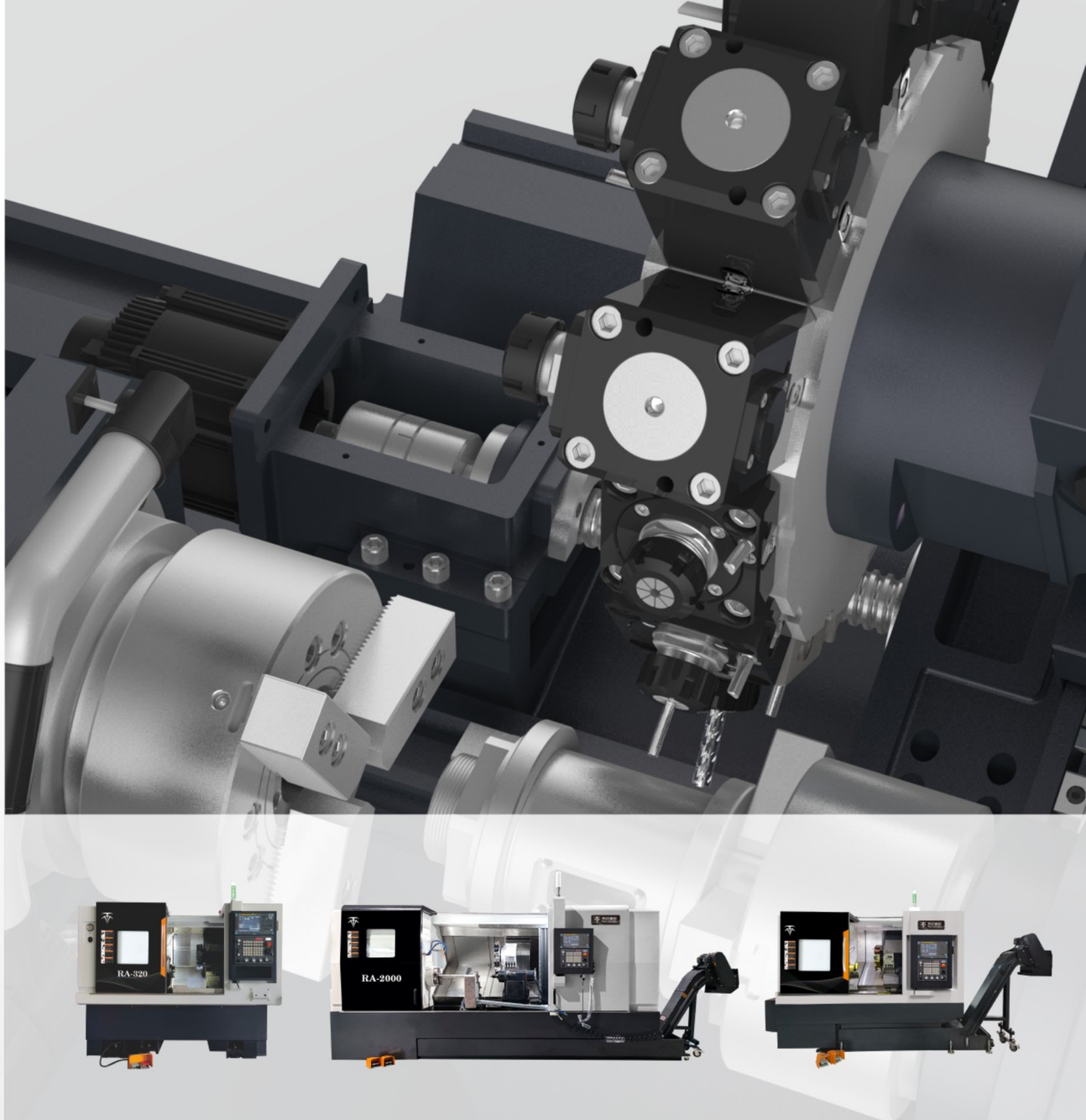


Ryan precision

Dongguan Rui an Precision Machinery Co.

Address: No. 8, Tiankeng High-tech Road, Hengli Town, Dongguan City



Ryan precision



ABOUT RUI AN

Since its establishment, Ruian CNC has been committed to the research and development, manufacturing and sales of industrial intelligent CNC lathes as the enterprise orientation, always adhering to the customer demand as the core, paying attention to every detail of the CNC lathe.

The company has been deeply involved in the CNC lathe industry for many years and has an experienced technical team to provide customers with a full range of pre-sale, in-sale and after-sales service guarantees.

The company now has high-performance HMS series, cost-effective QPR series, including CNC lathes for automation and robots, high-precision turning and milling compounds, multi-axis composite turning and milling compounds, etc., and its customers are all over the new energy vehicles, military industry, 3C, 5G communications, medical equipment, aerospace, construction machinery and other industries.





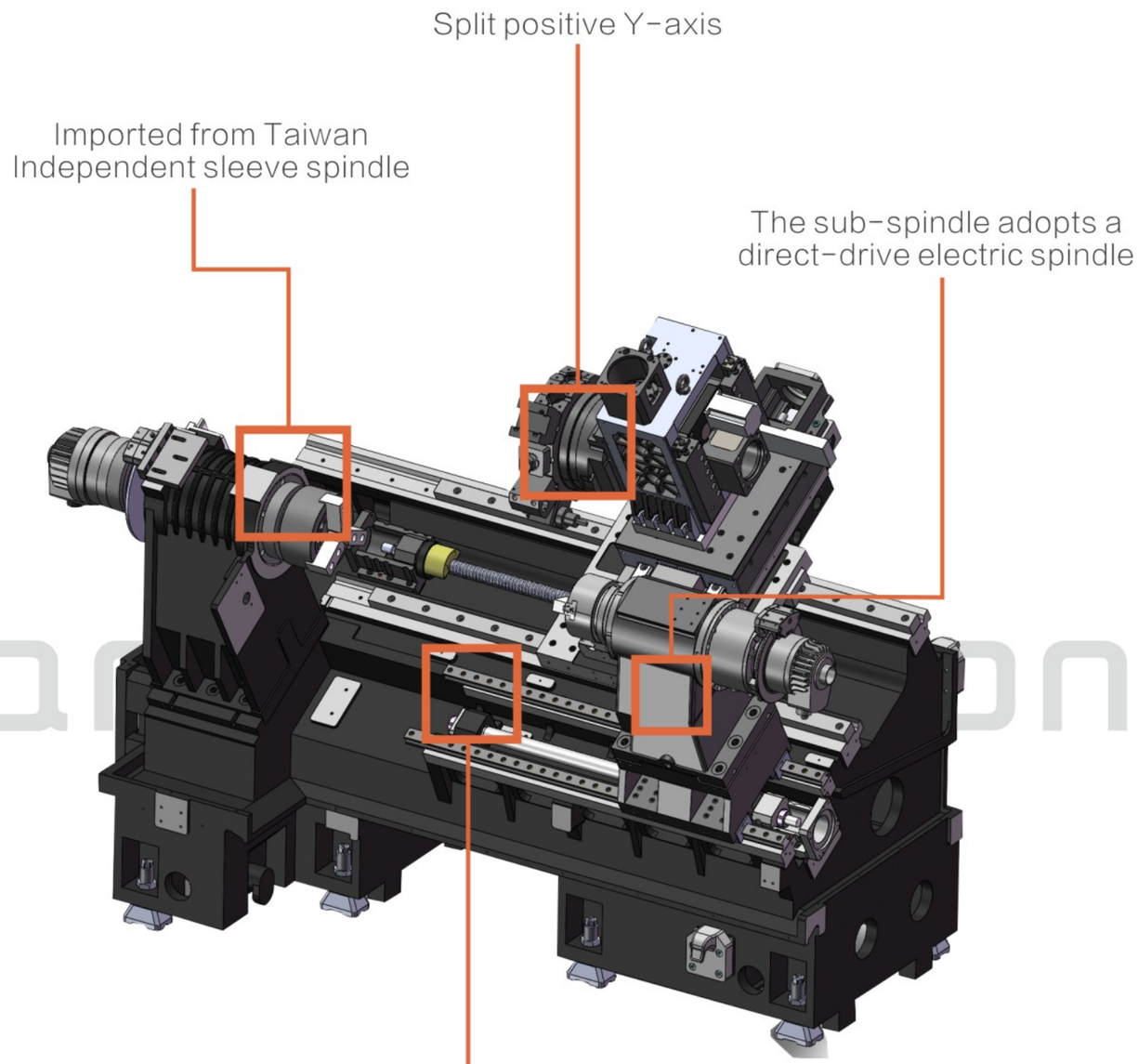
Advanced structure

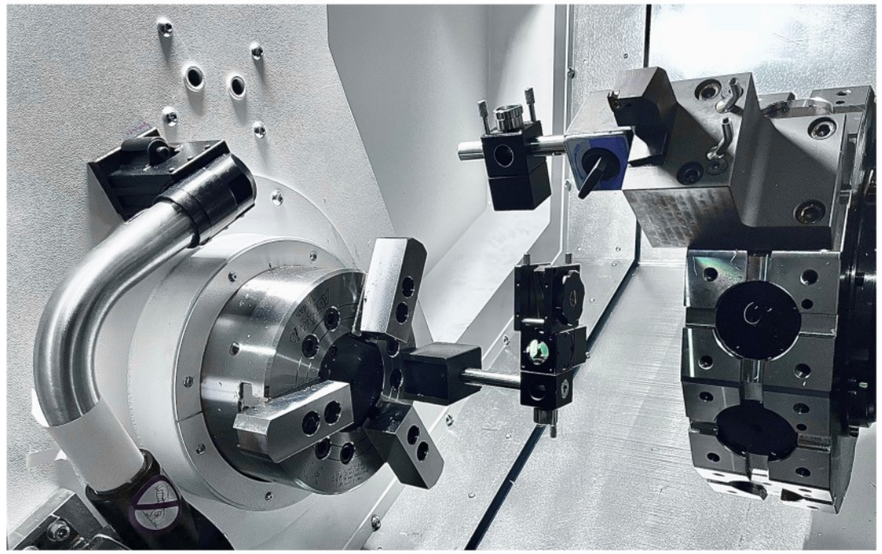
All major components of the machine are made of cast iron with a high damping capacity.
All castings were optimized using finite element analysis (FEA),In order to reduce the twist deformation and improve the shock absorption ability.

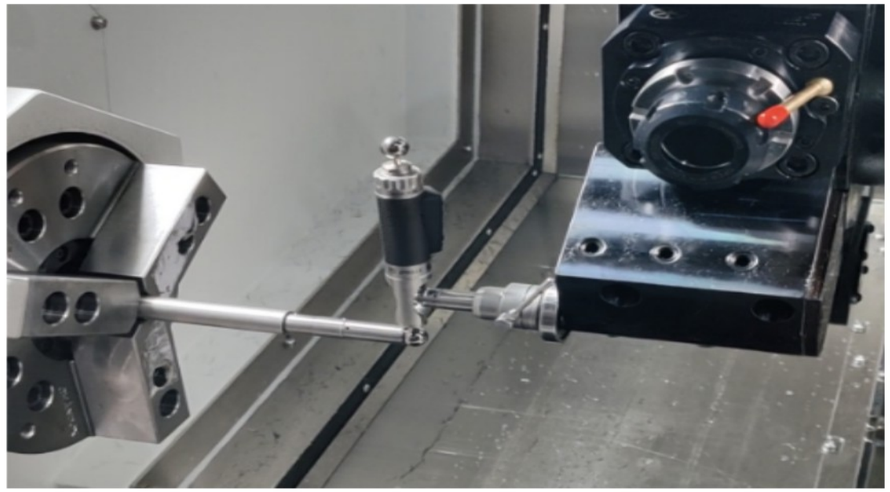
The castings of the major series of lathes are equipped with stiffeners to strengthen and reinforce, and they are strengthened Rigidity and thermal stability. Compact, symmetrical headstock and tailstock castings The rigidity has been further improved, ensuring high positioning accuracy and weight Accuracy of complex positioning.



The machine bed is made of high-quality Meehanite cast iron,High stability, rigidity and accuracy







100% Laser and ballbar detection

State-of-the-art lasers and ballbars are used to check the linear positioning and geometric accuracy of each machine. When the machine performs a series of movements in the plane, the high-precision ballbar begins to track the trajectory of the machine tool to ensure synchronization and verify the geometric accuracy and linear positioning accuracy of the machine tool.

A variety of optional configurations

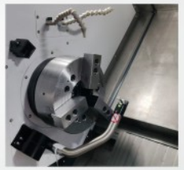
Direct drive motorized spindle

Simplify the reliability of the transmission mechanism, high and low vibration Fast response



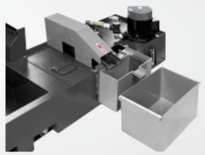
Knife arm

The automatic detection arm is used to detect the wear of the tool and correct the tool Sharp point position, repeatability can reach 5 μ m,Ensure the stability of processing quality and effectively reduce machine downtime time, improve productivity.



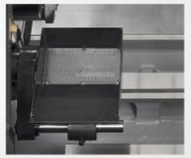
Oil-water separator

Effectively separates oil stains from cutting fluids to avoid deterioration and prolong circulation Service life reduces waste while improving processing efficiency and product quality quantity, which is of great significance to environmental protection.



Workpiece receiver

When the machining cycle is completed, the workpiece is automatically picked up and sent to the outside Inside the collection box, if with an automatic bar feeder and finished product conveying With fitting, it can achieve an automated production mode and greatly reduce it Labor costs and operational risks.



Chip conveyor

The most typical type of chip conveyor for hinged chip conveyors is suitable Chips of 30mm or longer lengths are produced by synthetic steel



Steady rest

It is provided with a movable support point to reduce the long rod type workpiece Self-weight and centrifugal force effect to control roundness and cylindricality. Body stroke control can choose hydraulic drive, Z-axis servo Motor-driven or manual.



Oil mist recycler

Filtering, collecting, and cleaning the oil mist generated during the production process,Dust, water mist, etc., are recovered from the oil vapor generated during processing Reuse to avoid the spread of toxic oil vapors and dust, and protect people health, saving costs and protecting the environment.



Optical ruler

Measure the position of the linear axis during servo movement, eliminating backs Caused by gaps, screw pitch errors or heating of the circulating ball screw The displacement error enables the machine to achieve accurate positioning and repetition Precision.



Electric cabinet air conditioning

Increase the service life of electrical appliances in the electrical cabinet and reduce the failure rate of machine tools



Bar feeder

Through the programming of the processing cycle, the bar raw material is automatically fed into the spindle.Realize long-term unmanned continuous operation mode and increase production capacity. Reduce labor costs.



