

CATALOGUE 2026

Edition : 2

**LARGEST DISPLAY  
OF MACHINERY  
IN INDIA**

**WORKSHOP & TOOLROOM MACHINES  
SOLUTION WITH DIFFERENCE**



**BHAVYA**®

An ISO 9001: 2015 Certified Company

International Branches:



[www.bhavyamachinetools.com](http://www.bhavyamachinetools.com)



KENYA



U.A.E

Rubbing shoulders with the best in the country, Bhavya Machine Tools stands today as an established and trusted name in the field of Engineering Workshop Machinery. For decades, the company has been serving industries worldwide with sturdy, technologically advanced, and high-performance machinery. Its constant endeavour has been to bring emerging technology to India and to lead with innovation.

From its humble beginnings as a small-scale business on Relief Road in Old City Ahmedabad, Bhavya Machine Tools has grown into a significant industry leader—now operating from a state-of-the-art office on the elite SBR road. This journey has been powered by the relentless determination of brothers Jatin Shah and Rohit Shah, supported by a team that embraces new challenges and places customer requirements at the heart of every decision. With an ever-expanding product line and network, Bhavya continues to strengthen its presence across markets.

Bhavya's success is built on uncompromising quality standards, decades of experience, and the ability to deliver excellent solutions backed by superior service. Truly, it offers "a solution with a difference."

"The journey of Bhavya Machine Tools began 50 years ago when our father, Mr. Kirtibhai Shah, pioneered the business on a small scale at Relief Road. When we joined in 1991, we had absolutely no technical education," shares Jatin. "Yet, with determination and a vision for growth, we have worked tirelessly to make Bhavya Machine Tools a leader in providing cutting-edge technical solutions."

Speaking about the company's strategy, Jatin adds, "Our constant endeavor is to explore how emerging technology can be brought to India. Innovation is at the core of Bhavya's strategy. To achieve this, we actively participate in major exhibitions across India and the Gulf. These platforms keep us updated on the latest global technologies and help us introduce them to the Indian market, bridging existing gaps. At the same time, we showcase the capabilities of small-scale Indian manufacturers to the world—manufacturers who often lack the reach to market their products internationally."

Despite an expansive product basket and a vast network of industrial clients, the brothers' passion for growth remains undiminished.

Rohit highlights, "Customer requirements are paramount. When we receive an inquiry for a tool we do not have, we immediately deploy a team to study whether we can procure or develop it. This mindset is the reason our product portfolio continues to grow. Our team is ever-ready to take on new challenges. With such a hardworking and dedicated team, Bhavya stands where it is today—and we are immensely proud of that."



**LATE SHRI. KIRTIKUMAR SHAH**  
(Founder - Bhavya Machine Tools)

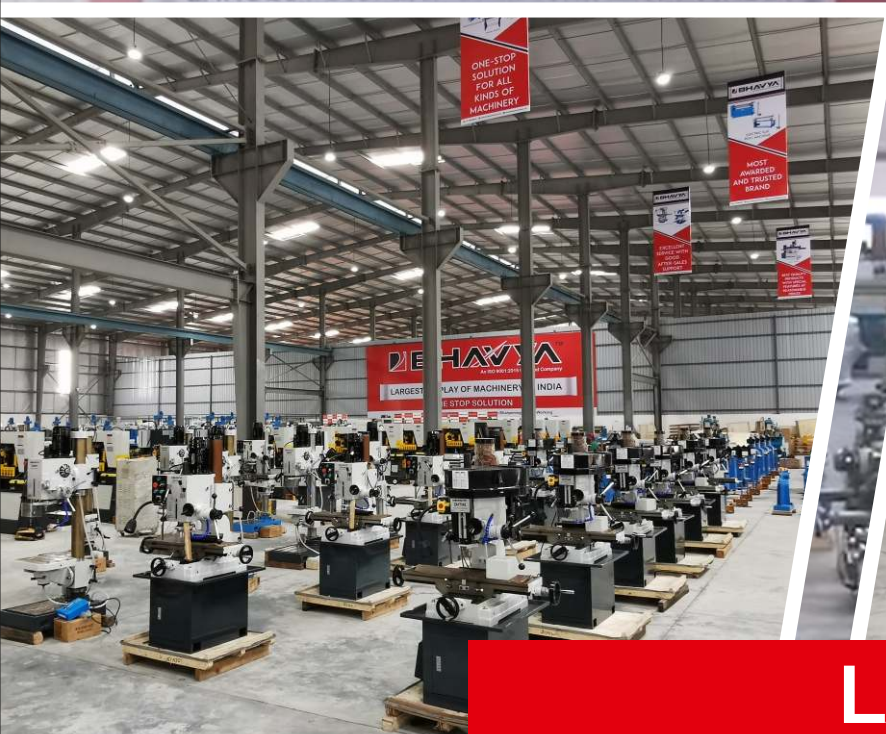


**Jatin Shah & Rohit Shah**

# BHAVYA

An ISO 9001:2015 Certified Company

LARGEST DISPLAY OF MACHINERY IN INDIA



## LARGEST DISPLAY OF MACHINERY IN INDIA



# AWARDS AND ACHIEVEMENTS



## TV9 CSR Excellence Award

Our directors, Jatin Shah and Rohit Shah, received the TV9 CSR Excellence – For A Better Society award, presented by the then Gujarat Chief Minister, Late Mr. Vijay Rupani, honoring our company's impactful CSR contributions.



## Divya Bhaskar Artist of Enterprise

Our story was featured in Divya Bhaskar's book "The Artist of Enterprise," which highlights leading entrepreneurs in Gujarat and recognizes our directors, Jatin and Rohit Shah, for their contributions to the machine tools industry.



## Mantavya News Awards

Honoured with The Leaders Award in the Machine Tools Category from the respected minister of Energy of Gujarat Mr. Saurabhbhai Patel.



## Ace Achievers - Making a Difference

We were honored as an "Ace Achiever" in 2019 by TV9 and Gujarat Chief Minister Vijay Rupani for our leadership and impact in the machine tools industry

for more information, scroll on

 [www.bhavyamachinetools.com](http://www.bhavyamachinetools.com)

 **BHAVYA**<sup>®</sup>

# AWARDS AND ACHIEVEMENTS



## ABP Gujarat's Anmol Ratna

Honoured with the renowned Gujarat's Anmol Ratna Certification of Recognition, from ABP Asmita on 5th March 2022, for our work in the field of highly precise and innovative machine tools that contribute to the progress of Gujarat.



## ZEE 24 Kalak Mahasanman

Received an award at Zee 24 Kalak Mahasanman on March 26, 2022 from the honorable Chief Minister of Gujarat, Shri Bhupendra Patel in the MSME category for the contribution to Gujarat's growth and development.



## Machine Tools World

One of the most leading publications focused on machine tools and allied sectors- "Machine Tools World", recognised our company in its November 2021 issue for our committed work in the field of Engineering Machine Tools.



## ABP Asmita Sanman Puraskar

Pleased to be a part of the renowned ABP Asmita Sanman puraskar for the Icons of Gujarat, which took place in the presence of Gujarat's Chief Minister, Shri Bhupendra Patel.

# AWARDS AND ACHIEVEMENTS



## Global Excellence Award

Won the Global Excellence Award 2025, which was presented by bollywood actress Mrs. Kajol Devgan where our company was recognised for most Reliable Engineering Workshop Machinery Company in Ahmedabad



## Vikasit Bharat Leadership Summit

Presented with an award by Hon'ble Union Minister Shri Nitin Gadkari ji as the Most Reliable Engineering Workshop Machinery Company at the Vikasit Bharat Leadership Summit 2025, an event organised by leading news channel Bharat24.



## Ahmedabad Mirror

Recognised with the Excellence in Engineering Workshop Machinery award by Ahmedabad Mirror at Mirror Celebrates Gujarat's MSMEs



## ET Now Awards

Honored with ET Now's Leaders of Navbharat award for Most Reliable Engineering Workshop Machinery, presented by Shree C. R. Patil to directors Jatin Shah and Rohit Shah.

for more Information, scroll on

 [www.bhavyamachinetools.com](http://www.bhavyamachinetools.com)

 **BHAVYA**<sup>®</sup>

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## WORKSHOP IN TOOLROOM MACHINE

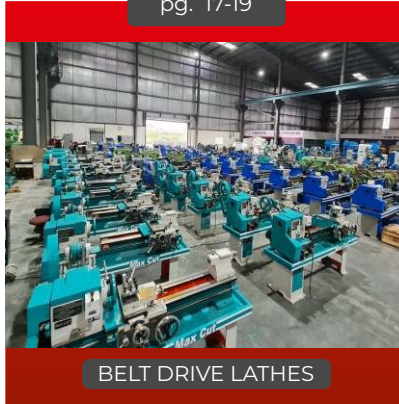
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ALL GEARED LATHES

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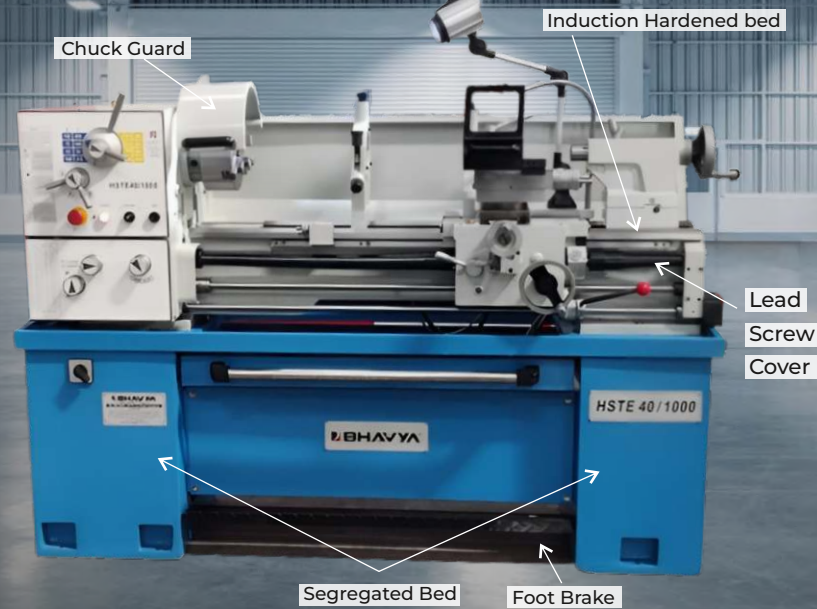


OTHERS

Shaping, Slotting, Bolt Threading,  
Hydraulic Thread & Form Rolling,  
Universal Tool & Cutter Grinder,  
Cylindrical & Centerless Grinder,

# LATHE

## ALL GEARED LATHE MACHINE



### PARTICULARS / MODEL

PARTICULARS / MODEL	HSTE40/1000/E	HSTE40/1000
Center Of Height	205mm	205mm
Swing Over bed	410mm	410mm
Swing Over Cross slide	268mm	268mm
Swing in Gap Diameter	540mm	540mm
Admit Between Center	1000mm	1000mm
Width of bed	206mm	206mm
Spindle nose, internal taper	D1-4, MT5	D1-5, MT6
Spindle bore	38mm	51mm
Range of spindle speed	16/45-1800rpm	16/45-1800rpm
Compound Slide travel	164mm	164mm
Top Slide travel	97mm	97mm
Metric threads: kinds/range	0.4-7.0mm (37)	0.4-7.0mm (37)
Imperial threads: kinds/range	4-56TPI (28)	4-56TPI (28)
Longitudinal feeds	0.043-0.653mm/rev (42)	0.043-0.653mm/rev (42)
Cross feeds	0.027-0.413mm/rev	0.027-0.413mm/rev
Lead Screw pitch	4mm	4mm
Tailstock quill diameter	45mm	45mm
Tailstock quill travel	110mm	110mm
Taper of taistock quill	MT-3	MT-3
Motor Power	1.5/2.4 kw	1.5/2.4 kw
Coolant pump	0.08kw	0.08kw
Machine Dimensions (L x W x H)	1940x860x1510mm	1940x860x1510mm
Net Weight (Approx)	700kg	750kg

### STANDARD ACCESSORIES

- 200mm x 3 Jaw Self-Centering Chuck
- 250mm x 4 Jaw Independent Chuck
- Steady Rest (10-130mm)
- Follow Rest (10-100mm)
- Face Plate
- Toolbox
- Foot Brake
- Coolant System
- Machine Lamp
- Centres
- Reduction Sleeves
- Changing Gears
- Machine Base

### OPTIONAL ACCESSORIES

- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key way milling Attachment
- ½ Drill Chuck With Socket
- 2 Axis DRO (Digital Read Out) Unit with High Precision Scales & fittings,
- 6" Cap Tool post grinder with 1 HP 3 Phase electrical motor
- Revolving center MT-4



Chuck Safety Guard



Tool Post Guard



Tool Box



Machine Lamp



Steady Rest



Follow Rest



OPTIONAL - DRO

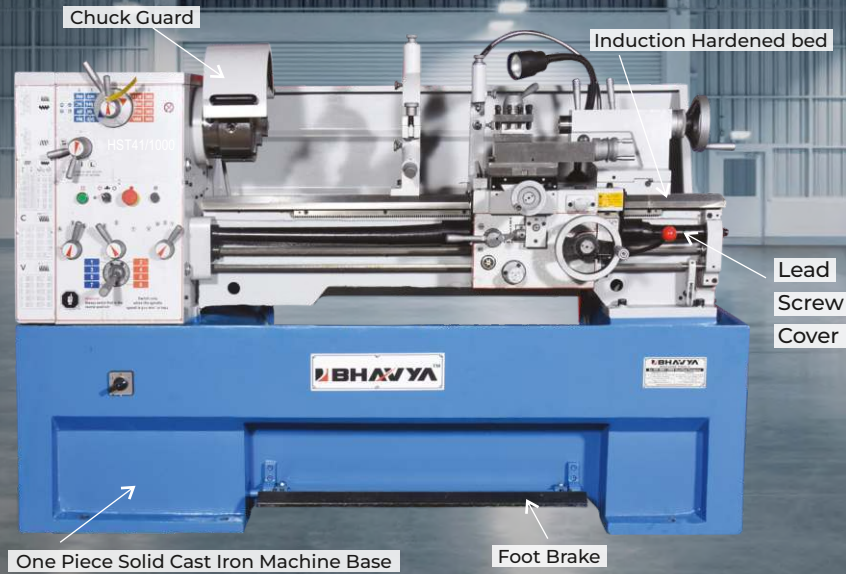


Speed & Feed Control Box with Metric, Imperial, Dp & module Thread Range

Specifications are subject to changed without prior notice.

# LATHE

## HIGH SPEED ALL GEARED LATHE MACHINE



PARTICULARS/MODEL	HST41/1000	HST41/1500
Center Height	205mm	205mm
Swing Over Bed	410mm	410mm
Swing Over Cross Slide	255mm	255mm
Swing in Gap	580mm	580mm
Length of Gap	250mm	190mm
Width of Bed	250mm	250mm
Admits Between Center	1000mm	1500mm
Spindle Nose	D1-6	D1-6
Spindle Bore	52mm	52mm
Taper of Spindle Nose	MT-6	MT-6
Spindle Speed	16/45-1800rpm	16/45-1800rpm
Compound Rest Travel	140mm	140mm
Cross Slide Travel	210mm	210mm
Lead Screw Thread	4-TPI	4-TPI
Tool Shank Size	20x20mm	20x20mm
Longitudinal Feeds	17/0.05-1.7mm/rev.	0.05-1.7mm/rev.
Cross Feeds	0.025-0.85mm/rev.	0.025-0.85mm/rev.
Metric Thread	42/0.2-14mm	39/0.2-14mm
Imperial Thread	45/2-72TPI	45/2-72TPI
Diametrical Thread	21/8-44DP	21/8-44DP
Module Thread	18/0.3-3.5MP	18/0.3-3.5MP
Tail Stock Quill Diameter	50mm	50mm
Tail Stock Quill Travel	120mm	120mm
Tail Stock Quill Taper	MT-4	MT-4
Main Motor Power	2.2/3.3KW(3/4.5 HP)3 PH	2.2/3.3KW(3/4.5 HP)3 PH
Coolant Pump Power	0.1KW (1/8HP) 3PH	0.1KW (1/8HP) 3PH
Overall Dimensions (LxWxH)	1940x850x1320mm	2060x850x1320mm
Net Weight (Approx)	1060kgs	1340kgs

### STANDARD ACCESSORIES

- 200mm x 3 Jaw Self-Centering Chuck
- 250mm x 4 Jaw Independent Chuck
- Steady Rest (10-130mm)
- Follow Rest (10-100mm)
- Face Plate 350mm dia
- Toolbox
- Foot Brake
- Coolant System
- Machine Lamp
- Centres
- Reduction Sleeves
- Changing Gears
- Machine Base

### OPTIONAL ACCESSORIES

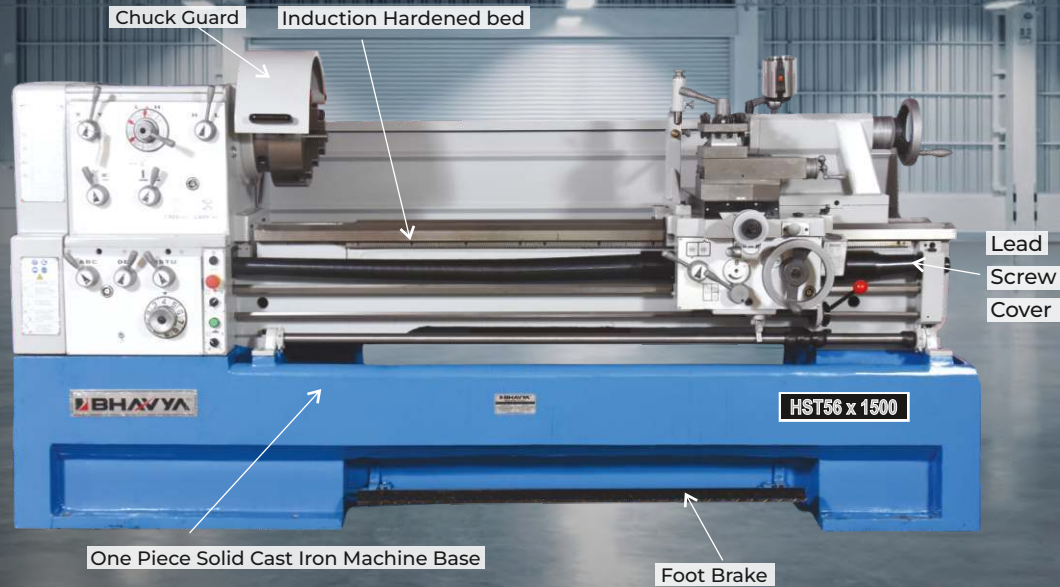
- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key way milling Attachment
- ½ Drill Chuck With Socket
- 2 Axis DRO (Digital Read Out) Unit with High Precision Scales & fittings,
- 6" Cap Tool post grinder with 1 HP 3 Phase electrical motor
- Revolving center MT-4



Specifications are subject to changed without prior notice.

# LATHE

## HIGH SPEED ALL GEARED LATHE MACHINE



MODEL	HST51	HST56
Center Height	255mm	280mm
Swing Over Bed	510mm	560mm
Swing Over Cross Slide	305mm	355mm
Swing in Gap	735mm	785mm
Length of Gap		270mm
Width of Bed		350mm
Admits Between Center	1000/1500/2000/3000mm	
Spindle Nose	D1-8	
Spindle Bore	80mm	
Spindle Speed	12/25-1600rpm	
Compound Rest Travel	130mm	
Cross Slide Travel	315mm	
Lead Screw Thread	6mm/4-TPI	
Tool Shank Size	25x25mm	
Longitudinal Feeds	35/0.059-1.646mm/rev.	
Cross Feeds	35/0.020-0.573mm/rev.	
Metric Thread	47/0.1-14mm	
Imperial Thread	60/2-112TPI	
Diametrical Thread	50/4-112DP	
Module Thread	39/0.1-7MP	
Tail Stock Quill Diameter	75mm	
Tail Stock Quill Travel	180mm	
Tail Stock Quill Taper	MT-5	
Main Motor Power	7.5Kw	
Coolant Pump Power	0.1kW	
Overall Dimensions (LxWxH)	2390x1150x1430mm	2390x1150x1460mm
	2840x1150x1430mm	2840x1150x1460mm
	3340x1150x1430mm	3340x1150x1460mm
	4340x1150x1430mm	4340x1150x1460mm
Net Weight (Approx)	2070kgs	2195kgs
	2160kgs	2285kgs
	2435kgs	2560kgs
	2805kgs	2930kgs

### STANDARD ACCESSORIES

- 315mm x 3 Jaw Self-Centering Chuck
- 350mm x 4 Jaw Independent Chuck
- Steady Rest (19-165mm)
- Follow Rest (16-95mm)
- Face Plate 450mm dia
- Toolbox
- Foot Brake
- Coolant System
- Machine Lamp
- Centres
- Reduction Sleeves
- Changing Gears
- Machine Base

### OPTIONAL ACCESSORIES

- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key way milling Attachment
- ½ Drill Chuck With Socket
- 2 Axis DRO (Digital Read Out) Unit with High Precision Scales & fittings,
- 8" Cap Tool post grinder with 1 HP 3 Phase electrical motor
- Revolving center MT-5



Chuck Safety Guard



Tool Post Guard



Tool Box



Machine Lamp



Steady Rest



Follow Rest



Speed & Feed Control Box with Metric, Imperial, Dp & module Thread Range

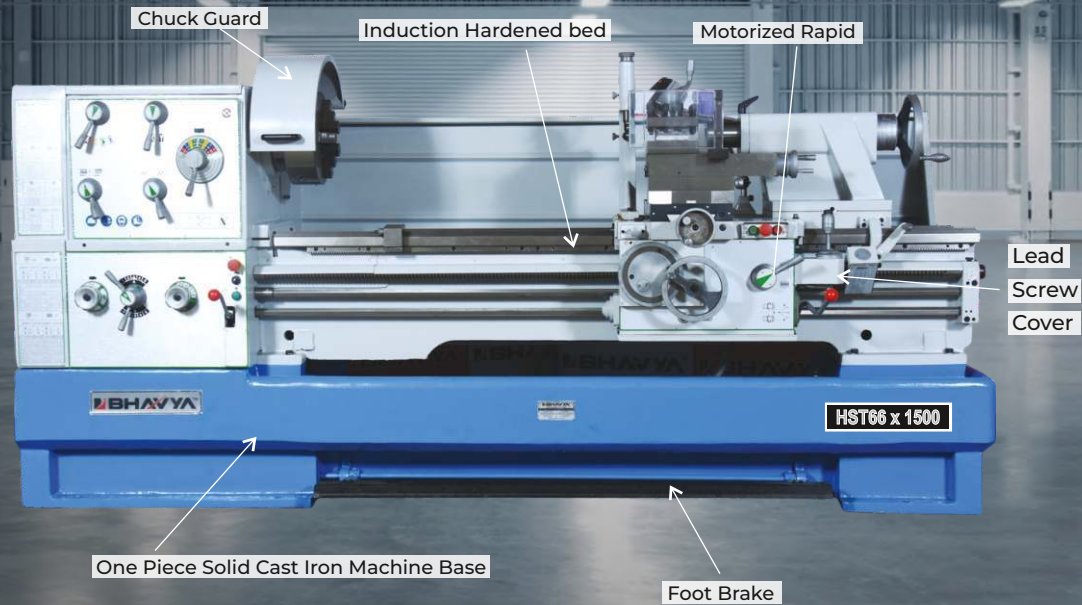


OPTIONAL - DRO

Specifications are subject to changed without prior notice.

# LATHE

## HIGH SPEED ALL GEARED LATHE MACHINE



MODEL	HST66	HST80
Center Height	330mm	400mm
Swing Over Bed	660mm	800mm
Swing Over Cross Slide	440mm	570mm
Swing in Gap	900mm	1035mm
Length of Gap		340mm
Width of Bed		400mm
Admits Between Center		1500/2000/3000mm
Spindle Nose		D1-8
Spindle Bore		105mm
Spindle Speed		16/25-1600rpm
Compound Rest Travel		230mm
Cross Slide Travel	365mm	420mm
Lead Screw Thread		12mm/2-TPI
Tool Shank Size		30x30mm
Longitudinal Feeds		25/0.044-1.48mm/rev.
Cross Feeds		25/0.033-0.74mm/rev
Metric Thread		54/0.45-120mm
Imperial Thread		54/7/16-80TPI
Diametrical Thread		42/7/8-160DP
Module Thread		46/0.25-60MP
Tail Stock Quill Diameter		85mm
Tail Stock Quill Travel		235mm
Tail Stock Quill Taper		MT-5
Main Motor Power		7.5Kw
Coolant Pump Power		0.1kW
Overall Dimensions (LxWxH)	3210x1230x1600mm	3210x1230x1670mm
	3710x1230x1600mm	3710x1230x1670mm
	4710x1230x1600mm	4710x1230x1670mm
Net Weight (Approx)	3065kgs	3175kgs
	3345kgs	3455kgs
	3710kgs	3820kgs

### STANDARD ACCESSORIES

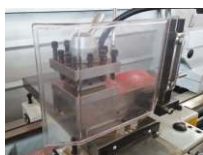
- 315mm x 3 Jaw Self-Centering Chuck
- 400mm x 4 Jaw Independent Chuck
- Steady Rest (20-190mm)
- Follow Rest (20-130mm)
- Face Plate 450mm dia
- Toolbox
- Foot Brake
- Coolant System
- Machine Lamp
- Centres
- Reduction Sleeves
- Changing Gears
- Machine Base

### OPTIONAL ACCESSORIES

- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key way milling Attachment
- ½ Drill Chuck With Socket
- 2 Axis DRO (Digital Read Out) Unit with High Precision Scales & fittings,
- 10" Cap Tool post grinder with 1.5 HP 3 Phase electrical motor
- Revolving center MT-5



Chuck Safety Guard



Tool Post Guard



Tool Box



Machine Lamp



Steady Rest



Follow Rest



Speed & Feed Control Box with Metric, Imperial, Dp & module Thread Range



OPTIONAL - DRO

Specifications are subject to changed without prior notice.

