



# Model SB1059F

## 18" x 40" Turn-Nado® EVS Lathe with DRO

**Product Dimensions**

Weight..... 4400 lbs.  
 Width (side-to-side) x Depth (front-to-back) x Height..... 90-3/4 x 27 x 62-1/4 in.  
 Footprint (Length x Width)..... 102-1/2 x 71-3/4 in.

**Shipping Dimensions**

Type..... Wood Crate  
 Content..... Machine  
 Weight..... 4708 lbs.  
 Length x Width x Height..... 100 x 45 x 73 in.

**Electrical**

Power Requirement..... 440V, 3-Phase, 60 Hz  
 Full-Load Current Rating..... 16.83A  
 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..... 10 HP  
 Voltage..... 440V  
 Phase..... 3-Phase  
 Amps..... 16A  
 Speed..... 0 – 3000 RPM  
 Cycle..... 60 Hz  
 Number of Speeds..... Variable  
 Power Transfer ..... V-Belt & Gear  
 Bearings..... Shielded & 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 & 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 & Permanently Sealed

**Main Specifications**

**Operation Info**

Swing Over Bed..... 18.11 in.  
Distance Between Centers..... 40 in.  
Swing Over Cross Slide..... 11.02 in.  
Swing Over Saddle..... 18 in.  
Swing Over Gap..... 27.95 in.  
Maximum Tool Bit Size..... 1 in.  
Compound Travel..... 5.39 in.  
Carriage Travel..... 39 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 – 0.0400 in./rev.
Number of Cross Feeds.....	15
Range of Cross Feeds.....	0.00075 – 0.0200 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.....	65.71 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.....	45.08 in.
Height With Leveling Jacks.....	46-1/4 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

ISO 9001 Factory .....	No
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 .....	1 Hour
Sound Rating .....	69 dB

## **Features**

Allen Bradley Electrical Components  
Meehanite Casting, Signature South Bend 3 V-Way Bed  
Safety Chuck Guard with Micro-Switch Shut-Off  
Halogen Work Light  
4-Way Tool Post  
Complete Coolant System  
Micrometer Carriage Stop  
Threading Dial Indicator  
FAG or SKF 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  
Fagor DRO  
Foot Brake

## **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 Roller Bearing Tips  
#7 to #5 Morse Taper Spindle Sleeve  
Two Morse Taper #5 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)  
Eight Leveling Pads  
Service Tools  
Tool Box  
USA Written Manual