | 1530          | 1090               | 570 (260)          | 280 (12)      | 140 (63)                                | 120 (5.2)         | 720 (4640)                              | 2.75 (69.9)                        | 4.75 (120.7)  |
| 321                             | 279,000 (31500)      | 1530          | 1090               | 740 (340)          | 380 (16)      | 210 (95)                                | 190 (7.8)         | 1,100 (6960)                            | 2.75 (69.9)                        | 4.75 (120.7)  |
| 124H                            | 167,000 (18900)      | 1350          | 950                | 590 (270)          | 370 (16)      | 120 (52)                                | 130 (5.6)         | 570 (3710)                              | 2.75 (69.9)                        | 4.75 (120.7)  |
| 224H                            | 330,000 (37300)      | 1350          | 950                | 800 (360)          | 510 (22)      | 190 (86)                                | 210 (8.8)         | 1,100 (7410)                            | 2.75 (69.9)                        | 4.75 (120.7)  |
| 324H                            | 488,000 (55100)      | 1350          | 950                | 990 (450)          | 620 (26)      | 250 (110)                               | 260 (11)          | 1,700 (11100)                           | 2.75 (69.9)                        | 4.75 (120.7)  |
| 124SHD                          | 207,000 (23400)      | 1350          | 950                | 610 (280)          | 380 (16)      | 120 (52)                                | 130 (5.6)         | 570 (3710)                              | 2.75 (69.9)                        | 4.75 (120.7)  |
| 224SHD                          | 413,000 (46700)      | 1350          | 950                | 820 (370)          | 520 (22)      | 190 (86)                                | 210 (8.8)         | 1,100 (7410)                            | 2.75 (69.9)                        | 4.75 (120.7)  |
| 324SHD                          | 620,000 (70100)      | 1350          | 950                | 1,000 (460)        | 630 (27)      | 250 (110)                               | 260 (11)          | 1,700 (11100)                           | 2.75 (69.9)                        | 4.75 (120.7)  |
| 227                             | 370,000 (41800)      | 1200          | 850                | 930 (420)          | 700 (29)      | 190 (86)                                | 250 (11)          | 1,500 (9430)                            | 3.50 (88.9)                        | 7.00 (177.8)  |
| 327                             | 549,000 (62000)      | 1200          | 850                | 1,200 (560)        | 950 (40)      | 300 (140)                               | 400 (17)          | 2,200 (14100)                           | 3.50 (88.9)                        | 7.00 (177.8)  |
| 230H                            | 648,000 (73200)      | 1100          | 760                | 1,500 (670)        | 1,300 (56)    | 290 (130)                               | 440 (19)          | 1,600 (10500)                           | 3.88 (98.5)                        | 7.00 (177.8)  |
| 330H                            | 954,000 (108000)     | 1100          | 760                | 1,900 (850)        | 1,700 (72)    | 430 (190)                               | 650 (27)          | 2,400 (15800)                           | 3.88 (98.5)                        | 7.00 (177.8)  |
| 236                             | 1,010,000 (114000)   | 900           | 640                | 2,100 (970)        | 3,000 (130)   | 430 (190)                               | 960 (40)          | 2,200 (14500)                           | 5.00 (127.0)                       | 9.00 (228.6)  |
| 336                             | 1,490,000 (168000)   | 900           | 640                | 2,900 (1300)       | 3,300 (140)   | 640 (290)                               | 980 (41)          | 3,400 (21700)                           | 5.00 (127.0)                       | 9.00 (228.6)  |
| 242                             | 1,540,000 (174000)   | 750           | 550                | 3,100 (1400)       | 5,500 (230)   | 680 (310)                               | 2,200 (94)        | 2,800 (18100)                           | 7.00 (177.8)                       | 11.00 (279.4) |
| 342                             | 2,290,000 (259000)   | 750           | 550                | 4,100 (1800)       | 7,500 (320)   | 1,100 (480)                             | 3,500 (150)       | 4,200 (27200)                           | 7.00 (177.8)                       | 11.00 (279.4) |
| 248                             | 2,750,000 (311000)   | 650           | 480                | 4,700 (2100)       | 11,000 (450)  | 800 (360)                               | 3,400 (140)       | 4,000 (25900)                           | 8.00 (203.2)                       | 12.00 (304.8) |
| 348                             | 4,100,000 (463000)   | 650           | 480                | 5,800 (2600)       | 14,000 (570)  | 1,100 (520)                             | 4,800 (200)       | 6,000 (38900)                           | 8.00 (203.2)                       | 12.00 (304.8) |
| 260                             | 5,590,000 (632000)   | 525           | 380                | 7,500 (3400)       | 23,000 (960)  | 1,500 (670)                             | 8,500 (360)       | 7,200 (46700)                           | 11.00 (279.4)                      | 15.00 (381.0) |
| 360                             | 8,320,000 (940000)   | 525           | 380                | 9,400 (4300)       | 31,000 (1300) | 2,200 (1000)                            | 13,000 (550)      | 10,900 (70000)                          | 11.00 (279.4)                      | 15.00 (381.0) |
| 460                             | 11,100,000 (1250000) | 525           | 380                | 12,000 (5300)      | 40,000 (1700) | 3,100 (1400)                            | 18,000 (750)      | 14,500 (93400)                          | 11.00 (279.4)                      | 15.00 (381.0) |

Consult WPT Application Engineering for application assistance and applicable service factors.  
Larger bore sizes may be accommodated, consult WPT Application Engineering.  
Dynamic torque is 75% of static torque.