# LATHE

## ALL GEARED EXTRA HEAVY DUTY LATHE



PARTICULARS/MODEL	HSTH80	HSTH110	HSTH125
Center Height	400mm	550mm	625mm
Swing Over Bed	800mm	1100mm	1250mm
Swing Over Cross Slide	480mm	800mm	920mm
Swing in Gap	1000mm	1300mm	1450mm
Length of Gap	300mm	300mm	300mm
Width of Bed	600mm	600mm	600mm
Max. Weight of Work Piece	2500Kg.	2500Kg.	2500Kg.
Admit Between Centre	1500/3000/5000/6000/8000/10000mm	1500/3000/5000/6000/8000/10000mm	1500/3000/5000/6000/8000/10000mm
Spindle Nose	D-11	D-11	D-11
Spindle Bore	105mm	105mm	105mm
Spindle Speed	18/5.4-720rpm	18/4.8-640rpm	18/4.8-640rpm
Compound Rest Travel	200mm	200mm	200mm
Cross Slide Travel	500mm	500mm	500mm
Lead Screw Thread	12mm	12mm	12mm
Tool Shank Size	40mm x 40mm	40mm x 40mm	40mm x 40mm
Longitudinal Feeds	64/0.05-24.3mm/rev.	64/0.05-24.3mm/rev.	64/0.05-24.3mm/rev.
Cross Feeds	64/0.025-12.15mm/rev.	64/0.025-12.15mm/rev.	64/0.025-12.15mm/rev.
Rapid Speed of Carriage	3740mm/min.	3740mm/min.	3740mm/min.
Rapid Speed of Cross Slide	1870mm/min.	1870mm/min.	1870mm/min.
Metric Thread	50/1-240mm	50/1-240mm	50/1-240mm
Imperial Thread	26/1-14TPI	26/1-14TPI	26/1-14TPI
Diametrical Thread	24/1-28DP	24/1-28DP	24/1-28DP
Module Thread	53/0.5-120MP	53/0.5-120MP	53/0.5-120MP
Tail Stock Quill Diameter	90mm	90mm	90mm
Tail Stock Quill Travel	250mm	250mm	250mm
Tail Stock Quill Taper	MT-5	MT-5	MT-5
Main Motor Power	11kW	11kW	11kW
Rapid Motor Power	1.1kW	1.1kW	1.1kW
Coolant Pump Power	0.1kW	0.1kW	0.1kW

### STANDARD ACCESSORIES

- 4 Jaws Independent dog chuck
- Chuck wrench
- Steady rest
- Follow rest
- Leveling iron pads
- Tool rest wrench
- Coolant system
- Lubricating system
- Foundation bolt
- Machine lamp
- Manual book

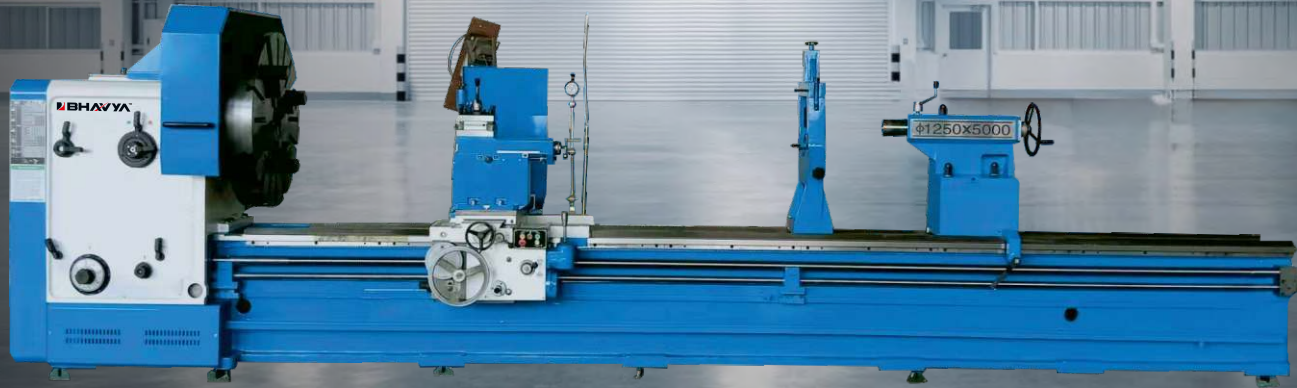
### OPTIONAL ACCESSORIES

- 3 Jaw Self-centering true chuck
- Quick change tool post
- Taper turning attachment
- 2 Axis DRO
- Key way milling attachment
- Revolving center - MT6

Specifications are subject to changed without prior notice.

# LATHE

## ALL GEARED EXTRA HEAVY DUTY LATHE



PARTICULARS/MODEL	HSTH1258	HSTH160B
Center Height	625mm	800mm
Swing Over Bed	1250mm	1600mm
Swing Over Cross Slide	860mm	1200mm
Width of Bed	755mm	755mm
Max. Weight of Work Piece	6000Kg.	6000Kg.
Admit Between Centre	1500/3000/5000/6000/8000/10000/12000mm	1500/3000/5000/6000/8000/10000/12000mm
Spindle Nose	Metric 140	Metric 140
Spindle Bore	130mm	130mm
Spindle Speed	21/3.15 - 315rpm	21/3.15-315rpm
Compound Rest Travel	300mm	300mm
Cross Slide Travel	630mm	630mm
Tool Shank Size	45mm x 45mm	45mm X 45mm
Longitudinal Feeds	56/0.1 - 12mm/rev.	56/0.1-12mm/rev.
Cross Feeds	56/0.05 - 6mm/rev.	56/0.056mm/rev.
Rapid Speed of Carriage	3740mm/min.	3740mm/min.
Rapid Speed of Cross Slide	1870mm/min.	1870mm/min.
Rapid Speed of Tool Slide	935mm/min.	935mm/min.
Metric Thread	44/1-120mm	44/1-120mm
Imperial Thread	31/24-1/4TPI	31/24-1/4TPI
Diametrical Thread	38/56-1/2DP	38/56-1/2DP
Module Thread	45/0.5-60MP	45/0.5-60MP
Tail Stock Quill Diameter	160mm	160mm
Tail Stock Quill Travel	300mm	300mm
Tail Stock Quill Taper	MT-6	MT-6
Main Motor Power	22kW	22kW
Rapid Motor Power	1.5kW	1.5kW
Coolant Pump Power	0.1kW	0.1kW

### STANDARD ACCESSORIES

- 4 Jaws Independent dog chuck
- Chuck wrench
- Steady rest
- Follow rest
- Leveling iron pads
- Tool rest wrench
- Coolant system
- Lubricating system
- Foundation bolt
- Machine lamp
- Manual book

### OPTIONAL ACCESSORIES

- 3 Jaw Self-centering true chuck
- Quick change tool post
- Taper turning attachment
- 2 Axis DRO
- Key way milling attachment
- Revolving center - MT6

Specifications are subject to changed without prior notice.

# LATHE

## ALL GEARED EXTRA HEAVY DUTY LATHE



PARTICULARS/MODEL	HSTH160	HSTH200
Center Height	800mm	1000mm
Swing Over Bed	1600mm	2000mm
Swing Over Cross Slide	1200mm	1580mm
Width of Bed	1100mm	1100mm
Max. Weight of Work Piece	16000Kg	16000Kg
Admit Between Centre	3000/5000/6000/8000/10000/12000mm	3000/5000/6000/8000/10000/12000mm
Spindle Nose	Metric 140	Metric 140
Spindle Bore	130mm	130mm
Spindle Speed	21/2 - 200rpm	21/2-200rpm
Compound Rest Travel	300mm	300mm
Cross Slide Travel	950mm	950mm
Tool Shank Size	45mm x 45mm	45mm x 45mm
Longitudinal Feeds	56/0.1-12mm/rev.	56/0.1-12mm/rev.
Cross Feeds	56/0.25-3mm/rev.	56/0.25-3mm/rev.
Rapid Speed of Carriage	3740mm/min.	3740mm/min.
Rapid Speed of Cross Slide	1870mm/min.	1870mm/min.
Rapid Speed of Tool Slide	935mm/min.	935mm/min.
Metric Thread	44/1-120mm	44/1-120mm
Imperial Thread	31/24-1/4TPI	31/24-1/4TPI
Diametrical Thread	38/56-1/2DP	38/56-1/2DP
Module Thread	45/0.5-60MP	45/0.5-60MP
Tail Stock Quill Diameter	180mm	180mm
Tail Stock Quill Travel	300mm	300mm
Tail Stock Quill Taper	Metric 80	Metric 80
Main Motor Power	22kW	22kW
Rapid Motor Power	1.5kW	1.5kW
Coolant Pump Power	0.1kW	0.1kW

### STANDARD ACCESSORIES

- 4 Jaws Independent dog chuck
- Chuck wrench
- Steady rest
- Follow rest
- Leveling iron pads
- Tool rest wrench
- Coolant system
- Lubricating system
- Foundation bolt
- Machine lamp
- Manual book

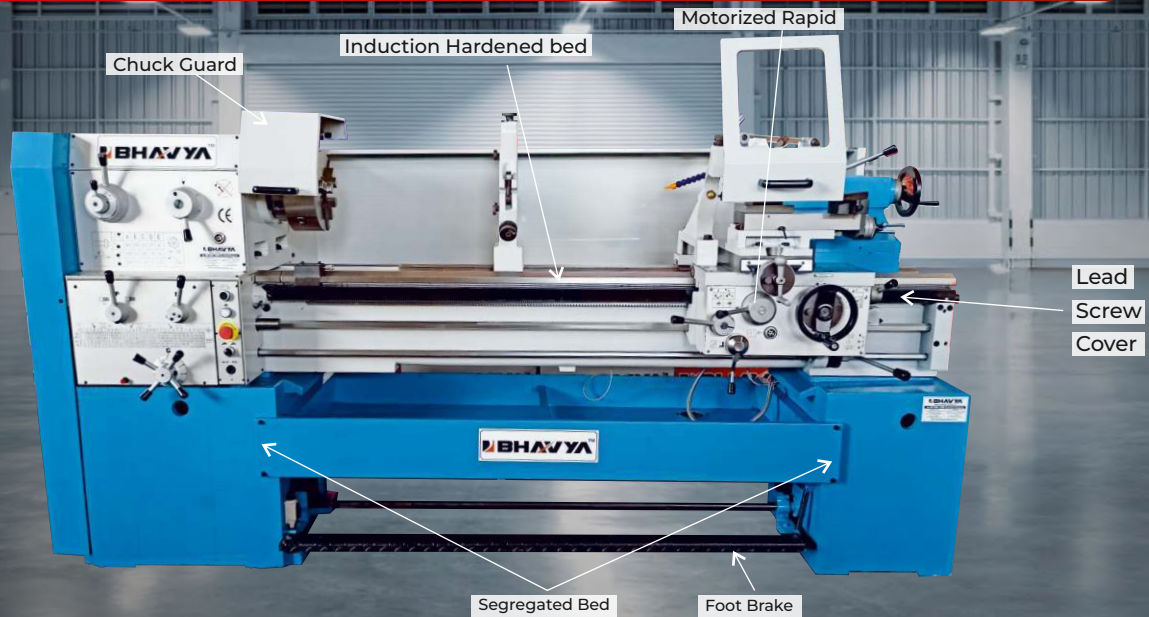
### OPTIONAL ACCESSORIES

- 3 Jaw Self-centering true chuck
- Quick change tool post
- Taper turning attachment
- 2 Axis DRO
- Key way milling attachment
- Revolving center - MT6

Specifications are subject to changed without prior notice.

# LATHE

## HIGH SPEED ALL GEARED LATHE MACHINE



PARTICULARS/MODEL	HSTY50B	HSTY50C	HSTY60B	HSTY60C
Center Height	250mm	250mm	300mm	300mm
Swing Over Bed	500mm	500mm	600mm	600mm
Swing Over Cross Slide	310mm	325mm	360mm	360mm
Swing in Gap	610mm	630mm	730mm	730mm
Length of Gap	260mm	260mm	260mm	260mm
Width of Bed	330mm	330mm	330mm	330mm
Admit Between Center	1000/1500/2000mm	1000/1500/2000mm	1000/1500/2000mm	1000/1500/2000mm
Spindle Nose	D1-B	D1-8	D1-8	D1-8
Spindle Bore	65mm	80mm	60mm	80mm
Spindle Speed	15/22-1800rpm	15/24-1600rpm	15/22-1800rpm	15/24-1600rpm
Compound Rest Travel	130mm	130mm	130mm	130mm
Cross Slide Travel	255mm	305mm	305mm	305mm
Lead Screw Thread	4TPI	4TPI	4TPI	4TPI
Tool Shank Size	25x25mm	25x25mm	25x25mm	25x25mm
Range of Longitudinal Feeds	66	66	66	66
Longitudinal Feeds	0.072-4.038mm/rev	0.072-4.038mm/rev.	0.072-4.038mm/rev.	0.072-4.038mm/rev.
Range of Cross Feeds	33	33	33	33
Cross Feeds	0.036-2.019mm/rev	0.036-2.019mm/rev	0.036-2.019mm/rev	0.036-2.019mm/rev
Rapid Speed of Carriage	5000mm/min	5000mm/min	5000mm/min	5000mm/min
Metric Thread	66/0.5-28min	66/0.5-28min	66/0.5-28min	66/0.5-28min
Imperial Thread	66/1-56TPI	66/1-56TPI	66/1-56TPI	66/1-56TPI
Diametrical Thread	33/8-56DP	33/8-56DP	33/8-56DP	33/8-56DP
Module Thread	33/0.5-3.5MP	33/0.5-3.5MP	33/0.5-3.5MP	33/0.5-3.5MP
Tail Stock Quill Diameter	65mm	65mm	65mm	65mm
Tail Stock Quill Travel	120mm	120mm	120mm	120mm
Tail Stock Quill Taper	MT-5	MT-5	MT-5	MT-5
Main Motor Power	5.5KW	5.5KW	5.5KW	5.5KW
Coolant Pump Power	0.1KW	0.125KW	0.1KW	0.125KW
Rapid Speed Motor Power	0.12KW	0.12KW	0.12KW	0.12KW
Overall Dimensions (LxWxH)	2450x1150x1800mm	2450x1150x1800mm	2450x1150x1800mm	2450x1150x1800mm
	2950x1150x1800mm	2950x1150x1800mm	2950x1150x1800mm	2950x1150x1800mm
	3450x1150x1800mm	3450x1150x1800mm	3450x1150x1800mm	3450x1150x1800mm
Net Weight (Approx)	1650kg	1700kg.	1750kg.	1800kg.
	1850kg.	1900kg.	1950kg.	2000kg.
	2100kg	2150kg.	2200kg.	2250kg.

### STANDARD ACCESSORIES

- 3 Jaw Self-Centering Chuck
- 4- Jaw Independent Chuck
- Steady Rest
- Follow Rest
- Toolbox
- Foot Stand
- Foot Brake
- Coolant System
- Machine Lamp
- Centre
- Centre Sleeve
- Oil Gun
- Rear Splash Guard

### OPTIONAL ACCESSORIES

- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key Way milling Attachment
- Drill Chuck With Arbour & Socket
- 2 Axis DRO
- Tool post grinder with electrical motor
- Revolving center

Specifications are subject to changed without prior notice.

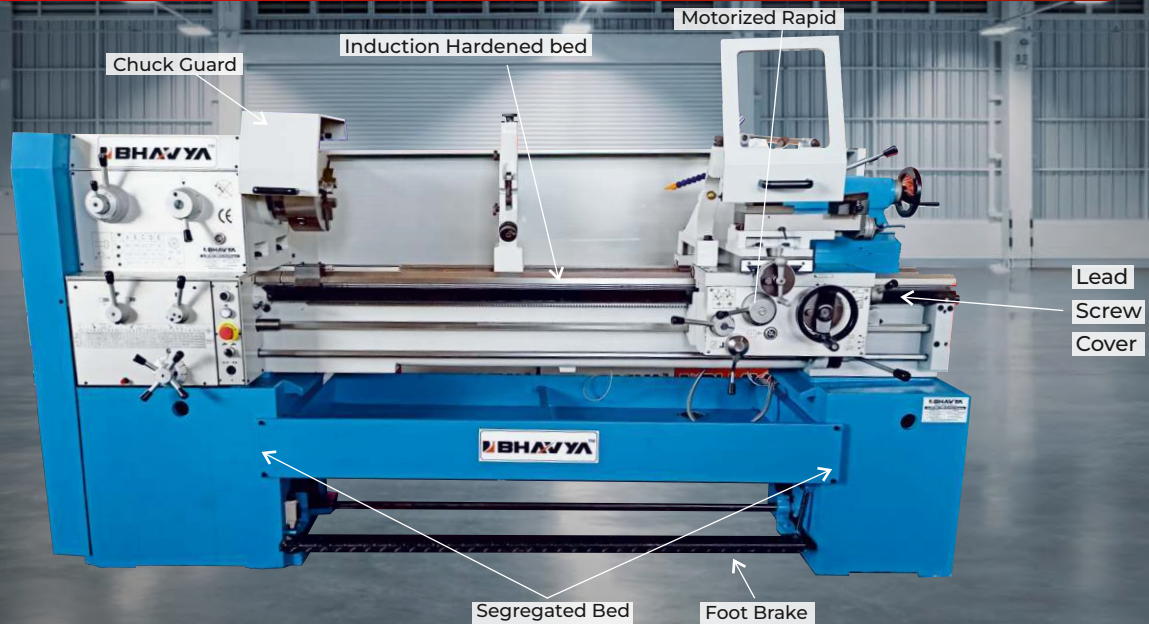


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# LATHE

## HIGH SPEED ALL GEARED LATHE MACHINE



PARTICULARS/MODEL	HSTY66B	HSTY66C	HSTY80B	HSTY80C
Center Height	330mm	330mm	400mm	400mm
Swing Over Bed	660mm	660mm	800mm	800mm
Swing Over Cross Slide	420mm	420mm	560mm	560mm
Swing in Gap	870mm	870mm	1010mm	1010mm
Length of Gap	230mm	205mm	230mm	230mm
Width of Bed	405mm	405mm	405mm	405mm
Admit Between Center	1500/2000/3000mm	1500/2000/3000mm	1500/2000/3000mm	1500/2000/3000mm
Spindle Nose	D1-8	D1-8	D1-8	D1-8
Spindle Bore	82mm	105mm	82mm	105mm
Spindle Speed	24/9-1600rpm	12/36-1600rpm	24/9-1600rpm	12/36-1600rpm
Compound Rest Travel	145mm	145mm	145mm	145mm
Cross Slide Travel	360mm	360mm	360mm	360mm
Lead Screw Thread				
Tool Shank Size	25x25mm	25x25mm	25x25mm	25x25mm
Range of Longitudinal Feeds				
Longitudinal Feeds	0.028-6.42mm/rev.	0.063-2.52mm/rev.	0.028-6.42mm/rev.	0.63-2.52mm/rev
Range of Cross Feeds				
Cross Feeds	0.012-2.73mm/rev	0.027-1.07mm/rev	0.012-2.73mm/rev	0.027-1.07mm/rev
Rapid Speed of Carriage	5000mm/min	5000mm/min	5000mm/min	5000mm/min
Metric Thread	0.5-225mm (48)	1-14mm (22)	0.5-225mm (48)	1-14mm (22)
Imperial Thread	1/8-72TPI (46)	2-28TPI (24)	1/8-72TPI (46)	2-28TPI (26)
Diametrical Thread	1/4-56DP (45)	4-56DP (24)	1/4-56DP (45)	4-50 DP (24)
Module Thread	0.5-112MP (42)	0.5-7MP (18)	0.5-112MP (42)	0.5/7 MP (18)
Tail Stock Quill Diameter	75mm	75mm	75mm	75mm
Tail Stock Quill Travel	150mm	150mm	150mm	150mm
Tail Stock Quill Taper	MT-5	MT-5	MT-5	MT-5
Main Motor Power	7.5KW	7.5KW	7.5KW	7.5KW
Coolant Pump Power	0.1KW	0.1KW	0.1KW	0.1KW
Rapid Speed Motor Power	0.12KW	0.37KW	0.12KW	0.12KW
Overall Dimensions (LxWxH)	3200x1150x1800mm	3200x1150x1800mm	3200x1150x1800mm	3200x1150x1800mm
	3700x1150x1800mm	3700x1150x1800mm	3700x1150x1800mm	3700x1150x1800mm
	4700x1150x1800mm	4700x1150x1800mm	4700x1150x1800mm	4700x1150x1800mm
Net Weight (Approx)	3500kg.	3150kg.	3650kg.	3150kg.
	4000kg.	3400kg.	4200kg.	3400kg.
	4250kg.	3800kg.	4470kg.	3800kg.

### STANDARD ACCESSORIES

- 3 Jaw Self-Centering Chuck
- 4- Jaw Independent Chuck
- Steady Rest
- Follow Rest
- Toolbox
- Foot Stand
- Foot Brake
- Coolant System
- Machine Lamp
- Centre
- Centre Sleeve
- Oil Gun
- Rear Splash Guard

### OPTIONAL ACCESSORIES

- American Type Quick Change tool post with 3 tools holder
- Taper Turning Attachment
- Key Way milling Attachment
- Drill Chuck With Arbour & Socket
- 2 Axis DRO
- Tool post grinder with electrical motor
- Revolving center

Specifications are subject to changed without prior notice.

# LATHE

## ALL GEARED LATHE MACHINE



### Admit Between Centers (In mm)

BED LENGTH	BGH	BGH-1	BGH-2	BGH-3
7'	1000	1000	1000	700
9'	1600	1600	1600	1300
10'	1900	1900	1900	1600
12'	2500	2500	2500	2200
14'	3100	3100	3100	2800
16'	3700	3700	3700	3400
18'	4300	4300	4300	4000
20'	-	-	4900	4600
22'	-	-	5500	5200
24'	-	-	6100	5800

DESCRIPTION/MODEL	BGH	BGH-1	BGH-2	BGH-3
Height for Centers	267mm	305mm	305mm	400mm
Swing over Bed	525mm	600mm	600mm	770mm
Swing over Cross Slide	300mm	375mm	375mm	500mm
Swing in Gap	825mm	910mm	910mm	1170mm
Bed Width	325mm	325mm	375mm	457mm
<b>MAIN SPINDLE</b>				
Type Spindle Nose	Threaded/A2-6	Threaded/A2-6	Threaded/A2-6	Threaded/A2-8
Spindle Bore	52mm	52mm	80mm	100mm
No.of Speeds	12	12	12	9
Range RPM	30-1060rpm	30-1060rpm	30-1060rpm	18-310rpm
<b>FEEDS/THREADS</b>				
No. of feed	40	40	40	40
Longitudinal Feeds	0.066-2.0mm/rev.	0.066-2.0mm/rev.	0.066-2.0mm/rev.	0.066-2.0mm/rev.
Transverse Feeds	0.165-0.5mm/rev.	0.165-0.5mm/rev.	0.165-0.5mm/rev.	0.165-0.5mm/rev.
Inch	40/2-60TPI	40/2-60TPI	40/2-60TPI	44/2-60TPI
Metric	17/0.5-15mm	17/0.5-15mm	17/0.5-15mm	24/0.5-15mm
Lead Screw Diameter	38mm x 4TPI	38mm x 4TPI	38mm x 4TPI	45mm x 4TPI
<b>TAIL STOCK</b>				
Spindle Diameter	60.3mm	60.3mm	60.3mm	75mm
Taper in Spindle sleeve	MT-4	MT-4	MT-4	MT-5
Tail Stock Spindle Travel	180mm	180mm	180mm	250mm
<b>ELECTRICALS</b>				
Main	3HP	3HP	3HP	5HP

### STANDARD ACCESSORIES :

- Induction Hardened Bed
- Norton Gear Box With Lead Screw & Feed Shaft
- Electric Motor
- Electric Control Panel
- Motor Pulley
- Chuck Plate
- Centre Adaptor
- Dead Centre 2 Nos
- Tool Post Spanner

### OPTIONAL ACCESSORIES :

- True Chuck
- Dog Chuck
- Steady Rest
- Follow Rest
- Face Plate
- Carrier Plate
- Extra Chuck Plate
- Tapper Turning Attachment
- Coolant Pump With Tank & Fittings
- Key Way Cutting Attachment
- 2-Axis DRO (Digital Read Out)
- Rear Splash Guard
- Machine Lamp
- Tool Post Grinder
- Revolving Centre
- Drill Chuck
- Pipe Center

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 72**

Specifications are subject to changed without prior notice.

