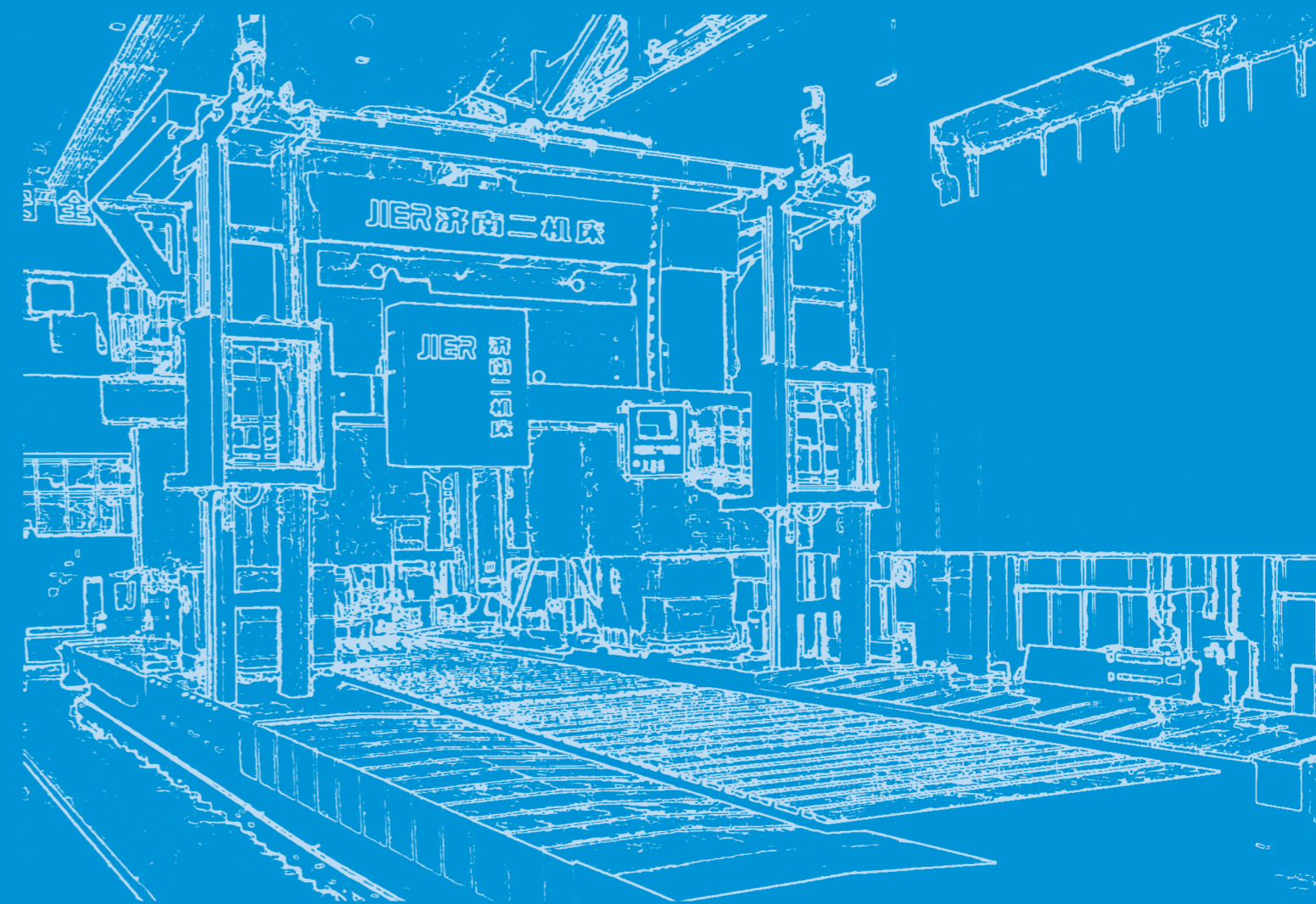


JIER

CNC MACHINE TOOLS



JIER MACHINE-TOOL GROUP CO., LTD.

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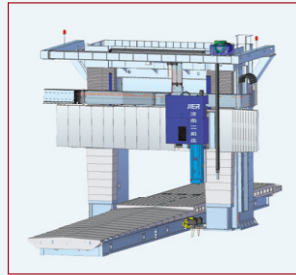
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JIER-BE-2011-01

JIER MACHINE-TOOL GROUP CO., LTD.

MAIN PRODUCTS



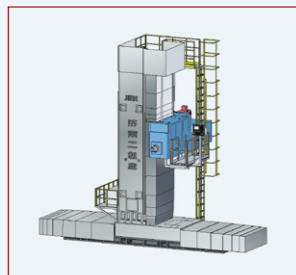
■ GANTRY TYPE CNC BORING & MILLING MACHINE / CENTER

- XK21 / XH21 Gantry Type CNC Boring & Milling Machine / Center with movable crossrail (table width: 2m~6m)
- XH21 Gantry Type Machining Center with movable crossrail and automatic pallet changer (APC) (table width: 2m~3m)
- XK24 / XH24 Gantry Type CNC Boring & Milling Machine / Center with fixed crossrail (table width: 1.1m~6m)
- XKS24 / XHS24 Gantry Type CNC High-Speed Boring & Milling Machine / Center with fixed crossrail (table width: 1.1m~2.5m)
- XK27 / XH27 Gantry Type CNC Boring & Milling Machine / Center with traveling gantry and fixed crossrail (table width: 1.8m~8m)
- XKA27 / XHA27 Double Gantry CNC Boring & Milling Machine / Center with traveling gantry & fixed crossrail (table width: 1.8m~6m)
- XK28 / XH28 Gantry Type CNC Boring & Milling Machine / Center with traveling gantry & movable crossrail (table width: 2m~8m)



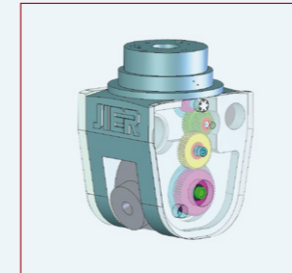
■ GANTRY TYPE 5-AXIS BORING & MILLING MACHINE / CENTER

- (configured with dual-swiveling milling head of mechanical spindle, mechanically driven electric spindle or electric spindle driven by torque motor)
- XKSV24 / XHSV24 5-axis High-Speed Boring & Milling Machine / Center Gantry Type with fixed crossrail (table width: 1.1m~2.5m)
 - XKSV25 / XHSV25 5-axis High-Speed Boring & Milling Machine / Center Over-Head Type (table width: 2m~5m)
 - XKSV27 / XHSV27 5-axis High-Speed Boring & Milling Machine / Center Gantry Type with traveling gantry & fixed crossrail (table width: 2m~6m)
 - XKV27 Gantry / Double-Gantry 5-axis Boring & Milling Machine with mechanically driven dual-swiveling head and fixed crossrail (table width: 2.5m~5m)



■ FLOOR-TYPE CNC BORING & MILLING MACHINE / CENTER

- GIMAX Floor-type CNC Boring & Milling Machine (spindle dia.: $\Phi 160\text{mm} \sim \Phi 250\text{mm}$)
- TK69 Floor-type CNC Boring & Milling Machine (spindle dia.: $\Phi 160\text{mm} \sim \Phi 320\text{mm}$)
- TKS69 Floor-type High-Speed Series (spindle dia.: $\Phi 160\text{mm} \sim \Phi 320\text{mm}$)



■ MACHINE ACCESSORIES

- Extension, right-angle, universal and narrow right-angle milling heads
- Dual-swiveling milling head of mechanical spindle, electric spindle driven mechanically or driven by torque motor
- Automatic attachment changer (AAC)
- Facing head
- Rotary table with linear motion

PROFILE

JIER is the largest professional manufacturer of heavy-duty metal-cutting machine tools and metal-forming equipment in China, with the largest production scale, the most complete product categories and the strongest producing capability.

With nearly 60 years' of designing & building experience for heavy-duty metal-cutting machines equipment. JIER has been continuously innovating for providing customer with a whole package of customized solutions and all-in-one services.