High-pressure water pump

Adequate cooling extends tool life and more stable machining accuracy

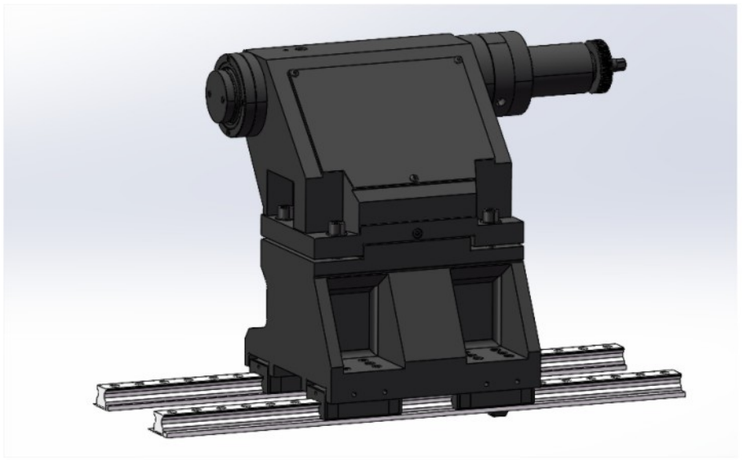


In-line inspection probes

In-line detection of the size of the workpiece increases the pass rate of the product



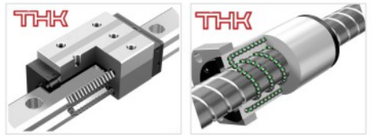
PROGRAMMABLE HYDRAULIC TAILSTOCK



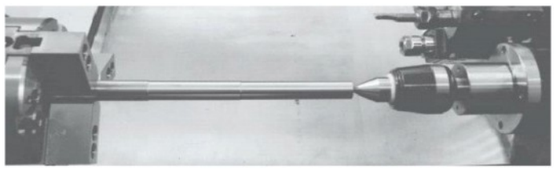
The programmable hydraulic tailstock can be activated via a workpiece program or directly controlled using a standard foot switch.

Closed-loop positioning allows the tailstock to be parked anywhere within the stroke. Compact and firm The solid castings ensure excellent rigidity and are equipped with high-quality ejector pins Effectively reduce vibration.

This series of CNC lathes, with excellent heavy-duty cutting performance,Whether it is to shorten the machining time, improve the chip removal rate and Processing special hard materials and other aspects, All of them have more outstanding performance than models of the same level, This makes it easy to meet your various processing needs today and in the future.



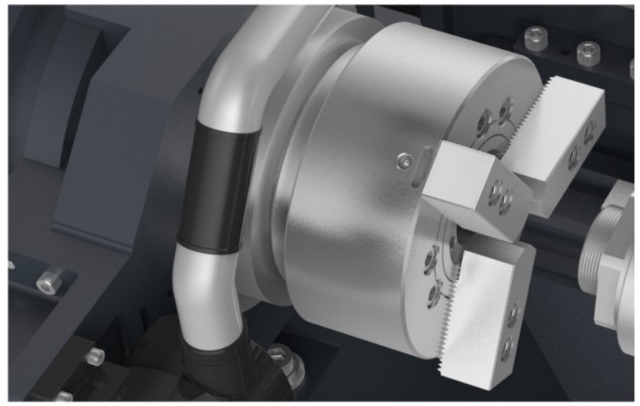
Imported Japanese THK brand,
C2 grade ball screw,
P grade ball guide (optional roller)



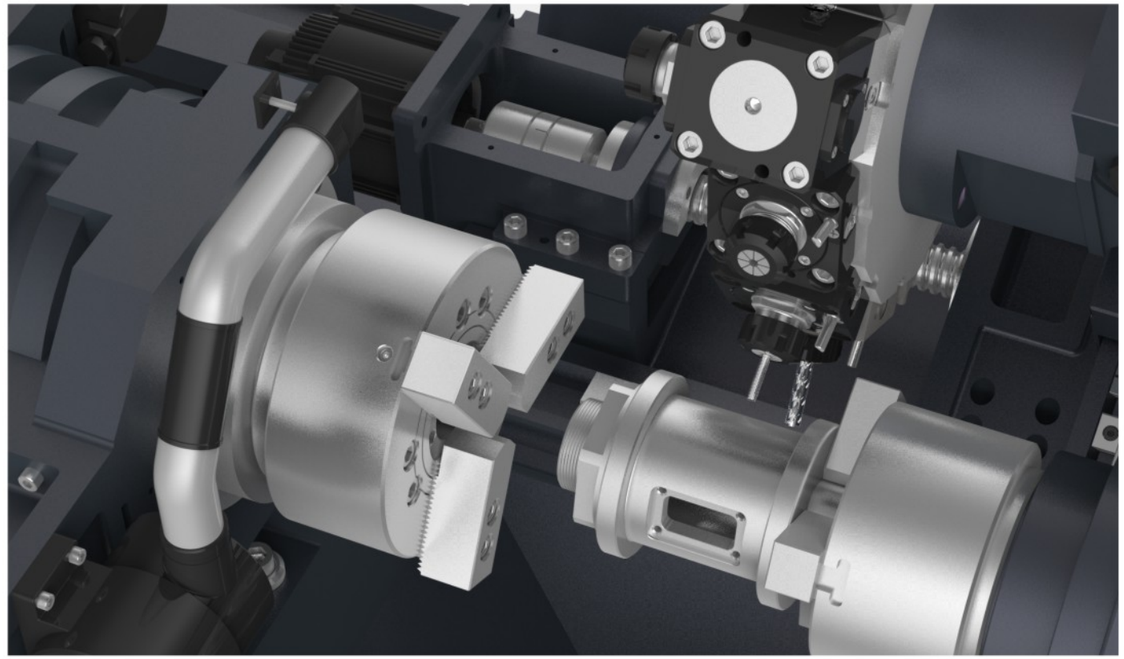
- The X-axis and the shaft pitch are perfectly matched,
- Process a more perfect appearance effect
- At the same time, it also has excellent rapid feed

Hydraulic chuck clamping

In the standard configuration, the lathe is equipped with a hydraulic chuck with holes. With customized service of chuck, we can offer you the most appropriate chuck for clamping.



Sub Spindle



The twin-spindles turning can machine both sides of the workpiece simultaneously in a single clamping, which simplifies manual operation greatly and reduces procedure while increasing the output. In addition, the second spindle can realize synchronous turning completely and can transfer the workpiece rapidly during the machining, thus shortening the cycle time.

HIGH QUALITY KNIFE TOWER SYSTEM



Optimal design

Very high rotate speed with min.indexing time

High rigidity,durability and low noise .

Tool disc of 8T,10T,12T is optional

Optimize the appearance and enhance the value of the product

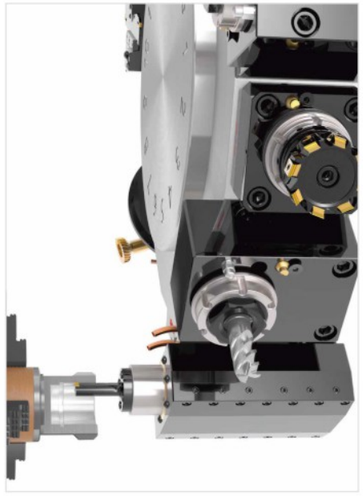
SHEET METAL IS EASY TO CONFIGURE AND CAN BE CUSTOMIZED PROVIDE THE BEST COMBINATION OF MACHINE TOOLS

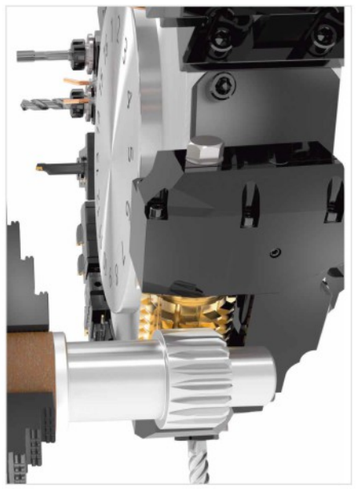
A service-oriented team that provides the best service

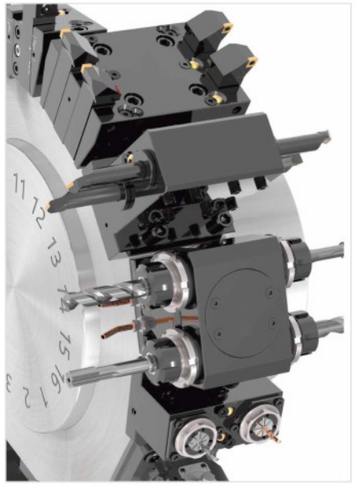
Bi- direction rotate,double sensor for locking and unlocking status



STANDARD FEATUR I ES







The high-quality precision of the sole leader









SCOEMTIFIC TESTING METHOD

High rigidity and high precision turret system

3 unbeatable innovations for you

GREAT EFFICIENCY IMPROVEMENT

NC SERIES:
SINGLE SPINDLE & SERVO TURRET

Characteristics

High-rigidity integrated design

The machine is equipped with a high-precision three-disc radial clutch to assure accuracy of positioning and repeated positioning. Moreover, it has a servo motor driven blade turning system for two-way or arbitrary selection of nearby cutters.



Standard Accessories:

- Hydraulic chuck system
- Taiwan sleeve spindle unit
- 10.4" color LCD display
- Built-in USB interface
- Spindle positioning
- Intelligent control system selection
- Automatic chip conveyor for iron filings



Optional Accessories:

- Automatic tool setter system
- Automatic safety gate control
- Robot interface
- Automatic workpiece splicing device
- Blowing device
- High-pressure cooling system

HMS-320 Performance

400 Maximum processing diameter	420 Maximum processing length
4500rpm spindle	7.5/11 Spindle motor power
12 Tool position servo turret	24/24 X/Z Axis rapid traverse speed

HMS-550 Performance

450 Maximum processing diameter	550 Maximum processing length
4200rpm spindle	11/15 Spindle motor power
12 Tool position servo turret	24/24 X/Z Axis rapid traverse speed

Servo Turret

HMS-750 Performance

450 Maximum processing diameter	750 Maximum processing length
4200rpm spindle	11/15 Spindle motor power
12 Tool position servo turret	24/24X/Z Axis rapid traverse speed

HMS-750L Performance

450 Maximum processing diameter	1000 Maximum processing length
4200rpm spindle	11/15 Spindle motor power
12 Tool position servo turret	24/24 X/Z Axis rapid traverse speed

M-SERIES:
TURNING AND MILLING CENTER

Super stiffness and Excellent thermal stability

Servo-driven turret characteristics

It has a servo turret for fast and accurate tool change performance The power milling of the high-speed power shaft reaches the turning and milling compound typeSuperior processing capabilities

The toolholder is mounted with a high-rigidity BMT mounting interfaceThe power transmission shaft is driven by a servo spindle motor



Power take-off adopted **DIN1809**
Glyph Rotation tool

The maximum speed is achievable
6000RPM

Standard Accessories:

- Hydraulic chuck system
- Taiwan sleeve spindle unit
- 10.4" color LCD display
- Built-in USB interface
- Spindle positioning
- Spindle indexing
- Rigid tapping
- Intelligent control system selection
- Automatic chip conveyor for iron filings

Optional Accessories:

- Automatic tool setter system
- Automatic safety gate control
- manipulator
- Automatic material collector
- Blowing device
- High-pressure cooling system



HMS-320M Performance

380 Maximum processing diameter	360 Maximum processing length
4500rpm spindle	7.5/11 Spindle motor power
12 Tool position BMT45 live turret	24/24 X/Z Axis rapid traverse speed

HMS-550M Performance

400 Maximum processing diameter	485 Maximum processing length
4200rpm spindle	11/15 Spindle motor power
12 Tool position BMT55 live turret	24/24 X/Z Axis rapid traverse speed

MY SERIES:
VERSATILE AND SUPERIOR MILL-TURNING

The machine uses a Y-axis turning center to turn the two axes Combined with Y-axis and C-axis nuclear power knives,

Created for different customers Powerful machining solutions

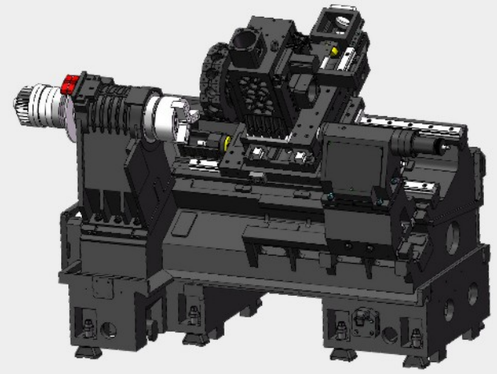
Standard Accessories:

- Hydraulic chuck system
- Taiwan sleeve spindle unit
- 10.4" color LCD display
- Built-in USB interface
- Spindle positioning
- Rigid tapping
- Intelligent control system selection
- Automatic chip conveyor for iron filings
- Made in China

Optional Accessories:

- Automatic tool setter system
- Automatic safety gate control
- manipulator
- Automatic material collector
- Blowing device
- High-pressure cooling system
- A variety of electric turrets





Integrated vertical Y-axis

The columnar structure has ultra-high rigidity

HMS-320MY Performance

280 Maximum processing diameter	380 Maximum processing length
4500rpm spindle	7.5/11 Spindle motor power
15 Tool position: BMT40 power turret	24/24/12 X/Z/Y Axis rapid traverse speed

HMS-550MY Performance

400 Maximum processing diameter	490 Maximum processing length
4200rpm spindle	11/15 Spindle motor power
12 Tool position BMT55 live turret	24/24/12X/Z/YAxis rapid traverse speed

MYS SERIES
DUAL SPINDLE + Y-AXIS

In the face of complex workpiece operations such as turning and milling, in addition to performing various machining operations, It also increases yields,

Reduce manual work and improve accuracy

Designed for simplicity and easy to operate

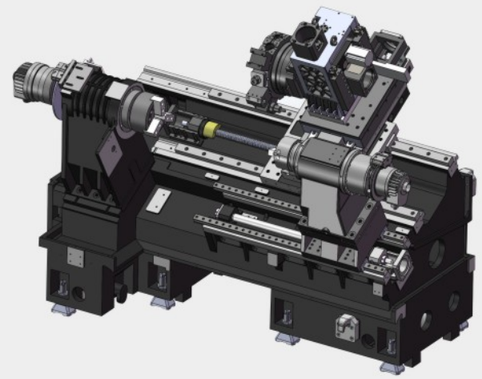


Standard Accessories:

- Hydraulic chuck system
- A2-6 spindle nose end
- A2-5 sub-spindle nose
- 10.4" color LCD display
- Built-in USB interface
- Spindle positioning
- Rigid tapping
- Automatic chip conveyor for iron filings

Optional Accessories:

- Automatic tool setter system
- Automatic safety gate control
- Robot interface
- Automatic workpiece splicing device
- Blowing device
- High-pressure cooling system
- All kinds of driven tool holders



HMS-550MYS Performance

400 Maximum processing diameter	435 Maximum processing length
±50 Y-axis travel	4200rpm Spindle speed
5500rpm Sub-spindle speed	11/15 Spindle motor
11.3 Sub-spindle motor	12 Tool position BMT55 live turret
24/24/12/24 X/Z/Y/W Axis rapid traverse speed	

HMS-750MYS Performance

400 Maximum processing diameter	635 Maximum processing length
±50 Y-axis travel	4200rpm Spindle speed
5500rpm Sub-spindle speed	11/15 Spindle motor
11.3 Sub-spindle motor	12 Tool position BMT55 live turret
24/24/12/24 X/Z/Y/W Axis rapid traverse speed	

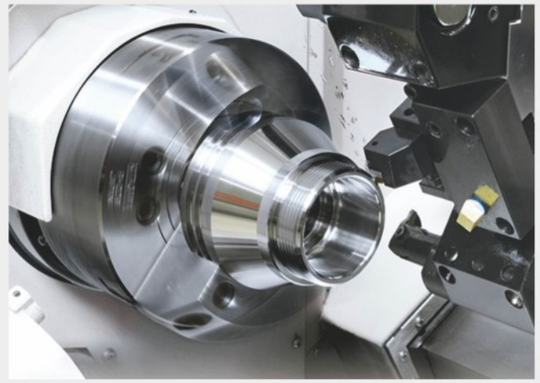
CNC LATHE HEAVY-DUTY CUTTING

Superior rigidity is outstanding
Thermal stability

Heavy-duty, extra-long custom customization

Thick rails/hard rails

High speed and high precision Show on the same stage



Monolithic castings pass **180days**

Annealing relieves stress and stabilizes accuracy for a long time

Standard Accessories:

- Hydraulic chucks
- A2-8 spindle
- 10.4" color LCD display
- Spindle C-axis indexing function
- Flexible choice of control system
- Add chip conveyor + barrel car
- The X/Z adopts 55mm linear guideway
- The turret adopts a large cutter head 480

Optional Accessories:

- Upgrade your turning center
- Upgrade mill-turn complexes
- manipulator
- High-pressure cooling system
- Upgrade 12" 15" hydraulic chuck
- Upgraded A2-11 prefabricated spindle

Heavy cutting Push the money

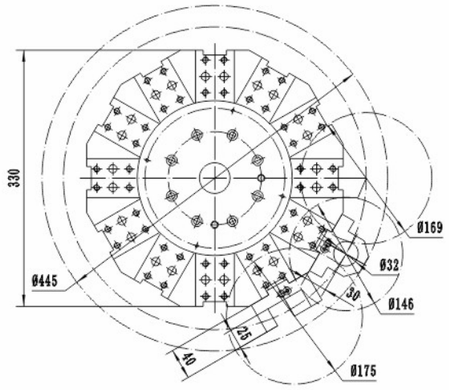


1000/2000/3000 Processing capacity

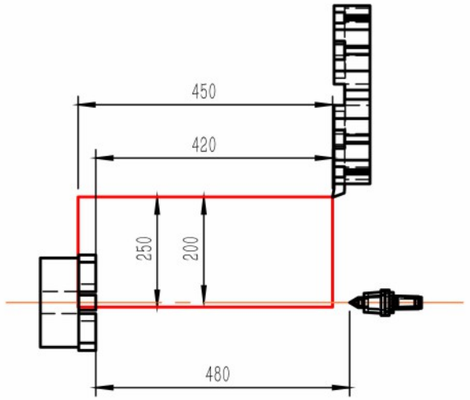
Φ630/600/630Maximum turning diameter	1000/2000/3000Maximum turning length
2600-RPMspindle	Φ75Maximum bar through-holes
15/18.5 KWSpindle motor power	

1000MY/2000MY Processing capacity

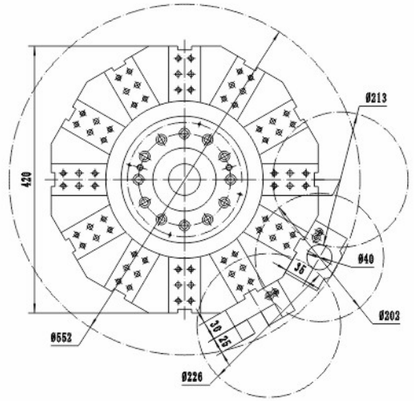
Φ550/600 Maximum turning diameter	940/1900 Maximum turning length
2600-RPM spindle	Φ75 Maximum bar through-holes
15/18.5KW Spindle motor power	BMT55(Y-axis) driven turret with 12 tool positions BMT65(Y-axis) driven turret with 12 tool positions