# LATHE

## ALL GEARED LATHE MACHINE



DESCRIPTION/MODEL	BGM-1	BGM-1H	BGM-2	BGM-2H	BGM-3	BGM-3H
Height for Centers	215mm	250mm	215mm	250mm	215mm	250mm
Swing over Bed	425mm	490mm	425mm	490mm	425mm	490mm
Swing over Cross Slide	250mm	320mm	250mm	320mm	250mm	320mm
Swing in Gap	600mm	660mm	600mm	660mm	600mm	660mm
Admit Between Centre	550mm	550mm	750mm	750mm	1000mm	1000mm
Bed Width	280mm	280mm	280mm	280mm	280mm	280mm
<b>MAIN SPINDLE</b>						
Type Spindle Nose	Threaded/A2-4	Threaded/A2-4	Threaded/A2-4	Threaded/A2-4	Threaded/A2-4	Threaded/A2-4
Spindle Bore	50mm	50mm	50mm	50mm	50mm	50mm
No.of Speeds	8	8	8	8	8	8
Range RPM	54-1200rpm	54-1200rpm	54-1200rpm	54-1200rpm	54-1200rpm	54-1200rpm
<b>FEEDS/THREADS</b>						
No. of feed	32	32	32	32	32	32
Longitudinal Feeds	0.4-1.0mm/rev	0.4-1.0mm/rev	0.4-1.0mm/rev	0.4-1.0mm/rev	0.4-1.0mm/rev	0.4-1.0mm/rev
Transverse Feeds	0.01-0.20mm/rev.	0.01-0.20mm/rev.	0.01-0.20mm/rev.	0.01-0.20mm/rev.	0.01-0.20mm/rev.	0.01-0.20mm/rev.
Inch	40/2-60TPI	40/2-60TPI	40/2-60TPI	40/2-60TPI	40/2-60TPI	40/2-60TPI
Metric	17/0.5-15mm	17/0.5-15mm	17/0.5-15mm	17/0.5-15mm	17/0.5-15mm	17/0.5-15mm
Lead Screw Diameter	31.75mm x 4TPI	31.75mm x 4TPI	31.75mm x 4TPI	31.75mm x 4TPI	31.75mm x 4TPI	31.75mm x 4TPI
<b>TAIL STOCK</b>						
Spindle Diameter	50.8mm	50.8mm	50.8mm	50.8mm	50.8mm	50.8mm
Taper in Spindle sleeve	MT-4	MT-4	MT-4	MT-4	MT-4	MT-4
Tail Stock Spindle Travel	145mm	145mm	145mm	145mm	145mm	145mm
<b>ELECTRICALS</b>						
Main	2HP	2HP	2HP	2HP	2HP	2HP
Machine Weight (Approx)	750kgs.	800kgs.	850kgs.	900kgs.	1000kgs.	1050kgs.

### STANDARD ACCESSORIES :

- Induction Hardened Bed
- Norton Gear Box With Lead Screw & Feed Shaft
- Electric Motor
- Electric Control Panel
- Motor Pulley
- Chuck Plate
- Centre Adaptor
- Dead Centre 2 Nos
- Tool Post Spanner

### OPTIONAL ACCESSORIES :

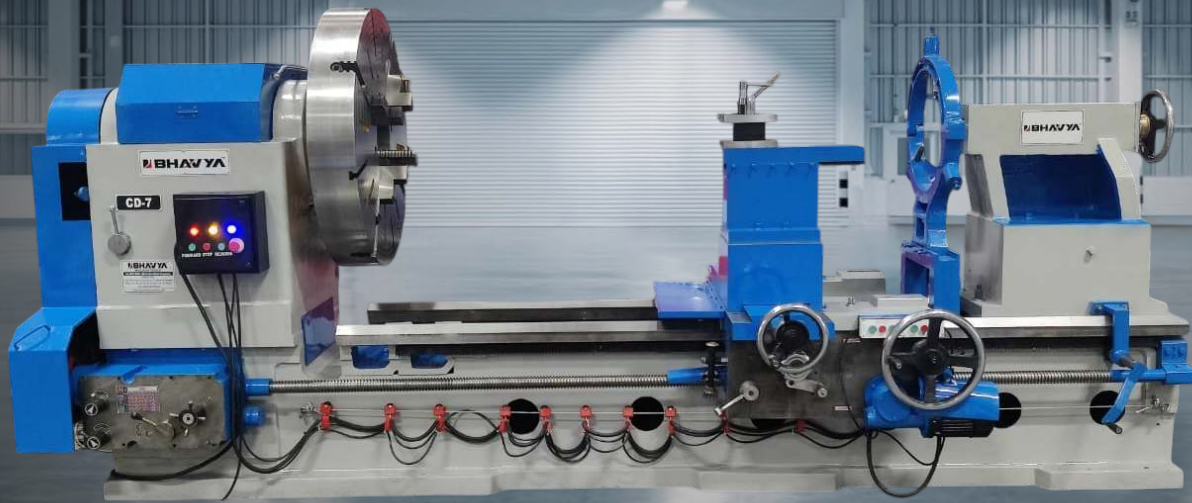
- True Chuck
- Dog Chuck
- Steady Rest
- Follow Rest
- Face Plate
- Carrier Plate
- Extra Chuck Plate
- Tapper Turning Attachment
- Coolant Pump With Tank & Fittings
- Key Way Cutting Attachment
- 2-Axis DRO (Digital Read Out)
- Rear Splash Guard
- Machine Lamp
- Tool Post Grinder
- Revolving Centre
- Drill Chuck
- Pipe Center

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 72**

Specifications are subject to changed without prior notice.

# LATHE

## EXTRA HEAVY DUTY LATHE (V-BELT DRIVE)



Bed & Spindle are **HARDENED & GROUND** Casting **HIGH TENSILE** **LATEST DESIGN** Head Stock

OPTIONAL



Knob Type Norton Gear Box

MODEL	CD-4	CD-5	CD-6	CD-7	CD-8	CD-10
Height Of Centre (mm)	500	500	600	750	800	900
Width Of Bed (mm)	500	550	600	750	800	900
<b>Max. Swing (mm)</b>						
Over Bed	1000	1100	1200	1500	1600	1800
Over Slide	700	800	900	1200	1300	1500
In Gap	1280	1360	1450	1750	1850	2050
<b>Spindle</b>						
Bore (mm)	100	100	125	150	150	150
Nose	6 TPI	6 TPI	6TPI	6TPI	6TPI	6TPI
Speed-8 (R.P.M)	30 to 250	30 to 250	30 to 250	10 to 150	10 to 150	10 to 150
<b>Travel (mm)</b>						
Cross Slide	500	500	500	500	500	500
Top Slide	250	250	250	250	250	250
<b>Other</b>						
Lead Screw TPI	2 TPI	2 TPI	2 TPI	2 TPI	2 TPI	2 TPI
Tail Stock Sleeve	MT-5	MT-5	MT-5	MT-5	MT-5	MT-5

### Admit Between Centers (In mm)

SIZE	CD-4	CD-5	CD-6	CD-7	CD-8	CD-10
9'	1400	1400	1350	-	-	-
10'	1700	1700	1650	1550	1550	1550
12'	2300	2300	2250	2250	2250	2250
14'	2900	2900	2850	2750	2750	2750
16'	3500	3500	3450	3350	3350	3350
18'	4100	4100	4050	3950	3950	3950
20'	4700	4700	4650	4550	4550	4550
22'	5300	5300	5250	5150	5150	5150
24'	5900	5900	5850	5750	5750	5750
30'	7600	7600	7550	7450	7450	7450

### STANDARD ACCESSORIES :

- Chuck Plate
- Square Tool Post
- Gear Set
- Tool Post Key
- Centre Adaptor
- Dead Centers
- Dial Indicator

### OPTIONAL ACCESSORIES :

- Steady Rest
- Follow Rest
- Face Plate
- Electrical Fittings
- True Chuck & Dog Chuck
- Rear Tool Post
- Tool Post Grinder
- Norton Gear Box
- Key way Milling Attachment
- Quick Change Tool Post
- Tapper Turning Attachment
- Coolant Pump with Tank Fittings
- Machine Lamp
- Big Spindle Bore (On Request)

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 72**

Specifications are subject to changed without prior notice.



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# LATHE

## HEAVY DUTY LATHE (V-BELT DRIVE)



Bed & Spindle are **HARDENED & GROUND** **HIGH TENSILE** **LATEST DESIGN**  
Casting Head Stock

OPTIONAL



Knob Type Norton Gear Box

MODEL	MAX	MAX-1	MAX-2	MAX-3	MAX-4
Height Of Centre (mm)	250	300	300	375	450
Width Of Bed (mm)	325	325	375	375	450
<b>Max. Swing (mm)</b>					
Over Bed	500	600	600	750	900
Over Slide	300	400	400	550	700
In Gap	775	900	900	1050	1200
<b>Spindle</b>					
Bore (mm)	52	80	80	80	100
Nose	6 TPI	6 TPI	6 TPI	6 TPI	6 TPI
Speed-8 (R.P.M.)	30 to 475	30 to 475	30 to 475	30 to 475	30 to 475
<b>Travel (mm)</b>					
Cross Slide	270	335	335	380	460
Top Slide	150	150	150	150	175
<b>Other</b>					
Lead Screw TPI	4 TPI	2 TPI	2 TPI	2 TPI	2 TPI
Tail Stock Sleeve	MT-4	MT-4	MT-4	MT-4	MT-5
Power Required (H.P.)	3	3	3	3	5

### Admit Between Centers (In mm)

SIZE	MAX	MAX-1	MAX-2	MAX-3	MAX-4
5.5'	560	560	560	560	-
7'	1000	1000	1000	1000	800
9'	1600	1600	1600	1600	1400
10'	1900	1900	1900	1900	1700
12'	2500	2500	2500	2500	2300
14'	3100	3100	3100	3100	2900
16'	3700	3700	3700	3700	3500
18'	4300	4300	4300	4300	4100
20'	-	-	4900	4900	4700
22'	-	-	5500	5500	5300
24'	-	-	6100	6100	5900

### STANDARD ACCESSORIES :

- Chuck Plate
- Gear Set
- Centre Adaptor
- Dead Centers
- Dial Indicator
- Square Tool Post
- Tool Post Key

### OPTIONAL ACCESSORIES :

- Steady Rest
- Follow Rest
- Face Plate
- Electrical Fittings
- True Chuck & Dog Chuck
- Rear Tool Post
- Tool Post Grinder
- Norton Gear Box
- Key way Milling Attachment
- Quick Change Tool Post Tapper Turning Attachment
- Coolant Pump with Tank Fittings
- Machine Lamp
- Big Spindle Bore (On Request)

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 72**

Specifications are subject to changed without prior notice.

# LATHE

## LIGHT DUTY LATHE (V-BELT DRIVE)

## MEDIUM DUTY LATHE (V-BELT DRIVE)

### STANDARD MODEL

### STANDARD MODEL



Bed & Spindle are **HARDENED & GROUND** HIGH TENSILE LATEST DESIGN  
Casting Head Stock

## LIGHT DUTY LATHE

MODEL	LD 175
Height Of Center (mm)	175
Width Of bed (mm)	238
Max. Swing over bed (mm)	350
Max. Swing over Slide (mm)	200
Spindle Bore (mm)	40
Spindle Nose	8 TPI
Spindle Speed 8 (R.P.M)	30-825
Cross Slide Travel (mm)	225
Lead screw TPI	4 TPI
Tail Stock Sleeve	MT-3
Power Required (H.P)	1

LIGHT DUTY	
Admit Between Centers	
LENGTH	A.B.C
4.6'	650 mm
6.0"	1050 mm

MEDIUM DUTY	
Admit Between Centers	
LENGTH	A.B.C
4.6'	500 mm
6.0"	950 mm

## MEDIUM DUTY LATHE

MODEL	MD 212	MD 212H
Height Of Center (mm)	212	250
Width Of bed (mm)	280	280
Max. Swing over bed (mm)	410	490
Max. Swing over Slide (mm)	240	320
Spindle Bore (mm)	52	80
Spindle Nose	6 TPI	6 TPI
Spindle Speed 6 (R.P.M)	40-550	40-550
Cross Slide Travel (mm)	240	240
Lead screw TPI	4 TPI	4 TPI
Tail Stock Sleeve	MT-4	MT-4
Power Required (H.P)	2	2

### STANDARD ACCESSORIES

- Chuck Plate
- Gear Set
- Centre Adaptor
- Dead Centers
- Dial Indicator
- Square Tool Post
- Tool Post Key

### OPTIONAL ACCESSORIES

- Steady Rest
- Follow Rest
- Norton Gear Box
- Machine Lamp
- True Chuck & Dog Chuck
- Quick Change Tool Post
- Tapper Turning Attachment
- Rear Tool Post
- Face Plate
- Electrical Fittings
- Tool Post Grinder
- Key way Milling Attachment
- Coolant Pump with Tank & Fittings

**Note : Super Model (for Both Machines) = It is available in Norton Gear Box with Lead Screw & Feed Shaft separated**

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 72**

Specifications are subject to changed without prior notice.



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# DRILL

## ALL GEARED EXTRA HEAVY DUTY RADIAL DRILLING MACHINE (HYDRAULIC CLAMPING)



HRD63x16

HRD80x25

PARTICULARS/MODEL	HRD63x16	HRD63x20	HRD80x25
<b>CAPACITY</b>			
Drilling Capacity	63mm	63mm	80mm
Tapping Capacity	M42	M42	M48
Boring Capacity	150mm	150mm	180mm
<b>DRILL HEAD</b>			
Taper in Spindle	MT-5	MT-5	MT-6
Spindle Travel	400mm	400mm	450mm
Number of Spindle Speeds	16	16	16
Range of Spindle Speeds	20-1600 rpm	20-1600rpm	16-1250rpm
Number of Spindle Auto Feeds	16	16	16
Range of Spindle Auto Feeds	0.04-3.2 mm/r	0.04-3.20mm/rev.	0.04-3.20mm/rev.
Drill Head & Column Locking	Hydraulic	Hydraulic	Hydraulic
<b>WORKING RANGE</b>			
Arm Length	1750mm	2000mm	2500mm
Travel of Drill Head	1200mm	1550mm	2000mm
Drilling Radius Min./Max.	500/1750mm	675/2275mm	775/2775mm
Dist. Spindle Axis and Column.	450/1600mm	450/2000mm	530/2530mm
Dist. Spindle Nose to Base Plate	400/1600mm	450/1650mm	600/2050mm
Diameter Of Column	350mm	450mm	550mm
<b>BOX TABLE</b>			
Box Table-Size	630x500x500mm	950x630x500mm	1000x800x560mm
Number Of T Slots in Box Table	5	7	7
Size in T Slots in Box Table	22mm	22mm	22mm
<b>ELECTRICAL</b>			
Power Supply of Main Motor	5.5kW	5.5kW	7.5kW
Power Supply of Elevating Motor	1.5kW	1.5kW	3kW
<b>DIMENSION &amp; WEIGHT</b>			
Length x Width x Height	2540x1070x2960mm	3080x1250x3245mm	3730x1400x3835mm
Approx Weight	3700Kgs.	7300Kgs.	10500Kgs.

### STANDARD ACCESSORIES

- Box Table
- Coolant System
- Machine Lamp
- Drill Chuck with arbor
- Reduction Sleeve
- Wedge
- Tool Box
- Instruction Manual
- Foundation Bolt



Hydraulic Arm & Head Locking



Quill Feed Handle



Fine Feed Quill Hand Wheel



Speed & Feed Dial



Auto Lubrication

Specifications are subject to changed without prior notice.

# DRILL

## ALL GEARED EXTRA HEAVY DUTY RADIAL DRILLING MACHINE (HYDRAULIC & MECHANICAL CLAMPING)



PARTICULARS/MODEL	ERD50x16B	HRD50x16	HRD50x20
<b>CAPACITY</b>			
Drilling Capacity	50mm	50mm	50mm
Tapping Capacity	M25	M36	M36
Boring Capacity	100mm	120mm	120mm
<b>DRILL HEAD</b>			
Taper in Spindle	MT-5	MT-5	MT-5
Spindle Travel	315mm	315mm	315mm
Number of Spindle Speeds	12	16	16
Range of Spindle Speeds	34-1280rpm	25-2000 pm	25-2000pm
Number of Spindle Auto Feeds	12	16	16
Range of Spindle Auto Feeds	0.1-0.56mm/rev.	0.04-3.20mm/rev	0.04-3,20mm/rev.
Drill Head & Column Locking	Mechanical	Hydraulic	Hydraulic
<b>WORKING RANGE</b>			
Arm Length	1600mm	1770mm	2000mm
Travel of Drill Head	1250mm	1250mm	1550mm
Drilling Radius Min./Max.	525/1775mm	525/1775mm	675/2275mm
Dist. Spindle Axis and Column.	360-1600mm	350/1600mm	350/2000mm
Dist. Spindle and Base Plate	300-1050mm	320/1220mm	320/1220mm
Diameter Of Column	280mm	350mm	350mm
<b>BOX TABLE</b>			
Box Table-Size	600x500x310mm	630x500x500 mm.	630x500x500mm
Number Of T Slots in Box Table	3	5	5
Size in T Slots in Box Table	16mm	22mm	22mm
<b>ELECTRICAL</b>			
Power Supply of Main Motor	4 KW	4 KW	4 KW
Power Supply of Elevating Motor	1.5Kw	1.5 KW	1.1 KW
<b>DIMENSION &amp; WEIGHT</b>			
Length x Width x Height	2270x950x2450mm	2500x1070x2550mm	2900x1010x2650mm
Approx Weight	2450Kgs.	3500Kgs.	3650Kgs.

### STANDARD ACCESSORIES

- All Electrical Motors
- Box Table
- Machine Lamp
- Taper Sleeve Set (MT5-4, MT5-3 MT5-2)
- Coolant pump with Fitting
- Foundation Bolts
- Drill Chuck With Shank



Hydraulic Arm & Head Locking



Quill Feed Handle



Fine Feed Quill Hand Wheel



Speed & Feed Dial



Auto Lubrication

Specifications are subject to changed without prior notice.

# DRILL

## ALL GEARED EXTRA HEAVY DUTY RADIAL DRILLING MACHINE (MECHANICAL CLAMPING)



MODEL/NO	ERD40X13E	ERD40x13HE	ERD40x13HE/2	ERD40x11
Max. drilling dia (MM)	40	40	40	40
Spindle center to column generating distance	315-1195mm	315-1195mm	300-1165mm	350-1030mm
Distance headstock horizontal movement	880mm	880mm	865mm	670mm
Distance from spindle nose to Base surface (MM)	300-1100	300-1110	280-1130	170-1100
Rocker rotary angle	± 180°	± 180°	± 180°	± 90°
Spindle taper	MT-4	MT-4	MT-4	MT-4
Spindle column diameter (MM)	230	230	230	230
Range of spindle speeds (R.P.M)	34-1220	34-1220	22-1400	40-1896
Spindle speed series	12steps	12steps	12steps	12steps
Spindle feeding range (R.P.M)	0.10-0.25	0.10-0.25	0.10-0.25	0.13-0.54
Spindle feeding step	3	3	3	4
Spindle travel (MM)	195	195	280	260
Main motor power (KW)	1.5/2.2	1.5/2.2	3	3
Lifting Motor Power (KW)	1.1	1.1	1.1	1.1
Box Table Size	530x420x335	530x420x330	530x420x335	560x380x300
Machine Approx Weight (kgs)	1200	1400	1500	1600
Overall dimentions (MM)	1750x770x2250	1850x800x2350	1880x820x2350	1800x820x2000

### STANDARD ACCESSORIES

- All Electrical Motors
- Box Table
- Tool Box
- Machine Lamp
- Taper Sleeve Set (MT4-3, MT4-2)
- Coolant pump with Fitting
- Foundation Bolts
- Drill Chuck With Shank



Auto Feed Function



Spindle Speed



Operation Console



Coolant System



Box Table



Power Console



Machine Lamp

Specifications are subject to changed without prior notice.

# DRILL

## RADIAL DRILL MACHINES (AUTO FEED)



BR-40BA



BR-40AA

### ALL GEARED - AUTO FEED

MODEL	BR40AA		
Drilling in M.S.	40	Max/Min. Dist. Spindle nose to base	950/250
Drilling in C.I.	45	Max. Drilling Radius	1020
Tapping in M.S.	25	Machine Measu. (LXBXH)	1200x780x2100
Boring in M.S.	75	Diameter of Column	180
Spindle Hole Taper	MT-4	Work Table	300x300x385
Spindle Travel	250	Coolant Tank	640x290x130
Spindle Speeds (RPMx Steps)	9-70-1225	Drill-head Motor	1.5HP/960RPM
Diameter of RAM	78	Elevating Motor	1 HP/1440RPM
Spindle Auto feed Ranges	0.05 & 0.09	Lifting Motor V-belt	B-25/B-26
Approx. Weight kg.	1000		

#### FEATURES :

- Column, Arm, Work Head & Gears are made out of Closed Grain.
- Parts Properly Balanced
- Prior Assembling of Main Gear & Pulley
- Parts Finished on imported Grinding Machine
- All moving parts Finished to close Tolerance
- Spindle Ram is made out of Alloy Steel.
- Main Spindle & Pinon are Made out of EN Forged Steel.

### BELT DRIVEN - AUTO FEED

MODEL	BR40BA		
Drilling in M.S.	40	Max/Min. Dist. Spindle	
Drilling in C.I.	45	Center to column	920/385
Tapping in M.S.	20	Max. Drilling Radius	990
Boring in M.S.	75	Machine Measu. (LXBXH)	1350x850x1825
Spindle Hole Taper	MT-4	Diameter of Column	170
Spindle Travel	250	Work Table	300x300x385
Spindle Speeds (RPMx Steps)	88-2600x8	Drill-head Motor	1.5HP/1440RPM
Diameter of RAM	78	Elevating Motor	1 HP/1440RPM
Spindle Auto feed Ranges	0.05 & 0.09	Head Motor V-belt	B-47
Max/Min. Dist Spindle nose to base	850/250	Lifting Motor V-belt	B-25/B-26
Approx. Weight kg.	950		

#### FEATURES :

- Column, Arm, Work Head & Gears are made out of Closed Grain.
- Parts Properly Balanced
- Prior Assembling of Main Gear & Pulley
- Parts Finished on imported Grinding Machine
- All moving parts Finished to close Tolerance
- Spindle Ram is made out of Alloy Steel.
- Main Spindle & Pinon are Made out of EN Forged Steel.

#### STANDARD ACCESSORIES

- All Electrical Motors
- Drill Chuck
- Sleeve
- Box Table
- Arbour
- Drill Vice

Specifications are subject to changed without prior notice.

# DRILL

## BELT DRIVEN RADIAL DRILL

Fine Feed Model



BR-38

Fine Feed Model



BR-25

### BELT DRIVEN RADIAL DRILL

MODEL	BR-38		
<b>CAPACITY</b>		Dist. From Spindle to base	950/240
Drilling Capacity	38mm	Dist. From Coloumm to Spindle	740/360
Column Diameter	170mm	<b>ELECTRICALS</b>	
Spindle Nose	MT-4	Drilling Head Motor (1440RPM)	1.5
Spindle Travel	250mm	Lifting of arm Motor (1440 RPM)	0.5 H.P
No. Of Spindle Speed	8	V-BELT Section	B-47 & B-24
Spindle Speed (RPM)	100-2125	<b>OTHERS</b>	
Diameter of Ram	78mm	Machine Measurement	1240x750x2000
<b>WORKING RANGE</b>		Size of box TABLE	375x290x290
Max. Drilling Radius	830	Approx Weight Kg.	800

#### FEATURES :

- Column, Arm, Work Head & Gears are made out of Closed Grain.
- Parts Properly Balanced
- Prior Assembling of Main Gear & Pully
- Parts Finished on imported Grinding Machine
- All moving parts Finished to close Tolerance
- Spindle Ram is made out of Alloy Steel.
- Main Spindle & Pinon are Made out of EN Forged Steel.

### BELT DRIVEN RADIAL DRILL

MODEL	BR-25		
<b>CAPACITY</b>		Dist. From Spindle to base	810/130 (Max/Min)
Drilling Capacity	25mm	Dist. From Coloumm to Spindle	620/350
Column Diameter	127mm	<b>ELECTRICALS</b>	
Spindle Nose	MT-3	Drilling Head Motor (1440RPM)	1
Spindle Travel	200mm	Lifting of arm Motor (1440 RPM)	0.5 H.P
No. Of Spindle Speed	8	V-BELT Section	B-40 & B-23
Spindle Speed (RPM)	110-2880	<b>OTHERS</b>	
Diameter of Ram	72mm	Machine Measurement	1020x810x1830
<b>WORKING RANGE</b>		Size of box TABLE	275x200x200
Max. Drilling Radius	660	Approx Weight Kg.	425

#### FEATURES :

- Column, Arm, Work Head & Gears are made out of Closed Grain.
- Parts Properly Balanced
- Prior Assembling of Main Gear & Pully
- Parts Finished on imported Grinding Machine
- All moving parts Finished to close Tolerance
- Spindle Ram is made out of Alloy Steel.
- Main Spindle & Pinon are Made out of EN Forged Steel.

#### STANDARD ACCESSORIES

- All Electrical Motors
- Drill Chuck
- Sleeve
- Box Table
- Arbour
- Drill Vice

Specifications are subject to changed without prior notice.

