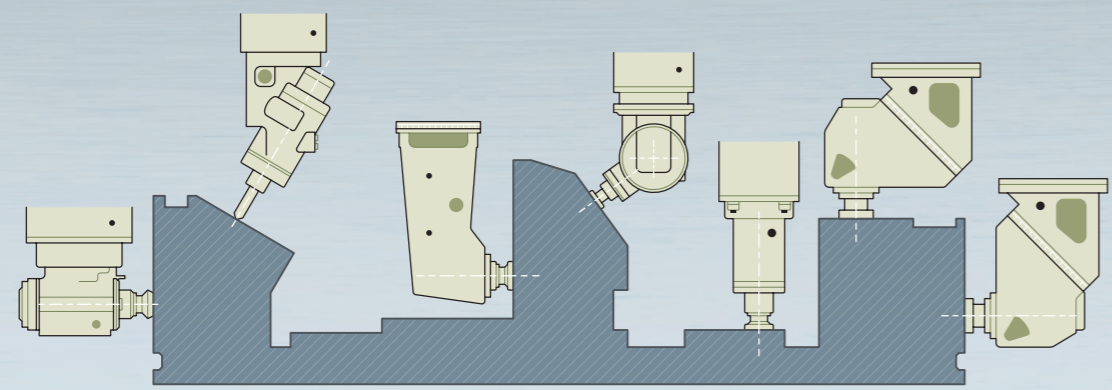


Quality, Credibility, Innovation, Service



5 Face milling head

5 axis Simultaneous milling head

Auto 5 Face machining function

Auto 90° milling head

Auto A/C swiveling head



CNC FIXED TABLE

HRP • HDT • SD • SDW • GM



2015, December



FIXED TABLE { Fixed Cross-Rail (**HRP, HDT, SD**)
Moving Cross-Rail (**SDW, GM**)

Distance between Columns



HRP

HIGH RIGID PRECISION DOUBLE COLUMNS MACHINING CENTER

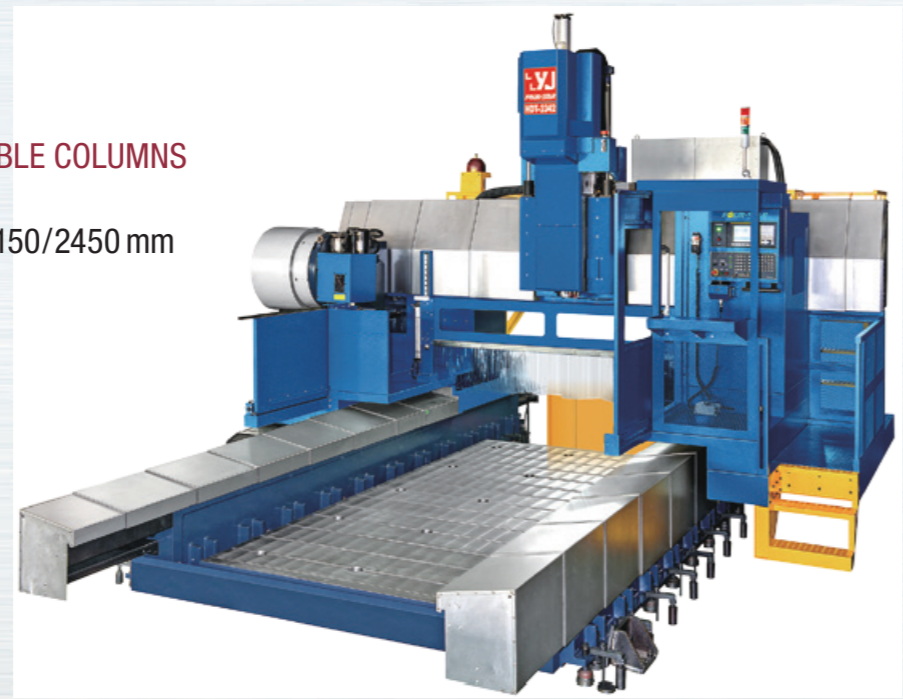
Between Columns : 1350 mm
X - Travel : 2 ~ 20 m
Z - Travel : 800 mm



HDT

MEDIUM TRAVELLING DOUBLE COLUMNS MACHINING CENTER

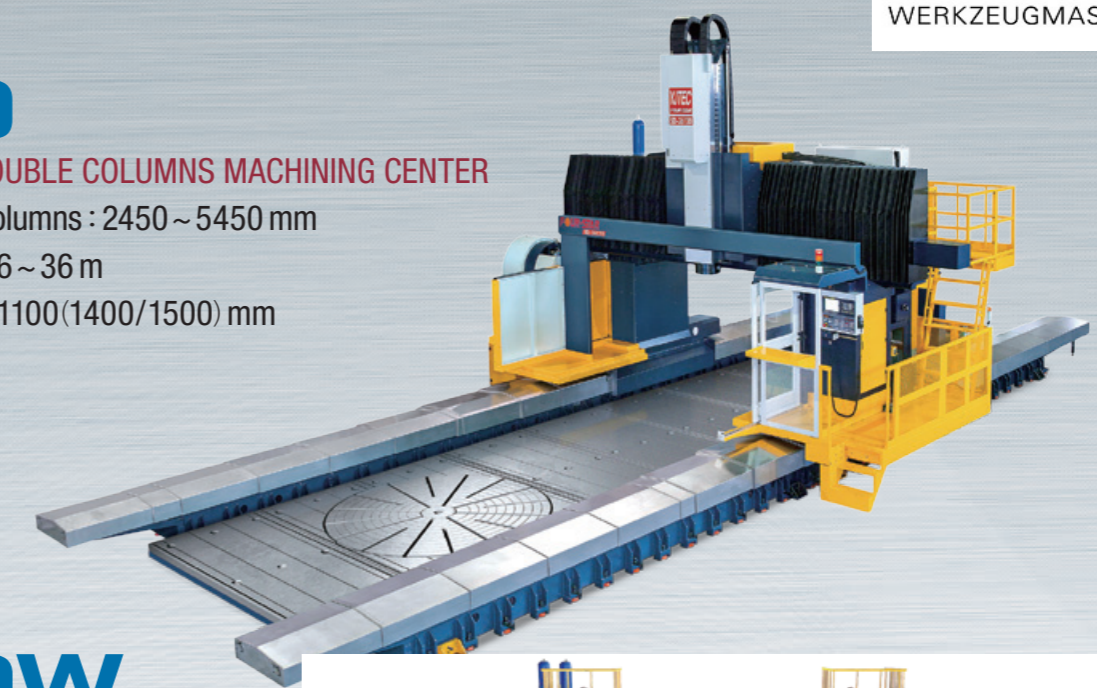
Between Columns : 1850/2150/2450 mm
X - Travel : 2 ~ 20 m
Z - Travel : 800(1100) mm