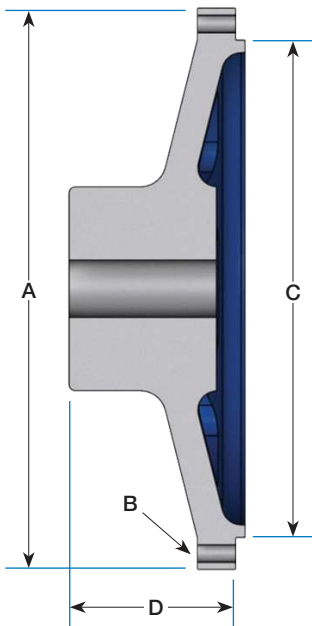
# Power Grip Clutches



| Size   | A               | B              |             |          | C                 |                   | D               | E       |
|--------|-----------------|----------------|-------------|----------|-------------------|-------------------|-----------------|---------|
|        |                 | Hole Circle    | Thread Size | Quantity | +0.003/<br>-0.000 | (+0.08/<br>-0.00) |                 |         |
|        | in (mm)         | in (mm)        | in          |          | in (mm)           |                   | in (mm)         | in (mm) |
| 108    | 10 3/8 (263.5)  | 9.63 (244.5)   | 1/2-13      | 6        | 8.872 (225.35)    | 9 5/8 (244.5)     | 3 7/8 (98.43)   |         |
| 208    | 10 3/8 (263.5)  | 9.63 (244.5)   | 1/2-13      | 6        | 8.872 (225.35)    | 9 5/8 (244.5)     | 5 1/4 (133.4)   |         |
| 308    | 10 3/8 (263.5)  | 9.63 (244.5)   | 1/2-13      | 6        | 8.872 (225.35)    | 9 5/8 (244.5)     | 6 5/8 (168.3)   |         |
| 111    | 14 3/8 (365.1)  | 13.38 (339.7)  | 5/8-11      | 8        | 12.375 (314.33)   | 11 15/16 (303.2)  | 4 1/8 (104.8)   |         |
| 211    | 14 3/8 (365.1)  | 13.38 (339.7)  | 5/8-11      | 8        | 12.375 (314.33)   | 11 15/16 (303.2)  | 5 3/8 (136.5)   |         |
| 311    | 14 3/8 (365.1)  | 13.38 (339.7)  | 5/8-11      | 8        | 12.375 (314.33)   | 11 15/16 (303.2)  | 6 11/16 (169.9) |         |
| 114H   | 17 1/2 (444.5)  | 16.25 (412.8)  | 5/8-11      | 6        | 15.125 (384.18)   | 16 5/16 (414.3)   | 5 1/8 (130.2)   |         |
| 214H   | 17 1/2 (444.5)  | 16.25 (412.8)  | 5/8-11      | 6        | 15.125 (384.18)   | 16 5/16 (414.3)   | 6 5/8 (168.3)   |         |
| 314H   | 17 1/2 (444.5)  | 16.25 (412.8)  | 5/8-11      | 6        | 15.125 (384.18)   | 16 5/16 (414.3)   | 8 (203.2)       |         |
| 216    | 20 (508.0)      | 18.75 (476.3)  | 5/8-11      | 6        | 17.500 (444.50)   | 16 1/4 (413.9)    | 6 9/16 (166.7)  |         |
| 316    | 20 (508.0)      | 18.75 (476.3)  | 5/8-11      | 6        | 17.500 (444.50)   | 16 1/4 (413.9)    | 8 (203.2)       |         |
| 218    | 22 (558.8)      | 20.75 (527.1)  | 5/8-11      | 6        | 19.500 (495.30)   | 19 3/8 (492.1)    | 7 1/4 (184.2)   |         |
| 318    | 22 (558.8)      | 20.75 (527.1)  | 5/8-11      | 6        | 19.500 (495.30)   | 19 3/8 (492.1)    | 8 7/8 (225.4)   |         |
| 118H   | 22 (558.8)      | 20.75 (527.1)  | 5/8-11      | 6        | 19.500 (495.30)   | 21 5/16 (541.3)   | 5 11/16 (144.5) |         |
| 218H   | 22 (558.8)      | 20.75 (527.1)  | 5/8-11      | 6        | 19.500 (495.30)   | 21 5/16 (541.3)   | 7 1/4 (184.2)   |         |
| 318H   | 22 (558.8)      | 20.75 (527.1)  | 5/8-11      | 6        | 19.500 (495.30)   | 21 5/16 (541.3)   | 8 3/4 (222.3)   |         |
| 221    | 25 (635.0)      | 23.75 (603.3)  | 5/8-11      | 6        | 22.500 (571.50)   | 21 5/16 (541.3)   | 8 3/8 (212.7)   |         |
| 321    | 25 (635.0)      | 23.75 (603.3)  | 5/8-11      | 6        | 22.500 (571.50)   | 21 5/16 (541.3)   | 10 1/8 (257.2)  |         |
| 124H   | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 6 3/4 (171.5)   |         |
| 224H   | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 8 1/2 (215.9)   |         |
| 324H   | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 10 1/2 (266.7)  |         |
| 124SHD | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 6 7/8 (174.6)   |         |
| 224SHD | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 8 1/2 (215.9)   |         |
| 324SHD | 28 (711.2)      | 26.75 (679.5)  | 5/8-11      | 6        | 25.500 (647.70)   | 27 (685.8)        | 10 1/2 (266.7)  |         |
| 227    | 31 (787.4)      | 29.75 (755.7)  | 5/8-11      | 12       | 28.500 (647.70)   | 27 (685.8)        | 8 3/4 (222.3)   |         |
| 327    | 31 (787.4)      | 29.75 (755.7)  | 5/8-11      | 12       | 28.500 (647.70)   | 27 (685.8)        | 10 3/4 (273.1)  |         |
| 230H   | 34 (863.6)      | 32.75 (831.9)  | 5/8-11      | 12       | 31.500 (800.10)   | 32 3/8 (822.3)    | 10 3/16 (258.8) |         |
| 330H   | 34 (863.6)      | 32.75 (831.9)  | 5/8-11      | 12       | 31.500 (800.10)   | 32 3/8 (822.3)    | 12 3/4 (323.9)  |         |
| 236    | 41 (1041.4)     | 39.75 (1009.7) | 5/8-11      | 16       | 38.500 (977.90)   | 38 1/4 (971.6)    | 11 7/8 (301.6)  |         |
| 336    | 41 (1041.4)     | 39.75 (1009.7) | 5/8-11      | 16       | 38.500 (977.90)   | 38 1/4 (971.6)    | 14 3/4 (374.7)  |         |
| 242    | 49 1/4 (1251.0) | 47.25 (1200.2) | 1-8         | 12       | 45.000 (1143.00)  | 44 1/8 (1120.8)   | 11 3/8 (288.9)  |         |
| 342    | 49 1/4 (1251.0) | 47.25 (1200.2) | 1-8         | 12       | 45.000 (1143.00)  | 44 1/8 (1120.8)   | 14 1/8 (358.8)  |         |
| 248    | 56 (1422.4)     | 54.00 (1371.6) | 1-8         | 12       | 52.000 (1320.80)  | 52 3/8 (1330.3)   | 13 (330.2)      |         |
| 348    | 56 (1422.4)     | 54.00 (1371.6) | 1-8         | 12       | 52.000 (1320.80)  | 52 3/8 (1330.3)   | 15 3/4 (400.1)  |         |
| 260    | 66 3/4 (1695.5) | 64.75 (1644.7) | 1-8         | 24       | 62.750 (1593.85)  | 61 1/2 (1562.1)   | 16 1/4 (412.8)  |         |
| 360    | 66 3/4 (1695.5) | 64.75 (1644.7) | 1-8         | 24       | 62.750 (1593.85)  | 61 1/2 (1562.1)   | 20 (508.0)      |         |
| 460    | 66 3/4 (1695.5) | 64.75 (1644.7) | 1-8         | 24       | 62.750 (1593.85)  | 61 1/2 (1562.1)   | 23 1/2 (596.9)  |         |

