

# SUMMIT MACHINE TOOL

PRODUCT CATALOG





# ***SUMMIT MACHINE TOOL LLC***

*Summit Machine Tool LLC has been delivering quality machines, critical spare parts and exceptional service to the most innovative machine shops, small and large, and the world's leading manufacturers since 1955. Our machines are sound capital investments that can help control costs, help extend the life of manufacturing equipment and meet thousands of production demands.*

*At Summit, we have set the highest standards in the machine tool industry. Every machine in our product line includes a vast array of features, accessories and included options as "standard", making Summit® machines the best value in the market. In addition to superior standards, we support all of our machines with excellent customer service, technical support and replacement parts.*

*Because we understand the critical role your machine tools play in your business, we deliver solutions that keep your organization operational, productive and profitable. For over 60 years, we have formed strategic partnerships with global manufacturers and specialty machine shops alike. That is why Summit products are equally trusted by engineers and craftsmen: we offer superior quality machines, extensive technical, mechanical and real-world expertise, a multi-million dollar inventory of machines and parts, as well as excellent after sale support. No wonder Summit is the most trusted name in the industry.*

# WHY CHOOSE SUMMIT?

*Exceptional Quality & After Sale Support.*

*Large Inventory for Quick Shipment.*

*Unbeatable Value.*

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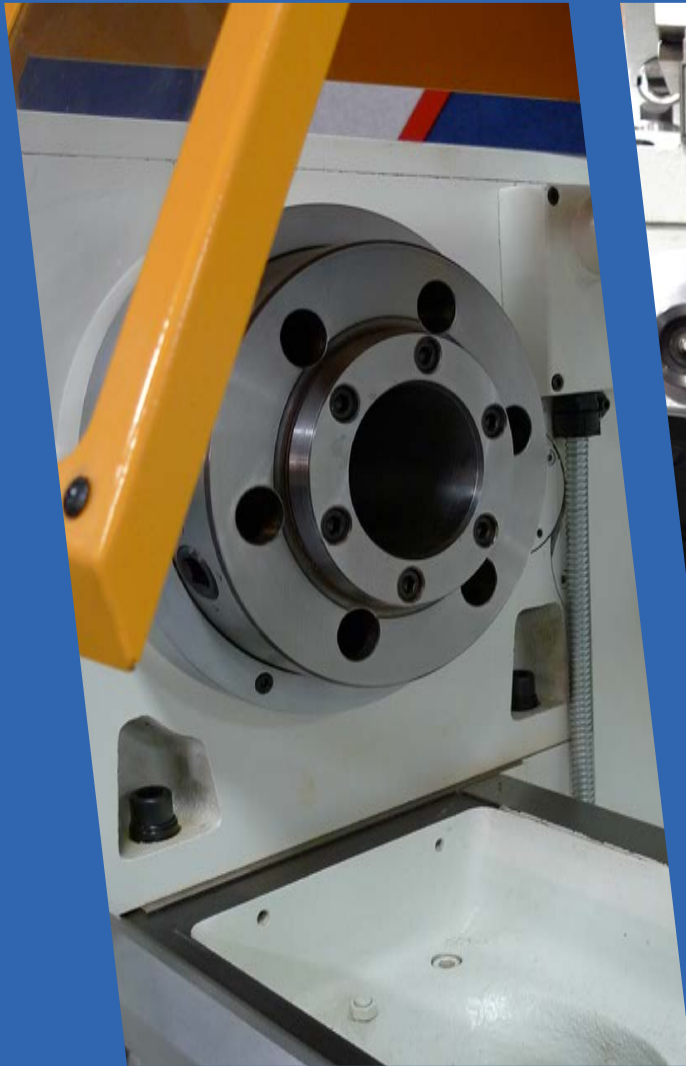
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# MANUAL LATHES

*Summit® Manual Lathes are a great investment. They are affordable, rugged, reliable and easy to operate. All Summit Lathes are manufactured to rigid ISO specifications, include a vast array of features and accessories as “standard” and offer a variety of built-in safety features. Constructed from closed grain cast iron, Summit Lathes are built to last and are known for consistent performance and durability even under the most demanding work conditions.*







## STANDARD FEATURES

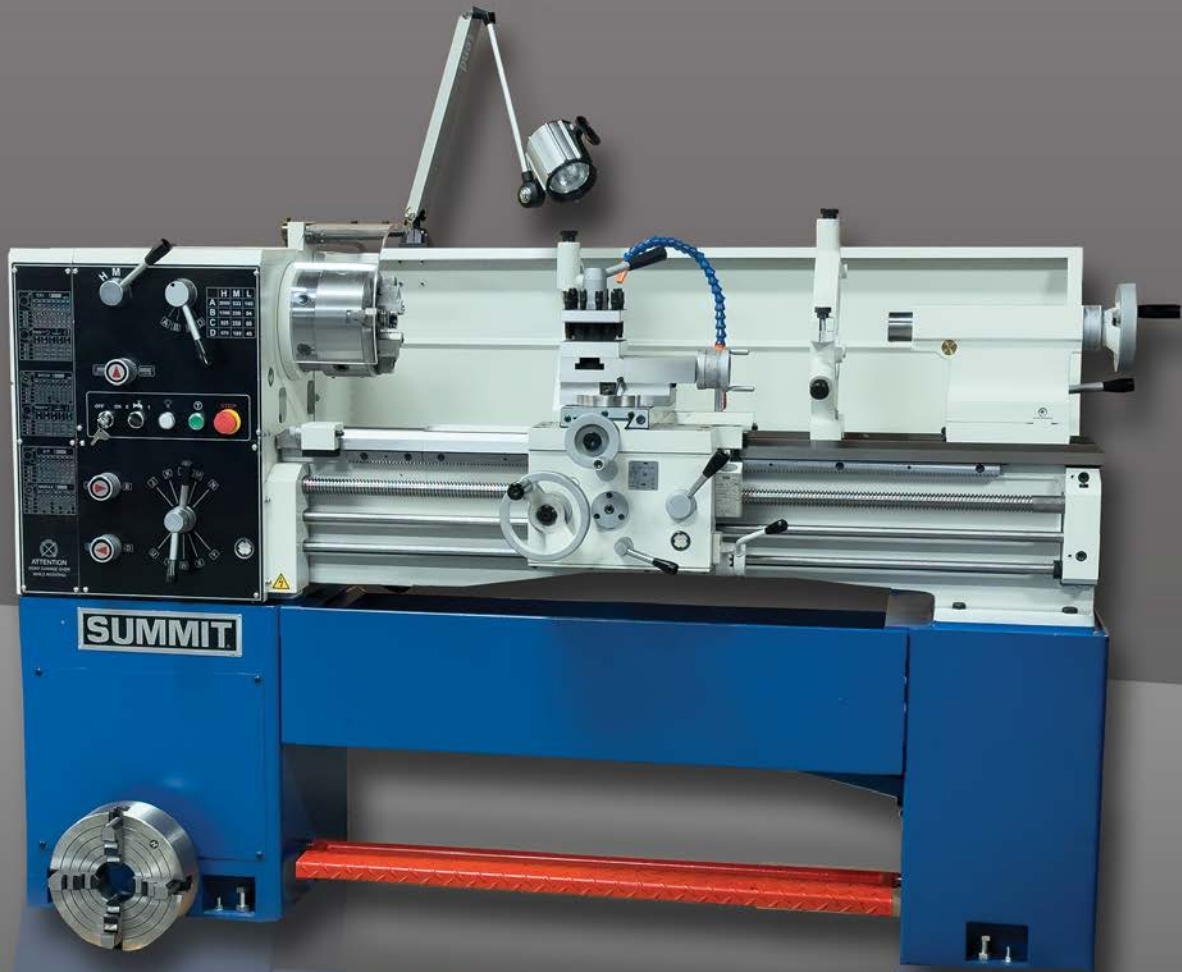
- Inch and Metric Threading
- Hardened & Ground Bed Ways
- Removable Gap
- T-Slotted Compound
- Dual Voltage - 220/440 Volt  
3 Phase / 60 Hz

## INCLUDED ACCESSORIES

- 3 & 4 Jaw Chucks
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 14" D LATHES

SPECIFICATIONS	14x40 D / 14x40 D VS STANDARD / METRIC
CENTER DISTANCE	40" / 1015mm
SWING OVER BED	14" / 355mm
SWING OVER CROSS SLIDE	8.75" / 225mm
SWING OVER GAP	20.75" / 525mm
CROSS SLIDE TRAVEL	7.5" / 190mm
BED WIDTH	9" / 230mm
SPINDLE SPEED, (NUMBER) RANGE	(12) 50-2000 RPM / VS 36 - 300-300-2200 RPM
SPINDLE BORE	2" / 50mm
SPINDLE NOSE	D1-5
THREADS (NUMBER) RANGE	(32) 4 - 56 TPI
TAILSTOCK CENTER	3 MT
DIAMETER OF TAILSTOCK SPINDLE	1.562" / 40mm
MAIN MOTOR	5 HP / 3.75kw
SHIPPING WEIGHT	1,804 lbs / 820kg



**SUMMIT**

**TIMMUS**

## STANDARD FEATURES

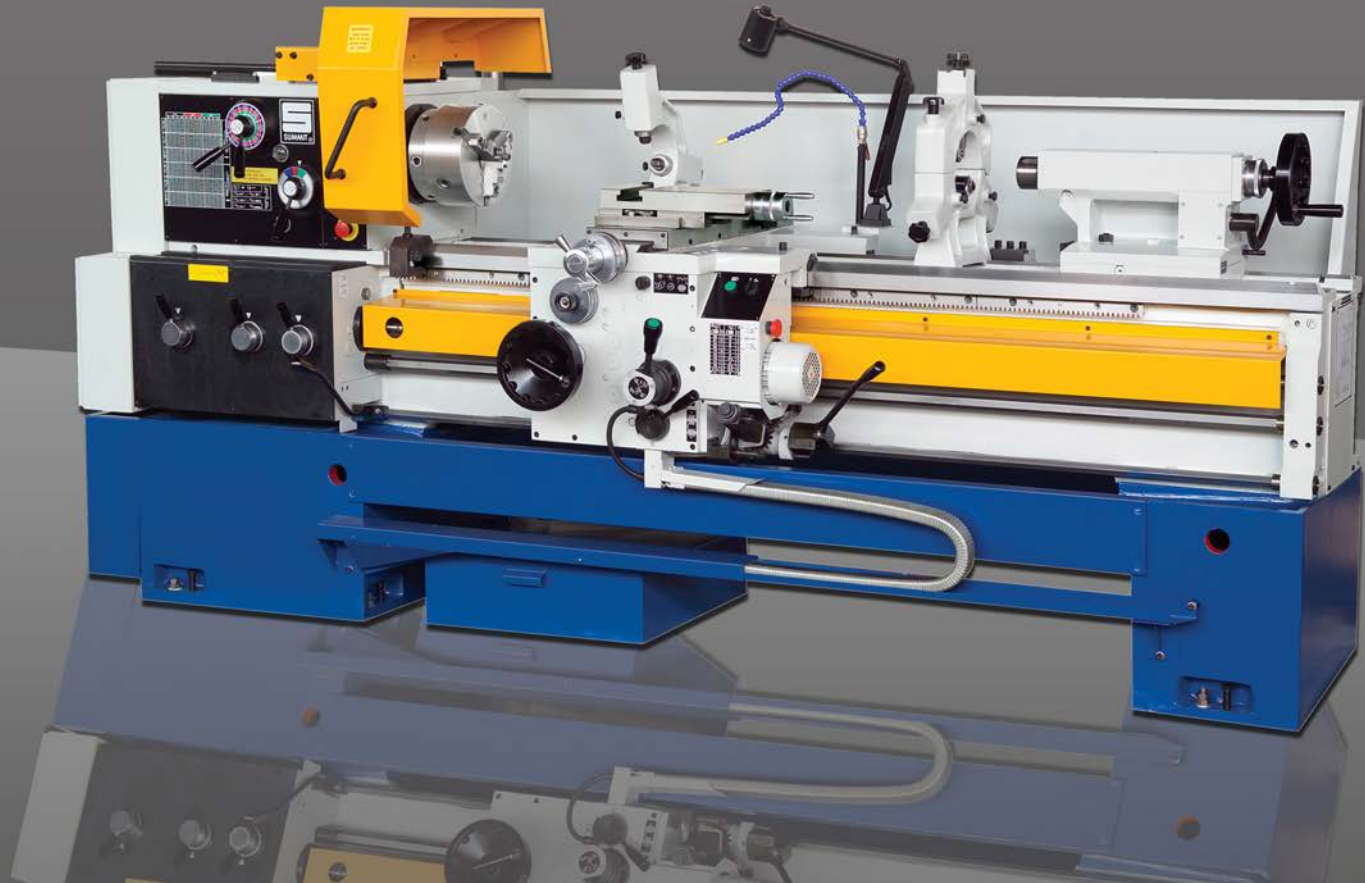
- Inch and Metric Threading
- Hardened & Ground Bed Ways
- Removable Gap
- T-Slotted Compound
- Dual Voltage - 220/440 Volt  
3 Phase / 60 Hz

## INCLUDED ACCESSORIES

- 3 & 4 Jaw Chucks
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 16" L LATHES

SPECIFICATIONS	16" L STANDARD / METRIC
CENTER DISTANCE	40" / 1016mm 60"/1524mm
SWING OVER BED	16" / 406mm
SWING OVER CROSS SLIDE	10" / 225mm
SWING OVER GAP	21.75" / 552mm
CROSS SLIDE TRAVEL	8" / 204mm
BED WIDTH	10" / 255mm
SPINDLE SPEED, (NUMBER) RANGE	(12) 46 - 2000 RPM
SPINDLE BORE	2.125" / 54mm
SPINDLE NOSE	D1-6
THREADS (NUMBER) RANGE	(32) 4 - 56 TPI
TAILSTOCK CENTER	4 MT
DIAMETER OF TAILSTOCK SPINDLE	2" / 50mm
MAIN MOTOR	5 HP / 3.75kw
SHIPPING WEIGHT	2,112 lbs / 2,508 lbs