# DRILL

## PILLAR DRILL MACHINE

Belt Driven



BD-25A

All Geared



ED-35

## ALL GEARED PILLAR DRILL MACHINE

MODEL	ED-30	ED-35	ED-40	ED-50
Max. Drilling Capacity	30mm	35mm	40mm	50mm
Max. Tapping Capacity	M20	M24	M27	M30
Diameter Of Column	120mm	140mm	160mm	180mm
Spindle Travel	135mm	160mm	180mm	240mm
Distance Spindle To Column	320mm	330mm	360mm	360mm
Spindle Nose To Table	550mm	590mm	590mm	570mm
Spindle Nose To Base	1100mm	1180mm	1180mm	1160mm
Spindle Taper	MT-3	MT-4	MT-4	MT-4/MT-5
Number Spindle Speeds	12	12	12	12
Range Of Spindle Speeds	65 4 2600rpm	75 4 2500rpm	42 4 2050rpm	42 4 2050rpm
Spindle Feeds	0.1-0.2-0.3	0.1-0.2-0.3	0.7-0.15-0.26-0.40	0.7-0.15-0.26-0.40
Worktable Size	500 x 440mm	500 x 440mm	550 x 470mm	550 x 470mm
Table Travel	490mm	550mm	550mm	550mm
Base Size	400 x 390mm	400 x 390mm	450 x 440mm	450 x 440mm
Overall Height	2050mm	2300mm	2330mm	2380mm
Main Motor	0.85/1.1kw	1.5/2.2kw	2.2/2.8kw	2.2/2.8kw
Coolant Motor	40w	40w	40w	40w
G.W/N.W	495/450kg.	595/545kg.	815/755kg.	1045/985kg.
Packing Dimension	1080 x 620 x 2150mm	1080 x 620 x 2200mm	1080 x 620 x 2450mm	1080 x 620 x 2450mm

### STANDARD ACCESSORIES

- Auto Feed
- Drill Chuck
- Arbor
- Sleeve
- Safety Guard
- Machine Lamp
- Coolant System

### OPTIONAL ACCESSORIES

- Depth Controller
- DRO
- Spindle Slip Display



Drill Vice

## AUTO-FEED DRILLING & TAPPING MACHINE

MODEL		BD-25A	BD-40A
Max. Drilling Capacity	mm	Ø20	Ø31.15
Max. Tapping Capacity	mm	M16	M20
Spindle Travel	mm	135	150
Distance Spindle axis to column generating line	mm	240	265
Max. Distance spindle nose to Table	mm	366	820
Max. Distance spindle nose to Base	mm	678	1235
Diameter of Column	mm	85	100
No. of Spindle Speed		5	5
Spindle Speeds Range	r/min	320~1820	320~1820
Max. feed Rate	mm/min	90	
Spindle Taper	-	MT-2	MT-3
Dimension of Worktable Surface	mm	300x320	330x330
Dimension of Base Surface	mm	565x375	650x405
Motor	KW	1.1	1.5

### STANDARD ACCESSORIES

- Drill Vice
- LED lamp
- Drill Chuck
- Arbor
- Sleeve & Wedge



Drill Vice



Drill Arbour



Drill Sleeve



Drill Chuck



Reversible Tapping Attachment

Specifications are subject to changed without prior notice.

# DRILL & TAPPING

## DRILLING & TAPPING MACHINE



Manual Feed



Manual Feed



Pillar Drill (Light Duty)



Tapping Machine

MODEL		BD-25	BD-40
Max. Drilling capacity	mm	Ø20	Ø31.15
Max. Tapping Capacity	mm	M16	M20
Distance Spindle axis to column	mm	240	265
Spindle travel	mm	135	150
Max. Distance spindle nose to table	mm	365	820
Max. Distance spindle nose to base	mm	675	1235
Diameter of column	mm	85	100
No. of Spindle Speed		5	5
Spindle speeds range	r/mm	340~2180	320~1820
Spindle taper	-	MT-2	MT-3
Dimension of worktable surface	mm	300x320	380x400
Dimension of base surface	mm	305x355	310x380
Motor	KW	1.1	1.5 (6P)

MODEL		BDT-25
Max. Drilling capacity	mm	Ø25
Max. Tapping Capacity	mm	Steel - 20
		C.I.-24
Spindle travel	mm	125
T slot	mm	13
Distance Spindle axis to column generating line	mm	240
Max. Distance spindle nose to table	mm	299
Max. Distance spindle nose to base	mm	560
Spindle taper	-	MT-3
Spindle speeds range	r/mm	290~2150
Spindle speeds series	-	6
Dimension of worktable surface	mm	280x300

MODEL		BDE-16	BDE-25
Max. Drilling capacity	mm	16	25
Diameter of Column	mm	70	85
Spindle travel	mm	85	110
Distance Spindle axis to column generating line	mm	180	200
Max. Distance spindle nose to table	mm	410	390
Max. Distance spindle nose to base	mm	590	1140
Spindle taper		MT-2	MT-3
Spindle speeds range	r/mm	270~2880	200~2280
Spindle speeds series	-	12	9
Dimension of table surface	mm	300	280~280
Dimension of Base working surface	mm		300x300
Dimension of base	mm	445x270	566x356
Overall height	mm	960	1680
Power of motor	W	550	750
G.W/ N. W (Approx)	Kg	68/65	115/108
Packing dimension	cm	91x51.5x27	108x77x34

MODEL		SWJ-12G	SWJ-16G
Max. Drilling capacity		M2	M4
Max. Tapping Capacity	STEEL	mm M8	M12
	CASTIRON	M12	M16
Diameter of Column	mm	70	70
Spindle Travel	mm	50	50
Spindle Taper	-	B16	B18
No. of Spindle Speed		3	3
Spindle Speeds	RPM	260/440/750	260/380/570
Max. Distance Spindle nose to Table	mm	339	365
Max. Distance Spindle nose to Base	mm	543	543
Dimension of Worktable Surface	mm	260x 260	260x260
Power of motor	W	550/Single Phase	750

Specifications are subject to changed without prior notice.

# DRILL

## BELT DRIVEN PILLAR DRILL MACHINE



BMT-13

BMT-20

BMT-25

BMT-25H

BMT-38

BPSL-40

MODEL	BMT-13	BMT-20	BMT-20H
Drilling Capacity (mm)	13	20	20
Pillar Dia. (mm)	47	75	87
Spindle Nose	Solid	MT-2	MT-2
Spindle Travel (mm)	75	125	125
Spindle Center to Pillar Surface (mm)	175	215	381
Spindle Nose to Base (mm)	445	925	635
No. of Spindle Speed	4	8	8
Spindle Speed (RPM)	500-2800	87-3200	87-3200
Table Size (mm)	210x210	275x275	420x420
Base Size (mm)	225x345	320x460	630x370
Main Motor Power (HP)	0.5	1	1
Weight (Approx) (Kgs.)	60	120	150

### STANDARD ACCESSORIES

- Electrical Motors
- Taper Sleeve Set
- Drill Chuck With Shank

### FEATURES

- Parts Properly Balanced
- Prior Assembling of Main Gear & Pulley
- Parts finished on imported Grinding M/c.
- All Moving Parts Finished to Close Tolerance.
- Main Spindle & Pinion are Made out of EN Forged Steel.
- Spindle Ram is made out of Alloy Steel.

MODEL	BMT-25	BMT-25H	BMT-38	BPSL-40
Drilling Capacity (mm)	25	25	38	40
Pillar Dia. (mm)	90	90	100	120
Spindle Nose	MT-3	MT-3	MT-4	MT-4
Spindle Travel (mm)	155	160	225	250
Spindle Center to Pillar Surface (mm)	230	381	270	320
Spindle Nose to Base (mm)	1100	635	1050	1050
No. of Spindle Speed	8	8	8	8
Spindle Speed (RPM)	105-2650	96-2600	65-2100	80-3200
Table Size (mm)	330x330	420x420	385x385	455x455
Base Size (mm)	365x540	630x370	400x350	440x715
Main Motor Power (HP)	1	1/1.5	1.5	1.5
Weight (Approx) (Kgs.)	200	300	350	400



Drill Vice



Reversible Tapping Attachment



Drill Sleeve



Drill Arbour



Drill Chuck

Specifications are subject to changed without prior notice.

# DRILL & TAPPING

## DRILLING & TAPPING MACHINE



### PITCH CONTROLLED TAPPING MACHINE

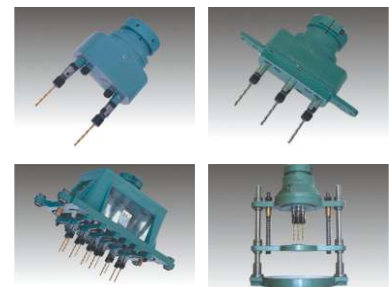
MODEL	JT-4508	JT-6516	JT 6532 VERTICAL
Tapping Capacity for Stainless Steel	M1-M8mm	M3-M16mm	M8 - M33mm
Spindle Taper	MT-2	MT-3	MT-3
Spindle Travel	60mm	60mm	65mm
Size of Worktable	235 x 230mm	340 x 360mm	420 x 375mm
Distance from Spindle to Table	470mm	470mm	450mm
Distance between Spindle to Column	185mm	185mm	185mm
Spindle Speed	1600,900,500rpm	590, 400, 260rpm	120, 220, 420rpm
Motor	1HP	2HP	3HP
Overall Size	600 x 300 x 930mm	555 x 400 x 700mm	103 x 70 x 137mm
Weight (Approx)	120kg	165kg	380 kg
Screw Pitch(mm)	1.25, 1.5, 1.75, 2.0 (Extra : 2.5, 3.0, 3.5, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19)		

### HYDRAULIC DRILLING MACHINE

MODEL	YDZ-20	YDZ-30
Drilling Capacity	Φ5 - 20 mm	Φ10 - Φ30 mm
Spindle Taper	MT-2	MT-3
Spindle Travel	135mm	140mm
Spindle Speed	500-1800rpm	400-1800rpm
No. of Speeds	4	4
Column Diameter	Φ102mm	Φ120mm
Table Size	390 x 430mm	370 x 430mm
Outer Diameter of Spindle	Φ65mm	Φ75mm
Max. Dist. Spindle to Table	220-670mm	0-630mm
Max. Dist. Spindle to Column	235mm	270mm
Motor	2HP	2HP
Standard working Pressure	20kgf / cm(2MPa)	20kgf/cm(2MPa)
Weight (Approx)	350kg	420kg

### MULTI-SPINDLES

MODEL	Chuck size	Max. Drilling Capacity	Min. Center Distance	Max. Center Distance	Number of Spindle
ST108	ER11	7mm	-	108	2
ST200	ER20	13mm	45	200	2
	ER25	16mm	45		
MU110	C5	5mm	13	Φ110	4
	ER11	7mm	18		6
MU140	C5	5mm	13	Φ140	4
	ER11	7mm	18		9
MU165	C5	5mm	13	Φ165	4
	C6	6mm	18		9
	ER8	5mm	13		8
	ER16	10mm	26		10
MU185	C5	5mm	13	Φ185	4
	C6	6mm	18		6
	C9	9mm	25		6
	ER8	5mm	13		8
	ER11	7mm	18		8
	ER16	10mm	26		10
	ER20	13mm	28		10
	Mu200	C5	5mm	Φ200	4
	C6	6mm	18		6
	C9	9mm	25		-
	ER8	5mm	13		8
	ER11	7mm	18		8
	ER16	10mm	26		10
	ER20	13mm	28		12



Specifications are subject to changed without prior notice.

# DRILL & MILLING

## DRILLING CUM MILLING MACHINE (BOX TYPE GEAR DRIVE AUTO FEED)



### OPTIONAL ACCESSORIES



2 Axis DRO

### PARTICULARS / MODEL

### ZX 7045B

Max. Drilling Capacity	φ40mm
Max. Boring diameter	70mm
Max. Face mill capacity	80mm
Max. End-mill Capacity	28mm
Max tapping	M12
Column dia	115mm
Spindle travel	110mm
Spindle taper	MT 4 & R8
Step of spindle speed	6
Range of spindle speed (50 Hz)	95-1600 RPM
swingle angle of headstock (horizontal/perpendicular)	±90°
Max distance from spindle nose to stand table	450mm
Min distance from spindle axis to column	260mm
Worktable dimensions	730x210mm
Table travel	450x170mm
Dimension of base	605x400mm
Motor power	1.5KW 1400 mm/min
Net weight (Approx)	350kg
Packing Dimension	1140x800x1040mm

### STANDARD ACCESSORIES

- Allen Wrench
- Wedge
- Tie rod
- Drill Chuck
- Milling cutter holder
- Milling cutter
- Working Lamp
- Coolant System
- Changing Sleeve
- Parallel Vice
- Chuck Guard



Drill Chuck With Arbor



Working Lamp



Parallel Vice



Coolant System



Milling Cutter



Drill Sleeve

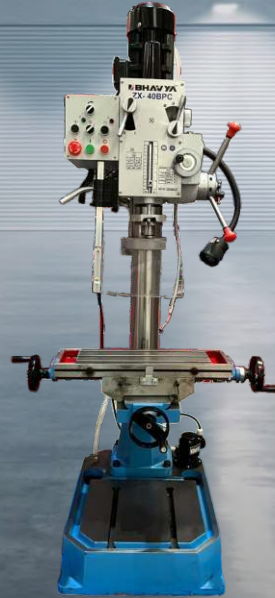


Tool Box

Specifications are subject to changed without prior notice.

# DRILL & MILLING

## DRILLING CUM MILLING MACHINE (PILLAR TYPE GEAR DRIVE AUTO FEED)



### OPTIONAL ACCESSORIES



2 Axis DRO

### PARTICULARS / MODEL

### ZX40 BPC

Max. Drilling Capacity	φ40mm
Spindle taper	MT 4 & R8
Spindle travel	110mm
Step of spindle speed	6
Range of spindle speed (50 HZ)	95-1600 RPM
Min.distance from spindle axis to column	261.5mm
Max. distance from spindle nose to worktable	745mm
Max. distance from spindle nose to stand table	1245mm
Swivel angle of headstock (horizontal/perpendicular)	±90°
Worktable size of availability	585x190mm
Table leaned	370x140x515mm
Size of stand worktable of availability	690x520mm
Motor power	1.5KW
Speed of motor	1400 RPM
Net weight (Approx)	390kg
Dimension	720x740x1910mm

### STANDARD ACCESSORIES

- Allen Wrench
- Wedge
- Tie rod
- Drill Chuck
- Milling cutter holder
- Milling cutter
- Working Lamp
- Coolant System
- Changing Sleeve
- Parallel Vice
- Chuck Guard



Drill Chuck With Arbor



Working Lamp



Parallel Vice



Coolant System



Milling Cutter



Drill Sleeve



Tool Box

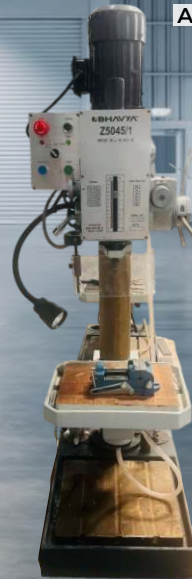
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# DRILL

## ALL GEARED PILLAR DRILL MACHINE



FINE FEED



AUTO FEED

### SPECIFICATION

	Z5045	Z5045-1
Max. Drilling Capacity	φ45mm	φ45mm
spindle taper	MT-4	MT-4
spindle travel	130mm	130mm
step of spindle speed	6	6
Range of spindle speed (50 Hz)	80-1250 RPM	80-1250 RPM
Min. distance from spindle axis to column	283mm	283mm
Max. distance from spindle nose to worktable	700mm	700mm
Max. distance from spindle nose to stand table	1125mm	1125mm
Max.travel of headstock	250mm	250mm
Swivel angle of headstock (horizontal/perpendicular)	360°/ ± 90°	360°/ ± 90°
Worktable size of availability	380 x 300mm	380 x 300mm
Swivel angle of table horizontally	360°	360°
Table leaned	+45°	±45°
Size of stand worktable of availability	417x416mm	417x416mm
Motor power	1.5KW	1.5KW
Speed of motor	1400 RPM	1400 RPM
Net weight (Approx)	430kg	430kg
Dimension	1850x750x1000mm	1850x750x1000mm

### STANDARD ACCESSORIES

- Allen Wrench
- Wedge
- Tie rod
- Drill Chuck
- Working Lamp
- Coolant System
- Changing Sleeve
- Parallel Vice
- Chuck Guard



Drill Chuck With Arbor



Working Lamp



Parallel Vice



Coolant System



Drill Sleeve



Tool Box

Specifications are subject to changed without prior notice.

# CNC LATHE & MILLING

## CNC LATHE



## CNC MILLING



MODEL	CNC360	XK7124/XK7124A
Maximum Swing Over Bed	Ø275mm	430mm (Optional : 530 mm)
Maximum Swing Over Solid	Ø200mm	280mm
Maximum Swing Over Slide	Ø120mm	400mm
Machining Length with Hydraulic Chuck	270mm	60-460mm
Spindle Taper Hole	Ø48mm	297mm
Spindle Type	A2-5	16x3x60 mm
Spindle Speed Range	1800rpm	800x240 mm
Spindle Shift Mode	Inverter	60 KG
Main Motor Power	4KW	1.5kw (Frequency Inverter)
Chuck type	Hydraulic Solid (Taiwan)	BT 30
Chuck Size	160mm	4000 R / Min.
Rapid Traverse Speed on X/Z Axis	8/10m/min	Manually / Pneumatically
Servo Motor Torque on X/Z Axis	4/6Nm	0.04mm
X/Z Axis Travel	280/390mm	0.02mm
Guide Way Type	L M Guide	0-2000 MM/Min.
Turret Type	4 Station Electric Tool Post	6 M /Min
Turning Tools / Boring Bar Size	20mm x 20mm x Ø20mm	1/1/1 KW
Tail Stock Type	Manual Tail Stock	0.001mm
Tail Stock Sleeve Diameter / Travel	Ø54/150mm	Ø60X175mm
Tail Stock Sleeve Taper	MT-4	3.5 KG
Weight (Approx)	1200 KG	900 KG
Dimension (LxWxH)	1560x1130x1550mm	1900x1620x2280mm

### STANDARD ACCESSORIES

- GSK/SIEMENS Controller System
- Manual Chuck
- Manual Tail Stock
- Auto lubricating System
- Working lamp
- Coolant System

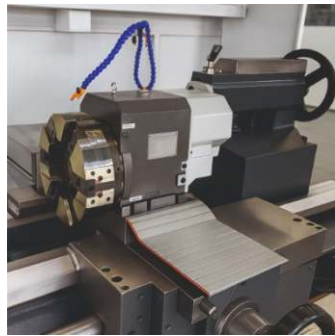
### OPTIONAL ACCESSORIES

- Hydraulic Chuck
- Hydraulic tail Stock
- Auto Lubrication System

Specifications are subject to changed without prior notice.

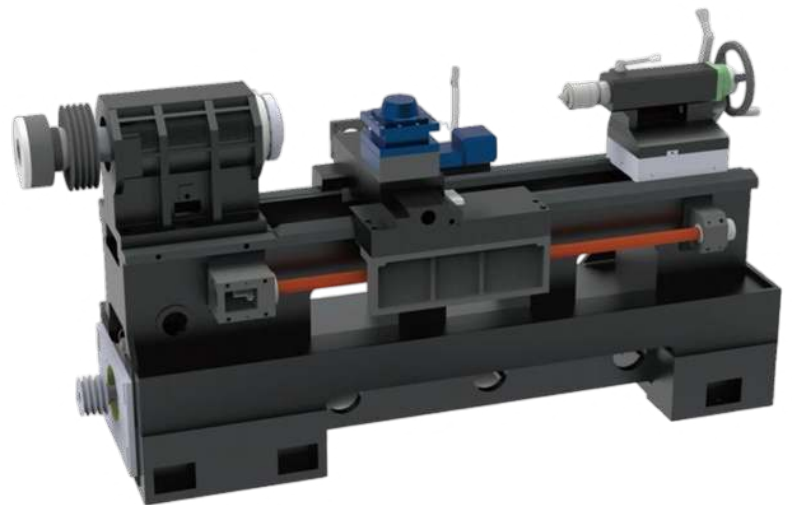
# CNC LATHE

## FLAT BED CNC LATHE MACHINE



### CNC LATHE CHARACTERISTICS

- Integrated casting machine bed
- High strength base strength and widened cross slide are suitable for strong turning
- 4 station electric turret
- Variable frequency stepless speed
- Manual chuck standard
- Hydraulic chuck optional



Specifications are subject to changed without prior notice.



for more information, scroll on

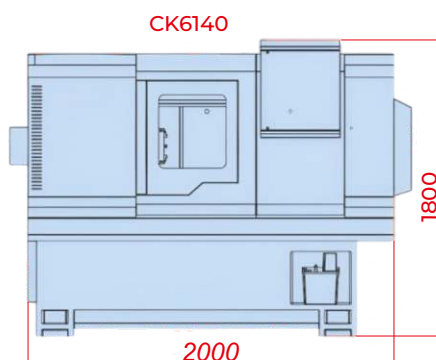
[www.bhavyamachinetools.com](http://www.bhavyamachinetools.com)

# CNC LATHE

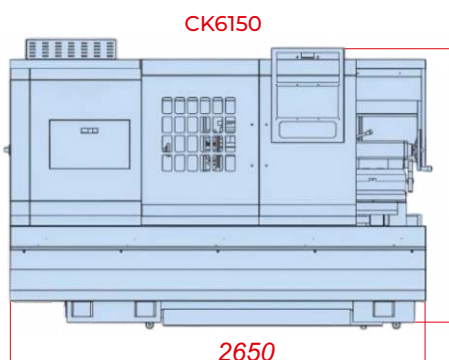
## FLAT BED CNC LATHE MACHINE

TECHNICAL PARAMETER	UNIT	CNC40	CNC50	CNC60
Max. swing dia. over bed	mm	400	500	600
Max. swing dia. over slide	mm	240	250	395
Maximum turning diameter (disc) center distance	mm	400	500	600
Maximum turning length.	mm	550/750	1000/1500/2000	1000/1500/2000
Spindle nose		420/620	850/1350/1850	850/1350/1850
Spindle bore	A2-6/A2-8	A2-8/A2-11	A2-8/A2-11	A2-8/A2-11
Spindle taper	φ/mm	48/82	82/130	82/130
Spindle speed	φ/mm	Collect/Metric 90	Metric 90/Metric 140	Metric 90/Metric 140
Spindle shift mode	r/min	150-2500/150-1800	150-1800/150-800	150-1800/150-800
Spindle motor power		Stepless speed	Stepless speed	Stepless speed
Chuck type	KW	5.5/7.5	7.5/11	7.5/11
Chuck size		Manual chuck	Manual chuck	Manual chuck
X/Z axis rapid traverse	mm	200/250	250/320/380	250/320/380
X/Z axis servo motor torque	m/min	6/8	6/8	6/8
X/Z axis travel	Nm	4/6	X:5/7.5 Z:7.5/10/15	X:5/7.5 Z:7.5/10/15
Guide way type	mm	X:280 Z:550/750	X:280 Z:1000/1500/2000	X:325 Z:1000/1500/2000
Tool quantity		box way	box way	box way
Tool shank size		4	4	4
Tail stock quill dia	mmxmm	20x20	25x25	25x25
Tail stock quill travel	φ/mm	60	75	75
Tail stock quill taper	mm	100	150	150
Total rated power		MT4#	MT5#	MT5#
Net weight (Approx)	KW	8/10	11/12/13	11/12/13
Machine dimension (LxWxH)	A	17/21	23/26/29	23/26/29
	Kg	1900/2200	2500/3000/3500	2800/3200/3600
	mm	2350x2200x1600x1800	2650/3250/3750x1700x1820	2650/3250/3750x1700x1820

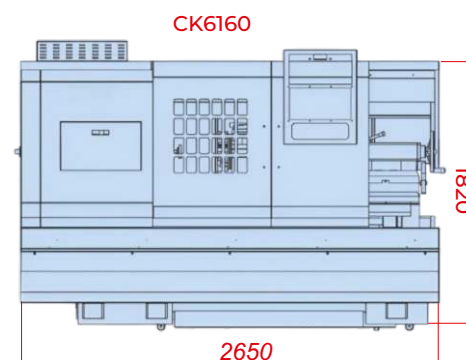
	CNC40		CNC50		CNC60	
Recomended processing D./L. (mm)	φ 210	420/620	φ 220	830/1350	φ 380	830/1350
Max. processing D. (mm)	φ 400	-	φ 500	-	φ 600	-
Max. bar D. through spindle (mm)	φ 38		φ 63		φ 63	



Area: 3.20m<sup>2</sup>



Area: 4.50m<sup>2</sup>



Area: 4.50m<sup>2</sup>

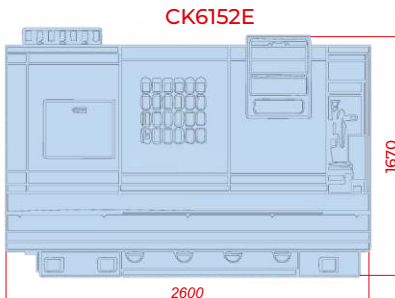
Specifications are subject to changed without prior notice.

# CNC LATHE

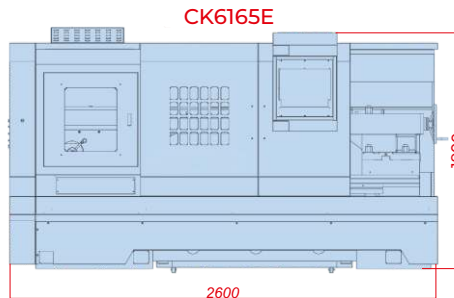
## FLAT BED CNC LATHE MACHINE

TECHNICAL PARAMETER	UNIT	CNC52E	CNC65E	CNC85E
Max. swing dia. over bed	mm	530	650	850
Max. swing dia. over slide	mm	280	375	500
Maximum turning diameter (disc)	mm	520	650	850
center distance	mm	1000/1500/2000/3000	1000/1500/2000/3000	1000/1500/2000/3000/4000
Maximum turning length.	mm	825/1325/1825/2825	900/1400/1900/2900	900/1400/1900/2900/3900
Spindle nose	GB59001	A2-8	C11	C11
Spindle bore	φ/mm	90	105	105
Spindle taper	r/min	Metric 100/1:20	Metric 120/1:20	Metric 120/1:20
Spindle speed		30-150,90-450,315-1600	10-85,40-350,100-850	10-85,40-350,100-850
Spindle shift mode	KW	3-step speed with manual gear shifting, stepless in step		
Spindle motor power		7.5	11	11
Chuck type	inch	Manual chuck	Manual chuck	Manual chuck
Chuck size	m/min	250	320	400
X/Z axis rapid traverse	m/min	6/8	4/5	4/5
X/Z axis servo motor torque	Nm	X:7.5 Z:10/15/22/22	X:10 Z:15/15/22/30	X:10 Z:15/15/22/30
X/Z axis travel	mm	X:300 Z:1000/1500/2000/3000	X:400 Z:1100/1600/2100/3100	X:450 Z:1100/1600/2100/3100/4100
Guide way type		box way	box way	box way
Tool quantity		4	4	4
Tool shank size	mmxmm	25x25	32x32	32x32
Tail stock quill dia	φ/mm	75	100	100
Tail stock quill travel	mm	150	250	250
Tail stock quill taper		MT5#	MT6#	MT6#
Tail rated power	KW	12/12/13/13	16/18/20	16/16/18/20
Total rated current	A	26/26/28/28	36/40/42	36/36/38/42
Net weight (Approx)	Kg	2900/3150/3500/4300	4400/4800/5400/6200	4800/5200/5800/6600
Machine dimension (LxWxH)	mm	2600/3100/3600/4800x1600x1670	3500/4000/4500/5500x1900x1900	3500/4000/4500/5500x2000x2000

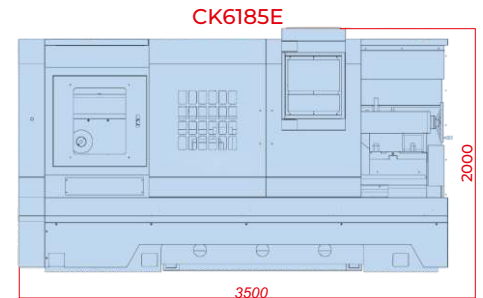
	CNC52E		CNC65E		CNC85E	
Recomended processing D./L. (mm)	φ 270	825/1325/1825/2825	φ 350	900/1400/1900/2900	φ 450	900/1400/1900/2900/3900
Max. processing D. (mm)	φ 520	-	φ 650	-	φ 850	-
Max. bar D. through spindle (mm)		φ 88		φ 104		φ 104



Area: 4.16m<sup>2</sup>



Area: 6.27m<sup>2</sup>



Area: 6.60m<sup>2</sup>

Specifications are subject to changed without prior notice.

