

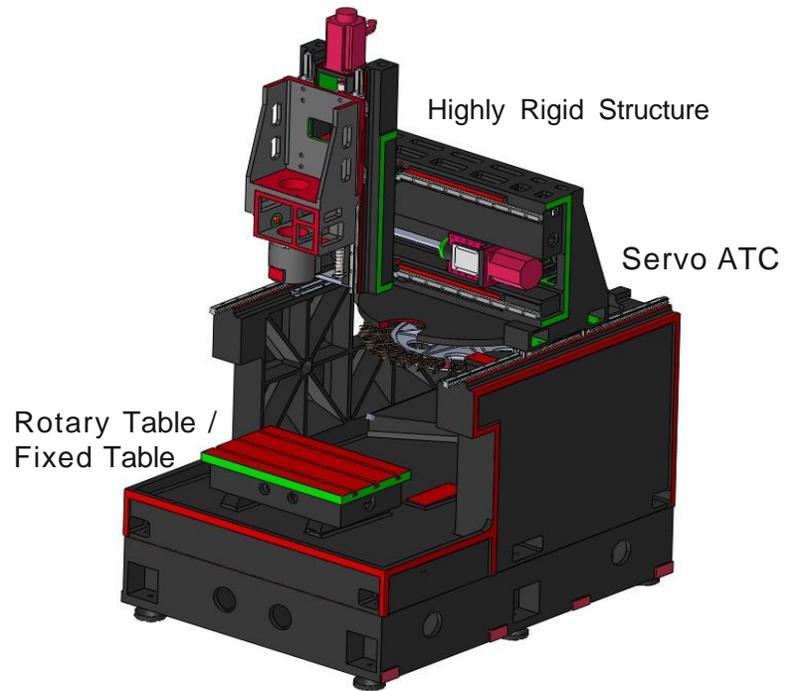


## Product Line Up

All Metal Cutting Solutions at One Place

GMC | VMC | DCMC | HMC | HBC | VTL

# IMG - Series Gantry Machining Center

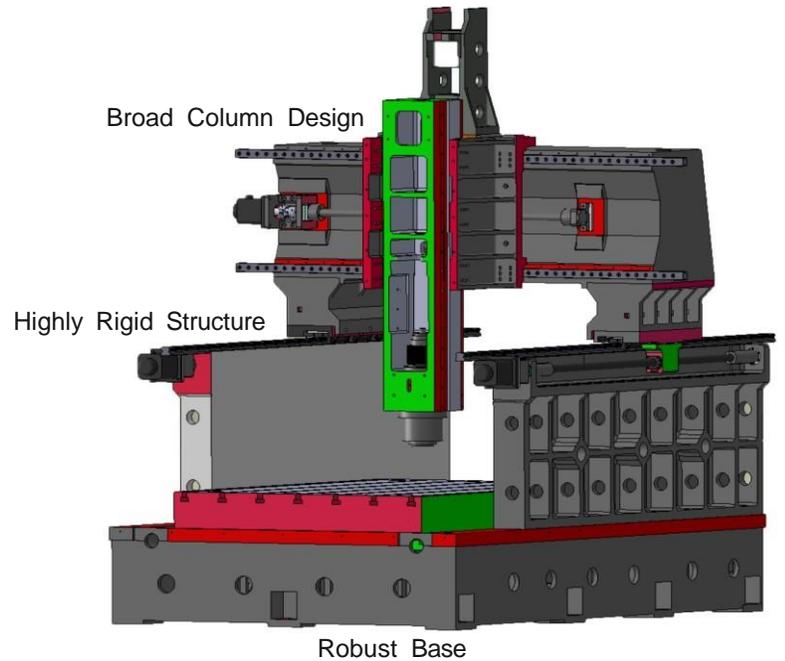


## TECHNICAL SPECIFICATIONS

Items	Unit	IMG 540	IMG 650	IMG 860	IMG 1080
<b>Work Table and Travel</b>					
Table size ( X & Y )	mm x mm	700 x 400	800 x 500	1000 x 600	1200 x 1000
Travel ( X )	mm	500	600	800	1000
Travel ( Y / Z )	mm x mm	400 / 500	500 / 500	600 / 550	800 / 600
T - Slot	No. x width	4 x 18 x 100	4 x 18 x 100	4 x 18 x 100	4 x 18 x 100
Max. Load on Table	Kg	4000	5000	6000	8000
Face to Table Top	mm	100	150 - 650	150 - 650	150 - 650
<b>Table Variants</b>	<b>A - Axis ( 4 Axis ) and A / C Axis ( 5 Axis )</b>				
<b>Feed</b>					
Rapid ( X/Y/Z )	m / min	30/30/30	30/30/30	30/30/30	30/30/30
Guideway ( X/Y/Z )	Linear Roller Guideways				
<b>Spindle</b>					
Spindle Taper / Range	RPM	BT 40 / 9000		BT 40 / 9000	
Spindle Power	Kw	5.5 / 7	7.5 / 11	7.5 / 11	7.5 / 11
Axis Motor ( X/Y/Z )	Kw	2 / 2 / 3			
<b>Accuracy</b>					
Positioning ( X/Y/Z )	mm	± 0.005 / 300			
Repeatability ( X/Y/Z )	mm	± 0.003 / 300			
<b>Tool Storage Capacity</b>	No.	20 / 24 / 30			
<b>CNC Controller</b>	Mitsubishi / Fanuc / Siemens				