## STANDARD FEATURES

- Inch and Metric Threading
- Hardened & Ground Bed Ways
- T-Slotted Compound
- All Cast Iron Construction
- Clutched Headstock
- Dual Voltage - 220/440 Volt 3 Phase / 60 Hz
- Two Speed Tailstock
- 4-Way Rapid Traverse Joystick Control

## INCLUDED ACCESSORIES

- 3 Jaw Chuck
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 16" HD LATHES

SPECIFICATIONS	STANDARD / METRIC		
CENTER DISTANCE	40" / 1015mm	60" / 1524mm	80" / 2032mm
SWING OVER BED	18" / 460mm		
SWING OVER CROSS SLIDE	9 3/8" / 240mm		
CROSS SLIDE TRAVEL	11 3/8" / 290mm		
BED WIDTH	15 3/4" / 400mm		
SPINDLE SPEED, (NUMBER) RANGE	(21) 20 - 2000 RPM		
SPINDLE BORE	3" / 75mm		
SPINDLE NOSE	D1-8		
THREADS (NUMBER) RANGE	(64) .25 - 60 TPI		
TAILSTOCK CENTER	5 MT		
DIAMETER OF TAILSTOCK SPINDLE	3 1/2" / 90mm		
MAIN MOTOR	10 HP		
SHIPPING WEIGHT	6,200 lbs	6,600 lbs	7,100 lbs



## INCLUDED ACCESSORIES

- 3 & 4 Jaw Chuck
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

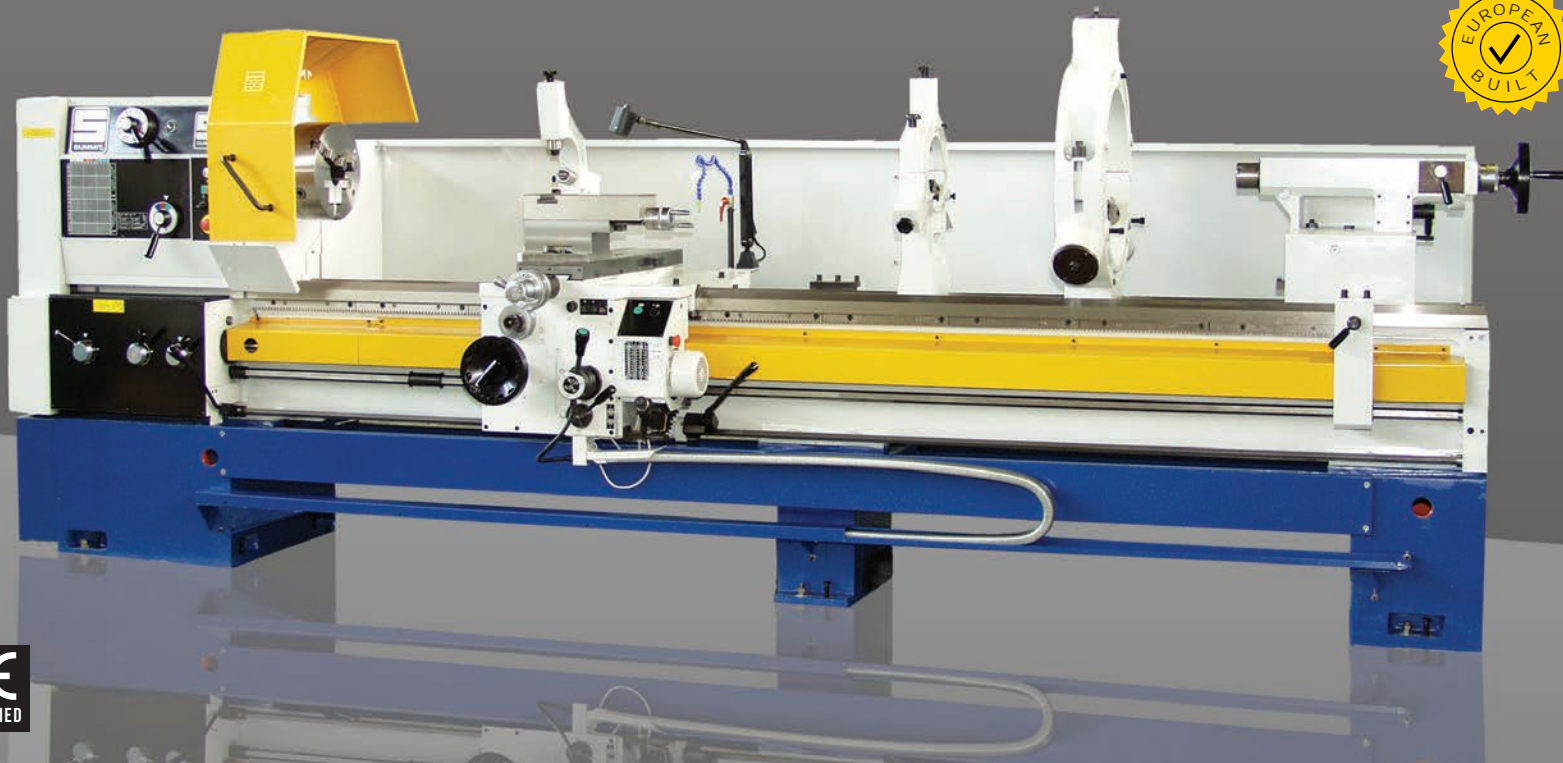
## STANDARD FEATURES

- Inch And Metric Threading
- Hardened & Ground Bed Ways
- Removable Gap
- T-Slotted Compound
- All Cast Iron Construction
- Clutched Headstock
- Dual Voltage - 220/440 Volt  
3 Phase / 60 Hz
- Two Speed Tailstock
- 4-Way Rapid Traverse

# 18"-20"-22" MANUAL LATHES

SPECIFICATIONS	18-3"			20-4"			22-4"			
	STANDARD / METRIC			STANDARD / METRIC			STANDARD / METRIC			
CENTER DISTANCE	40" / 1015mm	60" / 1524mm	80" / 2032mm	40" / 1015mm	60" / 1524mm	80" / 2032mm	60" / 1524mm	80" / 2032mm	120" / 3048mm	160" / 4064mm
SWING OVER BED	18 1/4" / 460mm			20" / 510mm			22" / 560mm			
SWING OVER CROSS SLIDE	11 1/4" / 285mm			13 1/4" / 335mm			12 1/2" / 320mm			
SWING OVER GAP	28" / 710mm			30" / 760mm			32" / 810mm			
CROSS SLIDE TRAVEL	11 1/2" / 290mm			11 1/2" / 290mm			14 3/4" / 100mm			
BED WIDTH	13" / 75mm			13" / 75mm			16" / 405mm			
SPINDLE SPEED, (NO.) RANGE	(12) 32 - 1500 RPM			(12) 32 - 1500 RPM			(12) 35 - 1250 RPM			
SPINDLE BORE	3 1/8" / 80mm			4" / 100mm			4 1/8" / 105mm			
SPINDLE NOSE	D1-8			D1-8			D1-8			
THREADS (NUMBER) RANGE	(45) 2 - 72 TPI			(45) 2 - 72 TPI			(36) 2 - 28 TPI			
TAILSTOCK CENTER	5 MT			5 MT			5 MT			
TAILSTOCK SPINDLE DIAMETER	3" / 75mm			3" / 75mm			3" / 75mm			
MAIN MOTOR	10 HP			10 HP			15 HP			
SHIPPING WEIGHT (POUNDS)	4,730	5,390	6,600	4,930	5,590	6,800	6,380	7,150	8,800	10,670





## STANDARD FEATURES

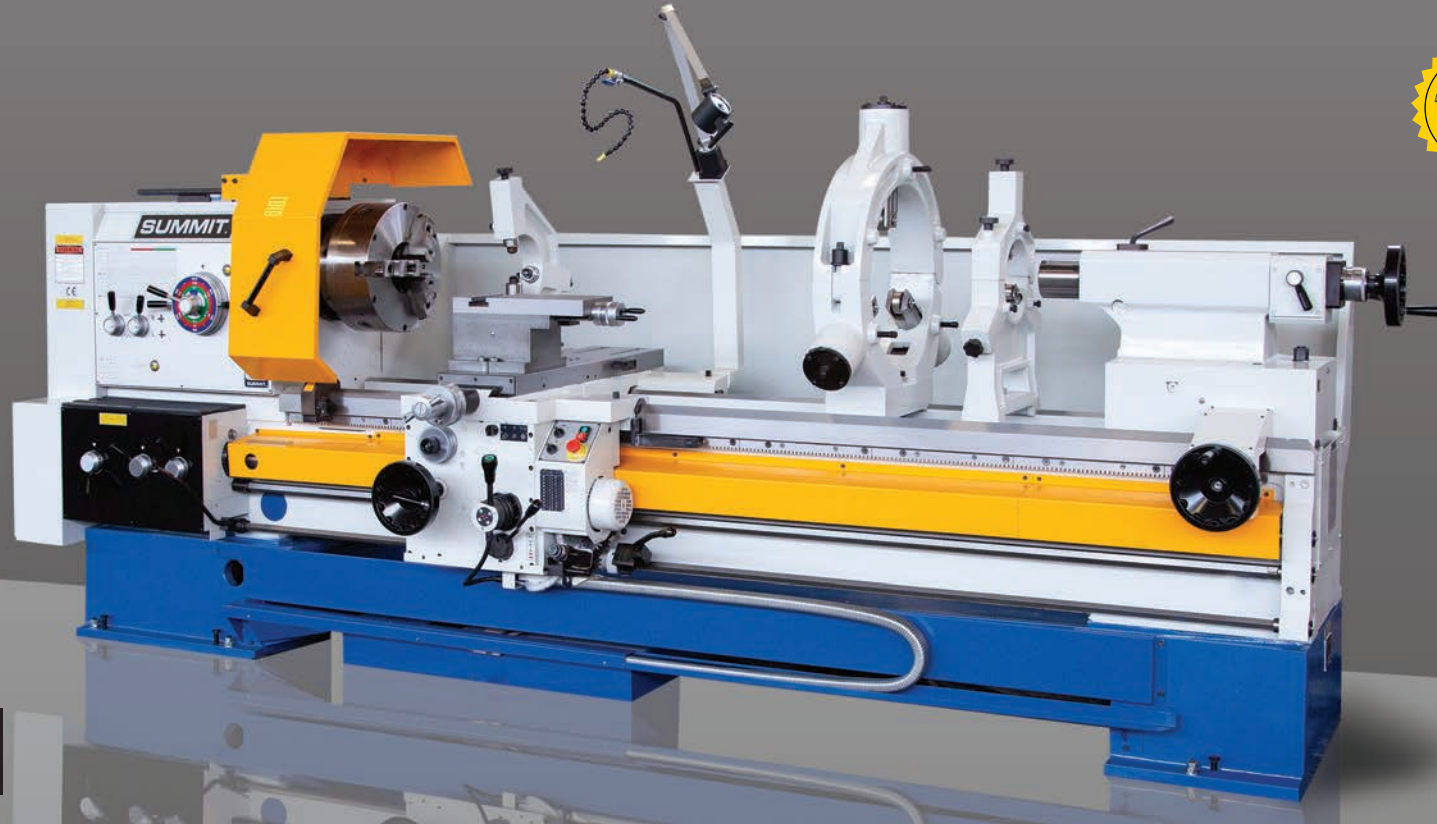
- Inch and Metric Threading
- Hardened & Ground Bed Ways
- T-Slotted Compound
- All Cast Iron Construction
- Clutched Headstock (non-VS only)
- Dual Voltage - 220/440 Volt  
3 Phase / 60 Hz
- Two Speed Tailstock
- 4-Way Rapid Traverse Joystick  
Control

## INCLUDED ACCESSORIES

- 3 Jaw Chuck
- Steady Rest (2)
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 20"-24"-28" SERIES MANUAL LATHES

SPECIFICATIONS	20-4" Inch/mm		20-4" VS Inch/mm		24-4" Inch/mm		24-4" VS Inch/mm		28-4" Inch/mm		28-4" VS Inch/mm	
CENTER DISTANCE	60" / 80" / 120" / 160" / 200"				60" / 80" / 120" / 160" / 200"				60" / 80" / 120" / 160" / 200"			
SWING OVER BED	20 1/4" / 100mm				25" / 635mm				28 1/2" / 725mm			
SWING OVER CROSS SLIDE	11 7/8" / 300mm				17" / 430mm				19 5/8" / 500mm			
CROSS SLIDE TRAVEL	11 3/8" / 290mm				12 1/8" / 310mm				15 1/4" / 100mm			
BED WIDTH	15 3/4" / 400mm				15 3/4" / 400mm				15 3/4" / 400mm			
SPINDLE SPEED, (NUMBER) RANGE	(12) 11.5 - 1400 RPM		(inf. var.) 16 - 1400 RPM		(21) 20 - 1250 RPM		(inf. var.) 16 - 1400 RPM		(21) 20 - 1250 RPM		(inf. var.) 16 - 1400 RPM	
SPINDLE BORE	4 1/8" / 105mm				4 1/8" / 105mm				4 1/8" / 105mm			
SPINDLE NOSE	D1-8				D1-8				D1-8			
THREADS (NUMBER) RANGE	(64) .25 - 60 TPI				(64) .25 - 60 TPI				(64) .25 - 60 TPI			
TAILSTOCK CENTER	5 MT				5 MT				5 MT			
DIAMETER OF TAILSTOCK SPINDLE	3.5" / 50mm				3.5" / 50mm				3.5" / 50mm			
MAIN MOTOR	10 HP		15 HP		15 HP				15 HP			
SHIPPING WEIGHT	7,200 lbs	7,700 lbs	8,600 lbs	9,500 lbs	7,600 lbs	8,100 lbs	9,000 lbs	9,900 lbs	7,800 lbs	8,300 lbs	9,200 lbs	10,100 lbs