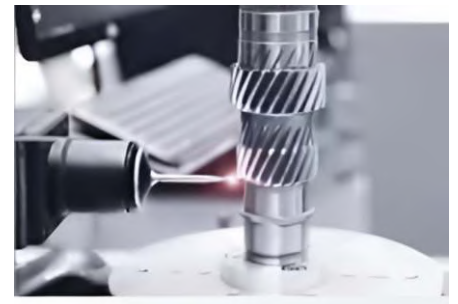
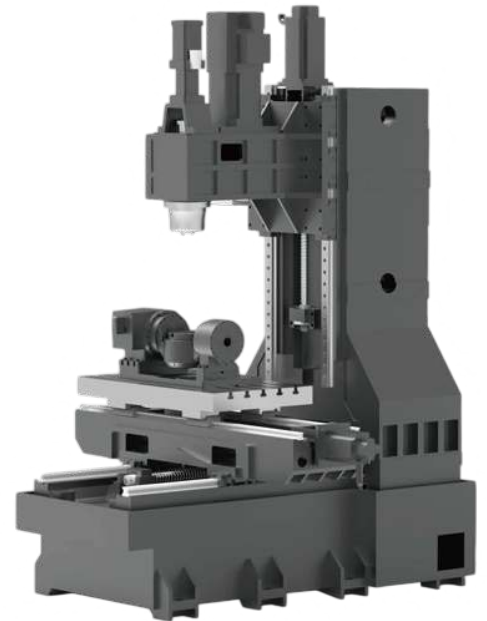
# VMC

## VERTICAL MACHINING CENTER



### VERTICAL MACHINING CENTER CHARACTERISTICS

- High quality resin sand castings
- Taiwan spindle
- Taiwan ball screw and locking nut
- Taiwan tool cylinder
- NSK bearings
- Automatic lubrication system
- Chip conveyor, 4th axis, 5th axis etc are optional.



Specifications are subject to changed without prior notice.

## VERTICAL MACHINING CENTER

TECHNICAL PARAMETER	UNIT	VMC450	VMC540	VMC640	VMC650
X/Y/Z-Axis Travel	mm	450/360/400	500/400/400	600/400/400	650/500/500
Distance From Spindle Nose To Table	mm	100-500	120-520	120-520	120-620
Distance From Spindle Center To Column Guideway	mm	320	390	450	550
Spindle Motor Power	kw	3.7/5.5	3.7/5.5	5.5/7.5	5.5/7.5
Spindle Speed	rpm	10000	10000	10000	10000
Spindle Taper		BT40(Φ120)	BT40(Φ120)	BT40(Φ120)	BT40(Φ120)
Positioning Accuracy	mm/300mm	±0.003	±0.003	±0.003	±0.003
Repeatability Accuracy	mm/300mm	±0.0015	±0.0015	±0.0015	±0.0015
Working Table Size	mm	900x400	600x400	700x400	800x500
Max. Working Table Load Capacity	kg	250	350	350	500
T-Slot Qty-Width-Distance	mm	4-14-100	4-14-90	4-14-100	5-18-100
X/Y/Z-Axis Rapid Feed Speed	m/min	15/15/15	15/15/15	24/24/24	36/36/36
Feed Speed	mm/min	1-10000	1-10000	1-10000	1-10000
Dia. Of X/Y/Z-Axis Ball Screw	mm	Φ32	Φ32	Φ32	Φ40
X/Y/Z Axis Servo Motor Power	kw	1.0/1.0/1.5	1.5/1.5/2.0	2.0/2.0/3.0	2.0/2.0/3.0
Linear Guideway Width	X-Axis	25 Ball/2/4	25 Ball/2/4	30 Ball/2/4	35 Ball/2/4
And Type/Qty/Block Qty	Y-Axis	30 Ball/2/4	30 Ball/2/4	30 Ball/2/4	35 Ball/2/4
Controller	Z-Axis	30 Ball/2/4	30 Ball/2/4	30 Ball/2/4	35 Ball/2/4
Tool Magazine	type	umbrell 16 tools	umbrell 16 tools	Arm 16 tools	Arm 24 tools
Max. Power Consumption	kva	9	11	11	11
Net Weight (Approx)	ton	1.9	2.0	2.9	3.7
Overall Dimensions	mm	2120*2010*2300	2200*2050*2350	2230*2240*2450	2230*2240*2450

TECHNICAL PARAMETER	UNIT	VMC850	VMC855	VMC866	VMC1050
X/Y/Z-Axis Travel	mm	800/500/500	850/550/550	850/600/600	1000/500/550
Distance From Spindle Nose To Table	mm	120-620	120-670	120-720	120-670
Distance From Spindle Center To Column Guideway	mm	550	595	650	500
Spindle Motor Power	kw	7.5/11	7.5/11	7.5/11	7.5/11
Spindle Speed	rpm	10000	10000	10000	10000
Spindle Taper		BT40(Φ150)	BT40(Φ150)	BT40(Φ150)	BT40(Φ150)
Positioning Accuracy	mm/300mm	±0.003	±0.003	±0.003	±0.003
Repeatability Accuracy	mm/300mm	±0.0015	±0.0015	±0.0015	±0.0015
Working Table Size	mm	1000x500	1000x550	1000x550	1200x500
Max. Working Table Load Capacity	kg	600	650	650	650
T-Slot Qty-Width-Distance	mm	5-18-100	5-18-100	5-18-100	5-18-100
X/Y/Z-Axis Rapid Feed Speed	m/min	48/48/48	36/36/36	36/36/36	48/48/48
Feed Speed	mm/min	1-10000	1-10000	1-10000	1-10000
Dia. Of X/Y/Z-Axis Ball Screw	mm	Φ40	Φ40	Φ40	Φ40
X/Y/Z Axis Servo Motor Power	kw	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0	2.0/2.0/3.0
Linear Guideway Width	X-Axis	35 Ball/2/4	35 Ball/2/4	45 Ball/2/4	35 Ball/2/6
And Type/Qty/Block Qty	Y-Axis	35 Ball/2/4	45 Ball/2/4	45 Ball/2/4	35 Ball/2/4
Controller	Z-Axis	35 Ball/2/4	45 Ball/2/6	45 Ball/2/6	35 Ball/2/6
Tool Magazine	type		FANUC / Siemens / GSK / Mitsubishi Arm 24 Tools		
Max. Power Consumption	kva	15	18	18	15
Net Weight (Approx)	ton	4.8	5.5	6	5
Overall Dimensions	mm	2570*2380*2450	2560*2430*2450	3050*2510*2650	2900*2240*2350

TECHNICAL PARAMETER	UNIT	VMC1160	VMC1270	VMC1380	VMC1580
X/Y/Z-Axis Travel	mm	1100/600/600	1200/700/600	1300/800/800	1500/800/800
Distance From Spindle Nose To Table	mm	120-720	120-720	150-850	150-850
Distance From Spindle Center To Column Guideway	mm	650	700	855	855
Spindle Motor Power	kw	11/15	11/15	15/18.5	15/18.5
Spindle Speed	rpm	10000	8000	6000	6000
Spindle Taper		BT40(Φ150)	BT40(Φ150)	BT50(Φ190)	BT50(Φ190)
Positioning Accuracy	mm/300mm	±0.003	±0.003	±0.003	±0.003
Repeatability Accuracy	mm/300mm	±0.0015	±0.0015	±0.0015	±0.0015
Working Table Size	mm	1200x600	1400x700	1400x800	1700x800
Max. Working Table Load Capacity	kg	900	1000	1000	1000
T-Slot Qty-Width-Distance	mm	5-18-100	5-18-140	7-18-110	7-22-110
X/Y/Z-Axis Rapid Feed Speed	m/min	36/36/36	36/36/36	20/20/20	20/20/20
Feed Speed	mm/min	1-10000	1-10000	1-10000	1-10000
Dia. Of X/Y/Z-Axis Ball Screw	mm	Φ40	Φ40	Φ50	Φ50
X/Y/Z Axis Servo Motor Power	kw	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0	3.0/3.0/3.0
Linear Guideway Width	X-Axis	45 Ball/2/6	45 Ball/2/6	55 Ball/2/6	55 Ball/2/6
And Type/Qty/Block Qty	Y-Axis	45 Ball/2/4	55 Ball/2/4	45 Ball/4/8	45 Ball/4/8
Controller	Z-Axis	45 Ball/2/6	45 Ball/2/6	55 Ball/2/6	55 Ball/2/6
Tool Magazine	type		FANUC / Siemens / GSK / Mitsubishi Arm 24 Tools		
Max. Power Consumption	kva	25	25	50	50
Net Weight (Approx)	ton	6.5	9	12	13
Overall Dimensions	mm	3200*2550*2600	3550*2809*3000	3700*2950*3300	4000*3000*3300

Specifications are subject to changed without prior notice.

# HORIZONTAL BORING

## DRO HORIZONTAL BORING AND MILLING MACHINE

### Convenient Economic efficient Reliable

The Bhavya series horizontal milling and boring machines are based on a classic design, suitable for rough and finished boring, capable of milling large and box type components. They excel at inner hole boring, cylindrical turning and grooving by radial feed of facing plate. A 4x90 optical positioning device allows for machining accuracy when turning large pieces. The precision digital read out measurement systems ensures accuracy of coordinates and lineation.



Large Torque



Multiple Procedures



Stability



Heavy Cutting

PARTICULARS / MODEL	UNIT	HBM110	HBM110A	HBM110B	HBM130	HBM130A
Spindle diameter	mm		110			130
Spindle Taper			Morse No6(Optional ISO7 : 24No50)			Metric 80(Optional ISO7 : 24No50)
Max. spindle Torque	N.m		1225			3116
Max. spindle thrust	N		12250			31360
Number of spindle speed			22			24
Range of spindle speed	r/min		8-1000			4-800
Power of main motor	KW		7.5			15
Max. facing head torque	N.m		1960			4900
Facing head diameter	mm		600			750
Range of facing head speed	r/min		4-200			2.5-125
Number of facing head speed			18			18
Table working surface (LW)	mm	1100x960	1100x960	1250x1100	1600x1400	1800x1600
Max. permissible load on table	kg	2500	2500	3000	8000	10000
T-slot	mm		22		28	28
Number of T-slot	-		7		9	11
X-axis travel	mm	900	1250	1600	1600	2000
Y-axis travel	mm	900	900	1200	1400	1800
Z-axis travel	mm		1400		1500	2000
W-axis travel (Spindle travel)	mm		600			900
U-axis travel (Facing slide travel)	mm		180			250
B-axis worktable rotary			360			360
Distance between spindle axis and table surface	mm		0-900		0-1400	0-1800
Rapid travel (X/Y/Z)/W)	mm/min		2500			2500
Range of axes speed per spindle revolution ((X/Y/Z)/W)	mm/rev		0.04-6/0.01-1.88			0.05-8/0.01-2
Measurement system reading precision ((X/Y)/Z)	mm		0.005			0.005
B-axis reading precision (optional)			0.001			0.001
Overall dimensions (LWH)	mm	4910x2454x2750	4910x2870x2750	5120x3380x3100	6995x3647x3442	7030x4665x3800
Weight of machine (Approx)	kg	13000	14500	18000	24500	29300

Specifications are subject to changed without prior notice.

# HORIZONTAL BORING

## DRO HORIZONTAL BORING AND MILLING MACHINE



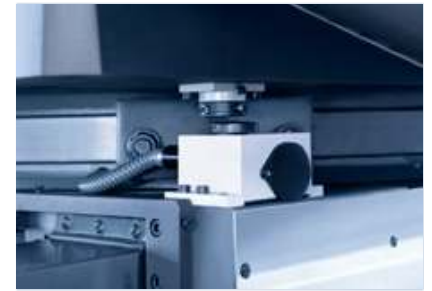
### High Quality Spindle

The three-layer mechanism ensures high rotational accuracy and the three-point support provides high rigidity and accuracy.



### Use Friendly Layout

The hanging operation panel provides flexible and convenient centralized operation. Hydraulic preselection controls speed and feed rate.



### Accurate & Stable optional Aiming

The worktables 4x90 optical positioning device ensures high positioning accuracy and high precision turnover.



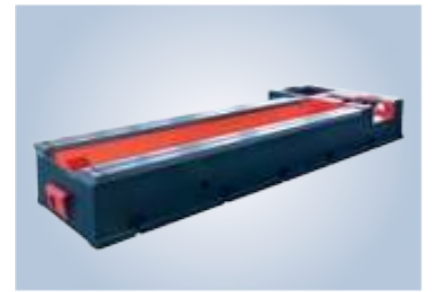
### Electro-hydraulic Interlock

All moving components feature electro-hydraulic interlocks. Only one component moves while others are clamped automatically.



### Workpiece Sample

Flange type component



### Bed

Our high quality castings feature polished and hardened guideways. The castings are internally reinforced to maximize rigidity and stability.



### Control System

PLC



### Internal Design

Easy to install, steady, and precise with a fully-enclosed structure to prevent oil, coolant, and chip intrusion.



### Column

Made of high quality castings with ground and hardened guideways, the optimized structural design easily supports the assembly.



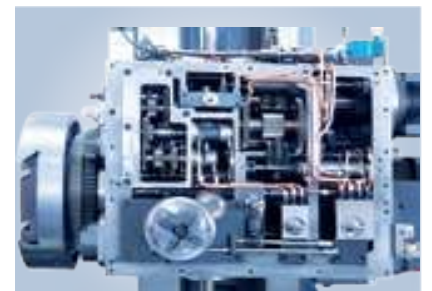
### Protective Enclosure

Welded high quality steel plates form an excellent protective cover.



### Hydraulic System

Pressure adjusted via relief valve. Variable speed achieved via a rotary valve.



### Headstock

Primary speed is controlled via switches on the headstock itself, a variety of rotational speeds are possible.

Specifications are subject to changed without prior notice.

# VERTICAL TURNING LATHE

## SINGLE COLUMN VERTICAL LATHE

- Advanced vertical lathe technology with FEA-based modular design
- Integrated mechanical, electrical, and hydraulic systems for high machining performance
- High-grade castings, heat-treated structure, and hardened guideways (HRC40+) for long life and stable accuracy
- Precision pentagon turret with 120-bisection rat tooth positioning for superior rigidity
- Reliable OMRON (Japan) PLC control with well-organized cabinet and premium components
- Standard 2-axis DRO (optional 4-axis DRO)
- 16-step speed change via electronic valve controller for smooth and reliable operation
- Precision-ground gearbox gears for low noise and long service life
- Versatile accessories, strong after-sales support, ready for immediate production
- Multiple options available: German MECANO panel box, Roller guideway, higher table stand, extended and square ram



PARTICULARS / MODEL	UNIT	SVT12	SVT16	SVT20	SVT23	SVT25	SVT26
Max. cutting diameter of vertical tool post	mm	1250	1600	2000	2300	2500	2600
Max. cutting diameter of side tool post	mm	1100	1400	1800	2000	2300	2400
Max. cutting height	mm	1000	1000/1200/1400	1250	1350	1600	1600
diameter	mm	1000	1400	1800	2000	2250	2250
max. loading	t	3.2	5	8	8	10	10
speed range	RPM	6.3-200	5-160	3.2-100	3.2-100	2-63	2-63
step range	step	16	16	16	16	16	16
max. torque	Kn.m	17.5	25	25	25	35	35
feeding rang	mm/min	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86
feed steps	step	12	12	12	12	12	12
cutting force	kn	20	25	25	25	25	25
vertical travel	mm	650	800/1000	800/1000	800/1000	1000	1000
horizontal travel	mm	700	915	1200	1300	1400	1500
swing angle	°	±30	+30	+30	+30	+30	+30
feed range	mm/min	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86	0.8-86
cutting force	kn	20	20	20	20	20	20
vertical travel	mm	900	900	900	900	900	900
horizontal travel	mm	630	630	630	630	630	630
Vertical (side) turret rapid travel speed	m/min	1.8	1.8	1.55	1.55	1.55	1.55
Cross beam travel	mm	650	650/850/1050	850	1050	1250	1250
Beam lifting speed	mm/min	350	350	350	350	320	320
Tool bar section size	mm	30*40	30*40	40*40	40*40	40*40	40*40
Feed motor power	kw	1.3/1.8	1.3/1.8	1.3/1.8	1.3/1.8	1.3/1.8	1.3/1.8
Main motor	kw	22	30	30	30	37	37
Machine weight (Approx)	t	8.5	12.4/14/14.8	17	18	23	26/28
Overall dimension(L*W*H)	mm	2360*2280*	2830*2670*	3200*2800*	3210*2850*	3300*4000*	3300*4000*
		2800	3010	3250	3300	3500	3500

Specifications are subject to changed without prior notice.

# VERTICAL TURNING LATHE

## DOUBLE COLUMN VERTICAL LATHE

- Advanced modular design, universal products, mature technology, stable accuracy and reliable quality.
- Great castings are made by our own foundry, and through heat aging treatment.
- Hardened guideway by extra-frequency induction machine (about HRC40). Sliding guideway combined with rollers on the cross rail.
- PLC control made by OMRON Japan. Good layout and cabling in cabinet, special careful selected components for super reliability.
- Separate hydraulic station, easy to set up, daily maintenance and repair.
- DRO and scales are standard.
- Grounded gears in the gearbox to ensure high precision, low noise and long lifetime.
- Two kinds of table guideway is available, i.e. dynamic static pressure and pure static pressure.



PARTICULARS / MODEL	UNIT	DVT25	DVT32	DVT35	DVT40	DVT50	DVT63
Max. cutting diameter	mm	2500	3200	3500	4000	5000	6300
Max. cutting height	mm	1600/2000 2500	1600/2000 2500	1600/2000	1600/2000 2500	2000/2500 3150	3150/4000
Worktable diameter	mm	2250	2830	2830	2830/3200 3600	4000/4500	4500/5000 5700
Max. loading weight	t	10/16/20	10/16/20	20	20/32/50	32/50	50/100
Worktable max. torque	kn.m	63	63	63	63	70	100
Worktable speed range	RPM	2-63	2-63	2-63	0.5-40	0.5-40	0.5-38
Worktable step	steps	16	16	16	16	16	16
Right tool post cutting force	kn	35	35	35	35	35/50	50/80
Left tool post cutting force	kn	28	28	28	28	28/40	40/70
Tool post horizontal travel	mm	1400	1700	1900	2150	2765	3450
Tool post vertical travel	mm	1000/1250 1400	1000/1250	1000/1250	1000/1400	1250/1400 1600	1600/2000
Crossbeam travel	mm	1250/1650/ 2150	1250/1650/ 2150	1250/1650	1250/1650/ 2150	1500/2000/ 2650	2650/3500
Main motor	kw	AC55	AC55	AC55	AC55	AC55/75	AC75/90/110
Machine weight (Approx)	t	32/34/36	39/42	40/43	43/45/48	60/65/70	118/127/178
Overall dimension(L*W*H)	mm	5180*4700* 4800	6000*4860* 5000	6400*5050* 5200	6900*5200* 5700	9200*5800* 5800	11500*7500* 9300

Specifications are subject to changed without prior notice.

# BANDSAW

## HORIZONTAL BANDSAW DOUBLE COLUMN SEMI AUTOMATIC



MODEL	BDH-200A	BDH-280A	BDH-350A	BDH-400A	BDH-500A
Cutting Capacity Round	200mm	280mm	350mm	400mm	500mm
Cutting Capacity Square	200x200mm	280x280mm	350x350mm	400x400mm	500x500mm
Blade Size	2800x27x0.9mm	3505x34x1.1mm	4115x34x1.1mm	5000x41x1.3mm	5800x41x1.3mm
Blade speed	27,45,69m/min	27,45,69m/min	27,45,69m/min	27,45,69m/min	27,45,69m/min
Clamping Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Main Motor Power	1.5KW	2.2KW	3.0KW	4KW	5.5KW
Hydraulic Motor Power	0.55kw	0.55kw	0.55kw	0.75kw	0.75kw
Coolant Motor	0.04kw	0.04kw	0.04kw	0.125kw	0.125kw
Power Supply	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase
Overall Dimension	1400x900x1100mm	1860x1000x1400mm	2000x1100x1500mm	2500x1300x1600mm	2800x1300x2000mm

### STANDARD ACCESSORIES

- Saw Blade
- Coolant System
- Machine Lamp
- Blade tensioning Wrench
- Tool Kit
- Adjustment Bar Support Stand
- Operating & Instruction manual

### SALIENT FEATURES

- Stress Relieved Fabricated Steel Structure
- Hard Chrome Plated ground Column
- Automatic Height Adjustment for Saw Frame
- Variable Pressure Control for Cutting Feed
- Auto Cutting Stop
- Push Button Type Operating Panel Board
- Heavy Duty Worm Gear box
- Moveable Blade Support Guide
- Manual Blade Tensioning Arrangement
- Material Feeding Manually
- Job Clamping Hydraulic



Cutting Accuracy



Push Button Type Operating Panel Board



Adjustable Height

Specifications are subject to changed without prior notice.

# BANDSAW

## HORIZONTAL BANDSAW DOUBLE COLUMN SEMI AUTOMATIC



MODEL	BDH-600A	BDH-700A	BDH-800A	BDH-1000A
Cutting Capacity Round	600mm	700mm	800mm	1000mm
Cutting Capacity Square	600x600mm	700x700mm	800x800mm	1000x1000mm
Blade Size	6640x41x1.3mm	7205x54x1.6mm	8820x67x1.6mm	9820x67x1.6mm
Blade speed	27,45,69m/min	27,45,69m/min	27,45,69m/min	15-60m/min
Clamping Type	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Main Motor Power	5.5KW	5.5KW	7.5KW	11KW
Hydraulic Motor Power	1.1kw	1.1kw	2.2kw	3.75kw
Coolant Motor	0.125kw	0.125kw	0.125kw	0.09kw
Power Supply	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase
Overall Dimension	3150x1300x2100mm	3500x1800x2500mm	4130x2150x2500mm	4560x2170x3040mm

### STANDARD ACCESSORIES

- Saw Blade
- Coolant System
- Machine Lamp
- Blade tensioning Wrench
- Tool Kit
- Adjustment Bar Support Stand
- Operating & Instruction manual

### SALIENT FEATURES

- Stress Relieved Fabricated Steel Structure
- Hard Chrome Plated ground Column
- Automatic Height Adjustment for Saw Frame
- Variable Pressure Control for Cutting Feed
- Auto Cutting Stop
- Push Button Type Operating Panel Board
- Heavy Duty Worm Gear box
- Moveable Blade Support Guide
- Manual Blade Tensioning Arrangement
- Material Feeding Manually
- Job Clamping Hydraulic



Control Panel



Push Button Type Operating Panel Board



Adjustable Height

Specifications are subject to changed without prior notice.

# BANDSAW

## HORIZONTAL BANDSAW DOUBLE COLUMN FULLY AUTOMATIC



MODEL	BDH280P	BDH350P	BDH400P
Cutting Capacity Round	280mm	350mm	400mm
Cutting Capacity Square	280x280mm	350x350mm	400x400mm
Blade Size	3505x27x0.9mm	4115x34x1.1mm	5000x41x1.3mm
Blade speed	27,45,69m/min	27,45,69m/min	27,45,69m/min
Clamping Typ	Hydraulic	Hydraulic	Hydraulic
Material Feeding	Automatic (0-500mm)	Automatic (0-500mm)	Automatic (0-500mm)
Main Motor Power	3.0Kw	4.0Kw	4.0Kw
Hydraulic Motor Power	0.75kw	0.75kw	0.75kw
Coolant Motor	0.04kw	0.04kw	0.125kw
Power Supply	415V-50Hz-3Phase	415V-50Hz-3Phase	415V-50Hz-3Phase
Overall Dimension	1860x2400x1400mm	2000x2500x1500mm	2500x2500x1600mm



Optional Attachment  
3 CLAMPING DEVICE

### STANDARD ACCESSORIES

- Saw Blade
- Coolant System
- Machine Lamp
- Blade tensioning Wrench
- Tool Kit
- Adjustment Bar Support Stand
- Operating & Instruction manual

### SALIENT FEATURES

- Stress Relieved Fabricated Steel Structure
- Hard Chrome Plated ground Column
- Automatic Height Adjustment for Saw Frame
- Variable Pressure Control for Cutting Feed
- Auto Cutting Stop
- Push Button Type Operating Panel Board
- Heavy Duty Worm Gear box
- Moveable Blade Support Guide
- Manual Blade Tensioning Arrangement
- Material Feeding Auto
- Job Clamping Hydraulic



Optional Attachment  
ELECTRIC FEED RACK

Specifications are subject to changed without prior notice.