XK21 / XH21

GANTRY TYPE CNC BORING & MILLING MACHINE / CENTER

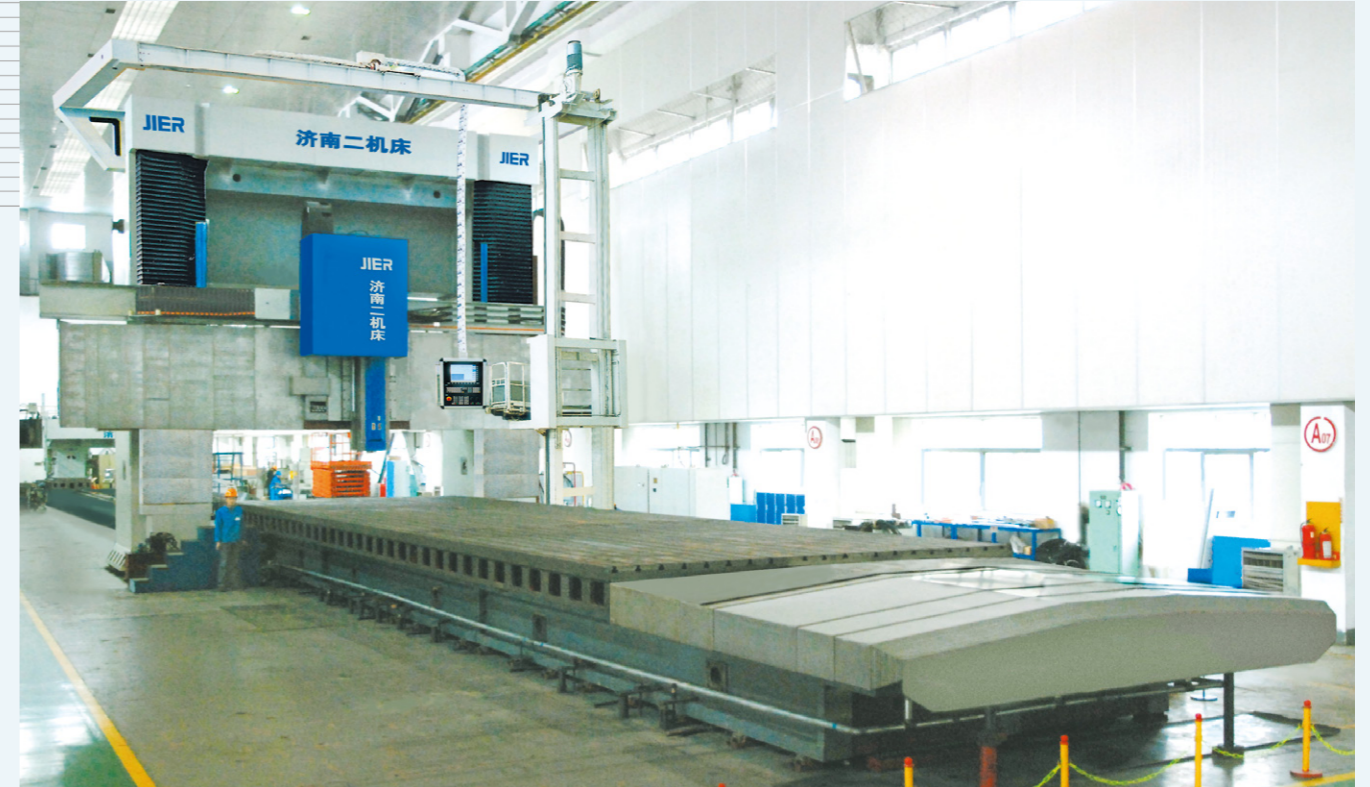
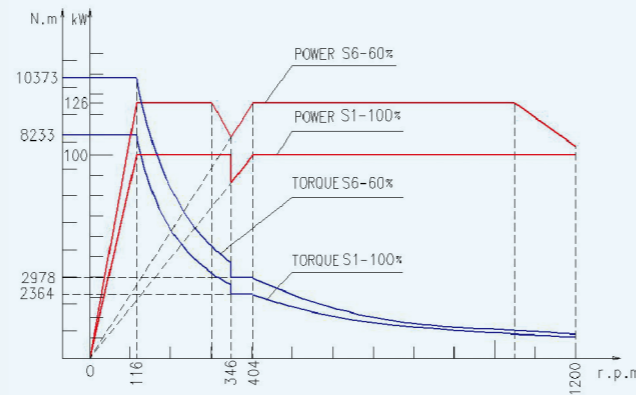
with movable crossrail

Scope of Specifications:

- Table width 2m~6m
- Table length 5m~20m
- Spindle power 40kW~100kW

Axes of Movement:

- X-axis: table moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway
- W-axis: crossrail moves up and down along both left and right column guideway



Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- With dynamic counterbalancing compensation system for accuracy by way of electric & hydraulic proportion
- Hydrostatic guideways for X/Y/W axis
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation, locomotive, automobile, machine tool and mould & die sectors etc

MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XK2120	XK2125	XK2130	XK2136	XK2140	XK2145	XK2150	XK2160	
		XH2120	XH2125	XH2130	XH2136	XH2140	XH2145	XH2150	XH2160	
Area of table(W×L)	(mm)	2000×5000	2500×8000	3000×10000	3600×12000	4000×12000	4500×14000	5000×18000	6000×16000	
Distance between columns	(mm)	2600	3100	3600	4200	4600	5600		6600	
Max. load capacity of table per meter	(kg/m)	5000	10000		15000			20000		
Longitudinal stroke of table(X-axis)	(mm)	5500	8500	10500	12500	12500	14500	18500	16500	
Transversal stroke of saddle(Y-axis)	(mm)	3600	4100	4600	5500	5600	6500	6600	7100	
Vertical stroke of ram milling head (Z-axis)	(mm)	1250	1500			1500			1500/2000	
Vertical stroke of crossrail(W-axis)	(mm)	1500	1500~3000	1500~3000	2000~3500			3500/4000		
Max. distance from spindle nose to table surface	(mm)	2000	2000/2500	3000/3500	4000			4500		
Taper of spindle		ISO No.50	ISO No.50/60		ISO No.60					
Speed range of spindle	(rpm)	5~2000	5~2000			5~1200				
Power of spindle motor	(kW)	40,50	40,60,100			100				
Feed rates of X-, Y-, and Z-axis	(mm/min)					5~5000				
Feed rate of W-axis	(mm/min)					5~2000				
Rapid speed of X-axis	(mm/min)					10000				
Rapid speed of Y-axis	(mm/min)	10000						8000		
Rapid speed of Z-axis	(mm/min)					5000				
Rapid speed of W-axis	(mm/min)					2000				
Capacity of tool magazine(XH21)	(pcs)	40,50,60,80,120 (Chain type),Upon customer's request								
Overall dimension (L×W×H)	(mm)	16500×8500×7340	25000×10900×7800	29630×11100×8340	32000×12000×9590	34500×12000×9000	40000×12000×9000	50000×13700×9500	46000×14700×9500	
Total weight, approx.	(kg)	75000	220000	240000	310000	360000	470000	550000	580000	
Optional		Extension, universal, right angle, double end, narrow right angle, countersinking and speeding-up milling heads etc.								
Remarks:		The length of table can be increased by increment of 1000mm								

XH21

GANTRY TYPE MACHINING CENTER

with movable crossrail and automatic pallet changer (APC)

Scope of Specifications:

- Table width 2m~3m
- Table length 4m~6m
- Spindle power 22kW~60kW

Axes of Movement:

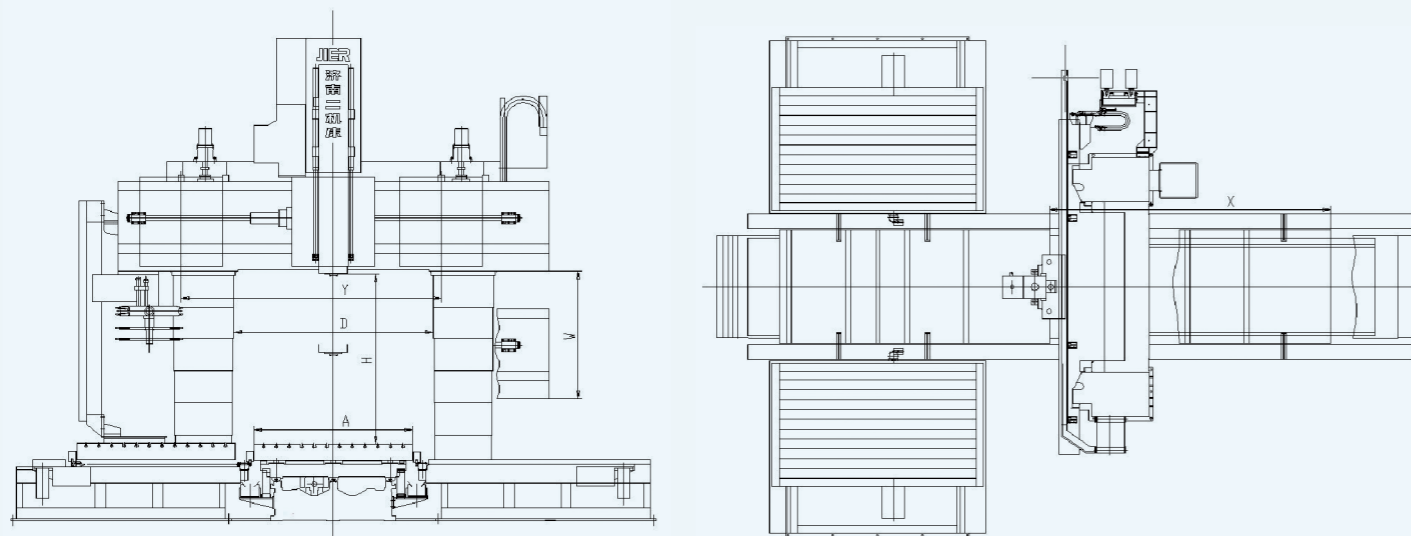
- X-axis: table moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway
- W-axis: crossrail moves up and down along both left and right column guideway

Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- With dynamic counterbalancing compensation system for accuracy by way of electric & hydraulic proportion
- Hydrostatic guideways for X/Y/W axis
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation, locomotive, automobile, machine tool and mould & die sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XH2120×40	XH2125×40	XH2130×50
Area of table(W×L)	(mm)	2000×4000	2500×4000	3000×5000
Max. distance from spindle nose to table surface	(mm)	1800	2500	2500
Distance between columns (with guideway cover)	(mm)	2400	2900	3400
Section area of ram	(mm)	410×410	460×460	460×460/550×550
Taper of spindle		ISO No.50		
Speed range of spindle	(rpm)	0~3000	0~2000	
Power of spindle motor	(kW)	40	40/60	
Longitudinal stroke of table(X-axis)	(mm)	5500		6500
Transversal stroke of saddle(Y-axis)	(mm)	3300	4100	4800
Vertical stroke of ram milling head(Z-axis)	(mm)	900	1250	
Vertical stroke of crossrail(W-axis)	(mm)	1500	2000	
Feed rates of X-, Y-, and Z-axis	(mm/min)	1~5000		
Rapid speeds of X- and Y-axis	(mm/min)	10000		
Rapid speed of Z-axis	(mm/min)	5000		
Feed speed/rapid speed of W-axis	(mm/min)	1~1000	1~2000	
Capacity of tool magazine	(pcs)	32,40,60,80,100,120,Upon customer's request		
Optional		Extension, universal, right angle, double end, narrow right angle milling heads etc.		
CNC system		SIEMENS 840D		
Remarks:The length of table can be increased by increment of 1000mm				

XK24 / XH24

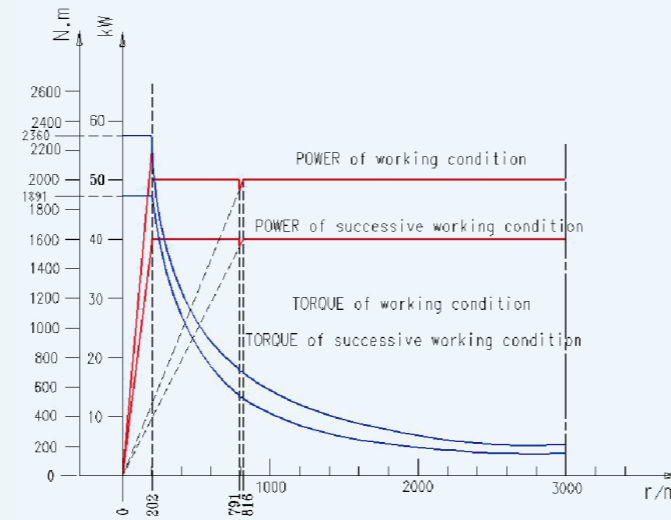
GANTRY TYPE CNC BORING & MILLING MACHINE / CENTER with fixed crossrail

Scope of Specifications:

- Table width 1.1m~6m
- Table length 2.5m~12m
- Spindle power 22kW~100kW

Axes of Movement:

- X-axis: table moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway



Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation, locomotive, automobile, machine tool sectors etc

MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XK2411	XK2414	XK2416	XK2418	XK2420	XK2425	XK2430	XK2440	XK2450	
		XH2411	XH2414	XH2416	XH2418	XH2420	XH2425	XH2430	XH2440	XH2450	
Area of table(W×L)	(mm)	1100×4000	1400×4000	1600×4000	1800×4000	2000×4000	2500×5000	3000×6000	4000×8000	5000×10000	
Distance between columns	(mm)	1500	1800	2000	2200	2600	3100	3600	4600	5600	
Max. load capacity of table per meter	(kg/m)	3000			5000		4000	15000			
Q'ty and width of T-slots	(pcs×mm)	7×22	9×22	9×28		10×28	12×28	13×36	17×36	21×36	
Longitudinal stroke of table(X-axis)	(mm)	4500				5500	6500	8500	10500		
Transversal stroke of saddle(Y-axis)	(mm)	2450	2450	2700	2900	3300	3850	4500	5800	6600	
Vertical stroke of ram milling head(Z-axis)	(mm)	700/950	700/950	950/1250		1250/1500		1500	2000		
Max. distance from spindle nose to table surface	(mm)	1000/1350		1350/1650		1650/2000		2500	3000		
Taper of spindle		ISO No.50						ISO No.60			
Speed range of spindle	(rpm)	5~3200/3000				5~3000		5~2000	5~2000	5~1200	5~2000
Power of spindle motor	(kW)	22,30				30,40	40	40,60	60	100	60
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~3000									
Rapid speed of X-axis	(mm/min)	8000									
Rapid speed of Y-axis	(mm/min)	8000									
Rapid speed of Z-axis	(mm/min)	6000									
Overall dimensions (L×W×H)	(mm)	10800×4700 ×5000(5500)	10800×5000 ×5000(5500)	10800×5200 ×5300(5800)	10800×5400 ×5300(5800)	10800×5800 ×5300(5800)	12800×6800 ×6300 (6550)	16000×9000 ×7800(8150)	20000×10150 ×8600	25000×11150 ×9100	
Total weight, approx.	(kg)	35000	42000	45000	48000	52000	67000	145000	217000		
Capacity of tool magazine(XH24)	(pcs)	20,24(Disc-type), or 32,40,50,60,80(Chain-type), on customer's request									
Optional		Extension, universal, right angle, double end, narrow right angle milling heads etc.									
Remarks:		The length of table can be increased by increment of 1000mm									

XKS24 / XHS24

GANTRY TYPE CNC HIGH-SPEED BORING & MILLING MACHINE / CENTER with fixed crossrail

Scope of Specifications:

- Table width 1.1m~2.5m
- Table length 2.5m~6m
- Spindle power 22kW~37kW

Axes of Movement:

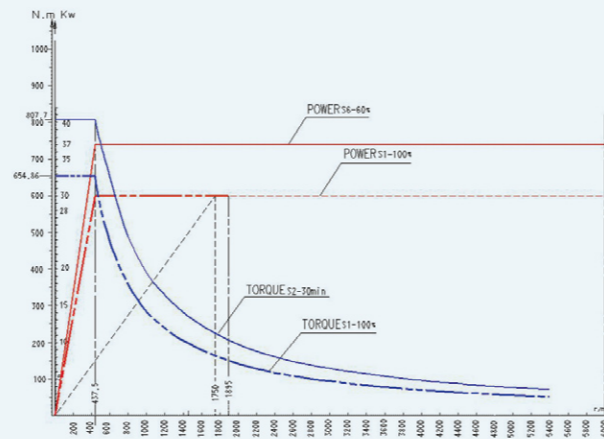
- X-axis: table moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway

Features:

- Optimum rigidity and anti-vibration combination of large components
- High speed, high rigidity and long-term accuracy endurance
- Good dynamic response characteristics

Applications:

- Widely applied in mould & die, metallurgy, defense industry, aerospace sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKS2411	XKS2414	XKS2416	XKS2418	XKS2420	XKS2425
		XHS2411	XHS2414	XHS2416	XHS2418	XHS2420	XHS2425
Area of table(W×L)	(mm)	1100×3000	1400×3000	1600×4000	1800×4000	2000×4000	2500×5000
Max. load capacity of table per meter	(kg/m)	3000			4000		
Q'ty and width of T-slots	(pcs×mm)	7×22	9×22	9×28	9×28	10×28	12×28
Distance between columns	(mm)	1500	1800	2000	2200	2600(2800)	3100
Longitudinal stroke of table(X-axis)	(mm)	3500			4500		5500
Transversal stroke of saddle(Y-axis)	(mm)	2450	2450	2700	2900	3300	3850
Vertical stroke of ram milling head (Z-axis)	(mm)	700/950			950/1250		1250
Min. distance from spindle nose to table surface	(mm)	200,400					250
Taper of spindle		ISO No.50					
Speed range of spindle	(rpm)	5~6000					
Power of spindle motor	(kW)	22,30			22,28,30,37		
Feed rates of X-, Y-, and Z-axis	(mm/min)	8000/8000/6000					
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	8000					
Capacity of tool magazine (XHS24)	(pcs)	20,24(Disc-type), or 32,40,50,60,80 (Chain-type), Upon customer's request					
Overall dimensions (L×W×H)	(mm)	8600×4700 ×5000(5500)	8600×5000 ×5000(5500)	10800×5400 ×5600(6100)	10800×5800 ×5600(6100)	10800×6200 ×5600(6100)	12800×6800 ×6100
Total weight, approx.	(kg)	32000	38000	45000	48000	52000	67000
Optional		Extension, universal, right angle, narrow right angle milling heads etc.					
Remarks:	The length of table can be increased by increment of 1000mm						

XK27 / XH27

GANTRY TYPE CNC BORING & MILLING MACHINE / CENTER

with traveling gantry and fixed crossrail

Scope of Specifications:

- Table width 1.8m~8m
- Table length 5m~20m
- Spindle power 22kW~100kW

Axes of Movement:

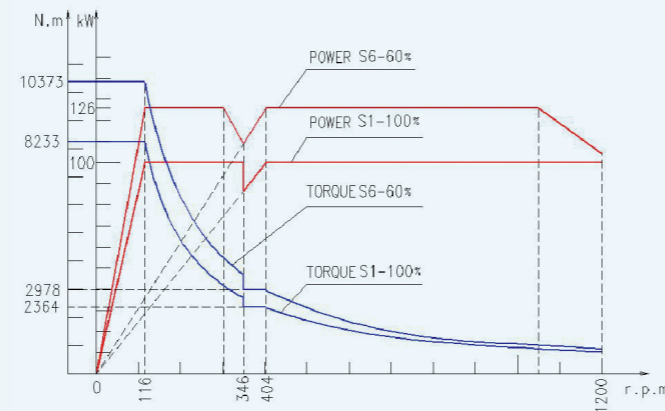
- X-axis: gantry moves longitudinally along fixed bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway

Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- X-axis with hydrostatic or linear guideway, and Y-axis with combined rolling and sliding guideway
- Pre-loaded dual rack & pinion driving mechanism to eliminate reverse clearance
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in power generation, metallurgy, defense industry, shipbuilding, aerospace sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	X K2718	XK2720	XK2725	XK2730	XK2740	XK2745	XK2750	XK2760	XK2770	XK2780
		X H2718	XH2720	XH2725	XH2730	XH2740	XH2745	XH2750	XH2760	XH2770	XH2780
Area of table(W×L)	(mm)	180 0×8000	2000×6000	2500×6000	3000×6000	4000×8000	4500×8000	5000×10000	6000×12000	7000×12000	8000×20000
Distance between columns	(mm)	3300	3500	4000	4500	5500	6000	6500	7500	8500	9500
Max. load capacity of table per meter	(kg/m)	10000									
Longitudinal stroke of gantry(X-axis)	(mm)	9500	7500		9500		11500	13500		21500	
Transversal stroke of saddle(Y-axis)	(mm)	2800	3000	3500	4000	5000	5500	6200	7200	8200	9200
Vertical stroke of ram milling head(Z-axis)	(mm)	950/1250		1250/1500		1500		2000			
Max. distance from spindle nose to table surface	(mm)	As per customer's requirement									
Taper of spindle		ISO No.50					ISO No.60				
Speed range of spindle	(rpm)	5-32 00	5-3000	5-3200		5-2000	5-2000/1200		5-1200		
Power of spindle motor	(kW)	22	30	30	30,40	40,60	100		100		
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~5000		5~5000		5~3000		5~3000			
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	10000			6000			6000			
Capacity of tool magazine(XH27)	(pcs)	20,24(Disc-type tool magazine, optional), or 50,60,80,120(Chain-type tool magazine, optional), on customer's request									
Overall dimensions (L×W×H)	(mm)	200 00×8500 × 6500	17000×8500 ×7000	18000×9000 ×7000	18000×9500 ×7000	20000×10500 ×7500	17500×10500 ×7000	20000×11000 ×7500	22000×12000 ×8000	22000×13000 ×8000	30000×14000 ×8000
Total weight, approx.	(kg)	125000	130000	135000	140000	155000	170000	200000	230000	260000	295000
Optional		Extension, universal, right angle, double end and narrow right angle milling heads etc.									
Remarks:		The length of table can be increased by increment of 1000mm									

XKA27 / XHA27

DOUBLE GANTRY CNC BORING & MILLING MACHINE / CENTER with traveling gantry & fixed crossrail

Scope of Specifications:

- Table width 1.8m~6m
- Table length 5m~20m
- Spindle power 22kW~100kW

Axes of Movement:

- X-axis: gantry moves longitudinally along fixed bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway

Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- X-axis with hydrostatic or linear guideway, and Y-axis with combined rolling and sliding guideway
- Pre-loaded dual rack & pinion driving mechanism to eliminate reverse clearance
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in heavy machinery, locomotive, petroleum-chemical, shipbuilding and hydro-power generation sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKA2720	XKA2725	XKA2730	XKA2740	XKA2745	XKA2750
		XHA2720	XHA2725	XHA2730	XHA2740	XHA2745	XHA2750
Area of table(W×L)	(mm)	2000×25000	2500×20000	3000×20000	4000×20000	4500×20000	5000×20000
Distance between columns	(mm)	4000		4500	5500	6000	6500
Max. load capacity of table per meter	(kg/m)	10000					
Longitudinal stroke of single gantry(X-axis)	(mm)	23000	18000 or as per customer's requirement				
Transversal stroke of saddle(Y-axis)	(mm)	3000	3500	4000	5000	5500	6000
Vertical stroke of ram milling head (Z-axis)	(mm)	950,1250,1500					
Min. distance from spindle nose to table surface	(mm)	As per customer's requirement					
Taper of spindle		ISO No.60					
Speed range of spindle	(rpm)	5~2000/1200					
Power of spindle motor	(kW)	60,100					
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~5000					
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	10000					
Capacity of tool magazine (XHA27)	(pcs)	20,24(Disc-type), or 50,60,80,120 (Chain-type), on customer's request					
CNC system		SIEMENS 840D or other CNC systems					
Overall dimensions (L×W×H)	(mm)	37000×8200×6000	32000×9100×6200	32000×9600×6200	32000×10500×6500	32000×11000×8000	32000×11600×8200
Total weight, approx.	(kg)	320000	350000	380000	480000	540000	600000
Optional		Extension, universal and right angle milling heads etc.					
Remarks:The length of table can be increased by increment of 1000mm							

