



# Product Specifications

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## Model SB1039F 14" x 40" 16-Speed 220V 3-Phase Lathe with Fagor DRO

### Product Dimensions

Weight.....	2444 lbs.
Width (side-to-side) x Depth (front-to-back) x Height.....	80-3/4 x 32-1/8 x 54-3/8 in.
Footprint (Length x Width).....	80-3/4 x 19-1/2 in.

### Shipping Dimensions

Type.....	Wood Slat Crate
Content.....	Machine
Weight.....	2498 lbs.
Length x Width x Height.....	90 x 44 x 63 in.

### Electrical

Power Requirement.....	220V, 3-Phase, 60 Hz
Prewired Voltage.....	220V
Full-Load Current Rating.....	14.3A
Minimum Circuit Size.....	20A
Connection Type.....	Cord & Plug
Power Cord Included.....	No
Recommended Power Cord.....	"S"-Type, 4-Wire, 12 AWG, 300 VAC
Plug Included.....	No
Recommended Plug Type.....	15-20
Switch Type.....	Control Panel w/Magnetic Switch Protection
Recommended Phase Converter.....	G7978

### Motors

#### Main

Horsepower.....	5 HP / 2.5 HP
Phase.....	3-Phase
Amps.....	14A/10A
Speed.....	3450 / 1720 RPM
Type.....	TEFC Induction
Power Transfer .....	V-Belt Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

### **Coolant Pump**

Horsepower.....	1/8 HP
Phase.....	3-Phase
Amps.....	0.3A
Type.....	TEFC Induction (Class F)
Power Transfer .....	Direct Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

### **Main Specifications**

#### **Operation Info**

Swing Over Bed.....	14 in.
Distance Between Centers.....	40 in.
Max Weight Between Centers.....	440 lbs.
Swing Over Cross Slide.....	8.66 in.
Swing Over Saddle.....	13-3/4 in.
Swing Over Gap.....	20.94 in.
Maximum Tool Bit Size.....	3/4 in.
Compound Travel.....	4 in.
Carriage Travel.....	36-1/2 in.
Cross Slide Travel.....	7 in.

#### **Headstock Info**

Spindle Bore.....	1.57 in.
Spindle Taper.....	MT#5
Number of Spindle Speeds.....	16
Spindle Speeds.....	50 – 2570 RPM
Spindle Type.....	D1-5 Camlock
Spindle Bearings.....	NTN Tapered Roller
Spindle Length.....	20-7/8 in.
Spindle Length with 3-Jaw Chuck.....	27 in.
Spindle Length with 4-Jaw Chuck.....	25-7/16 in.
Spindle Length with Faceplate.....	22-1/2 in.

#### **Tailstock Info**

Tailstock Quill Travel.....	4-1/2 in.
Tailstock Taper.....	MT#3
Tailstock Barrel Diameter.....	1.968 in.

#### **Threading Info**

Number of Longitudinal Feeds.....	17
Range of Longitudinal Feeds.....	0.002 – 0.067 in./rev.
Number of Cross Feeds.....	17
Range of Cross Feeds.....	0.001 – 0.034 in./rev
Number of Inch Threads.....	45
Range of Inch Threads.....	2 – 72 TPI
Number of Metric Threads.....	39
Range of Metric Threads.....	0.2 – 14.0 mm
Number of Modular Pitches.....	18
Range of Modular Pitches.....	0.3 – 3.5 MP
Number of Diametral Pitches.....	21
Range of Diametral Pitches.....	8 – 44 DP

## Dimensions

Bed Width.....	9 in.
Carriage Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	59 in.
Steady Rest Capacity.....	5/16 – 4-5/16 in.
Follow Rest Capacity.....	5/8 – 3-1/8 in.
Faceplate Size.....	12 in.
Feed Rod Diameter.....	3/4 in.
Floor to Center Height.....	42-5/8 in.
Height With Leveling Jacks.....	54-3/8 in.

## Construction

Base.....	Cast Iron
Headstock.....	Cast Iron
End Gears.....	Flame Hardened Steel
Bed.....	Induction-Hardened, Precision-Ground Meehanite Cast Iron
Body.....	Cast Iron
Stand.....	Cast Iron
Paint Type/Finish.....	Urethane

## Fluid Capacities

Headstock Capacity.....	6.4 qt.
Headstock Fluid Type.....	ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity.....	1.4 qt.
Gearbox Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity.....	1.2 qt.
Apron Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity.....	11.1 qt.

## Other

Country of Origin .....	Taiwan
Warranty .....	2 Years
Approximate Assembly & Setup Time .....	1 Hour
Serial Number Location .....	ID Label on Rear Side of Left Stand
Sound Rating .....	76 dB
ISO 9001 Factory .....	No
Certified by a Nationally Recognized Testing Laboratory (NRTL) .....	No

## Features

- Allen Bradley Electrical Components
- Fagor DRO
- Meehanite Casting, Signature South Bend Three V-Way Bed
- Safety Chuck Guard with Micro-Switch Shut-Off
- Halogen Work Light (24V/70W)
- 4-Way Tool Post
- Complete Coolant System
- Micrometer Carriage Stop
- Threading Dial Indicator
- NTN Japanese Spindle Bearing
- Full Length Splash Guard
- Front Removable Sliding Chip Tray
- Headstock Gears Run in an Oil Bath
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Jog Button and Emergency Stop

## **Included Accessories**

10 in. 4-Jaw Independent Chuck D1-5  
8 in. 3-Jaw Scroll Chuck (Mounted to 8 in. D1-5 Back Plate)  
12 in. Faceplate D1-5  
Follow Rest  
Steady Rest with Roller Bearing Tips  
#5 to #3 Morse Taper Spindle Sleeve  
Two Morse Taper #3 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)  
Six Leveling Pads  
Service Tools  
Tool Box  
USA Written Manual