# BANDSAW

## HORIZONTAL BANDSAW DOUBLE COLUMN SEMI AUTOMATIC (DEGREE CUTTING)



MODEL	UNIT	TBK4228A	TBK4235A	TBK4240A	TBK4250A
Cutting capacity 90	Rectangular	mm 280x320	335x370	375x540	500x600
	Circular	mm 280	335	375	500
	Square	mm 280	335	375	500
Cutting capacity 45	Rectangular	mm 280x240	335x380	375x380	400x500
	Circular	mm 200	335	375	400
	Square	mm 200	335	375	400
cutting capacity 30	Rectangular	mm 280x240	335x440	375x500	440x500
	Circular	mm 240	335	375	440
	Square	mm 240	335	375	440
Speed	M/min	27,45,69	27,45,69	27,45,69	27,45,69
Blade size	mm	3850x27x0.9	4515x34x1.1	5400x41x1.3	5400x41x1.3
Main motor power	kw	3	3	4	5.5
Hydraulic motor power	kw	0.55	0.55	1.5	1.5
Cooling pump power	kw	0.04	0.04	0.125	0.125
Machine overall size	mm	1900x1400x1500	2100x1500x1600	2400x1800x1850	3000x1850x2200
Approx Weight (Approx)	kg	820	950	1800	2400

### SALIENT FEATURES

- Stress Relieved Fabricated Steel Structure
- Hard Chrome Plated ground Column
- Automatic Height Adjustment for Saw Frame
- Variable Pressure Control for Cutting Feed
- Auto Cutting Stop
- Push Button Type Operating Panel Board
- Heavy Duty Worm Gear box
- Moveable Blade Support Guide
- Manual Blade Tensioning Arrangement
- Material Feeding Manually

### STANDARD ACCESSORIES

- Saw Blade
- Coolant System
- Machine Lamp
- Blade tensioning Wrench
- Tool Kit
- Adjustment Bar Support Stand
- Operating & Instruction manual



Swivel bow with precision guide



Swivel angle indicator



Hydraulic clamping vise

Specifications are subject to changed without prior notice.

# BANDSAW

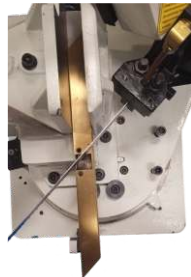
## HORIZONTAL SWING-ARM METAL CUTTING BANDSAW



MODEL	BS712N	BS712GR	BS912B	BS912GR	BS1018B
Capacity Round @ 90°	Ø178mm	Ø178mm	Ø229mm	Ø229mm	Ø254mm
Capacity Rectangular @ 90°	178x305mm	178x210mm	178x305mm	178x305mm	127x457mm
Capacity Round @ 45°	Ø127mm	Ø127mm	Ø150mm	Ø150mm	Ø150mm
Capacity Rectangular @ 45°	120x125mm	85x140mm	127x150mm	127x150mm	150x190mm
Blade Size	2362x19x0.9mm	2362x19x0.9mm	2655x27x0.9mm	2655x27x0.9mm	3280x27x0.9mm
Blade Speed	22,33,45,65m/min	39,66,82m/min	39,66,82m/min	31,65,95m/min	29,50,73,95m/min
Drive	V-Belt	Gear	V-Belt	Gear	V-Belt
Job Clamping Type	Manual	Manual	Manual	Manual	Manual
Main Motor Power	1.5HP	1.0HP	1.5HP	1.5HP	2.0HP
Packing Dimension	1250x510x1150mm	1320x770x1150mm	1540x590x1150mm	1600x600x1150mm	1830x830x1150mm
Net/Gross Weight (Approx)	145/178kgs.	175/197kgs.	230/260kgs.	220/260kgs.	310/385kgs.



Degree Indicator (vice)



Degree Cutting Arrangement



Bandsaw Blade

Specifications are subject to changed without prior notice.

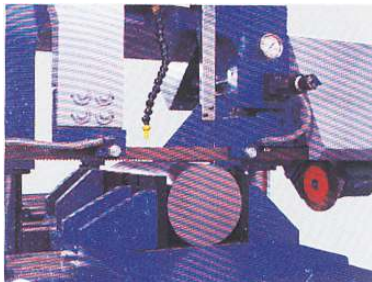
# BANDSAW

## HORIZONTAL METAL CUTTING BANDSAW



MODEL		BMB-1	BMB-1HS	BMB-10HS	BMB-2HS	BMB-3HS	BMB-4HS
<b>CAPACITY</b>		175mm	200mm	250mm	300mm	350mm	400mm
Round	mm	175mm	200mm	250mm	300mm	350mm	400mm
Square	mm	150 x 150	150 x 150	200 x 200	250 x 250	300 x 300	350 x 350
<b>DRIVE</b>							
Drive Motor	HP/RPM	0.5 / 1440	1 / 1440	1.5 / 1440	2 / 1000	2 / 1440	3 / 1000
Coolant Pump	HP/Volts	0.15 /440	0.15 /440	0.15 /440	0.15 /440	0.15 /440	0.15 /440
Blade Speed	Meter/Minute	33/55/75	20/33/55/75	35/55/75	35/55/75	35/55/75	35/55/75
<b>OTHER</b>							
Bandsaw Blade	mm	2515x19x0.9	3000x27x0.9	3300x27x0.9	3760x27x0.9	4100x27x0.9	4420x34x1.1
Guide Pulley dia	mm	340	410	425	496	496	550
Floor Space LxWxH	mm	1500x570x870	1800x700x950	2000x600x900	2150x800x1100	2500x840x1100	2650x830x1200
Net Weight (Approx)	kg.	272	322	400	761	821	900

Sizes available 175 to 400 mm



Specifications are subject to changed without prior notice.

# BANDSAW

## VERTICAL BANDSAW



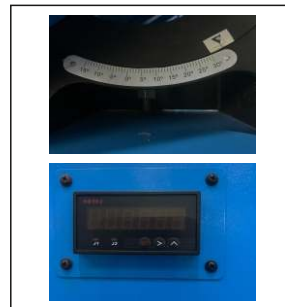
MODEL		VS-500	VS-585
Max Cutting	Height	310 mm	336mm
Capacity	Width	500mm	585mm
Table Size		660 x 700 mm	660x700mm
Blade Speed (50Hz)		1440 rpm	0-1400rpm
Length of saw blade		3980-4050 mm	4430-4520mm
Blade width		3-16 mm	6-19mm
Table Tilt		R-30°, L-15°	R-30,L-15
Main Motor/Grinde Motor		1.5kW(2HP), 0.09kW(1/8HP)	1.5kW(2HP),0.09kW(1/8HP)
Electric Welder		2.4KVA	2.4KVA
Packing Size		1400x900x2200 mm	1470x950x2300mm
N.W/G.W (Approx)		410/470 kg	410/470kg



Adjustable Circular Blade



Tilting Table



Production Count



Pressure Gauge

Specifications are subject to changed without prior notice.

# GRINDER

## HYDRAULIC SURFACE GRINDER



MODEL		HSG5025PRO	HSG6030PRO	HSG8040PRO
Size of worktable (WxL)	mm	250x500	300x600	400x800
Max grinding work piece size (WxLxH)	mm	500x250x330	300x600x300	400x800x400
Max worktable longitudinal movement	mm	520	620	820
Worktable cross movement	mm	275	325	440
Max distance from spindle center-line to worktable surface	mm	65-430	430	575
Max load of worktable	Kg	100	150	400
T-slot	mmxn	12x1	14x1	18x3
Bench speed	m/min	3-23	3-23	0-26
Cross hand wheel graduation	mm	0.02	0.02	0.02
Cross hand wheel per revolution	mm	3	3	4
Grinding wheel size (DxWxD)	mm	200x16x31.75	200x20x31.75	350x32x127
Grinding head rapid move speed	mm/min	750	750	750
Spindle moter	Kw	1.1	1.5	5.5
Spindle rotation speed	r/min	2850	2850	1450
Grinding head lifting servo motor power	Kw	1	1	1
Front & back movement feed motor power	W	90	90	120
Oil pump motor power	Kw	0.75	1.5	1.5
Work piece surface roughness	Ra	0.63	0.63	0.63
Overall size of machine (L x W x H)	mm	1260x1190x1660	1870x1200x1840	2260x1790x1917

**Accessories : Wheel Flange, Grinding Wheel, Wheel Dresser, Electric Motor, Spanner, Wheel Puller, Coolant System, Electric Pane; Board, Centralized Lubrication System, PLC + Electro Magnetric Chuck + Ball Lead Screw + Air Cooling + Servo Motor and Reducer in Vertical Axis**

Specifications are subject to changed without prior notice.

# GRINDER

## HYDRAULIC SURFACE GRINDER



### OPTIONAL ACCESSORIES



2 Axis DRO

MODEL	HSG4523A+	HSG5025A+	HSG6030A+	HSG8040A+	HSG10040A+
Grinding Capacity: LxWxH	450x230x330mm	500x250x330mm	600x300x300mm	800x400x405mm	1000x400x430mm
Longitudinal table travel	500mm	520mm	620mm	820mm	1020mm
Cross table travel	250mm	275mm	325mm	440mm	440mm
Max. Distance from the spindle Centre to the work table surface	430mm	410mm	400mm	580mm	580mm
Safely load of bench (in Max)	100kgs	100kgs	150kgs	400kg	400kg
Table size	450x230mm	500x250mm	600x300mm	800x400mm	1000x400mm
T-slot	12x1mm	12x1mm	14x1mm	18x3mm	18x3mm
Bench speed	3-23 m/min	3-23 m/min	3-23 m/min	0-26 m/min	0-26 m/min
Cross auto feed	0.6-10 mm/div	0.6-10 mm/div	0.6-10 mm/div	0.5-20 mm/div	0.5-20 mm/div
Cross rapid feed	144	1.44m/min.			
Cross hand wheel per Graduation	0.002	0.02mm	0.02mm	0.02mm	0.02mm
Cross hand wheel per Revolution	0.15mm	3mm	3mm	4mm	4mm
Grinding Wheel size (DxWxD)	200x16 32mm	200x16x31.75mm	200x16x32mm	350x32x127mm	350x32x127mm
Spindle Speed	2850r/min	2850r/min	2850r/min	1450r/min	1450r/min
Max. Movement of vertical Mechanism	430mm	410mm	400mm	-	-
Vertical fine adjustment Revolution	0.15mm	0.15mm	0.15mm	0.04mm	0.04mm
Vertical per fine adjustment Graduation	0.002	0.002	0.002	0.001mm	0.001mm
Spindle motor	1.1kw	1.1kw	1.5kw	5.5kw	5.5kw
Overall Dimension (LxWxH)	1500x1180x1800mm	1550x1180x1840mm	1870x1200x1840mm	2260x1790x1917mm	2660x1790x1917mm
Net Weight/Gross Weight (Approx)	1300/1500kgs	1400/1600kgs	1700/2000kgs	3000/3300kgs	3800/4200kgs



Hydraulic Control Panel



Sliding Control



Grinding Head With Close Loop Magnetic Chuck

Specifications are subject to changed without prior notice.

# GRINDER

## HYDRAULIC SURFACE GRINDER EXTRA HEAVY DUTY



HEAD MOVEMENT

### OPTIONAL ACCESSORIES



2 Axis DRO

MODEL	HSG10050	HSG12550	HSG16050	HSG12560	HSG16060	HSG20060
Size of Work Table LxW	1000x500mm	1250x500mm	1650x500mm	1250x600mm	1600x600mm	2000x600mm
Longitudinal table Travel	1100mm	1350mm	1700mm	1350mm	1700mm	2100mm
Max. Distance from the spindle						
Center to the worktable Surface	600mm	680mm	800mm	800mm	800mm	800mm
Max. cross travel of grinding head	550mm	550mm	580mm	650mm	650mm	650mm
Max. vertical travel of Grinding Head	600mm	600mm	600mm	600mm	600mm	600mm
Vertical movement of Grinding Head	0.01/1mm	0.01/1mm	0.01/1mm	0.01/1mm	0.01/1mm	0.005mm
Rapid Lifting Motor	0.37kw	0.37kw	0.37kw	0.37kw	0.37kw	0.37kw
Abrasive wheel Dim (0DxIDxW)	400x127x40mm	400x127x40mm	400x203x50mm	400x203x50mm	400x203x50mm	400x203x50mm
Speed of grinding Wheel	1440rpm	1440rpm	1440rpm	1440rpm	1440rpm	1440rpm
Total power of Motor	12kw	12kw	12kw	14kw	14kw	14kw
Power of spindle motor	7.5kw	7.5kw	7.5kw	7.5kw	7.5kw	7.5kw
Power of oil Pump Motor	4kw	4kw	5.5kw	5.5kw	5.5kw	5.5kw
Processing accuracy	0.015/1000mm	0.015/1000mm	0.015/1000mm	0.015/1000mm	0.015/1000mm	0.015/1000mm
Surface Roughness	Ra:0.63µm	Ra:0.63µm	Ra:0.63µm	Ra:0.63µm	Ra:0.63µm	Ra:0.63µm
Net/Gross Weight (Approx)	4500/4800kg	5300/6000kg	6000/6900kg	5600/6300kg	6500/7300kg	7500/8200kg
Dimension	3000x1500x2200mm	3800x2700x2800mm	4500x2700x2800mm	3800x2700x2800mm	4500x2700x2800mm	5500x2700x2800mm

### SAILENT FEATURES

- Heavy Duty machine Structure & Table Movement Design
- The accuracy of this machine is 0.005mm and it can meet the routine machining job requirement.
- The worktable longitudinal movement is driven by the vane pump, so that to make the movement stable and fluently with low noise.
- The wheel head adopts the bearing bush structure, so that to handle the heavy duty machining job.
- The machine gets the hydraulic auto feed and manual feed in cross feed unit. which is very convenient for operation.
- The wheel head vertical movement is controlled manually, it also equips with the rapid elevating unit to improve the working efficiency.
- The machine not only works stable and performance reliable, but also gets the advantages of low noise, accuracy stable and easy operation.

### STANDARD ACCESSORIES

- Diamond Dresser Base
- Wheel Extractor
- Balancing Stand & Arbor
- Foundation Bolts and Wedges
- Brush
- Electro Magnetic Chuck
- Tool Kit

### OPTIONAL ACCESSORIES

- Wheel Balancing Stand
- Diamond Dresser
- Demagnetizer

Specifications are subject to changed without prior notice.



for more Information, scroll on

[www.bhavyamachinetools.com](http://www.bhavyamachinetools.com)

# GRINDER

## HYDRAULIC SURFACE GRINDER (WITH DRO)



MODEL	HSG1022	HSG1224	HSG1230
Table size (mm)	540x250	600x300	750x300
Max. table travel (mm)	560x260	650x310	780x310
Max. distance from table to spindle center (mm)	450	530	530
Table slide-way	Double-V rail	Double-V rail	Double-V rail
Feed of cross Handwheel per revolution (in)	0.1	0.1	0.1
Feed of cross Handwheel per graduation (in)	0.0005	0.0005	0.0005
Feed of Vertical Handwheel per revolution (in)	0.05	0.05	0.05
Feed of Vertical Handwheel per graduation (in)	0.0002	0.0002	0.0002
Wheel speed (60HZ)	3440	1680	1680
Wheel size (WA46K5V)	200x31.75x20	300x75x30	300x75x30
Power of Spindle motor (W)	1500	2200	2200
Hydraulic station motor (W)	1500	2200	2200
Working Pressure (Mpa)	3	4	4
Max. runoff (L/min)	18	20	20
Fuel tank capacity (L)	80	100	100
Coolant pump (W)	40	40	40
Machine net weight (kg)	900	1300	1400
Packing gross weight (kg)	1000	1400	1530
Machine size (M)	1800x1400x1800	1800x1400x1800	1890x1500x1830
Packing size (m)	1630x1250x1890	2000x1600x2020	2000x1600x2030



2 Axis DRO



Air Cooler



Z Axis Rapid Movement

Specifications are subject to changed without prior notice.

# GRINDER

## MANUAL SURFACE GRINDER



HSG4515



HSG4523



HSG5025

OPTIONAL ACCESSORIES



2 Axis DRO

MODEL	HSG4523	HSG5025	HSG6030
Grinding Capacity (LxWxH)	450x230x330mm	500x250x330mm	600x300x300mm
Longitudinal Table Travel	500mm	520mm	620mm
Cross Table Travel	250mm	270mm	325mm
Max. Distance from the Spindle to the work table surface	430mm	430mm	400mm
Safety Load of Bench	100kgs	100kgs	150kgs
Table Size	450x230mm	500x250mm	600x300mm
T. Slot	1x12	1x12	1x14
Cross hand wheel per Graduation	0.02mm	0.02mm	0.02mm
Cross hand wheel per Revolution	3mm	3mm	3mm
Grinding Wheel size (DxWxT)	200x16x31.75mm	200x16x31.75mm	200x16x31.75mm
Spindle Speed	2850r/min	2850r/min	2800r/min
Max Movement of vertical mechanism	430mm	430mm	400mm
vertical Fine Adjustment Revolution	0.15mm	0.15mm	0.15mm
Vertical Fine Adjustment Graduation	0.002mm	0.002mm	0.002mm
Spindle motor	1.1kw	1.1kw	1.5kw
Lifting Motor	0.12kw	0.12kw	0.12kw
Coolant motor	0.04kw	0.04kw	0.04kw
Overall Dimensions	1150x1040x1900mm	1260x1190x1660mm	1870x1200x1840mm
Net Weight/Gross Weight (Approx)	900/1000kgs	1100/1200kgs	1700/1200kgs

MODEL	HSG4515
Size of work Table (LxWxH)	450x152x280mm
Longitudinal table travel	470mm
Cross Table Travel	178mm
Max. Distance From the Spindle to the Work Table Surface	370mm
Safety Load of Bench (in Max.)	80 kg
T.Slot	1x12
Main Motor Power	1.1 kw
Spindle Speed	2800 r/min
Abrasive Wheel Dim (DxDxW)	180x13x32mm
Overall Dimensions (LxWxH)	1100x1180x1950mm
Net Weight/Gross Weight	65/800kgs

### STANDARD ACCESSORIES

- Permanent magnetic chuck
- Machine Lamp
- One shot Lubrication System
- Coolant system
- Tool box
- Operation manual



Micro Feeding



Micro Feeding X Axis Movement Wire Roap



Inside Panel

Specifications are subject to changed without prior notice.

# MILLING

## VERTICAL TURRET MILLING



Square head - M4S & M4SZ



■ Box Guide Way



▲ Dovetail Guide way



■ Z Axis box Way



Extra Height - H series



Lubrication System



Arm Rotate 360 Degree



machine lamp



Round Head 5HP - M5 & M5Z



Z Axis motorized - Z Series



Head Rotate & Tilting



Dial

Specifications are subject to changed without prior notice.

# MILLING

## VERTICAL TURRET MILLING

MODEL	M3	M3H	M4	M4A
Milling Head	Square	Square	Square	Square
Table Size	1270 x 254mm	1270 x 254mm	1370 x 254mm	1370 x 254mm
T-Slot (No./Size/Distance)	3/16mm/65mm	3/16mm/65mm	3/16mm/65mm	3/16mm/65mm
Max. Load on Table	300Kgs.	300Kgs.	300Kgs.	300Kgs.
X - Axis Travel	760mm	760mm	860mm	860mm
Y - Axis Cross Travel	400mm	400mm	400mm	400mm
Z - Axis Vertical Travel	405mm	500mm	405mm	405mm
X-Axis Guide Way	▲	▲	▲	▲
Y-Axis Guide Way	▲	▲	▲	▲
Z-Axis Guide Way	▲	▲	▲	▲
Ram Travel	510mm	510mm	510mm	580mm
Spindle Taper	R8(NT30/NT40- Optional)			
Spindle Quill Travel	127mm	127mm	127mm	127mm
Quill Feed	0.04, 0.08, 0.15	0.04, 0.08, 0.15	0.04, 0.08, 0.15	0.04, 0.08, 0.15
No. of Spindle Speed	16	16	16	16
Range of Spindle Speed	80-5440rpm	80-5440rpm	80-5440rpm	80-5440rpm
Spindle Nose to Table	70-470mm	70-600mm	70-470mm	70-470mm
Head Tilt	+90° Left & Right±45° Front & Back			
Motor power	3HP	3HP	3HP	3HP
Motor Power - Z Axis	-	-	-	-
Weight (Approx)	1200kgs	1250kgs	1250kgs	1300kgs

MODEL	M4S	M4SA	M5	M5Z
Milling Head	Square	Square	Square	Square
Table Size	1370 x 254mm	1370 x 305mm	1370 x 305mm	1370 x 305mm
T-Slot (No./Size/Distance)	3/16mm/65mm	3/16mm/65mm	3/16mm/65mm	3/16mm/65mm
Max. Load on Table	300Kgs.	300Kgs.	350Kgs.	350Kgs.
X - Axis Travel	860mm	860mm	860mm	860mm
Y - Axis Cross Travel	400mm	400mm	380mm	380mm
Z - Axis Vertical Travel	405mm	480mm	360mm	360mm
X-Axis Guide Way	▲	▲	▲	▲
Y-Axis Guide Way	▲	▲	▲	▲
Z-Axis Guide Way	▲	▲	▲	▲
Ram Travel	580mm	580mm	580mm	580mm
Spindle Taper	R8(NT30/NT40- Optional)			
Spindle Quill Travel	127mm	127mm	127mm	127mm
Quill Feed	0.038, 0.076, 0.20	0.038, 0.076, 0.20	0.038, 0.076, 0.20	0.038, 0.076, 0.20
No. of Spindle Speed	16	16	16	16
Range of Spindle Speed	66-4540rpm	70-3600rpm	66-4540rpm	66-4540rpm
Spindle Nose to Table	70-470mm	70-600mm	70-550mm	70-550mm
Head Tilt	+90° Left & Right±45° Front & Back			
Motor power - Milling Head	3HP	3.0HP	5.0HP	5.0HP
Motor Power - Z Axis	-	-	-	0.5HP
Weight (Approx)	1400kgs	1425kgs	1500kgs	1525kgs

### STANDARD ACCESSORIES



2 Axis DRO



Collet Set



Clamping Kit 52 Pcs.



Machine Vice



Chip Pan Tray

### OPTIONAL ACCESSORIES



X & Y AXIS Power Feed



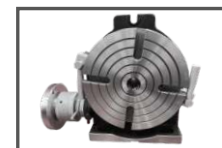
X & Y AXIS Mechanical Power Feed



Micro Boring Head Set



Keyless drill chuck



Horizontal & Vertical Rotary Table

Specifications are subject to changed without prior notice.

# MILLING

## ALL GEARED DRILLING & MILLING MACHINE



OPTIONAL - DRO

MODEL	UNIT	ADM 1232A	ADM 1332A
Table Size	mm	1250x320	1370x320
T Slot	no	3/14/70	3/14/70
Max. Load Of Table	kg	200kgs	200kgs
Table Longitudinal Travel (Manual/Auto) X	mm	620mm	740mm
Table Cross Travel (Manual/ Auto) Y	mm	275mm	275mm
Table Vertical Travel (Manual / Auto) Z	mm	410mm	410mm
Spindle Taper		ISO40	ISO40
Spindle Speed step - Vertical	rpm	8/90-2000rpm	8/90-2000rpm
- Horizontal	rpm	12/40-1300rpm	12/40-1300rpm
Max. Drilling Diameter	mm	30mm	30mm
Max. End Milling Width	mm	100mm	100mm
Max. Vertical Milling Dia	mm	25mm	25mm
Max. Tapping Dia	mm	M16	M16
Quill Travel	mm	120mm	120mm
Swivel Angle of Headstock	degree	±45°	±45°
Vertical Spindle Axis To Column Surface	mm	200-700mm	200-700mm
Vertical Spindle Axis To Table Surface	mm	95-500mm	95-500mm
Longitudinal/cross Feed - X Y	mm	22-555/8steps.	22-555/8steps.
Vertical/step - Z	mm/Steps	540/8 Steps	540/8 Steps
Spindle quill feed		Manual+Auto	Manual+Auto
Main motor	Kw	2.2	2.2
X, Y & Z Axis-feed motor	Kw	0.37	0.37
Coolant motor	Kw	0.04	0.04
N/W (Approx)	Kgs.	1550 Kgs.	1600 Kgs.

### STANDARD ACCESSORIES

- 3 Axis DRO for X, Y & Z Axis
- Horizontal Milling Arbor Dia 22 AND 27
- Coolant Pump With Fittings
- Drill Chuck- Ø 16mm
- Spindle Arbor ISO-40B16
- Draw Bar
- Reduction Sleeve
- Up/Down hand Wheel
- Tool Box

### OPTIONAL ACCESSORIES

- Boring Head
- Rotary Table Horizontal & Vertical (With Indexing Device)
- Angle Plate



Control Panel with DRO



Box Cross Guide Way



X/Y- Axis feed Gear Box



Lubrication Pump



Longitudinal & Cross Feed Motor



Vertical Motorized Travel



Coolant Pump

Specifications are subject to changed without prior notice.