SD

SLIDING DOUBLE COLUMNS MACHINING CENTER

Between Columns : 2450 ~ 5450 mm
X - Travel : 6 ~ 36 m
Z - Travel : 1100(1400/1500) mm



SDW

W-TYPE SLIDING DOUBLE COLUMNS MACHINING CENTER

Between Columns : 2450 ~ 5450 mm
X - Travel : 6 ~ 36 m
Z - Travel : 800(1100/1400) mm
W - Travel : 1000/1500/2000 mm



GM

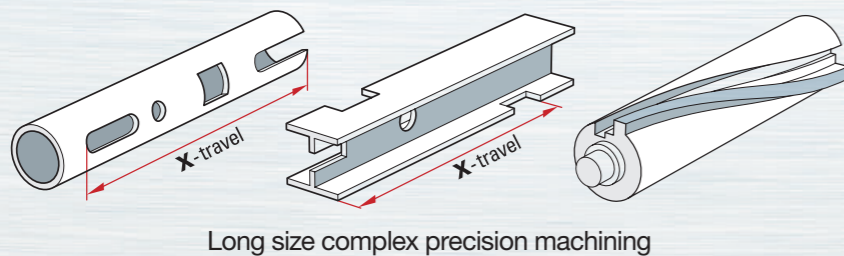
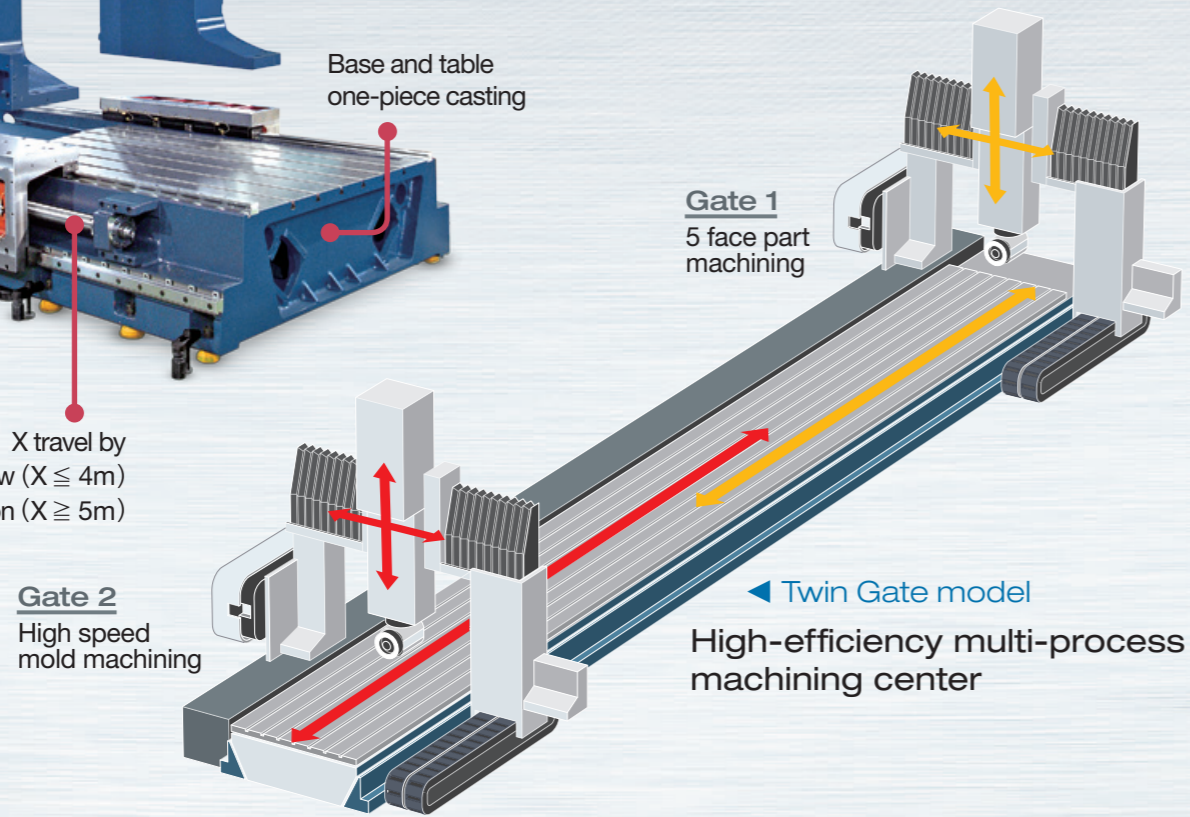
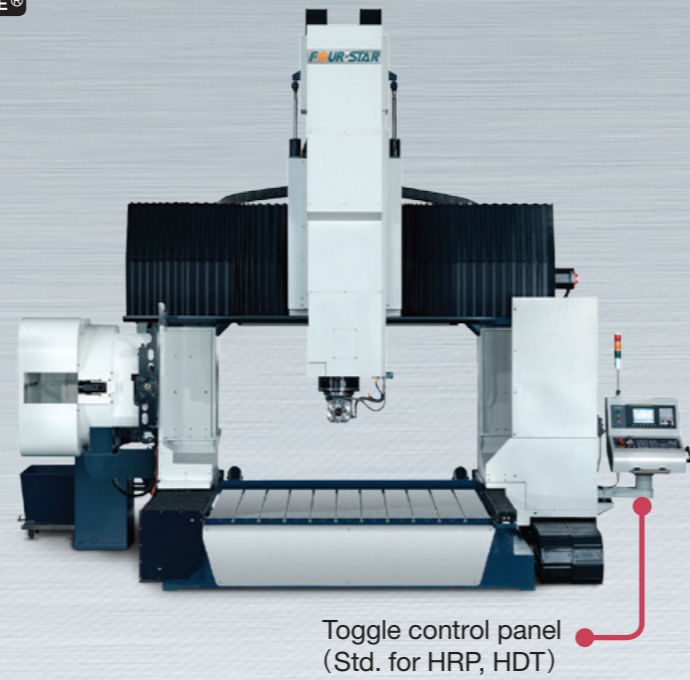
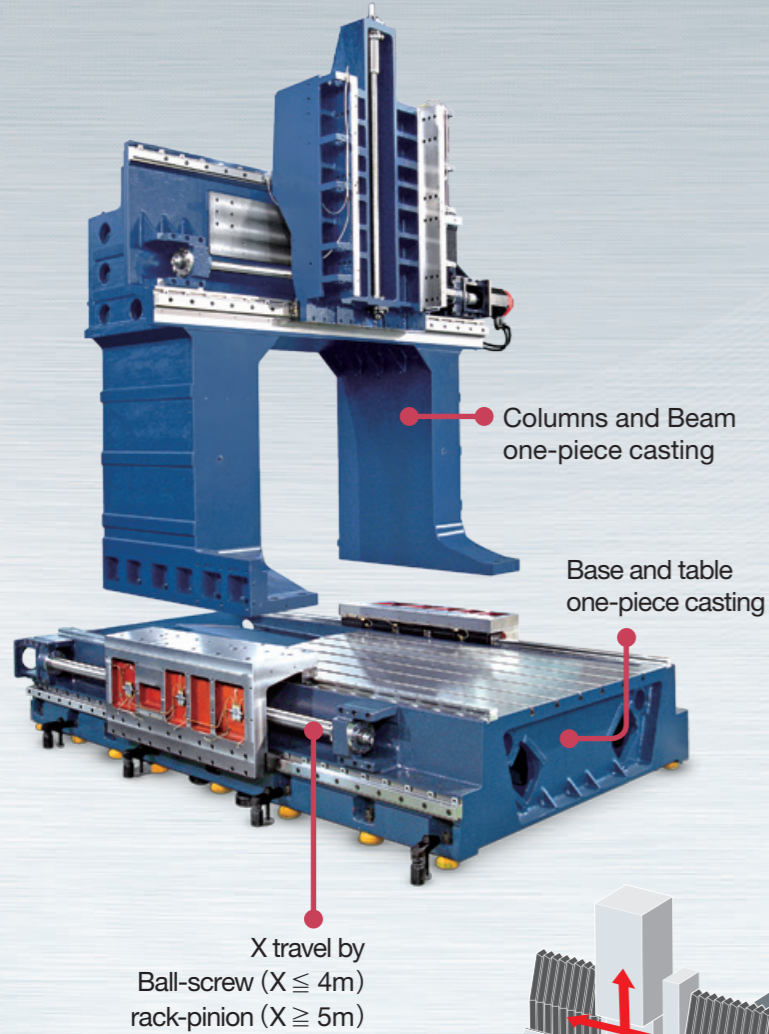
GANTRY TYPE MACHINING CENTER

