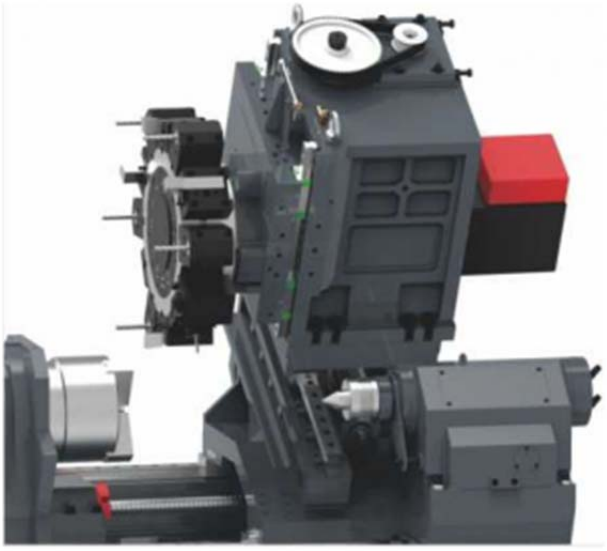
HUR-TM CNC Turn-milling Machine

Those machines are multi-tasking, multi-function CNC machines used for producing complex workpieces in one operation. These machines are capable of turning a workpiece and applying rotating tooling operations.



INTEGRATED POSITIVE Y AXIS

Longmen structure, super rigid

Integrated positive Y axis structure belongs to high-rigidity heavy cutting and its performance is better than the interpolation Y axis.

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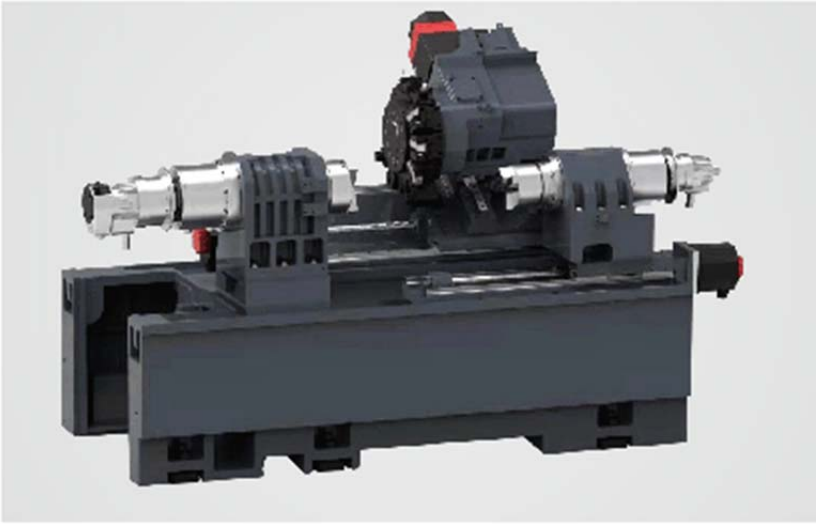
a. Single Y axis motion heavy cutting is better than interpolation Y axis and the Y axis is perpendicular to the X axis.

b. The plane contour processing is smoother and flatter.

c. More convenient for compound surface and contour processing. "Positive Y" turn-milling combined equipment has obvious advantages in machining plane milling compared with "interpolation Y" turn-milling combined. The movement of the "Positive Y" Y-axis is perpendicular to the X-axis, which is a single-axis movement and the "interpolation Y" Y-axis movement is to interpolate a straight line through the simultaneous movement of X-axis and Y-axis, the flatness of the milling plane and the comparison of the “positive Y" axis turn-milling combined, "Positive Y" axis turn-milling combined processing is obviously bright and flat



Double fixed ball screw

High-quality ball screws and roller guides from top global manufacturers are used. Although expensive, only high-quality products can meet the high precision and long service life required by customers.

Direct-Coulled Servomotors

The servo motor is directly connected to the ball screw via a steel coupling, which ensures no degeneration and misalignment even under heavy loads. This will greatly improve positioning accuracy, and thread and contour machining will be more accurate.

