

The Ultimate in Performance

MCV Series

MCV-1300i S/MCV-1500i/
MCV-1500i +/MCV-2000i

LEADWELL
LEADWELL CNC MACHINES MFG., CORP.

LEADWELL CNC MACHINES MFG., CORP.



No. 23 Gong 33th Road, Taichung Industrial Park
Taichung 407, Taiwan
T: 886 - 4 - 23591880
F: 886 - 4 - 23592555, 886 - 4 - 23593875
E: sales@leadwell.com.tw

www.leadwell.com.tw

* All performance are based on 220V/3PH/60HZ. Specifications are subject to change without notice.

2016.02



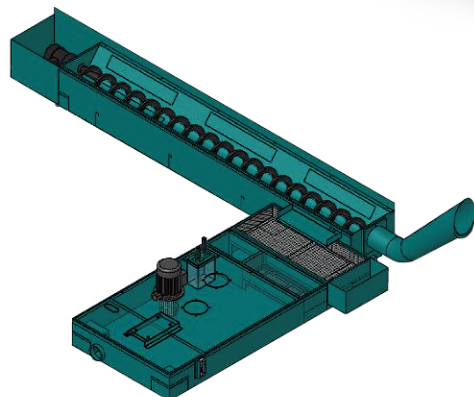
VERTICAL MACHINING CENTERS

Rigid construction, unsurpassed quality, high accuracy and excellent performance under severe machining conditions.

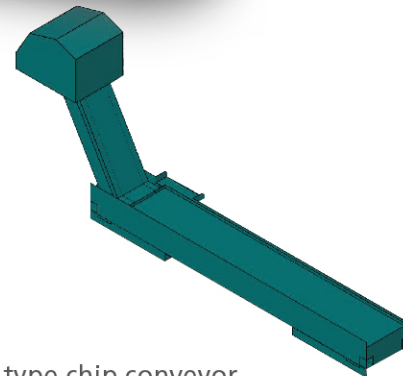


MCV-1300iS

STD



OPT



Scraper / chain type chip conveyor.

FEATURE

Cast Iron Construction

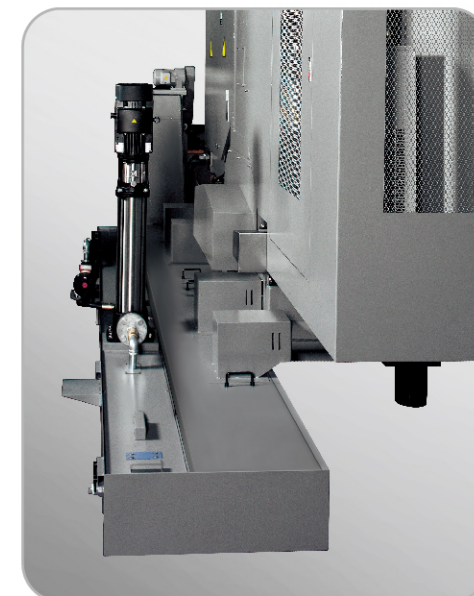
LEADWELL uses only top quality well-ribbed castings. Finite Element Analysis (FEA) is used on each new casting to determine the size and location of all internal ribs ensuring high torsional stiffness and minimum vibration. The cast iron base column, saddle, headstock, & tables have over 10 times the dampening capacity of those made from steel resulting in superior cutting performance.

