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铸就国内高端车床品牌

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的研发与制造

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排刀车床系列

ROW CUTTER LATHE SERIES

Chuck size: 5",6",8"

Bar trough : Φ 25,36,46,52mm

Cutting diameter: Φ 120,150,250mm

Cutting length: 300mm

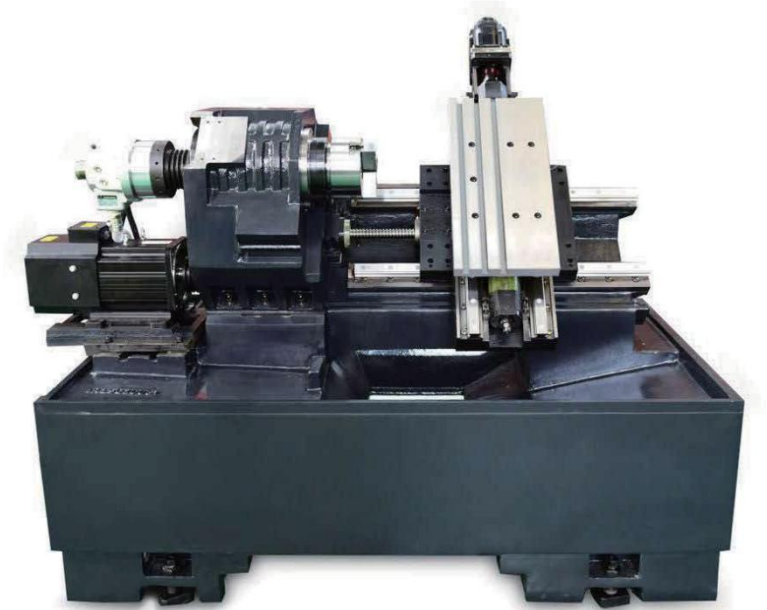
Spindle nose: A2-4, A2-5, A2-6

Tool number: 4, 6, 8, 10pcs



ROW CUTTER SERIES

- 45 degree full body casting design,high rigidity.
- Row cutter design,change tool fast and precision,save time and low maintenance cost.
- Unit spindle, high radial rigidity, stable thermal temperature rise, small thermal deformation and high dynamic rotation accuracy.
- Be able to complete the internal and external cylindrical surface, cone surface, arc surface, end face, groove, internal and external thread chamfering and other working procedures of various parts.



	TX-25	TX-36	TX-46	TX-46D	TX-52
Process capacity					
ROTARY OVER SLIDE	Φ320mm	Φ320mm	Φ400mm	Φ400mm	Φ400mm
MAX CUTTING DIA	Φ300mm	Φ300mm	Φ300mm	Φ300mm	Φ300mm
STANDARD CUTTING DIA	Φ120mm	Φ120mm	Φ150mm	Φ150mm	Φ250mm
CUTTING LENGTH	Φ320mm	Φ320mm	Φ340mm	Φ300mm	Φ340mm
COLLET/CHUCK	Φ5"	Φ5"	Φ6"	Φ6"	Φ8"
BAR TROUGH	Φ25mm	Φ36mm	Φ42mm	Φ42mm	Φ52mm

SPINDLE

SPINDLE BORE	Φ36mm	Φ46mm	Φ56mm	Φ56mm	Φ66mm
SPINDLE BEARING	FΦ60mm RΦ55mm	Φ70mm	Φ80mm	Φ80mm	FΦ100mm RΦ90mm
CYLINDER DIA	Φ5"	Φ5"	Φ6"	Φ6"	Φ8"
SPINDLE NOSE	A2-4	A2-4	A2-5	A2-5	A2-6
SPINDLE MOTOR	7.4KW	7.5KW	11KW	11KW	11KW
MOTOR SPEED	3000rpm	2000rpm	2000rpm	2000rpm	2000rpm
SPINDLE DRIVE TYPE	DDS	BELT	BELT	BELT	BELT
TRANSMISSION RATIO	1:1	1:1	1:1.1	1:1.1	1:0.8
SPINDLE SPEED	0~8000rpm	0~5000rpm	0~4500rpm	0~4500rpm	0~4200rpm
SPINDLE RATED SPEED	3000rpm	2000rpm	2200rpm	2200rpm	1600rpm
SPINDLE POSITION	0.001	-	-	-	-
Dynamic accuracy	±0.02°	-	-	-	-

