

THE LIBERTY II

CNC ID/OD GRINDER



*The Next Generation of Dependable CNC Equipment
for the Modern Manufacturing Facility*



American Built Since 1929

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CNC ID/OD GRINDER

HIGHLIGHTS

- 1- Siemens 840D Solution Line Control Standard
- 2- Direct Drive Motorized ID Spindles (internally cooled)
- 3- Direct Drive Motorized Work-head (internally cooled)
- 4- Fully Interlocked Enclosure
- 5- Workhead Equipped with Positioning Capabilities
- 6- Newly Designed Cast Iron Base for Better Stability / Vibration Damping
- 7- New Compact Design Gives the Same Machine Travel in a Smaller Footprint

GENERAL SPECS	ENGLISH	METRIC
Feedback Device	Scale / Encoder	
Table Size	5 in x 32 in	127 mm x 813 mm
Z-axis Travel	18 in	450 mm
X-axis Travel	10 in	254 mm
Machine Tool Dimensions	84 in x 62 in x 65 in	2134 mm x 1575 mm x 1650 mm
Machine Tool Weight	8000 lbs	3629 kg
Max Work Piece	Ø14 in x 10 in	Ø356 mm x 254 mm
Workhead Through Hole	Ø1.50 in	Ø38 mm
Standard Wheel Size	Ø12 in x 1 in	Ø304 mm x 25 mm
Machine Repeatability	0.000025in (0.000050 in Dia.)	.0005mm (.001mm Dia.)

POWER REQUIREMENTS	
Power Requirement	208 V, 230 V, 480 V 3 Phase 50/60Hz
Power Consumption	18.5 kVA
Max. Current	30 A

CNC CONTROL FEATURES	
Display Type	10.4 in TFT color with numeric CNC Keypad
Position Command	Incremental and Absolute
Min. Input Command	0.00001 in / 0.0001 mm
Programing Format	Inch/Metric
Control	Machine Control Panel with Spindle and Rate Override Control
Remote Handheld Control	Jog and Step Axis / also Change Increment Value
Remote Diagnostics	Ethernet / Network Connection
Input Format	Ethernet/ USB

SPINDLES	ENGLISH	METRIC
Spindle Nose (TIR)	.00005 in	.0013 mm
PS-SA00011-00 (ID) Spindle		
Speed	5000 - 15000 RPM	
Quill Series	1 "	
Power Rating	3.4 hp	2.5 kw
PS-SA00012-00 (ID) Spindle		
Speed	10000 - 30000 RPM	
Quill Series	5/8 "	
Power Rating	3 hp	2.2 kw
PS-SA00004-00 (OD Belt Driven) Spindle		
Speed	5 - 3600 RPM	
Drive Motor Power Rating	7.4 hp	5.5 kw

TABLE AXIS / CROSS-FEED AXIS	
Servo Motor Driven Ballscrew	
Closed-Loop Linear Scale Feedback - Heidenhain	
Scale Min. Measuring Step	0.000020 in 0.5 µm
Servo Power Rating	1.88 hp 1.4 kw

C-AXIS	
Speed	0 - 1000 RPM
Closed-Loop Encoder Feedback (Standard)	5000 count
(Optional Out-of-Round)	18000 count
Torque Rating	3.5 ft-lb 47.5 Nm
Spindle Nose	Standard A-5

OUT-OF-ROUND GRINDING CAPABILITIES



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