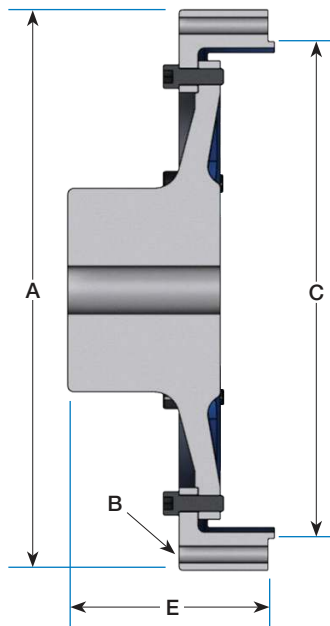


# Power Grip Driving Adapters



## Standard Driving Adapters

Our standard adapter enables the clutch to work in a shaft-to-shaft or coupling package.



## Quick Change Driving Adapters

This quick change arrangement starts with a driving elbow flange positioned between the Power Grip drive ring and Quick Change Driving Adapter. It allows service on the clutch (wear parts) without removing or disturbing either shaft.

| Size | A               | B              |          |          | C                 |                   | D               | E             | Bore Range    |              |
|------|-----------------|----------------|----------|----------|-------------------|-------------------|-----------------|---------------|---------------|--------------|
|      |                 | Hole Circle    | Diameter | Quantity | +0.003/<br>-0.000 | (+0.08/<br>-0.00) |                 |               | Standard      | Quick Change |
|      | in (mm)         | in (mm)        | in       |          | in (mm)           | in (mm)           | in (mm)         | in (mm)       | in (mm)       | in (mm)      |
| 8"   | 10 3/8 (263.5)  | 9.63 (244.5)   | 1/2      | 6        | 8.872 (225.35)    | 3 (76.2)          | 3 (76.2)        | 0.94 (23.8)   | 2.33 (59.2)   |              |
| 11"  | 14 3/8 (365.1)  | 13.38 (339.7)  | 5/8      | 8        | 12.374 (314.30)   | 3 1/2 (88.9)      | 3 1/4 (82.6)    | 1.38 (34.9)   | 2.50 (63.5)   |              |
| 14"  | 17 1/2 (444.5)  | 16.25 (412.8)  | 5/8      | 6        | 15.124 (384.15)   | 5 1/8 (130.2)     | 5 3/8 (136.5)   | 1.63 (41.3)   | 4.17 (105.9)  |              |
| 16"  | 20 (508.0)      | 18.75 (476.3)  | 5/8      | 6        | 17.498 (444.45)   | 5 7/8 (149.2)     | 7 7/16 (188.9)  | 1.88 (47.6)   | 5.34 (135.5)  |              |
| 18"  | 22 (558.8)      | 20.75 (527.1)  | 5/8      | 6        | 19.508 (495.50)   | 6 1/2 (165.1)     | 8 5/8 (219.1)   | 1.88 (47.6)   | 5.34 (135.5)  |              |
| 21"  | 25 (635.0)      | 23.75 (603.3)  | 5/8      | 6        | 22.495 (571.37)   | 6 1/2 (165.1)     | 10 1/4 (260.4)  | 2.50 (63.5)   | 6.37 (161.8)  |              |
| 24"  | 28 (711.2)      | 26.75 (679.5)  | 5/8      | 6        | 25.468 (646.89)   | 8 1/8 (206.4)     | 11 (279.4)      | 3.00 (76.2)   | 6.67 (169.4)  |              |
| 27"  | 31 (787.4)      | 29.75 (755.7)  | 5/8      | 12       | 28.498 (723.85)   | 8 1/2 (215.9)     | 8 3/16 (208.0)  | 3.00 (76.2)   | 7.71 (195.7)  |              |
| 30"  | 34 (863.6)      | 32.75 (831.9)  | 5/8      | 12       | 31.498 (800.05)   | 9 (228.6)         | 12 1/4 (311.2)  | 3.50 (88.9)   | 9.34 (237.2)  |              |
| 36"  | 41 (1041.4)     | 39.75 (1009.7) | 5/8      | 16       | 38.498 (977.85)   | 10 1/4 (260.4)    | 12 (304.8)      | 6.00 (152.4)  | 10.00 (254.0) |              |
| 42"  | 49 1/4 (1251.0) | 47.25 (1200.2) | 1 1/16   | 12       | 44.998 (1142.95)  | 10 3/4 (273.1)    | 13 3/16 (335.0) | 7.00 (177.8)  | 12.00 (304.8) |              |
| 48"  | 56 (1422.4)     | 54.00 (1371.6) | 1 1/16   | 12       | 51.998 (1320.75)  | - -               | 16 1/4 (412.8)  | 7.94 (201.6)  | 14.00 (355.6) |              |
| 60"  | 66 3/4 (1695.5) | 64.75 (1644.7) | 1 1/16   | 24       | 62.748 (1593.80)  | - -               | 26 1/4 (666.8)  | 10.00 (254.0) | 16.00 (406.4) |              |

