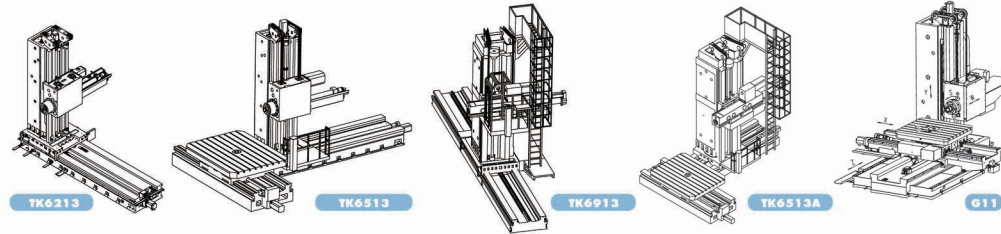


TK SERIES MOVING COLUMN BORING & MILLING MACHINE



SPECIFICATION	Travelling Column without Rotary Table						"I" Type Travelling Column with Rotary Table				Table Moving Type	
	TK6213	TK6216	With Ram Type				TK6513	TK6516	With Ram Type		G11	G11A
Boring Bar Diameter	Φ130mm	Φ160mm	TK6913	TK6916Q	TK6916	TK6920	Φ130mm	Φ160mm	TK6513A	TK6516A	Φ110mm	
Spindle Nose Outer Diameter	221.44mm	260mm	Φ130mm	Φ160mm	Φ160mm	Φ200mm	221.44mm	260mm	221.44mm	260mm		
Spindle Taper	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	ISO50	
Spindle Motors Recommended	30kw	37kw	37kw	41kw	51kw	55kw	30kw	37kw	30kw	37kw	15kw	
Spindle Speed	7-1500rpm	7-1500rpm	2-1500rpm	2-1000rpm	2-1000rpm	2-1000rpm	7-1500rpm	7-1500rpm	7-1500rpm	2-1500rpm	10-2800rpm	
Milling Spindle Max Output Torque			3150Nm	12100Nm	12100Nm	12100Nm						
Spindle Max Output Torque	2860Nm	3532Nm	2500Nm	5000Nm	5000Nm	6000Nm	2860Nm	3500Nm	3150Nm	3150Nm	1450Nm	
Spindle Max Axis Resist Force	20000N	35000N	25000N	50000N	50000N	50000N	25000N	35000N	35000N	25000N	15000N	
Tool Holder Taper			JT50, MAS403, BT50			JT50			JT50, MAS403, BT50		BT50	
Pull Stud			LD-50D, MAS403, P50T-1			LD-50D			LD-50D, MAS403, P50T-1		MAS403, P50T-1	
Ram Dimension	No	No	420x480mm		480x580mm		No	No	420x480mm			
Rotary Table Size (LxW)							1400x1600, 1800x2000, 2000x2000, 2000x2500mm				1250x1250mm 1250x1400mm	
T-Slot Size							28mm					
Table Load capacity							10000-20000kg				5000kg	
Travel	X axis	3000 +n*1000mm	6000+n*1000mm				2000, 2500, 3000, 4000mm	2000, 2500, 3000, 4000mm	2000, 2500, 3000, 4000mm	1400mm	1800mm	
	Y axis (Vertical)		2000, 2500, 3000mm	2000, 3000, 4000mm				1600, 2000, 2500mm	2000, 2500, 3000mm	1200mm	1400mm	
	W axis (Column or Table)			800mm				1250mm	2000mm	1200mm	1400mm	
	Y axis (Ram)			800mm				1100mm	1200mm			
	Z axis (Quill)	900mm	900mm	800mm				900mm	900mm	600mm		
Axis Drive Motors Recommended		50/40/40Nm	50/50/50/50Nm				40/40/40/40Nm	40/40/40/40Nm	40/40/40/40/40Nm			
Net Weight (Basic Model)	32000kg	42000kg	54000kg	59000kg	92000kg	103000kg	35000kg	43000kg	41000kg	51000kg	18000kg	20000kg