# MILLING

## VERTICAL KNEE TYPE MILLING



EVM-1332

MODEL	EVM-1332	EVM-1536
Table Size	1320 x 320 mm	1500 x 360 mm
Number/Width/ Distance of T-Slot	5-14-63 mm	3-18-80 mm
Max. Load of Table	300 kg	300 kg
Longitudinal travel	1000 mm	1100 mm
Transverse Travel	300 mm	300 mm
Vertical travel	400 mm	380 mm
Cutting feed speed (X/Y) mm/min	8/20-360	8/22-555
Cutting feed speed (Z) mm/min	1-400	1-590
Rapid feed speed (X/Y) mm/min	1200/1200/400	1100/1100/600
Spindle Nose to Table Distance (mm)	35/435 mm	60/440 mm
Dist. From Spindle Axis to Vertical Guideway	360 mm	320 mm
Spindle Taper	ISO-50	ISO-50
Spindle Travel	70 mm	70 mm
Spindle Speed Range	58-1710 rpm	60-1700 rpm
Spindle Speed Step	12 (steps)	12 (steps)
Max. Swivel Angle of Spindle	± 35°	± 35°
Spindle Motor Power	4kw	4kw
Overall Dimension (mm)	2020 x 1820 x 1880	2200 x 1820 x 1880
Machine Weight (Approx)	2300kg	2400kg

### STANDARD ACCESSORIES

- Draw Bar
- Coolant System
- Mill Chuck
- Machine Lamp
- ISO-50 Collet (8 Pcs)
- Clamping Kit
- Tool box
- Chip Pan Tray
- ISO-50 Collet Adaptor With Key

### OPTIONAL ACCESSORIES

- Boring Head
- Rotary Table Horizontal & Vertical (With Indexing Device)
- Angle Plate
- 3 Axis DRO for X,Y,Z Axis



Auto Feed Gear Box



Vertical Speed Gear Box



Control Panel with DRO



Box Guide Way



Lubrication Pump

Specifications are subject to changed without prior notice.

# MILLING

## UNIVERSAL KNEE TYPE MILLING

Universal Milling With Swivel Table



EM-1332



OPTIONAL - DRO

MODEL	EM-1336	EM-1536	EM-1636
Table Size (mm)	1320x360	1500x360	1650x360
Number/Width/Distance of T-Slot (mm)	3-14-95	3-18-80	5-14-95
Max. Load of Table (kg)	300	300	300
Longitudinal travel (mm)	1000	1100	1300
Transverse Travel (mm)	300	300	300
Vertical travel (mm)	420	380	400
Cutting feed speed (X/Y) mm/min	22-420/22-393	22-555/22-555	22-420/22-393
Cutting feed speed (Z) mm/min	6/10-112	1/590	6/8-112
Rapid feed speed (X/Y/Z) mm/min	1290/1205/500	1100/1100/600	1290/1205/500
Spindle Nose to Table Distance (mm)	0/400	60/440	0/400
Spindle Taper	ISO-50	ISO-50	ISO-50
Spindle Speed Range (R.P.M)	58-1800	60-1700	58-1800
Max. Swivel Angle of Spindle	± 35°	± 35°	± 35°
Spindle Motor Power (kw)	4	4	4
Feed Motor Power (kw)	1.1	1.1 (x,y)/0.75 (z)	1.1
Overall Dimension (mm)	2070x2050x1850	2200x1820x1880	2070x2050x1950
Machine Weight (kg) (Approx)	2300	2400	2600

### STANDARD ACCESSORIES

- Vertical ISO-40
- Draw Bar
- Stub Milling Arbor
- Horizontal Arbor (25.4mm)
- Chip Pan Tray
- 200mm vice
- Machine Lamp
- Mill Chuck ISO-40
- Coolant System

### OPTIONAL ACCESSORIES

- Boring Head
- Rotary Table Horizontal & Vertical (With Indexing Device)
- Angle Plate
- 3 Axis DRO for X,Y,Z Axis



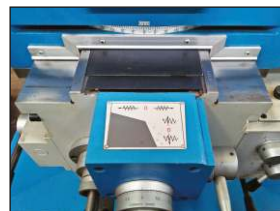
Auto Feed Gear Box



Horizontal Speed Gear Box



Control Panel with DRO



Box Guide Way & Swivel Table



Lubrication Pump

Specifications are subject to changed without prior notice.

# MILLING

## UNIVERSAL SWIVEL HEAD MILLING MACHINE



ESM-1636

MODEL	ESM1126	ESM1636
Table Size	1120x260 mm	1650x360 mm
Number/Width / Distance of T-Slot	3-14-63 mm	3-14-95 mm
Max. Load on Table	200 kg	300 kg
Longitudinal Travel - X Axis	600 mm	1300 mm
Cross Travel - Y Axis	260 mm	300 mm
Vertical Travel - Z Axis	380 mm	400 mm
Dist. From Spindle Axis to Table Surface	220-640 mm	0-400 mm
Dist. From Spindle Axis to Ram Surface	200-700 mm	175-590 mm
Spindle Taper	ISO-40	ISO-50
Number of Spindle Speed	11	12
Range of Spindle Speed - Horizontal	40-1300 rpm	58-1800 rpm
Range of Spindle Speed - Vertical	40-1300 rpm	60-1750 rpm
Max. Swivel Angle of Work Table	-	± 35°
Feed Range - Longitudinal	24-402 mm/min	25-860 mm/min
Feed Range - Cross	24-402 mm/min	25-860 mm/min
Feed Range - Vertical	422 mm/min	8-267 mm/min
Rapid Speed - Longitudinal	402 mm/min	1200 mm/min
Rapid Speed - Cross	402 mm/min	1200 mm/min
Rapid Speed - Vertical	422 mm/min	400 mm/min
Motor Power - Horizontal	2.2 kw	4 kw
Motor Power - Vertical	-	4 kw
Feed Motor Power	0.37 kw	1.1 kw
Dimension (Approx) (LxWxH)	2020x1710x1995mm	2070x2350x2020mm
Weight (Approx)	1550 kg	2580 kg



360 Vertical Swivel Head



Vertical Speed Separate Gear Box



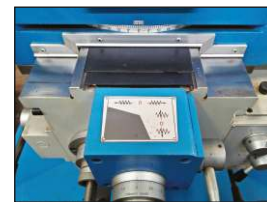
Auto Feed gear Box



Horizontal Speed Gear Box



Control Panel with DRO



Box Guide way & Swivel Table



Lubrication Pump



Mill Head Swivel 360 Degree With High Performance

Specifications are subject to changed without prior notice.

# MILLING

## KNEE TYPE MILLING MACHINE



Vertical Model

VKM-1332



Universal Model

UKM-1332

MODEL		VKM-1332	VKM-1740	UKM-1332	UKM-1740
Table Size	mm	1320 x 320	1700 x 400	1320 x 320	1700 x 400
Number/Width/Distance of T-Slot	mm	3-18-70	3-18-90	3-18-70	3-18-400
Max. Load on Table	Kg.	500	800	500	800
Longitudinal Travel - X Axis	mm	700/680	900/880	700/680	900/880
Cross Travel - Y Axis	mm	255/240	315/300	255/240	315/300
Vertical Travel - Z Axis	mm	370/350	385/365	370/350	385/365
Dist. From Spindle Axis to Vertical Guideway	mm	350	450		
Dist. From Spindle Nose to Table Surface	mm	60-430	130-515	30-350	30-410
Spindle Taper		ISO-50	ISO-50	ISO-50	ISO-50
Number of Spindle Speed		18	18	18	18
Range Spindle Speed	rpm	30-1500	30-1500	30-1500	30-1500
Spindle Quill Travel	mm	70	85		
Max. Swivel Angle of Milling Head		±45°	±45°	+45°	±45°
Feed Range - Longitudinal	mm/min.	23.5-1180	23.5-1180	23.5-1180	23.5-1180
Feed Range - Cross	mm/min.	15-786	23.5-1180	23.5-1180	23.5-1180
Feed Range - vertical	mm/min.	8-394	8-394	8-394	8-394
Rapid Speed - Longitudinal	mm/min.	2300	2300	2300	2300
Rapid Speed - Cross	mm/min.	1533	2300	2300	2300
Rapid Speed - vertical	mm/min.	770	770	770	770
Motor Power	Kw	7.5	11	7.5	11
Feed Motor Power for X & Y Axis	Kw	1.5	3	1.5	3
Dimension (Approx.) (L x W x H)	mm	2294 x 1770 x 1980	2560 x 2130 x 2298	2294 x 1770 x 1665	2560 x 2130 x 1800
Weight (Approx.)	Kg.	2800	4250	2650	3850

### STANDARD ACCESSORIES

- Vertical ISO-50
- Draw Bar
- Cutter Arbor
- Mill Chuck
- Tapper Sleeve
- Oil Gun
- Foundation Bolt
- Spanner Set

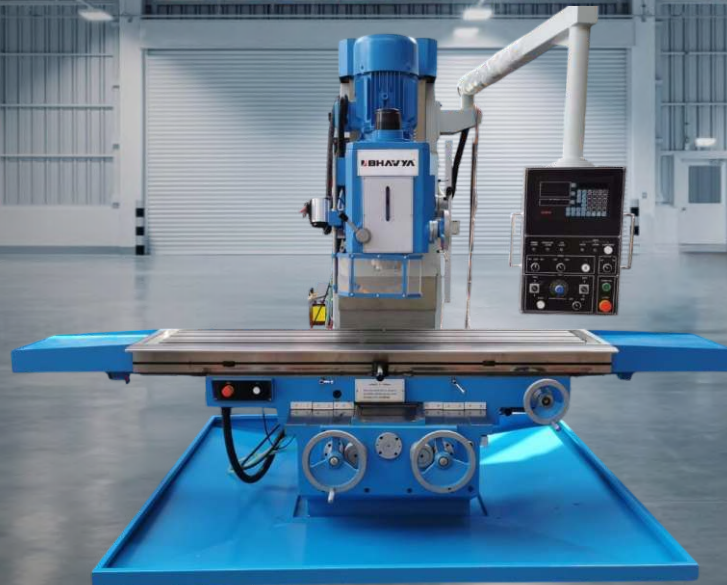
### OPTIONAL ACCESSORIES

- Boring Head
- Rotary Table Horizontal & Vertical (With Indexing Device)
- Angle Plate
- DRO for X,Y,X Axis

Specifications are subject to changed without prior notice.

# MILLING

## BED TYPE MILLING MACHINE



EBM-2150

MODEL	EBM-1530	EBM-2150	EBM-2040
Table Size	1525x320mm	2100x500mm	2000x400mm
Number/Width/Distance of T-Slot	3-14-80mm	4-20-100mm	3-18-100mm
Max. Load on Table	500kgs	2000kgs	2000kgs
Longitudinal Travel - X Axis	1050mm	1500mm(Manual)	1500mm
Cross Travel - Y Axis	470mm	670mm	500mm
Vertical Travel of Head	500mm	670mm	650mm
Dist. From spindle nose to table surface	70-570mm	0-670mm	100-650mm
Dist. From Spindle axis to Column surface	450mm	610mm	600mm
Spindle Taper	ISO-50	ISO-50	ISO-50
No. Of Spindle Speeds	10	12	12
Range Spindle Speed	70-3620rpm	35-1345rpm	66-1440rpm
Spindle Quail Travel	127mm	-	100mm
Max. Swivel Angle of Milling Head	-	+360°	+45°
Feed Range - X Axis	20-1200mm/min	20-1800mm/min	20-2000mm/min
Feed Range - Y Axis	Manual	20-1800mm/min	20-2000mm/min
Feed Range - Z Axis	1200mm/min	10-900mm/min	-
Rapid Speed - X Axis	1200mm/min	3500mm/min	3500mm/min
Rapid Speed - Y Axis	Manual	3500mm/min	3s500mm/min
Rapid Speed - Z Axis	1200mm/min	1750mm/min	-
Motor Power	3.7kW	7.5kW	6.5kW
Feed Motor of X & Y Axis	0.4kW	2.0kW	2.8kW
Dimensions (L x W X H)	2565x2045x2290mm	3300x2380x2750mm	3000x2285x2340mm
Weight (Approx)	2300kgs	7300kgs	5000kg

Specifications are subject to changed without prior notice.

# MILLING

## RAM MILLING MACHINE



### PRODUCT OVERVIEW

- It can mill any angle surface through front half-sphere by swivelling milling head Upper.
- Table 3 axes with ball screws, high precision  
Table feeding with 3 separate servo motors, variable speeds, not interfere each other, high reliability, easy to operate.
- Mechanical change speeds in headstock. powerful milling
- Table with an extra supporting column, big load, high accuracy



It Can Mill Any Angle Surface Through Front Half-sphere By Swivelling Milling Head



XYZ Central Lubrication for XYZ axis



Machine Could be Optional with CNC and PLC



3 AXIS DRO

Specifications are subject to changed without prior notice.

# MILLING

## RAM MILLING MACHINE

SPECIFICATION	UNIT	ERM-1246
Table size	mm	460x1235
T-slots(NO./width/pitch)	mm	5/18/80
Table travel (X/Y/Z)	mm	900/650/450
Swivel angle of milling head	-	360°
Spindle taper	-	ISO40
Spindle speed range	r.p.m	(27) 30-2050
Table feed(X&Y/Z)	mm/min	10-1000/6-640
Table rapid speed	-	2200/2200/1100
Distance between spindle nose and table surface	mm	58-508
Distance from spindle center line to column	mm	20-670
Main motor power	Kw	5.5
Feed motor	Kw	X/Y: 18NM:Z:27NM
Max load	Kg	800
Overall size	mm	2570x2035x1990
weight (Approx)	kg	3600

SPECIFICATION	UNIT	ERM-1650	ERM-2050
Table size	mm	500x1600	500x2000
T-slots(NO./width/pitch)	mm	5/18/80	5/18/80
Table travel (X/Y/Z)	mm	1200/700/500	1400/700/500
Swivel angle of milling head	-	360°	360°
Spindle taper	-	ISO50	ISO50
Spindle speed range	r.p.m	(27) 30-2050	(27) 30-2050
Table feed(X&Y/Z)	mm/min	10-1000/5-500	10-1000/5-500
Table rapid speed	-	2200/2200/1100	2200/2200/1100
Distance between spindle nose and table surface	mm	50-550	50-550
Distance from spindle center line to column	mm	45-745	45-745
Main motor power	Kw	7.5	7.5
Feed motor	Kw	X/Y: 18NM:Z:27NM	X/Y: 18NM:Z:27NM
Max load	Kg	1800	1800
Overall size	mm	2625x2460x2080	2625x2860x2080
weight (Approx)	kg	4200	4500

Specifications are subject to changed without prior notice.

# MILLING

## UNIVERSAL MILLING MACHINE



Vertical Model



Universal Model

MODEL	SM-0	SM-1	SM-1H	SM-2	SM-2H
Surface of Table (MM)	800 x175	900x200	1050 x 250	1200x275	1300x300
No. of T-Slots	3	3	3	3	3
Size of T-Slots	½"	½"	½"	½"	½"
Swivel either Side of Table	45	45	45	45	45
Cross Traverse (MM)	150	150	175	200	250
Vertical Traverse (MM)	400	400	450	500	625
Longitudinal Traverse (MM)	475	475	525	625	675
Arbour Diameter (MM)	25.4	25.4	25.4	25.4	25.4
Taper of Spindle	ISO 40	ISO 40	ISO 40	ISO 40	ISO 40
No. of Spindle Speed	6	6	6	9	9
Range of Spindle Speed (RPM)	40-700	40-700	40-700	40-700	40-700
Spindle Diameter (MM)	50	70	80	80	90
No of Feed in Longitudinal Table Long.	2	2	2	3	3
Main Motor Power (HP)	1	1.5	2	2	2
Weight (Kgs.) (Approx)	450	700	900	1300	1900

Machine is Suitable for Mass Production Purpose.

Auto Feed is provided in both direction for Longitudinal movement of table, Vertical & Cross Movement are hand operated.



Easy Speed Changing



Table Feed Gear Box



Table Degree Arrangement

**Note : To See Pictures of Optional Accessories Please refer to the Page No. 74**

Specifications are subject to changed without prior notice.

# SHAPING

## SHAPING MACHINE



MODEL	HS-12	HS-18	HS-24	HS-30	HS-36	HS-42
CAPACITY	12"	18"	24"	30"	36"	42"
Length of Ram Stroke	305mm	457mm	610mm	762mm	915mm	1070mm
Length of Ram	660mm	960	1232	1410	1651	mm
Length of Width Ram Bearing	520x203mm	700x270mm	867x300mm	1020x330mm	1130x330mm	1600x330mm
Max. & Min. Distance from Table of Ram	257-40mm	360-75mm	450-76mm	510-75mm	565-102mm	600-102mm
Working Surface of Table	305x203mm	457x305mm	610x370mm	762x390mm	915x457mm	1078x533mm
Max. Table Travel Horizontal	330mm	488mm	635mm	787mm	940mm	1075mm
Max. Table Travel-Vertical	140mm	330mm	380mm	450mm	525mm	585mm
Angular Movement of Table on Either Slides	60 L 60 R	60 L 60 R	60 160 R	60 I 60 R	60 L 60 R	60 L 60 R
Max Vertical Travel of Tool Slide	140mm	152mm	190mm	203mm	255mm	300mm
Maximum Swivel of Tool Head	60 L 60 R	60 L 60 R	60 I 60 R	60 L 60 R	60 L 60 R	60 L 60 R
Dia of Clutch Pulley	235mm	311mm	311mm	311mm	380mm	380mm
Range of Ram Speeds	4	4	4	4	4	4
Stroke Per Minute	22,36,52,78	16,32,64,96	14,28,42,62	8,16,32,48	10,20,30,50	8,16,32,48
Dia of Motor Pulley	51mm	70mm	70mm	76mm	88mm	88mm
Range of Table Feed Per Stroke of Ram	0.22	0.22	0.229	0.229	0-22 to 0-88	0-22 to 0-88
Range of Tool Head Feed	Hand Feed	Hand Feed	Hand Feed	Hand Feed	Hand Feed	Hand Feed
Automatic Tool Head Feed & Tool Lifting	on order	on order	on order	on order	on order	on order
Power Supply	1HP	2HP	3HP	5HP	7.5HP	10HP
Main Switch Starter (Push Button Type)	3.5AMP	3.5AMP	5AMP	5AMP	5AMP	5AMP
Approx Weight	650Kgs.	1200Kgs.	1850Kgs.	2300Kgs.	3500Kgs.	4000Kgs.

- Naturally Seasoned Casting
- Heavily cross ribbed, Robust and sturdy construction ensures free working.
- Specially designed for increased-production, precision Performance and Deep Cut.
- Fully Hand Scrapped
- Quick Return Motion
- Selected special alloy steel used for screws and other steel parts.

Specifications are subject to changed without prior notice.

# SLOTTING

## HEAVY DUTY SLOTTING MACHINE



HEAVY DUTY



EXTRA HEAVY DUTY

### HEAVY DUTY

MODEL	BHS-10	BHS-10-13	BHS-12-14	BHS-14-16	BHS-16-18
Stroke	10"	10"-13"	12"-14"	14"-16"	16"-18"
Rotary Table	15"	15"	18"	20"	20"
Longitudinal Movement	12"	12"	13"	14"	16"
Cross Movement	9"	10"	11"	12"	13"
Cutting Speed of Ram	2 NO.	2 NO.	2 NO.	2 NO.	2 NO.
Ram Adjustment	11"	12"	15"	15"	16"
Throat Depth-Height	17"	18"	20"	20"	21"
Distance from Tool to Main Column	14"	15"	16"	18"	19"
Motor Power Required	2 H.P	2 H.P	3 H.P	3 H.P	3 H.P

### EXTRA HEAVY DUTY

MODEL	BHS-18-20	BHS-20-22	BHS-22-24	BHS-24-26	BHS-30-32
Stroke	18"-20"	20"-22"	22"-24"	24"-26"	30"-32"
Rotary Table	22"	22"	24"	24"	30"
Longitudinal Movement	18"	19"	20"	20"	22"
Cross Movement	14"	15"	16"	17"	18"
Cutting Speed of Ram	3 NO.	3 NO.	3 NO.	3 NO.	4 NO.
Ram Adjustment	18"	19"	19"	20"	22"
Throat Depth-Height	21"	21"	22"	22"	24"
Distance from Tool to Main Column	20"	21"	22"	24"	28"
Motor Power Required	5 H.P	5 H.P	7.5 H.P	7.5 H.P	10 H.P

Specifications are subject to changed without prior notice.

# SLOTING & BOLT THREADING

## SLOTING MACHINE

## BOLT THREADING MACHINE



Ideal for Educational Institute



## SLOTING MACHINE

MODEL	BS-150	BS-250	BS-300
ADJUSTABLE Stroke (mm)	10 to 150	10 to 250	10 to 300
Longitudinal Movement (mm)	200	230	300
Cross Movement (mm)	110	110	110
Speed adjustment (Speed)	3	3	3
Ram Adjustment (mm)	150	250	300
Motor (HP)	1	1.5	1.5
Column to RAM Dist. (mm)	210	330	495
Table to RAM Dist. (mm)	310	410	430
Table size (mm)	280x335	280x335	360x305
Machine Dimension	1050x550x1175	1150x600x1375	1250x700x1500
Machine weight (kg) (Approx)	375	450	550

### STANDARD FEATURES

- Rigid Construction hence smooth and Vibration free operation.
- Fine grained castings and duly Seasoned.
- All gears are Machine cut and Properly fitted.

### EXTRA ACCESSORIES

- Rotary Table
- Electric Motor
- True Chuck
- Switch
- V-belt



Precision True Chuck



Rotary Table



Boring Bar

## BOLT THREADING MACHINE

MODEL	B-40	B-65
Capacity	3/8" to 1.1/2"	1/2" to 2. 1/2"
Length of Bed	52"	72"
Width of Bed	12.1/2"	14.1/2"
Height of Bed	12.1/2"	14.1/2"
Length of Pedestal Box	52"	22" x 22.20" x 16"
Width of Pedestal Box	19"	21"
Height of Pedestal Box	20"	-
Length of Slide	18"	20"
Width of Slide	12"	14.1/2"
Height of Slide	3"	4"
Length of Head	15.1/2"	17"
Width of Head	12"	23"
Height of Head	12"	14.1/2"
Power HP/RPM	3/960	5/960

### SPECIAL FEATURES

- The spindle Bore 40mm Fitted with Taper Bearings
- The Machine Has Two Speeds 60 & 90 RPM
- All Gears are Tempered (Oil Seats 42-12-65)
- Motor Pulley 12" Diameter, V-Belt Drive Vice Fitted with Jaw
- All the Gears are made of cast hardened steel.
- Noiseless Operation

Specifications are subject to changed without prior notice.

# ROLL THREADING

## HYDRAULIC THREAD & FORM ROLLING MACHINE

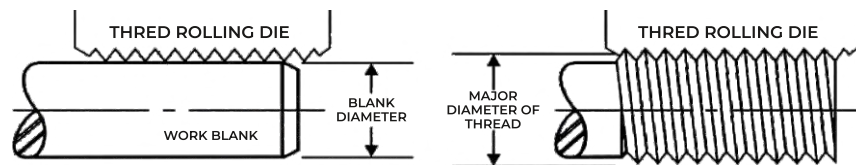


MODEL	TR-20	TR-45	TR-70	TR-80	TR-100
Max. Pitch can be Rolled (in mm)	2	4	6	8	10
Min/Max. Dia can be Rolled in Feed (in mm)	2 to 20	2 to 45	3 to 70	10 to 80	10 to 100
Max. Dia can be Through Feed	20	40	60	65	90
Max. Rolling Length In Feed (in mm)	80	100	150	210	210
Max. Rolling Length Through Feed	Indefinite	Indefinite	Indefinite	Indefinite	Indefinite
Outer Dia of Thread Rolls (in mm)	130	170	210	210	210
Max. Die Width (in mm)	80	120	170	210	210
Spindle Dia (in mm)	40	54	69.85	69.85	69.85
Max. Rolling Force	10 Tons	15 Tons	25 Tons	30 Tons	40 Tons
Power for Roll Spindles	3 HP	5 HP	12 HP	15 HP	20 HP
Hydraulic motor	1 HP	3 HP	5 HP	7.5 HP	10 HP
Power for Coolant Pump	0.5 HP	0.5 HP	0.5 HP	0.25 HP	0.5 HP
GROSS WEIGHT (Approx)	1300 KG	2000 KG	3000 KG	4500 KG	6000 KG

### SALIENT FEATURES

- Compact Design
- Fabricated steel frame
- Versatile for all type of works
- Manual & Automatic cycles
- Range of cycle times
- Extended universal joint provides smooth operation for big angle of work piece
- Over sized coolant tank for superior cooling effects
- Low pressure hydraulic power pack to ensure to low heat & minimum maintenance
- CT" type and accurately ground slide assures that jumping and vibration will not happen during rolling
- Centralized lubrication of all important moving parts.

Thread rolling is a chipless cold forming process. A plain cylindrical blank, with a diameter part way between the major and minor diameters of the finished thread, is rotated and squeezed between cylindrical type hardened steel dies whose working surfaces are the reverse of the thread form to be produced. The threads of the die penetrate the surface of the blank as it rolls between them, displacing material to form the roots of the threads, and forcing the displaced material readily outward to form the crests. Unlike other threading process, no material is wasted.



Most threads are rolled by the in-feed method in which the entire thread length is formed simultaneously without axial movement of the part. Threads that is too long to be produced by the in-feed method can, however, be rolled by a thru feed method on these type of Machines.

Specifications are subject to changed without prior notice.

# GRINDER

## UNIVERSAL TOOL & CUTTER GRINDING MACHINE



MODEL		250 TM	250 T	280 T
Max. swing on std. center	mm	250	250	280
Swing with raising blocks	mm	350	350	380
Length between work head				
And RH tail stock	mm	330	520	610
Admit between centers	mm	440	670	760
Max. height center of wheel				
Above table	mm	300	300	380
Longitudinal traverse	mm	400	480	510
Cross traverse	mm	200	250	250
Swivel either side of centre (End scale)	deg.	-	9	9
Swivel LH/RH of column (Center scale)	deg.	45°/45°	45°/45°	45°/45°
Size of table	mm	750x115	920x140	1010x140
Vertical adjustment of wheel head	mm	210	210	290
Wheel head Swivel	deg.	3600	3600	3600
Tilting in either direction	deg.	180 ±	180 ±	180 ±
Spindle speed	rpm	3800/5600	3800/5600	3800/5600
Motor power	KW/HP	0.75/1	0.75/1	0.75/1
Net weight of the machine	kg.	750	1150	1250
Gross weight to the machine	kg.	900	1350	1450
Dimension of machine (LxWxH)	mm	1075x1100x1400	1325x1170x1460	1325x1170x1460

**Functional Versatility :** " The grinding machine basically designed for sharpening and recondition wide range of high speed and carbide tipped tools as side & face milling cutters, cylindrical cutters, angle cutters, convex & concave cutters, gear hobs, end mills shell mills,reamers, drills, taps etc."

