

MILLING TECH

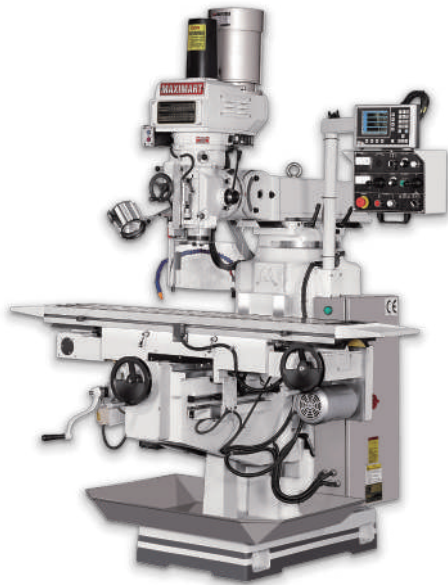
BED MILL . KNEE MILL . UNIVERSAL MILL

Maximart®

ISO 9001 CE / EMC



OVERVIEW



Knee type

P.03

2V . 3V . 4V . 6V

Optimal selection for light-medium parts general machining.

- Versatility, small workpieces, and operations which require frequent adjustments.
- Diverse milling operations recommendation.
- Adjustable spindle head for multi-angle machining.
- Compact design with a smaller foundation space required.
- Cost-effective friendly, fast return on investment.
- 3 different types of speed drive systems upon selection.
VA - Step pulley change speed for easy and economical solution.
VS - Mechanical variable speed for smooth startup.
IV - Inverter-drive variable speed for instant reaction.
- MEEHANITE® machine body with rigid and strong cast iron
- Maximum 1524 x 305 mm (60" x 12") worktable.



Bed type

P.09

MX-B2 . MX-B3 . MX-B5

Optimal selection for medium-heavy parts machining and rough/general cutting of molds.

- Stability and rigidity, best for heavy-duty machining, larger, and high precision workpieces.
- Robust construction minimizes vibration during cutting, excellent for precision machining.
- Heavier and bigger workpieces loading available.
- Well-suited for industrial and mass production tasks.
- Extended service life in demanding environments.
- 3 different types of speed drive systems upon selection.
MX-A - Step pulley change speed for easy and economical solution.
MX-S - Mechanical variable speed for smooth startup.
MX-IV - Inverter-drive variable speed for instant reaction.
- MEEHANITE® machine body with rigid and strong cast iron
- Maximum 1575 x 425 mm (62" x 16.75") worktable.

OVERVIEW



Universal type

P.13

2UM . 3VHS . 6VHA . 6VHS . 6VH

Optimal selection for medium-heavy and multi-angle parts machining and rough/general cutting of molds.

- Capable of horizontal & vertical milling, suitable for a wide range of machining tasks.
- Adaptable to both small-scale and specialized machining.
- Multiple functions machine for varied jobs.
- Suitable for angular / gear / grooves / slots cutting application
- MEEHANITE® machine body with rigid and strong cast iron
- Maximum 1500 x 300 mm (59" x 11.8") worktable.



Universal-Huron type

P.19

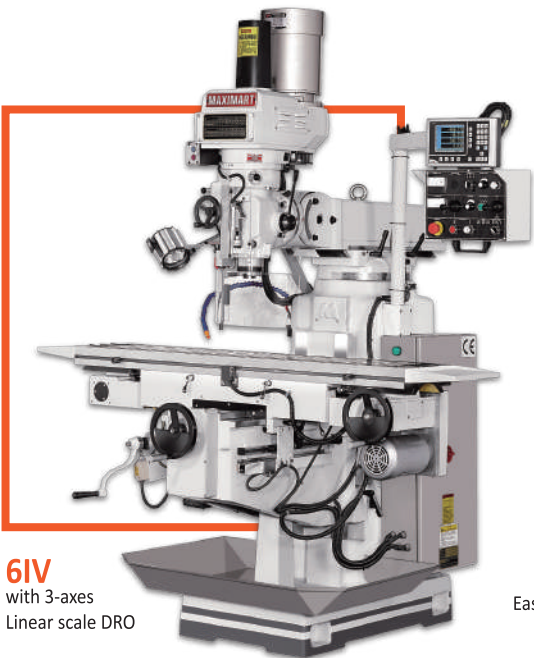
5U . 8U . 8M . 8UM . 8QM

Optimal selection for medium-heavy and multi-angle composite parts machining and rough/general cutting of molds.

- Capable of horizontal & vertical milling, suitable for a wide range of machining tasks.
- Allows the milling head to swivel in multiple planes.
- Adaptable to high-precision machining in multi-angle.
- Suitable for mold-making, die-making, and Multi-Angle machining.
- Rugged construction designed for heavy-duty applications.
- MEEHANITE® machine body with rigid and strong cast iron
- Maximum 1850 x 350 mm (72.8" x 13.7") worktable.

KNEE MILL

FEATURES



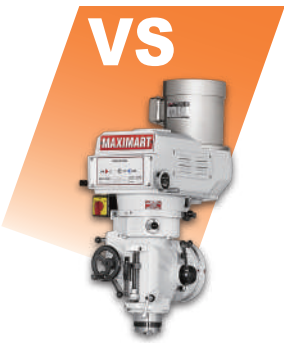
6IV
with 3-axes
Linear scale DRO

MILLING HEAD

3 different types of milling head available on request.



Step Pulley
Easy & Economical solution



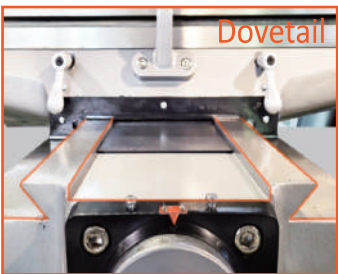
Mechanical Variable
Smooth startup & speed transition
High(H)/Low(L) speed range shift



Inverter drive Variable
Instant reaction of
speed control

SLIDEWAYS

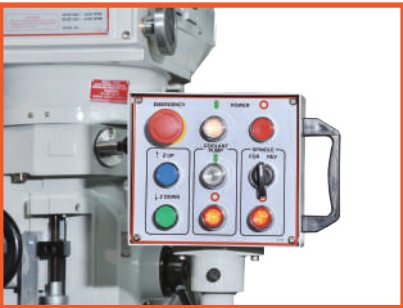
X/Y/Z - axes slideways hardened and ground.
X/Y - axes coated with wear-resistance film.



MODELS	X-axis	Y-axis	Z-axis
2V	Dovetail	Dovetail	Dovetail
3V	Dovetail	Square	Dovetail
4V	Dovetail	Square	Square
6V	Dovetail	Square	Square

CONTROL PANEL

MAXIMART specially design user-friendly control interface.
X/Y/Z/quill-axes digital read out system available (optional).