Heavy-Duty Square Ways

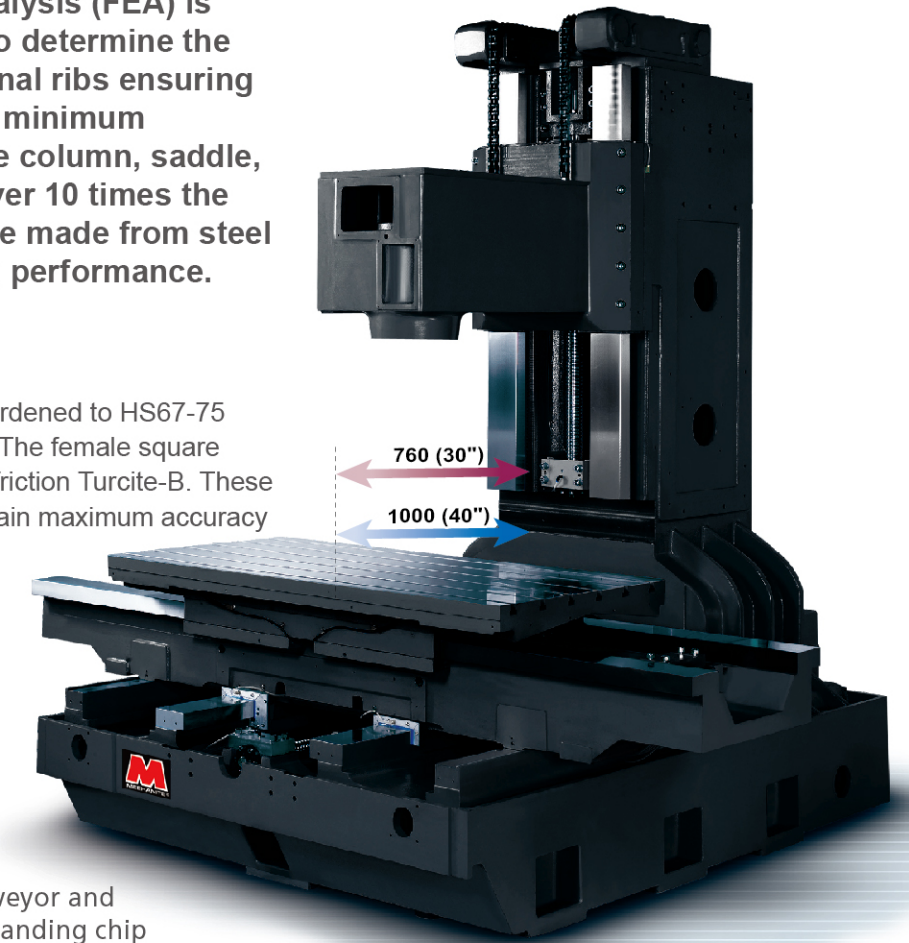
The heavy-duty square ways are hardened to HS67-75 (HRC 50-60) and precision ground. The female square ways and gibs are coated with anti-friction Turcite-B. These features allow the machine to maintain maximum accuracy levels.

High efficient front-typed chip conveyor and best coolant tank design with outstanding chip removal.

