

BORING SPINDLES

| Model | Spindle dia (mm) | Max.Normal Spindle Speed (rpm) | Max.allowable horse power of Motor (kw) | Bearing | Weight (kgf) | |
|---------|------------------|--------------------------------|---|--|--|----|
| 7F-20 | 20 | 10,000 | 0.75 | Angular contact ball bearing | 9.7 | |
| 7F-30 | 30 | 4,500 | 2.2 | | 26 | |
| 7F-30-K | 30 | 4,500 | 2.25 | | 26 | |
| 7F-40 | 40 | 3,800 | 2.2 | | 36 | |
| 7F-40-K | 40 | 3,800 | 2.2 | | 35 | |
| 7F-45 | 45 | 3,500 | 2.2 | | 37.5 | |
| 7F-45-K | 45 | 3,500 | 2.2 | | 36.5 | |
| 7F-50 | 50 | 3,000 | 3.7 | | 63 | |
| 7F-50-K | 50 | 3,000 | 3.7 | | 63 | |
| 7F-60 | 60 | 2,500 | 3.7 | | 83 | |
| 7F-60-K | 60 | 2,500 | 3.7 | | 80 | |
| 6F-40 | 40 | 7,000 | 2.2 | | Angular contact ball bearing + Double-row cylindrical roller bearing | 48 |
| 6F-50 | 50 | 6,000 | 3.7 | | | 49 |
| 6F-60 | 60 | 5,000 | 3.7 | 77 | | |
| 6F-75 | 75 | 4,000 | 5.5 | 130 | | |
| 6F-85 | 85 | 3,500 | 7.5 | 165 | | |
| 6F-100 | 100 | 3,000 | 15 | 231 | | |
| 6F-120 | 120 | 2,500 | 18.5 | 340 | | |
| 6F-130 | 130 | 2,200 | 22 | 410 | | |
| 3R-25 | 25 | 3,800 | 1.5 | Taper roller bearing + Angular contact ball bearing | 9.7 | |
| 3R-30 | 30 | 3,000 | 2.2 | | 26 | |
| 3R-30-K | 30 | 3,000 | 2.2 | | 26 | |
| 3R-40 | 40 | 2,700 | 2.2 | | 36 | |
| 3R-40-K | 40 | 2,700 | 2.2 | | 35 | |
| 3R-45 | 45 | 2,500 | 2.2 | | 3705 | |
| 3R-45-K | 45 | 2,500 | 2.2 | | 36.5 | |
| 3R-50 | 50 | 2,000 | 3.7 | | 63 | |
| 3R-50-K | 50 | 2,000 | 3.7 | | 63 | |
| 3R-60 | 60 | 1,500 | 3.7 | | 83 | |
| 3R-60-K | 60 | 1,500 | 3.7 | | 80 | |
| 3R-75 | 75 | 1,000 | 5.5 | | 115 | |
| 3R-75-K | 75 | 1,000 | 5.5 | | 115 | |
| 3R-85 | 85 | 900 | 7.5 | | 145 | |
| 3R-85-K | 85 | 900 | 7.5 | | 137 | |
| 3R-100 | 100 | 700 | 15 | | 233 | |
| 3R-120 | 120 | 500 | 18.5 | | 380 | |
| 4R-40 | 40 | 4,500 | 2.2 | Double-row cylindrical roller bearing + roller bearing and Double-row thrust angular ball bearing Double-row cylindrical | 48 | |
| 4R-50 | 50 | 4,000 | 3.7 | | 49 | |
| 4R-60 | 60 | 3,400 | 3.7 | | 77 | |
| 4R-75 | 75 | 2,800 | 5.5 | | 130 | |
| 4R-85 | 85 | 2,500 | 7.5 | | 165 | |
| 4R-100 | 100 | 2,200 | 15 | | 231 | |
| 4R-120 | 120 | 1,800 | 18.5 | | 340 | |
| 4R-130 | 130 | 1,500 | 22 | | 410 | |