2V / 3V / 4V CONTROL BOX

- Emergency stop
- Z axis up / down
- Coolant pump on / off
- Spindle forward / reverse



6IV CONTROL BOX

- Standard for 6IV
- Emergency stop
- X / Y / Z - axes movement
- Coolant pump on / off
- Spindle forward / reverse
- Spindle speed control

Automatic Central Lubrication System Delivers lubricant oil to all slideways for smooth travel in the long run.	CP4 Class Precision Spindle CP4 class bearings as well as heavy-duty long-sleeve spacer installment in between bearings assure greater value and stable cutting.	Automatic Power feed (X/Y/Z -axes) Options for 2V.3V.4V Standard for 6IV Improving processing efficiency.	Gear-drive Power Feeding (X/Y/Z -axes) Options for 2V.3V.4V Standard for 6IV 8-step power feed inch and metric conversion	CE Safety Spindle guard (Optional) As soon as spindle cover safety switch is activated, machine power cuts off automatically.
---	--	---	--	---

KNEE MILL

2V
3V



2VA

2VA . 2VS . 2IV

Work Table

1245 mm
49"
×
230 mm
9"

X-axis

MANUAL

970 mm

AUTO

890 mm

Dovetail

Spindle Taper



Y-axis

360 mm

Square

Z-axis

355 mm

Dovetail

Main Motor



3.0 HP

- X/Y -axes leadscrews chromed and hardened
- X/Y -axes coated with "wear-resistance film"

2IV Standard package

- Spindle with electro-magnetic brake
- Electrical cabinet + control panel box
- Coolant system
- Metal coolant / chip tray



3VS

3VA . 3VS . 3IV

Work Table

1372 mm
54"
×
254 mm
10"

X-axis

MANUAL

1005 mm

AUTO

865 mm

Dovetail

Spindle Taper



Y-axis

395 mm

Square

Z-axis

380 mm

Dovetail

Main Motor



5.0 HP

- X/Y -axes leadscrews chromed and hardened
- X/Y -axes coated with "wear-resistance film"

3IV Standard package

- Spindle electro-magnetic brake
- Electrical cabinet + control panel box
- Coolant system
- Metal coolant / chip tray

FEATURES



- "MEEHANITE" cast iron machine body for all models
- Strictly quality control for iron casting production
- Rigid construction reduces deformation and distortion
- Anti-rust, fine-finish, durable machine paint



- Hardened & Ground X/Y/Z - axes slideways
- Chromed X & Y - axes leadscrews, to ensure smooth and steady movement on knee mill

KNEE MILL

4V



4VS

4VA . 4VS . 4IV

Work Table

1372 mm
54"
×
254 mm
10"

X-axis

MANUAL

1050 mm

AUTO

970 mm

Dovetail

Spindle Taper



Y-axis

390 mm

Square

Z-axis

355 mm

Dovetail

Main Motor



5.0 HP

- X / Y / Z -axes leadscrews chromed and hardened
- X / Y -axes coated with "wear-resistance film"

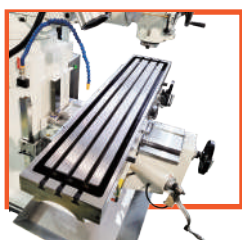
4IV
Standard
package

- Spindle with electro-magnetic brake
- Electrical cabinet + control panel box
- Coolant system
- Metal coolant / chip tray
- Z-axis vertical rapid AC motor

FEATURES



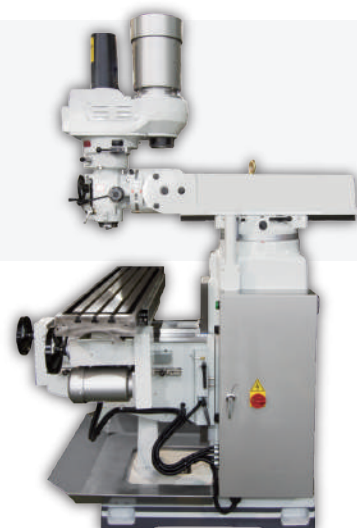
- New type head housing, better cutting performance.
- Precision spindle with high-class bearings, enhance stable cutting.



- Worktable and table T-slots are hardened and precisely ground
- X/Y/Z -axes slideways hardened and ground.
- X/Y -axes coated with wear-resistance film.
- Rigid and durable MEEHANITE machine frame

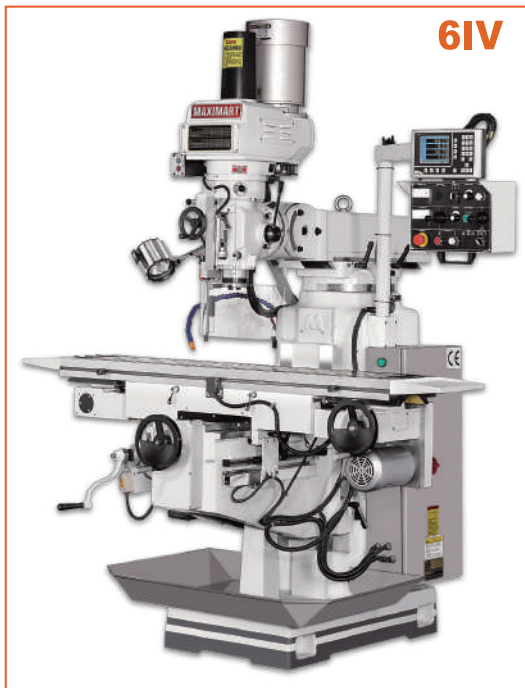


- Electrical cabinet, coolant system, coolant/chip tray.
- CE conformity & CSA electrics approved machine. (optional)



KNEE MILL

6IV



6IV

6IV

Work Table

1524 mm
60"
×
305 mm
12"

X-axis

MANUAL

1050 mm

AUTO

970 mm

Dovetail

Spindle Taper



Y-axis

390 mm

Square

Z-axis

355 mm

Square

Main Motor



5.0 HP

- X/Y -axes leadscrews chromed and hardened
- X/Y -axes coated with "wear-resistance film"

6IV Standard package

- X / Y - axes are driven by inverter motors
- Spindle with electro-magnetic brake
- Electrical cabinet + control panel box
- Coolant system
- Metal coolant / chip tray
- Z -axis vertical rapid AC motor

FEATURES



- Inverter-drive spindle motor + electromagnetic brake, more powerful and safe operation.
- New type head housing, better cutting performance.
- Standard air powered drawbar for better and quick tool change.
- High class spindle bearings + heavy-duty long-sleeve spacer installed in between bearings, enhance stable cutting.



- Extra-large worktable 1524×305 mm (60"× 12").
- Chromed & hardened X/Y/Z -axes leadscrews w/ double nuts.
- X/Y -axes are driven by inverter motors.
- Z -axis (Knee elevating) fitted with vertical rapid AC motor.
- Rigid and durable MEEHANITE machine frame.



- Standard boom type control panel box.
- Complete milling operate package.
- X/Y/Z-axes with D.R.O (digital read out) system available.



- Standard electrical cabinet, coolant system, coolant/chip tray.
- CE conformity & CSA electrics approved machine.
- Standard automatic lubrication unit and work light.