XK28 / XH28

GANTRY TYPE CNC BORING & MILLING MACHINE / CENTER

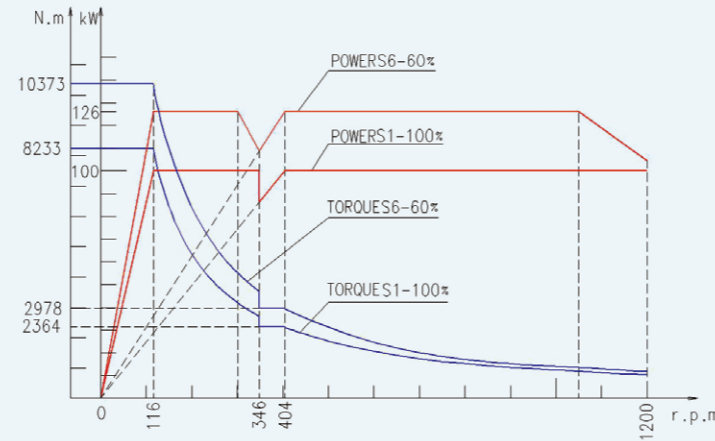
with traveling gantry & movable crossrail

Scope of Specifications:

- Table width 2m~8m
- Table length 8m~30m
- Spindle power 60kW~100kW

Axes of Movement:

- X-axis: gantry moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram lifts vertically along saddle guideway
- W-axis: crossrail moves up and down along both left and right column guideway



Features:

- Optimum rigidity and anti-vibration combination of large components
- High power and large torque milling head and milling accessories
- With dynamic counterbalancing compensation system for accuracy by way of electric & hydraulic proportion
- Hydrostatic guideways for X/Y/W axis
- Heavy cutting, high rigidity, heavy load capacity and long-term endurance of accuracy

Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation, locomotive, automobile, mould & die, machine tool sectors etc

MAIN TECHNICAL SPECIFICATIONS

Model	XK2830	XK2836	XK2840	XK2845	XK2850	XK2860	XK2870
Technical specifications	XH2830	XH2836	XH2840	XH2845	XH2850	XH2860	XH2870
Area of table(W×L)	(mm) 3000×10000	3600×10000	4000×16000	4500×16000	5000×16000	6000×16000	7000×16000
Distance between columns	(mm) 4100	4700	5100	5600	6100	7100	8100
Max. load capacity of table per meter	(kg/m ²)	25000					
Longitudinal stroke of gantry (X-axis)	(mm)	11950		17950			
Transversal stroke of saddle (Y-axis)	(mm)	5100	5700	6100	6600	7100	8100
Vertical stroke of ram milling head (Z-axis)	(mm)	1500/2000					
Vertical stroke of crossrail (W-axis)	(mm)	1500~2500		2500~3000		3500~4000	
Max. distance from spindle nose to table surface	(mm)	3500		4000		5000	
Taper of spindle		ISO No.60					
Speed range of spindle	(rpm)	1~2000	1~1200	1~1200			
Power of spindle motor	(kW)	60	100	100			
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~5000					
Feed rate of W-axis	(mm/min)	5~2000					
Rapid speed of X-axis	(mm/min)	10000					
Rapid speed of Y-axis	(mm/min)	10000					
Rapid speed of Z-axis	(mm/min)	5000					
Rapid speed of W-axis	(mm/min)	2000					
Capacity of tool magazine(XH28)	(pcs)	40,50,60(Chain-type), Upon request of customer					
Overall dimensions (L×W×H)	(mm)	22000×11000 ×8500	22000×12000 ×8500	30000×12500 ×9000	32000×13500 ×9200	35000×14500 ×11000	35000×15500 ×11000
Total weight, approx.	(kg)	320000	350000	400000	470000	490000	520000
Optional		Extension, universal, right angle, double end, narrow right angle, anti-scraping and speed-increasing milling heads etc.					

Remarks: The length of table can be increased by increment of 1000mm

XKSV24 / XHSV24

5-AXIS HIGH-SPEED BORING & MILLING MACHINE / CENTER

Gantry Type with fixed crossrail

Scope of Specifications:

- Table width 1.1m~2.5m
- Table length 4m~5m
- Spindle power 30kW~40kW

Axes of Movement:

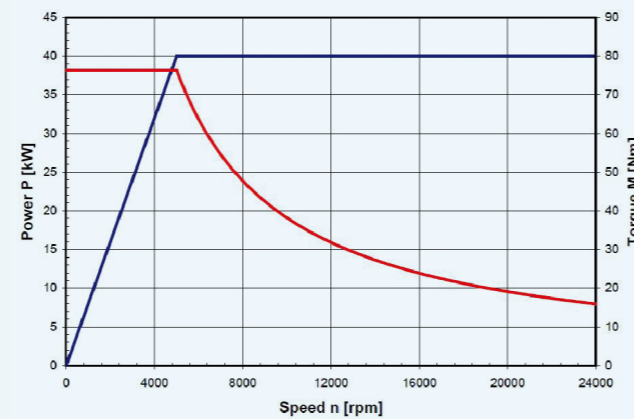
- X-axis: table moves longitudinally along fixed bed guideway
- Y-axis: milling head saddle moves transversally along crossrail guideway
- Z-axis: milling head ram lifts vertically along saddle guideway
- A-axis: the spindle of dual-swiveling head swings in vertical plane
- C-axis: the spindle of dual-swiveling head rotates in horizontal plane

Features:

- Optimum rigidity and anti-vibration combination of large components
- Linear guideways for X/Y/Z axis
- High-speed, high rigidity and good endurance of accuracy
- Precision machining of 3D curved surfaces

Applications:

- Widely applied in military defense, engine, shipbuilding, locomotive, mould & die for automotive, water pumps, aerospace and machine tool sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKSV2411	XKSV2414	XKSV2416	XKSV2418	XKSV2420	XKSV2425
		XHSV2411	XHSV2414	XHSV2416	XHSV2418	XHSV2420	XHSV2425
Area of table(W×L)	(mm)	1100×4000	1400×4000	1600×4000	1800×4000	2000×4000	2500×5000
Distance between columns	(mm)	1500	2000	2000	2200	2600	3100
Max. load capacity of table per meter	(kg/m)	2500		3000	4000		
Longitudinal stroke of table(X-axis)	(mm)	4500			5500		
Transversal stroke of saddle(Y-axis)	(mm)	2500	2500	2700	3050	3300	3850
Vertical stroke of ram milling head (Z-axis)	(mm)	950,1250,1500					
Min. distance from spindle nose to table surface	(mm)	250					
Feed rates of X-, Y-, and Z-axis	(mm/min)	8000/8000/6000					
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	8000					
Rotary angle of A-axis (swing range)	(°)	±110°					
Rotary angle of C-axis (swing range)	(°)	±200°					
Rotary speeds of A- and C-axis	(rpm)	0~8					
Rapid rotary speeds of A- and C-axis	(rpm)	8					
Dual-swiveling milling head	Model	VX30/17		VX30/23		VX40/23	
	Power of electric spindle (S6/S1)	40/30		34.5/30		52/40	
	Taper of spindle	HSK-A63		HSK-A63		HSK-A63	
	Max. spindle speed	24000		18000		24000	
	Spindle torque (S6/S1)	38.7/29.1		82.4/71.1		93.2/71.1	
Capacity of tool magazine(XHSV24)	(pcs)	16,20,24,40,60, Upon request of customer					
CNC system		Siemens 840D or other brand systems					
Overall dimensions (L×W×H)	(mm)	12000×4200×6200	12000×4800×6200	12000×5300×6400	12000×5600×6400	12000×6000×6400	14000×8100×6800
Total weight, approx.	(kg)	38000	42000	47000	52000	60000	72000
Remarks: 1. The length of table can be increased by increment of each meter 2. If dual-swiveling universal milling head is used and when A-axis is in vertical position, the distance from spindle nose to table surface can be changed as per customer's requirement							

