

Swiss-type precision CNC lathe

HS-820

Maximum spindle rotation speed:10,000rpm

Single clip can be processed length. :190mm

Optional maximum clip loading device. : \varnothing 20mm



Main technical parameters

	Project	
Specification references	Maximum machining diameter	\varnothing 20mm
	Maximum machining length	190mm
	Axial maximum drilling diameter	\varnothing 10mm
	Axial maximum tapping size	M8
	Spindle through hole diameter	23mm
	Maximum spindle speed	10000rpm
	System device	Mitsubishi M80 /Syntec210TB/220TB
	Speed of spindle	Max.10000r/min
	Side milling maximum tapping diameter	Max.M8(copper)
	Maximum speed of side milling	Max.6000r/min
	Maximum support diameter of the back side spindle	20mm
	Maximum medium output of the back side spindle	50mm

	Maximum bore diameter of the back-side spindle	Max.010
	Machining of back spindle thread	Max.M8(steel)
	Back spindle speed	Max.8000r/min
	Back tool drilling diameter	Max.Ø10
	Turning tools	6*□12
	Side milling power knife seat	2*ER11+3*ER16 (Two of them are plug-in power units)
	End surface fixed knife seat	5*ER16
	Back shaft end surface power knife holder	Fixed 4 * ER16 + spin 4 * ER16
	End surface power knife seat	3*ER11+3*ER11Two-way (optional)
	Displacement speed	32m/min(Y1/Z1/X2) 20m/min(X1/Y2) 24m/min(Z2)
	Power of spindle motor	2.2KW/3.7KW
	Sub-spindle motor power	1.5KW/2.2KW
	Side-milling and back-end milling motor power	1. OKW (side milling) 0.75KW (back end milling)
	Feed motor power	1.OKW(X1/Y1/Z1/X2/Z2) 0.75KW(Y2)
	Total power of machine tool	12KW
	Radial power head maximum rotation speed	ER11:10000/ER16:8000
	Rated rotation speed of the radial power head	ER11:8000/ER16:6000
	Maximum removal length of piece	100mm
Tool dimension	Number of knives installed	6
	Tool(turning tool)	□12X12
	Sleeve	Φ25.0 X 4 piece
Clip head guide sleeve	Spindle spring clip head	TSUGAMI B0265CCR
	Power head clip head	ER11、 ER16
	Sleeve	TSUGAMI BS-20#-B
Feeding speed	Z1/Z2/X2/Y/Y2 axis feed velocity	30m/min
	X1	24m/min
Electric motor	Spindle drive power	2.5/3.7KW
	Power head drive power	1KW
	For cutting fluid	0.4KW
	Cooling of spindle	0.075KW
	Lubricating oil	0.01KW
Others	Spindle center height	1060mm
	Barometric flow	0.7mpa 0.5m³/min
	Main circuit breaker capacity	40A
	Input power	12KW
	Weight	2.6 Ton
	Overall dimensions	2250X1200X2000mm

Main features:

+Turning、 side milling、 end milling

+Drill holes on both sides of end face, tapping, chamfer

- +Side drilling for tapping the tooth chamfer
- +End boring, side boring
- +Same direction attack teeth
- +Spindle indexing
- +Automatic feeding, workpiece automatic cutting and one-time processing of the spindle back axis

Equipment introduction:

1. High rigidity spindle architecture and equipped with electric spindle.
2. Rotary operation panel
3. Centralized oil-cooling circulation system
4. Large capacity workpiece box/High brightness LED work lights/Operation panel USB interface/Large capacity cutting fluid, chip box/Multi-cutting fluid nozzle

Free selection of accessories:

Fixed guide sleeve device

Material slag conveyor belt

Rear tool table rotating tool drive device

Double-end face rotary tool

Deep hole gun drill system

Workpiece recovery belt

Cutting oil flow monitoring device

End face rotating tool

Automatic feeder

可安装多达 27 把刀具，满足您的多样加工需求
Up to 27 tools can be installed, satisfying various demands

动力刀具 Rotary Tools

ER16 可换动力刀座 ER16 Switchable Tool Post
(额定 / 最高转速: 4500 / 7500rpm)
Rated / Max Speed: 4500/7500rpm
ER16×3

可选配 5 轴型动力刀座 Optional 5-axis Rotary Tools

ER11×2
(额定 / 最高转速: 6000 / 10000rpm)
Rated / Max Speed: 6000/10000rpm
ER16×3

排刀 Turning Tools
排刀车削刀具 Turning tools: □12×5+□16×1

背面刀具 Back Tools
旋转刀具 Rotary tools: ER16×2 (选配 Op: ER16×4)
固定刀具 Fixed tools: ER16×2 (选配 Op: ER16×4)

ER16 铣削单元 ER16 milling unit
占位 Slot: 1
规格 Spec.: ER16×1

旋风铣单元 Whirling milling unit
占位 Slot: 2
规格 Spec.: 定制 Various
角度范围 Angle range: 0-20°