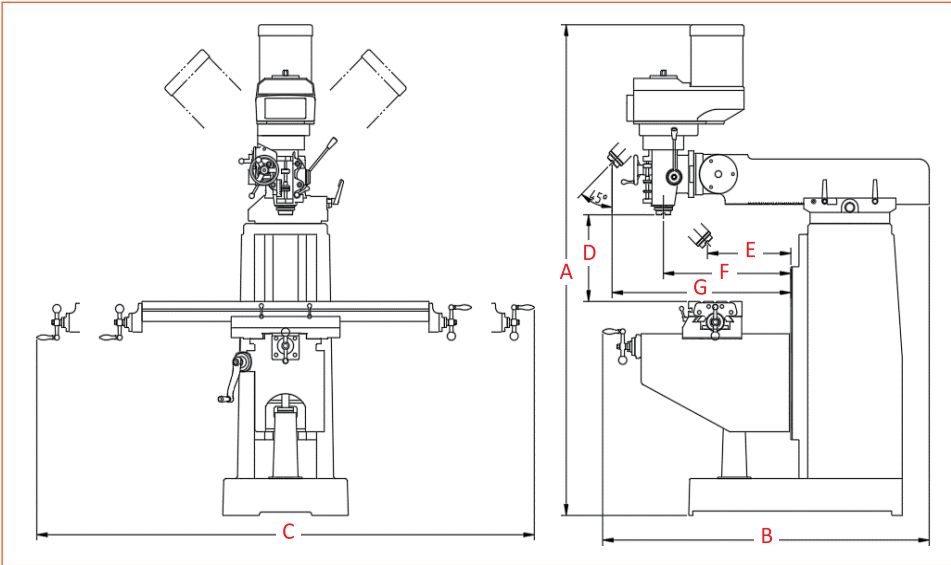
SPECIFICATION

VA : Step Pulley
VS : Mechanical Variable
IV : Inverter

SPEC.		MODEL	UNIT	2VA	2VS	2IV	3VA	3VS	3IV	4VA	4VS	4IV	6IV	
Work Table														
Table Size		mm	1245 × 230			1372 × 254			1372 × 254			1524 × 305		
		inch	49 × 9			54 × 10			54 × 10			60 × 12		
T-Slot Width		mm	16 (0.63")			16 (0.63")			16 (0.63")			16 (0.63")		
Distance between centers		mm	63.5 (2.48")			63.5 (2.48")			63.5 (2.48")			63.5 (2.48")		
Slideway Hardened & Surface Ground			Yes			Yes			Yes			Yes		
Table Surface Hardened & Ground			Yes			Yes			Yes			Yes		
Number of T-Slots			3			3			3			3		
Slideway Dovetail "V" or Square "SQ"			X/Y/Z - axes = V			X/Z - axes = V , Y - axis = SQ								
Movement and Range														
X axis - Manual		mm	970 (38.2")			1005 (39.6")			1050 (41.3")			850 (31.5")		
X axis - Automatic (opt.)			890 (35.0")			865 (34.1")			970 (38.2")			820 (32.3")		
Y axis			360 (14.2")			395 (15.6")			390 (15.4")			365 (14.4")		
Z axis			355 (14.0")			380 (14.0")			355 (14.0")			365 (14.4")		
Ram			470 (18.5")			560 (22.0")			555 (21.9")			560 (22.0")		
Quill Travel			127 (5")											
Quill Diameter			100 (4")											
Quill Feed / Spindle Rev.			0.04, 0.08, 0.015 rev. (0.0015", 0.0031", 0.006")											
Milling Head														
Spindle Motor		HP	3.0			3.0			5.0			5.0		
Spindle Taper (Tool Interface)			R8 / NT30			R8 / NT30			NT40			NT40		
Spindle Speed	16-Step Pulley Change	50Hz	rpm	75 - 3800									N / A	
		60Hz		60 - 4300									N / A	
	Mechanical Variable	50Hz		Low range 75 - 450 / High Range 680 - 3800									N / A	
		60Hz		Low range 60 - 500 / High Range 550 - 4300									N / A	
	Inverter-drive Variable			70 - 4200 Inverter										
Head Tilt (Front & Back)		degree	45											
Head Swivel (Left & Right)		degree	90											

DIMENSIONS

MODEL	UNIT	2V	3V	4V	6IV
A	mm	2180	2270	2270	2375
B	mm	1805	1980	2000	2000
C	mm	1649	1782	1782	1924
D	mm	MAX: 450	MAX: 500	MAX: 490	MAX: 450
		MIN: 80	MIN: 96	MIN: 95	MIN: 65
E	mm	MAX: 430	MAX: 525	MAX: 545	MAX: 551
		MIN: 0	MIN: 0	MIN: 0	MIN: 20
F	mm	MAX: 575	MAX: 690	MAX: 790	MAX: 790
		MIN: 120	MIN: 130	MIN: 220	MIN: 220
G	mm	MAX: 660	MAX: 780	MAX: 810	MAX: 700
		MIN: 200	MIN: 210	MIN: 255	MIN: 140



ACCESSORIES - KNEE MILL

 STANDARD ACCESSORIES
  OPTIONAL ACCESSORIES
  NOT AVAILABLE

ACCESSORIES	2VA	2VS	2IV	3VA	3VS	3IV	4VA	4VS	4IV	6IV
Step pulley change speed milling head										
Mechanical variable speed milling head										
Inverter drive variable speed milling head										
MEEHANITE cast iron machine body										
Hardened & ground X / Y / Z - axes slideways										
Chromed X / Y - axes leadscrews										
Work table surface hardened & ground										
X / Y saddles coated w/ wear-resistance film										
Ground table T-slots										
Y axis slideway front steel cover										
Y axis rear rubber cover										
Manual lubricator										
Manual drawbar										
Tools & toolbox										
Operation manual & parts list										
Electrical cabinet and control panel										
Coolant pump system										
Metal coolant chip tray										
Air powered drawbar										
LED worklight										
Electro-magnetic brake										
Z-axis vertical rapid AC motor										
CE / EMC conformity machine										
CSA approved electrics machine										
X / Y -axes ballscrew										
Power feed unit for X / Y / Z -axes										
Gear-type feed unit for X / Y / Z -axes										
Spindle guard										
Table guard										
Heavy-duty machine rear guards										
Electric powered drawbar										
3 or 4 axes Digital Readout support										
Automatic lubrication system										
Machine column riser blocks										
Milling chuck set										
Clamping kit set										
6" or 8" milling vise										
Horizontal milling attachment										
Right angle milling attachment										

BED MILL

FEATURES

MX-B51V
with CE safety package

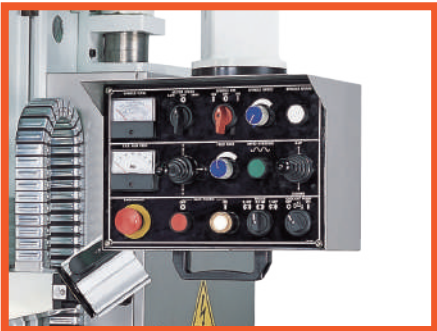


MX-B51V
Standard machine



CONTROL PANEL

MAXIMART user-friendly control interface
X / Y / Z / quill -axes digital read out system available (optional)



MILLING HEAD

3 different types of milling head available on request.

A



Step Pulley

Easy & Economical solution

S



Mechanical Variable

Smooth startup & speed transition
High(H)/Low(L) speed range shift

IV



Inverter drive Variable

Instant reaction of
speed control

MEEHANITE® Quality Machine Frame

The structural components are made from high-quality Meehanite cast iron, ensuring exceptional stability.

Oversized Slideways

Extremely wide flat bed ways (Y Axis) design of its class.

Wear-resistance Film Coated Slideways

X/Y/Z -axes slideways are coated with "wear-resistance film" and equipped with precision wipers for smooth operation.

Precision Large Work Table

Table surface, T-slots are ground to provide accurate reference edge
4 handwheels design machine

Extra Balance and Stability Milling Head

Well-balanced counterweight provides the machine with the rigidity and precision to handle a variety of milling jobs effectively.

Automatic Lubrication System

The machine is equipped with an automatic lubricator, delivering lubrication oil to all slideways and feed screws.

Stable Cutting

Milling head can be securely locked by manual locking device, which integrated with a safety micro switch.
Z-axis can move freely only after the manual locking device has been released.

3 Axes Inverter-drive Fast Feeding

X/Y/Z -axes standard auto feeding by inverter motor.

CNC-type metal Coolant/Chip Tray

Effectively maintain a clean working environment.