	TX-25	TX-36	TX-46	TX-46D	TX-52
X,Z AXIS					
X/Z AXIS TRAVEL	420/320mm	420/320mm	460/340mm	460/340mm	460/340mm
X/Z AXIS RAPID FEED	30m/min	30m/min	30m/min	30m/min	30m/min
X/Z LINEAR GUIDE	30mm	30mm	35mm	30mm	35mm
X/Z AXIS MOTOR	1.7KW	1.7KW	1.7KW	1.7KW	1.7KW
X/Z AXIS DIA/PITCH	Φ25mm,Φ32mm/Pitch10		Φ32mm/Pitch10		
X/Z REPEAT POSITION	0.005	0.005	0.005	0.005	0.005

TOOL CHANGER(GANG TYPE)

TOOLS NUMBER	6	6	6	10	4
SQUARE CUTTER	20mm	20mm	20mm	20mm	25mm
BORING TOOL BAR DIA	Φ25mm	Φ25mm	Φ25mm	Φ25mm	Φ32mm

OTHERS

STANDARD CONTROLLER	SYNTEC21TA				
VOLTAGE/TOTAL POWER	380V/15KV A	380V/15KV A	380V/19KV A	380V/20KV A	380V/19KV A
HYDRAULIC STATION VOLUME	30L	30L	30L	30L	30L
COOLING MOTOR POWER	0.37KW	0.37KW	0.55KW	0.55KW	0.55KW
MACHINE WEIGHT	1800KG	1900KG	2700KG	2800KG	2800KG
MACHINE SIZE (LXWXH)	1750X1590X1800mm		2200X1600X1700mm		

刀塔车床系列

TURRET LATHE SERIES

Chuck size: 6",8",10",12"

Bar trough: Φ 42,52,75mm

Cutting diameter Φ 280,450,630mm

Cutting length: 300mm, 500mm, 1000mm

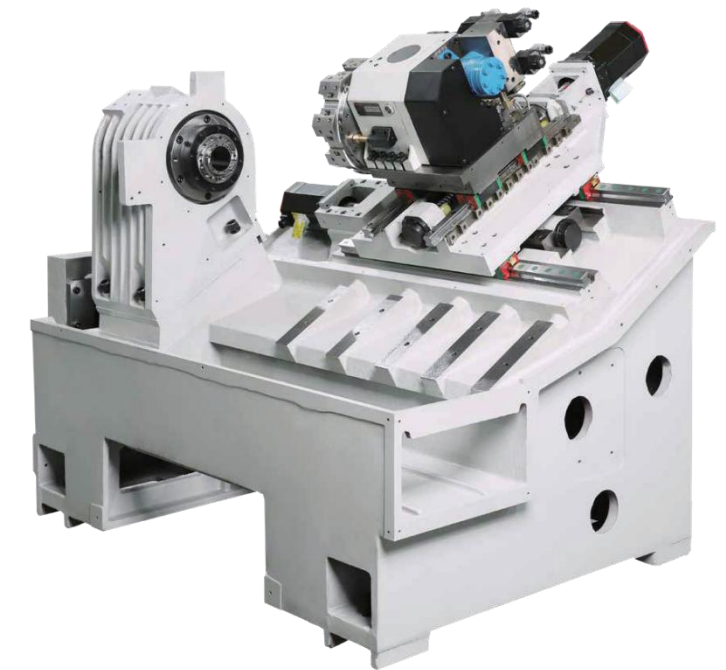
spindle nose: A2-5, A2-6, A2-8

Tool number: 8,12



TURRET LATHE SERIES

- 30 degree full body casting design, high rigidity.
- High grade mihanna cast iron is used. All castings are made of HT300 material. The internal stress is removed by artificial aging (heat treatment) and natural aging, which provides guarantee for the best rigidity, stability and accuracy retention.
- High precision unit spindle, high radial rigidity, stable thermal temperature rise, small thermal deformation and dynamic rotation accuracy.
- Servo turret, precision hydraulic tailstock, can automatically complete internal and external cylindrical surface, internal and external thread, conical surface, arc surface, end face, groove, chamfering and other processes for long and short shaft and disc parts



TURRET LATHE SERIES

07 / 08

	TX-6A	TX-8A	TX-10A	TX-12A	
(300 500)					
PROCESS CAPACITY					
Rotary over slide	Φ400mm	Φ400mm	Φ560mm	Φ560mm	Φ580mm
Max cutting dia	Φ380mm	Φ380mm	Φ420mm	Φ420mm	Φ500mm
Standard cutting dia	Φ150mm	Φ200mm	Φ200mm	Φ250mm	Φ300mm
Max cutting length	300mm	300mm	470mm	470mm	1000mm
Chuck size	Φ6"	Φ8"	Φ8"	Φ10"	Φ12"
Bar trough	Φ42mm	Φ52mm	Φ52mm	Φ52mm	Φ72mm