Between Walls : 3350 ~ 7050 mm
X - Travel : 6 ~ 36 m
Z - Travel : 1100(1400/1500) mm



HRP series

HIGH RIGID PRECISION D.C.M.



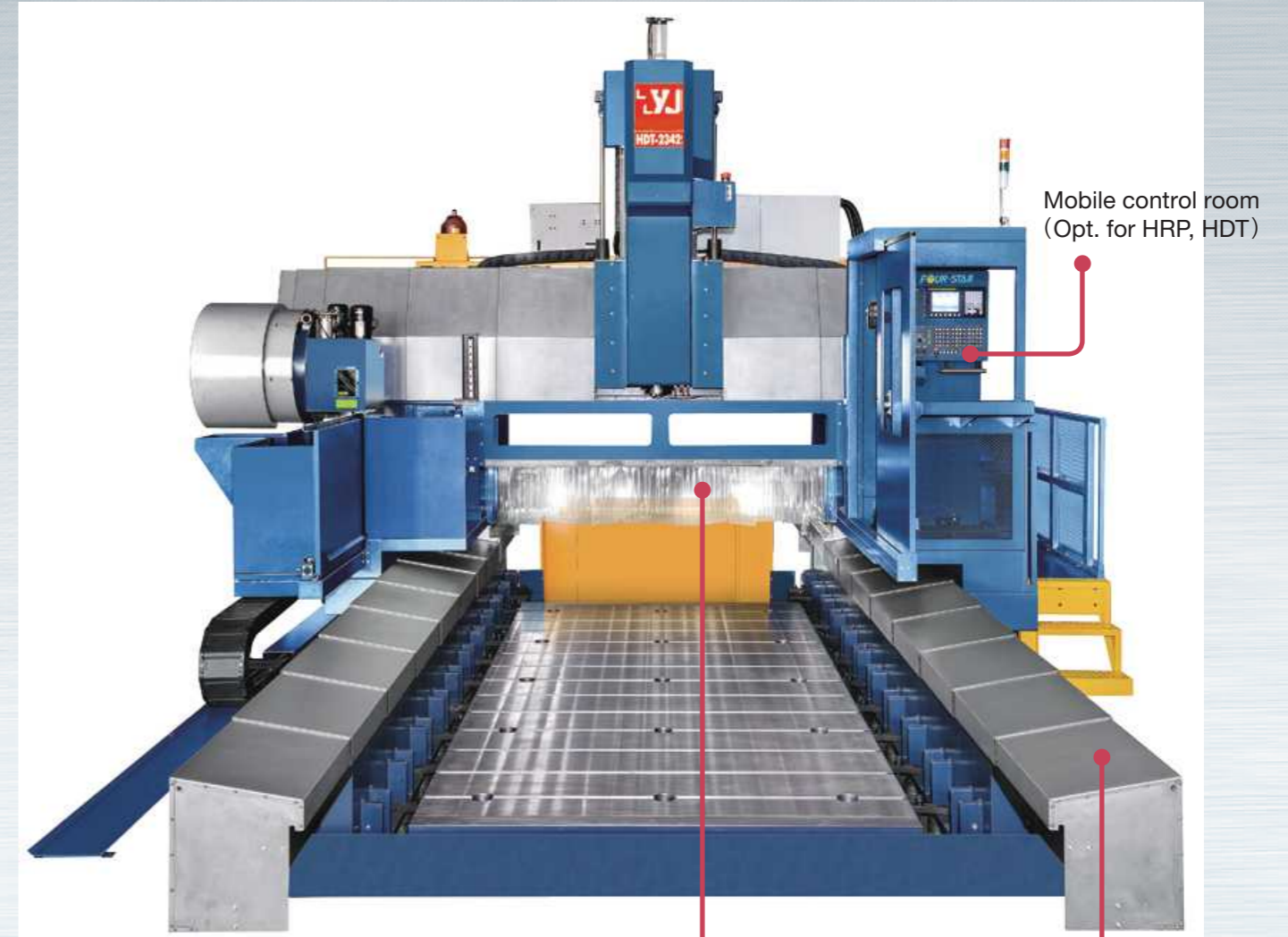
MODEL INFO

HRP-1390-2G

- Twin gates
- X travel 9 m
- Between Columns 1350 mm
- High Rapid Precision

HDT series

MEDIUM TRAVELLING D.C.M.