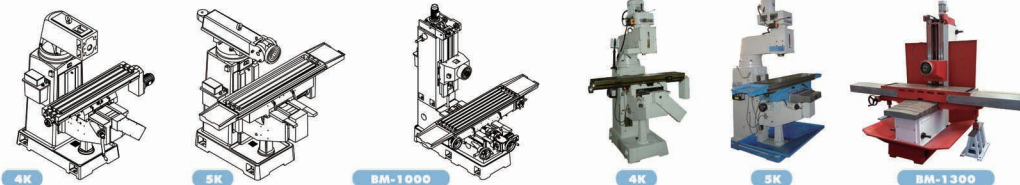
Main Feature & Standard Equipment:

- 1) High-class casting processed by Resin sand Mold and wood pattern
- 2) Top class imported Ball screws and nut set (PMI, HIWIN, KORTA, etc.) and Bearing (FAG, NSK, NTN, etc.)
- 3) X axis with Box Type Friction plus Roller
- 4) All Box Shape Friction Slideways are hardened and ground with Turcite B coat and precise scraping
- 5) Imported Roller Pack (INA etc.)
- 6) High Class Spindle & Boring Bar system
- 7) Stainless steel Telescopic protection (Keyarrow etc.) plus Bellow Type Protection
- 8) Central Automatic Lubrication system
- 9) Coolant System
- 10) Overhaul platform
- 11) High quality painting (Color can be special made according to order)

Optional Choose:

- 1) All kinds of milling heads: Extension Head, Right-Angle Head, Universal Head, Facing Head etc.
- 2) Coolant through Spindle (CTS)
- 3) ATC: Arm Type or Chain Type
- 4) Gear Box for Spindle
- 5) Different Style & Brand Rotary Table
- 6) Chip Conveyor
- 7) Outside Guarding: Standard or special made according to client's design
- 8) CNC Pre-installed for clients: Full Ready package delivery according to client's design.

CNC MILLING MACHINE CENTER



Main Feature & Standard Equipment:

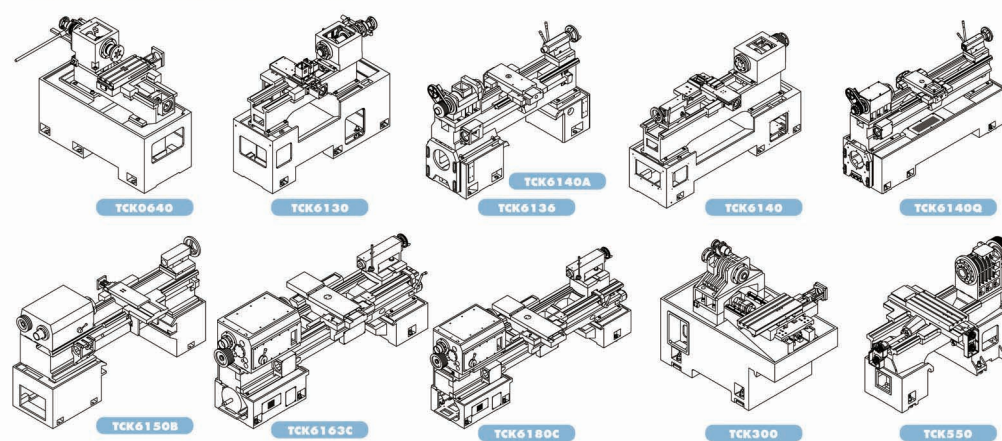
- 1) High-class casting processed by Resin sand and wood pattern
- 2) Top class Ball screws & nut set and Bearing
- 3) Imported Milling Head with 3 Options
- 4) Drive Teeth Belt and Pulley or Direct Drive Connectors
- 5) Stainless steel Telescopic protection
- 6) Central Automatic Lubrication system
- 7) Coolant System
- 8) Hardened & ground on all slideways and Turcite-B coated with precise scraping.
- 9) BM Series: Block type counter balance system
- 10) High quality painting (Color can be special made according to order)

Optional Choose:

- 1) Outside Guarding: Standard or special made according to clients design
- 2) CNC Pre-installed for clients: Full Ready package delivery according to clients design.