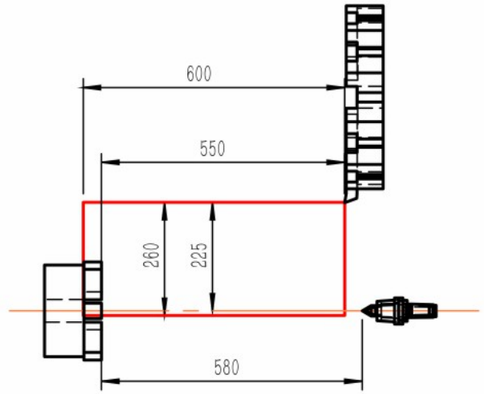
HMS-320 Tool interference diagram



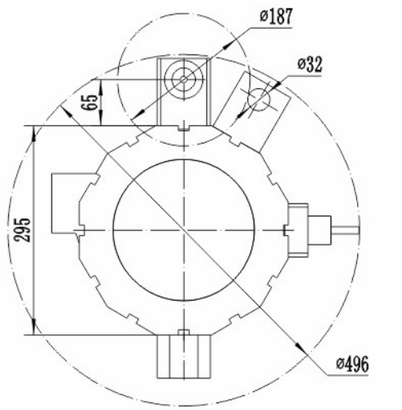
HMS-320 Itinerary map



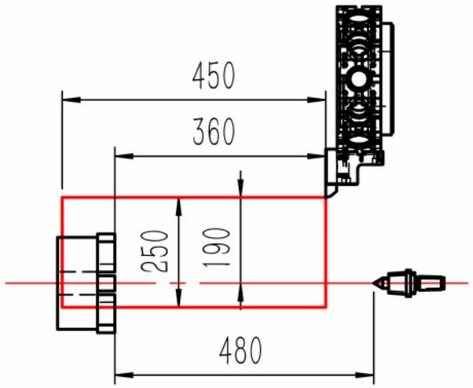
HMS-550 Tool interference diagram



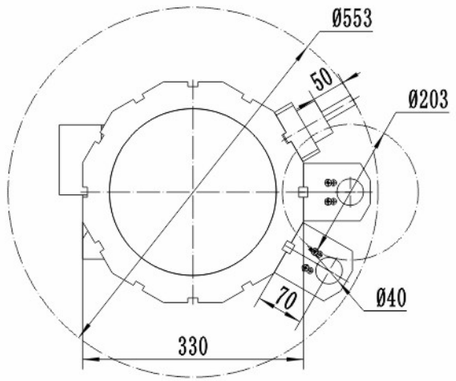
HMS-550 Range of travel



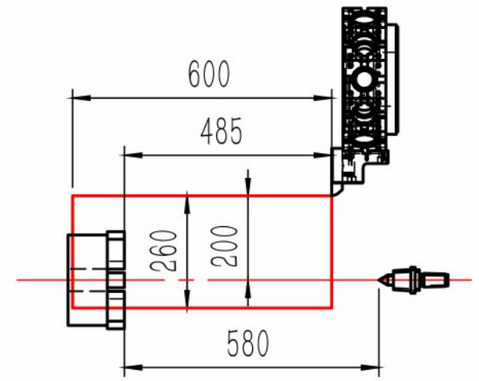
HMS-320M Tool interference diagram



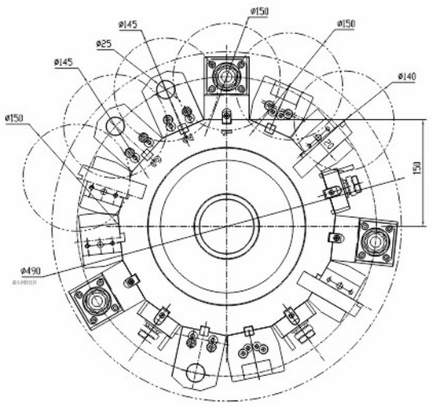
HMS-320M Itinerary map



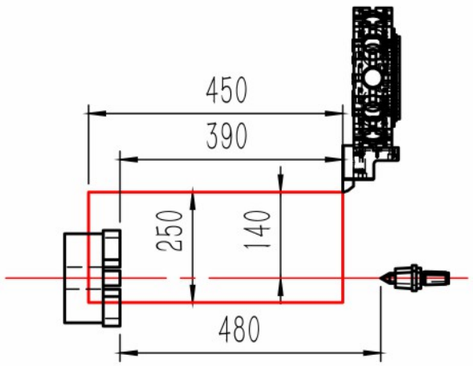
HMS-550M Tool interference diagram



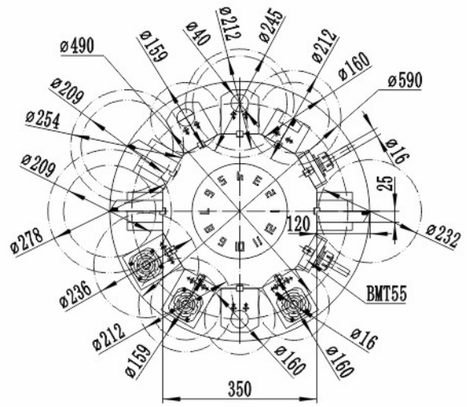
HMS-550M Range of travel



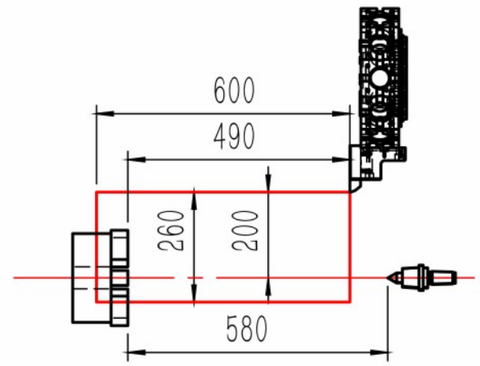
HMS-320MY Tool interference diagram



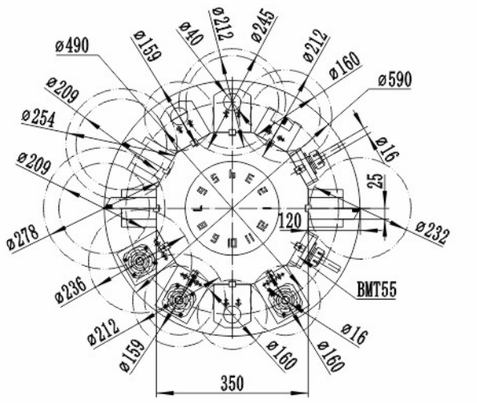
HMS-320MY Itinerary map



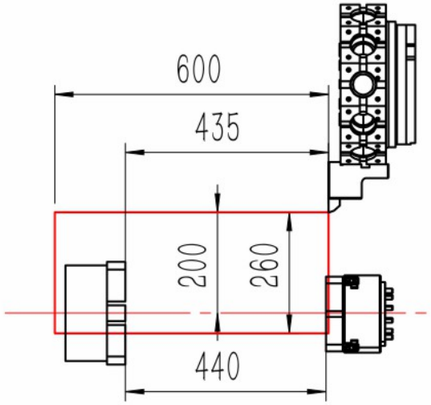
HMS-550MY Tool interference diagram



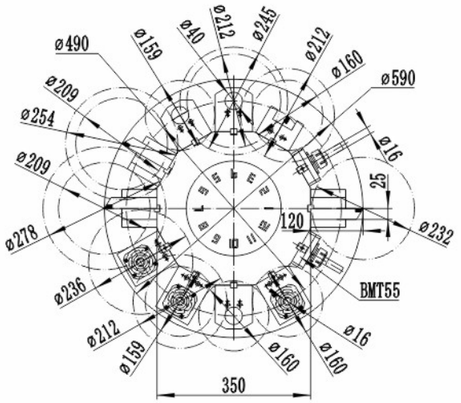
HMS-550MY Range of travel



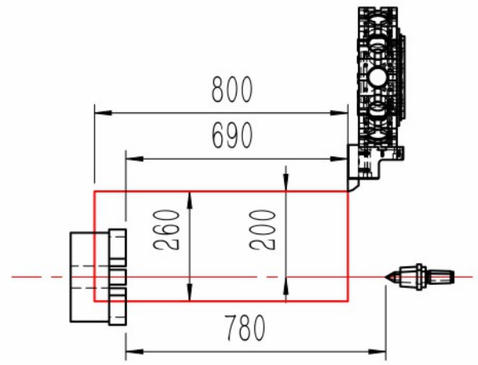
HMS-550MYS Tool interference diagram



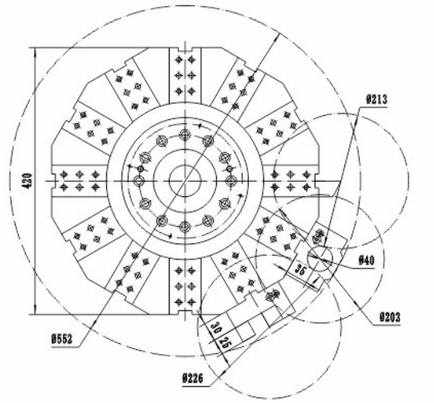
HMS-550MYS Itinerary map



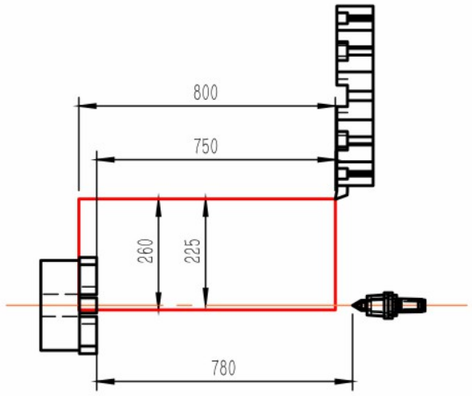
HMS-750MY Tool interference diagram



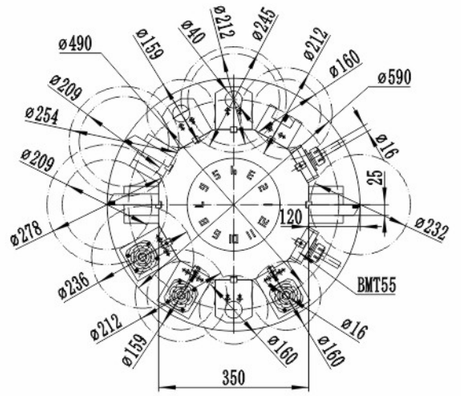
HMS-750MY Itinerary map



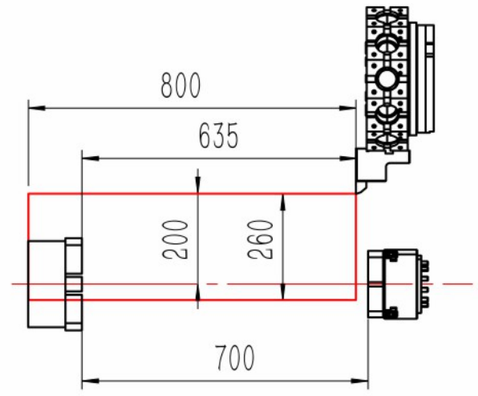
HMS-750 Tool interference diagram



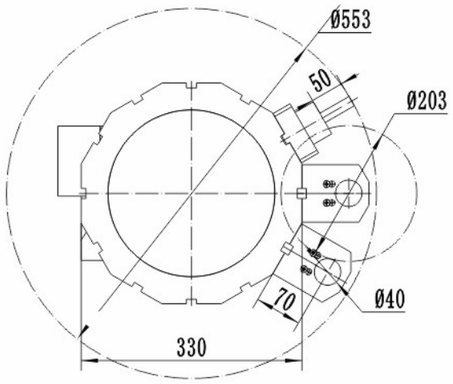
HMS-750 Itinerary map



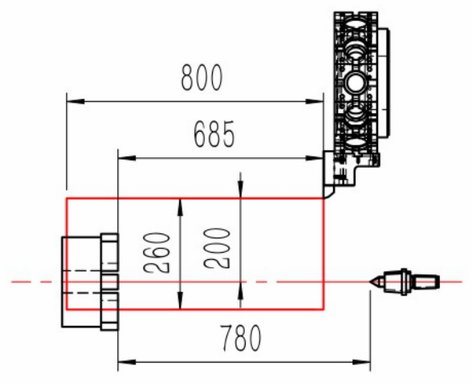
HMS-750MYS Tool interference diagram



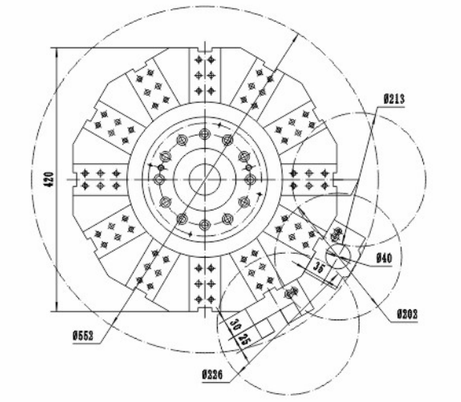
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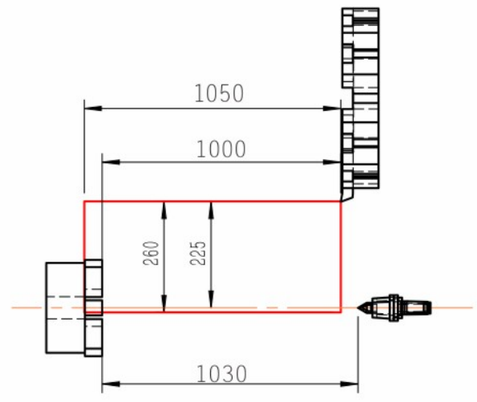
HMS-750M Tool interference diagram



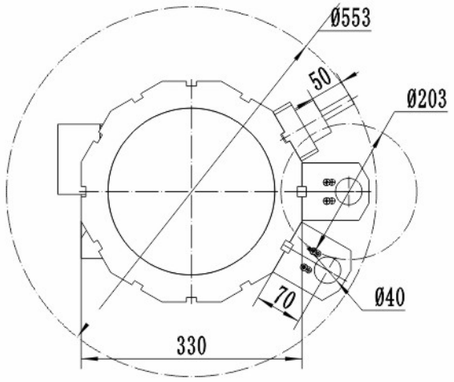
HMS-750M Itinerary map



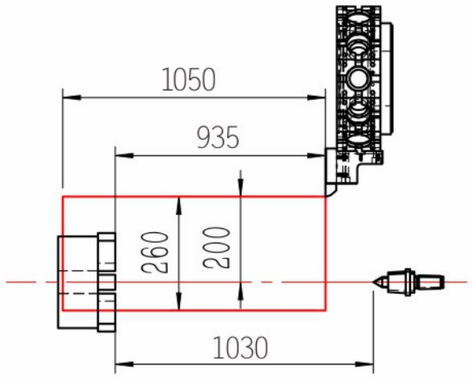
HMS-750L Tool interference diagram



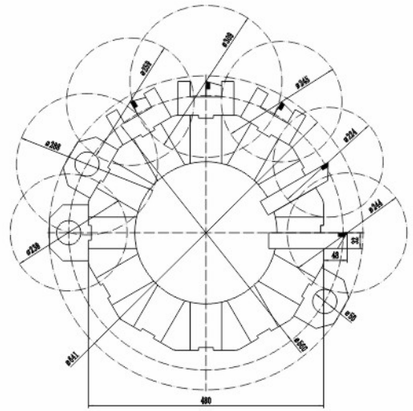
HMS-750L Itinerary map



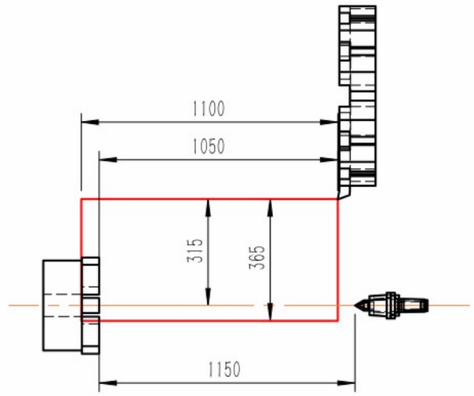
HMS-750LM Tool interference diagram



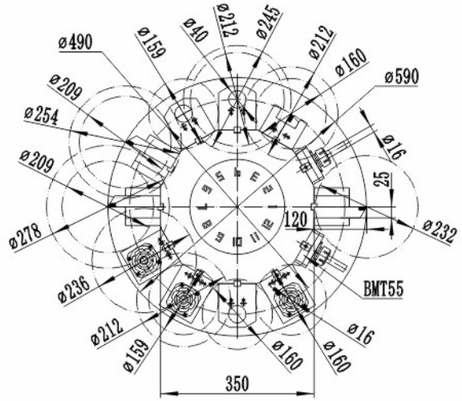
HMS-750LM Itinerary map



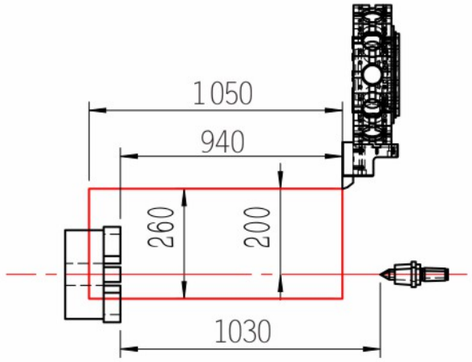
HMS-1000 Tool interference diagram



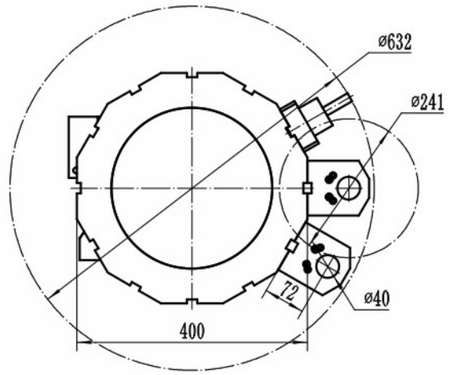
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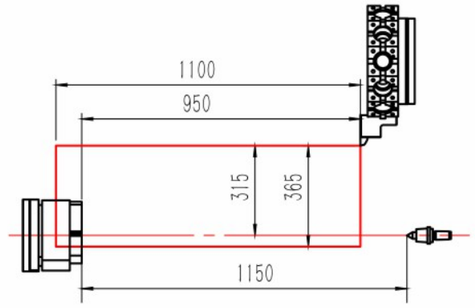
HMS-750LMY Tool interference diagram



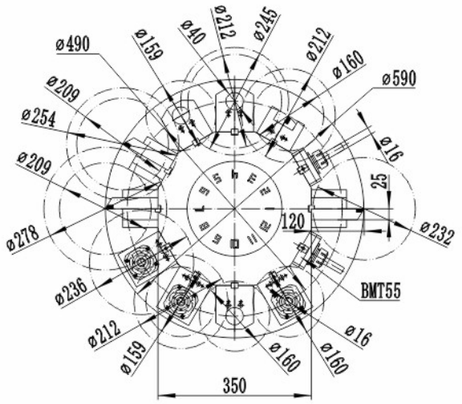
HMS-750LMY Itinerary map



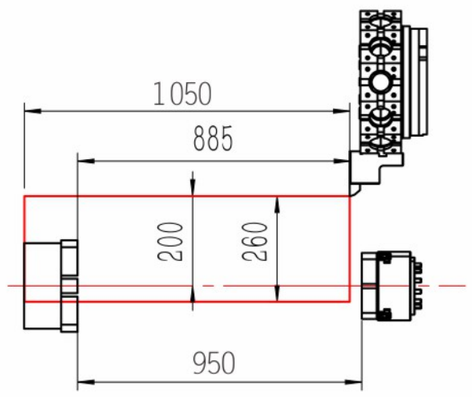
HMS-1000M Tool interference diagram



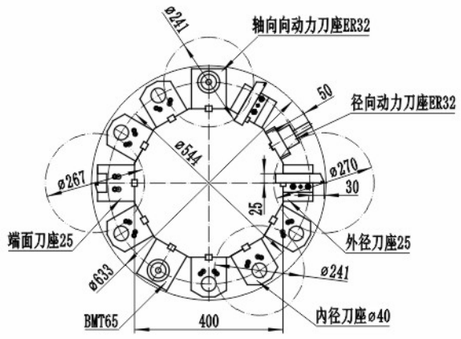
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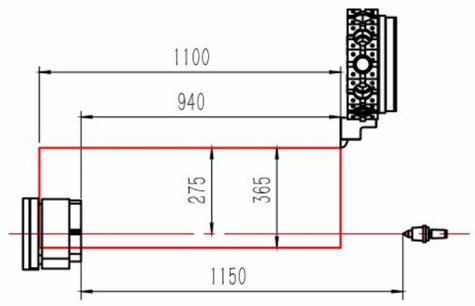
HMS-750LMYS Tool interference diagram



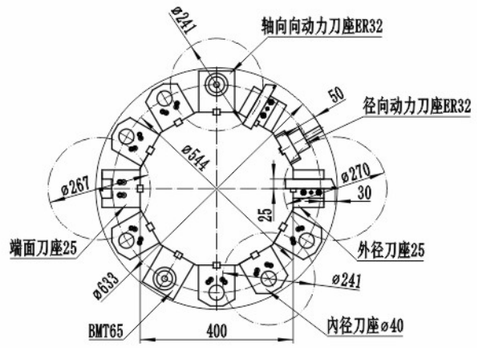
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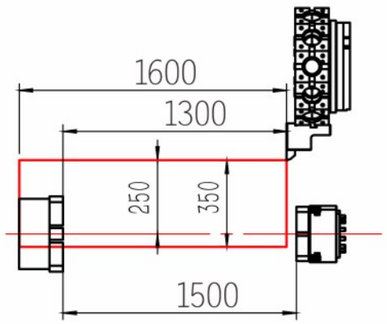
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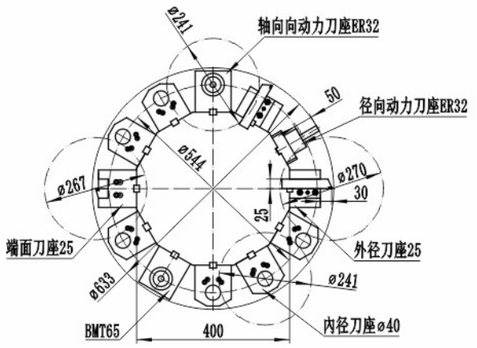
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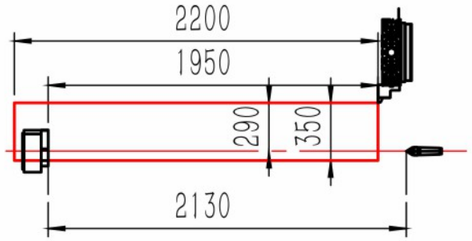
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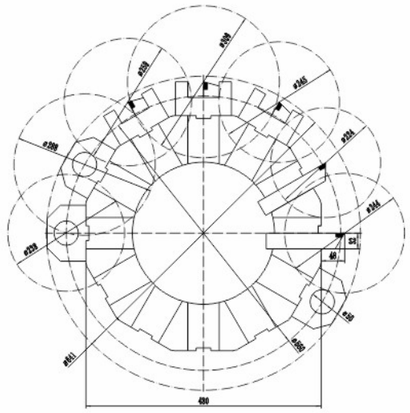
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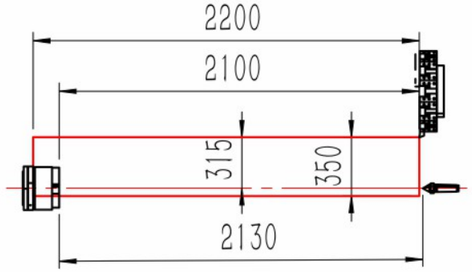
HMS-2000MY Tool interference diagram