MILLING SPINDLES

| Model | Spindle dia (mm) | NT# | Max.Normal Spindle Speed (rpm) | Max.allowable horse power of Motor (kw) | Bearing | Weight (kgf) |
|-----------|------------------|-----|--------------------------------|---|---|--------------|
| 7M-50F | 50 | 30 | 3,000 | 3.7 | Angular contact ball bearing | 66 |
| 7M-50F-K | 50 | 30 | 3,000 | 3.7 | | 66 |
| 7M-60F | 60 | 40 | 2,500 | 3.7 | | 84 |
| 7M-60F-K | 60 | 40 | 2,500 | 3.7 | | 81 |
| 2M-50R | 50 | 30 | 2,000 | 3.7 | Taper roller bearing + Angular contact ball bearing | 66 |
| 2M-50R-K | 50 | 30 | 2,000 | 3.7 | | 66 |
| 2M-60R | 60 | 40 | 1,500 | 3.7 | | 84 |
| 2M-60R-K | 60 | 40 | 1,500 | 3.7 | | 81 |
| 2M-75R | 75 | 40 | 1,000 | 5.5 | Taper roller bearing + Cylindrical roller bearing | 115 |
| 2M-75R-K | 75 | 40 | 1,000 | 5.5 | | 115 |
| 2M-85R | 85 | 50 | 900 | 7.5 | | 145 |
| 2M-100R | 100 | 50 | 700 | 15 | | 233 |
| 2M-120R | 120 | 50 | 500 | 18.5 | | 320 |
| 7FSA-30 | 30 | | 4,500 | 2.2 | Angular contact ball bearing | 91 |
| 7FSX-30 | 30 | | 4,500 | 2.2 | | 90 |
| 7FSA-45 | 45 | | 3,500 | 2.2 | | 102 |
| 7FSX-45 | 45 | | 3,500 | 2.2 | | 100 |
| 7MSA-50F | 50 | 30 | 3,000 | 3.7 | | 163 |
| 7MSX-50F | 50 | 30 | 3,000 | 3.7 | | 175 |
| 7MSA-60F | 60 | 40 | 2,500 | 3.7 | | 180 |
| 7MSX-60F | 60 | 40 | 2,500 | 3.7 | | 180 |
| 3RSA-30 | 30 | | 3,000 | 2.2 | | 91 |
| 3RSX-30 | 30 | | 3,000 | 2.2 | | 90 |
| 3RSA-45 | 45 | | 2,500 | 2.2 | 102 | |
| 3RSX-45 | 45 | | 2,500 | 2.2 | 100 | |
| 2MSA-50R | 50 | 30 | 2,000 | 3.7 | Angular contact ball bearing | 163 |
| 2MSX-50R | 50 | 30 | 2,000 | 3.7 | | 175 |
| 2MSA-60R | 60 | 40 | 1,500 | 3.7 | | 180 |
| 2MSX-60R | 60 | 40 | 1,500 | 3.7 | | 180 |
| 2MSA-75R | 75 | 40 | 1,000 | 5.5 | Taper roller bearing + Cylindrical roller bearing | 235 |
| 2MSX-75R | 75 | 40 | 1,000 | 5.5 | | 235 |
| 2MSA-85R | 85 | 50 | 900 | 7.5 | | 260 |
| 2MSX-85R | 85 | 50 | 900 | 7.5 | | 260 |
| 2MSA-100R | 100 | 50 | 700 | 15 | | 460 |
| 2MSX-100R | 100 | 50 | 700 | 15 | | 460 |
| 2MSA-120R | 120 | 50 | 500 | 18.5 | 570 | |
| 2MSX-120R | 120 | 50 | 500 | 18.5 | 570 | |
| 4M-60F | 60 | 40 | 5,000 | 3.7 | Angular contact ball bearing | 78 |
| 4M-75F | 75 | 40 | 4,000 | 5.5 | | 130 |
| 4M-85F | 85 | 50 | 3,500 | 7.5 | Double-row cylindrical roller bearing | 165 |
| 4M-100F | 100 | 50 | 3,000 | 15 | | 235 |
| 4M-120F | 120 | 50 | 2,500 | 18.5 | | 340 |
| 4M-60R | 60 | 40 | 3,400 | 3.7 | | 78 |
| 4M-75R | 75 | 40 | 2,800 | 5.5 | Double-row cylindrical roller bearing + Double-row thrust angular | 130 |
| 4M-85R | 85 | 50 | 2,500 | 7.5 | | 165 |
| 4M-100R | 100 | 50 | 2,200 | 15 | | 235 |
| 4M-120R | 120 | 50 | 1,800 | 18.5 | | 340 |