# IMG - Series

## Gantry Machining Center

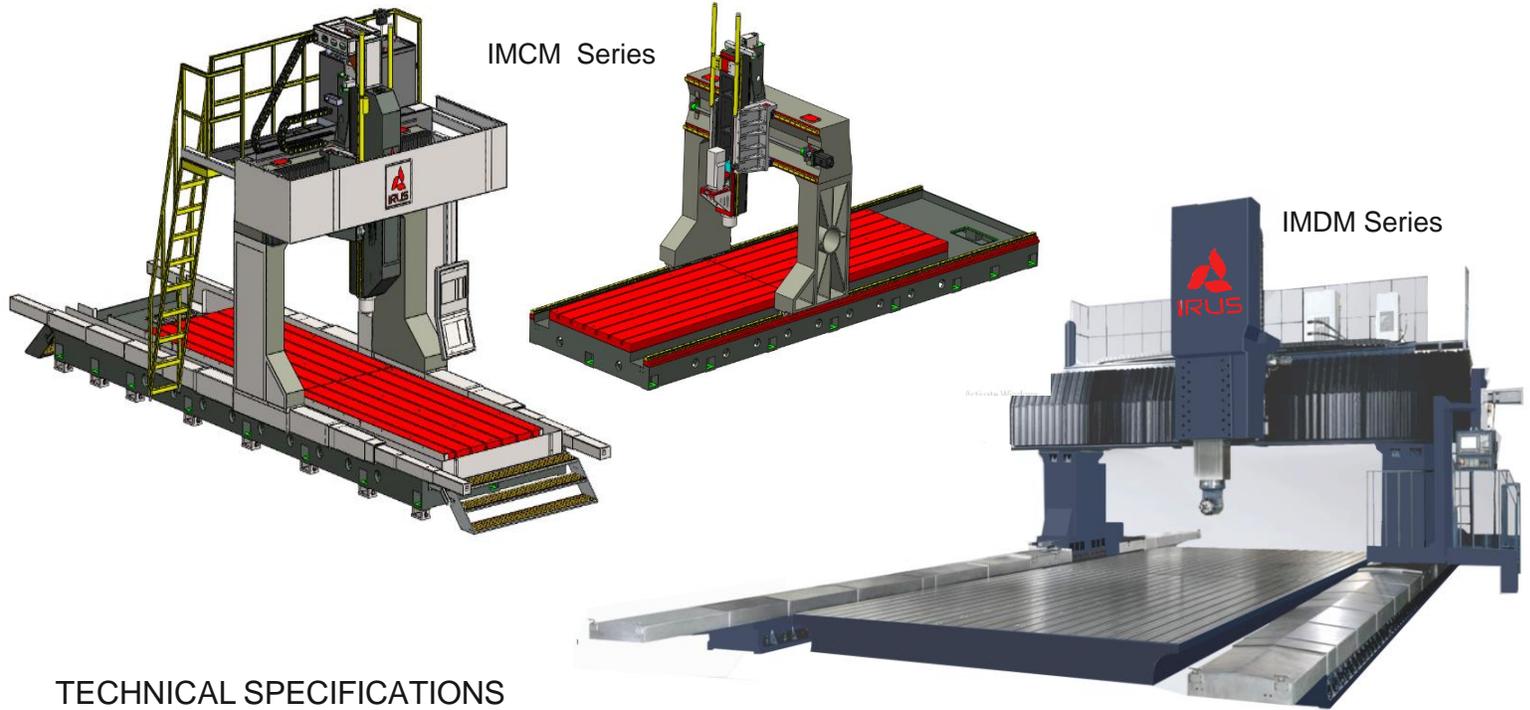


### TECHNICAL SPECIFICATIONS

Items	Unit	IMG 1200	IMG 1600	IMG 2200	IMG 3200
<b>Work Table and Travel</b>					
Table size ( X & Y )	mm x mm	1400 x 1600	1800 x 1600	2400 x 1600	3400 x 1600
Travel ( X )	mm	1200/1600/2200/3200	1600/2200/3200	2200/3200/4200/6200	3200/4200/6200
Travel ( Y / Z )	mm x mm	1200 / 750 (850)	1200 / 850	1200 / 850 (1000)	1200 / 850 (1200)
T-Slot	No. x width	7 x 22 x 160			
Max. Load on Table	Kg	4000	5000	6000	8000
Face to Table Top	mm	150 - 850 (1000)	150 - 850 (1000)	150 - 1000	150-1000 (1000)
<b>Feed</b>					
Rapid (X/Y/Z)	m / min	30/20/20	20/20/20	20/20/20	20/20/20
Feed (X/Y/Z)	m / min	8	8	8	8
Guideway (X/Y/Z)		Linear Roller Guideways			
<b>Spindle</b>					
Spindle Taper / Range	RPM	BT 40 (50)/ 6000/9000		BT 50 / 6000 / (9000)	
Spindle Power	Kw	11 / 15	15 / 18.5	15 / 18.5	18 / 22
Axis Motor (X/Y/Z)	Kw	4 / 3 / 5			
<b>Accuracy</b>					
Positioning (X/Y/Z)	mm	± 0.005 / 300			
Repeatability (X/Y/Z)	mm	± 0.003 / 300			
<b>Tool Storage Capacity</b>	No.	20 / 24 / 30			
<b>CNC Controller</b>		Mitsubishi / Fanuc / Siemens			

# IMCM & IMDM - Series

## Moving Column Machining Center



### TECHNICAL SPECIFICATIONS

Items	Unit	IMCM 1600	IMCM 2200	IMDM 3000	IMDM 4000
<b>Work Table &amp; Travel</b>	mm x mm	6000 x 1600	6000 x 2200	14000 x 3000	12000 x 4000
Travel - X	mm	6000	6000	6000 /10000/12000	6000 /10000/12000
Travel - Y	mm	1600	2200	4000	4000 (5000)
Travel - Z	mm	1000	1000 ( 1200)	1250 (1500)	1250 (1500)
T- Slot	mm	28	28	28	28
Maxi. Load on Table	Kg	3000-6000	3000-5000	10000-16000	10000-16000