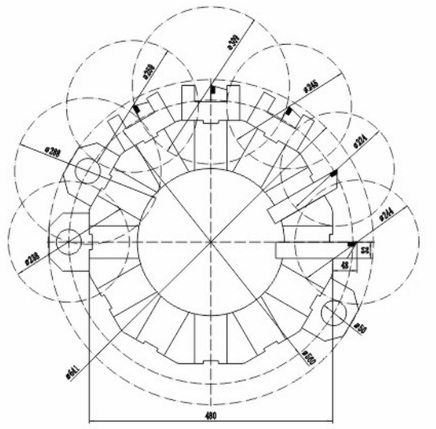
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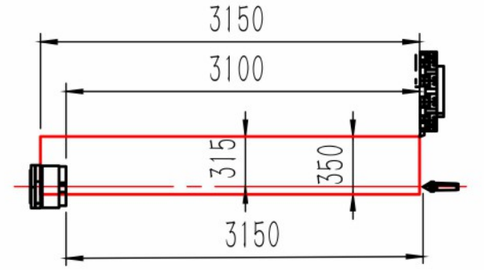
HMS-2000 Tool interference diagram



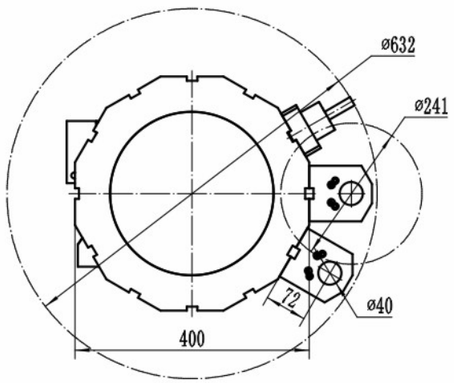
HMS-2000 Itinerary map



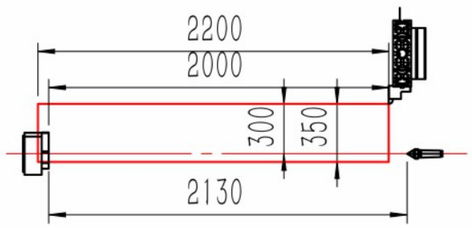
HMS-3000 Tool interference diagram



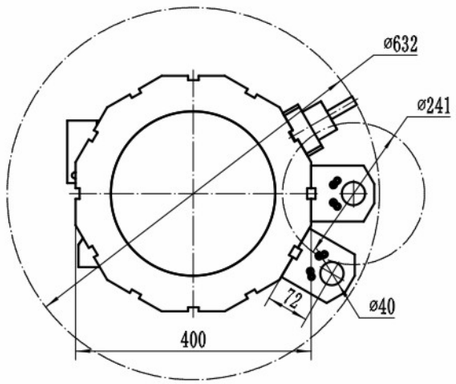
HMS- 3000 Itinerary map



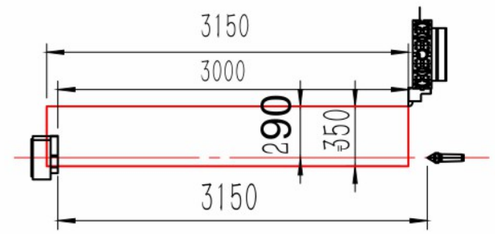
HMS-2000M Tool interference diagram



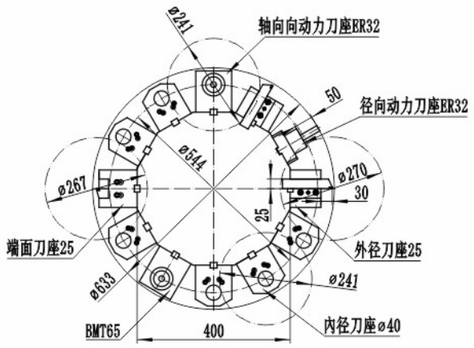
HMS- 2000M Itinerary map



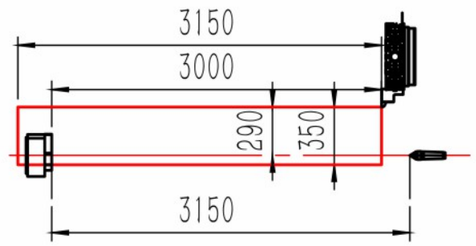
HMS-3000M 刀具干涉图



HMS-3000M Itinerary map

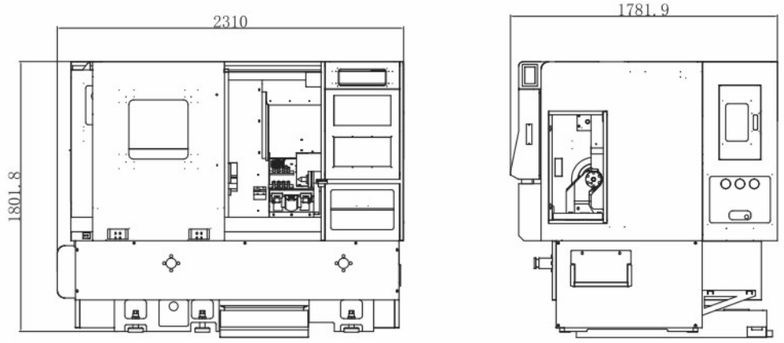


HMS-3000MY Tool interference diagram

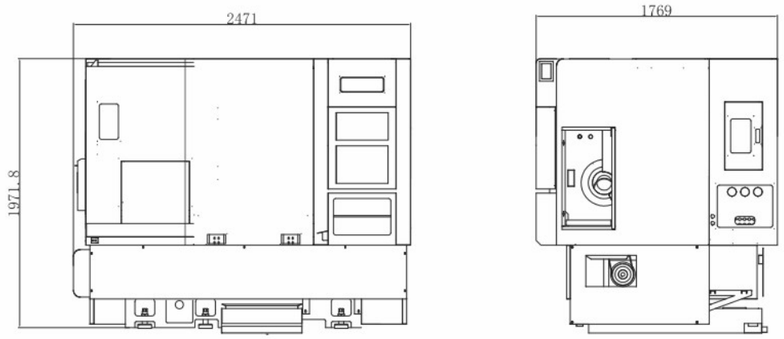


HMS-3000MY Itinerary map

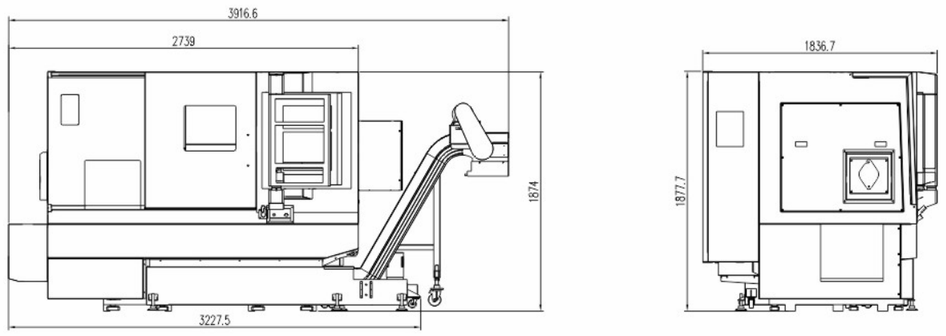
320-320M Dimensions



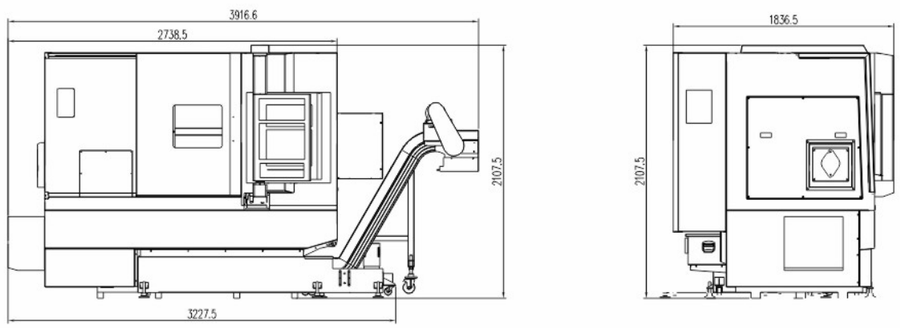
320MY Dimensions



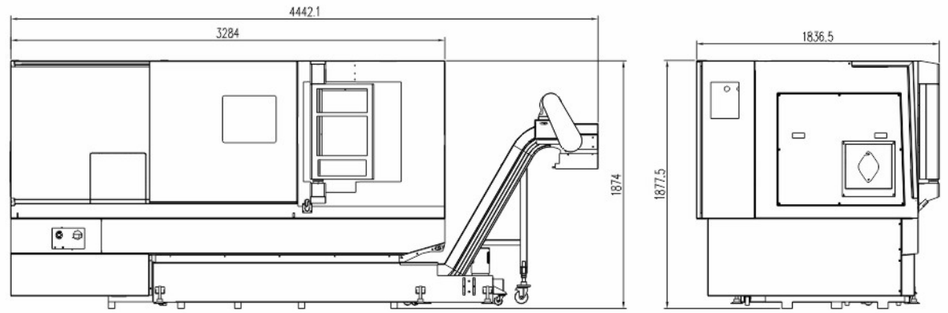
550-550M Dimensions



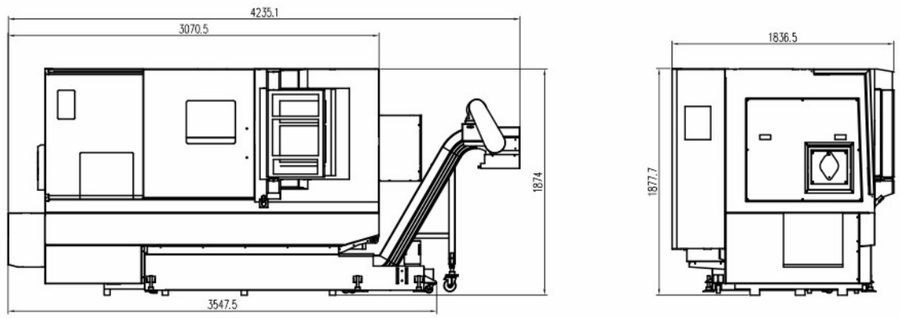
550MY-550MYS Dimensions



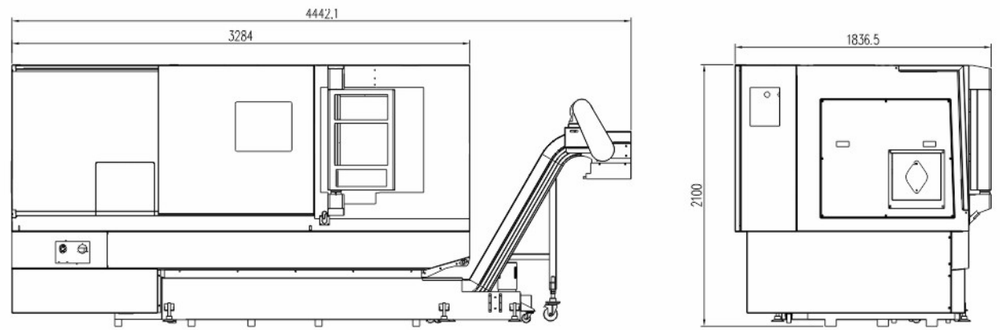
750L-750LM Dimensions



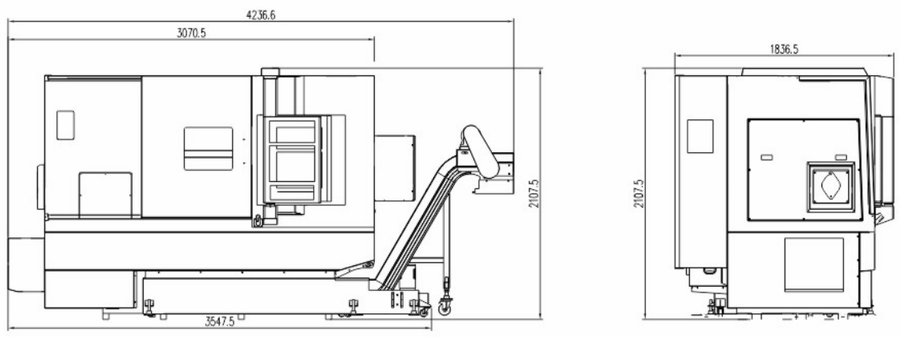
750-750M Dimensions



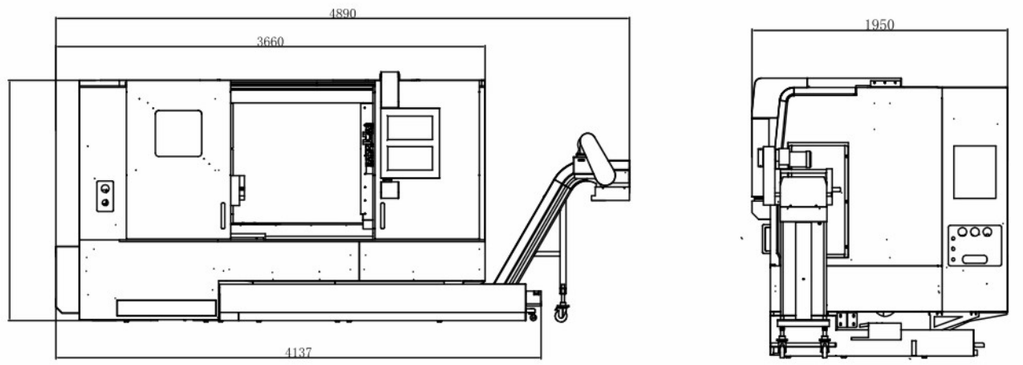
750LMY-750LMYS Dimensions



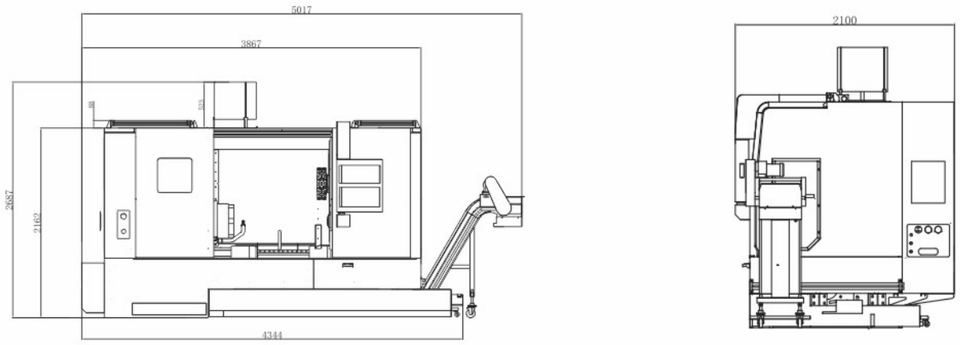
750MY-750MYS Dimensions



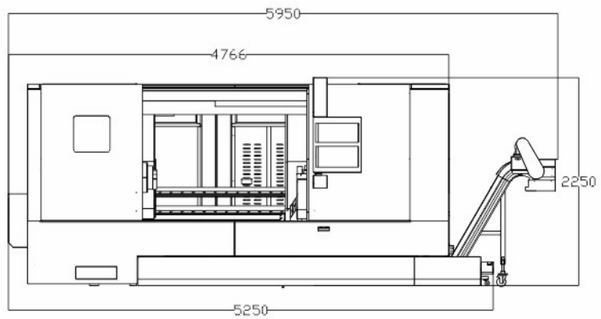
1000-1000M Dimensions

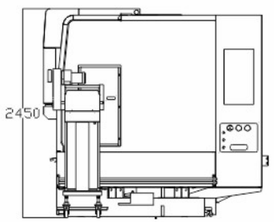


1000MY Dimensions

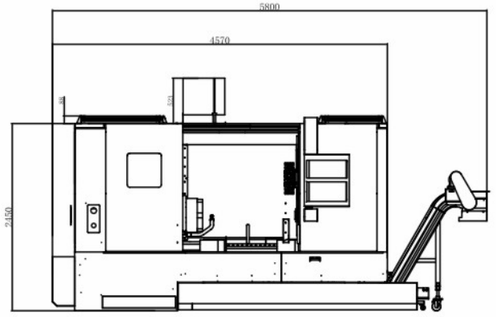


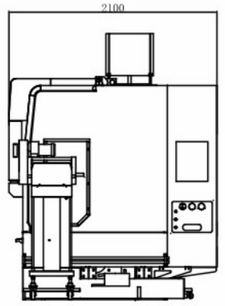
2000MY Dimensions



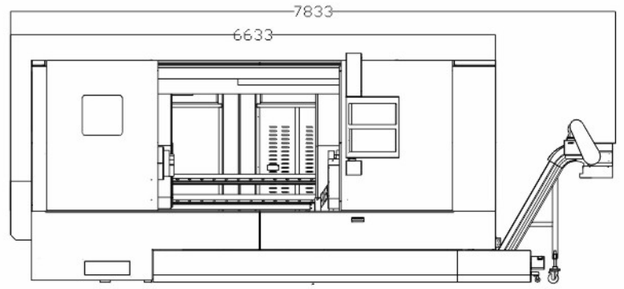


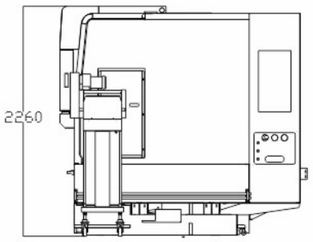
1000LMYS Dimensions



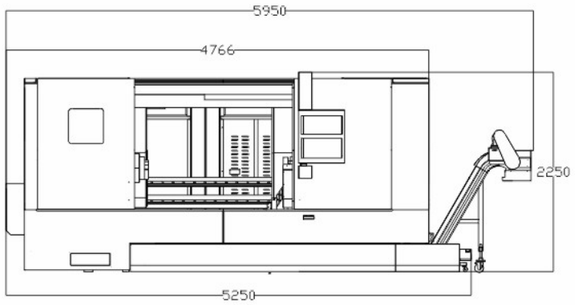


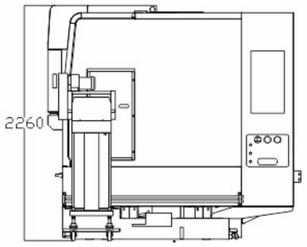
3000-3000M Dimensions



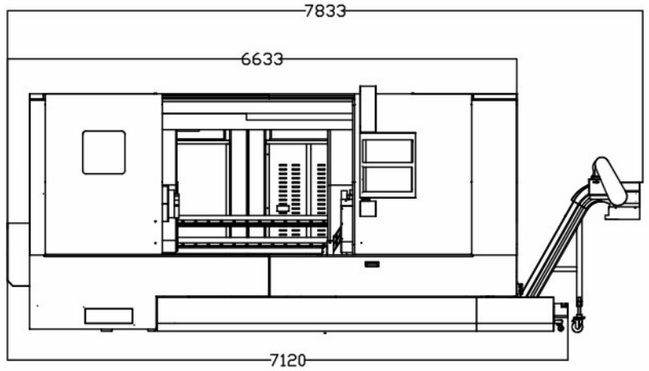


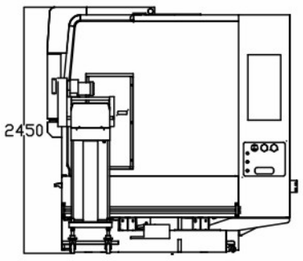
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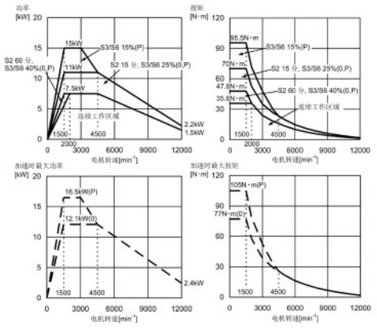


3000MY Dimensions

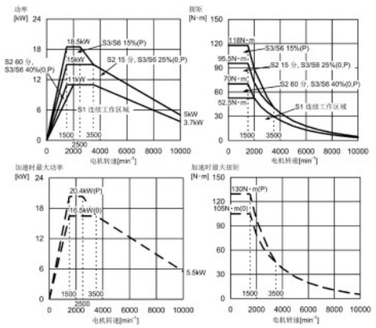




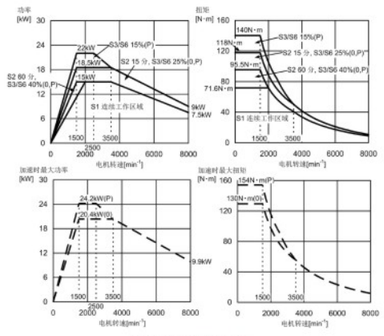
Characteristic curve of spindle motor



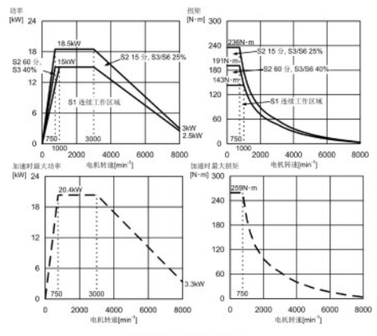
βiI 8/12000-B



βiI 12/10000-B

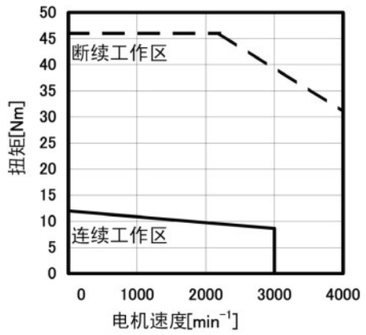


βiI 15/8000-B

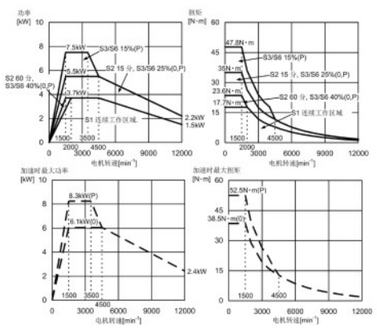


βiIP 30/8000-B

Characteristic curve diagram of power head motor



αiS 12/4000-B



βiI 3/12000-B

SPECIFICATIONS

NC CNC lathe

HMS series

Processing capacity	unit	HMS-320-A	HMS-320-B	HMS-320-C	HMS-550-A	HMS-550-B	HMS-550-C
Maximum rotation diameter	mm	Φ500	Φ500	Φ500	Φ550	Φ550	Φ550
Diameter of rotation on the saddle	mm	Φ180	Φ180	Φ180	Φ330	Φ330	Φ330
Maximum turning diameter	mm	Φ400	Φ400	Φ400	Φ450	Φ450	Φ450
Adjacent tools machining interference diameter	mm	Φ169	Φ169	Φ169	Φ202	Φ202	Φ202
Maximum turning length	mm	420	405	350	550	535	510
X-axis maximum travel	mm	250	250	250	260	260	260
Maximum travel in the Z-axis	mm	450	450	450	600	600	600
X-axis motor power	kw	1.2	1.2	1.8	1.8	1.8	3
Z-axis motor power	kw	1.2	1.2	1.8	1.8	1.8	3
Z-axis motor torque (rated/maximum)	N.m	7.0/15.0	7.0/15.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
X-axis motor torque (rated/max)	N.m	7.0/15.0	7.0/15.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	24	24	24
spindle							
Spindle nose end	-	A2-5	A2-5	A2-6	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ170	Φ170	Φ200	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ52	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	6 "	8 "	8 "	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	4000	4500	4000	3000
Spindle motor power (continuous/30min)	kw	7.5/11.0	7.5/11.0	11.0/15.0	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	35.8	35.8	52.5	52.5	52.5	71.6
C-axis resolution	1/n	1024	1024	1024	1024	1024	1024
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Center high	mm	80	80	80	100	100	100
The width of the cutterhead on the opposite side	mm	330	330	330	420	420	420
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	32	32	32	40	40	40