Auto Head exChanger (AHC)



MODEL INFO

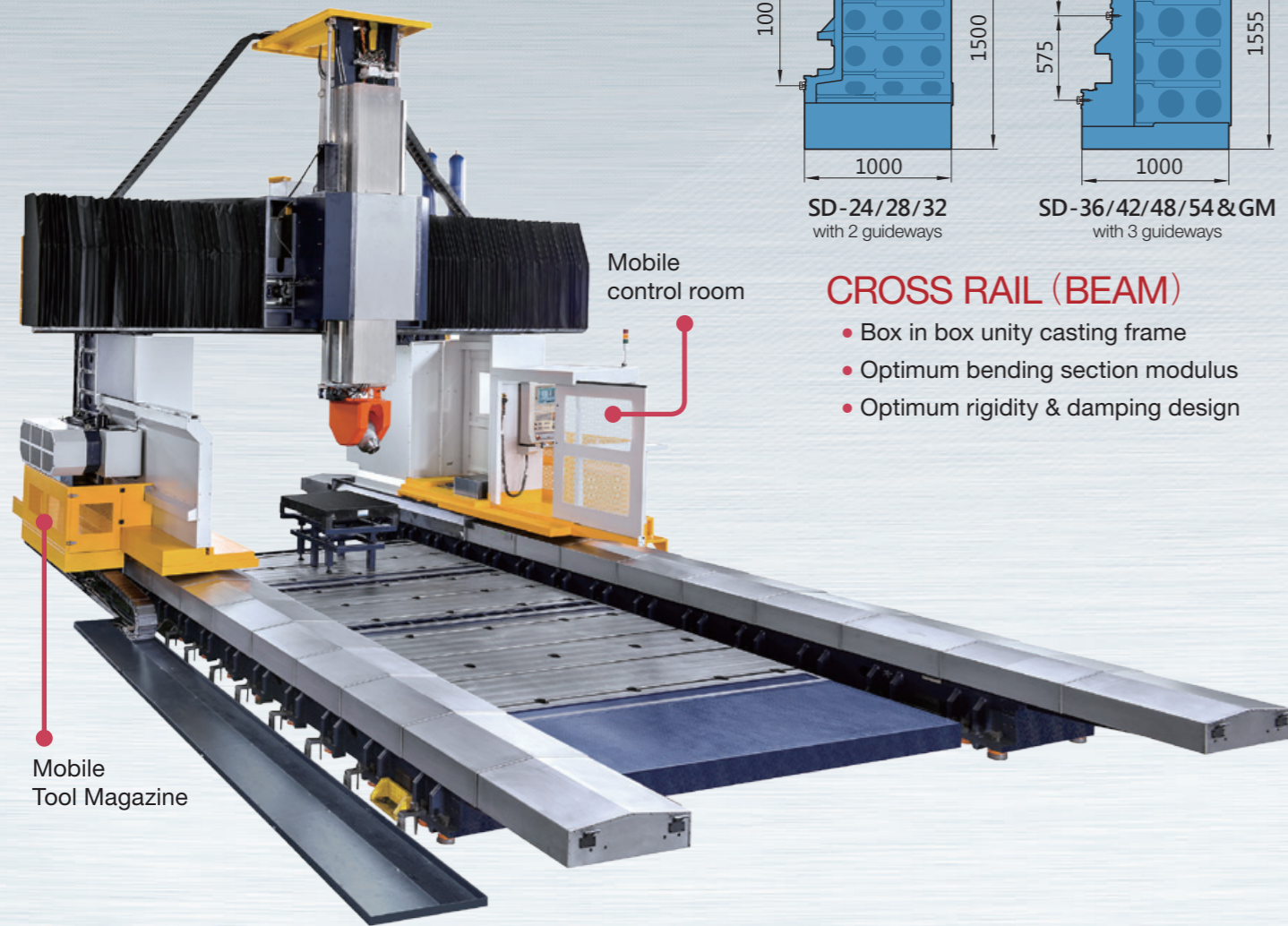
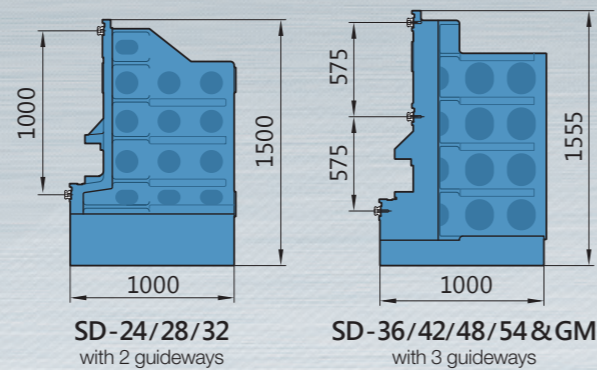
HDT-2480-5F

- Five Face milling
- X travel 8 m
- Between Columns 2450 mm
- High speed Milling, Drilling & Tapping

SD series

SLIDING DOUBLE COLUMNS MACHINING CENTER

Optimal Rigidity

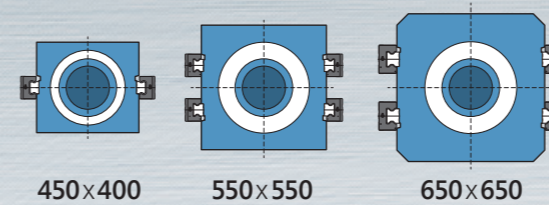


CROSS RAIL (BEAM)

- Box in box unity casting frame
- Optimum bending section modulus
- Optimum rigidity & damping design

