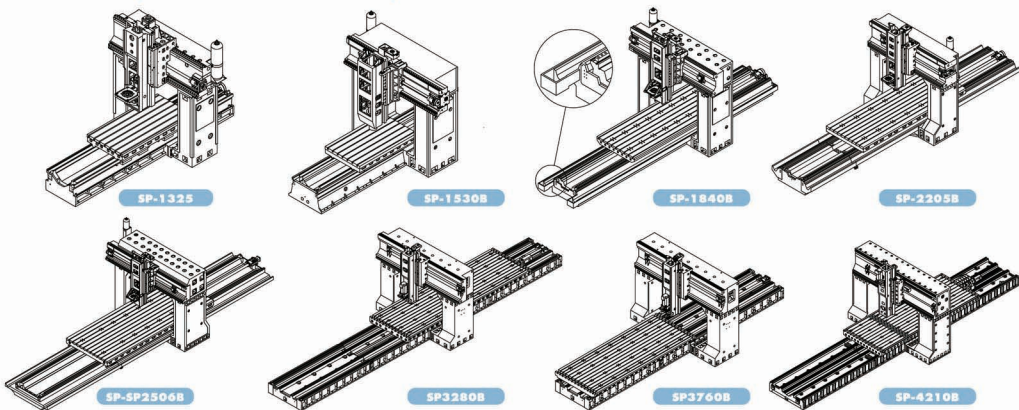
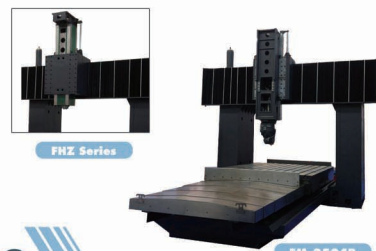


SP SERIES (T SHAPE BOX WAY RAM) BRIDGE TYPE



SPECIFICATION	Series	SP-1300A/B	SP-1500A/B	SP-1800B	SP-2200B/C	SP-2500B/C	SP-2700B/C X axis 3 linear ways	SP-2900B/C X axis 3 linear ways	SP-3200B X axis 4 linear ways	SP-3700B X axis 4 linear ways	SP-4200B X axis 4 linear ways
Table Size	Length Width	2/2.5/3/3.5m 1000mm	2/3/4m 1200mm	2/2.5/3/3.5/4m 1600mm	2/3/4/5/6m 1800mm	2/3/4/5/6m 2300mm	3/4/5/6m 2300mm	3/4/5/6m 2500mm	4/5/6/8m 2500mm	4/5/6/8/10/12m 3200mm	
T-Slot(No-size/distance)		7-22/150mm	7-22/170mm	9-22/180mm	9-22/180mm	11-28/200mm	11-28/200mm	12-28/200mm	9-28/200mm +2*(12-28/160mm)	9-28/200mm +2*(12-28/160mm)	15-28/200mm
Table Load capacity		X=2m: 3 ton X=2.5m: 4 ton X=3m: 5 ton X=3.5m: 7 ton	X=2m: 3 ton X=2.5m: 4 ton X=3m: 5 ton X=3.5m: 7 ton	X=2m: 3 ton X=2.5m: 4 ton X=3m: 5 ton X=3.5m: 7 ton	X=2m: 3 ton X=2.5m: 4 ton X=3m: 5 ton X=3.5m: 7 ton	X=3m: 10 ton X=4m: 12 ton X=5m: 15 ton X=6m: 18 ton	X=3m: 10 ton X=4m: 12 ton X=5m: 15 ton X=6m: 18 ton	X=4m: 15 ton X=5m: 20 ton X=6m: 25 ton X=8m: 30 ton	X=4m: 15 ton X=5m: 20 ton X=6m: 25 ton X=8m: 30 ton	X=4m: 15 ton X=5m: 20 ton X=6m: 25 ton X=8m: 30 ton	X=4m: 15 ton X=5m: 20 ton X=6m: 25 ton X=8m: 30 ton
Travel	X axis Y axis Z axis	2/2.5/3/3.5m 1400mm 800mm	2/3/4m 1650mm 800mm	2/2.5/3/3.5/4m 2000mm 1000mm	2/3/4/5/6m 2200mm 1000mm	3/4/5/6m 2700mm 1000mm	3/4/5/6m 2700mm 1000mm	3/4/5/6m 2700mm 1000mm	4/5/6/8m 2900mm 1000mm	4/5/6/8/10/12m 3200mm 1000mm	
Distance between Columns (D/C)		1400mm 120-920mm	1450mm 175-970mm	2000mm 150-1250mm	2200mm 150-1250mm	2700mm C: 260-1510mm	2700mm C: 260-1510mm	2900mm C: 260-1510mm	3200mm B: 260-1260mm C: 350-1600mm	3700mm B: 260-1260mm C: 350-1600mm	4200mm B: 260-1260mm C: 350-1850mm
Spindle Nose to Table (V/C)	Standard Optional	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm	Standard Add 200, 250, 300mm
Spindle Taper/outer dia	Standard Direct Drive Belt (1:1or1:1.5) Direct Drive Gear Box ZF Gear Box(4:1)	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm	BT50/200mm 6000rpm 6000rpm 6000rpm 4000rpm
Spindle Type & Speed		Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)	Standard Direct Drive Gear Box ZF Gear Box(4:1)
X axis Ball Screw Spec.		X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016	X=2.5m: 6316 X=3/3.5m: 8016
Y axis Ball Screw Spec.		5010	6310	6310	6310	6316	6316	6316	8020	8020	8020
Z axis Ball Screw Spec.		5010	5010	5010	5010	5010	5010	5010	6316	6316	6316
X sideways Type & Spec.	Model A: Friction Model B: Linear Linear (Roller type)	One V-Cone Belt 2x45 Heavy duty	Double V 2x55 Heavy duty	Not available 2x45 Heavy duty	Not available 2x55 Heavy duty	Double V only for X=3m 2x55 Heavy duty	Not available 2x55 Heavy duty	Not available 2x55 Heavy duty	Not available 2x55 Heavy duty	Not available 2x55 Heavy duty	Not available 2x55 Heavy duty
Y1/Y2 sideways Type & Spec.		2x45 Heavy duty	2x55 Heavy duty	2x45 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty
Z sideways Type & Spec.		2x45 Heavy duty	2x55 Heavy duty	2x45 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty
X/Y/Z Drive System		Direct drive	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)	Teeth Belt (2:1)
Main Motors recommended		22kw	22kw	22kw	22kw	30kw	30kw	30kw	30kw	30kw	30kw
X/Y/Z Drive Motors recommended		X=2.5m: 40N X=3.5m: 50N	X=2.5m: 40N X=3.5m: 50N	X=2.5m: 40N X=3.5m: 50N	X=2.5m: 40N X=3.5m: 50N	X=3m: 40N X=4m: 50N	X=3m: 40N X=4m: 50N	X=3m: 40N X=4m: 50N	X=3m: 40N X=4m: 50N	X=3m: 40N X=4m: 50N	X=3m: 40N X=4m: 50N
Net Weight		30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton



