



Weldon Solutions
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Weldon model 120S Midas Cam Grinder

\$488,470



Featuring:

- * **Fanuc model 310i CNC control with high-speed cycle cutting feature for non-round applications**, color LCD and servo drives featuring Fanuc AC digital technology. Includes a battery backup absolute feedback system eliminating the need to reference at each start-up.
- * **320 meters part programming storage, 63 PGMS**
- * **Shear Damper design machine base** providing stiffness, vibration control, and thermal stability through the use of steel shear tubes covered with a viscous material and encapsulated with a special replicating resin.
- * **(3) Shock absorbing machine mounts** for easy three point leveling.
- * **Cross-roller linear way system** with recirculating bearings and precision ground rails. Includes integral way bearing seals and an external wiper system.
- * **Preloaded, precision ground, double-nutted ballscrew assembly** for Z axes.
- * **X axis Fanuc linear motor with glass scale**, including chiller system
- * **Automatic Trabon lubrication system**, monitored by the control, with lube fault protection.
- * **Heavy-duty live spindle workhead** with 6" A2 spindle nose and #5 MT center. Features a 4.7" spindle diameter and a quad set of angular contact bearings.
- * **Fanuc servo work drive.** Work speeds are infinitely variable up to 250RPM.
- * **CSS, workhead constant surface speed.** Automatically adjust work speed as part diameter changes to maintain a constant surface speed.
- * **Tailstock, hydraulically operated, 3.5" stroke**, with #5 MT center. Includes gear reducer for fine taper adjustment via an eccentric quill design.

- * **Full enclosure** with manual sliding front door assembly, rear sliding door for side and overhead access, and maintenance access window panels for workhead area and spindle slide rear .
- * **Electro-mechanical interlock, side door, & 2 electrical switches for access hatches**
- * **Variable speed wheel drive (20 HP)**, CNC controlled with dynamic braking. Normally arranged for constant surface speed as the grinding wheel wears.
- * **Air conditioned electrical panel** to protect solid state components.
- * **Work area lighting** for the convenience of operators and maintenance personnel.
- * **Wheel change assist mechanism 8"**, with wrist for horizontal positioning
- * **Grinding wheel guard and hood assembly**, 20" diameter x 4" width capacity. Includes safety compliance to ANSI standards.
- * **One (1) standard grinding wheel hub assembly** including hub, flange, and balancing weights.
- * **Coolant plumbing and bed-wash system** with single point connection (1" NPT). Includes coolant control valves for automatic control of main coolant to wheel and bedwash..
- * **One set of Weldon manuals**, hard copy. Consisting of operator's manual, programming manual, parts directory, and electrical schematics.
- * **Hydraulic power unit**
- * **Fanuc documentation.** One CD.

Additional Equipment:

Item #	Part #	Qty	Description	
1	1632-0345	1	Barnes MPE-25 magnetic/fabric coolant filtration system	\$23,650
2	S043	1	Main coolant chiller, Turmoil OC-200 RO-CEV, 24,000 BTU	\$11,310
3	1632-0421	1	Coolant flow switch to detect loss of coolant from main supply	\$620
4	1632-0475	1	Wheel scrubber, variable speed, with hi-pressure nozzles, 8 GPM	\$11,010
5	1632-1053	1	Airflow MP14 media type mist collector, 1,350 CFM, including stand	\$7,730
6	1632-0680	1	Lateral locator, wheelhead mounted - Renishaw TS20	\$6,420
7	S087	1	Dittel "Easyline" combination acoustic emissions sensor and automatic wheel balancer	\$15,790

8	1632-0620	1	CGI in-process gage system, model D100 amplifier, model WG2 gage head	\$22,500
9	1632-0720	1	GII Solutions electric dresser DTS 3300, work head mounted	\$16,540
10	1632-0965	1	Automatic enclosure door, electric, with interlock	\$10,490
11	S504	1	Mechanical tang locator for radial orientation from machined flat on the work part.	\$6,340
12	S059	1	Automatic floating driver, less collets	\$13,020
13	S039	1	Rotary diamond roll 5.5 diameter	\$2,910
14	1632-1750	2	Additional manuals - Weldon (hard copy)	\$390
15	1632-1710	2	Additional Fanuc manuals on CD	\$460
16	S571	1	Start up tooling including one 20" diameter vitrified CBN grinding wheel, one set of gage fingers and contacts, one driver collet, and one tailstock center.	\$12,790

Total Investment:	\$650,440
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Optional Automation Equipment:

Item #	Part #	Qty	Description	
18		1	Automation system, less pallets, consisting of:	\$114,145
	1632-2100		Fanuc 6-axis LR Mate 200-iC robot, with brakes	
	1632-2110		Machine base mounting on linear guide rails	
	S072		Fanuc Mate controller and interface	
	1632-2170		Dual gripper arrangement, 2 jaw	
	1632-2130		Interlocked safety guarding	
	S201		Fanuc motion bundle	
	S200		I/O link connection kit	
	1632-2050		Three tier status light	
	1632-2150		Dual pallet station with in-position switches	
	S080		Set of (2) custom pallets for horizontal orientation	
19		1	Weldon Single Spindle Horizontal Center Lap Station featuring:	\$80,020
			Fabricated steel machine base	
			Live spindle workhead	
			Compliant spindle slide assembly	
			Variable speed spindle drive system	
			Spindle mounting plate	
			Drip Pan	
			Pneumatic components	
			Coolant Mister Unit	
			Blow off nozzle and plumbing	
			Floating style #30 taper tool holder	
			CBN centering tool (plated)	
			Slide and clamp mechanism for manual operation	
			Note: Includes floor standing safety enclosure upgrade.	

General Optional Equipment:

Item #	Part #	Qty	Description	
20	1632-0940	1	Dual Opto touch start option	\$950
21	S050	1	CO2 Fire suppression system for straight oil coolant applications, including mist collector flue, thermal detector, manual release station, and fire suppression sensor.	\$11,800
22	1632-1131	1	Spare wheel hub, 4" wide x 8" hole	\$1,340
23	1632-1405	1	Wheel change lift table for use with wheel assist mechanism	\$800
24	1632-0815	1	ATA Flash memory card	\$70
25	S068	1	1280 Meter (512K) program storage, 200 PGMS	\$420

All prices are in US dollars and do not include state or local taxes. Payment of all such taxes and fees are the responsibility of the buyer.

Standards

The machine is manufactured to Weldon design standards that incorporate the following specifications as they apply to cylindrical grinders:

- * NEC
- * NFPA79E
- * ANSI
- * JIC
- * OSHA

F.O.B.: Weldon Solutions, York, PA

Electrics: 480VAC, 3 Phase, 60 Hertz

Terms: 80% of total order value upon machine acceptance at Weldon. 20% of total order value upon completion of installation, not

to exceed 30 days from date of shipment.