spindle

	TX-6A	TX-8A	TX-10A	TX-12A	
Spindle bore	Φ56mm	Φ66mm	Φ66mm	Φ66mm	Φ87mm
Spindle bearing dia	Φ80mm	FΦ100mm, RΦ90mm		FΦ100mm, RΦ90mm	FΦ130mm, RΦ120mm
Hydraulic cylinder	Φ6"	Φ8"	Φ8"	Φ10"	Φ12"
Spindle nose	A2-5	A2-6	A2-6	A2-6	A2-8
Spindle motor	11KW	11KW	11KW	11KW	15KW
Motor Rated speed	2000rpm	1600rpm	1500rpm	1500rpm	1000rpm
Spindle drive type	belt	belt	belt	belt	belt
Transmission ratio	1:1.1	1:0.8	1:0.8	1:0.8	1:1
Spindle speed	0~4500rpm	0~4200rpm	0~4200rpm	0~3500rpm	0~3000rpm
Spindle Rated speed	2000rpm	1600rpm	1200rpm	1200rpm	1000rpm

X&Z

	TX-6A	TX-8A	TX-10A	TX-12A	
X/Z axis travel	180/320mm	180/320mm	270/610mm	270/610mm	350/1120mm
X/Z rapid feed	30m/min	30m/min	30m/min	30m/min	12/20m/min
X/Z linear guide	30mm	30mm	45mm	45mm	55mm
X/Z axis motor	1.7KW	1.7KW	2.4KW	2.4KW	2.5KW
X/Z axis ball screw	Φ32mm/Pitch10		X axisΦ32mm Z axisΦ40mm/Pitch10		X:Φ40mm/Pitch 06 Z:Φ50mm/Pitch 10
X/Z repeat position	0.005mm	0.005mm	0.005mm	0.005mm	0.005mm

	TX-6A	TX-8A	TX-10A	TX-12A	
(300 500)					
TURRET					
Turret tools number	8	8	12	12	12
Drive motor	DELTA	DELTA	DELTA	DELTA	DELTA
Tool change time	0.2s(adjacent tool)/0.6s(Opposite side tool)				
Square cutter size	25mm	25mm	25mm	25mm	25mm
Boring bar diameter	Φ40mm	Φ40mm	Φ40mm	Φ40mm	Φ40mm

living tool turret(optional)

	TX-6A	TX-8A	TX-10A	TX-12A	
Turret model	BMT40	BMT40	BMT55	BMT55	BMT55
Max cutting length	266mm	266mm	400mm	400mm	800mm
Tool number	12	12	12	12	12
Living tool motor	2.3KW	2.3KW	3.1KW	3.1KW	3.1KW
Living tool motor torque(NM)	11.5	11.5	15	15	15
Drive motor	SYNTEC	SYNTEC	SYNTEC	SYNTEC	SYNTEC
Change tool speed	0.27s/0.57s	0.27s/0.57s	0.37s/0.72s	0.37s/0.72s	0.37s/0.72s
Square cutter	20mm	20mm	25mm	25mm	25mm
Boring bar dia	Φ32mm	Φ32mm	Φ40mm	Φ40mm	Φ40mm
Living head	1~13mmER20	1~13mmER20	1~16mmER25	1~16mmER25	1~16mmER25
Living tool speed	5000rpm	5000rpm	4000rpm	4000rpm	4000rpm

TAILSTOCK

	TX-6A	TX-8A	TX-10A	TX-12A	
Sleeve taper	MT#4	MT#4	MT#4	MT#4	MT#5
Sleeve dia/travel	Φ70/70mm	Φ70/70mm	Φ80/80mm	Φ80/80mm	Φ100/120mm
Tailstock travel	270mm	270mm	460mm	460mm	1000mm
sleeve by program	yes	yes	yes	yes	yes
Tailstock movement	manual	manual	manual	manual	manual

OTHERS

	TX-6A	TX-8A	TX-10A	TX-12A	
Standard controller	SYNTEC21TA				FAUNCOI-TF
Voltage/power require	380V/20KVA	380V/20KVA	380V/25KVA	380V/25KVA	380V/30KVA
Hydraulic station	60L	60L	60L	60L	60L
cooling motor	0.55KW	0.55KW	0.55KW	0.55KW	0.55KW
Machine weight	3000KG	3050KG	3800KG	3800KG	6500KG
Machine size (LXWXH)	2200X1600X1700mm		2600X1800X1900mm		3800X1800X2300mm

车铣复合系列

TURNING AND MILLING SERIES

Chuck size: 5", 6", 8"