Overarm Swiveling Control Panel Box

All milling jobs are performed through the integrated control panel, ensuring optimal ergonomic operation.

BED MILL

B2
B3
B5



MX-B2 A / S / IV

Work Table

1370 mm
54"
×
254 mm
10"

X-axis

750 mm

Square

Spindle Taper



Y-axis

445 mm

Square

Chromed Quill

127 mm

Z-axis

490 mm

Square

Main Motor



5.0 HP

- Step-pulley (A) / Mechanical variable speed (S) / Inverter-drive speed (IV) available
- Spindle with electro-magnetic brake
- Z-axis ballscrew protected by flexible rubber cover.
- Dial indicator measuring device for quill movement
- Electrics cabinet with overarm operator's control box
- X/Y/Z -axes precision double-nut ballscrews
- Y/Z -axes box-way design
- X/Y/Z -axes brake motor



MX-B3 A / S / IV

Work Table

1524 mm
60"
×
380 mm
15"

X-axis

1050 mm

Square

Spindle Taper



Y-axis

500 mm

Square

Chromed Quill

127 mm

Z-axis

600 mm

Square

Main Motor



5.0 HP

- Step-pulley (A) / Mechanical variable speed (S) / Inverter-drive speed (IV) available
- Spindle with electro-magnetic brake
- Z-axis ballscrew protected by flexible rubber cover.
- Dial indicator measuring device for quill movement
- Electrics cabinet with overarm operator's control box
- X/Y/Z -axes precision double-nut ballscrews
- Y/Z -axes box-way design
- X/Y/Z -axes brake motor



MX-B5 A / S / IV

Work Table

1575 mm
62"
×
425 mm
16.75"

X-axis

1200 mm

Square

Spindle Taper



Y-axis

580 mm

Square

Chromed Quill

127 mm

Z-axis

600 mm

Square

Main Motor



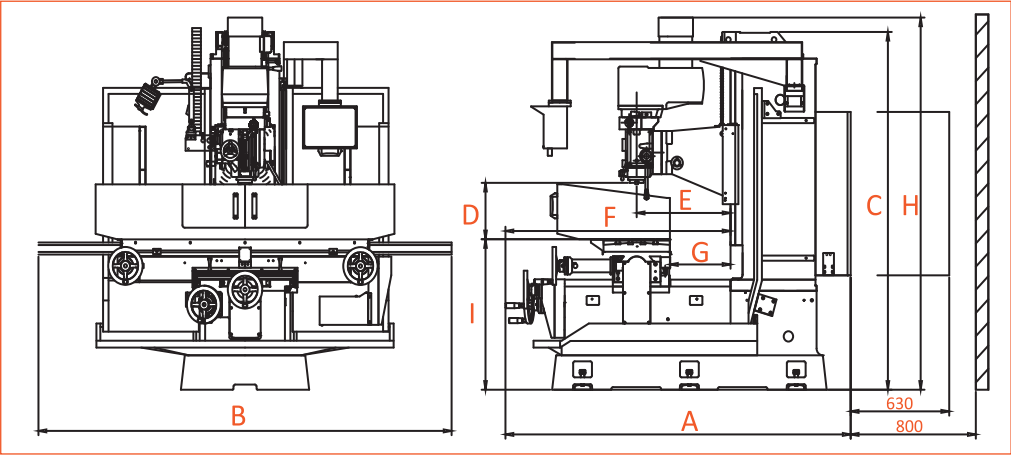
5.0 HP

- Step-pulley (A) / Mechanical variable speed (S) / Inverter-drive speed (IV) available
- Spindle with electro-magnetic brake
- Z-axis ballscrew protected by flexible rubber cover.
- Dial indicator measuring device for quill movement
- Electrics cabinet with overarm operator's control box
- X/Y/Z -axes precision double-nut ballscrews
- Y/Z -axes box-way design
- X/Y/Z -axes brake motor

SPECIFICATION

SPEC.			MODEL	UNIT	MX-B2			MX-B3			MX-B5	
					A	S	IV	A	S	IV	A	IV
Spindle Drive				-	10-Step Pulley	Mechanical Variable	Inverter	10-Step Pulley	Mechanical Variable	Inverter	10-Step Pulley	Inverter
Work Table												
Table Size				mm	1370 × 254			1524 × 380			1575 × 425	
				inch	54 × 10			60 × 15			62 × 16.75	
T-Slot Width				mm	16 (0.63")			18 (0.709")			18 (0.709")	
Number of T-Slots				-	3			3			4	
Distance between centers				mm	63.5 (2.48")			80 (3.15")			80 (3.15")	
Table Load Capacity				kg(lbs)	680 (1500)			800 (1800)			900 (2000)	
Movement and Range												
X axis				mm	750 (29.53")			1050 (41.34")			1200 (47.24")	
Y axis				mm	445 (17.52")			500 (19.69")			580 (22.83")	
Z axis				mm	490 (19.29")			600 (23.62")			600 (23.62")	
Quill Travel				mm	127 (5")			127 (5")			152 (6")	
Quill Diameter				mm	105 (4.13")			105 (4.13")			110 (4.33")	
Quill Feed/ Spindle Rev.				mm	0.04, 0.08, 0.015 rev. (0.0015", 0.0031", 0.006")							
Milling Head												
Spindle Motor				hp	5			5			7.5	
				-	A & IV with Electromagnetic Brake			A & IV with Electromagnetic Brake			with Electromagnetic Brake	
Spindle Taper (Tool Interface)				-	NT40			NT40			NT40	
Spindle Bearing Class				mm	CP4			CP4			CP4	
Spindle Speed	16-Step Pulley Change	50Hz	rpm	55 - 2580								
		60Hz		60 - 3000								
	Mechanical Variable	50Hz		55 - 3550								
		60Hz		70 - 4300								
	Inverter-drive Variable			4P/ 140 - 3650								
				8P/ 55 - 1115								
Spindle Nose to Work Table				mm	80 - 580 (3.15" - 22.83")			100 - 700 (3.93" - 27.55")			100 - 700 (3.93" - 27.55")	
Spindle Center to Column				mm	440 (17.32")			520 (20.47")			600 (23.62")	
Feed												
X/Y axes Feedrate				-	18 - 788 mm/min			28 - 1100 mm/min			28 - 1100 mm/min	
				-	(.71" - 31")			(1.1" - 43.3")			(1.1" - 43.3")	
Z axis Feedrate				-	18 - 788 mm/min							
				-	(.71" - 31")							
Milling Head												
X axis Motor with Brake				hp	1/2			1			1	
Y axis Motor with Brake				hp	1/2			1			1	
Z axis Motor with Brake				hp	1/2			1/2			1/2	
Coolant System with Pump				hp	1/8			1/8			1/8	

MODEL	UNIT	MX-B2	MX-B3	MX-B5
A	mm	1680	2075	2210
B	mm	1815	2330	2645
C	mm	2000	2170	2150
D	mm	Max 570 Min 80	Max 700 Min 100	Max 700 Min 100
E	mm	440	520	600
F	mm	1150	1200	1300
G	mm	Max 530 Min 85	Max 552 Min 52	Max 600 Min 20
H	mm	2500	2600	2680
I	mm	875	875	875