FM-2504B

Main Feature & Standard Equipment:

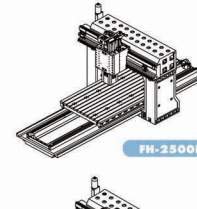
- High-class casting processed by Resin sand and wood pattern
- Top class imported Ball screws and nut set (PMI, HWIN, KORTA, etc.) and Bearing (FAG, NSK, NTN etc.)
- Imported Spindle & Tool clamping system (Royal, Posa, Taide, Sprinture etc.)
- Imported drive connectors (R+W)
- Stainless steel telescopic protection on X/Z axis (Keyarrow etc.), Y axis with Belt-type Protection
- Central Automatic lubrication system
- Coolant System
- For Friction Slideway: Harden & ground on all slideways and Turcite-B coated with precise scraping.
- Nitrogen type or Hydraulic counter balance system
- High quality painting (Color can be special made according to order)

Optional Choose:

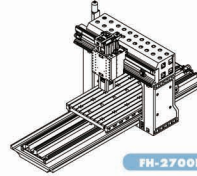
- Spindle speed optional: 8000rpm
- Coolant through Spindle (CTS)
- ATC: Arm Type ATC-24 or Chain Type
- ZF Gear Box for Spindle
- Servo Continuous Rotary Table (0.001°)
- Chip Conveyor
- Outside Quotaing: Standard or special made according to client's design
- CNC Pre-installed for clients: Full Ready package delivery according to client's design.
- For YTH18 Series, Spain "Hypotec" Brand UDG or UAG Universal Milling Head
- 10W2414 Rotary Table: Continuous Type or Difference Size and even with X axis also.