Larger bore sizes may be accommodated, consult WPT Application Engineering.

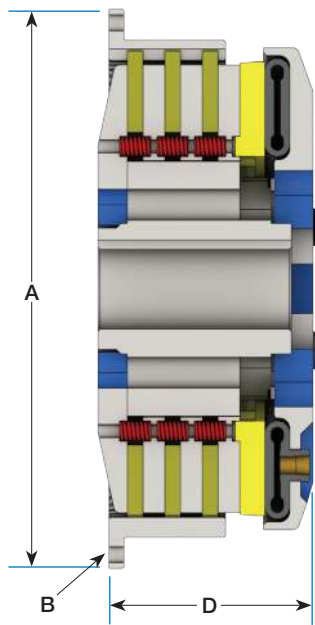




# Power Grip High Speed Clutches

Power Grip High Speed Clutches are designed to withstand severe applications mounted to internal combustion engines. The drive rings will fit standard SAE industrial flywheels. Heavy duty gear teeth friction discs are designed to withstand high shock loads. WPT's Power Grip High Speed clutches are well suited for bell housing gear box clutch applications.

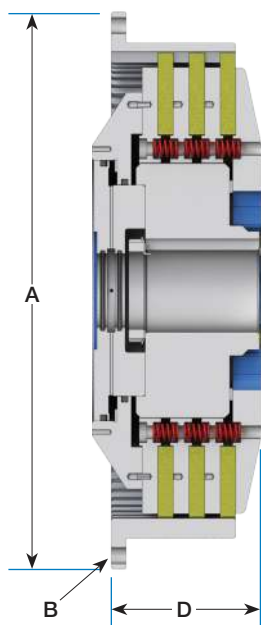
## Pneumatic Clutches



| Model | Maximum Input Torque* | Maximum Speed | Lining Area                        |
|-------|-----------------------|---------------|------------------------------------|
|       | lbf-ft (N·m)          | r/min         | in <sup>2</sup> (cm <sup>2</sup> ) |
| 111   | 650 (881)             | 2500          | 110 (730)                          |
| 211   | 1300 (1760)           | 2500          | 230 (1460)                         |
| 311   | 1900 (2580)           | 2500          | 340 (2190)                         |
| 114H  | 1200 (1630)           | 2300          | 160 (1020)                         |
| 214H  | 2500 (3390)           | 2300          | 320 (2050)                         |
| 314H  | 3800 (5150)           | 2300          | 480 (3070)                         |
| 318   | 7100 (9630)           | 2100          | 780 (5050)                         |
| 321   | 13500 (18300)         | 1800          | 1100 (6960)                        |

\*Pneumatic actuation at 100 PSI.  
Hydraulic actuation at 500 PSI.

## Hydraulic Clutches



| SIZE | Ring Type* | A               |               | B            |          |                 | C              | D       |
|------|------------|-----------------|---------------|--------------|----------|-----------------|----------------|---------|
|      |            | +0.003/-0.005   | (+0.00/-0.13) | Hole Circle  | Diameter | Qty             |                |         |
|      |            | in (mm)         | in (mm)       | in (mm)      | in (mm)  |                 | in (mm)        | in (mm) |
| 111  | B          |                 |               |              |          | 4 1/8 (104.8)   | 3 1/2 (89.2)   |         |
| 211  |            | 13.875 (352.43) | 13.13 (333.4) | 13/32 (10.3) | 8        | 5 3/8 (136.5)   | 4 1/2 (114.3)  |         |
| 311  |            |                 |               |              |          | 6 11/16 (169.9) | 5 1/2 (140.2)  |         |
| 114H | A          |                 |               |              |          | 5 1/8 (130.2)   | - -            |         |
| 214H |            | 18.375 (466.73) | 17.25 (438.2) | 17/32 (13.5) | 8        | 6 5/8 (168.3)   | 4 5/8 (118.9)  |         |
| 314H |            |                 |               |              |          | 8 (203.2)       | 5 7/16 (138.4) |         |
| 318  |            | 22.498 (571.45) | 21.38 (542.9) | 21/32 (16.7) | 6        | 8 3/4 (222.3)   | 6 (153.2)      |         |
| 321  |            | 26.500 (673.10) | 33.50 (850.9) | 21/32 (16.7) | 12       | 10 1/8 (257.2)  | - -            |         |

Consult WPT Application Engineering for application assistance and applicable service factors.

