



Model SB1042PF

21" x 60" Turn-Nado® EVS Lathe with DRO

Product Dimensions

Weight..... 5830 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 110-1/2 x 27 x 62-1/4 in.
 Footprint (Length x Width)..... 122 x 71-3/4 in.

Shipping Dimensions

Type..... Machine
 Content..... Wood Slat Crate
 Weight..... 6182 lbs.
 Length x Width x Height..... 121 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..... 1725 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..... 60 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..... 59 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 Camlock
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.....	85.39 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.....	15/16 in.
Floor to Center Height.....	46-11/16 in.
Height With Leveling Jacks.....	48 in.

Construction

Headstock.....	Cast Iron
Headstock Gears.....	Flame Hardened Steel
Bed.....	Meehanite Castings with Induction Hardened Ways
Stand.....	Cast Iron
Paint.....	Urethane

Other

Country Of Origin	Taiwan (Some Components Made in USA and 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
- 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
- #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