Chip Removal

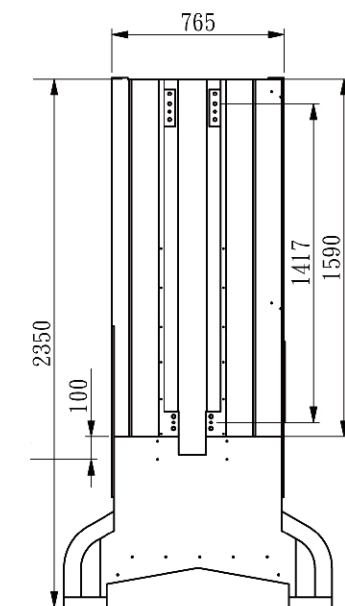


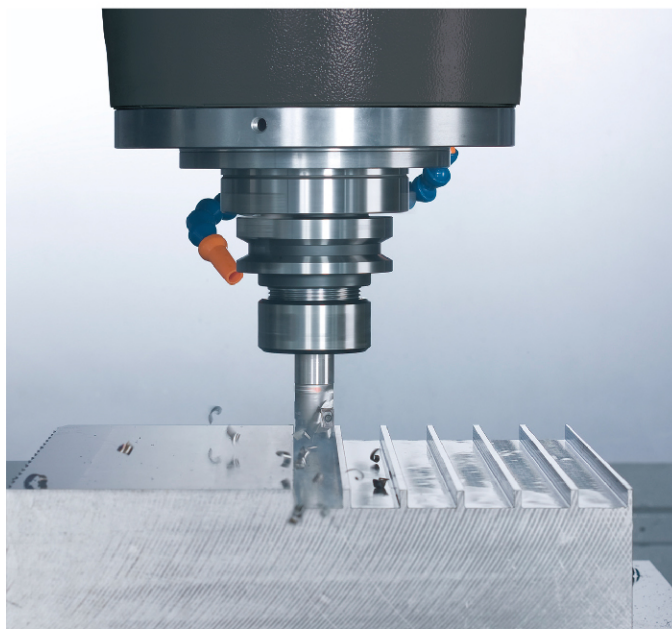
MCV-1500i



MCV-1500i/1500i+/2000i opt

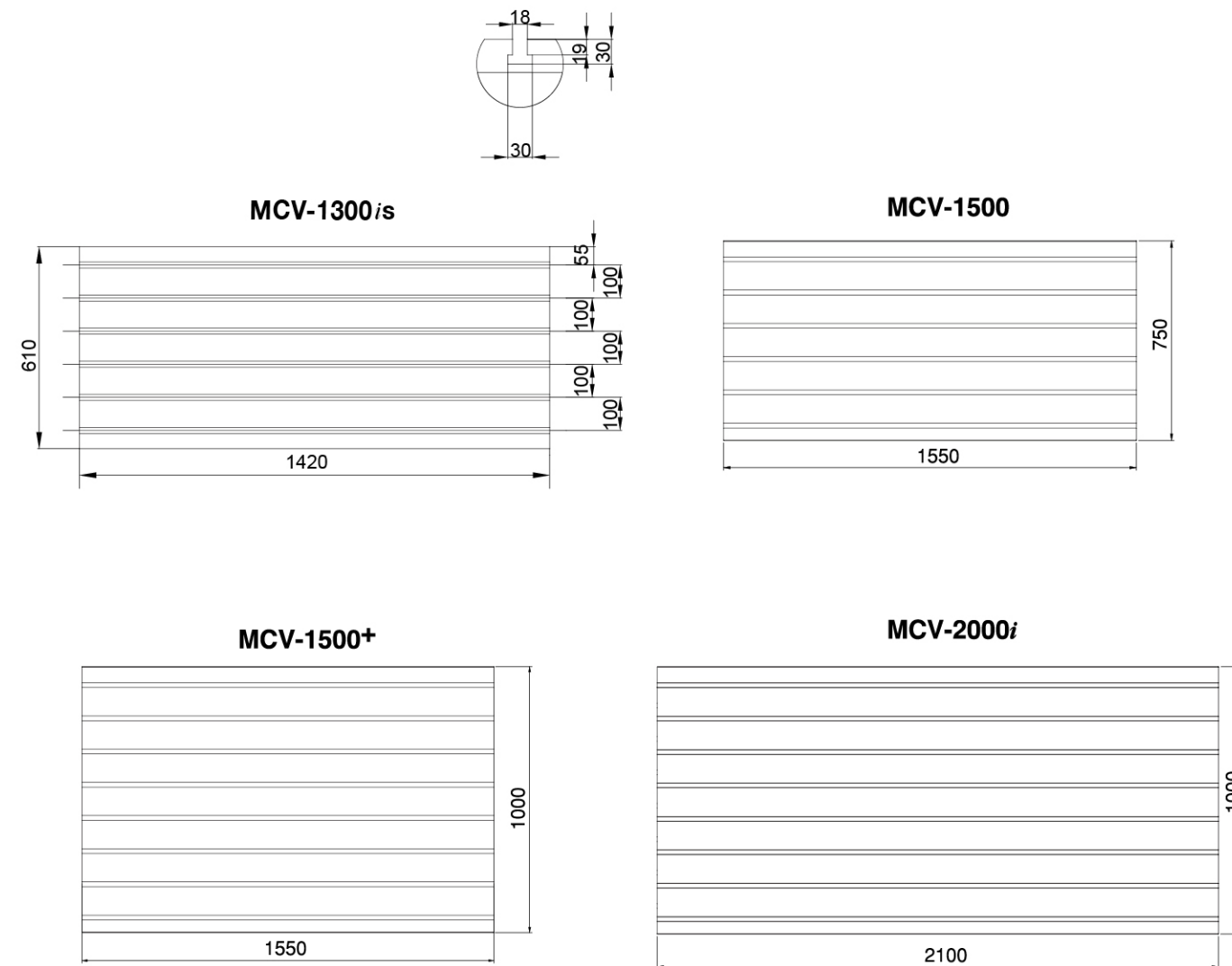
Extention Column 400





It is designed for heavy cutting with high removal rate over 500cc/min in S45C material.