## STANDARD FEATURES

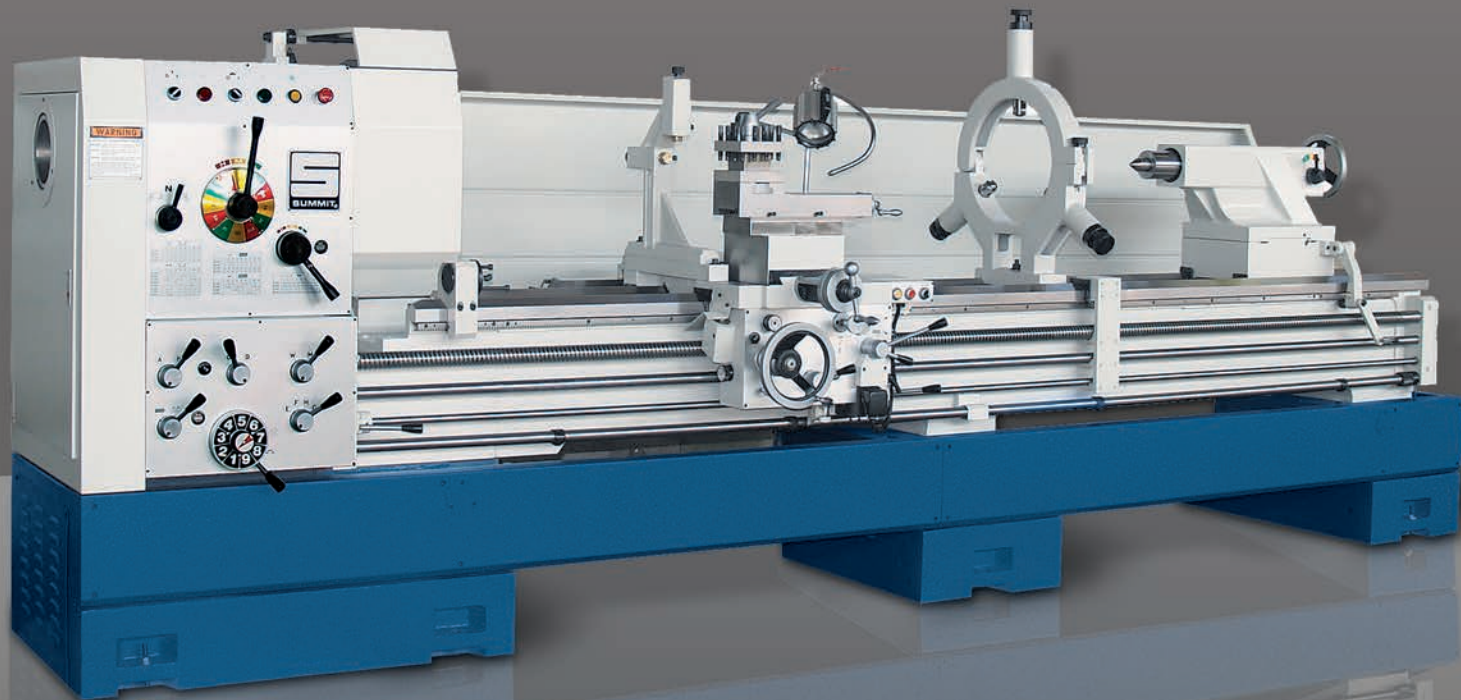
- Inch And Metric Threading
- Hardened & Ground Bed Ways
- T-Slotted Compound
- All Cast Iron Construction
- Clutched Headstock
- Dual Voltage - 220/440 Volt
- 3 Phase / 60 Hz
- Two Speed Tailstock
- 4-Way Rapid Traverse

## INCLUDED ACCESSORIES

- 3 Jaw Chuck
- Steady Rest (2)
- Extra Capacity Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 30-5" MANUAL LATHES

SPECIFICATIONS	STANDARD / METRIC					
CENTER DISTANCE	80" / 2032mm	120" / 3048mm	160" / 4064mm	200" / 7215mm	240" / 6,096mm	
SWING OVER BED	29.9" / 760mm					
SWING OVER CROSS SLIDE	20 1/2" / 520mm					
CROSS SLIDE TRAVEL	15" / 380mm					
BED WIDTH	22" / 560mm					
SPINDLE SPEED, (NUMBER) RANGE	(12) 35 - 1250 RPM					
SPINDLE BORE	5.1" / 130mm					
SPINDLE NOSE	D1-11					
THREADS (NUMBER) RANGE	(76) 1.6 - 60TPI					
TAILSTOCK CENTER	#6 MT					
DIAMETER OF TAILSTOCK SPINDLE	4.1" / 105mm					
MAIN MOTOR	20 HP					
SHIPPING WEIGHT	10,780 lbs	12,100 lbs	14,100 lbs	16,500 lbs	19,500lbs	



## STANDARD FEATURES

- Inch and Metric Threading
- Hardened & Ground Bed Ways
- Removable Gap
- T-Slotted Compound
- All Cast Iron Construction
- Dual Voltage - 220/440 Volt  
3 Phase / 60 Hz
- Two Speed Tailstock
- 4-Way Rapid Traverse

## INCLUDED ACCESSORIES

- 3 & 4 Jaw Chuck (6.1" Bore)
- Front & Rear 4 Jaw Chucks (9.1" Bore)
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial
- Micrometer Carriage Stop

# 26"-30"-33" SERIES BIG HOLE ENGINE LATHES

SPECIFICATIONS	26" Inch/mm				30" Inch/mm				33" Inch/mm			
CENTER DISTANCE	80"	120"	160"	200"	80"	120"	160"	200"	80"	120"	160"	200"
SWING OVER BED	26" / 660mm				30" / 760mm				33" / 75mm			
SWING OVER CROSS SLIDE	18" / 460mm				22" / 560mm				24 3/4" / 100mm			
SWING OVER GAP	35" / 890mm				39" / 990mm				41 3/4" / 1060mm			
CROSS SLIDE TRAVEL	14" / 355mm				15" / 380mm				16 1/2" / 165mm			
BED WIDTH	18" / 460mm				18" / 460mm				18" / 460mm			
SPINDLE BORE	6.1"				6.1" / 9.1"				6.1" / 9.1"			
SPINDLE NOSE	D1-11				D1-11 / A2-15				D1-11 / A2-15			
SPINDLE SPEED, (NUMBER) RANGE	(12) 13 - 800 RPM				(12) 13 - 800 RPM / (12) 11 - 700 RPM				(12) 13 - 800 RPM / (12) 11 - 700 RPM			
THREADS (NUMBER) RANGE	(36) 2 - 28 TPI				(36) 2 - 28 TPI				(36) 2 - 28 TPI			
TAILSTOCK CENTER	5 MT				5 MT				5 MT			
DIAMETER OF TAILSTOCK SPINDLE	3 3/4" / 100mm				3 3/4" / 100mm				3 3/4" / 100mm			
MAIN MOTOR	20 HP				20 HP				20 HP			
SHIPPING WEIGHT	7,920 lbs	9,240 lbs	10,670 lbs	12,210 lbs	8,520 lbs	9,570 lbs	11,000 lbs	12,540 lbs	8,470 lbs	9,790 lbs	11,220 lbs	12,760 lbs





## STANDARD FEATURES

- Quick Change Gear Box Will Cut Inch and Metric Threads
- Hardened & Precision Ground Extra Wide Bed Ways
- 4-Way Rapid Traverse
- T-Slotted Compound
- Two Speed Tailstock
- Motorized Tailstock
- Clutched Headstock (non-VS only)

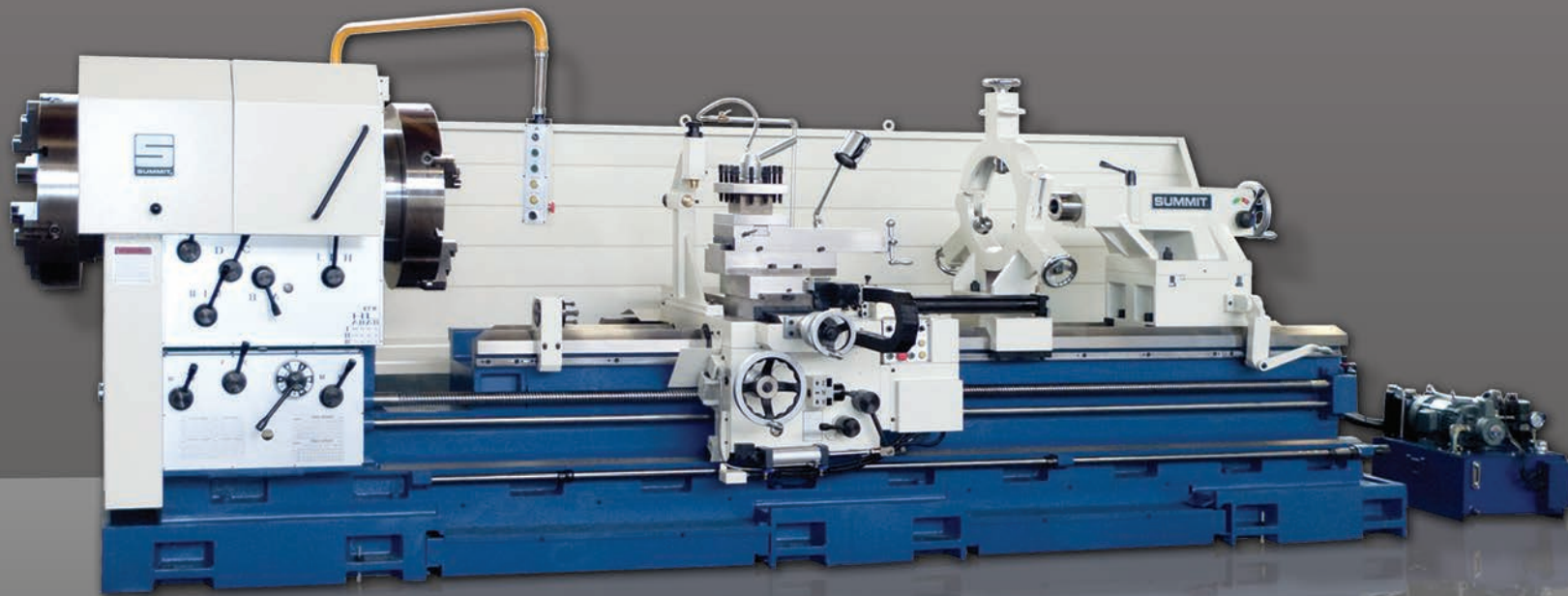
## INCLUDED ACCESSORIES

- Steady Rest (2)
- Follow Rest
- Full Length Splash Guard
- Chuck Guard
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial



# 35"-42"-52" BIG SWING SERIES

SPECIFICATIONS	35" Inch/mm					35" VS Inch/mm					42" Inch/mm					42" VS Inch/mm					52" Inch/mm					52" VS Inch/mm				
CENTER DISTANCE	60"	120"	160"	200"	240"	60"	120"	160"	200"	240"	60"	120"	160"	200"	240"	60"	120"	160"	200"	240"	60"	120"	160"	200"	240"	60"	120"	160"	200"	240"
SWING OVER BED	35" / 890mm					42.9" / 1090mm					51.9" / 1320mm																			
SWING OVER CROSS SLIDE	19.6" / 500mm					27.5" / 700mm					37.4" / 950mm																			
CROSS SLIDE TRAVEL	20-6" / 525mm					20.6" / 525mm					26.9" / 680mm																			
BED WIDTH	27.5" / 700mm					27.5" / 700mm					27.5" / 700mm																			
SPINDLE SPEED, (NUMBER) RANGE	(24) 6.3 - 1250 RPM		(Inf. Var.) 2.6 -1000RPM			(24) 6.3 - 1250 RPM		(Inf. Var.) 2.6-1000RPM			(24) 6.3 - 1250 RPM		(Inf. Var.) 2.6- 1000RPM																	
SPINDLE BORE	6.1"					6.1"					6.1"																			
SPINDLE NOSE	A2-15					A2-15					A2-15																			
THREADS (NUMBER) RANGE	(80) 1/16 60 TPI					(80) 1/16 60 TPI					(80) 1/16 60 TPI																			
TAILSTOCK CENTER	6 MT					6 MT					6 MT																			
DIAMETER OF TAILSTOCK SPINDLE	4.9" / 125mm					4.9" / 125mm					4.9" / 125mm																			
MAIN MOTOR	30 HP / 40 HP					30 HP / 40 HP					40 HP / 40 HP																			
SHIPPING WEIGHT (POUNDS)	8,200	16,500	17,600	20,900	22,220	14,630	17,710	18,810	22,110	23,430	15,380	18,590	19,690	22,990	24,420															



## STANDARD FEATURES

- Apron & Pendant Controls
- Hardened & Precision Ground Bed Ways
- Sliding Chuck Guards
- Quick Change Gearbox Will Cut American (Inch), Metric and Module Pitch Threads
- Rapid Traverse On Carriage (4 Way)
- Huge 6", 9", 12" & 14" Spindle Bores