FHZ SERIES (SQUARE RAM) BRIDGE TYPE

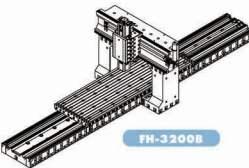
SPECIFICATION	Series	FHZ-2200B/C	FHZ-2500B/C	FHZ-2700B/C X axis 3 linear ways	FHZ-2900B/C X axis 3 linear ways	FHZ-3200B X axis 4 linear ways
Table Size	Length Width	2/3/4/5/6m 1800mm	3/4/5/6m 2300mm	3/4/5/6m 2300mm	3/4/5/6m 2500mm	4/5/6/8m 2500mm
T-Slot(No-size/distance)		9-22/180mm	11-28/200mm	11-28/200mm	12-28/200mm	2x28/160 mm
Table Load capacity		X=2m: 4 ton X=3m: 6 ton X=4m: 10 ton X=5m: 12 ton X=6m: 15 ton	X=3m: 10 ton X=4m: 12 ton X=5m: 15 ton X=6m: 18 ton	X=3m: 15 ton X=4m: 18 ton X=5m: 20 ton X=6m: 25 ton	X=3m: 15 ton X=4m: 18 ton X=5m: 20 ton X=6m: 25 ton	X=4m: 18 ton X=5m: 20 ton X=6m: 25 ton X=8m: 30 ton
Travel	X axis Y axis Z axis	2/2.3/4/5/6m 2200mm B: 1000mm C: 1250mm	3/4/5/6m 2200mm B: 1000mm C: 1250mm	3/4/5/6/2m 2200mm B: 1000mm C: 1250mm	3/4/5/6/2m 2200mm B: 1000mm C: 1250mm	4/5/6/8m 2200mm B: 1000mm C: 1250mm
Distance between Columns (D/C)		2200mm	2200mm	2200mm	2200mm	3200mm
Spindle Nose to Table (V/C)	Standard Optional	B: 260-1250mm C: 250-1500mm	B: 260-1250mm C: 260-1500mm	B: 260-1200mm C: 200-1500mm	B: 260-1200mm C: 200-1500mm	B: 200-1200mm C: 200-1500mm
Ram Dimension		420x420mm	460x460mm	460x460mm	460x460mm	480x480mm
Spindle Taper/outer dia		BT50/200mm	BT50/200mm	BT50/200mm	BT50/200mm	BT50/200mm
Spindle Type & Speed		Direct Drive Belt 1:1 or 1.1 (option with ZF 4:1) Direct Drive (option with ZF 4:1)	Direct Drive Belt 1:1 or 1.1 (option with ZF 4:1) Direct Drive (option with ZF 4:1)	Direct Drive Belt 1:1 or 1.1 (option with ZF 4:1) Direct Drive (option with ZF 4:1)	Direct Drive Belt 1:1 or 1.1 (option with ZF 4:1) Direct Drive (option with ZF 4:1)	Direct Drive Belt 1:1 or 1.1 (option with ZF 4:1) Direct Drive (option with ZF 4:1)
X axis Ball Screw Spec.		X=2m: 6310 X=3/4/5m: 8016 X=6m: 10020	X=3/4/5m: 8016 X=6m: 10020	X=3/4/5m: 8016 X=6m: 10020	X=3/4/5m: 8016 X=6m: 10020	X=4m: 8020 X=5m: 8016 X=6m: 10020
Y axis Ball Screw Spec.		6310	6316	6316	6316	6316
Z axis Ball Screw Spec.		5010	5010	5010	5010	5010
X sideways Type & Spec.	Model B: Linear Linear (Roller type)	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty
Y1/Y2 sideways Type & Spec.		2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty
Z sideways Type & Spec.		2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty	2x55 Heavy duty
X/Y/Z Drive System		Teeth Belt (2:1) Teeth Belt (2:1) Teeth Belt (2:1)	Teeth Belt (2:1) Teeth Belt (2:1) Teeth Belt (2:1)	Teeth Belt (2:1) Teeth Belt (2:1) Teeth Belt (2:1)	Teeth Belt (2:1) Teeth Belt (2:1) Teeth Belt (2:1)	Teeth Belt (2:1) Teeth Belt (2:1) Teeth Belt (2:1)
Main Motors recommended		22kw X=2m: 40N X=3m: 50N X=4m: 70N	22kw X=3m: 40N X=4m: 50N X=5m: 70N	22kw X=3m: 40N X=4m: 50N X=5m: 70N	22kw X=3m: 40N X=4m: 50N X=5m: 70N	22kw X=3m: 40N X=4m: 50N X=5m: 70N
X/Y/Z Drive Motors recommended		X=2.5m: 40N X=3.5m: 50N X=4.5m: 70N	X=2.5m: 40N X=3.5m: 50N X=4.5m: 70N	X=2.5m: 40N X=3.5m: 50N X=4.5m: 70N	X=2.5m: 40N X=3.5m: 50N X=4.5m: 70N	X=2.5m: 40N X=3.5m: 50N X=4.5m: 70N
Net Weight		30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton	30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton



FHZ-2500B



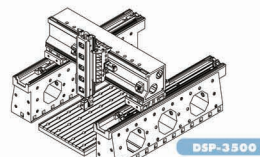
FHZ-2700B



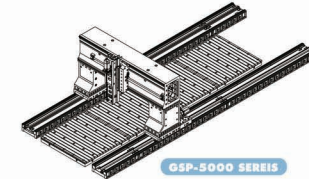
FHZ-3200B

GSP SERIES MOVING GANTRY

SPECIFICATION	Series	GSP-5000 Series
Table Size (Floor Type)	Length Width	12/16/20/24/28/32m 4000mm
T-Slot(No-size/distance)		15-30/250mm
Table Load capacity		7000kg/25m
Travel	X axis Y axis Z axis	12/16/20/24/28/32m 1500mm 1500mm
Distance between Columns (D/C)		1500mm
Spindle Nose to Table (V/C)	Standard Optional	400-1900mm Add 300, 400, 500mm
Spindle Taper/outer dia	Standard Direct Drive Belt (1:1 or 1.5) Direct Drive Gear Box ZF Gear Box(4:1)	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm
Spindle Type & Speed		Standard Direct Drive Gear Box ZF Gear Box(4:1)
X axis Ball Screw Spec.		X=2.5m: 6316 X=3/3.5m: 8016
Y axis Ball Screw Spec.		5010
Z axis Ball Screw Spec.		5010
X sideways Type & Spec.	Model A: Friction Model B: Linear Linear (Roller type)	One V-Cone Belt 2x45 Heavy duty
Y1/Y2 sideways Type & Spec.		2x45 Heavy duty
Z sideways Type & Spec.		2x45 Heavy duty
X/Y/Z Drive System		Direct drive
Main Motors recommended		22kw
X/Y/Z Drive Motors recommended		X=2.5m: 40N X=3.5m: 50N
Net Weight		30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton



GSP-3500



GSP-5000 SERIES

DSP SERIES MOVING CROSSBEAM

SPECIFICATION	Series	DSP-3500 Series
Table Size (Floor Type)	Length Width	3/4/5m 2500mm
T-Slot (No-size/distance)		13-28/200mm
Table Load capacity		7000kg/25m
Travel	X axis Y axis Z axis	3.5/4.5/5.5m 3000mm 1250mm
Distance between Columns (D/C)		3000mm
Spindle Nose to Table (V/C)	Standard Optional	300-1800mm Add 300, 400, 500mm
Spindle Taper/outer dia	Standard Direct Drive Belt (1:1 or 1.5) Direct Drive Gear Box ZF Gear Box(4:1)	BT50/190mm 6000rpm 6000rpm 6000rpm 4000rpm
Spindle Type & Speed		Standard Direct Drive Gear Box ZF Gear Box(4:1)
X axis Ball Screw (or Rack) Spec.		X=2.5m: 6316 X=3/3.5m: 8016
Y axis Ball Screw Spec.		5010
Z axis Ball Screw Spec.		5010
X sideways Type & Spec.	Model A: Friction Model B: Linear Linear (Roller type)	One V-Cone Belt 2x45 Heavy duty
Y1/Y2 sideways Type & Spec.		2x45 Heavy duty
Z sideways Type & Spec.		2x45 Heavy duty
X/Y/Z Drive System		Direct drive
Main Motors recommended		22kw
X/Y/Z Drive Motors recommended		X=2.5m: 40N X=3.5m: 50N
Net Weight		30N X=2m: 14 ton X=2.5m: 16 ton X=3m: 18 ton X=3.5m: 20 ton

FM SERIES FIVE-SIDE (WITH MILLING HEADS)

* All above Series (Only suitable For B model) can add Fixed Type Automatic Indexing Head

* All above Series (Only suitable For B model) can add Automatic changed Type Automatic Indexing Head

* The Milling Heads are original imported from Spain Nolicos Correa "Hypatia" Brand.

* The Main Specification are same as above (B model) except Spindle Part

HEAD SPECIFICATION	Fixed Type		Exchangible Type	
	Huron Type UDG	Orthogonal Type UAG	Right Angel Type CHA	Orthogonal Type UAGA
Spindle Taper/Diameter	BT50 or ISO50/100mm	BT50 or ISO50/100mm	BT50 or ISO50/100mm	BT50 or ISO50/100mm
Spindle Nose/Full set	DN69871/69872A	DN69871/69872A	DN69871/69872A	DN69871/69872A
B/C axis Auto-Indexing unit	2.5°	2.5°	2.5°	2.5°
C axis indexing range	±360°	±120°	±360°	±120°
B axis indexing range	±360°	±120°	±360°	±120°
Spindle Speed	S1:3000rpm, S6: 3500rpm	S1:3000rpm, S6: 3500rpm	S1:3000rpm, S6: 3500rpm	S1:3000rpm, S6: 3500rpm
Output Torque	Max 1500Nm	Max 1500Nm	Max 1500Nm	Max 1500Nm
B/C axis Clamping Force	2200kg/70bar	2200kg/70bar	2200kg/70bar	2200kg/70bar
Tool Clamping Force	1500kg/70bar	1500kg/70bar	1500kg/70bar	1500kg/70bar
Coolant through spindle (CTS)	Optional	Optional	Optional	Optional
Encoder (Heidenhain ERN280)	C/W Standard	C/W Standard	C/W Standard	C/W Standard