GM series

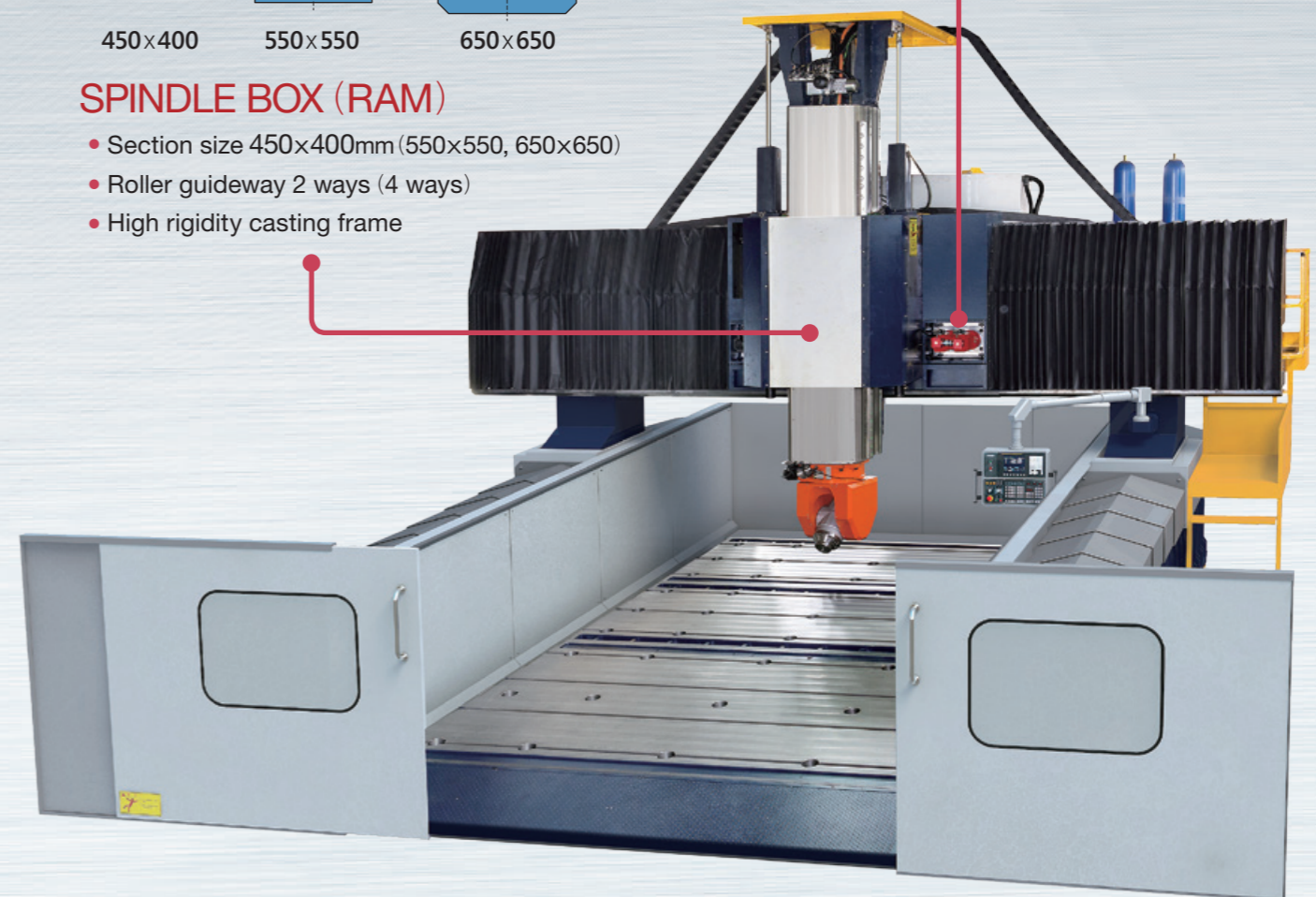
GANTRY MACHINING CENTER



SPINDLE BOX (RAM)

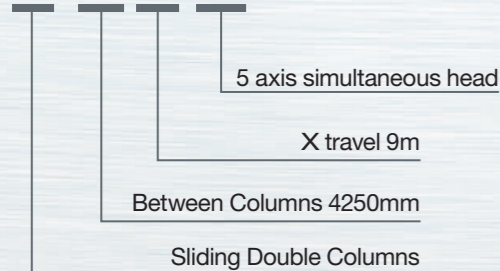
- Section size 450x400mm (550x550, 650x650)
- Roller guideway 2 ways (4 ways)
- High rigidity casting frame

Y travel by rack pinion
SD(W)-48 and up & GM-45 and up

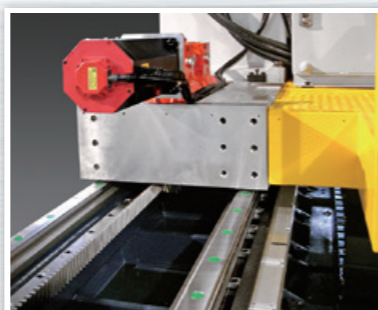


MODEL INFO

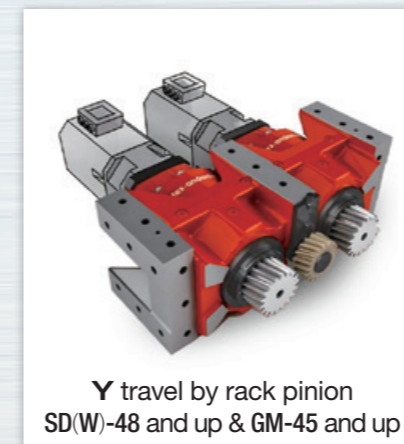
SD-42 90-5A



Column & Slider one piece casting



X travel by rack pinion servo control (2 pcs)