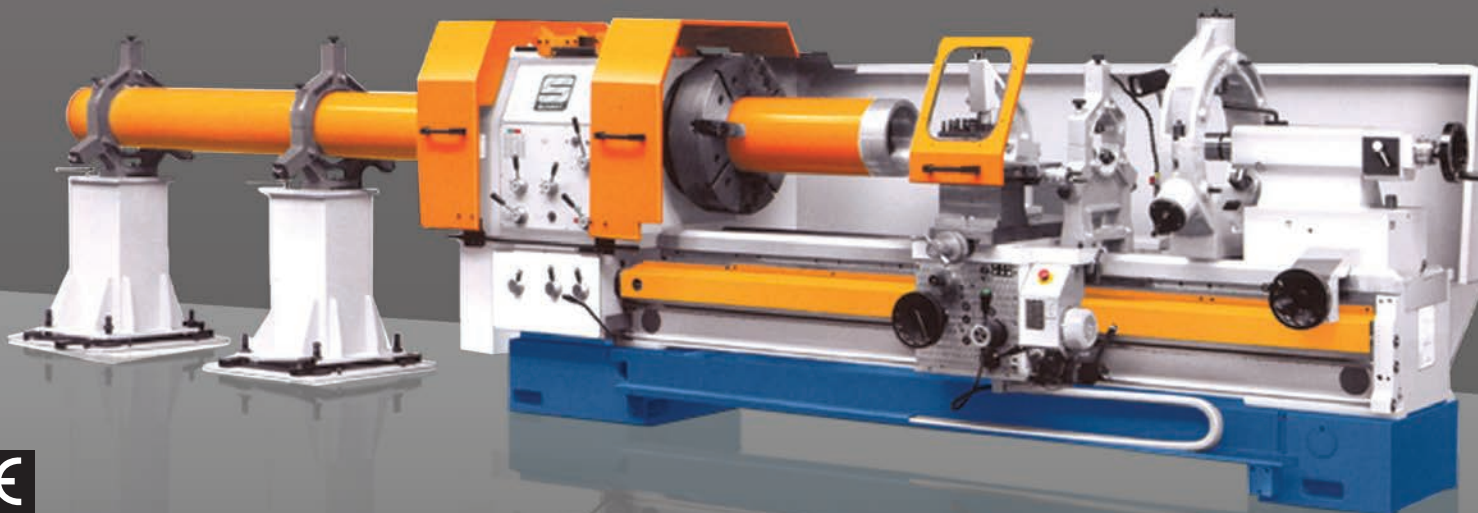
## INCLUDED ACCESSORIES

- Steady Rest (5.9" - 14.9")
- Follow Rest
- Complete Coolant System With Chip Pans and Splash Guards
- Taper Attachment Incremented In Both Degrees and Inches Per Foot
- 42-6 Series Equipped With 20" 3 Jaw Chuck and 32" 4 Jaw Chuck
- 42-9 Series Equipped With Front and Rear 26" 4 Jaw Chuck
- 42-12 Series Equipped With Front and Rear 28" 4 Jaw Chucks
- 42-14 Series Equipped With Front and Rear 28" 4 Jaw Chucks

# 42" HOLLOW SPINDLE SERIES

## OIL COUNTRY LATHES

SPECIFICATIONS	42" Inch/mm										
CENTER DISTANCE	80"	120"	160"	200"	240"	280"	320"	360"			
SWING OVER BED	41.7" / 1060mm										
SWING OVER CROSS SLIDE	29.5" / 750mm (up to 200" centers)										
SWING OVER GAP	63.4" / 100mm (up to 200" centers)										
CROSS SLIDE TRAVEL	21.3" / 75mm										
BED WIDTH	22" / 560mm										
SPINDLE SPEED, (NUMBER) RANGE	9 - 600 RPM		/	6 - 400 RPM		/	3 - 250 RPM		/	3 - 250 RPM	
SPINDLE BORE	6.1"		/	9"		/	12.2"		/	14.1"	
SPINDLE NOSE	A2-11		/	A2-15		/	A2-20		/	A2-20	
THREADS (NUMBER) RANGE	(48) 1 - 16 TPI										
TAILSTOCK CENTER	6 MT										
DIAMETER OF TAILSTOCK SPINDLE	4.9" / 125mm										
MAIN MOTOR	30 HP										
SHIPPING WEIGHT	22,500 lbs	25,000 lbs	27,500 lbs	30,000 lbs	32,500 lbs	35,000 lbs	37,500 lbs	40,000 lbs			



## STANDARD FEATURES

- Big 10.2", 12.4" or 14.1" thru hole
- Precision (3) bearing spindle
- Inch/metric threads w/single switch lever
- Crossfeed and threading safety interlock
- Cuts most inch/metric threads without change gears
- Feed reversing at the apron
- Hardened & ground bedways
- 4-way rapid traverse
- Forced lubrication to the headstock, carriage and bedways
- Two Speed Tailstock
- Sliding Chuck Guards

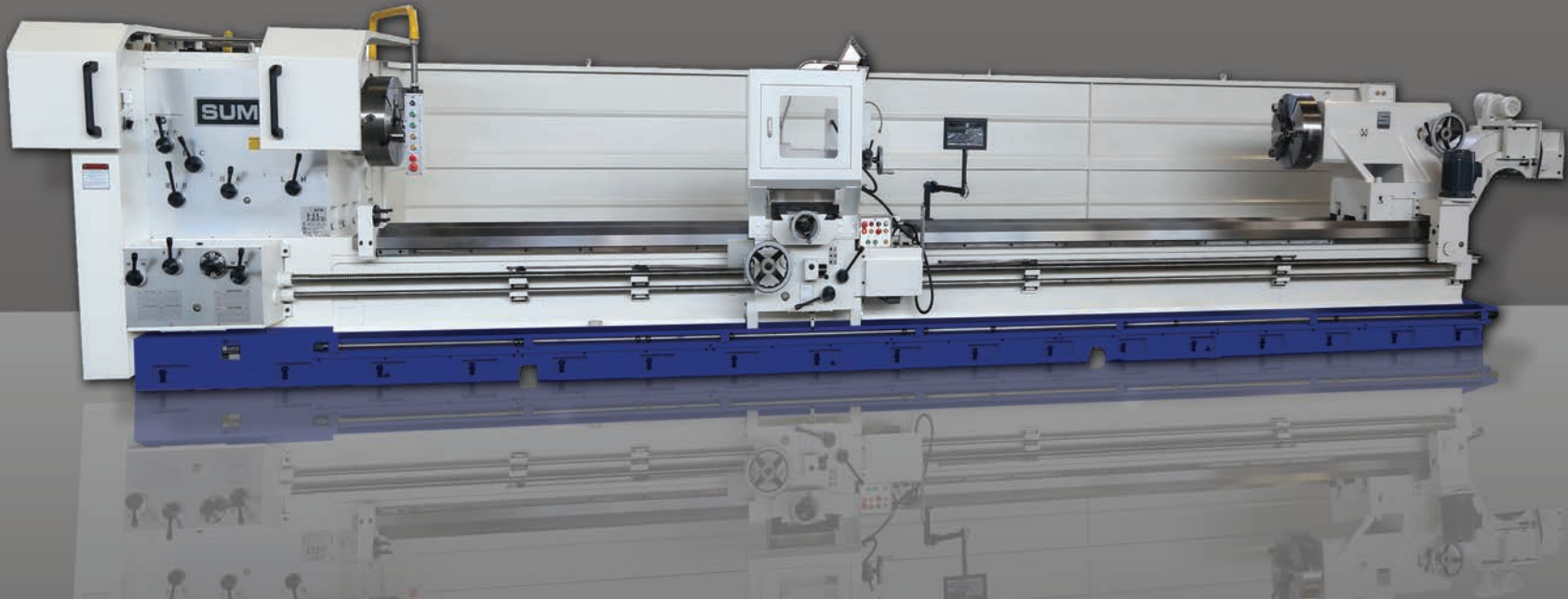
## INCLUDED ACCESSORIES

- Standard Steady Rest (7" – 16.9")
- Hydraulic Rapid Threading Device
- Follow Rest
- Carriage Stop
- Thread Dial
- Work Light
- Coolant System
- Full Length Splash Guard
- Taper Attachment
- Service Wrenches & Spanners

# EURO HOLLOW SPINDLE SERIES

## OIL COUNTRY LATHES

SPECIFICATIONS	32-10 Inch/mm	32-12 Inch/mm	39-14 Inch/mm
CENTER DISTANCE OPTIONS	60" TO 240"	60" TO 240"	60" TO 240"
SWING OVER BED	31.5" / 800mm		39.5" / 1000mm
SWING OVER CROSS SLIDE	22" / 560mm		29.9" / 760mm
BED WIDTH	22" / 560mm		
SPINDLE SPEED, (NUMBER) RANGE	(12) 10 - 480 RPM	(12) 10 - 480 RPM	(12) 9.6 - 460 RPM
SPINDLE BORE	10.2" / 260mm	12.4" / 315mm	14.1" / 560mm
SPINDLE NOSE	A2-20	A2-20	A2-20
TRAVEL OF SPINDLE BARREL	8.8" / 225mm	8.8" / 225mm	8.8" / 225mm
DIAMETER OF SPINDLE BARREL	4.1" / 105mm	4.1" / 105mm	4.1" / 105mm
TAILSTOCK CENTER	MT #6	MT #6	MT #6
MAIN MOTOR	20 HP	20 HP	30 HP
WEIGHT	14,200 lbs	14,420 lbs	15,800 lbs



## STANDARD FEATURES

- Quick Change Gear Box Will Cut Inch And Metric Threads
- Hardened & Precision Ground Extra Wide Bed Ways
- 4-Way Rapid Traverse
- T-Slotted Compound
- Removable Gap (up to 200" Centers)
- Two Speed Tailstock
- Air Kick Out For Semi-Automatic Threading (12", 14", 21" Bores)

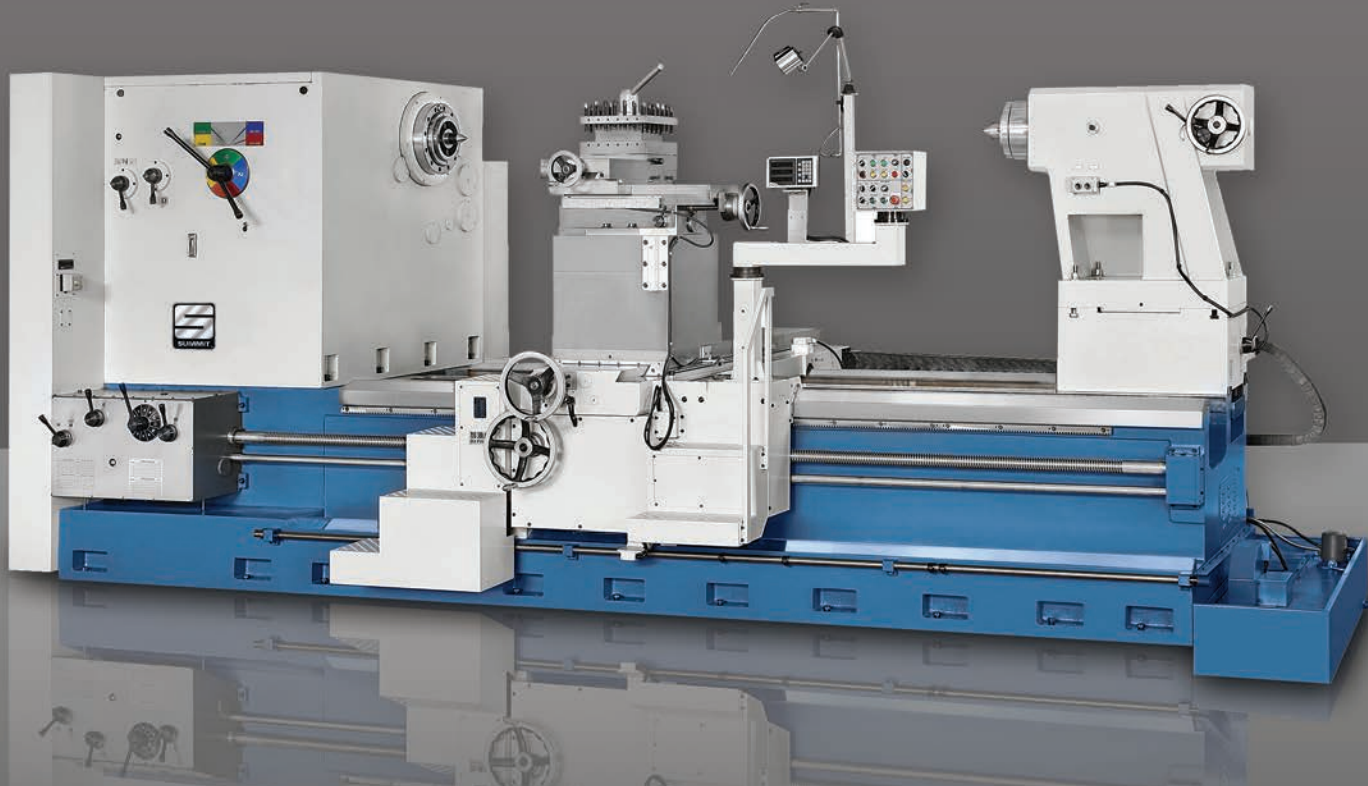
## INCLUDED ACCESSORIES

- Front & Rear 4 Jaw Chucks
- Steady Rest
- Follow Rest
- Full Length Splash Guard
- Chuck Guards
- Halogen Work Light
- Taper Attachment
- Coolant System
- Thread Dial

# BIG SWING HOLLOW SPINDLE SERIES LATHES

SPECIFICATIONS	47" Inch/mm	55" Inch/mm	63" Inch/mm	
CENTER DISTANCE OPTIONS	80" / 120" / 160" / 200" / 240" / 280" / 320" / 360"			
SWING OVER BED	47" / 1200mm	55" / 1400mm	63" / 1600mm	
SWING OVER CROSS SLIDE (UP TO 200" CENTERS)	32.6" / 830mm	40.5" / 1030mm	48.4" / 1230mm	
SWING OVER GAP	68.8" / 1750mm	76" / 1950mm	84.6" / 2150mm	
CROSS SLIDE TRAVEL	30.7" / 780mm			
BED WIDTH	31.5" / 800mm			
SPINDLE SPEED, (NUMBER) RANGE	(12) 6 - 400 RPM	(12) 5 - 300 RPM	(12) 5 - 300 RPM	(12) 3 - 230 RPM
SPINDLE BORE	9" / 230mm	12.2" / 310mm	14.2" / 360mm	21" / 535mm
SPINDLE NOSE	A2-15	A2-20	A2-20	A2-28
THREADS (NUMBER) RANGE	(48) 1 - 15 TPI			
TAILSTOCK CENTER	MT #7			
DIAMETER OF TAILSTOCK SPINDLE	7.9" (standard) or 11.4" for Rotary Quill (optional)			
MAIN MOTOR	30 HP (40 HP & 50 HP optional)			
WEIGHT (APPROX. 200" CENTER)	39,620 lbs	43,120 lbs	46,620 lbs	





