



Model SB1028

10" X 54" Chipmaster® 430 EVS Variable-Speed

Product Dimensions

Weight..... 3000 lbs
 Width (side-to-side) x Depth (front-to-back) x Height..... 66 x 77 x 89 in.
 Footprint (Length x Width)..... 41-1/2 x 24-1/2 in.

Shipping Dimensions

Type..... Wood Crate
 Content..... Machine
 Weight..... 3350 lbs.
 Length x Width x Height..... 66 x 61 x 80 in.

Electrical

Power Requirement..... 220V, Single-Phase, 60 Hz
 Minimum Circuit Size..... 20A
 Inverter Type..... Yaskawa V1000
 Inverter Size..... 7-1/3 HP (5.5 KW)
 Switch..... ON/OFF Power Switch
 Switch Voltage..... 220V
 Plug Included..... No
 Recommended Plug/Outlet Type..... NEMA 6-20

Motors

Table Elevation Motor

Type..... TEFC Induction
 Horsepower..... 1/4 HP
 Voltage..... 220V
 Phase..... Single-Phase
 Amps..... 1.95A
 Speed..... 170 RPM
 Cycle..... 60 Hz
 Power Transfer Gearbox Drive
 Bearings..... Lubricated & Shielded

Spindle Motor

Type..... AEVF Induction
 Horsepower..... 5 HP
 Voltage..... 220V
 Phase..... 3-Phase
 Amps..... 14A
 Speed..... 1725 RPM
 Cycle..... 60 Hz
 Power Transfer Belt Drive
 Bearings..... Lubricated & Shielded

Longitudinal Power Feed Motor

Type.....	Universal
Horsepower.....	90W
Voltage.....	110V
Phase.....	Single-Phase
Amps.....	1A
Speed.....	0 —160 RPM
Cycle.....	60 Hz
Number of Speeds.....	Variable
Power Transfer	Gear Drive
Bearings.....	Lubricated & Shielded

Coolant Pump Motor

Type.....	Induction
Horsepower.....	1/8 HP
Voltage.....	220V
Phase.....	Single-Phase
Amps.....	0.45A
Speed.....	3450 RPM
Cycle.....	60 Hz
Power Transfer	Direct Drive
Bearings.....	Lubricated & Shielded

Main Specifications

Operation Info

Spindle Travel.....	5 in.
Longitudinal Table Travel.....	35 in.
Cross Table Travel.....	16 in.
Vertical Table Travel.....	14-1/4 in.
Ram Travel.....	19-1/2 in.
Head Tilt (Left-to-Right).....	90 Left, 90 Right deg.
Head Tilt (Front-to-Back).....	45 Forward, 45 Back deg.
Turret or Column Swivel (Left and Right).....	360 deg.
Distance Spindle to Column.....	6-1/2 — 26 in.
Distance Spindle to Table.....	2-1/4 — 16-1/2 in.
Number of Vertical Spindle Speeds.....	Variable
Range of Vertical Spindle Speeds.....	60 — 5000 RPM
Number of Longitudinal Feeds.....	Variable

Table Info

Table Length.....	54 in.
Table Width.....	10 in.
Table Thickness.....	3 in.
Number of T-Slots.....	3
T-Slots Width.....	5/8 in.
T-Slots Height.....	1-1/16 in.
T-Slots Centers.....	2-1/2 in.
Stud Size.....	1/2 in.

Spindle Info

Spindle Taper.....	R-8
Spindle Size.....	46 mm
End Milling Capacity.....	1 in.
Face Milling Capacity.....	4 in.
Drawbar Diameter.....	7/16 in.
Drawbar TPI.....	18 TPI
Drawbar Length.....	5-3/8 Head, 18 Shaft 23-3/8 Total (In.)
Spindle Bearings.....	Angular Contact, P4 (ABEC-7)

Construction

Spindle Housing/Quill.....	Chromed Steel
Table.....	Hardened & Precision-Ground Cast Iron
Head.....	Meehanite Cast Iron
Column.....	Meehanite Cast Iron
Paint.....	Urethane

Other

Country Of Origin	Taiwan
Warranty	1 Year
Serial Number Location	Machine ID Label on Right Side of Belt Housing
Customer Assembly & Setup Time	Less than 1 Hour

Features

- Allen-Bradley Electronic Components
- High-Quality, Low-Vibration AEVF Spindle Motor
- Built-In Single-Phase to 3-Phase Yaskawa Power Inverter
- P4 (ABEC-7) High-Quality Angular Contact Spindle Bearings
- X & Y Leadscrew Nuts Double-Bronzed for Ultra-Smooth Movement w/Minimal Backlash
- Lever-Action One-Shot Pump Way Lubrication System
- Control Panel Mounted on Adjustable Arm
- Complete Built-In Coolant System
- Table Elevation Power Feed (Z-Axis)
- Variable Speed Longitudinal Power Feed (X-Axis)
- Auto-Downfeed with Micro-Adjustable Stop
- Hardened and Precision-Ground Table Surface
- Chromed Steel Quill
- Heavy-Duty Spindle Brake