ACCESSORIES - BED MILL

 STANDARD ACCESSORIES
  OPTIONAL ACCESSORIES
  NOT AVAILABLE

ACCESSORIES	MX-B2A	MX-B2S	MX-B2IV	MX-B3A	MX-B3S	MX-B3IV	MX-B5A	MX-B5IV
Step pulley change speed milling head								
Mechanical variable speed milling head								
Inverter-drive variable speed milling head								
Electro-magnetic brake on spindle motor								
All Series standard "MEEHANITE" cast iron machine body								
Box-way design on Y/Z -axes								
Hardened & precisely ground work table								
Precision ballscrews w/ double nuts on X/Y/Z -axes								
Y -axis slide-way front steel cover								
Y -axis rear rubber cover								
Z -axis ballscrew rubber protection cover								
Z -axis manual locking mechanism								
X/Y/Z -axes brake motor								
Inverter-drive variable speed feeding on X/Y/Z -axes								
Precision spindle w/ CP4 class bearings								
127 mm chromed quill								
152 mm chromed quill								
Dial indicator assembly on quill feed								
Overarm operator's control panel box								
220(380) Volt/3PH/50(60) Hz Electrical cabinet w/ lockable main switch								
Low voltage halogen work light								
Automatic lubrication system w/ alarm								
Coolant system								
CNC type metal coolant / chip tray								
CE / EMC conformity machine								
CSA approved electrics machine								
5 KVA transformer for 460 - 600 (voltage) input power								
Heavy-duty machine rear guards (both side)								
Table guard with or without interlock switch								
Spindle guard with limit switch								
Machine column riser blocks (150 mm)								
Air powered drawbar								
Electric powered drawbar								
Coolant-oil skimmer								
3 or 4 axes Digital readout support								
CNC controller package application (Fagor)								
CNC ready machine								
Milling chuck set								
Clamping kit set								
Milling vise (6" / 8") application								
Horizontal milling attachment								
Right angle milling attachment								

UNIVERSAL MILL

FEATURES

STANDARD UNIVERSAL MILL



Horizontal Milling Head

6-step pulley-type
9-step pulley-type depends on model

Vertical Milling Head

16-step pulley-type
Mechanical variable speed
Inverter-drive available

Gear-driven X-axis Feed

The longitudinal movement of the table is transmitted through powerful gearbox, allowing machine excellent in heavy cutting.

MEEHANITE® Quality Machine Frame

Powered Elevation Table

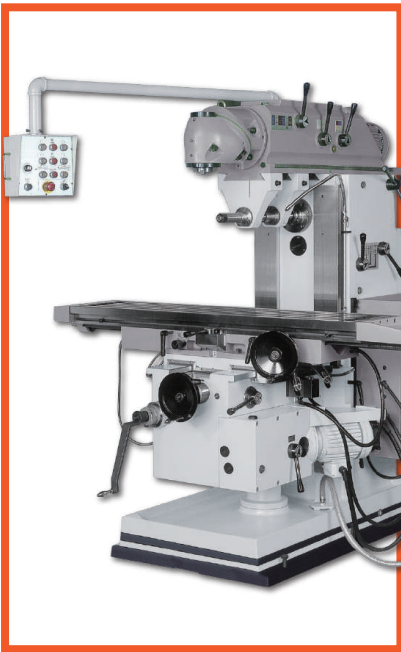
Table Swivel (left & right) 45°

Oversized X/Y/Z-axes Slideways

Work light & Coolant system

Maximum Quill travel 150 mm

HURON UNIVERSAL MILL



Huron-type Spindle Head

360° swivel angle multiple machining functions.

Overarm Swiveling Control Panel Box

Swiveling control panel for added convenience of operation.

Horizontal Vertical Spindle Taper

ISO 40/50 spindle taper
Designed to fit various tools and machining.

MEEHANITE® Quality Machine Frame

Hardened & Precisely Ground Work Table Surface

Maximum Table size 1850 × 300

Wider X/Y/Z-axes Slideways

Coolant System

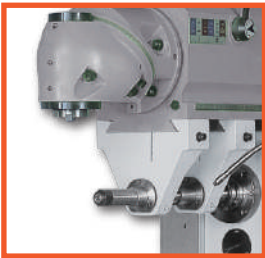
Table Swivel (left & right) 45°

CLASSIFICATION TABLE

ITEMs	Dual motors	Single motor
Standard spindle head	3VHS 6VHA 6VHS 6VH-VA 6VH-VS 6VH-IV 8QM	2UM
Huron spindle head	8M 8UM	5U 8U



Standard spindle head



Huron spindle head

UNIVERSAL MILL

2UM
3VHS

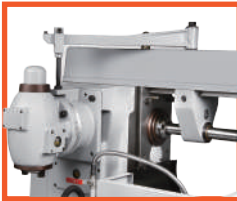


2UM

Work Table 1050 mm 41" × 240 mm 9"	X-axis MANUAL 560 mm AUTO 560 mm Dovetail	Spindle Taper NT40	Z-axis Vertical 420 mm Horizontal 390 mm Dovetail	Dual Motor Vertical 3.0 HP Horizontal 3.0 HP
--	---	----------------------------------	---	---

- X/Y/Z-axes dovetail slideway
- Enlarged work table available (300×1200 mm)
- X-axis gearbox power feed
- Vertical head attachment is standard
- Manual Lubricator
- Coolant system

FEATURES



- Vertical and Horizontal milling head share same motor
- Available to use slotting attachment
- Universal dividing head can be transmitted by screw
- The support bracket provides heavy duty machining (optional)
- Suitable model for education / college training



3VHS

Work Table 1200 mm 47" × 300 mm 11"	X-axis MANUAL 700 mm AUTO 700 mm Dovetail	Spindle Taper NT40	Z-axis Vertical 330 mm Horizontal 330 mm Dovetail	Dual Motor Vertical 5.0 HP Horizontal 4.0 HP
---	---	----------------------------------	---	---

- X/Y/Z-axes dovetail slideway
- X-axis gearbox power feed
- Manual Lubricator
- Coolant system
- Work light standard

FEATURES



- Available to use slotting attachment
- Universal dividing head can be transmitted by screw
- Compact machine designed with vertical & horizontal milling application

UNIVERSAL MILL

6VHA
6VHS



6VHA

Work Table

1500 mm
59"
×
300 mm
11"

X-axis

MANUAL

1000 mm

AUTO

1000 mm

Square

Spindle Taper



Y-axis

400 mm

Square

Z-axis

Vertical

460 mm

Horizontal

410 mm

Square

Dual Motor



Vertical

5.0 HP

Horizontal

5.0 HP

- X-axis gearbox power feed
- Inverter-drive variable speed feeding on Y-axis
- Z-axis powered table up/down elevation
- Electrical control box
- Automatic lubrication system
- Coolant system



6VHS

Work Table

1500 mm
59"
×
300 mm
11"

X-axis

MANUAL

1000 mm

AUTO

1000 mm

Square

Spindle Taper



Y-axis

400 mm

Square

Z-axis

Vertical

460 mm

Horizontal

410 mm

Square

Dual Motor



Vertical

5.0 HP

Horizontal

5.0 HP

- X-axis gearbox power feed
- Inverter-drive variable speed feeding on Y-axis
- Z-axis powered table up/down elevation
- Electrical control box
- Automatic lubrication system
- Coolant system

FEATURES



- X / Y axis operation on saddle for ergonomic operation
- Y / Z -axes box-way slideway
- X / Y -axes standard ballscrew
- Powered table up/down elevation



- 16-step speed on vertical spindle (6VHA)
- Variable speed on vertical spindle (6VHS)
- 9-step speed on horizontal spindle
- Dual motors for horizontal & vertical milling head

UNIVERSAL MILL

6VH



6VH-IV



6VH-VS

6VH-VA.VS.IV

Work Table

1500 mm

59"

×

300 mm

11"