Tailstock							
Top distance	mm	480	480	480	580	580	580
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	4#	4#	4#	5#	5#	5#
Form factor weight							
Machine dimensions	m	2.3*1.78*1.8	2.3*1.78*1.8	2.3*1.78*1.8	2.74*1.84*1.88	2.74*1.84*1.88	2.74*1.84*1.88
Chip conveyor length included	m	3.5	3.5	3.5	3.92	3.92	3.92
Machine weight (approx.)	kg	3500	3500	3500	4200	4200	4200

SPECIFICATIONS

NC CNC lathe

HMS series

Processing capacity	unit	HMS-750-A	HMS-750-B	HMS-750-C	HMS-1000-A	HMS-1000-B	HMS-1000-C
Maximum rotation diameter	mm	Φ550	Φ550	Φ550	Φ650	Φ650	Φ650
Diameter of rotation on the saddle	mm	Φ330	Φ330	Φ330	Φ430	Φ430	Φ430
Maximum turning diameter	mm	Φ450	Φ450	Φ450	Φ630	Φ630	Φ630
Adjacent tools machining interference diameter	mm	Φ202	Φ202	Φ202	Φ235	Φ235	Φ235
Maximum turning length	mm	750	735	710	1050	1030	1000
X-axis maximum travel	mm	260	260	260	365	365	365
Maximum travel in the Z-axis	mm	800	800	800	1100	1100	1100
X-axis motor power	kw	1.8	1.8	3	3	3	3
Z-axis motor power	kw	1.8	1.8	3	3	3	3
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	15/24	15/24	15/24
spindle							
Spindle nose end	-	A2-6	A2-6	A2-8	A2-8	A2-8	A2-11
Spindle diameter	mm	Φ200	Φ200	Φ230	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81	Φ72	Φ72	Φ90
Equipped with chucks	inch	8 "	10 "	10 "	10 "	12 "	12 "
Maximum spindle speed	RPM	4500	4000	3000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6	143	143	143
C-axis resolution	1/n	1024	1024	1024	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Center high	mm	100	100	100	125	125	125
The width of the cutterhead on the opposite side	mm	420	420	420	480	480	480
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	32	32	32
Boring holder bore diameter	mm	40	40	40	50	50	50
Tailstock							
Top distance	mm	780	780	780	1150	1150	1150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	3.07*1.84*1.88	3.07*1.84*1.88	3.07*1.84*1.88	4.0*2.1*2.0	4.0*2.1*2.0	4.0*2.1*2.0
Chip conveyor length included	m	4.24	4.24	4.24	5.3	5.3	5.3
Machine weight (approx.)	kg	4500	4500	4500	7000	7000	7000

SPECIFICATIONS

NC CNC lathe

HMS series

Processing capacity	unit	HMS-2000-A	HMS-2000-B	HMS-2000-C	HMS-3000-A	HMS-3000-B	HMS-3000-C
Maximum rotation diameter	mm	Φ800	Φ800	Φ800	Φ800	Φ800	Φ800
Diameter of rotation on the saddle	mm	Φ550	Φ550	Φ550	Φ550	Φ550	Φ550
Maximum turning diameter	mm	Φ630	Φ630	Φ630	Φ630	Φ630	Φ630
Adjacent tools machining interference diameter	mm	Φ238	Φ238	Φ238	Φ238	Φ238	Φ238
Maximum turning length	mm	2000	1960	1880	3100	3060	2980
X-axis maximum travel	mm	350	350	350	350	350	350
Maximum travel in the Z-axis	mm	2100	2100	2100	3150	3150	3150
X-axis motor power	kw	3	3	3	3	3	3
Z-axis motor power	kw	3	3	3	3	3	3
Z-axis motor torque (rated/maximum)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis motor torque (rated/max)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24/24	24/24	24/24	24/24	24/24	24/24
spindle							
Spindle nose end	-	A2-8	A2-8	A2-11	A2-8	A2-8	A2-11
Spindle diameter	mm	Assembled	Assembled	Assembled	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ72	Φ72	Φ90	Φ72	Φ72	Φ90
Equipped with chucks	inch	10 "	12 "	12 "	10 "	12 "	12 "
Maximum spindle speed	RPM	2600	2600	2000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	143	143	143	143	143	143
C-axis resolution	1/n	1024X512	1024X512	1024X512	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Center high	mm	125	125	125	125	125	125
The width of the cutterhead on the opposite side	mm	480	480	480	480	480	480
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	32	32	32	32	32	32
Boring holder bore diameter	mm	50	50	50	50	50	50
Tailstock							
Top distance	mm	2050	2050	2050	3150	3150	3150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	5.25*2.36*2.26	5.25*2.36*2.26	5.25*2.36*2.26	6.63*2.36*2.26	6.63*2.36*2.26	6.63*2.36*2.26
Chip conveyor length included	m	5.95	5.95	5.95	7.83	7.83	7.83
Machine weight (approx.)	kg	8000	8000	8000	8800	8800	8800

