



## Model SB1045PF 21" x 120" Turn-Nado® EVS Lathe with DRO

**Product Dimensions**

Weight..... 8140 lbs.  
 Width (side-to-side) x Depth (front-to-back) x Height..... 169-3/4 x 27 x 62-1/4 in.  
 Footprint (Length x Width)..... 182 x 71-3/4 in.

**Shipping Dimensions**

Type..... Wood Crate  
 Content..... Machine  
 Weight..... 8712 lbs.  
 Length x Width x Height..... 183 x 45 x 73 in.

**Electrical**

Power Requirement..... 440V, 3-Phase, 60 Hz  
 Full-Load Current Rating..... 18.83A  
 Minimum Circuit Size..... 30A  
 Inverter Type..... Yaskawa G7A4011  
 Switch..... Magnetic with Thermal Protection  
 Switch Voltage..... 440V  
 Plug Included..... No  
 Recommended Plug/Outlet Type..... Hardwire to Locking Disconnect Switch

**Motors**

**Main**

Type..... TEFC Induction  
 Horsepower..... 12-1/2 HP  
 Voltage..... 440V  
 Phase..... 3-Phase  
 Amps..... 18A  
 Speed..... 0 – 3000 RPM  
 Cycle..... 60 Hz  
 Number of Speeds..... Variable  
 Power Transfer ..... V-Belt & Gear  
 Bearings..... Shielded and Permanently Sealed

**Lubrication**

Type..... TEFC Induction  
Horsepower..... 1/4 HP  
Voltage..... 440V  
Phase..... 3-Phase  
Amps..... 0.6A  
Speed..... 1720 RPM  
Cycle..... 60 Hz  
Number of Speeds..... 1  
Power Transfer ..... Direct Drive  
Bearings..... Shielded and Permanently Sealed

**Coolant Pump**

Type..... TEFC Induction  
Horsepower..... 1/8 HP  
Voltage..... 440V  
Phase..... 3-Phase  
Amps..... 0.23A  
Speed..... 3450 RPM  
Cycle..... 60 Hz  
Number of Speeds..... 1  
Power Transfer ..... Direct Drive  
Bearings..... Shielded and Permanently Sealed

**Main Specifications**

**Operation Info**

Swing Over Bed..... 21 in.  
Distance Between Centers..... 120 in.  
Swing Over Cross Slide..... 14.01 in.  
Swing Over Saddle..... 21 in.  
Swing Over Gap..... 31.10 in.  
Maximum Tool Bit Size..... 1 in.  
Compound Travel..... 5.39 in.  
Carriage Travel..... 119 in.  
Cross Slide Travel..... 11 in.

**Headstock Info**

Spindle Bore..... 3.15 in.  
Spindle Taper..... MT#7  
Number of Spindle Speeds..... Variable  
Spindle Speeds..... 18 – 1800 RPM  
Spindle Type..... D1-8  
Spindle Bearings..... Tapered Roller

**Tailstock Info**

Tailstock Quill Travel..... 6.5 in.  
Tailstock Taper..... MT#5  
Tailstock Barrel Diameter..... 3 in.

### Threading Info

Number of Longitudinal Feeds.....	15
Range of Longitudinal Feeds.....	0.0015 – 0.04 in./rev.
Number of Cross Feeds.....	15
Range of Cross Feeds.....	0.00075 – 0.02 in./rev.
Number of Inch Threads.....	38
Range of Inch Threads.....	2 – 72 TPI
Number of Metric Threads.....	40
Range of Metric Threads.....	0.4 – 14 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.....	13.58 in.
Leadscrew Diameter.....	1-3/8 in.
Leadscrew TPI.....	4 TPI
Leadscrew Length.....	145.43 in.
Steady Rest Capacity.....	5/8 – 7-1/16 in.
Follow Rest Capacity.....	5/8 – 5-1/8 in.
Faceplate Size.....	14 in.
Feed Rod Diameter.....	0.93 in.
Floor to Center Height.....	46.65 in.
Height With Leveling Jacks.....	47.9 in.

### Construction

Base.....	Cast Iron
Headstock.....	Cast Iron
Headstock Gears.....	Flame-Hardened Steel
Bed.....	Induction-Hardened Cast Iron
Body.....	Cast Iron
Stand.....	Cast Iron
Paint.....	Urethane

### Other

Country Of Origin .....	Taiwan (Some Components Made in USA & Germany)
Warranty .....	1 Year
Serial Number Location .....	ID Label on Rear Side of Left Stand
Customer Assembly & Setup Time .....	Approximately 1 Hour
Sound Rating .....	69 dB

## **Features**

- Allen Bradley Electrical Components
- Signature South Bend 3 V-Way Bed
- Safety Chuck Guard with Micro-Switch Shut-Off
- Meehanite Castings with Induction-Hardened Ways
- Halogen Work Light
- 4-Way Tool Post
- Complete Coolant System
- Micrometer Carriage Stop
- Threading Dial Indicator
- FAG German Spindle Bearings
- Full Length Splash Guard
- Front Removable Sliding Chip Tray
- Yaskawa G7A4011 Inverter
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Pressurized Headstock Lubrication System with Oil Pressure Safety Switch
- Dial Controlled, Variable Spindle Speeds with Digital Read Out
- Jog Button and Emergency Stop
- Foot Brake
- Fagor DRO

## **Included Accessories**

- 12" 3-Jaw Scroll Chuck Mounted to 12" D1-8 Back Plate
- 14" 4-Jaw Independent Chuck D1-8
- 14" Faceplate D1-8
- Follow Rest
- Steady Rest with Ball Bearing Tips
- MT#7 to MT#5 Spindle Sleeve
- Two MT#5 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- Ten Leveling Pads
- Service Tools
- Tool Box
- USA Written Manual