## STANDARD FEATURES

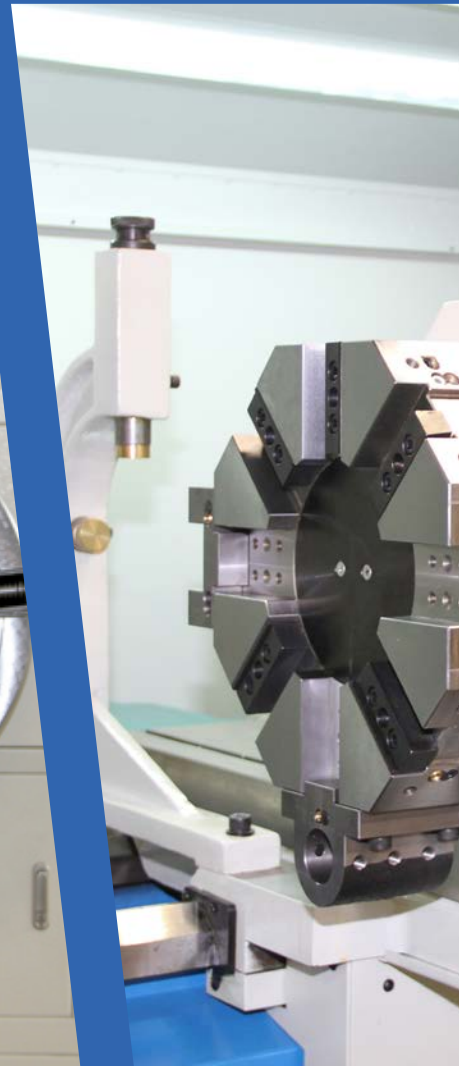
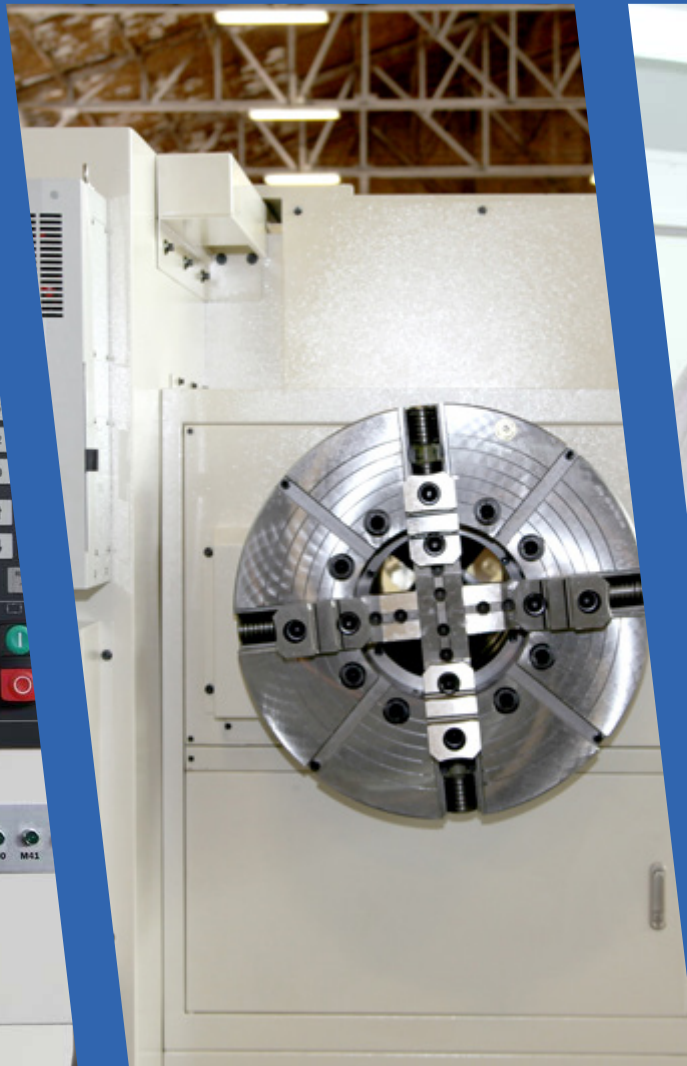
- Quick Change Gear Box  
Hardened & Precision Ground  
Bed Ways
- 6-way Rapid Traverse
- Two Speed Tailstock
- Easy Access Control Station
- Infinitely Variable Spindle

## INCLUDED ACCESSORIES

- Steady rest
- Follow rest
- Thread dial
- Chuck Guards
- Halogen Work  
Light
- Coolant System
- 4 Jaw Chuck

# 70"-80"-100" BIG SWING SERIES

SPECIFICATIONS	70" Inch/mm	80" Inch/mm	100" Inch/mm
CENTER DISTANCE OPTIONS	80" UP TO 600"	80" UP TO 600"	80" UP TO 600"
SWING OVER BED	70.8" / 1200mm	78.7" / 1400mm	98.4" / 1600mm
SWING OVER CROSS SLIDE	53.1" / 830mm	61" / 1030mm	80.7" / 1230mm
WORKPIECE WEIGHT BTWN CENTERS	55,000 lbs. / 25,000kg		
BED WIDTH	52.9" / 1345mm		
CROSS SLIDE TRAVEL	49.2" / 1250mm		
SPINDLE BORE	8" / 205mm		
SPINDLE NOSE	A2-15		
SPINDLE SPEEDS: NUMBER	4		
SPINDLE SPEEDS: RANGE	6 - 400 RPM / INFINITELY VARIABLE		
THREADS (NUMBER) RANGE	(48) 1 - 15 TPI		
TAILSTOCK CENTER	MT #7		
DIAMETER OF TAILSTOCK SPINDLE	11.4" / 290mm Rotary Quill		
MAIN MOTOR	60 HP (75 HP optional)		
WEIGHT (APPROX. 200" CENTER)	39,620 lbs / 17,970kg	43,120 lbs / 19,560kg	46,620 lbs / 21,145kg





# CNC LATHES

*The Summit® SmartCut Lathe is a new generation of combination lathes available from Summit. The SmartCut is everything you would expect: rugged and dependable, with the precision needed for the finest finishes. It combines CNC controls with hand wheels for manual turning, providing maximum flexibility and productivity. Combined with Fagor® technology, these machines are hard to beat.*

*SmartCut Lathes are designed with a self-teaching controller. You can produce a part manually, and with a few simple key strokes the controller stores the machining sequences and creates a part program.*

*SmartCut Lathes were designed for growing companies evolving from manual lathe operations to CNC. The control language is conversational with on-screen menus and prompts to make programming virtually foolproof. The controls are equipped with multiple ports for connection to offline programming systems for more advanced users. The combination of these control features and hand wheels enable you to use a single machine for one-off or prototype work, in a semi-automatic mode for small production lots, and in its fully automatic mode for medium length production runs.*

*The combination of CNC technology and manual capability in a precision engineered heavyweight design, make the Summit SmartCut the new value leader in turning.*



## STANDARD FEATURES

- Available In 33" - 240" Center Distances
- Up To 19,600lbs Part Capacity
- Heavily Ribbed Cast Bed and Base
- Hardened and Precision Ground Bed Ways
- Precision Ground Ball Screws
- Infinitely Variable Speed Ranges
- Yaskawa Spindle Drive
- Constant Surface Speed
- Fine Feed Electronic Hand Wheels
- Inch-Metric Capabilities
- T-Slotted Cross Slide For Multiple Accessory Compatibility

## ACCESSORIES

- Steady Rest With Roller Tips
- Follow Rest
- Coolant System
- Sliding Enclosure Doors
- 3 Jaw Chuck (Except SC32)

# SMARTCUT FLATBED CNC LATHES

SPECIFICATIONS	SC20 Inch/mm	SC26-4 Inch/mm	SC30-4 Inch/mm	SC30-6 Inch/mm
SWING OVER BED	20" / 510mm	26" / 660mm	30" / 760mm	30" / 760mm
SWING OVER CROSS SLIDE	11.5" / 40mm	18" / 455mm	22" / 550mm	22" / 560mm
SWING OVER GAP	28" / 710mm	33" / 840mm	37" / 940mm	37" / 940mm
BED WIDTH	13" / 330mm	17.7" / 450mm	17.7" / 450mm	17.7" / 450mm
CROSS SLIDE TRAVEL	15" / 380mm	16" / 410mm	16" / 410mm	16" / 410mm
LONGITUDINAL TRAVEL 40"	31.5 / 800mm	N/A	N/A	N/A
60"	51.125" / 1300mm	N/A	N/A	N/A
80"	72.75" / 1850mm	N/A	N/A	N/A
60"	N/A	59" / 1500mm	59" / 1500mm	59" / 1500mm
80"	N/A	78.875" / 2000mm	78.875" / 2000mm	78.875" / 2000mm
120"	N/A	118" / 3000mm	118" / 3000mm	118" / 3000mm
HOLE THROUGH SPINDLE	3.312" / 85mm	4.125" / 105mm	4.125" / 105mm	6.1" / 155mm
SPINDLE NOSE	D1-8	D1-11	D1-11	A2-11
SPINDLE SPEEDS (RANGES)	30 - 2000 RPM	22 - 1500 RPM	22 - 1500 RPM	22 - 1000 RPM
FEED RATE X-AXIS	0-250 IPM			
FEED RATE Z-AXIS	0-400 RPM			
TAILSTOCK QUILL DIAMETER	4.125" / 105mm	4.125" / 105mm	4.125" / 105mm	4.125" / 105mm
TAILSTOCK QUILL TRAVEL	6.25" / 160mm	8.8" / 225mm	8.8" / 225mm	8.8" / 225mm
X AXIS SERVO	1.4 HP / 1 kW	2.7 HP / 2 kW	2.7 HP / 2 kW	2.7 HP / 2 kW
Z AXIS SERVO	1.4 HP / 1 kW	1.4 HP / 1 kW	1.4 HP / 1 kW	1.4 HP / 1 kW
SPINDLE MOTOR	15 HP / 11 kW	20 HP / 15 kW	20 HP / 15 kW	20 HP / 15 kW







# 32" SMARTCUT FLATBED CNC LATHES

SPECIFICATIONS		SC32-10 Inch/mm	SC32-12 Inch/mm	SC32-15 Inch/mm
SWING OVER BED			31.5" / 800mm	
SWING OVER CROSS SLIDE			20" / 500mm	
SWING OVER GAP			43.3" / 1100mm	
BED WIDTH			21.6" / 550mm	
CROSS SLIDE TRAVEL		21.6" / 550mm	21.6" / 550mm	21.6" / 550mm
LONGITUDINAL TRAVEL	60"	52" / 1320mm	52" / 1320mm	52" / 1320mm
	80"	71.6" / 1820mm	71.6" / 1820mm	71.6" / 1820mm
	120"	111" / 2820mm	111" / 2820mm	111" / 2820mm
	160"	150.4" / 3820mm	150.4" / 3820mm	150.4" / 3820mm
HOLE THROUGH SPINDLE		9.8" / 250mm	12" / 305mm	14.9" / 380mm
SPINDLE NOSE		A2-15		A2-20
SPINDLE SPEEDS (RANGES)		4-600RPM (4)		4-400RPM (4)
FEED RATE X-AXIS		0-250 IPM / 0-6350mm/min		
FEED RATE Z-AXIS		0-400 IPM / 0-10000mm/min		
TAILSTOCK QUILL DIAMETER		4.1" / 105mm		
TAILSTOCK QUILL TRAVEL		10.8" / 275mm		
X AXIS SERVO MOTOR		2.7 HP / 2 kW		
Z AXIS SERVO MOTOR		4 HP / 3 kW		
SPINDLE MOTOR		30 HP / 23 kW		



# SMARTCUT BIG HOLE CNC LATHES

SPECIFICATIONS	SC26 Inch/mm	SC30 Inch/mm	SC33 Inch/mm	SC42 Inch/mm
SWING OVER BED	26.3" / 670mm	30.3" / 770mm	33" / 840mm	41.7" / 1060mm
SWING OVER CROSS SLIDE	15.75" / 400mm	19.6" / 500mm	22.4" / 570mm	26" / 630mm
SWING OVER GAP	N/A			
BED WIDTH	18" / 460mm		22" / 560mm	
CROSS SLIDE TRAVEL	16.1" / 410mm		23.6" / 600mm	
LONGITUDINAL TRAVEL	80"	70.8" / 1800mm		68.9" / 1750mm
	120"	110.2 / 2800mm		108.3" / 2750mm
	160"	149.6" / 3800mm		147.6" / 3750mm
	200"	189" / 4800mm		187" / 4750mm
	240"	N/A		226.4" / 5750mm
HOLE THROUGH SPINDLE	6.1" / 155mm or 9" / 230mm		6.1" / 9"	12.2" / 310mm or 14.1" / 360mm
SPINDLE NOSE	A2-11 / A2-15		A2-11 / A2-15	A2-20
SPINDLE SPEEDS (RANGES)	11-1000RPM / 4-800RPM		6-800RPM / 4-600RPM 3-400RPM	
FEED RATE X-AXIS	0-200 IPM		0-200 IPM	
FEED RATE Z-AXIS	0-200 IPM		0-200 IPM	
TAILSTOCK QUILL DIAMETER	3.7" / 95mm		4.9" / 124mm	
TAILSTOCK QUILL TRAVEL	9" / 230mm		11.8" / 300mm	
X AXIS SERVO MOTOR	2.7 HP		3.7 HP	
Z AXIS SERVO MOTOR	4.3 HP		7.1 HP	
SPINDLE MOTOR	20 HP		(80"-160" TRAVEL) 30 HP	(200"-240" TRAVEL) 40 HP