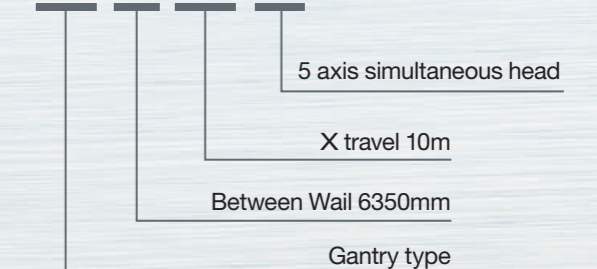


Y travel by rack pinion
SD(W)-48 and up & GM-45 and up



MODEL INFO

GM-63 100-5A



SDW series W-type

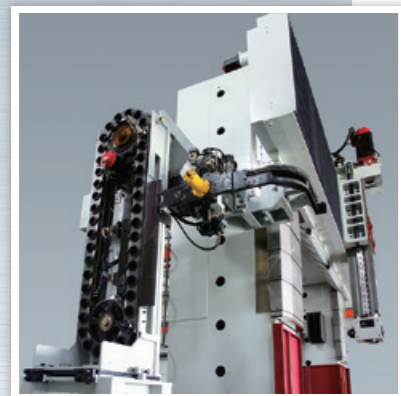
W-TYPE SLIDING DOUBLE COLUMNS MACHINING CENTER



MODEL INFO
SDW-48220

W type Moving Cross-Rail
Sliding Double Columns

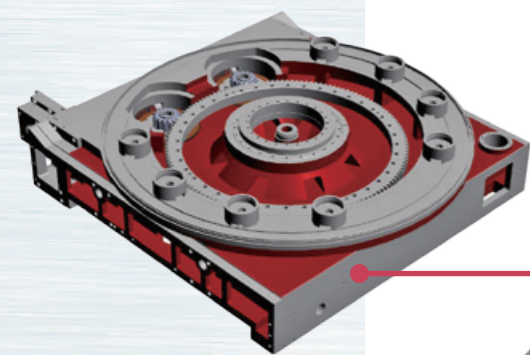
X travel 22m
Between Columns 4850 mm



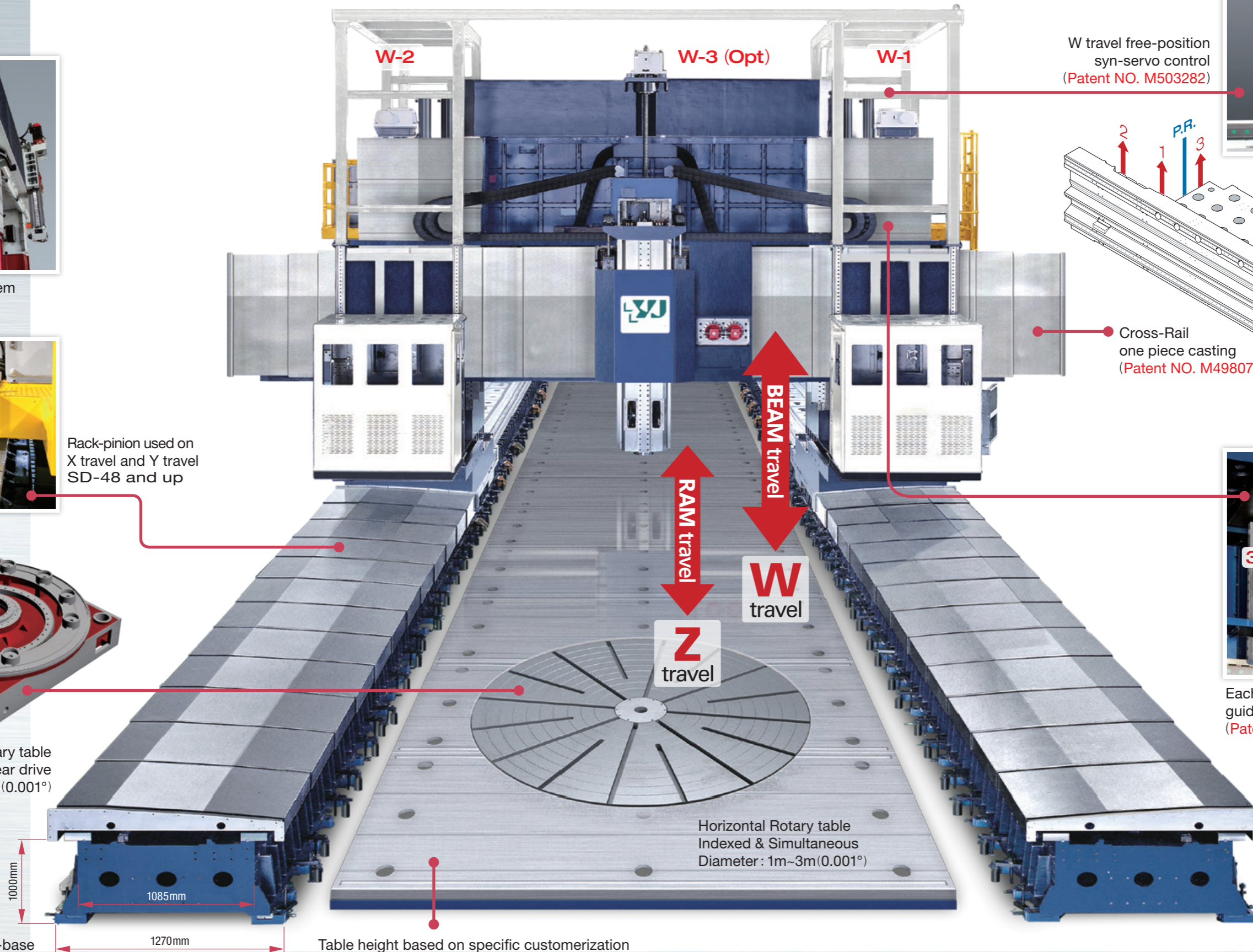
Free position ATC system
(Patent NO. M503282)



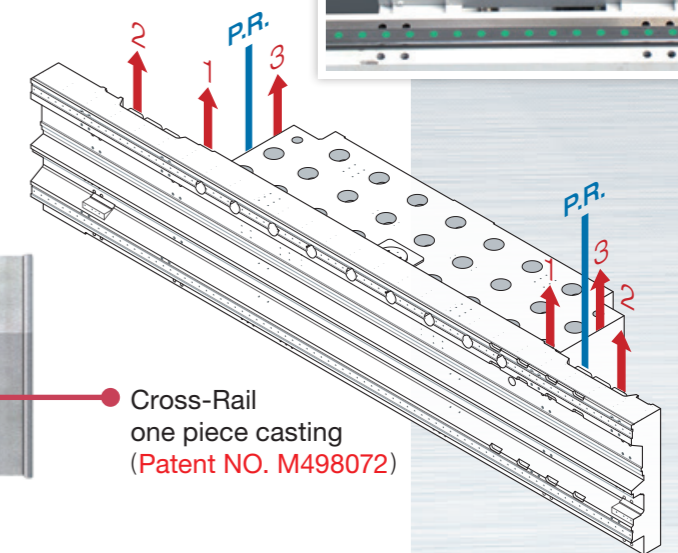
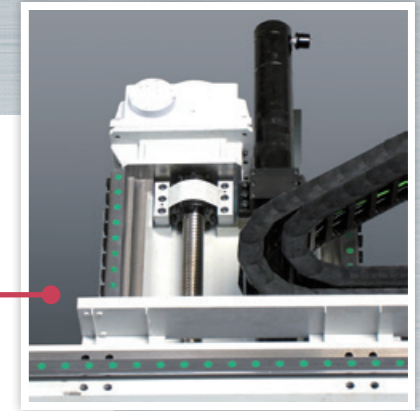
Rack-pinion used on X travel and Y travel SD-48 and up



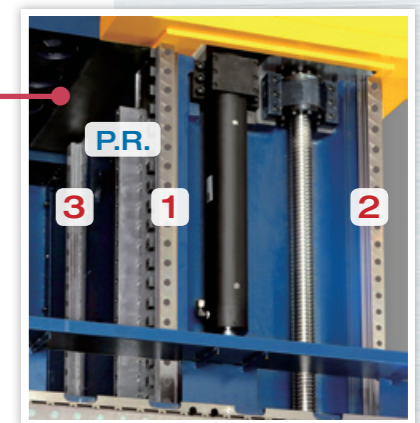
Built-in or Removable rotary table with worm shaft-gear drive
Diameter: 1m~3m(0.001°)



W travel free-position syn-servo control
(Patent NO. M503282)



