



# Model SB1038

## 16" x 40" EVS Toolroom Lathe

**Product Dimensions:**

Weight ..... 3080 lbs.  
 Length/Width/Height ..... 86" x 33" x 61"  
 Foot Print (Length/Width) ..... 82" x 19½"

**Shipping Dimensions:**

Type ..... Wood Slat Crate  
 Weight ..... 3344 lbs.  
 Length/Width/Height ..... 94" x 45" x 69"

**Electrical:**

Required Power Source ..... 440V, 3-Phase, 60 Hz  
 Inverter Type ..... Yaskawa G7A25P5  
 Switch ..... Magnetic with Thermal Protection  
 Switch Voltage ..... 440V  
 Recommended Circuit Size ..... 15 Amp  
 Plug Included ..... No  
 Recommended Plug Type ..... Hardwire to Locking Disconnect Switch

**Motors:**

**Main**

Type ..... TEFC Induction  
 Horsepower ..... 7½ HP  
 Voltage ..... 440V  
 Phase ..... 3-Phase  
 Amps ..... 10A  
 Speed ..... 0–4500 RPM  
 Cycle ..... 60 Hz  
 Number Of Speeds ..... Variable  
 Power Transfer ..... V-Belt & Gear  
 Bearings ..... Shielded and Permanently Sealed

**Lubrication**

Type ..... TEFC Induction  
 Horsepower ..... ¼ 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

Type .....	TEFC Induction
Horsepower.....	1/8 HP
Voltage.....	440V
Phase .....	3-Phase
Amps .....	0.15A
Speed.....	3450 RPM
Cycle .....	60 Hz
Number of Speeds.....	1
Power Transfer.....	Direct Drive
Bearings.....	Shielded and Permanently Sealed

## Main Specifications:

### Operation Information

Swing Over Bed .....	16.14"
Distance Between Centers .....	40"
Swing Over Cross Slide .....	10.375"
Swing Over Saddle.....	13.54"
Swing Over Gap .....	22.95"
Max Tool Bit Size.....	0.75"
Spindle Nose to Gap .....	6.5"
Compound Slide Travel .....	5.1"
Carriage Travel.....	38.58"
Cross Slide Travel.....	9.25"

### Headstock Information

Spindle Bore .....	2.0625"
Spindle Taper.....	MT#6
Number of Spindle Speeds .....	Variable
Range of Spindle Speeds .....	20–2500 RPM
Spindle Type.....	D1-6 Camlock
Spindle Bearings.....	NSK or NTN Tapered Roller
Spindle Length .....	24.24"
Spindle Length with 3-Jaw Chuck .....	30.31"
Spindle Length with 4-Jaw Chuck .....	34.08"

### Tailstock Info

Tailstock Travel .....	6"
Tailstock Taper .....	MT#4
Tailstock Barrel Diameter.....	2.047"

### Threading Info

No of Inch Threads .....	45
Range of Inch Threads.....	2–72 TPI
No of Longitudinal Feeds .....	17
Range of Longitudinal Feeds .....	0.002"–0.067"
No of Cross Feeds .....	17
Range of Cross Feeds.....	0.001"–0.034"
No of Metric Threads.....	39
Range of Metric Threads .....	0.2–14mm
No of Diametral Pitches .....	21
Range of Diametral Pitches .....	8–44 DP
No of Modular Pitches .....	18
Range of Modular Pitches .....	0.3–3.5 MP

## Dimensions

Bed Width.....	10¼"
Leadscrew TPI .....	4
Leadscrew Length.....	63.58"
Steady Rest Capacity.....	5/16"–45/16"
Follow Rest Capacity .....	5/8"–31/8"
Faceplate Size .....	12"
Leadscrew Diameter.....	11/8"
Feed Rod Diameter .....	3/4"
Floor To Center Height .....	43½"
Height With Leveling Jacks.....	44½"

## Construction

Base Construction.....	Cast Iron
Headstock Construction .....	Cast Iron
Headstock Gears Construction .....	Flame Hardened Steel
Bed Construction .....	Induction Hardened and Ground Cast Iron
Stand Construction.....	Cast Iron

## Other Specifications:

Country Of Origin .....	Taiwan (Some Components Made in USA and Japan)
Warranty.....	1 Year
Serial Number Location.....	ID Label on Rear Side of Left Stand
Customer Setup and Cleaning Time .....	Approximately 2 Hours

## 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
- NSK or NTN Japanese Spindle Bearings
- Full Length Splash Guard
- Front Removable Sliding Chip Tray
- Yaskawa G7A25P5 Inverter
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Pressurized Lubrication System for Headstock Gears and Bearings
- Dial Controlled, Variable Spindle Speeds with Digital Read Out
- Jog Button and Emergency Stop

## Accessories Included:

- 9" 3-Jaw Scroll Chuck Mounted to 9" D1-6 Back Plate
- 10" 4-Jaw Independent Chuck D1-6
- 12" Faceplate D1-6
- Follow Rest
- Steady Rest with Roller Bearing Tips
- #6 to #4 Morse Taper Spindle Sleeve
- Two Morse Taper #4 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- Eight Leveling Pads, Service Tools, Tool Box, and USA Written Manual

## Optional Accessories:

- SB1269 Taper Attachment (Unmounted)
- SB1268 Collet Attachment 5-C, Quick Change (Unmounted)
- SB1267 10" Backplate D1-6
- SB1239 Hi-Performance Morse Taper #4 Live Center
- SB1279 Precision 5-C Collets, Set of Eight (1/8"-1", in 1/8" Increments)
- SB1280 Precision 5-C Collets, Set of 15 (1/8"-1", in 1/16" Increments)