X-axis

MANUAL

1000 mm

AUTO

1000 mm

Square

Spindle Taper



NT40

Y-axis

400 mm

Square

Z-axis

Vertical

460 mm

Horizontal

410 mm

Square

Dual Motor



Vertical

5.0 HP

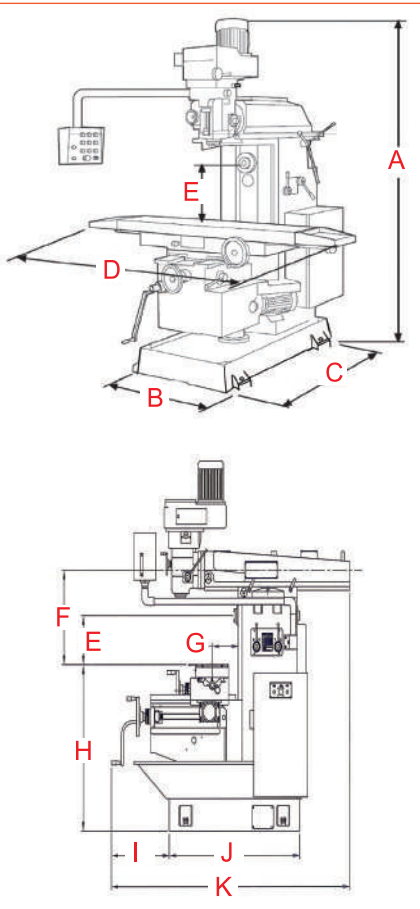
Horizontal

5.0 HP

- Y/Z -axes Box-way slideway
- X/Y -axes standard ballscrew
- Inverter-drive variable speed feeding on X/Y -axes
- Spindle speed choice of
 - Pulley-type (6VH-VA)
 - Mechanical variable speed (6VH-VS)
 - Inverter-drive (6VH-IV)
- Z-axis powered table up/down elevation
- Electrical control box
- Automatic lubrication system
- Coolant system

DIMENSIONS

ITEMS	UNIT	2UM	3VHS	6VHA	6VHS	6VH
A	mm	1800	2240	2450	2450	2600
B	mm	588	588	850	1080	1080
C	mm	870	870	1080	850	850
D	mm	1800	1800	50 - 2300	3500	3500
E	mm	420	330	420	420	420
F	mm	Min: 0 Max: 390	Horizontal: 0 - 330 Vertical 200 - 740	Horizontal: 0 - 420 Vertical 280 - 705	Horizontal: 0 - 420 Vertical 280 - 705	Horizontal: 0 - 420 Vertical 280 - 705
G	mm	MIN: 160 MAX: 470	MIN: 210 MAX: 460	MIN: 150 MAX: 559	MIN: 150 MAX: 559	MIN: 150 MAX: 559
H	mm	MIN: 960 MAX: 1380	MIN: 940 MAX: 1325	MIN: 966 MAX: 1385	MIN: 966 MAX: 1385	MIN: 1066 MAX: 1485
I	mm	650	650	610	610	610
J	mm	870	870	1060	1060	1060
K	mm	MIN: 1500 MAX: 1950	MIN: 1900 MAX: 2230	MIN: 1700 MAX: 2240	MIN: 1700 MAX: 2240	MIN: 1700 MAX: 2240



SPECIFICATION

SPEC.	MODEL	UNIT	2UM	3VHS	6VHA	6VHS	6VH-VA	6VH-VS	6VH-IV
Work Table									
Table Size	mm		1050 × 240	1200 × 300	1500 × 300	1500 × 300	1500 × 300	1500 × 300	1500 × 300
	inch		41.3 × 9.4	47.2 × 11.8	59 × 11.8	59 × 11.8	59 × 11.8	59 × 11.8	59 × 11.8
T-Slot	mm		16 × 3 × 63	16 × 3 × 65	16 × 3 × 70	16 × 3 × 70	16 × 3 × 70	16 × 3 × 70	16 × 3 × 70
Table Swiveling (Left & Right)	degree		45 °						
Slideway Dovetail "V" or Square "SQ"			X/Y/Z -axis = V	X/Y/Z -axis = V	X/Y/Z -axis = SQ		X/Y/Z -axis = SQ		
Table Load Capacity	kg (lbs)		300 (660)						
Horizontal Spindle Milling Head									
Spindle Taper (Tool Interface)			NT40						
Milling Arbor Diameter	mm		27						
Number of Spindle Speed		-	6 - Steps			9 - Steps			
	50Hz	rpm	90 - 1225	90 - 1225	90 - 1320				
	60Hz	rpm	108 - 1470	108 - 1470	90 - 1320				
Spindle center to worktable		mm	0 - 320	0 - 330	0 - 400				
Spindle center to overarm bottom		mm	120	135	160	120	160	160	160
Motor	HP		3.0	4.0	5.0	5.0	5.0 (4P)	5.0 (4P)	5.0 (4P)
Vertical Spindle Milling Head									
Spindle Taper (Tool Interface)			NT40						
Number of Spindle Speed		-	-	Mechanical Variable Speed	16 - steps	Mechanical Variable Speed	16 - steps	Mechanical Variable Speed	Inverter Variable Speed
	50Hz	rpm	90 - 1225	70 - 3800	63 - 3000	70 - 3800	63 - 3000	70 - 3800	0 - 4000
	60Hz	rpm	108 - 1470		75 - 3600		75 - 3600		
Head Swivel (Left & Right)		degree	90						
Spindle center to worktable		mm	0 - 390	70 - 420	90 - 500				
Motor	HP		3.0(4P)	5.0(4P)	5.0(2P) 3.0(4P)	5.0(4P)	5.0(2P) 3.0(4P)		5.0(4P)
Movement and Range									
X-axis -Manual / Automatic (opt.)	mm		560 (22")	700 (27.5")	1000 (39.3")		1000 (39.3")		
Y-axis	mm		300 (11.8")	300 (11.8")	400 (15.7")		400 (15.7")		
Z-axis (for Vertical Spindle)	mm		420 (16.5")	330 (13")	460 (18.1")		460 (18.1")		
Z-axis (for Horizontal Spindle)	mm		390 (16.0")	330 (13")	410 (16.1")		410 (16.1")		
Overarm Travel	mm		-	455 (17.9")	450 (17.7")		450 (17.7")		
Overarm Swivel	degree		-	360	360		360		
Quill Diameter	mm		-	150 (5.9")	140 (5.5")	150 (5.9")	140 (5.5")	150 (5.9")	150 (5.9")
Quill Travel	mm		-	105 (4.13")	110 (4.33")	105 (4.13")	110 (4.33")	105 (4.13")	105 (4.13")
Feed									
X-axis Feedrate (Longitudinal)	mm/min		21 - 246 / 6-step		12 - 270 / 12-step		0 - 960 (Inverter, 50/60 Hz)		
Y axis Feedrate (Cross)	mm/min		-	-	0 - 1320 (Inverter)				
Rapid Traverse									
X-axis Feedrate (Longitudinal)	mm/min		2056 (60 Hz)		1440 (8P)		960 (Inverter)		
Y-axis Feedrate (Cross)	mm/min		-	2056	1320		960 (Inverter)		
Z axis Feedrate (Vertical)	mm/min		-	-	680		680		
Motor									
X-axis Feedrate (Longitudinal)	HP		1.0(4P)	1.5(4P)	2.0(4P)	2.0	1.0 (4P) by 2.0 HP inverter drive		
Y-axis motor (Cross)	HP		-	-	0.5HP(4P) by 1.0HP inverter drive		0.5 (4P) by 1.0 HP inverter drive		
Z-axis motor (Vertical)	HP		-	-	1.0 (8P)	1.0 (8P)	1.0 (8P)	1.0 (8P)	1.0 (8P)
Coolant System with Pump	HP		1/8	1/8	1/8	1/8	1/8	1/8	1/8