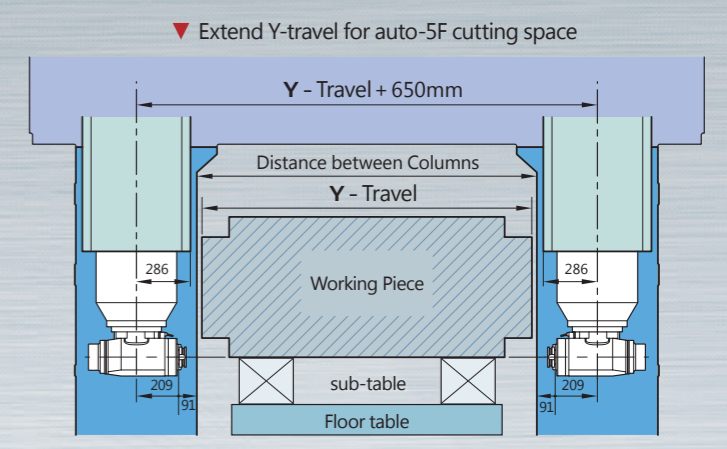
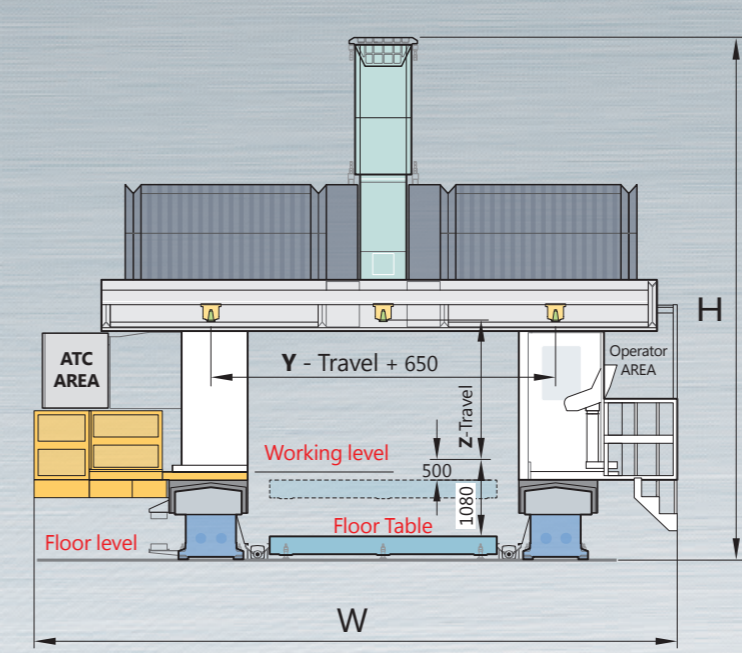
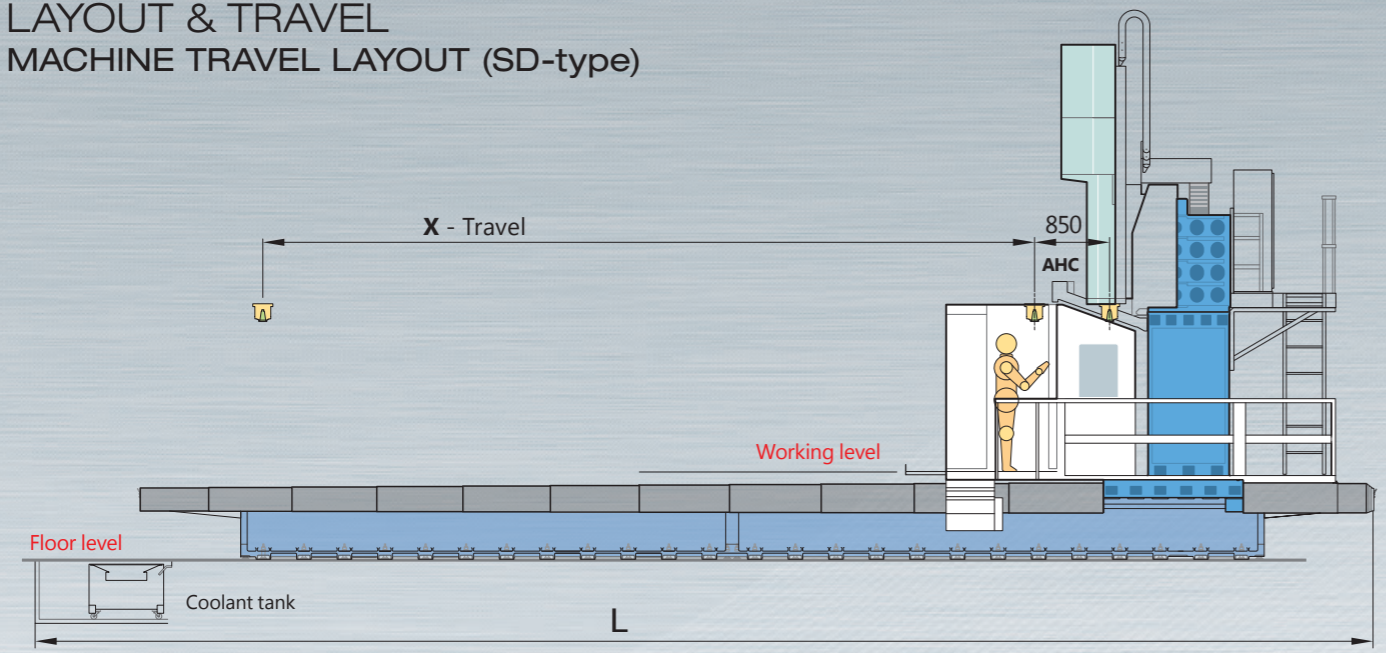
Cross-Rail one piece casting
(Patent NO. M498072)



Each column with 3 linear guide-ways and 1 position rail (P.R.)
(Patent NO. M511389)

LAYOUT & TRAVEL

MACHINE TRAVEL LAYOUT (SD-type)