# MILLS

*Summit® Vertical, Horizontal and Universal Mills all have several things in common including rugged durability and the precision needed in today's manufacturing environment. Summit Mills are manufactured from closed grain castings with thick, heavily ribbed columns and extra wide knees for smooth cutting through the toughest materials.*

*Every Summit Vertical Mill features variable speed spindles - either mechanically through variator pulleys or electronically utilizing AC motors and frequency drives. Both designs provide quick response and eliminate the need to stop the spindle to change speeds.*

*The Summit SmartCut EVS Series CNC Mills feature the same heavyweight design characteristics as the manual machines with the addition of ball screws, scale feedback and a full three-axis CNC control.*

*The engineering excellence, fine workmanship, quality materials and robust specifications on all of the Summit Mills assures you greater production and trouble-free operation for years to come.*





# VERTICAL MILLS

## STANDARD FEATURES

- Heavy Mehanite Cast Construction
- Heavy Box Saddle
- Huge Box Type Ways on Knee
- Double Table Locks
- Turcite-B Inserted Guideways For Extended Machine Life
- Complete Electrics With Low Voltage Controls For Safer Machine Operation
- Way Wipers For Saddle And Column
- Hardened & Ground Ways
- R-8 Collet Set (VS-350B)
- One-Shot Lubrication
- Draw Bar
- Way Covers

SPECIFICATIONS	VS-350B inch/mm	VS-550B inch/mm	VS-560B inch/mm
MOTOR SIZE	3 HP	5 HP	5 HP
VERTICAL SPINDLE SPEEDS - NO.	INFINITELY VARIABLE	INFINITELY VARIABLE	12
VERT. SPINDLE SPEEDS - RANGE	60 - 4200RPM	80 - 3500RPM	85 - 3150RPM
VERTICAL SPINDLE TAPER	R-8	# 40	#40
VERTICAL SPINDLE TRAVEL	5" / 130mm	5" / 140mm	5" / 140mm
VERTICAL SPINDLE FEED RANGE	.0015 / .003 / .006 IPR	.0015 / .003 / .006 IPR	.0015 / .003 / .006 IPR
HEAD MOVEMENT (SIDE TO SIDE)	+/- 90 degrees	+/- 90 degrees	+/- 45 degrees
HEAD MOVEMENT (FRONT TO BACK)	+/- 45 degrees	N/A	N/A
TABLE SIZE (W x L x H)	10" x 50" x 3 1/8" 254 x 1270 x 80mm	11" x 52" x 3 1/8" 280 x 1320 x 80mm	12" x 60" x 3 1/8" 305 x 1525 x 80mm
TABLE FEED (LONGITUDINAL)	36" / 915mm	32" / 810mm	47.2" / 1200mm
TABLE FEED (CROSS)	16" / 405mm	16" / 405mm	18" / 460mm
MAX. WEIGHT OF WORKPIECE	850 lbs	1025 lbs	1200 lbs
ROTATION OF OVER ARM	360 degrees	360 degrees	360 degrees
OVER ARM ADJUSTMENT	22" / 560mm	24" / 610mm	24" / 610mm
SPINDLE NOSE TO TABLE	2.5" - 18.5" 65mm - 470mm	2" - 22" 50mm - 560mm	5.1" - 22.6" 130mm - 575mm
WEIGHT	2,900 lbs	3,740 lbs	5,720 lbs



**EVSH-560B**



# **EVS VERTICAL MILLS** EVS-550B

## **STANDARD FEATURES**

- Heavy Mehanite Cast Construction
- Heavy Box Saddle
- Huge Box Type Ways on Knee
- Double Table Locks
- Turcite-B Inserted Guideways For Extended Machine Life
- Complete Electrics With Low Voltage Controls For Safer Machine Operation
- Way Wipers For Saddle And Column
- Hardened & Ground Ways
- Power Raise On Knee
- Power Draw Bar
- One-Shot Lubrication
- Draw Bar
- Way Covers
- Horizontal Spindle (560B)



SPECIFICATIONS		EVS-349B inch/mm	EVS-354B inch/mm	EVS-550B inch/mm	EVSH-560B inch/mm
VERTICAL SPINDLE	MOTOR SIZE	3 HP		5 HP	5 HP
	SPINDLE SPEEDS - (NO.)	INFINITELY VARIABLE		INFINITELY VARIABLE	
	SPINDLE SPEEDS - RANGE	0 - 4300RPM		0 - 3650RPM	0 - 4000RPM
	SPINDLE TAPER	R-8		# 40	#40
	SPINDLE TRAVEL	5" / 130mm		5.5" / 140mm	5.5" / 140mm
	SPINDLE FEED RANGE	.0015 / .003 / .006 IPR		.0015 / .003 / .006 IPR	
	HEAD MOVEMENT (SIDE TO SIDE)	+/- 90 degrees		+/- 90°	N/A
	HEAD MOVEMENT (FRONT TO BACK)	+/- 45 degrees		N/A	N/A
HORIZONTAL SPINDLE	MOTOR SIZE	N/A		N/A	3 HP
	SPINDLE SPEEDS - (NO.)	N/A		N/A	8
	SPINDLE SPEEDS - RANGE	N/A		N/A	80 - 1355
	SPINDLE TAPER	N/A		N/A	#40
TABLE SIZE (W x L x H)	9" x 49" x 3 1/8" 230 x 1245 x 80mm	10" x 54" x 3 1/8" 254 x 1372 x 80mm	11" x 52" x 3 1/8" 280 x 1320 x 80mm	12" x 60" x 3 1/8" 305 x 1525 x 80mm	
TABLE FEED (LONGITUDINAL)	31" / 790mm	40" / 1016mm	32.5" / 825mm	47.2" / 1200mm	
TABLE FEED (CROSS)	13" / 330mm	16" / 405mm	16" / 405mm	18.9" / 480mm	
MAX. WEIGHT OF WORKPIECE	850 lbs	1025 lbs	1025 lbs	1200 lbs	
ROTATION OF OVER ARM	360 degrees		360 degrees		
OVER ARM ADJUSTMENT	15" / 380mm	22" / 560mm	24" / 610mm	24" / 610mm	
SPINDLE NOSE TO TABLE	0 - 17.5" 0 - 445mm	2.5"-17.5" 65-445mm	2" - 22" 50-560mm	5.1" - 22.6" 130mm - 575mm	
WEIGHT	2,200 lbs	2,900 lbs	3,740 lbs	5,720 lbs	



## STANDARD FEATURES

- Inverter Duty, High-Energy – High-Efficiency Motors For Lower Utility Costs
- Centrally Located Controls For Ease of Operation
- Immediate Response Speed Control (0-Full Speed In 4 Sec.)
- Full Range Spindle Rpm Selection CNC Controlled
- “Turcite-B” Inserted Guideways For Extended Machine Life
- Complete Electrics With Low Voltage Controls For Safer Machine Operation
- Fan Cooled Electrical Enclosure
- Heavy “Mehanite” Cast Iron Construction For Excellent Damping
- Automatic Way Lubrication
- Fagor® CNC 8058 MC Control System
- High level conversational and full G code programming
- Up to 4 Axis CNC+ Spindle Control Via CNC
- Fagor Intelligent Profile Editor
- Remote Instant Service capability via TeamViewer

# SMARTCUT CNC MILLS

SPECIFICATIONS	SC-EVS-350B CNC Standard/Metric	SC-EVS-550B CNC Standard/Metric
<b>MOTOR SIZE</b>	3 HP / 2kW	5 HP / 3.5 kW
<b>SPINDLE SPEEDS</b>	INFINITELY VARIABLE	
<b>SPEED RANGE</b>	0 - 4300 RPM	0 - 3800 RPM
<b>SPINDLE TAPER</b>	R-8	#40
<b>SPINDLE TRAVEL</b>	5" / 130mm	5.5" / 140mm
<b>SPINDLE FEED (NO.) RANGE</b>	(INFINITELY VARIABLE) 0 - 200 IPM	
<b>HEAD MOVEMENT (SIDE TO SIDE)</b>	+/- 90 degrees	N/A
<b>HEAD MOVEMENT (FRONT TO BACK)</b>	+/- 45 degrees	N/A
<b>TABLE SIZE</b>	10" x 54" x 3 1/8" 255 x 1370 x 80mm	11" x 52" x 3 1/8" 280mm x 1320 x 80mm
<b>TABLE FEED (LONGITUDINAL)</b>	34" / 865mm	32" / 815mm
<b>TABLE FEED (CROSS)</b>	14" / 355mm	
<b>MAX. WORKPIECE WEIGHT</b>	850 lbs	1025 lbs
<b>ROTATION OF OVER ARM</b>	360 degrees	360 degrees
<b>OVERARM ADJUSTMENT</b>	22" / 560mm	24" / 610mm
<b>SPINDLE TO NOSE TABLE</b>	2.5" - 17.5" 65mm - 445mm	3" - 20" 80mm - 510mm
<b>WEIGHT</b>	2,900 lbs	3,740 lbs

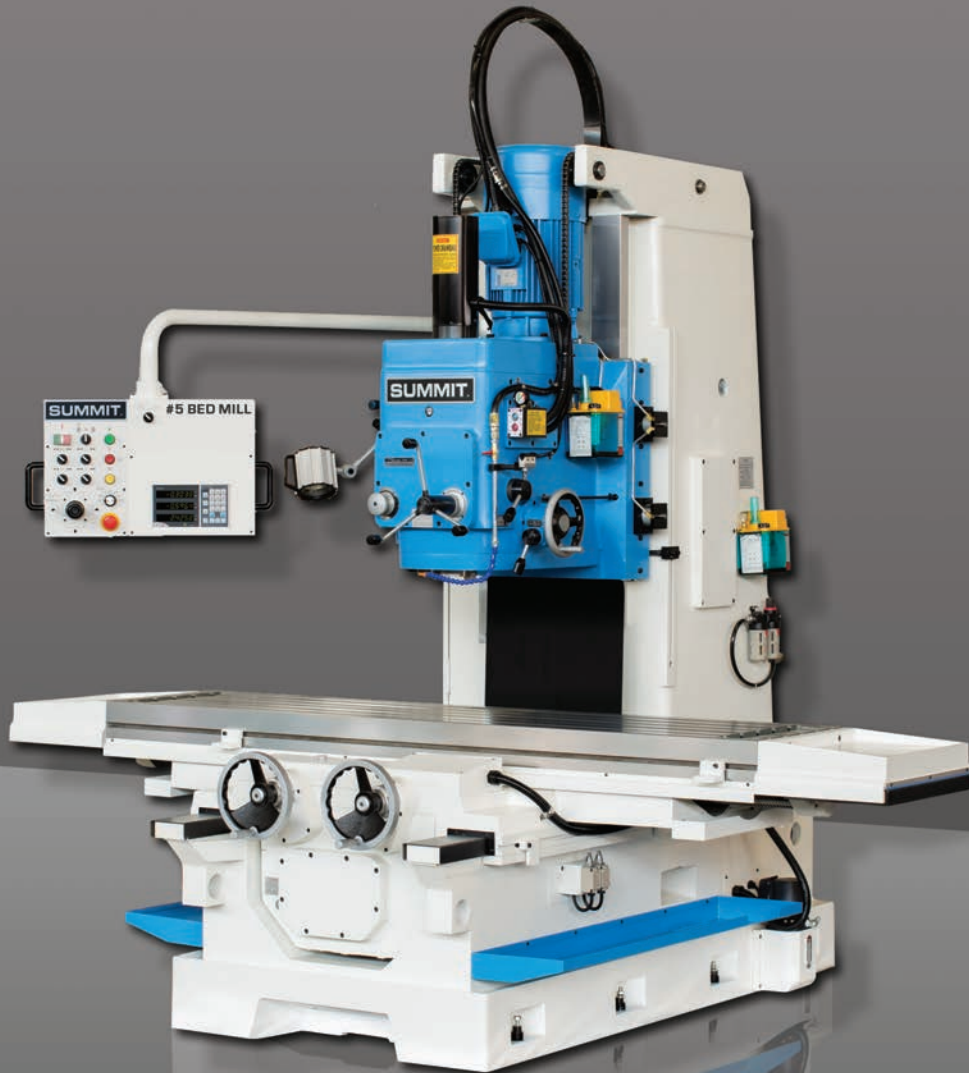


## STANDARD FEATURES

- Heavy Mehanite Cast Construction
- Heavy Box Saddle
- Double Table Locks
- Turcite-B Inserted Guideways For Extended Machine Life
- Complete Electrics With Low Voltage Controls For Safer Machine Operation
- Way Wipers For Saddle And Column
- Hardened & Ground Ways
- Power Draw Bar
- One-Shot Lubrication
- Draw Bar
- Way Covers

# 760 Series Bed Mills

SPECIFICATIONS		EVS-760B VBM inch/mm	SC-EVS-760B CNC VBM Standard/Metric
VERTICAL SPINDLE	MOTOR SIZE	7.5 HP	7.5 HP / 0kw
	SPINDLE SPEEDS - (NO.)	INFINITELY VARIABLE	
	SPINDLE SPEEDS - RANGE	70 - 3800RPM	70 - 3800 RPM
	SPINDLE TAPER	#40	#40
	SPINDLE TRAVEL	5.5" / 140mm	5.5" / 140mm
	SPINDLE FEED RANGE	INF. VARIABLE	INF. VARIABLE
	HEAD MOVEMENT (SIDE TO SIDE)	+/- 90°	+/- 90°
	HEAD MOVEMENT (FRONT TO BACK)	N/A	N/A
TABLE SIZE (W x L x H)	16.9" x 60" x 3 1/8" 430 x 1525 x 80mm	16.9" x 60" x 3 1/8" 430 x 1525 x 80mm	
TABLE FEED (LONGITUDINAL)	51.1" / 1300mm	51.1" / 1300mm	
TABLE FEED (CROSS)	23.62" / 600mm	23.62" / 600mm	
MAX. WEIGHT OF WORKPIECE	2200 lbs	2200 lbs	
ROTATION OF OVER ARM	360 degrees		
OVER ARM ADJUSTMENT	24" / 610mm	24" / 610mm	
SPINDLE NOSE TO TABLE	2.5" - 30" 63mm - 760mm	2.5" - 30" 63mm - 760mm	
WEIGHT	6,500 lbs	6,500 lbs	