SPECIFICATION	Bed Type#M Series			Knee Type#K Series		
	BM-800	BM-1000	BM-1300	4K	5K	6K
Table Size(WxL)	330x1372mm	405x1372mm	405x1570mm	254x1372mm	330x1372mm	330x1372mm
Table Size(No-size/distance)	3-16/68mm	5-16/60mm	5-16/60mm	3-16/65mm	5-16/60mm	5-16/60mm
T-Load capacity	600kg	700kg	800kg	500kg	600kg	600kg
	800mm	1050mm	1300mm	800mm	800mm	1000mm
Travel	X axis	500mm	508mm	380mm	380mm	400mm
	Y axis	510mm	630mm	360mm	380mm	460mm
	Z1 axis(Stock/Knee)	125mm	125mm	125mm	125mm	125mm
	Z2 axis(Quill)	460mm	480mm	375mm	375mm	385mm
Spindle Nose to Column Slideway	110-680mm	110-740mm	110-740mm	50-465mm	50-465mm	50-560mm
Spindle Nose to Table Surface		NT40/105mm				
Spindle Taper/Quill Outside dia.						
Spindle Motor Power	3.75kw(SHP) option: 5.5kw(7.5HP)			3.75kw(SHP) option: 5.5kw(7.5HP)		
Spindle Speed	10 step: 60-3600 rpm			10 step: 60-3600 rpm		
	Variable: 50-3750 rpm			Variable: 50-3750 rpm		
Milling Head Tilt Angle	Right & Left: ±45°			Right & Left: ±45°		
	X/Y/Z axis Drive System			X/Y/Z axis Drive System		
X/Y/Z axis Drive Motors Recommended	6/6/6Nm	6/6/6Nm	8/6/6Nm	6/6/6Nm	6/6/6Nm	6/6/6Nm
Net Weight	2200kg	3000kg	3800kg	1800kg	2400kg	2600kg
Column or Ram Style	^ Shape			Fixed or Movable Ram		
Y axis Drive Motor Location	Back	Front	Front	Front	Front	Front