Face to Table Top	mm	150-1150	150-1150	550-1800	550-1800
Distance Between Column	mm	2000	2600	4500	5500
<b>Feed</b>					
Rapid (X/Y/Z)	m/min	6/8/8	6/8/8	6/6/6	6/6/6
Feed (X/Y/Z)	m/min	4	4	4	4
Guideway (X/Y/Z)					
<b>Spindle</b>					
Spindle Taper /Dia/ Range	RPM	BT 50 / $\varnothing$ 190 / 6000			
Spindle Power	Kw	30	30	30	30
Axis Motor (X/Y/Z)	Kw				
<b>Accuracy</b>					
Positioning (X/Y/Z)	mm	$\pm 0.07$	$\pm 0.08$	$\pm 0.08$	$\pm 0.08$
Repeatability (X/Y/Z)	mm	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$	$\pm 0.05$
Tool Storage Capacity					
CNC Controller		Mitsubishi / Fanuc / Siemens			

# IMC - Series

## Vertical Machining Center



### TECHNICAL SPECIFICATIONS

Items	Unit	IMC 2500 / (IMCH)	IMC 4500/ (IMCH)	IMC 6500/ (IMCH)	IMC 8500/ (IMCH)
<b>Work Table and Travel</b>					
Table size ( X & Y )	mm x mm	2500 x 500/ (650)	4500 x 500/(650)	6500 x 500/(650)	8500 x 500/(650)
Travel ( X )	mm	2500	4500	6500	8500
Travel ( Y / Z )	mm x mm	450(580) / 500	450(580) / 500	450(580) / 500	450(580) / 500
T-Slot	No. x width	5 x 18 x 100			
Max. Load on Table	Kg	2500	3500	4500	5500
Spindle Face to Table Top	mm	100 - 600 / (150 - 650)			
<b>Feed</b>					
Rapid (X/Y/Z)	m / min	60 / 28 / 28			
Guideway (X/Y/Z)		Linear Roller Guideways			
<b>Spindle</b>					
Spindle Taper / Range	RPM	BT 40 /10000 / (BT 50 /9000)			
Spindle Power	Kw	7.5 /11 ( 11/15) (18/22)			
Axis Motor (X/Y/Z)	Kw	2 / 2 / 3			
<b>Accuracy</b>					
Positioning (X/Y/Z)	mm	± 0.005 / 300			
Repeatability (X/Y/Z)	mm	± 0.003 / 300			
<b>Tool Storage Capacity</b>	No.	12 / 20 / 24 /30			
<b>CNC Controller</b>		Mitsubishi / Fanuc / Siemens			