## STANDARD FEATURES

- Automatic Lubrication
- Conveniently Located Operator's Panel
- Rapid Traverse
- Lead Screws on X and Y Axis
- Alloy steel main spindle
- Saddle assembly travels on precision ground slides
- Dual control of spindle speeds

## INCLUDED ACCESSORIES

- Air power Drawbar
- Coolant
- Work Light
- Spanners & Wrenches
- Leveling Bolts and Pads
- 3 Axis Digital Readout Installed

# VERTICAL BED MILLS

SPECIFICATIONS	#3VL Inch/mm	#5VL Inch/mm	#5VHL Inch/mm	#8VL Inch/mm	#8VHL Inch/mm
TABLE AREA	15" x 67" / 380mm x 1700mm	19.6" x 86.6" / 500mm x 2200mm		29.5" x 106.3" / 750mm x 2700mm	
LONGITUDINAL TRAVEL (X AXIS)	39.4" / 1000mm	59" / 1500mm		78.75" / 2000mm	
CROSS TRAVEL (Y AXIS)	15" / 380mm	23.6" / 600mm		31.5" / 800mm	
VERTICAL HEAD TRAVEL (Z AXIS)	19.7" / 500mm	27.6" / 700mm		27.6" / 700mm	
HORIZ. HEAD TRAVEL (W AXIS)	N/A	N/A	25.6"	N/A	25.6"
TABLE TOP TO FLOOR	31.5" / 800mm	34.25" / 870mm		35.4" / 900mm	
NUMBER OF T-SLOTS	5	5		5	
NUMBER OF TABLE FEEDS	Infinitely Variable	Infinitely Variable		Infinitely Variable	
TABLE FEED RANGES	0 -39.4 IPM	0 - 39.4 IPM		0 - 39.4 IPM	
TABLE RAPID TRAVERSE	110 IPM	130 IPM		122 IPM	
TABLE FEED MOTOR	1.75 HP	5 HP		5 HP	
VERTICAL SPINDLE SPEEDS, NO.	12	12		Infinitely Variable	
VERTICAL SPINDLE SPEEDS, RANGE	45 - 1500 RPM	45 - 1500 RPM		45 - 1500 RPM	
VERTICAL SPINDLE FEEDS, NUMBER	Infinitely Variable	Infinitely Variable		Infinitely Variable	
VERTICAL SPINDLE FEEDS, RANGE	.002 - .008 IPR	.002 - .008 IPR		0.12 - 11.81 IPM	
SPINDLE NOSE TO TABLE TOP	3.9" - 23.6"	3.9" - 31.5"		2.75" - 30.3"	
SPINDLE CENTER TO COLUMN	14.96" / 380mm	21.6" / 550mm		31.5" / 800mm	
SPINDLE TAPER	#50 NMT	#50 NMT		#50 NMT	
VERTICAL SPINDLE MOTOR	7.5 HP	17.5 HP		17.5 HP	
OVERALL DIMENSION (L x W x H)	126" x 79" x 95" / 3200 x 2005 x 2415mm	175" x 101" x 113" / 4445 x 2565 x 2870mm		146" x 124" x 109" / 3710 x 3150 x 2770mm	
WEIGHT	8,800 lbs	15,400 lbs	19,140 lbs	26,000 lbs	28,650 lbs





## STANDARD FEATURES

- Alloy Steel Main Spindle
- Saddle Assembly Travels on Precision Ground Slides
- Automatic Lube System Ensures Consistent Lubrication of Speed and Feed Boxes
- Dual Control of Spindle Speeds
- Vertical Attachment With Drawbar (3UHB)
- Powered Overarm With Universal Head (-U & -Q Models)
- Coolant Pump and Piping
- Drawbar
- Backlash Eliminator
- Universal Table

## INCLUDED ACCESSORIES

- 1" Milling Arbor & 2 Arbor Supports
- Horizontal & Vertical Manual Draw Bars
- Coolant Pump & Coolant System
- Tool Box & Service Tools
- Automatic Lubrication System
- Chip Tray

# #3 SERIES UNIVERSAL HORIZONTAL MILL

SPECIFICATIONS	#3UH-POA-Q Inch/mm	#3UH-POA-U Inch/mm	#3UHB Inch/mm
TABLE AREA	13.7" x 59" / 350mm x 1500mm		
SWIVEL OF TABLE	+/- 45 degrees		
AUTOMATIC LONGITUDINAL TRAVEL	46" / 1170mm		
AUTOMATIC CROSS TRAVEL	15.75" / 400mm		
AUTOMATIC VERTICAL TRAVEL	18.5" / 470mm		
SPINDLE TAPER	#50 NMT		
MILLING ARBOR DIAMETER	1" / 25mm		
NUMBER OF SPEEDS OF THE SPINDLE	12 (48 - 2160RPM)		
LONGITUDINAL & CROSS FEEDS	(INF. VARIABLE) .04" - 47" IPM / 10mm - 1195mm		
VERTICAL FEEDS	(INF. VARIABLE) 0.2" - 23" / 5mm - 585mm		
MAIN MOTOR	10 HP		
FEED MOTOR	2 HP		
COOLING PUMP	.10 HP		
SPINDLE TAPER	ISO - 50		N/A
NUMBER OF SPEEDS	12		N/A
SPEED RANGE	45 - 1960 RPM		N/A
POWER OVERARM MOTOR	5.5 HP		N/A
UNIVERSAL HEAD QUILL FEED TRAVEL	4" / 100 mm	N/A	N/A
WEIGHT	7,040 lbs	7,040 lbs	6,820 lbs
OVERALL DIMENSION	89" x 70" x 88" / 2,260mm x 1,780mm x 2,235mm		



# RADIAL DRILLS

*The Summit® Radial Drill is designed and manufactured to provide the highest level of rigidity, strength and ease of operation. The column, base, arm and headstock are all precision machined from aged, normalized, closed grain cast iron.*

*The precision ground column is mounted on a fixed base. It is fitted with a large diameter cylindrical roller bearing in the lower end for maintaining position with a combination of a radial roller bearing and a roller thrust bearing in the upper end. This bearing configuration is designed to eliminate radial stress.*

*The engineering excellence, fine craftsmanship, quality materials and impressive specifications of the Summit Radial Drill series combine to provide years of productive, trouble free operation.*

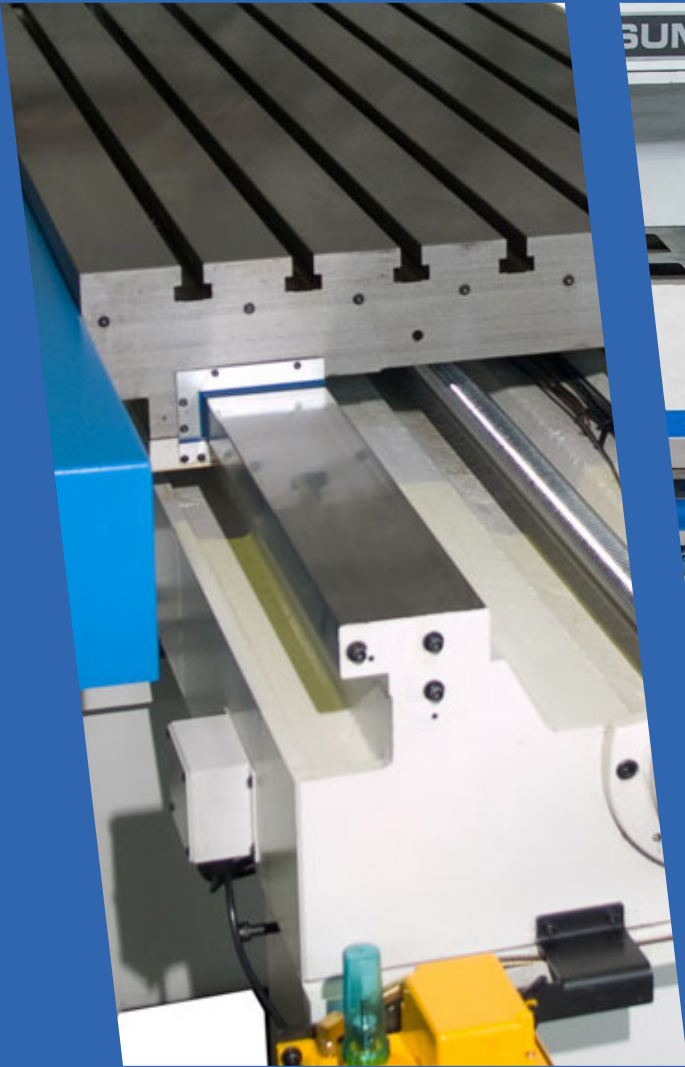
## STANDARD FEATURES

- Precision Ground Column Is Mounted On A Fixed Base
- Precision Spindle, Hardened & Ground
- Hydraulic Clamping On RD6315
- Safety Limit Switches
- Pressurized Lubrication System
- Heavily Ribbed Cast Iron Base And Arm
- Hardened And Ground Gears And Shafts
- Large T-Slotted Base
- Adjustable Clutch With Automatic Depth Stop

## INCLUDED ACCESSORIES

- Work Lamp
- Coolant System
- Anchor Bolts
- Plain Box Table

SPECIFICATIONS	RD 2808 Inch/mm	RD 4312 Inch/mm	RD 6315 Inch/mm
<b>DRILLING CAPACITY</b>	1.5" / 38mm	1.75" / 45mm	2.25" / 57mm
<b>DISTANCE FROM SPINDLE AXIS AND COLUMN</b>	7.5 - 28" / 190mm - 711mm	14" - 43.25" / 356mm - 1099mm	14.5" - 63" / 368mm - 1600mm
<b>COLUMN DIAMETER</b>	8" / 203mm	12" / 305mm	15.375" / 400mm
<b>SPINDLE TAPER</b>	4 MT	4 MT	5 MT
<b>SPINDLE TRAVEL</b>	8.25" / 250mm	8.625" / 315mm	11.75" / 400mm
<b>SPINDLE SPEEDS (NUMBER)</b>	6	9	12
<b>SPINDLE SPEEDS (RANGE)</b>	88 - 1500	49 - 1524	30 - 1580
<b>SPINDLE FEEDS (NUMBER)</b>	3	3	12
<b>SPINDLE FEEDS (IPR)</b>	.003" - .0052" - .009." / .127 - .5mm	.003" - .0137" / .4 - 3.175mm	.0023" - .044" / .4 - 3.175mm
<b>HORIZONTAL TRAVERSE OF SPINDLE</b>	20.5" / 521mm	29.75" / 756mm	48.5" / 1232mm
<b>ARM ELEVATING MOTOR</b>	1 HP	2 HP	2 HP
<b>COOLANT PUMP MOTOR</b>	.1 HP	.1 HP	.1 HP
<b>SPINDLE MOTOR</b>	2 HP	3 HP	7.5 HP





# BORING MILLS

*Every machine in the Summit® family of Horizontal Boring Mills is designed utilizing the latest advancements in machine building technology. We use the highest quality closed grain cast iron for the structural components, controls and drives from the most advanced suppliers. Our electrics and hydraulics come from world-class manufacturers, making part replacement as easy as a trip to your local supply store.*

*The Summit HBM 110 is a general purpose manual boring mill that is designed for ease of operation and durability. It incorporates a 360 degree rotary table on a 2-axis saddle, making a perfect combination for small lot manufacturing, general rework and repair on large or odd shaped work-pieces. The machine has a full 4-axis digital readout system with the display built in to the control panel. Larger hybrid designs are also available in both table and floor types to accommodate work pieces of all sizes.*

*The Summit HBMC 4 and HBMC 110-20T are full function CNC Horizontal Boring Mills designed using Fanuc controls, drives and axis motors along with state of the art electrics and hydraulics to provide years of profitable, trouble free operation. The HBMC 4 is a 4-axis design with a 360 degree positioning rotary table. The HBMC 110-20T is a true 5-axis design with a B axis full contouring rotary table. Both models can be coupled with automatic tool changers, feature rotary tables and large travels. Custom designs are also available for larger travel and floor type.*





# HORIZONTAL BORING MILL

HBM 110, 110-H & HBM 110-FH



## STANDARD FEATURES

- Precision Hardened and Ground Bed Ways
- Precision Ground Ballscrews With Preloaded Double Nuts On X, W & Z Axis
- State Of The Art Electrics With PLC Control
- Full Steel Telescoping Way Covers On X & W Axis
- Air Power Drawbar
- Built-In Rotary Table - 360°
- Four Axis Electronic DRO Included (Incorporated Into The Pendant Display)
- Hydraulic Clamping (X, Y & W Axis)
- Built-in Facing Head (HBM 110-FH)
- Diameter 26"
- Slide Travel (U) -1.8"-5.9"
- Facing Diameter Min/Max 3.9"-37"
- Spindle Speeds (no) Range 2 (Inf. Var.) 10-200RPM