FLAT BED CNC LATHE FRAMES



TCK SERIES FLAT BED FRICTION SLIDWAY TYPE CNC LATHE FRAME

SPECIFICATION	TCK0640	TCK6130	TCK6136	TCK6140A	TCK6140	TCK6140Q	TCK6150B	TCK6163C	TCK6180C	TCK300	TCK550
Capacity	Max Swing Diameter Over Bed	Φ320mm	Φ360mm	Φ360mm	Φ400mm	Φ400mm	Φ500mm	Φ630mm	Φ800mm	Φ350mm	Φ650mm
	Max Swing Diameter Over Toolpost	Φ130mm	Φ155mm	Φ180mm	Φ200mm	Φ235mm	Φ290mm	Φ350mm	Φ480mm	Φ280mm	Φ320mm
	Max Turning Length	200	350mm	650mm	650mm	650mm	1000mm	1000/1500/2000mm	1000/1500/2000mm	350mm	500mm
	Distance between Centers		350mm	750mm	750mm	1000mm	1000/1500/2000mm	1000/1500/2000mm	1000/1500/2000mm		
Spindle & Chuck	Spindle Nose Spec.	A2-5	A2-6	A2-6	A2-6	A2-6	D-8/1:20	C-11/1:20	C-11/1:20	A2-4/5C	A2-6 *A2-8
	Chuck recommended	130/5C	160/5C	Φ200mm	Φ200mm	Φ200mm(5C)	Φ200mm	Φ250mm	Φ320mm	Φ320mm	Φ160mm(5C) Φ200mm, *Φ250mm
	Spindle Motor recommended	2.2Kw	3 Kw	5.5Kw	5.5Kw	5.5-7.5Kw	7.5Kw	7.5-11Kw	11Kw	3Kw	11-15Kw
	Spindle Speed	Stepless: 200-3000rpm	Stepless: 200-2800rpm	Stepless: 200-2800rpm	Stepless: 75-2500rpm	Stepless: 200-2800rpm	Stepless: 75-2600rpm	3 shifts: 60-226rpm, 220-917rpm, 700-1860rpm	3 shifts: 54-950rpm	3 shifts: 200-2800rpm	Stepless: 75-3500rpm
X & Z axis	Spindle Bore	Φ40mm	Φ49mm	Φ57mm	Φ57mm	Φ58mm	Φ57mm	Φ82mm	Φ100mm	Φ49mm	Φ66mm, *Φ86mm
	Bar through Capacity	Φ32mm	Φ40mm	Φ48mm	Φ48mm	Φ48mm	Φ48mm	Φ78mm	Φ95mm	Φ40mm	Φ52mm, *Φ72mm
	X axis Ball Screw Spec.	2504	2004	2504	2504	2504	2504	3205	3205	2506	3208
	Z axis Ball Screw Spec.	3206	3206	4006	4006	4006	4006	4010	5010	5010	3206
Tailstock	X axis Motor recommended	4Nm	4Nm	6Nm	6Nm	6Nm	6Nm	7.5Nm	15Nm	15Nm	4Nm
	Z axis Motor recommended (Nm)	4Nm	4Nm	7.5Nm	7.5Nm	7.5Nm	7.5Nm	15Nm	20Nm	20Nm	4Nm
	X/Z Motor Connection	Direct drive	Direct drive	Direct drive	Direct drive	Direct drive	X: Belt Drive Z: Direct Drive	Direct drive	Direct drive	Direct drive	X/Z: Belt Drive Z: Central Drive
	Quill Diameter	Φ50mm	Φ55mm	Φ60mm	Φ60mm	Φ60mm	Φ75mm	Φ95mm	Φ95mm		No Tailstock
Others	Quill Stroke	120mm	120mm	120mm	120mm	120mm	150mm	250mm	250mm		No Tailstock
	Quill Taper	Morse #3	MT4	MT4	MT4	MT4	MT5	MT5	MT5		
	Bed Slideways wideness	260mm	320mm	320mm	320mm	320mm	390mm	550mm	550mm		
	Dimension (LxWxH)	1450x1420x1350mm	1500x960x1320mm	2030x800x1240mm	2060x820x1250mm	2300x1550x1100mm	2238x650x1240mm	2485/2975/3485 x900x1330mm	3000/3500/4200 x1045x1500mm	3000/3500/4200 x1045x1500mm	1390x1400x800mm
Net Weight (Approx.)	1000kg	1000kg	1100kg	1100kg	1400kg	1800kg	2400/2700/3000kg	3000/3350/3700kg	3100/3450/3800kg	1500kg	1500kg

Main Feature & Standard Equipment:

1. High-class casting processed by Resin sand and wood Pattern;
2. High-class Ball screws and Nut sets and Bearing;
3. Hardened and Ground Slideways with Precise Scraping;
4. Integrated Spindle Set, Pulley and Belt;
5. Drive connector;
6. Chuck Adaptor;
7. Centralized Automatic Lubrication system;
8. High quality painting (Color can be special made according to order)

Optional Choose:

1. Electrical Tool Post;
2. Gang Type Tool Holder;
3. Manual or hydraulic chuck;
4. Hydraulic Station and whole set Pipes System;
5. Outside Guarding: Standard or special made according to clients design;
6. CNC Pre-installed for clients: Full Ready package delivery according to clients design.