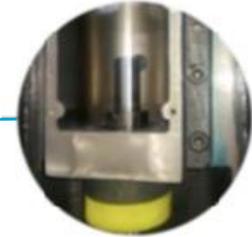
# IMV - Series

Vertical Machining Center

We are using Pragati / Deta  
Make ATC



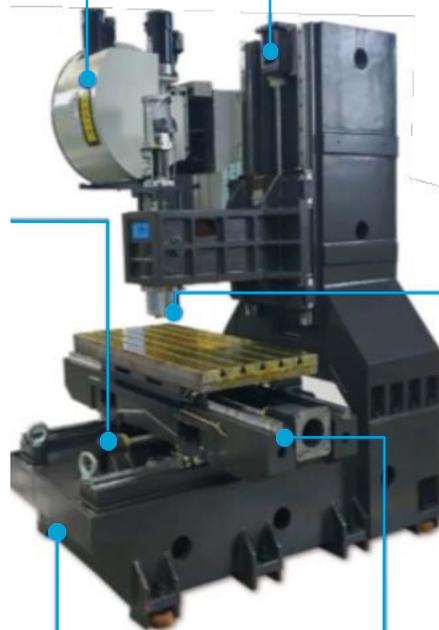
We are using Fanuc / Mitsubishi / Fagor  
Siemens CNC Control / Servo Motors on  
all 3 Axis



Using C3 class precision ball  
Screws with proper  
pre-stretching



We use top brand Taiwanese  
Spindle in our Machine



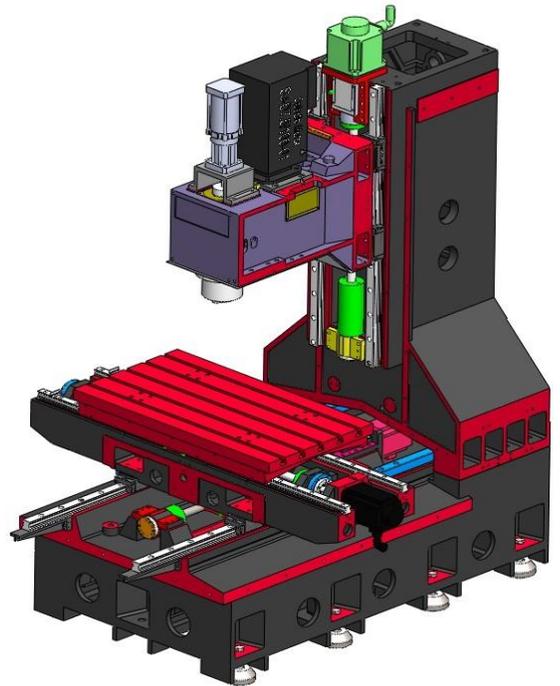
Using German / Taiwan Make  
Guide rails.



The Main Frame is made up of High Grade Cast Iron.  
Enlarge distance between guide ways for optimised  
machine performance.