XKSV25 / XHSV25

5-AXIS HIGH-SPEED BORING & MILLING MACHINE / CENTER

Over-Head Type

Scope of Specifications:

- Table width 2m~5m
- Table length 4m~30m
- Spindle power 22kW~100kW

Axes of Movement:

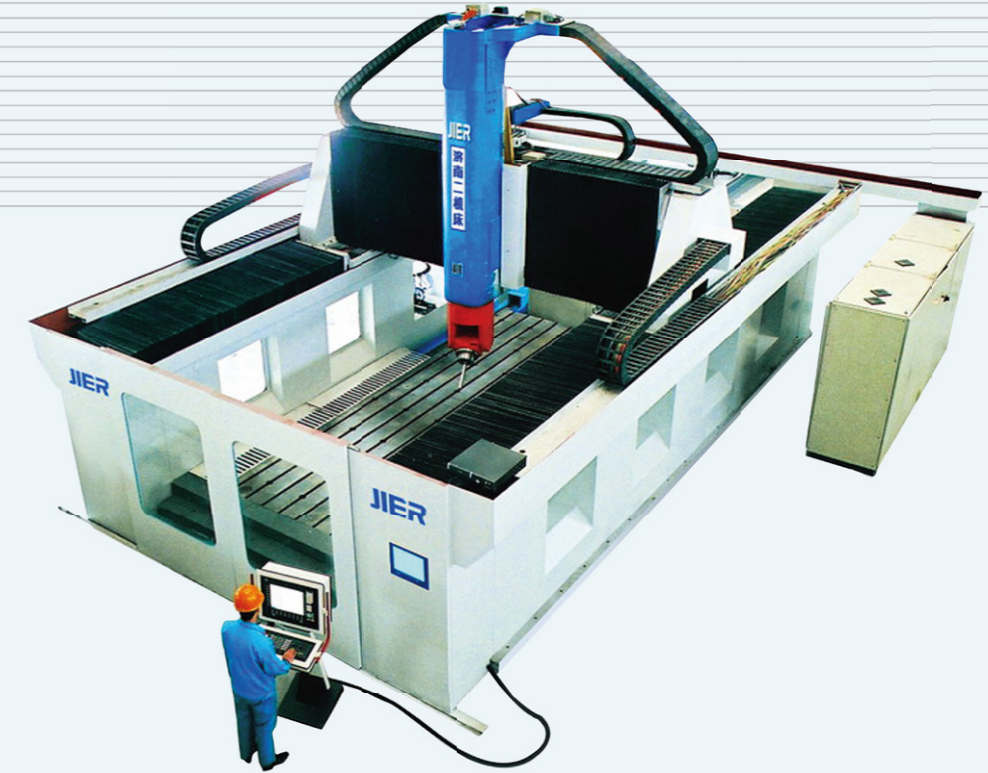
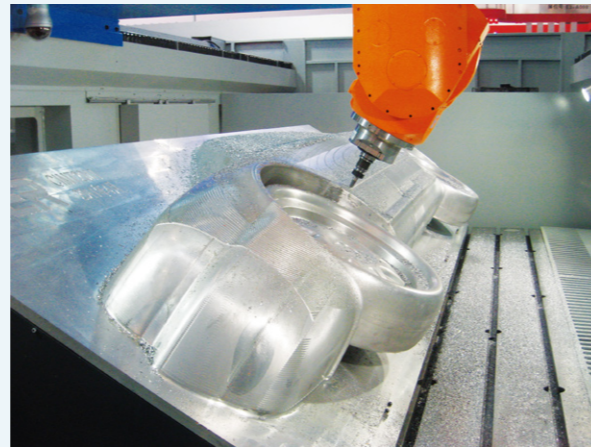
- X-axis: over-head crossrail moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway
- A-axis: the spindle of dual-swiveling head swings in vertical plane
- C-axis: the spindle of dual-swiveling head rotates in horizontal plane

Features:

- Good dynamic response and higher static rigidity
- Dual-swiveling milling head with large power and high speed
- Precision machining of 3D curved surfaces
- Linear guideways for X/Y/Z axis
- High-speed, high rigidity and good endurance of accuracy

Applications:

- Widely applied in aviation, aerospace, military defense, engine, shipbuilding, locomotive, automotive mould & die, water pump and machine tool sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKSV2515	XKSV2520	XKSV2525	XKSV2530	XKSV2535	XKSV2540	XKSV2550	
		XHSV2515	XHSV2520	XHSV2525	XHSV2530	XHSV2535	XHSV2540	XHSV2550	
Width of table (mm)		1500	2000	2500	3000	3500	4000	5000	
Distance between columns (mm)		2500	3000	3500/4600	4500	5000	5500	6500	
Max. load capacity of table per meter (kg/m)		5000							
Longitudinal stroke of gantry(X-axis) (mm)		4000~12000	6000~20000		6000~30000				
Transversal stroke of saddle(Y-axis) (mm)		2500	3000	3500	4000	4500	5000	6000	
Vertical stroke of ram milling head (Z-axis) (mm)		800	950	950/1250/1500	1250	1250	1250/1500	1500/2000	
Rotary angle of A-axis (swing range) (°)		±110°							
Rotary angle of C-axis (swing range) (°)		±200° (n×360°)							
Distance from spindle nose to table surface (mm)		250~1050	250~1200/1500/2000					500~2000/2500	
Feed rates of X-, Y-, and Z-axis (mm/min)		10~20000							10~10000
Rapid speeds of X-, Y-, and Z-axis (mm/min)		20000							10000
Rotary speeds of A- and C-axis (rpm)		0~8							
Rapid rotary speeds of A- and C-axis (rpm)		8							
Dual-swiveling milling head	Model	VX30/17		VX30/23		VX40/23		VX30,VX40/25	VX40/25
	Power of electric spindle (S6/S1) (kW)	40/30		34.5/30		52/40		38/30,56.8/40	56.8/40
	Taper of spindle	HSK-A63							HSK-A100
	Highest spindle speed (rpm)	24000		18000		24000		10000/15000	10000/15000
	Spindle torque (S6/S1) (N·m)	38.7/29.1		82.4/71.1		93.2/71.1		303/213/150	303/213/150
Capacity of tool magazine (XHSV25) (pcs)		16,20,24,40,60, Upon request of customer							
CNC system		Siemens 840D or other brand systems							
Drive device		Siemens 611D							

Remarks: 1. The length of table can be increased by increment of each meter
 2. If dual-swiveling universal milling head is used and when A-axis is in vertical position, the distance from spindle nose to table surface can be varied as per customer's requirement

XKSV27 / XHSV27

5-AXIS HIGH-SPEED BORING & MILLING MACHINE / CENTER

Gantry Type with traveling gantry & fixed crossrail

Scope of Specifications:

- Table width 2m~6m
- Table length 6m~30m
- Spindle power 30kW~40kW

Axes of Movement:

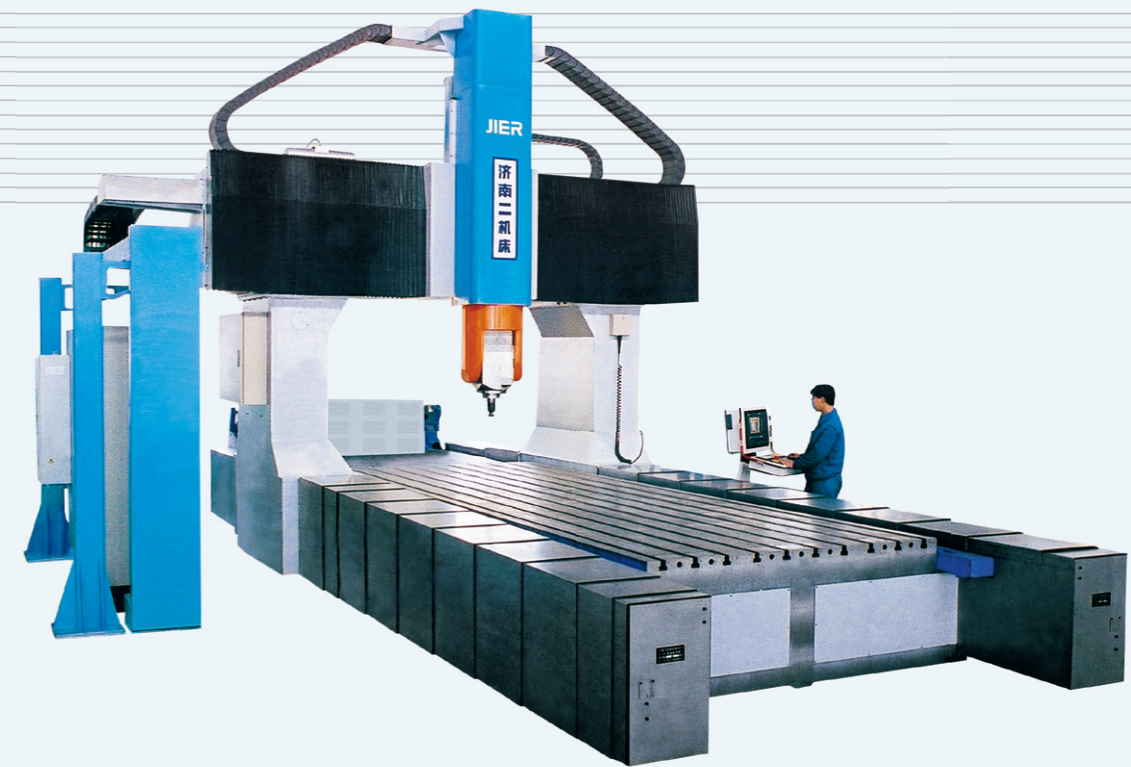
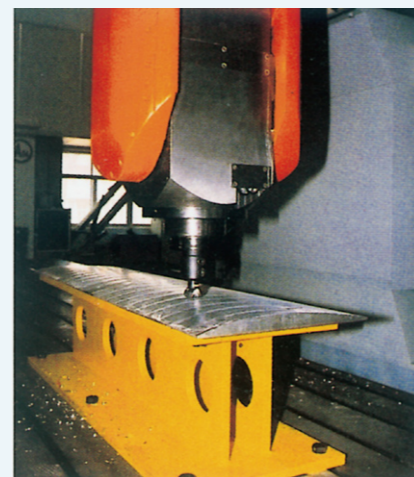
- X-axis: gantry moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram moves vertically along saddle guideway
- A-axis: the spindle of dual-swiveling head swings in vertical plane
- C-axis: the spindle of dual-swiveling head rotates in horizontal plane

Features:

- Good dynamic response and higher static rigidity for whole machine
- Dual-swiveling milling head with large power and high speed
- Precise cutting complicated 3D curved surface due to 5-axis performance
- Linear guideway for X/Y/Z-axis
- High-speed, high rigidity and good endurance of accuracy

Applications:

- Widely applied in aviation, aerospace, military defense, engine, shipbuilding, locomotive, automotive mould & die, water pump and machine tool sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKSV2720	XKSV2725	XKSV2730	XKSV2735	XKSV2740	XKSV2745	XKSV2750	XKSV2755	
		XHSV2720	XHSV2725	XHSV2730	XHSV2735	XHSV2740	XHSV2745	XHSV2750	XHSV2755	
Width of table	(mm)	2000	2500	3000	3500	4000	4500	5000	5500	
Distance between columns	(mm)	2600	3100	3600	4100	4600	5500	6000	6500	
Max. load capacity of table per meter	(kg/m ²)	15000								
Longitudinal stroke of gantry(X-axis)	(mm)	6000~20000			8000~30000				12000~30000	
Transversal stroke of saddle(Y-axis)	(mm)	2600	3100	3600	4100	4500	5500	6000	7000	
Vertical stroke of ram milling head (Z-axis)	(mm)	950	950	1250	1500	1500	1500	1500	2000	
Rotary angle of A-axis (swing range)	(°)	±110°						±105°		
Rotary angle of C-axis (swing range)	(°)	±200°						±360°	n×±360°	
Distance from spindle nose to table surface	(mm)	50~1000		200~1450	200~1450/200~1700		200~1700		200~2200	
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~20000						5~10000		
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	20000						15000		
Rotary speeds of A- and C-axis	(rpm)	0~8				0~60				
Rapid rotary speeds of A- and C-axis	(rpm)	8				60				
Dual-swiveling milling head	Model	VX30/17		VX30×230	VX40×230	VX30,VX34		VX30/2		
	Power of electric spindle (S6/S1)	40/30		34.5/30	40	38/30,43/34		38/30		
	Taper of spindle	HSK-A63								
	Max. spindle speed	24000		18000/17000		24000	10000/20000		10000	
	Spindle torque (S6/S1)	38.7/29.1		82.4/71.1		79.6	303/239		303/239	
Capacity of tool magazine (XHSV27)	(pcs)	20,24(Disc-type), or 40,60,80(Chain-type), on customer's request								
CNC system		Siemens 840D or other brand systems								
Drive device		Siemens 611D								
Remarks: 1. The length of table can be increased by increment of 1000mm 2. If dual-swiveling universal milling head is used and when A-axis is in vertical position, the distance from spindle nose to table surface can be varied as per customer's requirement										

XKV27

GANTRY / DOUBLE-GANTRY 5-AXIS BORING & MILLING MACHINE with mechanically driven dual-swiveling head and fixed crossrail

Scope of Specifications:

- Table width 2.5m~5m
- Table length 6m~10m
- Spindle power 51kW~60kW

Axes of Movement:

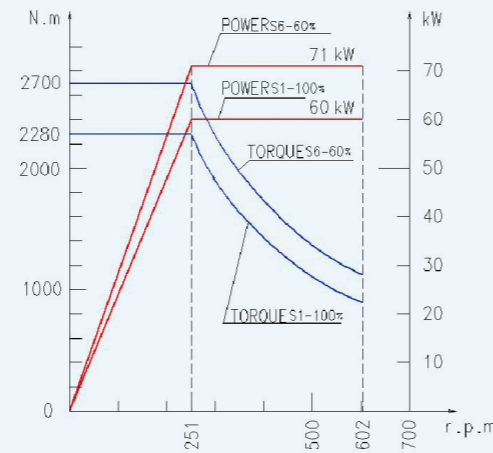
- X-axis: gantry moves longitudinally along bed guideway
- Y-axis: saddle moves transversally along crossrail guideway
- Z-axis: ram lifts vertically along saddle guideway
- A-axis: swing of spindle of double-swing angle CNC universal milling head in vertical plane
- C-axis: rotation of spindle of double-swing angle CNC universal milling head in horizontal plane

Features:

- High rigidity and long-term endurance of accuracy
- X-axis is equipped with a heavy-duty roller linear guideway, Y- and Z-axis with combined rolling and sliding guideway
- Pre-loaded dual rack & pinion driving mechanism on both sides of X-axis
- Mechanically driven dual-swiveling milling head with large power and torque

Applications:

- Widely applied in shipbuilding, power generation, water pump, automotive sectors for high precision and efficiency machining of 3D complicated surface