Larger bore sizes may be accommodated, consult WPT Application Engineering.

Dynamic torque is 75% of static torque.

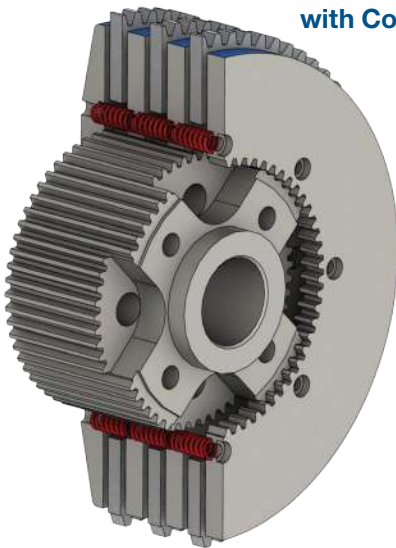
\*For Drive Ring Dimensions see chart on page 3



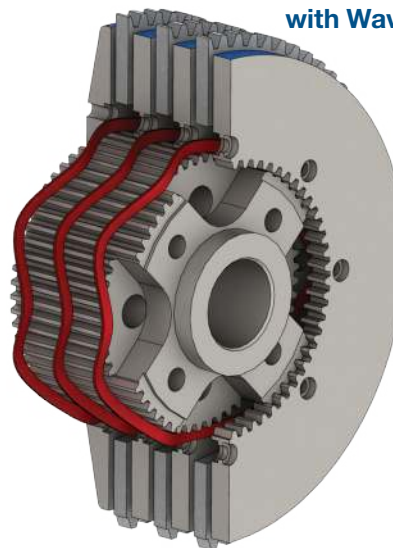
### Extended Tooth Hub

A major innovation for the Power Grip Clutch is WPT's extended tooth hub which simplifies assembly of the clutch while mounted in a horizontal position. The extended teeth allow for all center/floating plates to remain at rest on the hub teeth with the release springs in a relaxed state. No special tools are required to retain all parts on the hub while the airtube holding plate and bolts are installed.

**Power Grip Clutch with Coil Springs**



**Power Grip Clutch with Wave Springs**



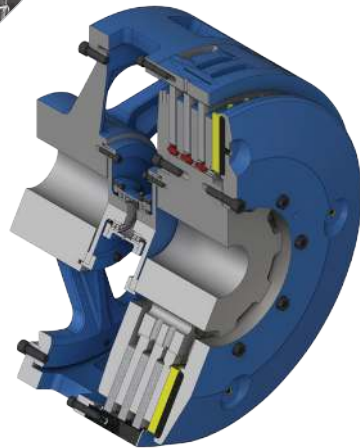
### Wave Release Springs

Another service innovation for the Power Grip Clutch is the use of wave springs. Only one wave spring is required per plate in contrast to aligning several coil springs. The wave spring allows for ease of assembly while the clutch is mounted in a horizontal position. It eliminates the use of special tools to retain the coil springs.

### Speed Ratings of Wave Springs

| Clutch Size       | Maximum Speed |
|-------------------|---------------|
|                   | r/min         |
| 14" / 14H         | 1140          |
| 16"               | 1040          |
| 18" / 18H         | 940           |
| 21"               | 890           |
| 24" / 24H / 24SHD | 750           |
| 27"               | 720           |
| 30" / 30H         | 690           |
| 36"               | 480           |

# Power Grip Grinding Mill Clutches



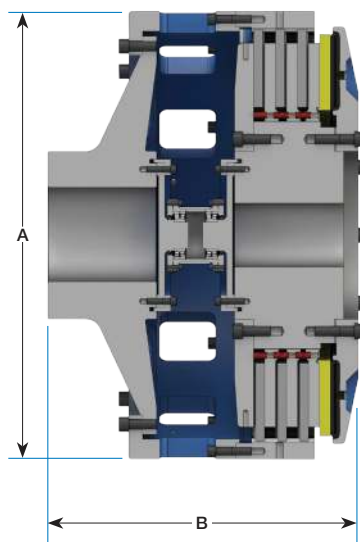
## Grinding Mill Clutches

Power Grip Grinding Mill Clutches are the best heavy duty option for ball, pebble, rod, AG and SAG grinding mill applications. High inertia loads are brought on line quickly and smoothly where controlled starts are required. WPT's Power Grip clutches are designed to use a minimal amount of air volume.