ACCESSORIES - UNIVERSAL MILL

 STANDARD ACCESSORIES
  OPTIONAL ACCESSORIES
  NOT AVAILABLE

ACCESSORIES	2UM	3VHS	6VHA	6VHS	6VH-VA	6VH-VS	6VH-IV
"MEEHANITE" cast iron machine body							
X/Y/Z -axes slideways, table surface well hardened & ground							
X/Y -axis slideway coated w/ wear-resistance film							
X -axis gearbox power feed							
Inverter-drive variable speed feeding on X/Y -axes							
Inverter-drive variable speed feeding on Y -axis							
Hardened & ground X/Y/Z slideways							
Electrical box							
Toolbox & tools							
Coolant system							
Manual lubricator							
Y -axis slideway front steel cover							
Y -axis rear rubber cover							
Spindle drawbar							
Work light (LED)							
Vertical head attachment (same motor w/ horizontal head)							
Φ27mm (1") Horizontal milling arbor with sleeves							
Z -axis Powered table up/down elevation							
Automatic lubrication system							
X/Y -axes ballscrew							
CE / EMC / CSA conformity machine							
Spindle motor upgrade - 4.0 HP Horizontal spindle motor							
Spindle motor upgrade - 7.5 HP vertical spindle motor							
12-step spindle speed							
X-axis 12-step gear-box power feed							
Y-axis 9-step gear-box power feed							
Power feed for X / Y / Z - axis							
2/3 -axes Digital Readout support							
Spindle guard with limit switch							
Table guard							
Spindle drawbar							
Air power drawbar							
Electric power drawbar							
Metal coolant chip tray							
Enlarged worktable 300x1200 mm							
Extra horizontal milling arbor							
Milling cutter and tools							
Support bracket							
Clamping kit set							
Milling chuck set							
Hydraulic clamping vise (6" / 8") application							
Milling vise (6" / 8") application							

UNIVERSAL-HURON

5U
8U



5U

Work Table

1300 mm
51"
×
300 mm
11.7"

X-axis

AUTO

950 mm

Square

Spindle Taper



Y-axis

380 mm

Square

Z-axis

Vertical

450 mm

Horizontal

385 mm

Square

Main Motor



5.0 HP

- Vertical and horizontal milling head share the same motor and gear box.
- Table swivels up to 45 degree (left and right)
- User friendly design swiveling control panel
- The universal milling head swivel 360° to take on any multi-angle cutting job



8U

Work Table

1500 mm
59"
×
300 mm
13.7"

X-axis

AUTO

1150 mm

Square

Spindle Taper



Y-axis

400 mm

Square

Z-axis

Vertical

500 mm

Horizontal

500 mm

Square

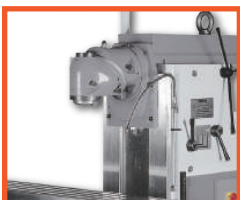
Main Motor



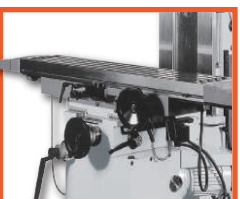
7.5 HP

- Vertical and horizontal milling head share the same motor and gear box.
- Table swivels up to 45 degree (left and right)
- User friendly design swiveling control panel
- The universal milling head swivel 360° to take on any multi-angle cutting job

FEATURES



- Huron - type milling head for multi-angle metal cutting
- ISO #40 spindle taper is standard
- ISO #50 spindle taper is available for heavy-duty cutting application



- A maximum 1850 x 350 machining area for horizontal and vertical cutting application
- Inverter-drive variable speed feeding on X/Y/Z - axes
- Wider square slideways on X/Y/Z - axes
- All gears and shafts are harden and precision ground for low-noise running
- Rugged constructed for maximum stability without deformation

UNIVERSAL-HURON

8M
8UM
8QM



8M HURON HEAD

Work Table	X-axis	Spindle Taper	Z-axis	Dual Motor
1500 mm 59" × 350 mm 13.7"	AUTO 1150 mm Square	ISO 40/50 Y-axis 400 mm Square	Vertical 450 mm Horizontal 415 mm Square	 Horizontal 7.5 HP Vertical 5.5 HP

- 12-step pulley-type horizontal milling head
- 12-step pulley-type vertical milling head
- Horizontal & vertical milling head is driven by 2 motors and 2 gear boxes separately
- Vertical spindle with a quill travel (100 mm)
- Inverter - drive variable speed feeding on X/Y/Z - axes



8UM HURON HEAD

Work Table	X-axis	Spindle Taper	Z-axis	Dual Motor
1500 mm 59" × 350 mm 13.7"	AUTO 1150 mm Square	ISO 40/50 Y-axis 400 mm Square	Vertical 500 mm Horizontal 415 mm Square	 Horizontal 7.5 HP Vertical 5.5 HP

- 12-step pulley-type horizontal milling head
- 12-step pulley-type vertical milling head
- Horizontal & vertical milling head is driven by 2 motors and 2 gear boxes separately
- Vertical spindle without quill travel
- Inverter - drive variable speed feeding on X/Y/Z - axes



8QM

Work Table	X-axis	Spindle Taper	Z-axis	Dual Motor
1500 mm 59" × 350 mm 13.7"	AUTO 1150 mm Square	ISO 40 Y-axis 400 mm Square	Vertical 500 mm Horizontal 415 mm Square	 Horizontal 7.5 HP Vertical 5.0 HP

- 12-step pulley-type horizontal milling head
- Mechanical variable speed vertical milling head
- Horizontal & vertical milling head is driven by 2 motors and 2 gear boxes separately
- Vertical spindle with a quill travel (150 mm)
- Inverter - drive variable speed feeding on X/Y/Z - axes