Cutting length: 200mm, 300mm, 500mm

Bar trough: Φ 36, 46, 52mm

Spindle nose : A2-5, A2-6

Cutting diameter: Φ 120, 150, 250mm

Tool number: 12, 16, 18 tools



TURNING AND MILLING

- It has the compound processing ability of turning, milling, drilling, attacking and carving. The processing ability is very strong and the cost performance is very high. It is especially suitable for the processing of large quantities of complex parts.
- TX-46MY model : turret+Longitudinal layout of y-axis milling, for short parts high precision turning and milling. TX-6/8AMY installed with 12 stations living turret with Y axis , for long parts machining.
- High precision unit spindle + magnetic ring + disc brake, c-axis indexing accuracy is high, shaft radial rigidity is high, spindle thermal temperature rise is stable, thermal pressure is small, dynamic rotation accuracy is high
- This machine has reasonable design and layout, with the C axis (spindle), X · Y · Z · A / B axis CNC interpolation function, to achieve multi axis linkage turn milling composite processing
- Optional with bar feeder and workpiece collector, to realize high efficiency and high precision automatic machining of complex parts



TURNING AND MILLING SERIES(XYZ,B,C AXIS)

11/12

	TX-46MY	TX-6AMY	TX-8AMY
PROESS CAPACITY			
Rotary over slide	Φ350mm	Φ400mm	Φ560mm
Max cutting dia	Φ200mm	Φ225mm	Φ450mm
Standard cutting dia	Φ150mm	Φ150mm	Φ200mm
Max cutting length	Φ250mm	Φ240mm	Φ400mm
Chuck size	Φ6"	Φ6"	Φ8"
Bar trough	Φ 46mm	Φ 42mm	Φ 52mm

SPINDLE

Spindle bore	Φ56mm	Φ56mm	Φ66mm
Spindle bearing dia	Φ80mm	Φ80mm	FΦ100mm, RΦ90mm
Hydraulic cylinder	Φ6"	Φ6"	Φ8"
Spindle nose	A2-5	A2-5	A2-6
Spindle motor	11KW	11KW	11KW
Motor Rated speed	2000rpm	2000rpm	1500rpm
Spindle drive type	BELT	BELT	BELT
Transmission ratio	1:1	1:1.1	1:0.8
Spindle speed	0~4500rpm	0~4500rpm	0~4200rpm
Spindle Rated speed	2000rpm	2000rpm	1200rpm
Minimum spindle positioning accuracy	0.001° spindle motor+magnetic ring+disc brake		
Dynamic accuracy	±0.02° spindle motor+magnetic ring+disc brake		

X&Z axis

X/Y/Z axis travel	350/220/300mm	110/70/250mm	200/100/500mm
X/Y/Z axis rapid feed	24/16/24m/min	28/8/28m/min	28/8/28m/min
X/Y/Z linear guide	30mm	30mm	45/30/45mm
X/Y/Z axis motor	2.4/1.7/2.4KW	2.4/1.7/2.4KW	2.4/1.7/2.4KW
X/Y/Z axis ball screw	Φ32, 25, 32mm/Pitch10	Φ32mm/Pitch10	Φ32, 32, 40mm/Pitch10
X/Y/Z repeat position	0.004mm	0.004mm	0.004mm

	TX-46MY	TX-6AMY	TX-8AMY
TOOL CHANGER			
Max cutting length	250mm	240mm	400mm
Tool number	16	12	12
Living tool motor	1.7/1.7KW	2.3KW	3.1KW
Living tool motor torque(NM)	8.34N-m	11.5N-m	15N-m
Drive motor	SYNTEC	SYNTEC	SYNTEC
Change tool speed	0.27s/0.57s	0.27s/0.57s	0.37s/0.72s
Square cutter	20mm	20mm	20mm
Boring bar dia	Φ25mm	Φ32mm	Φ32mm
Living head	1~16mm, RE25	1~13mm, RE20	1~16mm, RE25
Living tool speed	10~3000rpm	10~5000rpm	10~4000rpm

TAILSTOCK

Sleeve taper	-	MT#4	MT#4
Sleeve dia/travel	-	Φ70/70mm	Φ80/80mm
Tailstock travel	-	270mm	400mm
sleeve by program	-	YES	YES
Tailstock movement	-	MANUAL	MANUAL

OTHERS

Standard controller	SYNTEC21TB	SYNTEC21TB	SYNTEC21TB
Voltage /power require	380V/25KVA	380V/26KVA	380V/30KVA
Hydraulic station	60L	60L	60L
Cooling motor	0.55KW	0.55KW	0.55KW
Machine weight (kg)	3000	3200	4000
Machine size (LXWXH)	2200X1600X1900mm	2200X1600X1700mm	2700X1800X1900mm