# IMV - Series

## Vertical Machining Center

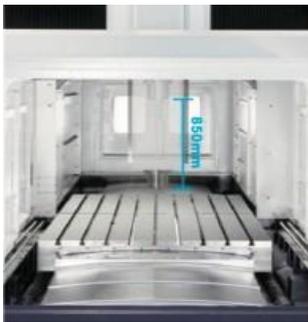


### TECHNICAL SPECIFICATIONS

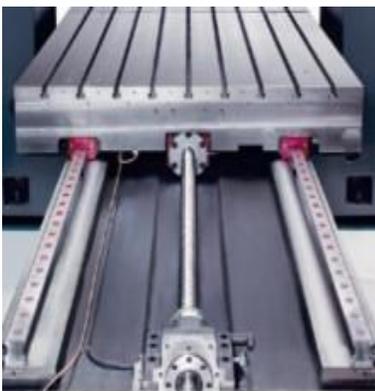
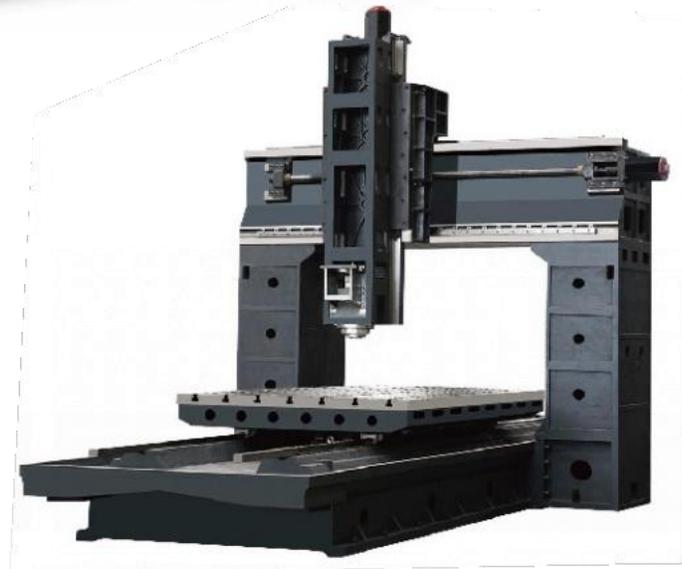
Items	Unit	IMV - 650	IMV - 855	IMV - 1160	IMV - 1375
<b>Work Table and Travel</b>					
Table size ( X & Y )	mm x mm	800 x 500	1000 x 550	1300 x 600	1500 x 750
Travel ( X )	mm	600	850	1100	1300
Travel ( Y / Z )	mm x mm	500/500	550/500	600/600	750/750
T-Slot	No. x width	4 x 18 x 100	5 x 18 x 100	5 x 18 x 100	5 x 18 x 100
Max. Load on Table	Kg	500	700	1000	1500
Spindle Face to Table Top	mm	100-500	150-700	150-750	150-900
<b>Feed</b>					
Rapid ( X/Y/Z )	m / min	30/30/20	30/30/20	30/30/20	20/20/15
Guideway ( X/Y/Z )		Linear Roller Guideways			
<b>Spindle</b>					
Spindle Taper / Range	RPM	BT 40 / 9000	BT 40/ 9000	BT 40 / 9000	BT 40 (50) / 9000
Spindle Power	Kw	5.5/7	7.5/11	7.5/11	11/15
Axis Motor ( X/Y/Z )	Kw	2 / 2 / 3			
<b>Accuracy</b>					
Positioning ( X/Y/Z )	mm	± 0.005 / 300			
Repeatability ( X/Y/Z )	mm	± 0.003 / 300			
<b>Tool Storage Capacity</b>	No.	20 / 24			
<b>CNC Controller</b>		Mitsubishi / Fanuc / Siemens			

# IMD - Series

Double Column Vertical Machining Center



All our double column are standardly equipped with Z-Axis stork of 850mm.



In Y-Axis is dual guide ways supported by step design, it allows for vertical & horizontal arrangement with higher rigidity than normal set-ups.



A properly preloaded and pretensioned, large diameter ballscrew is used for all 3 axis