SPECIFICATION

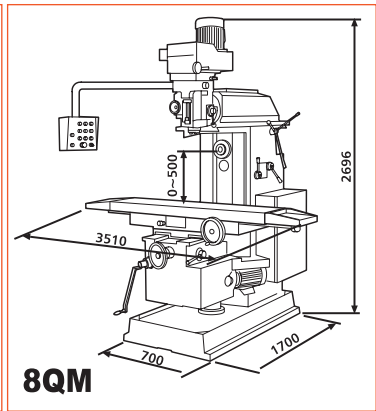
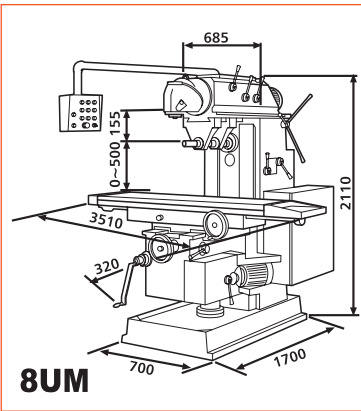
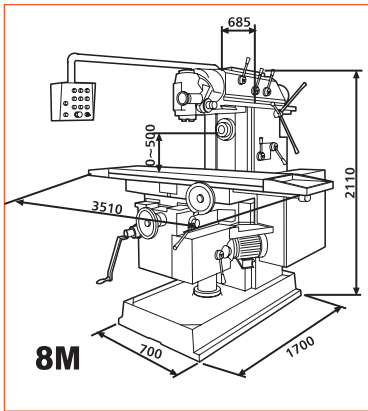
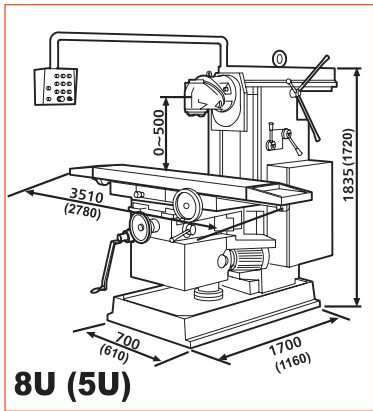
SPEC.	MODEL	UNIT	5U	8U	8QM	8M	8UM
Work Table							
Table Size	mm		1300 × 300	1500 × 350	1500 × 350	1500 × 350	1500 × 350
	inch		51" × 11.7"	59" × 13.7"	59" × 13.7"	59" × 13.7"	59" × 13.7"
Table Swiveling (Left & Right)	degree		45°	45°	45°	45°	45°
Huron head Swiveling	degree		360°	360°	360°	360°	360°
T-Slot Width	mm		16H7	16H7	16H7	16H7	16H7
T-Slot Center Distance	mm		70	60	60	60	60
Number of T-Slots	-		3	5	5	5	5
Table Load Capacity	kg (lb)		500 (1100)	600 (1320)	600 (1320)	600 (1320)	600 (1320)
Horizontal Spindle Milling Head							
Spindle Motor	HP		5	7.5	7.5	7.5	7.5
Spindle Taper (Tool Interface)	-		ISO-40	ISO-40/50	ISO-40	ISO-40/50	ISO-40/50
Diameter of Spindle Nose	mm		88.88	88.88 - 128.57	88.88 - 128.57	88.88 - 128.57	88.88 - 128.57
Milling Arbor Diameter	mm		27 (1")	27	27	27	27
Distance from spindle to overarm	mm		155 (6")	155 (6")	155 (6")	155 (6")	155 (6")
Number of Spindle Speed	-		12 - step	12 - step	12 - step	12 - step	12 - step
	rpm		50 - 1700 (50Hz)	40 - 1800 (50Hz)	40 - 1800 (50Hz)	40 - 1800 (50Hz)	40 - 1800 (50Hz)
Vertical Spindle Milling Head							
Spindle Motor	HP		-	-	5	5.5	5.5
Spindle Taper (Tool Interface)	-		-	-	ISO-40	ISO-40/50	ISO-40/50
Number of Spindle Speed	-		-	-	Mechanical Variable Speed	12 - step	12 - step
	rpm		-	-	70 - 3600	35 - 1600 (50Hz)	35 - 1600 (50Hz)
Quill Travel	mm		-	-	150	100	-
Movement and Range							
Automatic Longitudinal (X-axis)	mm		950 (37.3")	1150 (46")	1150 (46")	1150 (46")	1150 (46")
Automatic Cross (Y-axis)	mm		380 (14.9")	400 (15 3/4")	400 (15 3/4")	400 (15 3/4")	400 (15 3/4")
Automatic Vertical (Z-axis)	mm		450 (17.7")	500 (20")	500 (20")	450 (18")	500 (20")
Feed							
X/Y axes Feedrate (Longitudinal/Cross)	mm/min		10 - 1208	10 - 1208	10 - 1208	10 - 1208	10 - 1208
			(0.4" - 47")	(0.4" - 47")	(0.4" - 47")	(0.4" - 47")	(0.4" - 47")
Z axis Feedrate (Vertical)	mm/min		5 - 604	5 - 604	5 - 604	5 - 604	5 - 604
			(0.2" - 23")	(0.2" - 23")	(0.2" - 23")	(0.2" - 23")	(0.2" - 23")
Rapid Traverse							
X/Y axes Feedrate (Longitudinal/Cross)	mm/min		1208	1208	1208	1208	1208
			(47")	(47")	(47")	(47")	(47")
Z axis Feedrate (Vertical)	mm/min		5 - 604	5 - 604	5 - 604	5 - 604	5 - 604
			(23")	(23")	(23")	(23")	(23")
Motor							
V-belts	-		4	4	4	4	4
X/Y/Z -axes Motor	HP		3	3	3	3	3
Coolant System with Pump	HP		1/8	1/8	1/8	1/8	1/8
Standard Machine Dimensions							
Net Weight	kg (lb)		2400 (5280)	2900 (6380)	2900 (6380)	2900 (6380)	2900 (6380)
Gross Weight	kg (lb)		2800 (6160)	3300 (7260)	3300 (7260)	3300 (7260)	3300 (7260)
Machine Packing (L×W×H)	mm		1700×2200×2200	1900×2300×2300	1900×2300×2300	1900×2300×2300	1900×2300×2300
	inch		70"×87"×87"	76"×90"×88"	76"×90"×88"	76"×90"×88"	76"×90"×88"

ACCESSORIES - UNIVERSAL HURON

● STANDARD ACCESSORIES ○ OPTIONAL ACCESSORIES ⊘ NOT AVAILABLE

ACCESSORIES	5U	8U	8QM	8M	8UM
Huron-type milling head	●	●	⊘	●	●
Horizontal milling spindle with its own drive	⊘	⊘	●	●	●
"MEEHANITE" cast iron machine body	●	●	●	●	●
X/Y/Z-axes slideways, table surface well hardened & ground	●	●	●	●	●
Y-axis slideway covered w/ "TURCITE"	●	●	●	●	●
Inverter-drive variable speed feeding on X/Y/Z-axes	●	●	●	●	●
All gears and shafts are hardened and precision ground for low-noise running	●	●	●	●	●
Rapid traverse on X/Y/Z-Axes	●	●	●	●	●
X/Y/Z-axes oversized square slideways	●	●	●	●	●
Φ27mm (1") horizontal ISO#40 milling arbor	●	●	●	●	●
Coolant pump & coolant system	●	●	●	●	●
Manual lubricator	●	●	●	●	●
Electrical box w/ swivel operator control panel	●	●	●	●	●
Toolbox with tools	●	●	●	●	●
Operation manual/Parts lists	●	●	●	●	●
Horizontal / Vertical manual drawbar	●	●	●	●	●
CE / EMC / CSA conformity machine	○	○	○	○	○
Main motor upgrade	○	○	○	○	○
ISO#50 milling head machine	⊘	○	⊘	○	○
X/Y - axes ballscrew(s)	○	○	○	○	○
Enlarged worktable 1850 x 350 mm	⊘	○	○	○	○
Table guard / spindle guard	○	○	○	○	○
2/3-axes Digital Readout Support	○	○	○	○	○
Air power drawbar (ISO#40/ISO#50) on horizontal/vertical milling head	○	○	○	○	○
Automatically lubrication system	○	○	○	○	○
Work light (LED)	○	○	○	○	○
Metal coolant chip tray	○	○	○	○	○
Universal dividing head set (BS-2), including 3-jaw chuck (6")	○	○	○	○	○
Horizontal/Vertical rotary table (10" / 12")	○	○	○	○	○
Milling chuck set	○	○	○	○	○
Hydraulic clamping vise (6" / 8") application	○	○	○	○	○
Milling vise (6" / 8") application	○	○	○	○	○
Clamping kit set	○	○	○	○	○

DIMENSIONS



MAXIMART CORPORATION

TEL: 886-2-2531-4161 / FAX: 886-2-2563-4936

EMAIL: info@maximartcorp.com

www.maximartcorp.com