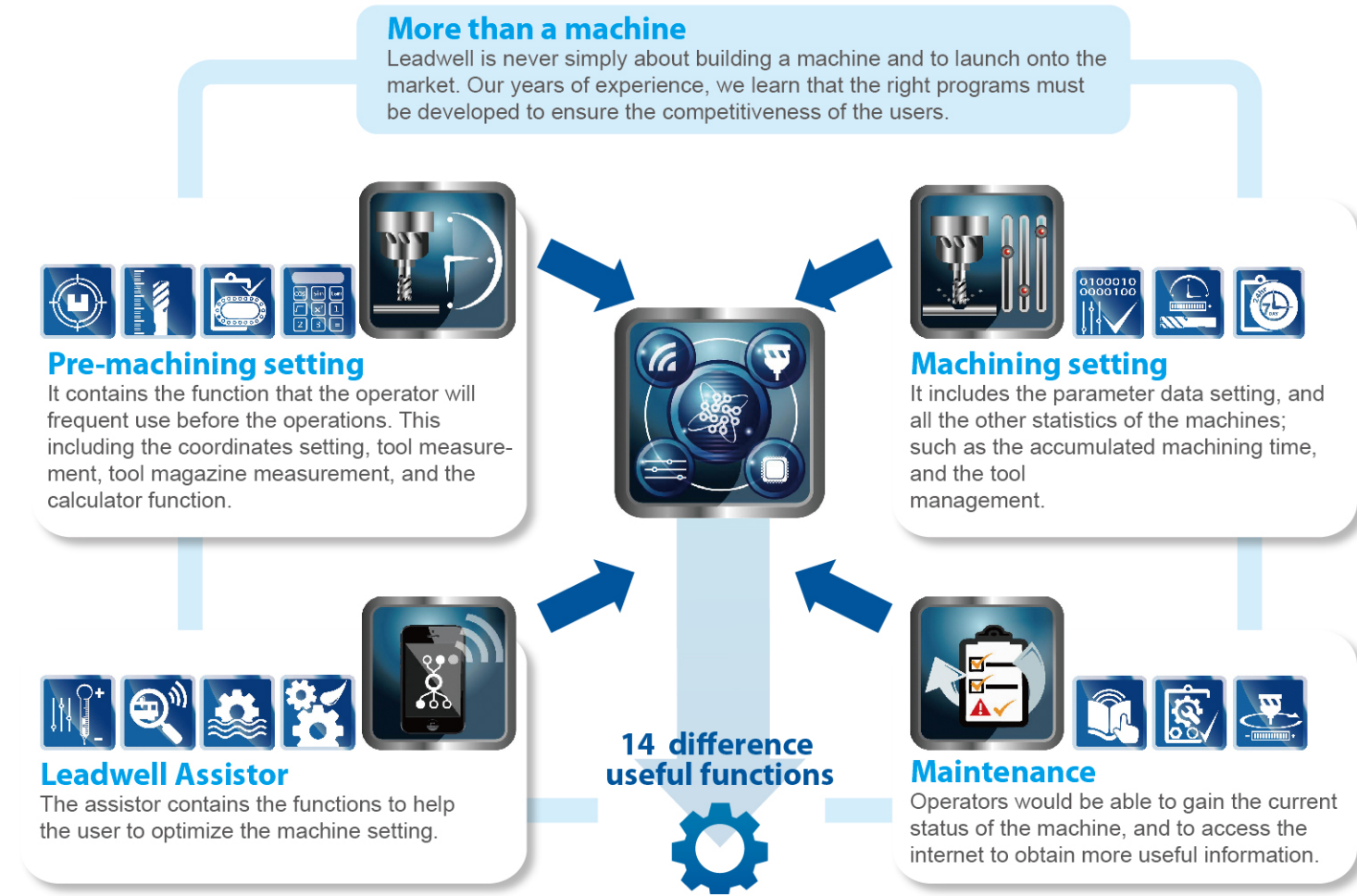
Table Dimension



Cutting Capacity

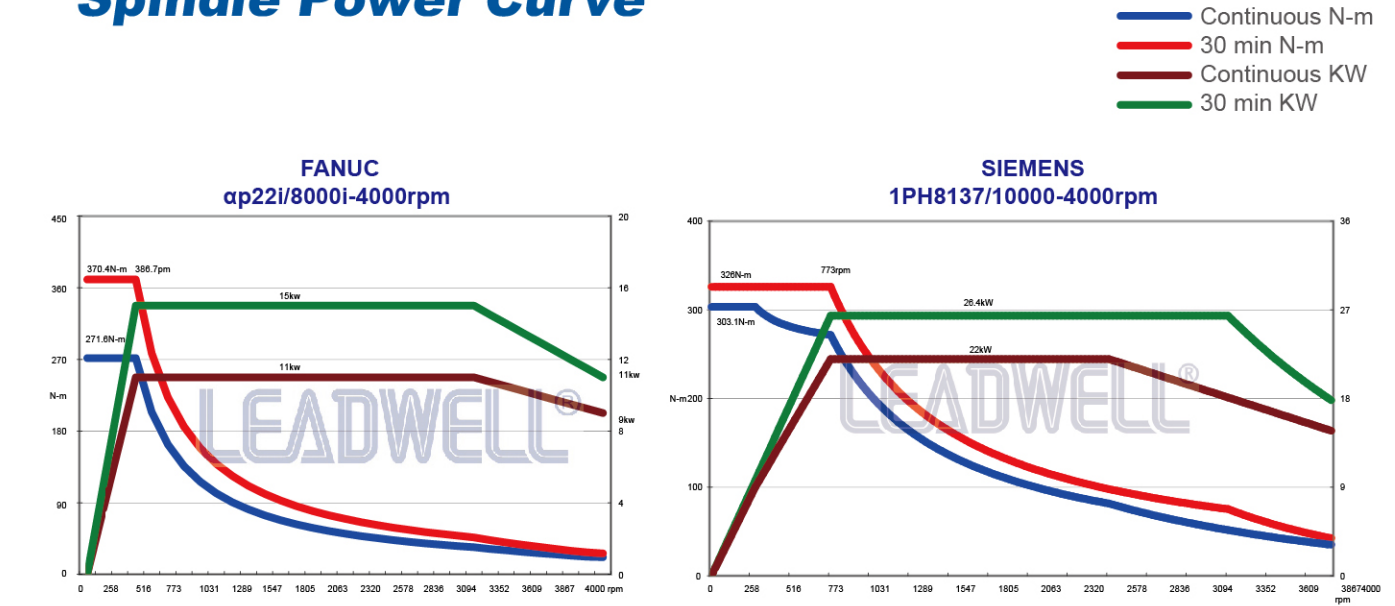
1300iS				1500i / 1500i+ / 2000i			
	Face Milling	Drilling	Tapping		Face Milling	Drilling	Tapping
Tool	φ125	φ50	M30	Tool	φ125	φ50	M30
Material	S45C	S45C	S45C	Material	S45C	S45C	S45C
Max. Capacity	500 c.c.	50 mm	30 mm	Max. Capacity	410 c.c.	50 mm	30 mm

The above information changes according to the tool, material and brand.



Machined work pieces.
Users' full satisfaction have always been Leadwell's main focus.