# IMD - Series

Double Column Vertical Machining Center

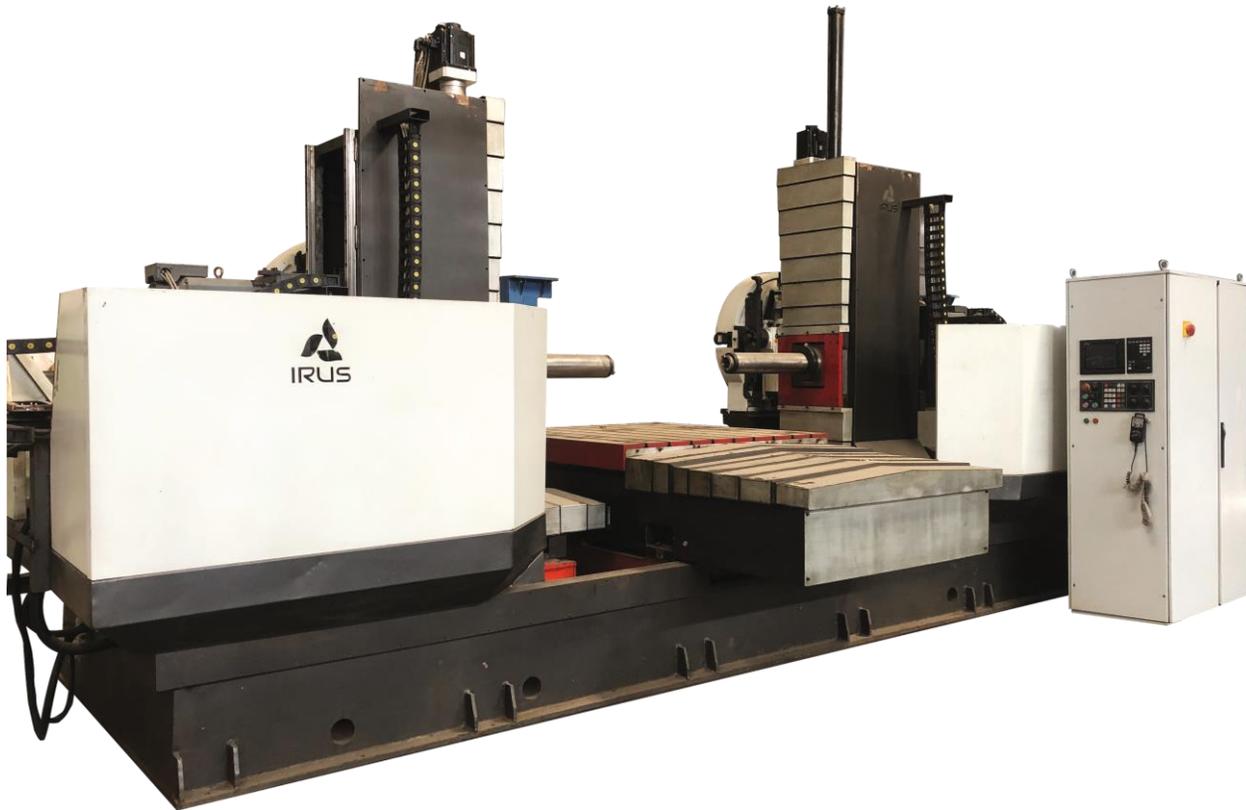
## TECHNICAL SPECIFICATIONS

ITEMS	UNIT	IMD1180	IMD1410	IMD1612
Table Size	mm	1050 x 800	1600 x 1000	1600 x 1000
T-Slots	(No.x Width)	18	18	22
X Axis Travel	mm	1100	1400	1600
Y Axis Travel	mm	800	1000	1200
Z Axis Travel	mm	600	600	750 ( 850)
Distance from Spindle Nose to Table Centre	mm	150-750	150-750	150-900 (1000)
Distance Between Columns	mm	1100	1100	1200
Max Loading Capacity	Kg	1200 Kgs	3200	3200
X Axis Rapid	m/min	32	32	20
Y Axis Rapid	m/min	32	32	20
Z Axis Rapid	m/min	20	20	15
Spindle Motor	Kw	11/15/18.5	11/15/18.5	15/18.5
Max Spindle Speed	RPM	10000 ( 12000)	10000(12000)	6000
ATC		BBT40	BBT40	BT 50
Tool Storage		20/24	20/24	20/24
Weight	Kg	7800	10500	16000
Controller		Mitsubishi / Fanuc / Siemens		

ITEMS	UNIT	IMD1614	IMD2820	IMD3027
Table Size	mm	1600 x 1200	2800 x 1800	3000 x 2000
T-Slots	(No.x Width)	22	28	28
X Axis Travel	mm	1600	2800	3000
Y Axis Travel	mm	1400	2000	2700
Z Axis Travel	mm	750( 850)	1000 (1100)	1000 (1100)
Distance from Spindle Nose to Table Centre	mm	150-900(1000)	1000 (1100)	1000 (1100)
Distance Between Columns	mm	1300	2000	2300
Max Loading Capacity	Kg	3200	5000	10000
X Axis Rapid	m/min	20	15	15
Y Axis Rapid	m/min	20	15	15
Z Axis Rapid	m/min	15	15	15
Spindle Motor	Kw	15/18.5	15/18.5	15/18.5
Max Spindle Speed	RPM	6000	6000	6000
ATC		BT 50	BT 50	BT 50
Tool Storage		24	24	24
Weight	Kg	17000	26000	40000
Controller		Mitsubishi / Fanuc / Siemens		

