



# Surface-grinding machine

## F-Grind V

31x58" to 39x117"



- The grinding spindle runs in heavy-duty, preloaded angular contact ball bearings
- Automatic feed in X/Y/Z
- High positioning accuracy of the vertical axis by AC servo motor in conjunction with recirculating ball screw
  - Programmable feed of the vertical axis (AD5)
  - Rapid traverse to the desired working height
- Rough and finish parameters are adjustable
- Hydraulic table movement in the longitudinal axis
- Double V guides for the cross travel
- Table guideways are hardened, ground and PTFE (polytetrafluoroethylene) coated for very high wear resistance
- Combination of flat and V-guides for the table longitudinal feed
- High table load capacity for heavy workpieces

### Standard configuration

- AD 5 NC control
- High-performance spindle bearing for extremely quiet operation
- Heavy, stiffened cast frame with superior dampening properties
- Linear guides and recirculating ball screw in vertical axis
- High-quality 6-stage hydraulics for table feeds
- Grinding wheel (standard)
- Grinding wheel flange (standard)
- Balance counter stand
- Balancing stand
- Front/side dressing device
- Work light
- Automatic lubrication
- Leveling pads and bolts
- Tool kit
- Operation manual

### Optional configuration

- Magnetic chuck
- Coolant system with paper filter and magnetic separator
- Automatic demagnetizing
- Grinding wheel (extra)
- Separate hydraulic unit with oil/air cooling
- NC-controlled dressing and compensating device

Specifications	F-Grind 80150 V F-Grind 100150 V		F-Grind 80200 V F-Grind 100200 V		F-Grind 80300 V F-Grind 100300 V		
	31/39" x 58"		31/39" x 78"		31/39" x 117"		
Table dimensions (W/L)	mm	800x1500 (31x58")	800x2000 (31x78")	800x3000 (31x117")			
	mm	1000x1500 (39x58")	1000x2000 (39x78")	1000x3000 (39x117")			
Distance spindle center-table	mm	800 [opt. 1000] (31" [opt. 39"])					
Hydraulic table feed	m/min	3-25 (117-975"/min)					
Automatic transverse feed	mm	0.5-20 (0.02-0.8")					
Rapid transverse 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 (11.7")					
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					
Spindle speed	rpm	1450					
Grinding wheel dimensions	mm	Ø406x50xØ127 [opt. Ø406x76xØ127]					
Main spindle motor	kW	7.5 [opt. 11] (10 Hp [opt. 15 Hp])					
Hydraulic pump motor	kW	5.5 (7.5 Hp)			7.5 (10 Hp)		
Cross-feed motor	kW	0.15 (0.2 Hp)					
Vertical feed motor	kW	1, AC Servomotor					
Weight	kg	12800 (28,160 lbs)	14300 (31,460 lbs)	17300 (38,060 lbs)			
	kg	13800 (30,360 lbs)	15300 (33,660 lbs)	18300 (40,260 lbs)			
Item No.	3720019		3720021		3720023		
	3720020		3720022		3720024		

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