GUNDRILLING SPINDLES

| Model | Spindle dia (mm) | Max.Normal Spindle Speed (rpm) | Max.allowable horse power of Motor (kw) | Bearing | Weight (kgf) |
|----------|------------------|--------------------------------|---|------------------------------|--------------|
| 4F-30G | 30 | 5,000 | 2.2 | Angular contact ball bearing | 26 |
| 4F-30G-K | 30 | 5,000 | 2.2 | | 26 |
| 4F-40G | 40 | 4,000 | 2.2 | | 36 |
| 4F-40G-K | 40 | 4,000 | 2.2 | | 35 |
| 4F-45G | 45 | 3,500 | 2.2 | | 37.5 |
| 4F-45G-K | 45 | 3,500 | 2.2 | | 36.5 |
| 4F-50G | 50 | 3,000 | 3.7 | | 63 |
| 4F-50G-K | 50 | 3,000 | 3.7 | | 63 |
| 4F-60G | 60 | 2,500 | 3.7 | | 83 |
| 4F-60G-K | 60 | 2,500 | 3.7 | | 80 |

FACING SPINDLES

| Model | Spindle dia (mm) | Max.Normal Spindle Speed (rpm) | Max.allowable horse power of Motor (kw) | Bearing | Weight (kgf) |
|----------|------------------|--------------------------------|---|--|--------------|
| FA-2H-10 | 70 | 600 | 2.2 | FA-2H-10, 2E-30 FA-5C-5 Taper roller bearing+ Angular contact ball bearing others Taper roller bearing+ Cylindrical roller bearing | 137 |
| FA-2E-30 | 60 | 600 | 2.2 | | 137 |
| FA-3C-10 | 100 | 600 | 5.5 | | 350 |
| FA-3C-40 | 100 | 600 | 5.5 | | 350 |
| FA-4D-10 | 85 | 600 | 3.7 | | 215 |
| FA-4B-30 | 85 | 600 | 3.7 | | 215 |
| FA-5C-5 | 60 | 800 | 1.5 | | 110 |
| FA-6C-10 | 100 | 600 | 7.5 | | 360 |
| FA-6A-50 | 100 | 600 | 7.5 | | 360 |
| FA-7A-10 | 120 | 500 | 7.5 | | 590 |
| FA-7A-70 | 120 | 500 | 7.5 | | 590 |

DRILLING SPINDLES

| Model | Spindle dia (mm) | NT# | Max.Normal Spindle Speed (rpm) | Max.allowable horse power of Motor (kw) | Bearing | Weight (kgf) |
|-----------|------------------|-------|--------------------------------|---|---|--------------|
| 7D-20FH | 20 | 1 | 10,000 | 0.75 | Angular contact ball bearing | 9.7 |
| 7D-20FH-P | 20 | 1 | 10,000 | 0.75 | | 11 |
| 7D-20FL | 20 | 1 | 6,000 | 0.75 | | 9.7 |
| 7D-20FL-P | 20 | 1 | 6,000 | 0.75 | | 11 |
| 2D-30 | 30 | 1,2 | 2,500 | 1.5 | Taper roller bearing | 25 |
| 2D-30-K | 30 | 1,2 | 2,500 | 1.5 | | 25 |
| 2D-30-P | 30 | 1,2 | 2,500 | 1.5 | | 33 |
| 2D-45 | 35 | 2,3 | 2,000 | 2.2 | | 37 |
| 2D-45-K | 35 | 2,3 | 2,000 | 2.2 | | 37 |
| 2D-45-P | 35 | 2,3 | 2,000 | 2.2 | | 47 |
| 3D-25 | 25 | 1 | 3,500 | 0.75 | Taper roller bearing + Angular contact ball bearing | 9.7 |
| 3D-25-P | 25 | 1 | 3,500 | 0.75 | | 11 |
| 3D-45 | 45 | 2,3,4 | 2,000 | 3.7 | | 38.5 |
| 3D-45-K | 45 | 2,3,4 | 2,000 | 3.7 | | 38.5 |
| 3D-45-P | 45 | 2,3,4 | 2,000 | 3.7 | | 48.5 |
| 3D-50 | 50 | 3,4 | 1,500 | 3.7 | | 70 |
| 3D-50-K | 50 | 3,4 | 1,500 | 3.7 | | 70 |
| 3D-60 | 60 | 3,4 | 1,500 | 3.7 | | 83 |
| 3D-60-K | 60 | 3,4 | 1,500 | 3.7 | 83 | |