SPECIFICATIONS

M Turning Center

HMS series

Processing capacity	unit	HMS-320M-A	HMS-320M-B	HMS-320M-C	HMS-550M-A	HMS-550M-B	HMS-550M-C
Maximum rotation diameter	mm	Φ550	Φ550	Φ550	Φ660	Φ660	Φ660
Diameter of rotation on the saddle	mm	Φ260	Φ260	Φ260	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ380	Φ380	Φ380	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ180	Φ180	Φ180	Φ203	Φ203	Φ203
Maximum turning length	mm	360	345	320	485	460	445
X-axis maximum travel	mm	250	250	250	260	260	260
Maximum travel in the Z-axis	mm	450	450	450	600	600	600
X-axis motor power	kw	1.2	1.2	1.8	1.8	1.8	3
Z-axis motor power	kw	1.2	1.2	1.8	1.8	1.8	3
X-axis motor torque (rated/max)	N.m	7.0/15.0	7.0/15.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
Z-axis motor torque (rated/maximum)	N.m	7.0/15.0	7.0/15.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	24	24	24
spindle							
Spindle nose end	-	A2-5	A2-5	A2-6	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ170	Φ170	Φ200	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ52	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	6 "	8 "	8 "	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	4000	4500	4000	3000
Spindle motor power (continuous/30min)	kw	7.5/11.0	7.5/11.0	11.0/15.0	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	35.8	35.8	52.5	52.5	52.5	71.6
C-axis resolution	1/n	1024x256	1024x256	1024x384	1024x384	1024x384	1024x512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT45	BMT45	BMT45	BMT55	BMT55	BMT55
Center high	mm	80	80	80	100	100	100
The width of the cutterhead on the opposite side	mm	290	290	290	330	330	330
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	32	32	32	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	Er25	Er25	Er25	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46	46	46	46
Maximum speed of driven knives					4000	4000	4000
Tailstock							
Top distance	mm	480	480	480	580	580	580
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	4#	4#	4#	5#	5#	5#
Form factor weight							
Machine dimensions	m	2.3*1.78*1.8	2.3*1.78*1.8	2.3*1.78*1.8	2.74*1.84*1.88	2.74*1.84*1.88	2.74*1.84*1.88
Chip conveyor length included	m	3.5	3.5	3.5	3.92	3.92	3.92
Machine weight (approx.)	kg	3500	3500	3500	4200	4200	4200

SPECIFICATIONS

M Turning Center

HMS series

Processing capacity	unit	HMS-750M-A	HMS-750M-B	HMS-750M-C	HMS-1000M-A	HMS-1000M-B	HMS-1000M-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660	Φ700	Φ700	Φ700
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400	Φ500	Φ500	Φ500
Maximum turning diameter	mm	Φ400	Φ400	Φ400	Φ630	Φ630	Φ630
Adjacent tools machining interference diameter	mm	Φ203	Φ203	Φ203	Φ240	Φ240	Φ240
Maximum turning length	mm	685	660	645	950	930	900
X-axis maximum travel	mm	260	260	260	365	365	365
Maximum travel in the Z-axis	mm	800	800	800	1100	1100	1100
X-axis motor power	kw	1.8	1.8	3	3	3	3
Z-axis motor power	kw	1.8	1.8	3	3	3	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	15/24	15/24	15/24
spindle							
Spindle nose end	-	A2-6	A2-6	A2-8	A2-8	A2-8	A2-11
Spindle diameter	mm	Φ200	Φ200	Φ230	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81	Φ72	Φ72	Φ90
Equipped with chucks	inch	8 "	10 "	10 "	10 "	12 "	12 "
Maximum spindle speed	RPM	4500	4000	3000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6	143	143	143
C-axis resolution	1/n	1024x384	1024x384	1024x512	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT55	BMT55	BMT55	BMT65	BMT65	BMT65
Center high	mm	100	100	100	125	125	125
The width of the cutterhead on the opposite side	mm	330	330	330	400	400	400
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	40	40	40	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32	ER32/40	ER32/40	ER32/40
Driven knife motor power	kw	2.7	2.7	2.7	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46	46	46	46
Maximum speed of driven knives		4000	4000	4000	4000	4000	4000
Tailstock							
Top distance	mm	780	780	780	1150	1150	1150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	3.07*1.84*1.88	3.07*1.84*1.88	3.07*1.84*1.88	4.0*2.1*2.0	4.0*2.1*2.0	4.0*2.1*2.0
Chip conveyor length included	m	4.24	4.24	4.24	5.3	5.3	5.3
Machine weight (approx.)	kg	4500	4500	4500	7200	7200	7200

SPECIFICATIONS

M Turning Center

HMS series

Processing capacity	unit	HMS-2000M-A	HMS-2000M-B	HMS-2000M-C	HMS-3000M-A	HMS-3000M-B	HMS-3000M-C
Maximum rotation diameter	mm	Φ800	Φ800	Φ800	Φ800	Φ800	Φ800
Diameter of rotation on the saddle	mm	Φ550	Φ550	Φ550	Φ550	Φ550	Φ550
Maximum turning diameter	mm	Φ600	Φ600	Φ600	Φ580	Φ580	Φ580
Adjacent tools machining interference diameter	mm	Φ241	Φ241	Φ241	Φ241	Φ241	Φ241
Maximum turning length	mm	1900	1860	1780	3000	2960	2880
X-axis maximum travel	mm	350	350	350	350	350	350
Maximum travel in the Z-axis	mm	2100	2100	2100	3150	3150	3150
X-axis motor power	kw	3	3	3	3	3	3
Z-axis motor power	kw	3	3	3	3	3	3
X-axis motor torque (rated/max)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Z-axis motor torque (rated/maximum)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24/24	24/24	24/24	24/24	24/24	24/24
spindle							
Spindle nose end	-	A2-8	A2-8	A2-11	A2-8	A2-8	A2-11
Spindle diameter	mm	Assembled	Assembled	Assembled	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ72	Φ72	Φ90	Φ72	Φ72	Φ90
Equipped with chucks	inch	10 "	12 "	12 "	10 "	12 "	12 "
Maximum spindle speed	RPM	2600	2600	2000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	143	143	143	143	143	143
C-axis resolution	1/n	1024X512	1024X512	1024X512	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT65	BMT65	BMT65	BMT65	BMT65	BMT65
Center high	mm	125	125	125	125	125	125
The width of the cutterhead on the opposite side	mm	400	400	400	400	400	400
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	40	40	40	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	ER32/40	ER32/40	ER32/40	ER32/40	ER32/40	ER32/40
Driven knife motor power	kw	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5
Driven knife torque (max)	N.m	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8
Maximum speed of driven knives		5000	5000	5000	5000	5000	5000
Tailstock							
Top distance	mm	2050	2050	2050	3150	3150	3150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	5.25*2.36*2.26	5.25*2.36*2.26	5.25*2.36*2.26	6.63*2.36*2.26	6.63*2.36*2.26	6.63*2.36*2.26
Chip conveyor length included	m	5.95	5.95	5.95	7.83	7.83	7.83
Machine weight (approx.)	kg	8000	8000	8000	8800	8800	8800

SPECIFICATIONS

MY mill-turn complex

HMS series

Processing capacity	unit	HMS-320MY-A	HMS-320MY-B	HMS-320MY-C	HMS-550MY-A	HMS-550MY-B	HMS-550MY-C
Maximum rotation diameter	mm	Φ550	Φ550	Φ550	Φ660	Φ660	Φ660
Diameter of rotation on the saddle	mm	Φ260	Φ260	Φ260	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ280	Φ280	Φ280	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ150	Φ150	Φ150	Φ208	Φ208	Φ208
Maximum turning length	mm	390	375	350	490	475	450
X-axis maximum travel	mm	210	210	210	260	260	260
Maximum travel of the Y-axis	mm	70(± 35)	70(± 35)	70(± 35)	100(± 50)	100(± 50)	100(± 50)
Maximum travel in the Z-axis	mm	450	450	450	600	600	600
X-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	3
Y-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	1.8
Z-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	24	24	24
Y-axis rapid traverse speed	m/min	12	12	12	12	12	12
spindle							
Spindle nose end	-	A2-5	A2-5	A2-6	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ170	Φ170	Φ200	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ52	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	6 "	8 "	8 "	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	4000	4500	4000	3000
Spindle motor power (continuous/30min)	kw	7.5/11.0	7.5/11.0	11.0/15.0	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	35.8	35.8	52.5	52.5	52.5	71.6
C-axis resolution	1/n	1024x256	1024x256	1024x384	1024x384	1024x384	1024x512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT40	BMT40	BMT40	BMT55	BMT55	BMT55
Center high	mm	130	130	130	165	165	165
The width of the cutterhead on the opposite side	mm	300	300	300	350	350	350
Number of tools	pcs	15	15	15	12	12	12
Square shank diameter	mm	20	20	20	25	25	25
Boring holder bore diameter	mm	25	25	25	40	40	40
Number of driven knives	pcs	15	15	15	12	12	12
Power knife lock mouth	-	Er20	Er20	Er20	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000	4000	4000	4000
Tailstock							
Top distance	mm	480	480	480	580	580	580
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	4#	4#	4#	5#	5#	5#
Form factor weight							
Machine dimensions	m	2.47*1.78*1.97	2.47*1.78*1.97	2.47*1.78*1.97	2.74*1.84*2.1	2.74*1.84*2.1	2.74*1.84*2.1
Chip conveyor length included	m	3.67	3.67	3.67	3.92	3.92	3.92
Machine weight (approx.)	kg	3700	3700	3700	4500	4500	4500

SPECIFICATIONS

MY mill-turn complex

HMS series

Processing capacity	unit	HMS-750MY-A	HMS-750MY-B	HMS-750MY-C	HMS-1000MY-A	HMS-1000MY-B	HMS-1000MY-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660	Φ700	Φ700	Φ700
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400	Φ500	Φ500	Φ500
Maximum turning diameter	mm	Φ400	Φ400	Φ400	Φ550	Φ550	Φ550
Adjacent tools machining interference diameter	mm	Φ208	Φ208	Φ208	Φ240	Φ240	Φ240
Maximum turning length	mm	690	675	650	940	920	890
X-axis maximum travel	mm	260	260	260	365	365	365
Maximum travel of the Y-axis	mm	100(± 50)	100(± 50)	100(± 50)	150(± 75)	150(± 75)	150(± 75)
Maximum travel in the Z-axis	mm	800	800	800	1100	1100	1100
X-axis motor power	kw	1.8	1.8	3	3	3	3
Y-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	1.8
Z-axis motor power	kw	1.8	1.8	3	3	3	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24	15/24	15/24	15/24
Y-axis rapid traverse speed	m/min	12	12	12	10	10	10
spindle							
Spindle nose end	-	A2-6	A2-6	A2-8	A2-8	A2-8	A2-11
Spindle diameter	mm	Φ200	Φ200	Φ230	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81	Φ72	Φ72	Φ90
Equipped with chucks	inch	8 "	10 "	10 "	10 "	12 "	12 "
Maximum spindle speed	RPM	4500	4000	3000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6	143	143	143
C-axis resolution	1/n	1024x384	1024x384	1024x512	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT55	BMT55	BMT55	BMT65	BMT65	BMT65
Center high	mm	165	165	165	195	195	195
The width of the cutterhead on the opposite side	mm	350	350	350	400	400	400
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	40	40	40	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32	ER32/40	ER32/40	ER32/40
Driven knife motor power	kw	2.7	2.7	2.7	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000	4000	4000	4000
Tailstock							
Top distance	mm	780	780	780	1150	1150	1150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	3.07*1.84*2.1	3.07*1.84*2.1	3.07*1.84*2.1	4.0*2.1*2.35	4.0*2.1*2.35	4.0*2.1*2.35
Chip conveyor length included	m	4.24	4.24	4.24	5.3	5.3	5.3
Machine weight (approx.)	kg	4800	4800	4800	7800	7800	7800

SPECIFICATIONS

MY mill-turn complex

HMS series

Processing capacity	unit	HMS-2000MY-A	HMS-2000MY-B	HMS-2000MY-C	HMS-3000MY-A	HMS-3000MY-B	HMS-3000MY-C
Maximum rotation diameter	mm	Φ800	Φ800	Φ800	Φ800	Φ800	Φ800
Diameter of rotation on the saddle	mm	Φ550	Φ550	Φ550	Φ550	Φ550	Φ550
Maximum turning diameter	mm	Φ580	Φ580	Φ580	Φ580	Φ580	Φ580
Adjacent tools machining interference diameter	mm	Φ241	Φ241	Φ241	Φ241	Φ241	Φ241
Maximum turning length	mm	1850	1810	1730	3000	2960	2880
X-axis maximum travel	mm	350	350	350	350	350	350
Maximum travel of the Y-axis	mm	150(± 75)	150(± 75)	150(± 75)	150(± 75)	150(± 75)	150(± 75)
Maximum travel in the Z-axis	mm	2100	2100	2100	3150	3150	3150
X-axis motor power	kw	3	3	3	3	3	3
Y-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	1.8
Z-axis motor power	kw	3	3	3	3	3	3
X-axis motor torque (rated/max)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0
Z-axis motor torque (rated/maximum)	N.m	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24/24	24/24	24/24	24/24	24/24	24/24
Y-axis rapid traverse speed	m/min	10	10	10	10	10	10
spindle							
Spindle nose end	-	A2-8	A2-8	A2-11	A2-8	A2-8	A2-11
Spindle diameter	mm	Assembled	Assembled	Assembled	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ72	Φ72	Φ90	Φ72	Φ72	Φ90
Equipped with chucks	inch	10 "	12 "	12 "	10 "	12 "	12 "
Maximum spindle speed	RPM	2600	2600	2000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	143	143	143	143	143	143
C-axis resolution	1/n	1024X512	1024X512	1024X512	1024X512	1024X512	1024X512
Control system		FANUC 0i-TF Plus (3B)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT65	BMT65	BMT65	BMT65	BMT65	BMT65
Center high	mm	195	195	195	195	195	195
The width of the cutterhead on the opposite side	mm	400	400	400	400	400	400
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	40	40	40	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	ER32/40	ER32/40	ER32/40	ER32/40	ER32/40	ER32/40
Driven knife motor power	kw	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5	3.7/5.5
Driven knife torque (max)	N.m	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8	17.7/47.8
Maximum speed of driven knives	rpm	5000	5000	5000	5000	5000	5000
Tailstock							
Top distance	mm	2050	2050	2050	3150	3150	3150
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#	5#	5#	5#
Form factor weight							
Machine dimensions	m	5.25*2.36*2.45	5.25*2.36*2.45	5.25*2.36*2.45	6.33*2.36*2.45	6.33*2.36*2.45	6.33*2.36*2.45
Chip conveyor length included	m	5.95	5.95	5.95	7.83	7.83	7.83
Machine weight (approx.)	kg	8500	8500	8500	9300	9300	9300