**Construction :** " wheel Head: it is of rigid construction and holds the spindle assembly. it can be fitted horizontally and swiveled vertically full 360 degree, for quick setting of compound angles. Wheel head is mounted on the rigid Column, which can be raised/lowered up/down. Wheel head also can be adjusted 150mm on cross direction."

**Wheel Head Spindle :** " Alloy steel hardened and ground spindle is mouted on precision preloaded radial ball bearings, which are greased packed. The grinding wheels can be mount ed on both sides of the spindle and the wheels mount design is such that the spindle can be reversed."

**Work Table :** This is mounted on the carriage and can be swiveled 45 degrees on either side of the column. This table has a smoother and rapid movement longitudinally on the carriage through a roller chain guided and supported in jibs. Slow movement is through a reduction gearbox. Change over from rapid to slow movement is through a push/pull knob. The precise movement on roller chain enables smooth, sensitive and accurate longitudinal movement even with heavy jobs. The adjustable reversing dogs on the work table are spring loaded for shockproof reversal of table."

**Auxiliary Table :** This table is mounted on work table and in both horizontal and vertical planes. It can hold job up to 600 mm with the aid of raising blocks. It's spindle nose has ISO 50/MT 5 tapers and the spindle is mounted to taper roller bearings.

### SPECIAL ACCESSORIES

- Cylindrical external grinding attachment
- Cylindrical internal grinding attachment
- (A) Swivel vice (B) 2-way & 3-way swivel vice
- Face, milling cutter grinding attachment
- Radius grinding attachments
- Long reamer grinding attachment
- Gear milling cutter grinding attachment
- Angular wheel dressing attachment
- Radius dressing attachment
- Hob grinding attachment
- Dust exhausting unit
- Static wheel balancing unit
- Collapsible bellows for column

### STANDARD EQUIPMENT

- Universal cutter head with Mt-3 adopter sleeves
- Right hand, quick acting spring loaded center tail stock
- Left hand center tail stock
- Diamond holder (excluding)
- Plain tooth rest and extension with one blade
- Center height gauge
- Universal tooth rest and extension and micro adjustment to blade
- Center with morse taper no. 3
- Wheel guards with guard holder-3 nos
- Grounding wheels-3 nos
- All necessary spanners and wrenches Suitable electricals maintenance and instructions manual

Specifications are subject to changed without prior notice.

# GRINDER

## CYLINDRICAL GRINDING MACHINE



MECHANICAL & HYDRAULIC

MODEL	BMTU/300/100	BMTU/500/150	BMTU/600/150	BMTU/800/150	BMTU/1000/150	BMTU/1250/150	BMTU/1500/150
Center Height	100mm	150mm	150mm	150mm	150mm	150mm	150mm
Distance between Centers	300mm	500mm	600mm	800mm	1000mm	1250mm	1500mm
Table Swingle Degree	+ 10 Deg./4 Deg.	+ 7 Deg./-3 Deg.	+ 7 Deg./-5 Deg.	+ 7 Deg./-4 Deg.	+ 6 Deg./-4 Deg.	+ 5 Deg./-3 Deg.	+ 5 Deg./-3 Deg.
Table Speed Infinitely Variable	0.1 - 2.5m/min.	0.1 - 2.5m/min.	0.1 - 2.5m/min.	0.1 - 2.5m/min.	0.1 - 2.5m/min.	0.1 - 2.5m/min.	0.1 - 2.5m/min.
Hydraulic Power Pack Motor	0.5HP-1440rpm	1HP-1440rpm	1HP-1440rpm	1HP-1440rpm	1HP-1440rpm	1HP-1440rpm	1HP-1440rpm
Grinding Wheel (DxWxB)	350x25x76.2mm	350x40x127mm	350x40x127mm	350x40x127mm	350x40x127mm	350x40x127mm	350x40x127mm
Grinding Wheel Speed	1900rpm	1700rpm	1700rpm	1700rpm	1700rpm	1700rpm	1700rpm
In feed of Hand Wheel	0.01mm/Div.	0.01mm/Div.	0.01mm/Div.	0.01mm/Div.	0.01mm/Div.	0.01mm/Div.	0.01mm/Div.
Grinding Head Motor	2HP-1440rpm	3HP-1440rpm	3HP-1440rpm	3HP-1440rpm	3HP-1440rpm	3HP-1440rpm	3HP-1440rpm
Rapid Approach	40mm	40mm	40mm	40mm	40mm	40mm	40mm
Range of work Head Speed	90-180-360rpm	65-140-205-300rpm	65-140-205-300rpm	65-140-205-300rpm	65-140-205-300rpm	65-140-205-300rpm	65-140-205-300rpm
Work Head Spindle Taper	MT-3	MT-4	MT-4	MT-4	MT-4	MT-4	MT-4
Work Head Motor Power	0.5HP-960rpm	0.5HP-960rpm	0.5HP-960rpm	0.5HP-960rpm	0.5HP-960rpm	0.5HP-960rpm	0.5HP-960rpm
Tail Stock Spindle Taper	MT-3	MT-4	MT-4	MT-4	MT-4	MT-4	MT-4
Tail Stock Quill Stroke	25mm	40mm	40mm	40mm	40mm	40mm	40mm
Coolant Tank	35 Liter	50 Liter	50 Liter	50 Liter	50 Liter	50 Liter	50 Liter
Coolant Pump Motor	0.15HP	0.15HP	0.15HP	0.15HP	0.15HP	0.15HP	0.15HP
Approx. Machine weight	900kg	1700kg	2100kg	2500kg	3000kg	3500kg	4000kg



Specifications are subject to changed without prior notice.

# GRINDER

## CENTERLESS GRINDER



MODEL	SL-75	SL-100	SL-150
Grinding Range Diameter	2-75mm	2-100mm	5-150mm
Grinding Wheel Size (ODxWxD)	350x100x127mm	350x150x127mm	500x200x304.8mm
Regulating Wheel Size (ODxWxD)	225x100x76.2mm	225x150x76.2mm	300x200x127mm
Max. Length in Feed Grinding	100mm	150mm	200mm
Max. length in Through Feed Grinding	300mm	250mm	200mm
Grinding Wheel Speed	1800rpm	1800rpm	1200rpm
Regulating Wheel Speed	20-40-60- R.P.M	20-40-60- R.P.M	Infinitely Variable
Grinding Wheel motor	5 HP	7.5 HP	20 HP
Regulating Wheel motor	1 HP	1 HP	3 HP
Coolant Pump Motor	0.15 HP	0.15 HP	0.50 HP
Hydraulic Power Pack (Dressing)	0.5 HP	0.5 HP	0.5 HP
Regulating Wheel Angle Titling	5 degree	5 degree	5 degree
Upper Slide Swiveling	3 degree	3 degree	3 degree
Approx. Weight	1800kg	2000kg	4500kg
Approx. dimensions (LxWxH) (Approx)	1850x1100x1600mm	1850x1100x1600mm	2500x1700x1650mm

### STANDARD ACCESSORIES

- Electric Control Panel.
- Coolant tank with pump.
- Grinding & Control wheel fitted with flange.
- Standard work rest blade.
- Diamond dressing holder with diamond.
- Grinding wheel flange puller.
- Wheel flange nut's spanner.

**DESIGN:** designed to grind cylindrical parts at high production rates and close tolerances straight shoulders & taper parts can be ground with equal ease suitable for hardened and unhardened steel, Brass, copper, aluminium, or any other materials.

**BED:** A single block of cast iron with a proper brinell hardness greater material thickness and heavier rib design provide maximum rigidity for greater strength providing for vibration absorption even while the machine is utilized to its fullest extent.

**GRINDING WHEEL HEAD:** The grinding wheel spindle is made of hardened and ground nickle chrome alloy steel. It runs in oil chamber on Taper roller bearing or on bush as required. They are sturdy and strong enough to permit heavy duty grinding at high speeds and assure superior surface finish & accuracy.-



Work Piece Samples



Oil circulating Stand



Wheel Balancing Stand



Profile Truing Device



Grinding Process

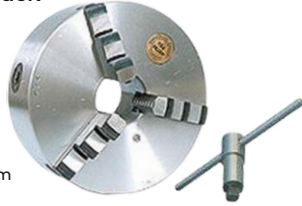
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# ACCESSORIES

## MACHINE TOOLS ACCESSORIES

### For Lathe Machine

True Chuck



Size : 75mm to 600mm

Independent Chuck



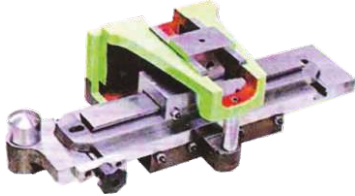
Size : 150mm to 1800mm

Key Way Attachment

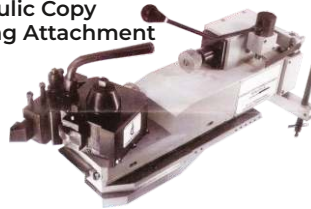


Size : 75mm & 125mm

Tapper Turning Attachment



Hydraulic Copy Turning Attachment



Revolving Centre



Pipe Centre



Coolant Pump with Tank & Assembly

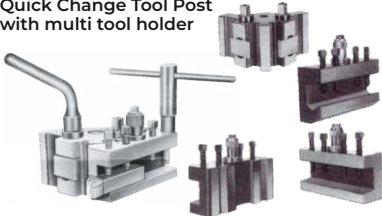


Tool Post Grinder



Size : 150mm & 200mm

Quick Change Tool Post with multi tool holder



Anti Vibration Mounts



Machine Lamp



Chuck Plate



Face Plate



Keyway Attachment (Motorised)



Steady Rest



Follow Rest



Lathe Tools



Specifications are subject to changed without prior notice.

# ACCESSORIES

## MACHINE TOOLS ACCESSORIES

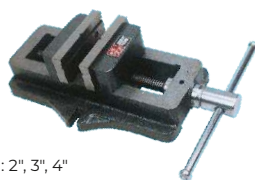
### For Drill Machine

Drill Vice (Heavy Duty)



Size : 3", 4", 5", 6", 8", 12"

Self Centering Vice



Size : 2", 3", 4"

Reversible Tapping Attachment



Size: 1.4- 7mm  
8-12mm  
8-20mm  
14-30mm

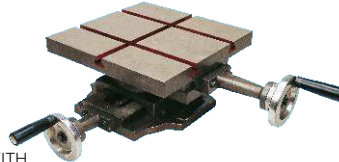
Tapping Control Panel Board



Limit Switches

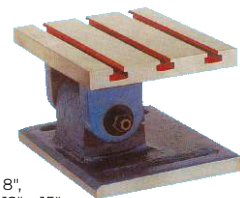
Foot Switch

Compound Sliding Table



WITH  
CALIBRATED WHEEL & SWIVELING TABLE

Swivel Angle Table



Size : 5" x 6", 6" x 8",  
8" x 10", 10" x 12", 12" x 15"

Collet Adaptor

Collet



Drill Sleeve

Drill Arbour

Drill Chuck



Quick Change Chuck

Chuck Collet



Size : MT 2 to MT 5

Size : CO 21 to CO 55

### General Accessories

Light Duty Drill



6mm 10mm

Heavy Duty Drill



13mm, 20mm & 25mm

Circular Saw



Marble Cutter

Straight Grinder



100mm & 150mm

Angle Grinder



100mm, 180mm & 230mm

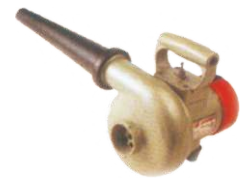
Router



Cut Off Machine



Potable Blower



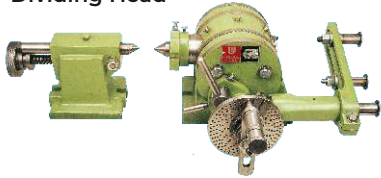
Specifications are subject to changed without prior notice.

# ACCESSORIES

## MACHINE TOOLS ACCESSORIES

### For Milling Machine

Dividing Head



Size : 4.1/2", 5.1/2", 6.1/2"

Rotary Milling Table Horizontal



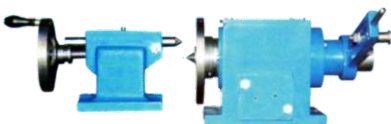
Size : 6" to 20"

Rotary Milling Table Horizontal & Vertical



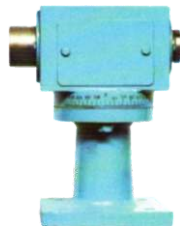
Size : 6" to 20"

Hobbing Attachment



Size : 4.1/2", 5.1/2", 6.1/2"

Vertical & Slotting Attachment



Rack Cutting Attachment



Milling Machine Vice Fixed Base



Size : 4", 5", 6", 8", 10", 12"

Milling Machine Swivel Vice



Size : 4", 5", 6", 8", 10", 12"

Milling Vice (2 piece Adjustable)



Size : 6", 8"

Swivel Angle Vice



3 Way Universal Tilt

Size : 4" & 6"

Universal Machine Vice



Size : 3", 4", 6"

Titling Swivelling Vice



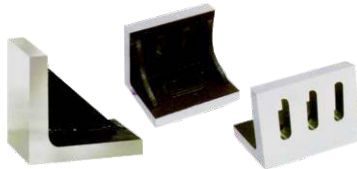
Size : 3", 4", 6", 8"

Rotary Head Vice (Swivel Base)



Size : 100mm, 120mm, 145mm

Cast Iron Angle Plate



Size : 25x25x25mm to 300x300x300mm

Clamping Kit (With Metallic Box)



Size : 14-12mm, 16-12mm, 18-12mm, 18-16mm

Collect Adaptor



Size : ISO 30, ISO 40, ISO 50

Collet



Stub Milling Arbours



Size : ISO 30, ISO 40, ISO 50

Collet & Adaptor Set (ISO - 40 - E)


















Size : (5 to 25mm)  
Set of 12 Collets  
One Adaptor, One Spanner

Specifications are subject to changed without prior notice.

# ACCESSORIES

## MACHINE TOOLS ACCESSORIES

### General Accessories

<p><b>Bench Grinder</b></p>  <p>Size : 0.25 HP to 5 HP</p>	<p><b>Bench polisher</b></p>  <p>Size : 0.25 HP to 10 HP</p>	<p><b>Grinder Cum Polisher</b></p>  <p>Size : 0.25 to 2 HP</p>	<p><b>Pedestal Grinder</b></p>  <p>Size : 0.5 HP to 5 HP</p>
<p><b>Drill Cum HSS Tool Bit Grinder</b></p>  <p>Cap. Drill 3 to 19mm HSS Tool Bit : 5 to 10mm</p>	<p><b>Electric Motor</b></p> 	<p><b>Bench Mounting Belt Grinder</b></p> 	<p><b>Bench Mounting Belt Grinder</b></p>  <p>1 to 3 HP</p>
<p><b>Flexible Shaft Grinder</b></p>  <p>1 &amp; 2 HP</p>	<p><b>Magnetic Drill Stand</b></p>  <p>Size : 25mm, 32mm</p>	<p><b>Cut Off Machine</b></p>  <p>Size : 10", 12", 14", 16"</p>	<p><b>Hydraulic Test pump</b></p>  <p>Size : 500 Lbs (35 Kg/cm<sup>2</sup>) to 10,000 Lbs (705 Kg/cm<sup>2</sup>)</p>
<p><b>Hand Operated Spur Gear Chain Pulley Block</b></p>  <p>Cap: 1000 Kg to 10000 Kg</p>	<p><b>Electric Operated Spur Gear Chain Pulley Block</b></p>  <p>Cap: 1000 Kg to 10000 Kg</p>	<p><b>Monorail Gear Trolley</b></p>  <p>1000 Kg to 10000 Kg</p>	<p><b>Wire Rope Hoist</b></p> 
<p><b>Cast Iron Blower</b></p>  <p>Size : 0.09 to 1 HP 1Ph / 3 Ph</p>	<p><b>Fabricated Centrifugal Blower</b></p>  <p>Size : 0.25 to 30 HP</p>	<p><b>Oil-burner</b></p>  <p>Model : LAP 00 to 4 Oil Connection : 3/4" to 1.1/4" BSP</p>	<p><b>NU Gear Box</b></p>  <p>Center : 2" to 12"</p>

Specifications are subject to changed without prior notice.

# ACCESSORIES

## MACHINE TOOLS ACCESSORIES

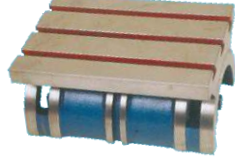
### General Accessories

Mechanic's Bench vice



Size : 3", 4", 5", 6", 8", 10", 12"

Tilting Table



Size : 5" x 7", 7" x 10", 12" x 15"

Self Centering Shaft Vice



Size : 80mm & 100mm

Precision Grinding Vice



Size : 3", 4"

Permanent Magnetic Chucks  
Standard & Close Pole



Cast iron Surface Plate



Size : 400 x 400 to 3000 x 1000mm  
Grade I & II

Granite Surface Plate

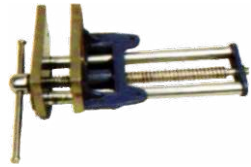


Size : 250 x 250 to 2000 x 1000mm  
Grade : 00, 0, I & II

Magnetic V\_blocks  
Steel V\_Block & Clamps



Wood Working Vice  
(Quick Release)



Size : 6", 7", 8", 9"

Pipe Vice Pillar Type



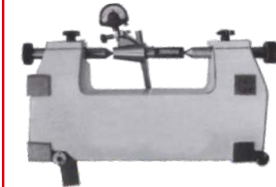
Size : 2", 3", 4", 6"

Pipe Vice Open Type



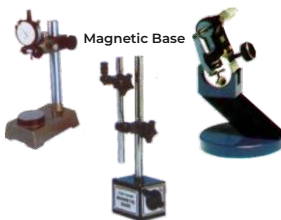
Size : 2", 3", 4", 6", 8", 10"

Universal Bench Centre



Center Height : 100 to 300mm  
Between Center 300 to 2000 mm

Dial Comprator Stand  
Micrometer Stand



Anvil



Size : 500 gm to 150kg.

Sewage Block



Size : 10"x10"x4" to 16"x16"x16"

Stand



Suitable For Anvil & Sewage Block

Vernier Caliper



Least Count 0.02 / 0.001 inch  
Range : 0-300 mm

Dial Vernier Caliper



Least Count 0.02 mm  
Range : 0-600 mm

Inside Micrometer



Least Count 0.01 mm  
Range : 5-1500 mm

Screw Thread Micrometer  
Digimatic Micrometer



Range : 0-50 mm Range : 0-300 mm

Specifications are subject to changed without prior notice.

# ALSO AVAILABLE

## METAL FABRICATION MACHINES - EDITION 1



CNC PRESS BRAKE



NC SHEARING MACHINE



BUSBAR PROCESSING MACHINE



PANEL BENDER MACHINE

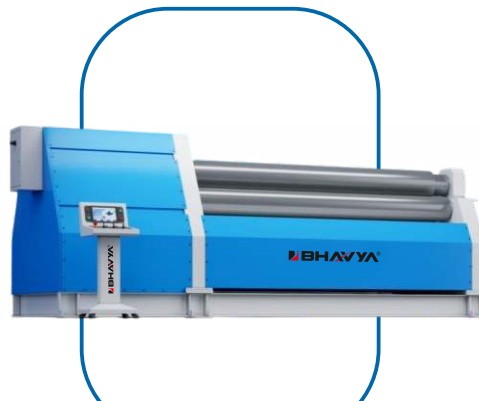
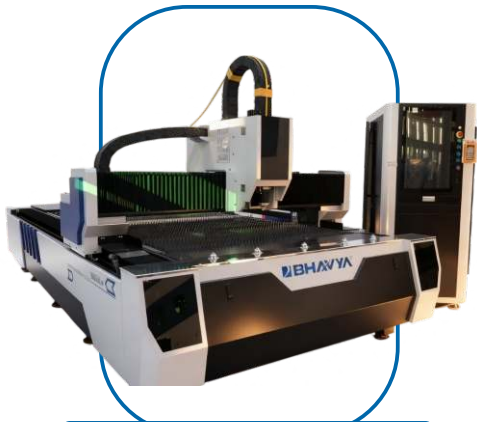


PLATE ROLLING MACHINE



CROSS SHAFT POWER PRESS



LASER CUTTING MACHINE



HYDRAULIC IRON WORKER



HYDRAULIC PIPE BENDING

Specifications are subject to changed without prior notice.

# ALSO AVAILABLE

## TOOLS RESHARPENING MACHINES - EDITION 3



ELECTRIC TAPPING



DRILL BIT RE-SHARPENER



END MILL RE-SHARPENER



UNIVERSAL CUTTER GRINDER



UNIVERSAL CUTTER GRINDER



CNC INSERT GRINDER



CNC TOOL RE-SHARPENER



PORTABLE CHAMFER



COMPLEX CHAMFER

Specifications are subject to changed without prior notice.

# VALUABLE PATRONS



Specifications are subject to changed without prior notice.

# VALUABLE PATRONS



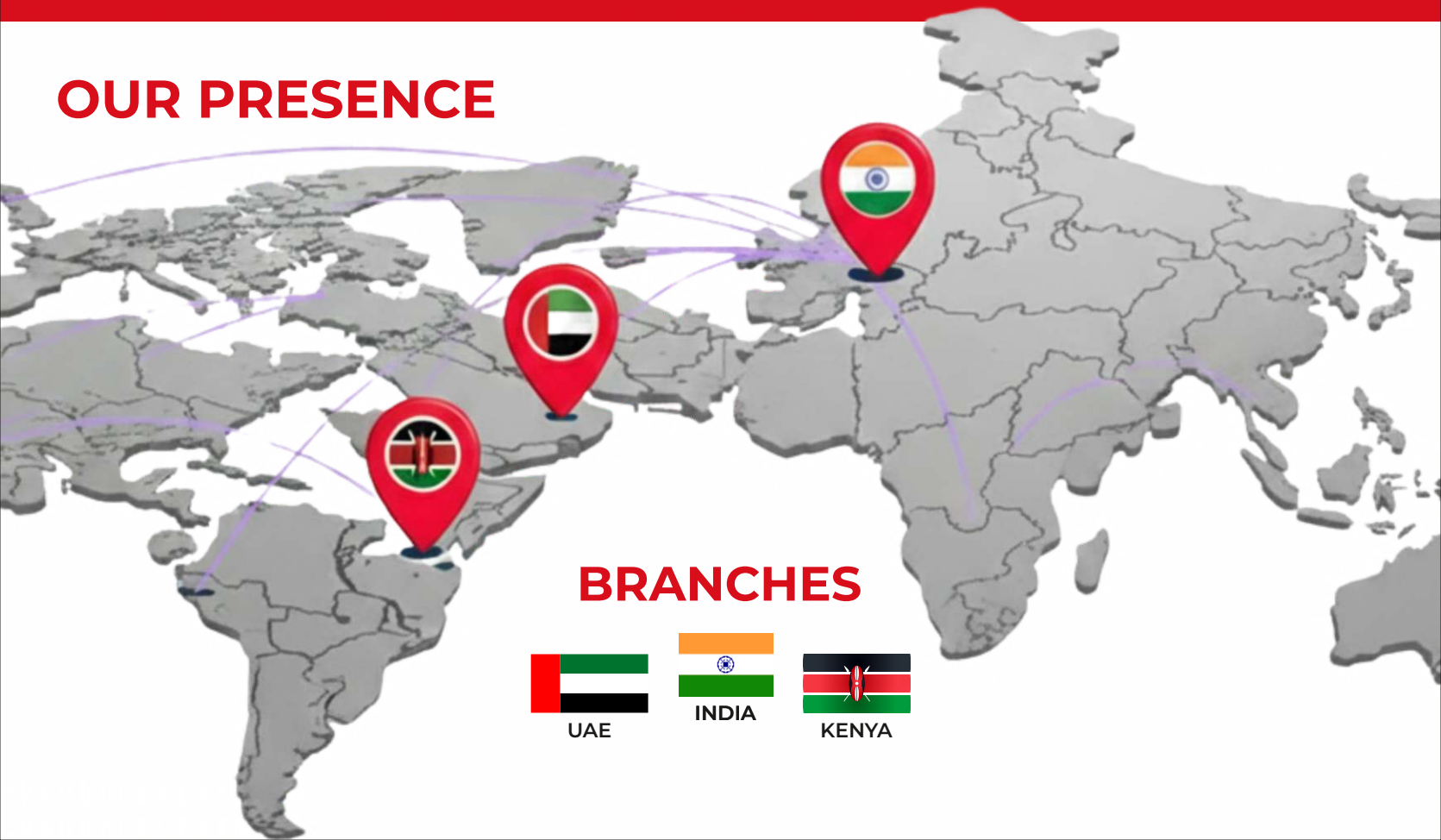
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## CORPORATE OFFICE



## OUR PRESENCE



## BRANCHES



# CATALOGUE 2026

Edition : 2

## Corporate Office

907, 908 & 909, Sankalp Square 3B,  
Sindhu Bhavan Marg, beside Taj Skyline,  
Ahmedabad, Gujarat 380058.

✉ [inquiry@bhavyamachinetools.com](mailto:inquiry@bhavyamachinetools.com),  
[info@bhavyamachinetools.com](mailto:info@bhavyamachinetools.com)

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Sanand, Ahmedabad,  
Gujarat, India - 382213

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+91 98250 09216

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Warehouse no. 8, building 1,  
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