# IMH - Series

Horizontal Machining Center



## TECHNICAL SPECIFICATIONS

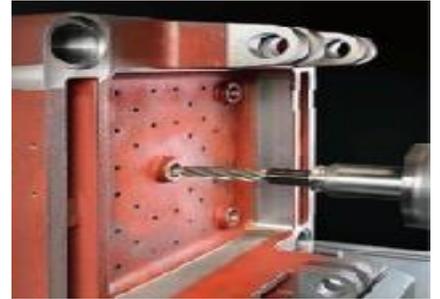
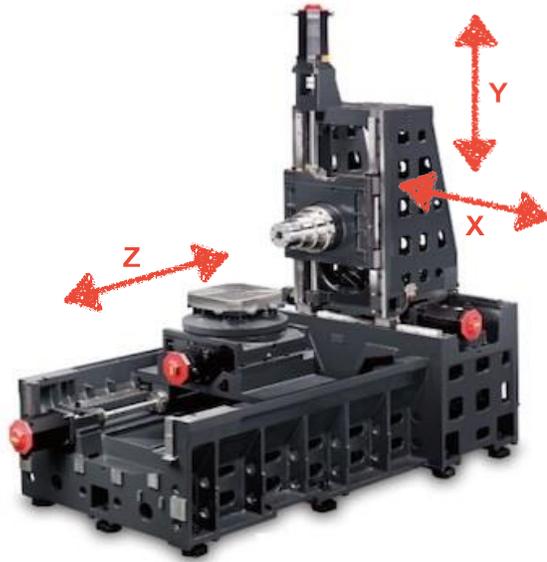
Items	UNIT	IMH 500	IMH 5000	IMH 6300	IMH 8000	IMH 1850
Pallet Size	mm	500 x 500	500 x 500	630 x 630	800 x 800	2000 x 1200
X Axis Travel	mm	850	850	1100	1450	1800
Y Axis Travel	mm	700	700	850	1050	700
Z Axis Travel	mm	850	850	1000	1200	500
Distance from Spindle Nose to Table Centre	mm	100-950	100-950	100-1100	150-1350	100 - 600
Max Loading Capacity	Kg	800	800	1000	1800	3000
X Axis Rapid	m/min	30	30	30	24	10
Y Axis Rapid	m/min	30	30	30	24	10
Z Axis Rapid	m/min	30	30	30	24	10
Pallet Type		24-M16 x P2.0	24-M16 x P2.0	24-M16 x P2.0	24-M16 x P2.0	Optional
Max Spindle Speed	RPM	9000	6000	6000	6000	3000
ATC		BT 40	BT 50	BT 50	BT 50	HSK 100 A / BT 50
Tool Storage	KWA	24	24	24	24	N/A
Spindle Motor		11/15	15/18.5	15/18.5	15/18.5	18
Power Supply	KVA	30	35	40	40	
Weight	Kg	12000	12000	18000	22000	
Controller	Mitsubishi / Fanuc / Siemens					

- HMC combine high rigidity structure, heavy duty load capacity rotary table and a high torque spindle or high speed spindle along with our professional assembly and hand scraping skills.
- HMC can easily overcome most stringent requirements of not only deep hole drilling & boring but high precision mold milling which meet your various needs for today and the future.
- HMC provide better chips removal ability.
- HMC precision quality and superior performance are designed to meet aerospace industry, transportation equipment, energy industry large parts machining and mold machining needs.

# IMH - Series

Horizontal Machining Center

## DOUBLE



Reliable ATC System



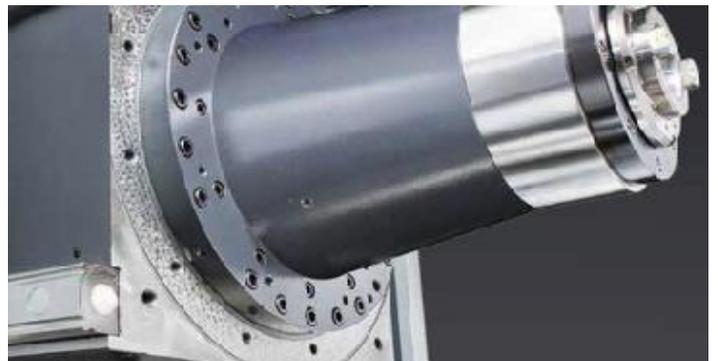
Rotary with 0.001 Degree



Fixed Spindle - ZT



RAM Type Spindle - ZS



# IVT - Series

Vertical Turning Center



SPECIFICATION	UNIT	MT 500	MT 830
Swing Over Bed	mm	600	900
Std. Turning Diameter	mm	300	390
Max Turning Diameter	mm	500	830
Max Turning Length	mm	460	750
X Axis Travel	mm	268	495
Z Axis Travel	mm	488	780
Chuck Size	Inch	12	15
Rapid X Axis	m/min	20	20
Rapid Z Axis	m/min	24	20
Max Spindle Speed	RPM	3000	2000
Spindle Nose		A2-8	A2-11
No. of Tool Station		12	12
OD Tool Size	mm	25	32
Spindle Motor	Kw	18.5/22	18.5/22
Power Supply	KVA	40	45
Weight	Kg	5000	8500
Controller		Mitsubishi / Fanuc / Siemens	

