



Product Specifications

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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.....	7202 lbs.
Length x Width x Height.....	183 x 45 x 73 in.

Electrical

Power Requirement.....	440V, 3-Phase, 60 Hz
Prewired Voltage.....	440V
Full-Load Current Rating.....	18.83A
Minimum Circuit Size.....	30A
Connection Type.....	Permanent (Hardwire to Shutoff Switch)
Switch Type.....	Control Panel w/Magnetic Switch Protection
Inverter (VFD) Type.....	Yaskawa G7A4011
Inverter (VFD) Size.....	10 HP

Motors

Main

Horsepower.....	12.5 HP
Phase.....	3-Phase
Amps.....	18A
Speed.....	0 – 3000 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.....	0.23A
Speed.....	3450 RPM
Type.....	TEFC Induction (Class F)
Power Transfer	Direct Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

Oil Pump

Horsepower.....	1/4 HP
Phase.....	3-Phase
Amps.....	0.6A
Speed.....	1720 RPM
Type.....	TEFC Induction
Power Transfer	Direct Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

Main Specifications

Operation Info

Swing Over Bed.....	21 in.
Distance Between Centers.....	120 in.
Max Weight Between Centers.....	1430 lbs.
Swing Over Cross Slide.....	14 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 Camlock
Spindle Bearings.....	Tapered Roller
Spindle Length.....	26-7/8 in.
Spindle Length with 3-Jaw Chuck.....	34-1/2 in.
Spindle Length with 4-Jaw Chuck.....	32-3/8 in.
Spindle Length with Faceplate.....	29-1/8 in.

Tailstock Info

Tailstock Quill Travel.....	6-1/2 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 – 0.02000 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 – 14.0 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.....	13.58 in.
Carriage Leadscrew Diameter.....	1-3/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	145-7/16 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.....	46.65 in.
Height With Leveling Jacks.....	48 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.....	15.9 qt.
Headstock Fluid Type.....	ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity.....	3.2 qt.
Gearbox Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity.....	2.1 qt.
Apron Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity.....	25.4 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	69 dB
ISO 9001 Factory	No
Certified by a Nationally Recognized Testing Laboratory (NRTL)	No

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
SKF 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