



MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL G0670 16" X 40" ELECTRONIC VARIABLE-SPEED (EVS) LATHE

Product Dimensions:

Weight..... 3080 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 82 x 37-3/4 x 57-1/2 in.
Footprint (Length x Width)..... 82 x 20-1/2 in.

Shipping Dimensions:

Type..... Wood Slat Crate
Content..... Machine
Weight..... 3694 lbs.
Length x Width x Height..... 43 x 90 x 68 in.
Must Ship Upright..... Yes

Electrical:

Power Requirement..... 220V, 3-Phase, 60 Hz
Prewired Voltage..... 220V
Full-Load Current Rating..... 15.7A
Minimum Circuit Size..... 20A
Connection Type..... Cord & Plug
Power Cord Included..... Yes
Power Cord Length..... 5 ft.
Power Cord Gauge..... 12 AWG
Plug Included..... No
Recommended Plug Type..... 15-20
Switch Type..... Magnetic Switch w/Overload Protection
Inverter (VFD) Type..... Yaskawa G7A23P7
Inverter (VFD) Size..... 5 HP
Recommended Phase Converter..... T21168

Motors:

Main

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

Oil Pump

Horsepower.....	1/4 HP
Phase.....	3-Phase
Amps.....	1.4A
Speed.....	1725 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.....	16 in.
Distance Between Centers.....	40 in.
Max Weight Between Centers.....	660 lbs.
Swing Over Cross Slide.....	10-3/8 in.
Swing Over Saddle.....	15-3/8 in.
Swing Over Gap.....	22.95 in.
Maximum Tool Bit Size.....	5/8 in.
Compound Travel.....	5-1/8 in.
Carriage Travel.....	40 in.
Cross Slide Travel.....	8-3/16 in.

Headstock Info

Spindle Bore.....	2.0625 in.
Spindle Taper.....	MT#6
Number of Spindle Speeds.....	Variable
Spindle Speeds.....	20 – 2500 RPM
Spindle Type.....	D1-6 Camlock
Spindle Bearings.....	Tapered Roller
Spindle Length.....	24-1/4 in.
Spindle Length with 3-Jaw Chuck.....	30-7/8 in.
Spindle Length with 4-Jaw Chuck.....	28-3/4 in.
Spindle Length with Faceplate.....	26-1/4 in.

Tailstock Info

Tailstock Quill Travel.....	6 in.
Tailstock Taper.....	MT#4
Tailstock Barrel Diameter.....	2.047 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.....	0.0010 – 0.0034 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.....	10-1/4 in.
Carriage Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	61-1/2 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.....	44-1/4 in.
Height With Leveling Jacks.....	46-3/4 in.

Construction

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

Fluid Capacities

Headstock Capacity.....	7.9 qt.
Headstock Fluid Type.....	ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity.....	1 qt.
Gearbox Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity.....	1.1 qt.
Apron Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity.....	11.1 qt.

Other Specifications:

Country of Origin	Taiwan
Warranty	1 Year
Approximate Assembly & Setup Time	2 Hours
Serial Number Location	ID Label on Front of Chip Tray
ISO 9001 Factory	No
Certified by a Nationally Recognized Testing Laboratory (NRTL)	No

Features:

- Dial Controlled, Variable Spindle Speeds w/Digital Read Out
- Constant Surface Speed Function
- Precision Hardened and Ground Bed V-Ways made of Meehanite Casting
- Totally Enclosed Universal Gearbox for Cutting of Inch, Metric, Modular & Diametral Threads
- Deep Pull-Out Chip Tray
- Pressurized Lubrication System for Headstock Gears & Bearings
- Powered Coolant System w/4-3/4 Gallon Tank
- Full Length Splash Guard
- Halogen Work Light

Accessories Included:

- #4 to #6 Morse Taper Spindle Nose Sleeve
- 10" 4-Jaw Chuck
- 12" Face Plate
- 9" 3-Jaw Chuck
- Centers, Center Sleeve, Service Tools, Manual, and Toolbox
- Dual Inch/Metric Dials
- Follow Rest
- Jog Button & Emergency Stop
- Steady Rest