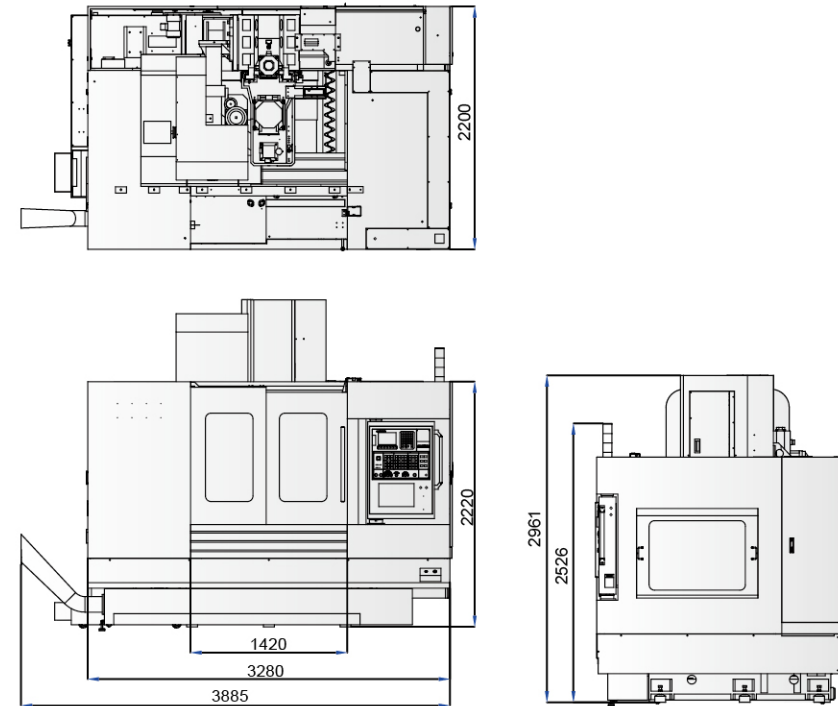
Spindle Power Curve



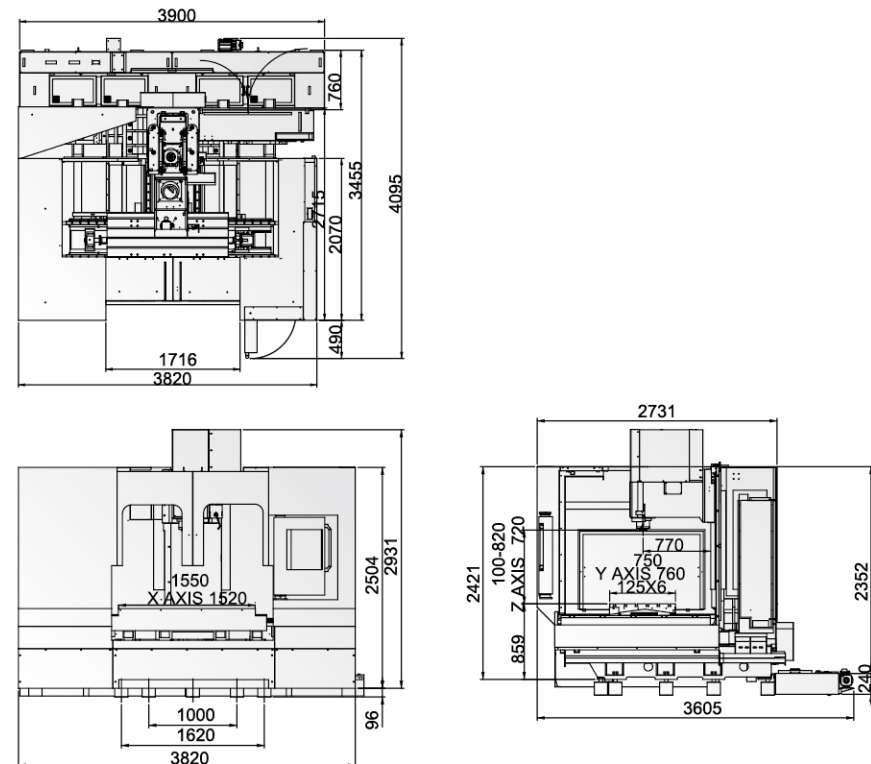
OUTLINE DIMENSION

MCV-1300iS

unit: mm



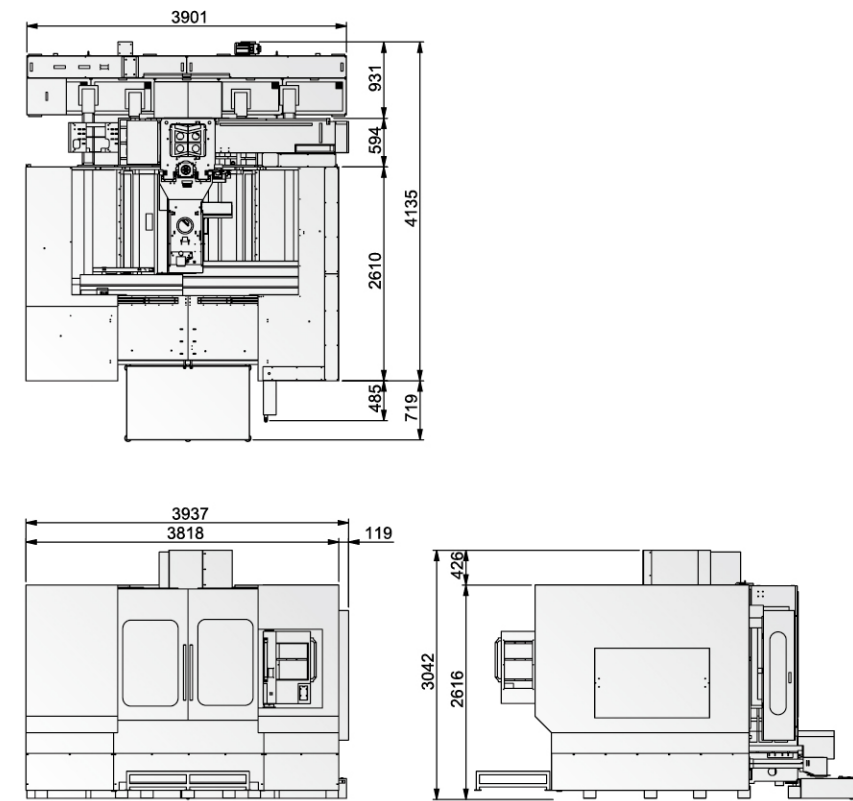
MCV-1500i



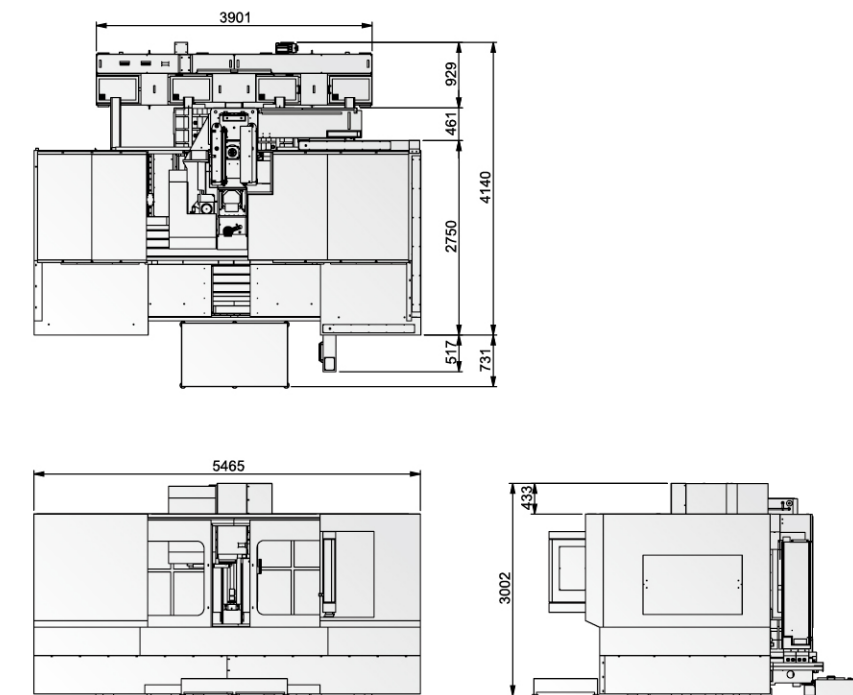
OUTLINE DIMENSION

MCV-1500i+

unit: mm



MCV-2000i



MACHINE SPECIFICATIONS

ITEM	MODEL	MCV-1300i/s	MCV-1500i	MCV-1500i+	MCV-2000i
A.T.C.	Type	ARM	ARM	ARM	ARM
CAPACITY	Unit				
X axis travel	mm (in)	1300(52)	1520 (59.8)	1520 (59.8)	2040 (80.3)
Y axis travel	mm (in)	635 (25)	760 (29.9)	1000 (40)	1000 (40)
Z axis travel	mm (in)	610 (24)	720 (28.3)	720 (28.3)	720 (28.3)
Distance from table top to spindle end	mm (in)	100-710(3.9-27.9)		120-840 (4.8-33)	
Distance from column front to spindle center	mm (in)	635 (25)	760 (30)	1000 (40)	1000 (40)
TABLE					
Table size (LxW)	mm (in)	1420x610 (56x24)	1550x750 (61x29.5)	1550x1000 (61x40)	2100x1000 (72.7x40)
Max. table load weight	kg (lb)	1000 (2200)	1300 (2863)	1300 (2863)	2000 (4405)