# IMB - Series

Horizontal Boring Center

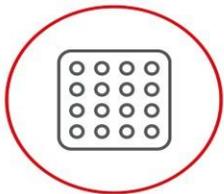


SPECIFICATION	UNIT	IMB 110	IMB 130
Pallet size	mm	1400 x 1600	1400 x 1600
X Axis Travel	mm	2010	2010
Y Axis Travel	mm	1500	1500
Z Axis Travel	mm	1200	1200
W Travel	mm	500	600
Distance from Spindle Nose to Table Centre	mm	500-1700	550-1800
Max Loading Capacity	Kg	7000	8000
X Axis Rapid	m/min	10	10
Y Axis Rapid	m/min	10	10
Z Axis Rapid	m/min	10	10
Boring Spindle Diameter	mm	110	130
Max Spindle Speed	RPM	3000	3000
ATC		BT 50	BT 50
Tool Storage		24	24
Spindle Motor	Kw	18.5/22	18.5/22
Controller		Mitsubishi / Fanuc / Siemens	

# Accessories ...

STANDARD ACCESSORIES :	OPTIONAL ACCESSORIES :
Levelling Bolts and Blocks	Spindle Oil Cooler
LED Work Light	Rotary Table Interface
3 Color Signal Tower	Chip Conveyor
Air & Coolant Gun	Linear Glass Scale
Centralised Automatic Lubrication System	Auto Tool Measurement
MPG Microwave Pulse Generator	Auto Workpiece Measurement
Coolant System	Flush Coolant
Tool Box	Coolant Through Spindle
Panel AC	Screw Type Chip Conveyor
Electronic Hand Wheel	Chain Type Chip Conveyor
Cycling Cooling System	
Spindle Blowing System	
Hydraulic Station	
Nitrogen Balancing System	
Transformer	
USB and CF Card	
Half Machine Cover	
End of Program Light	

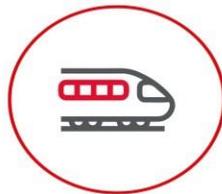
## Solution for Every Industry...



**Molds & Dies**



**Pharmaceuticals**



**Railways**



**Oil & Gas**



**Agriculture**



**Aeronautics**



**Construction**



**Energy**



**Naval**



**Defence**

# Our Valued Customer ...



SHRIRAM  
PISTONS & RINGS LTD.



IIT Delhi  
Indian Institute of Technology Delhi



Asahi India Glass Ltd.



KNORR-BREMSE



TRELLEBORG



name a few ...



## ABOUT IRUS

**IRUS** Engineering Pvt. Ltd is a fast growing renowned organization providing optimized end to end Manufacturing and Machining Solutions via range of its CNC Machining Centers (3,4 & 5 axis) - Vertical Machining Centers, Horizontal Machining Centers , Gantry Type VMC, Double Column Type VMC, CNC Horizontal Boring Mills, CNC Long Travel Moving Column Machining Center, CNC Vertical Turning Centers and Grinding Machines.

## PRESENCE

Based in Ghaziabad, we have three units offering end to end solutions for manufacturing industry.

## COMMITMENT

Delivering value to our costumers in terms of Quality & Services.

## CREDENTIALS

- All units are ISO 9001 certified

## FACILITIES

- State of art machining setup to ensure precision in product.
- Our Machine Tool Division, established in 2006, manufacturers CNC Machining Center and SPM for wide range of industries.
- Service and training help customers optimize productivity and maintain superlative quality.

## TECHNOLOGY

- We keep abreast of Technology worldwide and invest strategically to ensure our manufacturing facilities are top of the line.
- An R & D focus underscores our commitment to innovative Technology and continuous upgradation of Technology to insure top of the line manufacturing facilities.

## PEOPLE

- Our strength lies in involvement of committed team, through motivation & training. Continuous motivation and training, maintains the team to dynamic market requirements & responsive to customer needs.

## SALES & SERVICE NETWORK - INDIA

- Highly trained team of professional service engineers available 365days.
- Online Service Request management integrated with state of the art CRM.

Manufactured By:



**IRUS** Engineering Pvt Ltd

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