SPECIFICATIONS

MYS two-axis turn-mill complex

HMS series

Processing capacity	unit	HMS-550MYS-A	HMS-550MYS-B	HMS-550MYS-C
Maximum rotation diameter	mm	Φ580	Φ580	Φ580
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ208	Φ208	Φ208
Maximum turning length	mm	435	420	395
X-axis maximum travel	mm	255	255	255
Maximum travel of the Y-axis	mm	100(±50)	100(±50)	100(±50)
Z1 axis maximum travel	mm	600	600	600
Z2 axis maximum travel	mm	400	400	400
X-axis motor power	kw	1.8	1.8	3
Y-axis motor power	kw	1.8	1.8	1.8
Z1 axis motor power	kw	1.8	1.8	3
Z2 axis motor power	kw	1.8	1.8	1.8
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0
Z1 axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Z2-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0
X-axis/Z1-axis rapid traverse speed	m/min	24	24	24
Y-axis rapid traverse speed	m/min	12	12	12
Z2 axis rapid traverse speed	m/min	24	24	24
spindle				
Spindle nose end	-	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	8"	10"	10"
Maximum spindle speed	RPM	4500	4000	3000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6
C-axis resolution	1/n	1024x384	1024x384	1024x512
Sub-spindle				
Sub-spindle nose	-	A2-5	A2-5	A2-5
Sub-spindle diameter	mm	Φ170	Φ170	Φ170
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ46
Equipped with chucks	inch	6"	6"	6"
Maximum speed of the sub-spindle	RPM	5500	5500	5500
Sub-spindle motor power (continuous/30min)	kw	11.3/14.4	11.3/14.4	11.3/14.4
Sub-spindle motor torque (rated)	N.m	45	45	45
C2 axis resolution	1/n	1024x256	1024x256	1024x256
Control system		FANUC 0i-TF Plus (1)		
Turret				
Interface specifications	-	BMT55	BMT55	BMT55
Center high	mm	165	165	165
The width of the cutterhead on the opposite side	mm	350	350	350
Number of tools	pcs	12	12	12
Square shank diameter	mm	25	25	25
Boring holder bore diameter	mm	40	40	40
Number of driven knives	pcs	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000
Form factor weight				
Machine dimensions	m	2.74*1.84*2.1	2.74*1.84*2.1	2.74*1.84*2.1
Includes the water tank chip conveyor length	m	3.92	3.92	3.92
Machine weight (approx.)	kg	5000	5000	5000

SPECIFICATIONS

MYS two-axis turn-mill complex

HMS series

Processing capacity	unit	HMS-750MYS-A	HMS-750MYS-B	HMS-750MYS-C	HMS-1000LMYS-A	HMS-1000LMYS-B	HMS-1000LMYS-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660	Φ780	Φ780	Φ780
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400	Φ500	Φ500	Φ500
Maximum turning diameter	mm	Φ400	Φ400	Φ400	Φ500	Φ500	Φ500
Adjacent tools machining interference diameter	mm	Φ208	Φ208	Φ208	Φ241	Φ241	Φ241
Maximum turning length	mm	635	620	595	1330	1290	1200
X-axis maximum travel	mm	255	255	255	350	350	350
Maximum travel of the Y-axis	mm	100(±50)	100(±50)	100(±50)	150(±75)	150(±75)	150(±75)
Z1 axis maximum travel	mm	800	800	800	1600	1600	1600
Z2 axis maximum travel	mm	660	660	660	1500	1500	1500
X-axis motor power	kw	1.8	1.8	3	3	3	3
Y-axis motor power	kw	1.8	1.8	1.8	1.8	1.8	1.8
Z1 axis motor power	kw	1.8	1.8	3	3	3	3
Z2 axis motor power	kw	1.8	1.8	1.8	3	3	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0	11.0/27.0
Z1 axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0	20.0/45.0
Z2-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0	20.0/45.0	20.0/45.0	20.0/45.0
X-axis/Z1-axis rapid traverse speed	m/min	24	24	24	24	24	24
Y-axis rapid traverse speed	m/min	12	12	12	12	12	12
Z2 axis rapid traverse speed	m/min	24	24	24	24	24	24
spindle							
Spindle nose end	-	A2-6	A2-6	A2-8	A2-8	A2-8	A2-11
Spindle diameter	mm	Φ200	Φ200	Φ230	Assembled	Assembled	Assembled
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81	Φ72	Φ72	Φ90
Equipped with chucks	inch	8"	10"	10"	10"	12"	12"
Maximum spindle speed	RPM	4500	4000	3000	2600	2600	2000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5	15.0/18.5	15.0/18.5	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6	143	143	143
C-axis resolution	1/n	1024x384	1024x384	1024x512	1024x384	1024x384	1024x512
Sub-spindle							
Sub-spindle nose	-	A2-5	A2-5	A2-5	A2-6	A2-6	A2-6
Sub-spindle diameter	mm	Φ170	Φ170	Φ170	Φ200	Φ200	Φ200
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ46	Φ52	Φ52	Φ52
Equipped with chucks	inch	6"	6"	6"	8"	8"	8"
Maximum speed of the sub-spindle	RPM	5500	5500	5500	4300	4300	4300
Sub-spindle motor power (continuous/30min)	kw	11.3/14.4	11.3/14.4	11.3/14.4	22.15/31.6	22.15/31.6	22.15/31.6
Sub-spindle motor torque (rated)	N.m	45	45	45	91.154	91.154	91.154
C2 axis resolution	1/n	1024x256	1024x256	1024x256	1024x384	1024x384	1024x384
Control system		FANUC 0i-TF Plus (1)			FANUC 0i-TF Plus (3B)		
Turret							
Interface specifications	-	BMT55	BMT55	BMT55	BMT65	BMT65	BMT65
Center high	mm	165	165	165	195	195	195
The width of the cutterhead on the opposite side	mm	350	350	350	400	400	400
Number of tools	pcs	12	12	12	12	12	12
Square shank diameter	mm	25	25	25	25	25	25
Boring holder bore diameter	mm	40	40	40	40	40	40
Number of driven knives	pcs	12	12	12	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32	ER32/40	ER32/40	ER32/40
Driven knife motor power	kw	2.7	2.7	2.7	3.7/5.5	3.7/5.5	3.7/5.5
Driven knife torque (max)	N.m	46	46	46	17.7/47.8	17.7/47.8	17.7/47.8
Maximum speed of driven knives	rpm	4000	4000	4000	5000	5000	5000
Form factor weight							
Machine dimensions	m	3.07*1.84*2.1	3.07*1.84*2.1	3.07*1.84*2.1	4.57*2.1*2.45	4.57*2.1*2.45	4.57*2.1*2.45
Includes the water tank chip conveyor length	m	4.24	4.24	4.24	5.8	5.8	5.8
Machine weight (approx.)	kg	5300	5300	5300	8000	8000	8000

SPECIFICATIONS

NC CNC lathe

HMS series

Processing capacity	unit	HMS-750L-A	HMS-750L-B	HMS-750L-C
Maximum rotation diameter	mm	Φ580	Φ580	Φ580
Diameter of rotation on the saddle	mm	Φ330	Φ330	Φ330
Maximum turning diameter	mm	Φ450	Φ450	Φ450
Adjacent tools machining interference diameter	mm	Φ202	Φ202	Φ202
Maximum turning length	mm	1000	985	960
X-axis maximum travel	mm	260	260	260
Maximum travel in the Z-axis	mm	1050	1050	1050
X-axis motor power	kw	1.8	1.8	3
Z-axis motor power	kw	1.8	1.8	3
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24
spindle				
Spindle nose end	-	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	3000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6
C-axis resolution	1/n	1024	1024	1024
Control system		FANUC 0i-TF Plus (3B)		
Turret				
Center high	mm	100	100	100
The width of the cutterhead on the opposite side	mm	420	420	420
Number of tools	pcs	12	12	12
Square shank diameter	mm	25	25	25
Boring holder bore diameter	mm	40	40	40
Tailstock				
Top distance	mm	1030	1030	1030
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#
Form factor weight				
Machine dimensions	m	3.28*1.84*1.88	3.28*1.84*1.88	3.28*1.84*1.88
Chip conveyor length included	m	4.44	4.44	4.44
Machine weight (approx.)	kg	5000	5000	5000

SPECIFICATIONS

M Turning Center

HMS series

Processing capacity	unit	HMS-750LM-A	HMS-750LM-B	HMS-750LM-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ203	Φ203	Φ203
Maximum turning length	mm	935	910	895
X-axis maximum travel	mm	255	255	255
Maximum travel in the Z-axis	mm	1050	1050	1050
X-axis motor power	kw	1.8	1.8	3
Z-axis motor power	kw	1.8	1.8	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24
spindle				
Spindle nose end	-	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	3000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6
C-axis resolution	1/n	1024x384	1024x384	1024x512
Control system		FANUC 0i-TF Plus (3B)		
Turret				
Interface specifications	-	BMT55	BMT55	BMT55
Center high	mm	100	100	100
The width of the cutterhead on the opposite side	mm	330	330	330
Number of tools	pcs	12	12	12
Square shank diameter	mm	25	25	25
Boring holder bore diameter	mm	40	40	40
Number of driven knives	pcs	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000
Tailstock				
Top distance	mm	1030	1030	1030
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#
Form factor weight				
Machine dimensions	m	3.28*1.84*1.88	3.28*1.84*1.88	3.28*1.84*1.88
Chip conveyor length included	m	4.44	4.44	4.44
Machine weight (approx.)	kg	5000	5000	5000

SPECIFICATIONS

MY mill-turn complex

HMS series

Processing capacity	unit	HMS-750LMY-A	HMS-750LMY-B	HMS-750LMY-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ208	Φ208	Φ208
Maximum turning length	mm	940	925	900
X-axis maximum travel	mm	255	255	255
Maximum travel of the Y-axis	mm	100(± 50)	100(± 50)	100(± 50)
Maximum travel in the Z-axis	mm	1050	1050	1050
X-axis motor power	kw	1.8	1.8	3
Y-axis motor power	kw	1.8	1.8	1.8
Z-axis motor power	kw	1.8	1.8	3
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0
Z-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
X-axis/Z-axis rapid traverse speed	m/min	24	24	24
Y-axis rapid traverse speed	m/min	12	12	12
spindle				
Spindle nose end	-	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	3000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6
C-axis resolution	1/n	1024x384	1024x384	1024x512
Control system		FANUC 0i-TF Plus (3B)		
Turret				
Interface specifications	-	BMT55	BMT55	BMT55
Center high	mm	165	165	165
The width of the cutterhead on the opposite side	mm	350	350	350
Number of tools	pcs	12	12	12
Square shank diameter	mm	25	25	25
Boring holder bore diameter	mm	40	40	40
Number of driven knives	pcs	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000
Tailstock				
Top distance	mm	1030	1030	1030
Drive mode	-	Z-axis driven	Z-axis driven	Z-axis driven
Ejector pin interface	mk	5#	5#	5#
Form factor weight				
Machine dimensions	m	3.28*1.84*2.1	3.28*1.84*2.1	3.28*1.84*2.1
Chip conveyor length included	m	4.44	4.44	4.44
Machine weight (approx.)	kg	5200	5200	5200

SPECIFICATIONS

MYS two-axis turn-mill complex

HMS series

Processing capacity	unit	HMS-750LMYS-A	HMS-750LMYS-B	HMS-750LMYS-C
Maximum rotation diameter	mm	Φ660	Φ660	Φ660
Diameter of rotation on the saddle	mm	Φ400	Φ400	Φ400
Maximum turning diameter	mm	Φ400	Φ400	Φ400
Adjacent tools machining interference diameter	mm	Φ208	Φ208	Φ208
Maximum turning length	mm	885	870	845
X-axis maximum travel	mm	260	260	260
Maximum travel of the Y-axis	mm	100(± 50)	100(± 50)	100(± 50)
Z1 axis maximum travel	mm	1050	1050	1050
Z2 axis maximum travel	mm	910	910	910
X-axis motor power	kw	1.8	1.8	3
Y-axis motor power	kw	1.8	1.8	1.8
Z1 axis motor power	kw	1.8	1.8	3
Z2 axis motor power	kw	1.8	1.8	1.8
X-axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Y-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0
Z1 axis motor torque (rated/max)	N.m	11.0/27.0	11.0/27.0	20.0/45.0
Z2-axis motor torque (rated/maximum)	N.m	11.0/27.0	11.0/27.0	11.0/27.0
X-axis/Z1-axis rapid traverse speed	m/min	24	24	24
Y-axis rapid traverse speed	m/min	12	12	12
Z2 axis rapid traverse speed	m/min	24	24	24
spindle				
Spindle nose end	-	A2-6	A2-6	A2-8
Spindle diameter	mm	Φ200	Φ200	Φ230
Bar stock pass size (standard/optional)	mm	Φ52/65	Φ52/65	Φ75/81
Equipped with chucks	inch	8 "	10 "	10 "
Maximum spindle speed	RPM	4500	4000	3000
Spindle motor power (continuous/30min)	kw	11.0/15.0	11.0/15.0	15.0/18.5
Spindle motor torque (rated)	N.m	52.5	52.5	71.6
C-axis resolution	1/n	1024x384	1024x384	1024x512
Sub-spindle				
Sub-spindle nose	-	A2-5	A2-5	A2-5
Sub-spindle diameter	mm	Φ170	Φ170	Φ170
Bar stock pass size (standard/optional)	mm	Φ46	Φ46	Φ46
Equipped with chucks	inch	6 "	6 "	6 "
Maximum speed of the sub-spindle	RPM	5500	5500	5500
Sub-spindle motor power (continuous/30min)	kw	11.3/14.4	11.3/14.4	11.3/14.4
Sub-spindle motor torque (rated)	N.m	45	45	45
C2 axis resolution	1/n	1024x256	1024x256	1024x256
Control system		FANUC 0i-TF Plus (1)		
Turret				
Interface specifications	-	BMT55	BMT55	BMT55
Center high	mm	165	165	165
The width of the cutterhead on the opposite side	mm	350	350	350
Number of tools	pcs	12	12	12
Square shank diameter	mm	25	25	25
Boring holder bore diameter	mm	40	40	40
Number of driven knives	pcs	12	12	12
Power knife lock mouth	-	Er32	Er32	Er32
Driven knife motor power	kw	2.7	2.7	2.7
Driven knife torque (max)	N.m	46	46	46
Maximum speed of driven knives	rpm	4000	4000	4000
Form factor weight				
Machine dimensions	m	3.28*1.84*2.1	3.28*1.84*2.1	3.28*1.84*2.1
Includes the water tank chip conveyor length	m	4.44	4.44	4.44
Machine weight (approx.)	kg	5700	5700	5700