



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 20/24/28" x 40"			F-Grind 50150 A F-Grind 60150 A F-Grind 70150 A 20/24/28" x 60"			F-Grind 50200 A F-Grind 60200 A F-Grind 70200 A 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")
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.

Cutting

Turning

Milling

Drilling/Boring

Grinding
Cylindrical • Surface

Sawing

Fabricating