



Surface-grinding machine

F-Grind A

20x40" to 28x80"



- The grinding spindle runs in preloaded precision angular contact ball bearings
- Automatic transverse and longitudinal feed
- High positioning accuracy of the vertical axis by AC servo-motor in conjunction with recirculating ball screw
- Delivery of the vertical axis manually via handwheel
- Rapid traverse to the desired working height
- Roughing and finishing parameters are adjustable
- Hydraulic table movement in the longitudinal axis
- Precision linear guides for the vertical axis
- Double V guides for the transverse axis
- Combined flat and V guides for the longitudinal axis
- High table load capacity for heavy work pieces
- Table guideways are hardened, ground and PTFE (polytetrafluoroethylene) coated for very high wear resistance

Standard configuration

- Heavy, stiffened cast frame with superior dampening properties
- Recirculating ball spindles for horizontal and vertical axis
- Grinding wheel (standard)
- Grinding wheel flange (standard)
- Balance counter stand
- Balancing stand
- Diamond dresser
- Work light
- Automatic lubrication
- Leveling pads and bolts
- Tool kit
- Operation manual

Optional configuration

- AD 5 NC control
- Magnetic chuck
- Coolant system with magnetic separator
- Coolant system with paper filter
- Coolant system with paper filter and magnetic separator
- Automatic demagnetizing
- Grinding wheel (extra)
- Backsplash guard
- Parallel dresser (manual)
- NC-controlled dressing and compensating device
- Recirculating ball spindles for horizontal and vertical axis

| Specifications | F-Grind 50100 A F-Grind 60100 A F-Grind 70100 A | | | F-Grind 50150 A F-Grind 60150 A F-Grind 70150 A | | | F-Grind 50200 A F-Grind 60200 A F-Grind 70200 A | | |
|---------------------------------|-------------------------------------------------------|---------------------------------------------------------------|--|-------------------------------------------------------|--|---------------------|-------------------------------------------------------|--|--|
| | | 20/24/28" x 40" | | 20/24/28" x 60" | | 20/24/28" x 80" | | | |
| Table dimensions | mm | 500x1020 (20x40") | | 500x1520 (20x60") | | 500x2020 (20x79.5") | | | |
| | mm | 600x1020 (24x40") | | 600x1520 (24x60") | | 600x2020 (24x79.5") | | | |
| | mm | 700x1020 (28x40") | | 700x1520 (28x60") | | 700x2020 (28x79.5") | | | |
| Distance spindle center-table | mm | 600 [opt. 800/1000] (24" [opt. 31.5/39"]) | | | | | | | |
| Hydraulic table feed | mm/min | 3-25 (110-980"/min) | | | | | | | |
| Automatic transverse feed | mm | 0.5-20 (0.02-0.8") | | | | | | | |
| Rapid cross feed | mm/min | 900 (35"/min) | | | | | | | |
| Transverse feed increment | mm | 0.02 (0.0008") | | | | | | | |
| Transverse feed per revolution | mm | 5 (0.2") | | | | | | | |
| Rapid vertical feed | mm/min | 300 (12"/min) | | | | | | | |
| Vertical feed: 1 revolution | mm | (x1) 0.1, (x5) 0.5, (x10) 1 (0.004, 0.02, 0.04") | | | | | | | |
| Vertical feed: 1 scale division | mm | (x1) 0.001, (x5) 0.005, (x10) 0.01 (0.00004, 0.0002, 0.0004") | | | | | | | |
| Automatic down feed | mm | 0.001-0.999 (0.00004-0.04") | | | | | | | |
| Spindle speed | rpm | 1450 | | | | | | | |
| Grinding wheel dimensions | mm | Ø406x50xØ127 (16x2x5") | | | | | | | |
| Main spindle motor | kW | 7.5 [opt. 11] (10 Hp [opt. 15 Hp]) | | | | | | | |
| Hydraulic pump motor | kW | 2.2 (3 Hp) | | 3.75 (5 Hp) | | | | | |
| Vertical feed motor | kW | 1, AC Servomotor | | | | | | | |
| Weight | kg | 6000 (13,200 lbs) | | 7200 (15,840 lbs) | | 8400 (18,480 lbs) | | | |
| | kg | 6300 (13,860 lbs) | | 7500 (16,500 lbs) | | 8700 (19,140 lbs) | | | |
| | kg | 6600 (14,520 lbs) | | 7800 (17,160 lbs) | | 9000 (19,800 lbs) | | | |
| Item No. | | 3720010 | | 3720013 | | 3720016 | | | |
| | | 3720011 | | 3720014 | | 3720017 | | | |
| | | 3720012 | | 3720015 | | 3720018 | | | |

*The above specifications are subject to change without prior notice. No liability for printing mistakes. Machine may be shown with optional equipment.