T-slot size	mm	18Tx100x6	18Tx125x6	18Tx125X8	
SPINDLE					
Spindle speed	rpm	4000, 6000 OPT			
Spindle nose (nominal size, No.)		7/24 Taper, NO.50			
Spindle bearing inner diameter	mm	90(3.54)	90 (3.54)	90 (3.54)	90 (3.54)
FEED RATE					
Rapid traverse X,Y,Z	M/min (IPM)	24/24/20(944.9/944.9/787)		20/20/20(787.4/787.4/787.4)	
Max. cutting feed rate	M/min (IPM)	10 (394)	5 (196.8)	5 (196.8)	5 (196.8)
A.T.C.					
Tool storage capacity	pcs	24			
Max. tool diameter (with adjacent tools)	mm (in)	100 (4)			
Max. tool length	mm (in)	300 (11.8)			
Tool change time T-T(C-C)	sec	3(6)	3 (10)		
MOTORS					
Spindle motor (30min) FANUC	kW (HP)	15(20)			
X,Y,Z axis motor	kW (HP)	4/4/7 (5.4/5.4/9.3)		4/4/4(5.4/5.4/5.4)	
MACHINE SIZE					
Height of machine (H)	mm (in)	2721 (107)	3006 (118)	3006 (118)	3006 (118)
Floor space (LxW)	mm (in)	3840x2200(151x86.6)	3820x4365 (150x171.8)	3937x4135 (155x162.8)	5466x4135 (215x162.8)
Total machine weight	kg (lb)	7000(15432)	11000 (24230)	13370 (29414)	14400 (31720)
Power requirement	KVA	30	35	35	35
Controller	FANUC	0/M			

*AVAILABLE CONTROLLER:SIEMENS/FAGOR/HEIDENHAIN

STANDARD ACCESSORIES

- RS232 interface
- Rigid tapping
- Fully enclosure guarding
- Chip conveyor(auger type)
- Work light
- Alarm lamp
- Heat exchanger
- Remote MPG
- Lubrication system
- Leveling screws and pads
- Maintenance tool box
- 4000rpm spindle
- Air purge
- Arm type ATC

OPTIONAL ACCESSORIES

- Extra coolant tank
- Spindle oil chiller
- Two speed gearbox
- C.T.S preparation
- Linear scales
- Tool overload detection
- Auto tool length measurement
- Automatic workpiece measurement
- Simple tool life management
- Chip conveyor outside machine & chip bucket
- Oil skimmer
- Coolant gun
- Rotary table preparation
- Manual tail stock for rotary table
- Through hole drill kit
- Auto counter for work piece
- DNC link software
- Arm A.T.C with 30 tools magazine
- C.T.S from A
- Air conditioner