- Reduces power demand for high inertia load starts
- Disc design has more torque capacity and lining area than drum style products
- Suitable for jogging and inching

### Specifications with Axial Locking

| Torque Rating @ 100 psi (7 bar) |                      | Maximum Speed | Maximum Slip Speed | Weight and Inertia |               |  |                                | Lining Area                            | Bore Range                         |               |
|---------------------------------|----------------------|---------------|--------------------|--------------------|---------------|--|--------------------------------|--|------------------------------------|---------------|
| Model                           | Static Torque        |               |                    | Total Weight       | Total Inertia | Ring, FD, & QC Adapter Weight          | Ring, FD, & QC Adapter Inertia |  | Clutch                             | Adapter       |
|                                 |                      | lbf-in (N-m)  | r/min              | r/min              | lb (kg)       | lb-ft <sup>2</sup> (kgm <sup>2</sup> ) | lb (kg)                        | lb-ft <sup>2</sup> (kgm <sup>2</sup> ) | in <sup>2</sup> (cm <sup>2</sup> ) | in (mm)       |
| 336                             | 1,490,000 (168000)   | 900           | 640                | 3,080 (1400)       | 3,650 (153)   | 616 (279)                              | 932 (39)                       | 4,100 (26500)                          | 9.00 (228.6)                       | 9.75 (247.7)  |
| 242                             | 1,540,000 (174000)   | 750           | 550                | 5,400 (2450)       | 10,600 (445)  | 2,820 (1280)                           | 6,980 (293)                    | 3,200 (20600)                          | 11.00 (279.4)                      | 12.56 (319.1) |
| 342                             | 2,290,000 (259000)   | 750           | 550                | 6,340 (2880)       | 13,000 (546)  | 3,620 (1640)                           | 9,370 (394)                    | 4,800 (30900)                          |                                    |               |
| 248                             | 2,750,000 (311000)   | 650           | 480                | 8,200 (3720)       | 20,400 (857)  | 4,000 (1810)                           | 12,700 (533)                   | 4,800 (30900)                          | 12.00 (304.8)                      | 14.00 (355.6) |
| 348                             | 4,100,000 (463000)   | 650           | 480                | 9,340 (4240)       | 23,100 (970)  | 4,220 (1910)                           | 13,700 (575)                   | 7,200 (46400)                          |                                    |               |
| 260                             | 8,320,000 (632000)   | 525           | 380                | 13,400 (6070)      | 45,500 (1910) | 7,290 (3310)                           | 19,000 (799)                   | 7,800 (50300)                          | 15.00 (381.0)                      | 16.75 (425.5) |
| 360                             | 8,320,000 (940000)   | 525           | 380                | 14,900 (6760)      | 53,600 (2250) | 6,400 (2900)                           | 31,300 (1310)                  | 11,700 (75500)                         |                                    |               |
| 460                             | 11,100,000 (1250000) | 525           | 380                | 16,900 (7670)      | 61,500 (2580) | 7,250 (3290)                           | 35,500 (1490)                  | 15,600 (101000)                        |                                    |               |



### Dimensions with Axial Locking

| Size | A      |          | B        |          |
|------|--------|----------|----------|----------|
|      | in     | (mm)     | in       | (mm)     |
| 336  |        |          | 39 3/4   | (1009.9) |
| 436  | 41     | (1041.4) | 47 13/16 | (1214.9) |
| 242  |        |          | 30 1/8   | (765.6)  |
| 342  | 49 1/4 | (1251.0) | 34 3/8   | (873.1)  |
| 248  |        |          | 43 9/16  | (1108.0) |
| 348  | 56     | (1422.4) | 39 1/2   | (1003.3) |
| 260  |        |          | 42 1/2   | (1079.5) |
| 360  | 66 3/4 | (1695.5) | 46 1/4   | (1174.8) |
| 460  |        |          | 49 7/8   | (1267.0) |

Consult WPT Application Engineering for application assistance and applicable service factors.

Larger bore sizes may be accommodated, consult WPT Application Engineering.

Dynamic torque is 75% of static torque.

# Power Grip Grinding Mill Clutch

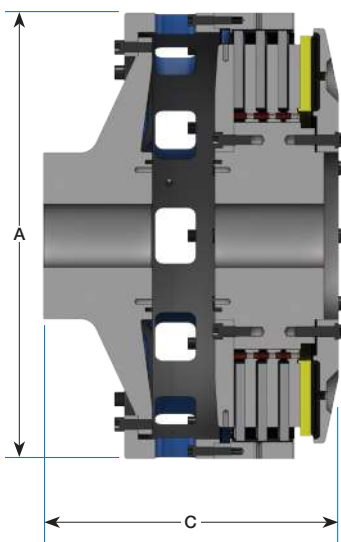
## Axial Locking Device

An optional axial locking device that holds the grinding mill electric motor shaft in the magnetic center.

