

# THE LIBERTY II

## 14 x 10 CNC ID/OD GRINDER



U.S.A. MADE

SINCE 1929



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## 14x10 CNC ID/OD GRINDER

### GENERAL SPECIFICATIONS

Overall Dimensions (WxDxH)	91 in x 89 in x 66 in
* Height w/ Mist Collector Option	85 in (2159 mm)
Machine Weight (Net)	8000 lbs (3628.7 kg)
Max. Part Diameter	14 in (355.6 mm)
Distance Between Centers	10 in (254 mm)
Worktable Size	5 in x 38 in (127 mm x 965.2 mm)

### CNC CONTROL/PROGRAMMING

Siemens SINUMERIK 840D SL	
Input Format	Ethernet or USB
Position Command	Incremental and Absolute
Programming Format	inch or metric
Minimum Program Increment	0.00001 in (0.0001 mm)
Handwheel Control	Remote Handheld Pendant

### TABLE AXIS

Servo Motor Driven Ballscrew	
Hand Scraped Turcite Coated Vee & Flat Way System	
Heidenhain Linear Scale Closed Loop Feedback	
Servo Power Rating	1.81 HP (1.35 KW)
Total Travel	18 in (457.2 mm)

### CROSSFEED AXIS

Servo Motor Driven Ballscrew	
Precision Rolling Element Linear Motion Bearings	
Heidenhain Linear Scale Closed Loop Feedback	
Servo Power Rating	1.81 HP (1.35 KW)
Total Travel	9.4 in (238.7 mm)

### POWER

Power Requirement	208, 230, or 480 VAC - 50/60 Hz
Power Consumption	18.5 kVA
Max. Current	30 A
Total Power Rating	25 HP (18.64 kW)

### GRINDING SPINDLES

Spindle Nose (T.I.R.)	0.00005 in (0.0013 mm)
PS-SA00004-00 (OD Belt Driven)	
Speed	5 - 3600 RPM
Standard Wheel Size	Ø12 in x 1 in (Ø304 mm x 25.4 mm)
Power Rating	7.4 Hp (5.5 kW)
PS-SA000011-00 (ID Direct Drive)	
Speed	5000 - 15000 RPM
Quill Series	1 in or ER-20 Collets
Power Rating	3.4 Hp (2.5 kW)
PS-SA00012-01 (ID Direct Drive)	
Speed	10000 - 30000 RPM
Quill Series	5/8 in or ER-16 Collets
Power Rating	3.4 Hp (2.5 kW)
PS-SA00013-00 (ID Direct Drive)	
Speed	15000 - 40000 RPM
Quill Series	7/16 in or ER-11 Collets
Power Rating	2 Hp (1.5 kW)

\* Other Spindles Available Upon Request

### WORKHEAD SPINDLE

Speed	0 - 1000 rpm
Spindle Nose	A5 - Accepts 5C Collets
Torque Rating	33 ft-lbs (45 Nm)
Heidenhain Angular Scale Closed Loop Feedback	
Standard	5000 Line Counts
Non-circular Option	18000 Line Counts
Manually Pivoting Workhead (B-Axis) - Accuracy	0.0005 Degrees

## TIME TESTED QUALITY

Born in 1929, Parker Majestic grinders have a proven reputation for durability, longevity, and precision. All of our grinders incorporate high quality spindles, hand scraped ways, and precision linear-motion bearing ways. This is all mounted on precision cast iron bases, setting the industry standard for stability, reliability, and strength. We offer advanced technology Siemens CNC control packages that allow our products to provide exceptional return on investment for years to come.

For your convenience, our CNC grinders are packaged with preprogrammed conversational grind and dress cycles. These can be used alone, or combined to create basic or complex part programs without in depth knowledge of G & M code. To create forms, a contour drawing tool is also bundled as part of the default package. All standard G & M code programs are also accepted making our tools accessible to operators of a broad skill range.

Parker Majestic has decades of knowledge manufacturing and maintaining various styles of precision spindles. This experience enhances our ability to provide a wide selection of grinding spindles that can be fit to your machine and application. Known for accuracy and durability, our spindles are designed to stand the test of time.

To help you achieve the greatest precision and productivity in your grinding operations, we provide exceptional training, machine service, and spare parts inventory to support your Parker Majestic system.

### NON-CIRCULAR GRINDING CAPABILITIES



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