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	XKV2725	XKV2730	XKV2735	XKV2740	XKV2745	XKV2750	
Area of table (W×L)	(mm)	2500×6000	3000×6000	3500×8000	4000×8000	4500×8000	5000×10000	
Distance between columns	(mm)	4000	4500	5000	5500	6000	6500	
Max. load capacity of table per meter	(kg/m ²)	20000						
Longitudinal stroke of gantry(X-axis)	(mm)	6500			8500		10500	
Transversal stroke of saddle(Y-axis)	(mm)	3500	4000	4500	5200	5800	6000	
Vertical stroke of ram milling head (Z-axis)	(mm)	1250/1500			1500/2000			
Max. distance from spindle nose to table surface	(mm)	1600/2000			2000/2500			
Feed rates of X-, Y-, and Z-axis	(mm/min)	5~5000						
Rapid speeds of X-, Y-, and Z-axis	(mm/min)	8000						
Dual-swiveling milling head mechanically driven	Model	SVX51			SVX60			
	Rotary angle of A-axis (swing range)	(°)	±95°					
	Rotary angle of C-axis (swing range)	(°)	n×360°					
	Rotary speed of A-axis	(rpm)	0~6					
	Rotary speed of C-axis	(rpm)	0~5					
	Taper of spindle		ISO No.50					
	Power of spindle motor (S1/S6)	(kW)	51/68			60/71		
	Speed range of spindle	(rpm)	10~600(1600)					
Spindle torque(S1/S6)	(N·m)	1800/2400			2200/2600			
Overall dimensions (L×W×H)	(mm)	11500×8500×8500	11500×9000×8500	13500×9500×8500	13500×10000×8500	14500×10500×8800	16500×11000×8800	
Total weight, approx.	(kg)	230000	237000	258000	267000	276000	300000	
Remarks: 1.The length of table can be increased by increment of 1000mm 2. When A-axis is at 0° position, the distance from spindle nose to table surface can be varied upon request of customer								

GIMAX FLOOR-TYPE CNC BORING & MILLING MACHINE

Scope of Specifications:

- Spindle dia.: Φ160mm~Φ250mm
- Spindle power 40kW~105kW

Axes of Movement:

- X-axis: column moves longitudinally along bed guideway
- Y-axis: headstock moves up and down along column guideway
- Z-axis: ram moves forward and backward inside headstock
- W-axis: spindle moves forward and backward inside milling quill
- V-axis: rotary table moves linearly along its bed
- B-axis: rotary table turns itself

Features:

- Hydrostatic bearings for spindle
- Hydrostatic guideway of constant pressure and large section for higher rigidity
- Fully enclosed ram structure with 4-side hydrostatic guideways
- With accuracy compensating system for sag of ram, change of gravity center of headstock and milling accessories

Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation and machine tool sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	GIMAX160	GIMAX180	GIMAX200	GIMAX250	
Spindle dia.	(mm)	Φ160	Φ180	Φ200	Φ250	
Ram section	(mm)	480×480	550×550		600×600	
Taper of spindle		ISO No.50		ISO No.60		
Speed range of spindle	(rpm)	0~2000	0~1500		0~1250	
Power of spindle motor	(kW)	40	60	100	105	
Stroke of column (X-axis)	(mm)	8000 + n×1000				
Stroke of headstock (Y-axis)	(mm)	3000~4000	3000~5000	4000~6000	4000~7000	
Stroke of spindle (W-axis)	(mm)	800	1000	1250	1500	
Ram stroke (Z-axis)	(mm)	1000		1250	1500	
Feed rates of X- and Y-axis	(mm/min)	5~6000	5~6000	5~6000	5~3000	
Feed rates of Z- and W-axis	(mm/min)	5~6000	5~6000	5~6000	5~3000	
Rapid speeds of X- and Y-axis	(mm/min)	8000	8000	6000	4500	
Rapid speeds of Z- and W-axis	(mm/min)	6000	6000	6000	3000	
Capacity of tool magazine	(pcs)	40,50,60,80,120(Chain-type), Upon customer's request				
CNC system		Siemens 840D or other brand systems				
Drive device		Siemens 611D				
Optional		Extension, universal, right angle milling heads, facing head and rotary table etc.				
Overall dimensions (L×W×H)	(mm)	15000×7500×8000	15000×7500×9000	19000×7500×9000	19500×6400×11500	
Total weight, approx.	(kg)	90000	95000	115000	165000	
Rotary table	Table dimensions (L×W)	(mm)	2500×2500	3000×3000	3000×3500	3500×4000
	Max. loading capacity	(ton)	30	45	60	80
	Longitudinal linear motion of V-axis	(mm)	1500/2000/3000/4000			
	Feed rate of V-axis	(mm/min)	0~2000			
	Rotary angle of B-axis	(°)	n×360°			
Remarks: 1. X-axis stroke can be increased by increment of 1000mm. Y-axis stroke can be increased by increment of 500mm 2. W- and Z-axis strokes can be accumulated 3. Attachment milling head can be setup automatically and 1m stroke of X-axis will be occupied for realizing AAC						

TK69 FLOOR-TYPE CNC BORING & MILLING MACHINE

TKS69 FLOOR-TYPE HIGH-SPEED SERIES

Scope of Specifications:

- Spindle dia.: Φ160mm~Φ320mm
- Spindle power : 40kW~129kW

Axes of Movement:

- X-axis: column moves longitudinally along bed guideway
- Y-axis: headstock moves up and down along column guideway
- Z-axis: ram moves forward and backward along headstock
- W-axis: spindle moves forward and backward in milling spindle
- V-axis: rotary table moves linearly along its bed
- B-axis: rotary table turns itself

Features:

- Hydrostatic guideway of constant pressure and large section guideway for higher rigidity
- High rotation speed, high rigidity and long-term accuracy endurance
- Fully enclosed ram structure with 4-side hydrostatic guideways
- With accuracy compensating system for sag of ram, change of gravity center of headstock and milling accessories
- Oil atomizing lubrication for spindle bearings, with its thermal stability being kept by cycling cooling oil



Applications:

- Widely applied in heavy machinery, metallurgy, defense industry, shipbuilding, aerospace, energy generation and machine tool sectors etc



MAIN TECHNICAL SPECIFICATIONS

Technical specifications	Model	TK6916	TK6920	TK6926	TK6932
Spindle dia. (mm)		Φ160	Φ200	Φ260	Φ320
Ram section (mm)		500×550		600×650	680×780
Dia.of milling spindle (mm)		Φ320/Φ260	Φ320	Φ400	Φ450
Taper of spindle (7:24)		ISO No.50		ISO No.60	
Speed range of spindle (rpm)		0~800/0~2000	0~800/0~1500	0~1000	0~600
Power of spindle motor (kW)		55	71	100	129
Max. torque of milling spindle (N·m)		12000	13000	16754	20000
Stroke of column (X-axis) (mm)		6000+n×1000			
Stroke of headstock (Y-axis) (mm)		3000~5000		4000~6000	5000~8000
Stroke of boring bar (W-axis) (mm)		1200		1600	1800
Ram stroke (Z-axis) (mm)		1200	1200/1400	1600	2000
Feed rates of X- and Y-axis (mm/min)		5~6000	5~6000	5~6000	5~3000
Feed rates of Z- and W-axis (mm/min)		5~6000	5~6000	5~6000	5~3000
Rapid speeds of X- and Y-axis (mm/min)		8000	8000	6000	4500
Rapid speeds of Z- and W-axis (mm/min)		6000	6000	6000	3000
CNC system		Siemens 840D or other brand systems			
Optional		Extension, universal, right angle milling heads, facing head and rotary table etc.			
Overall dimensions (L×W×H) (mm)		14500×4850×10500	19000×4850×10500	20700×5600×11600	30000×11500×12500
Total weight, approx. (kg)		135000	150000	175000	245000
Rotary table	Table dimensions (L×W) (mm)	2500×2500	3000×3000	3000×3500	3500×4000
	Max. loading capacity (ton)	30	45	60	80
	Longitudinal linear motion of V-axis (mm)	1500/2000/3000/4000			
	Feed rate of V-axis (mm/min)	0~2000			
	Rotary angle of B-axis (°)	n×360°			
Remarks: 1. X-axis stroke can be increased by increment of 1000mm 2. W- and Z-axis strokes can be accumulated 3. In addition, TK69 and TKS69 series machines can be equipped tool magazine upon request of customers for automatic tool change (ATC)					

MACHINE ACCESSORIES

- Extension, right-angle, universal and narrow right-angle milling heads
- Dual-swiveling milling head of mechanical spindle, electric spindle driven mechanically or driven by torque motor
- Automatic attachment changer (AAC)
- Facing head
- Rotary table with linear motion



A portion of customers