### Specifications without Axial Locking

| Model | Torque Rating @ 100 psi (7 bar) |                        | Maximum Slip Speed<br>r/min | Weight and Inertia      |   |  |  | Lining Area<br>in <sup>2</sup> (cm <sup>2</sup> ) | Bore Range        |                    |
|-------|---------------------------------|------------------------|-----------------------------|-------------------------|---|--|--|---|-------------------|--------------------|
|       | Static Torque<br>lb-in (N-m)    | Maximum Speed<br>r/min |                             | Total Weight<br>lb (kg) | Total Inertia<br>lb-ft <sup>2</sup> (kgm <sup>2</sup> ) | Ring, FD, & QC Adapter Weight<br>lb (kg) | Ring, FD, & QC Adapter Inertia<br>lb-ft <sup>2</sup> (kgm <sup>2</sup> ) |   | Clutch<br>in (mm) | Adapter<br>in (mm) |
| 224H  | 330,000 (37300)                 | 1350                   | 950                         | 1,180 (536)             | 746 (31.3)  | 557 (253)                                | 436 (18.3)   | 1,200 (7570)                                      | 4.75 (120.7)      | 7.00 (177.8)       |
| 324H  | 488,000 (55100)                 | 1350                   | 950                         | 1,450 (657)             | 864 (36.3)  | 622 (282)                                | 487 (20.4)   | 1,800 (11400)                                     |                   |                    |
| 230H  | 648,000 (73200)                 | 1100                   | 760                         | 2,210 (1000)            | 1,970 (82.9)  | 997 (452)                                | 1,060 (44.6)   | 1,700 (10800)                                     | 7.00 (177.8)      | 8.00 (203.2)       |
| 330H  | 954,000 (108000)                | 1100                   | 760                         | 2,640 (1200)            | 2,530 (106)   | 1,070 (486)                              | 1,210 (50.6)   | 2,500 (16200)                                     |                   |                    |
| 236   | 1,010,000 (114000)              | 900                    | 640                         | 3,000 (1360)            | 3,930 (165)   | 1,250 (568)                              | 1,960 (82.3)   | 2,700 (17700)                                     | 9.00 (228.6)      | 9.75 (247.7)       |
| 336   | 1,490,000 (168000)              | 900                    | 640                         | 3,770 (1710)            | 4,870 (204)   | 1,440 (655)                              | 2,440 (102)  | 4,100 (26500)                                     |                   |                    |
| 242   | 1,540,000 (174000)              | 750                    | 550                         | 4,740 (2150)            | 9,100 (382)   | 2,380 (1080)                             | 5,710 (240)  | 3,200 (20600)                                     | 11.00 (279.4)     | 12.56 (319.1)      |
| 342   | 2,290,000 (259000)              | 750                    | 550                         | 5,550 (2520)            | 10,900 (458)  | 2,610 (1180)                             | 6,620 (278)  | 4,800 (30900)                                     |                   |                    |
| 248   | 2,750,000 (311000)              | 650                    | 480                         | 7,570 (3430)            | 18,500 (777)  | 3,560 (1610)                             | 10,600 (445)   | 4,800 (30900)                                     | 12.00 (304.8)     | 14.00 (355.6)      |
| 348   | 4,100,000 (463000)              | 650                    | 480                         | 8,720 (3960)            | 20,600 (865)  | 3,860 (1750)                             | 11,900 (500)   | 7,200 (46400)                                     |                   |                    |
| 260   | 5,590,000 (632000)              | 525                    | 380                         | 12,900 (5860)           | 43,200 (1810)   | 5,710 (2590)                             | 24,600 (1030)  | 7,800 (50300)                                     | 15.00 (381.0)     | 15.00 (355.6)      |
| 360   | 8,320,000 (940000)              | 525                    | 380                         | 14,700 (6670)           | 51,700 (2170)   | 6,490 (2940)                             | 29,300 (1230)  | 11,700 (75500)                                    |                   |                    |
| 460   | 11,100,000 (1250000)            | 525                    | 380                         | 16,700 (7570)           | 59,400 (2490)   | 7,190 (3260)                             | 33,500 (1410)  | 15,600 (101000)                                   |                   |                    |

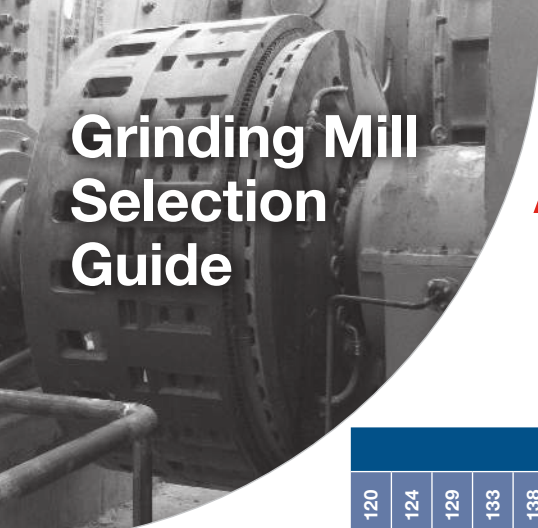
### Dimensions without Axial Locking



| Size | A               |         | C               |         |
|------|-----------------|---------|-----------------|---------|
|      | in (mm)         | in (mm) | in (mm)         | in (mm) |
| 224H | 28 (711.2)      |         | 11 (279.4)      |         |
| 324H |                 |         | 21 1/2 (546.1)  |         |
| 230H | 34 (863.6)      |         | 22 5/8 (574.7)  |         |
| 330H |                 |         | 25 1/8 (638.2)  |         |
| 236  | 41 (1041.0)     |         | 22 5/8 (574.7)  |         |
| 336  |                 |         | 26 3/4 (679.5)  |         |
| 436  |                 |         | 29 5/8 (752.5)  |         |
| 242  | 49 1/4 (1251.0) |         | 24 1/2 (622.3)  |         |
| 342  |                 |         | 27 9/16 (700.1) |         |
| 248  | 56 (1422.0)     |         | 29 3/8 (746.1)  |         |
| 348  |                 |         | 32 1/8 (816.0)  |         |
| 260  |                 |         | 40 (1016.0)     |         |
| 360  | 66 3/4 (1695.5) |         | 43 3/4 (1111.3) |         |
| 460  |                 |         | 47 3/8 (1203.5) |         |