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Travel	Max. Turning Diameter on the Bed	mm	φ600	φ600	φ600
	Max. Processing Diameter	mm	φ320	φ300	φ400
	Max . Processing Diameter on the Tool Holder	mm	φ220	φ220	φ380
	Max. Processing Length	mm	250	250	370
	Distance Between Centers	mm	380	380	600
Spindle Motor Hydrocylinder Chuch Parameter	Spindle Nose	type	A2-5	A2-6	A2-6
	Max . Speed of Spindle	rpm	5500	4300	4200
	Oil Cylinder/ Chuck	Inch	6″	8″	8″
	Spindle Bore	mm	φ56	φ65	φ65
	Bar Diameter	mm	φ45	φ52	φ52
	Direct Drive Spindle Motor Power	kw	17.5	22	22
X/Z/Y Axis Feed Parameter	X Travel	mm	180	180	280
	X/Z Linear Guide Specification	spes	35/35Rollller	35/35Rollller	35/35Rollller
	Z Travel	mm	-	300	600
	X/Z/Y Motor Power	kw	1.8/1.8/1.0	1.8/1.8/1.0	1.8/1.8/1.0
	X/Z//Y Rapid Traverse	m/min	30/30/10	30/30/10	20/20/10
	Positioning Accuracy	mm	±0.005	±0.005	±0.005
	Repeat Positioning Accuracy	mm	±0.003	±0.003	±0.003
Turret Parameter	Tool Position	pcs	BMT45-12T	BMT45-12T	BMT55-12T
	Power Turret Motor	kw	2.2/3.7	2.2/3.7	2.2/3.7
	Square Tool Holder	mm	20×20	20×20	20×20
	Round Boring Tool Holder	mm	φ32	φ32	φ40
	Adjacent Tool Change Time	sec	0.15	0.15	0.15
	Positioning Accuracy	/	±2″	±2″	±2″
	Repeat Positioning Accuracy	/	±1″	±1″	±1″
Tailstock Parameters	Programmable Hydraulic Tailstock	/		√	√
	Max . Travel of Tailstock	mm	360	360	440
	Tailstock Sleeve Taper Hole	type	MT 5#	MT 5#	MT 5#
	Sleeve Diameter	mm	/	/	/
	Sleeve Travel	mm	/	/	/
Mechanical Size	Machine Size	mm	2300×1800×1700	2300×1800×1700	2620×2200×1920
	Machine Weight	kg	3700kg	3800kg	5200kg

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Servo Automatic Bar Feeder

TENOLY feeders feature a heavy-duty and automated design,

It significantly increases productivity and simplifies turning operations.

Parts Catcher

The workpiece catcher is designed with the principle of mechanical linkage, which can be quickly

connected with the finished product after processing.

THK roller linear guide

The linear guide has zero clearance, arc cutting, bevel cutting, and the surface texture is relatively uniform. It is suitable for high-speed operation and greatly reduces the driving horsepower required for the machine Linear guide rails use rolling instead of sliding, with small friction loss, sensitive response and high positioning accuracy. It can bear the load inthe up, down, left and right directions at the same time. Under the load, the contact surface of the track is still in multi-point contact, and the cutting rigidity will not be reduced; Easy and interchangeable assembly and simple lubricating structure; the linear guides have very little wear and long lasting.

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THK Ball Screw

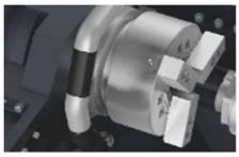
Using high-precision ball screw, with nut preloading and screw pretensioning treatment, the backlash and temperature rise and elongation are eliminated in advance, showing excellent positioning and repeatability.

Direct drive with servo motor to reduce backlash error.

High Precision Motorised Arm for Lathe

Pull-down tool setter with high precision repeatability Available in a variety of different sizes to meet various industrial needs Available in a variety of standard sizes, as well as custom-made steel measuring arms with low coefficient of expansion
Use a robust zirconia probe
Takes up little machine space when not in use

Hydraulic Chuck Workholding



The lathe is equipped with hydraulic through-hole chuck as standard. The chuck can be customized according to customer needs, and a variety of options will give you the most suitable clamping chuck.

Secondary Spindle

Both ends of the workpiece can be machined at the same time in one clamping, which greatly simplifies the manual operation.

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