SPECIFICATIONS	HBM110 Inch/mm	HBM110-H Inch/mm	HBM110-FH Inch/mm
DIAMETER OF SPINDLE	4.3" / 110mm		
TAPER OF SPINDLE	#50 NMT		
SPINDLE SPEED (NO.) RANGE	(Infinitely Variable) 20 - 1500 RPM		
VERTICAL TRAVEL - Y AXIS	39.4" / 1000mm	55.1" / 1400mm	54.7"
CROSS TRAVEL OF TABLE - X AXIS	63" / 1600mm	70.8" / 1800mm	70.8"
SADDLE TRAVEL - W AXIS	49.2" / 1250mm	55.1" / 1400mm	55.1"
SPINDLE TRAVEL - Z AXIS	16" / 410mm	21.6" / 550mm	
NUMBER OF FEEDS	INFINITELY VARIABLE		
FEED RANGE (X, Y & W)	.118 - 37.4 IPM		
FEED RANGE (Z AXIS)	.118 - 15.75 IPM		
RAPID TRAVERSE (Z AXIS)	110 IPM / 2800mm/min		
SIZE OF TABLE	31.5" x 39.4" / 800mm x	47.2" x 55.1" / 1200 x 1400mm	
MAXIMUM WEIGHT OF WORKPIECE	6,600 lbs	11,000 lbs	
TABLE HEIGHT FROM FLOOR	49" / 1245mm		
TABLE T-SLOT WIDTH	.875" / 25mm		
ROTATION	MANUAL		
INCREMENT	1 degree		
MAIN DRIVE MOTOR	20 HP		
AXIS FEED MOTOR (X Y & W)	3.9 HP		
SPINDLE FEED MOTOR (Z)	1.75 HP		
ELECTRONICS	220 / 440 / 3 / 60	220 / 440 / 3 / 60	
DIMENSIONS	175" x 154" x 126" / 4445 x 3915 x 3200mm	208" x 161" x 143" / 5285 x 4100 x 3630mm	
WEIGHT	27,500 lbs	32,200 lbs	



## STANDARD FEATURES HBM C4 CNC

- Servo Driven Built-In Indexing Table
- Hydraulic Tool Clamping
- Automatic Lubrication System
- Hardened and Precision Ground Ways (HRC 50-58)
- Ball Screws on X, Y, W & Z Axis
- Infinitely Variable Spindle Speeds
- Infinitely Variable Number of Feeds

## HBM 110-20T & HBM 110-30T

- Heidenhain Linear Scales
- Heidenhain Rotary Encoder on Table
- Hydraulic Tool Clamping
- Automatic Lube to the Ways
- Hydraulic Clamping on Indexing Table
- Hardened and Ground Ways
- Telescoping Steel Way Covers on X & W Axis

# CNC HORIZONTAL BORING MILLS

## HBMC4, HBM110-20T & 30T

SPECIFICATIONS	HBMC4	HBM110-20T	HBM110-30T
DIAMETER OF SPINDLE	4.3" / 110mm	4.3" / 110mm	
TAPER OF SPINDLE	CAT50	CAT 50	
NUMBER OF SPINDLE SPEEDS	(INFINITELY VARIABLE)	(INFINITELY VARIABLE)	
SPINDLE SPEED RANGE	5 - 2500 RPM	5 - 2500 RPM	
HEADSTOCK TRAVEL, VERTICAL (Y AXIS)	55" / 1400mm	70.8" / 1800mm	
CROSS TRAVEL OF TABLE (X AXIS)	78.75" / 2000mm	78.75" / 2000mm	118.1" / 3000mm
LONGITUDINAL TRAVEL (W AXIS)	45.2" / 1150mm	55.1" / 1400mm	
SPINDLE TRAVEL (Z AXIS)	19.6" / 500mm	21.6" / 550mm	
NUMBER OF FEEDS	INFINITELY VARIABLE	INFINITELY VARIABLE	
RANGE OF FEEDS	(X, Y, W) .04 - 236 / (Z) 0.4 - 196 IPM	.04 - 236 IPM	
RAPID TRAVERSE	(X, W) 590 / (Y) 472 / (Z) 196 IPM	394 IPM	
SIZE OF TABLE	(Rotary Table) 39.4" x 39.4"	47" x 59" / 1200mm x 1500mm	
TABLE INDEX	360 degrees	360 degrees	
INCREMENTS	1 degree	.001 degree	
TABLE T-SLOT WIDTH	.875" / 20mm	.875" / 22mm	
MAX. TABLE LOAD	6,600 lbs / 2995 kg	11,000 lbs	
MAIN DRIVE MOTOR	30 HP	30 HP	
ELECTRONICS	220 / 3 / 60	220 / 3 / 60	
SERVO LINEAR AXIS FEED MOTOR	8 HP	8 HP	
SERVO SPINDLE FEED MOTOR	9.4 HP	9.4 HP	
DIMENSIONS (L x W x H)	193" x 200" x 142" 4900mm x 5080mm x 3605mm	217" x 177" x 159" 5510 x 4495 x 4040mm	217" x 216" x 159" 5510 x 5490 x 4040mm
WEIGHT	39,600 lbs	52,800 lbs	54,800 lbs



# HEAVY DUTY HORIZONTAL BORING MILL HTM SERIES

## STANDARD FEATURES

- Modular Travels
- Heavily-Ribbed Closed Grain Cast Iron Construction, Heat-Treated And Stress-Relieved
- Hardened And Precisioned Ground Steel Ways (As Option)
- Angular Contact Bearing Spindle Cartridge Headstock
- Limit Switches On All Axes
- Easy Access Programmable Electrics
- Built-In Rotary Table

## OPTIONAL EQUIPMENT

- Facing Head
- Vertical Attachment
- Coolant System
- Coolant Thru
- Spindle Support
- Tailstock
- Heavy Duty Rotary Table
- Installation Assistance

SPECIFICATIONS	HTM4H-S Inch/mm	HTM4H Inch/mm	HTM5H Inch/mm
DIAMETER OF SPINDLE	4.125" / 105mm	4.125" / 105mm	5" / 125mm
TAPER OF SPINDLE	#50	#50	#50
NUMBER OF SPINDLE SPEEDS	INFINITELY VARIABLE	INFINITELY VARIABLE	INFINITELY VARIABLE
SPINDLE SPEED RANGE	10-1800 RPM	10-1800 RPM	10-1800 RPM
SPINDLE TRAVEL (W AXIS)	31.5" / 800mm	31.5" / 800mm	31.5" / 800mm
VERTICAL HEADSTOCK (Y AXIS)	47" / 1200mm	61" / 74.8" 1550/1900mm	78" / 2000mm
CROSS TRAVEL OF TABLE (X AXIS)	70.8" / 1800mm	86" / 106" 2200/2700mm	100"/122"/143" 2500/3100/3650mm
SADDLE TRAVEL W/O TAILSTOCK	59" / 1500mm	65"/84"/104" 1650/2150/2650mm	65"/84"/104" 1650/2150/2650mm
NUMBER OF FEEDS	INFINITELY VARIABLE	INFINITELY VARIABLE	INFINITELY VARIABLE
THREADS PER INCH/METRIC THREADS	PROGRAMMABLE	PROGRAMMABLE	PROGRAMMABLE
RAPID TRAVERSE	118 IPM / 3000mm/min	118 IPM / 3000mm/min	118 IPM / 3000mm/min
SIZE OF TABLE	55" x 55" 1400 x 1400mm	55" x 63" 1400 x 1600mm	70" x 78" 1800 x 2000mm
TABLE POSITION ONLY	360°	360°	360°
T-SLOT WIDTH	7/8" / 22mm	7/8" / 22mm	1.1" / 28mm
FLOOR TO TOP OF TABLE HEIGHT	45.5" / 1155mm	45.5" / 1155mm	47.5" / 1185mm
MAX. WEIGHT OF WORKPIECE	13,200 lbs. / 6,000 kg	13,200 lbs. / 6,000 kg	26,500 lbs. / 12,000 kg
TABLE MOVEMENT	PROGRAMMABLE	PROGRAMMABLE	PROGRAMMABLE
COLUMN - WIDTH OF WAYS	5.5" / 140mm	5.5" / 140mm	5.5" / 140mm
COLUMN - NUMBER OF WAYS	2	2	2
COLUMN - WIDTH ACROSS WAYS	27.5" / 700mm	27.5" / 700mm	27.5" / 700mm
SADDLE & BASE - WIDTH OF WAYS	7.5" / 190mm	7.5" / 190mm	7.5" / 190mm
SADDLE & BASE - NUMBER OF WAYS	2	2	2
SADDLE & BASE - WIDTH ACROSS WAYS	39.5" / 1000mm	39.5" / 1000mm	39.5" / 1000mm
MAIN DRIVE MOTOR	20 HP / 15kw	22 / 30 HP 17 / 22kw	40 / 50 HP 28 / 37kw
ELECTRICS	220/440/3/60	220/440/3/60	220/440/3/60
WEIGHT (APPROX.)	32,000 lbs / 14,500kg	48,400 lbs / 22,000kg	57,200 lbs / 26,000kg



**VERTICAL  
BORING MILLS  
SCV & DCV SERIES**



## STANDARD FEATURES

- High precision ballscrews for vertical and horizontal head movement
- Precision, hardened and ground gearing
- Power rapid traverse to all heads
- Constant surface speed controlled through PLC as standard feature
- Programmable taper, threading & radii
- Centralized full electric pendant control panel for all operations mounted on a swiveling pendant arm w/ built in DRO
- Full length Turcite® tapered gibbing
- All axis are driven by servo motors thru 1/7 Alpha Reducers
- Smooth, vibration-free turning
- Heat treated and stress relieved closed grain castings
- Large diameter Timken type taper roller bearing
- Axial and radial T.I.R. of 0.0005"

## INCLUDED ACCESSORIES

- One vertical head with indexing pentagonal turret or ram
- One side head with standard tool holder (optional)
- One vertical plain ram (9.5" x 9.5" cross section) head (60" models and up)
- Precision hardened and ground crossrail guideways
- Totally enclosed electrical equipment cabinet with state of the art PLC & AC unit
- Pressurized lubrication system throughout with oil sight gauges
- Set of four (4) reversible table jaws

SPECIFICATIONS	SCV60 Inch/mm	DCV80 Inch/mm	DCV120 Inch/mm
<b>MAXIMUM DIAMETER OF SWING</b>	65" / 1650mm	84.6" / 2200mm	128" / 3250mm
<b>MAXIMUM DIAMETER OF SWING WITH SIDE HEAD</b>	61" / 1550mm	82.6" / 2100mm	122" / 3100mm
<b>MAXIMUM MACHINING HEIGHT ABOVE TABLE</b>	47" / 66.75" 1200 / 1700mm	59" / 78" 1499 / 2000mm	98" / 118" 2490 / 3000mm
<b>MAXIMUM WEIGHT OF WORKPIECE</b>	17,640 lbs. / 8,000kg	26,500 lbs. / 12,020kg	40,000 lbs. / 18,145kg
<b>TABLE DIAMETER</b>	57" / 1450mm	78" / 2000mm	118" / 3000mm
<b>TABLE SPEED (INFINITELY VARIABLE)</b>	2 - 220 RPM	1.55 - 150 RPM	1.0 - 100 RPM
<b>VERT. HEADS NO. (LH PLAIN, RH PENT. TUR)</b>	1	1 or 2	1 or 2
<b>SWIVEL OF EACH VERTICAL HEAD</b>	+/- 35 degrees	+/- 35 degrees	+/- 35 degrees
<b>VERTICAL TRAVEL RIGHT HAND TURRET</b>	29.9" / 760mm	29.9" / 760mm	29.9" / 760mm
<b>VERTICAL TRAVEL LEFT HAND BORING RAM</b>	39.9" / 1000mm	47"/59" / 1200/1500mm	59" / 1500mm
<b>VERTICAL TRAVEL OF SIDE HEAD</b>	39.37/47" 1000 / 1200mm	47.24"/70.84" 1200 / 1800mm	90" / 2300mm
<b>HORIZONTAL TRAVEL OF SIDE HEAD</b>	27.5" / 700mm	27.5" / 700mm	39" / 1000mm
<b>VERTICAL TRAVEL OF CROSS RAIL</b>	35.4" / 55" 900 / 1400mm	39.37" / 59" 1000 / 1500mm	78.7"/98" 2000/2500mm
<b>FEEDS - VERTICAL &amp; SIDE HEADS - (NO.) RANGE</b>	(16) .002 - .200 IPR	(16) .002 - .196 IPR	(16) .002 - .196 IPR
<b>RAPID TRAVERSE FOR ALL HEADS</b>	118 IPM	118 IPM	118 IPM
<b>MAIN DRIVE MOTOR (AC BRUSHLESS)</b>	75 / 100 HP	100 HP	75 / 100 HP
<b>RAIL ELEVATING MOTOR</b>	7.5 HP	10 HP	10 HP
<b>SERVO MOTORS</b>	4 HP	4 HP	4 HP
<b>DIMENSIONS (L x W x H)</b>	138" x 150" x 182" / 3500 x 3810 x 4625mm	169" x 165" x 181" / 4300 x 4200 x 4600mm	208" x 220" x 212" / 5300 x 5600 x 5400mm
<b>WEIGHT (APPROX.)</b>	52,000 lbs / 25,585kg	76,000 lbs / 34,475kg	108,000 lbs / 49,000kg

# PARTS & SERVICE

## Supplies, Parts and Accessories

*Nothing will slow you down with Summit on your side. We have a dedicated parts team and a million dollar inventory of ready-to-ship machine tool supplies, parts and machine tool accessories. Fast access to spare and replacement parts will help you control costs, protect capital investments, extend the life of equipment and maintain production levels.*

*Our extensive inventory of quick-ship parts and accessories includes components for all of our top selling equipment. Whether you need lathe parts, drill parts or mill parts for your machine tools supply, we've got you covered!*

## Exceptional Service

*As one of the world's largest providers of precision machine tools, we know you need a trusted resource to answer your questions, offer technical support and troubleshoot problems you may encounter. Our machine tool repair experts are available and ready to help you out.*

*We are here to help with:*

- Installation Services*
- Machine Tool Calibration*
- Rebuilding and Reconditioning/Retrofitting*

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**POINT OF OPERATION GUARDING** is the responsibility of the end user. For information contact your local OSHA office.

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