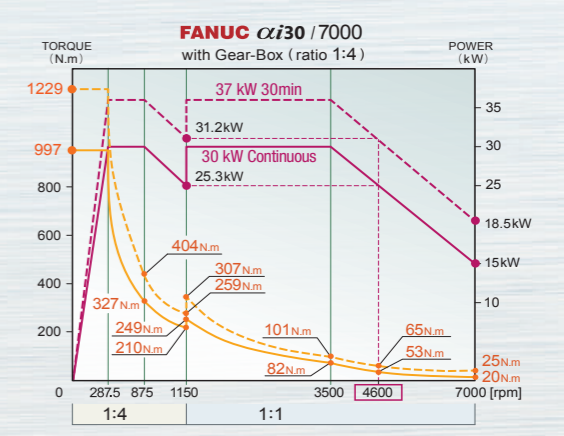
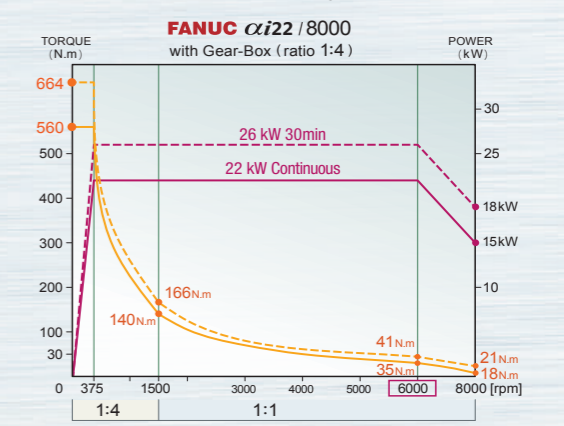
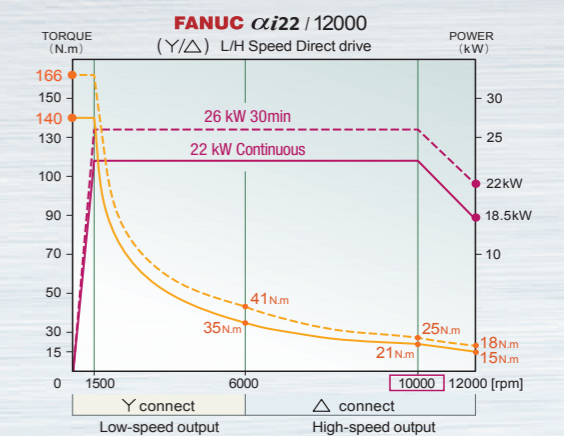
• SPECIFICATION Fixed Table type Double Columns Machining Center

Model	Unit	HRP-13	HDT-18	HDT-21	HDT-24	SD-24 SDW-24	SD-28 SDW-28	SD-32 SDW-32	SD-36 SDW-36	SD-42 SDW-42	SD-48 SDW-48	SD-54 SDW-54	
Between Columns	mm	1350	1850	2150	2450	2450	2850	3250	3650	4250	4850	5450	
Travel	X-Travel	2m ~ 20m Every 1m add				6m ~ 36m Every 1m add							
	Y-Travel	1300	1800	2100	2400	2400	2800	3200	3600	4200	4800	5400	
	Z-Travel	800	800(1100)			SD:1100(1400)	SDW:1100	SD:1100(1400/1500)		SDW:1100(1400/1500)			
	W-Travel	mm	N/A				1500 / 2000 for SDW series						
Table	Table wide	1000	1200	1500	1800	1600	2000	2400	2800	3400	4000	4600	
	Table length	m	Table length = X Travel				Table length = X Travel						
Spindle nose to table	mm	220~1020	555~1355			SD:1080~2180(1020~2420) SDW:800~800+Z+W							
Power-speed	kW	18.5/22 - 6000 rpm				22/26 - 6000 rpm							
X axis rack-pinion	-	X ≥ 5m	X ≥ 5m	X ≥ 5m	X ≥ 5m	○	○	○	○	○	○	○	
Y axis rack-pinion	-	×	×	×	×	×	×	×	×	×	○	○	
ATC Capacity	pcs	24 pcs				32 pcs							
X / Y / Z / W Feed rate G00	m/min	15/15/12				12/12/10/1				10/10/10/1			
Machine size	Length	6.5m ~ 23.5m Every 1m add				13.5m ~ 43.5m Every 1m add							
	Width	4.5	5.9	6.2	6.5	6.5	6.9	7.3	7.7	8.1	8.5	8.9	
	Height	4.6	4			SD:6.5 / SDW:7.2							
Machine Weight (app.)	ton	18+2/m	20+1.5/m	22+2/m	24+2.5/m	50+2/m	53+2.3/m	56+2.5/m	60+3/m	65+3.3/m	70+3.5/m	75+3.8/m	

Specifications subject to change without notice.

GM-33	GM-39	GM-45	GM-51	GM-57	GM-63	GM-70
3350	3950	4550	5150	5750	6350	7050
6m ~ 36m Every 1m add						
2600	3200	3800	4400	5000	5600	6300
1100(1400/1500)						
N/A						
2800	3400	4000	4600	5200	5800	6500
Table length = X Travel						
500~500+Z						
22/26 - 6000 rpm						
○	○	○	○	○	○	○
×	×	○	○	○	○	○
32 pcs						
15/10/10						
15m ~ 45m Every 1m add						
8.3	8.9	9.5	10.1	10.7	11.3	12
5.4						
65+5/m	68+2/m	70+2.5/m	75+3/m	80+3.5/m	85+4/m	90+4.5/m

• POWER CAPABILITY



• Standard Accessories

- FANUC 0iMF + 10.4" LCD
- Spindle and Gear-box cooler
- Spindle air blast
- Cutting coolant system
- Auto lubrication system
- Rigid tapping
- Electric cabinet heat exchanger
- Program end alarm lamp
- Ethernet/USB/RS232 interface
- GTP 2G250 H/L gearbox
- Air/ Water cleaning equipment
- Twin spiral type chip remover
- Steel belt chip conveyor with cart
- Working lamp & Tool kit
- Operator/Maintenance manual
- X axis steel telescopic cover
- Y axis JAVARA cover
- Arm type ATC with tool magazine
- ATC auto door
- Foot switch for tool away
- Leveling screw + foundation bolt
- X axis rack-pinion-syn. servo control with two linear scales (X ≥ 5m)
- Ethernet/USB/RS232 interface
- GTP 2G250 H/L gearbox
- Air/ Water cleaning equipment
- Twin spiral type chip remover
- Steel belt chip conveyor with cart
- Working lamp & Tool kit

• Optional Accessories

- Twin gate/ Twin bridge
- SDW type (W Travel 1M~2M)
- Siemens, Heidenhain Controller
- 30/37KW + ZF 2K300 (4500rpm)
- X, Y, Z, W axis linear scale
- CTS 40~70bars (for main spindle)
- Tool length measurement
- Auto work piece measurement
- CNC rotary (index) table
- Y axis steel telescopic cover
- Transformer
- Oil skimmer
- High speed direct spindle motor (for die and mold)
- Wide range spindle motor
- Heavy duty RAM 550mm×550mm (4 guideways)
- Heavy duty RAM 650mm×650mm (4 guideways)
- 90° milling head (Auto, Semi auto, Manual)
- Extension head (Auto, Manual)
- 90° extension milling head (Auto, Manual)
- AC swiveling head (Auto, Manual)
- AHC system (for auto head)
- Five/ Four axis Simultaneous head (TRAMEC)
- Five face milling head (Fixed type)
- Other Specific customerization