# Grinding Mill Selection Guide



|              | Speed r/min |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
|--------------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--|
|              | 120         | 124 | 129 | 133 | 138 | 144 | 150 | 157 | 164 | 172 | 180 | 190 | 200 | 212 | 225 | 240 | 257 | 277 | 300 | 327 | 360 | 430 | 450 | 514 | 600 | 720 | 900 | 1200 |  |
| 0 (0)        |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 125 (130)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 150 (112)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 175 (130)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 200 (149)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 250 (186)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 300 (224)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 350 (261)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 400 (298)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 450 (336)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 500 (373)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 600 (447)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 700 (522)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 800 (597)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 900 (671)    |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 1000 (746)   | 236         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 1250 (932)   |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 1500 (1120)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 1650 (1230)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 1750 (1300)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 2000 (1490)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 2200 (1640)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 2250 (1680)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 2500 (1860)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 2750 (2050)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 3000 (2240)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 3500 (2610)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 3800 (2830)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 4000 (2980)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 4400 (3280)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 4800 (3580)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 5000 (3730)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 5500 (4100)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 6000 (4470)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 6500 (4850)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 7000 (5220)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 7500 (5590)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 8000 (5970)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 8500 (6340)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 9000 (6710)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 9500 (7080)  |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 10000 (7460) |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 11000 (8200) |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 11500 (8580) |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |
| 12000 (8950) |             |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |  |

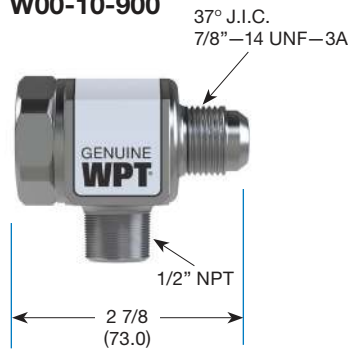
Grinding Mill Selection Guide is for reference only. For full warranty consideration, a data sheet must be turned into WPT Power and complete review performed by WPT Power Applications Engineering.

# Power Grip Accessories

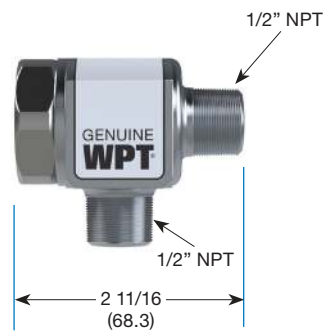
## Quick Release Valves

WPT quick release valves are utilized to provide fast exhaust of air pressure from the clutch. Mounted directly to the airtube spuds, these QRVs provide a large exhaust port directly at clutch or brake. Mufflers are optional for quieter operation.

**W00-10-900**



**W00-10-901**



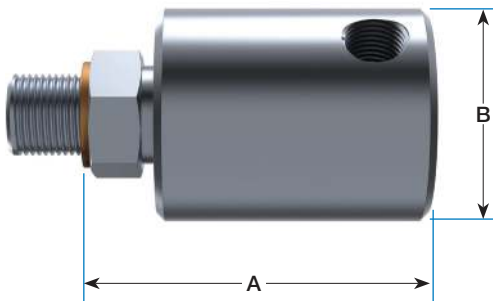
**W00-10-900 with W00-10-906**



Shown with optional muffler

## Rotating Unions

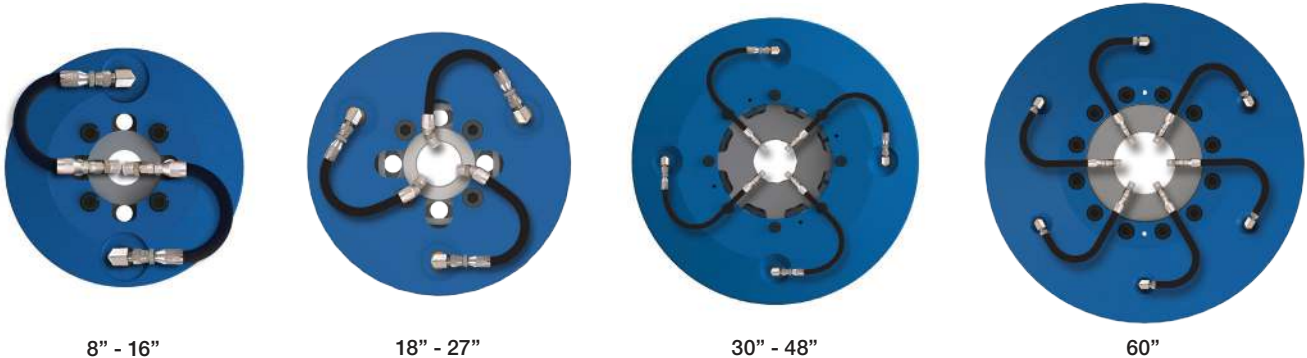
The WPT rotating union is engineered to allow air or fluid passage, under pressure, to the end of a rotating shaft. This is a maintenance free design that protects against leakage.



| Clutch Size   | Air Union Part Number | A              | B              | Rotor Thread | Inlet Thread  |
|---------------|-----------------------|----------------|----------------|--------------|---------------|
|               |                       | in (mm)        | in (mm)        |              |               |
| 108 thru 318H | W00-21-006            | 2 9/16 (66.5)  | 1 5/8 (41.3)   | 5/8"-18 UNF  | 1/4" NPT      |
|               | W00-21-001            | 3 3/8 (85.7)   | 1 11/16 (43.7) | 5/8"-18 UNF  | 3/8" NPT      |
| 121 thru 336  | W00-21-002            | 3 11/16 (95.2) | 2 3/16 (56.7)  | 1"-14 UNS    | 1/2" NPT/BSPT |
|               | W00-21-008            | 4 1/4 (109.5)  | 2 13/16 (72.9) | 1"-14 UNS    | 3/4" NPT      |
| 342 thru 460  | W00-21-011            | 5 1/16 (128.5) | 3 1/4 (82.6)   | 1 1/2"-12UNF | 1" NPT        |

Larger capacity rotating air unions for faster response time available.

## Typical Hose Arrangements for Power Grip Clutches



8" - 16"

18" - 27"

30" - 48"

60"