多角度端铣单元 Adjustable milling unit
占位 Slot: 2
规格 Spec.: ER16×3
角度范围 Angle range: 0-90°

对向型钻铣单元 Double face milling unit
占位 Slot: 1
规格 Spec.: ER11×(3+3)

多边形加工单元 Polygon milling unit
占位 Slot: 1
规格 Spec.: 定制 Various

铣槽单元 Groove milling unit
占位 Slot: 2
规格 Spec.: 定制 Various

套筒座 End face tool post
占位 Slot: 1
规格 Spec.: Ø22×4

单向型钻铣单元 End face milling unit
占位 Slot: 1
规格 Spec.: ER16×3

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Heart-type precision CNC lathe

(HS-320)

Maximum spindle rotation speed:10,000rpm

Single clip can be processed length. :190mm

Optional maximum clip loading device. : \varnothing 20mm



Main technical parameters

	Project	
Processing references	Maximum machining	\varnothing 20mm
	Maximum machining length	190mm
	Maximum axial bore diameter	\varnothing 10mm
	Maximum axial work wire size	M8
	Maximum spindle speed	10000rpm
	Radial maximum bore diameter	\varnothing 7mm
	Radial maximum bore tapping size	M6
	Radial power head maximum rotation speed	ER11:10000/ER16:8000
	Rated speed of radial power head	ER11:8000/ER16:6000
	Maximum workpiece removal length	100mm
Tool dimension	Number of knives installed	6

	Tool (turning tool)	□12X12
	sleeve	Φ25.0 X 4 piece
Clip head guide sleeve	Spindle spring collet	TSUGAMI B0205CCR
	Power head collet	ER11、ER16
	Guide bushing	TSUGAMI BS-20#-B
Feeding speed	Z1/Y1-axis feed velocity	30m/min
	X1 axis feed velocity	20m/min
Electric motor	Spindle drive power	2.5/3.7KW
	Power head drive power	1KW
	For cutting fluid	0.4KW
	Cooling of spindle	0.075KW
	Lubricating oil	0.01KW
Others	Spindle center height	1060mm
	Barometric flow	0.7mpa 0.5m ³ /min
	Main circuit breaker capacity	40A
	Input power	9.3KW
	Weight	2.6 Ton
	Overall dimensions	2250X1200X1850mm

Main features:

- +Turning, side milling, end milling
- +Drill holes on both sides of end face, tapping, chamfer
- +Side drilling for tapping the tooth chamfer
- +End boring, side boring
- +Same direction attack teeth
- +Spindle indexing
- +Automatic feeding, workpiece automatic cutting and one-time processing of the spindle back axis

Equipment introduction:

1. High rigidity spindle architecture and equipped with electric spindle.
2. Rotary operation panel
3. Centralized oil-cooling circulation system
4. Large capacity workpiece box/High brightness LED work lights/Operation panel USB interface/Large capacity cutting fluid, chip box/Multi-cutting fluid nozzle

Free selection of accessories:

- Fixed guide sleeve device
- Double-end face rotary tool
- Deep hole gun drilling system
- Cutting oil flow monitoring device
- End face rotating tool
- Automatic feeder

Swiss-type precision CNC lathe

(HS-926)

Maximum spindle rotation speed:10,000rpm

Single clip can be processed length. :200mm

Optional maximum clip loading device. : \varnothing 26mm



Main technical parameters

	Project	
Processing references	Maximum machining diameter	Φ26mm
	Maximum machining length	190mm
	Maximum axial bore diameter	Φ10mm
	Maximum axial work wore size	M8
	Maximum spindle speed	10000rpm
	Radial max bore diameter	Φ7mm
	Radial max bore tapping size	M6
	Radial power head max rotation speed	ER11:10000/ER16:8000
	Rated speed of radial power head	ER11:8000/ER16:6000
	Max workpiece removal length	100mm
Tool dimension	Number of knives installed	6
	Tool (turning tool)	□12X12
	sleeve	Φ25.0 X 4 piece
Clip head guide sleeve	Spindle spring collet	TSUGAMI B0265CCR
	Power head collet	ER11、ER16
	Guide bushing	TSUGAMI BS-20#-B
Feeding speed	Z1/Z2/X2/Y-axis feed velocity	30m/min
	X1-axis feed velocity	20m/min
Electric motor	Spindle drive power	2.5/3.7KW
	Power head drive power	1KW
	For cutting fluid	0.4KW
	For cooling of spindle	0.075KW
	For lubricating oil	0.01KW
Others	Spindle center height	1060mm
	Barometric flow	0.7mpa 0.5m ³ /min
	Main circuit breaker capacity	40A
	Input power	9.3KW
	Weight	2.6 Ton
	Overall size	2250X1200X2000mm

Main features:

- +Turning、side milling、end milling
- +Drill holes on both sides of end face,tapping,chamfer
- +Side drilling for tapping the tooth chamfer
- +End boring,side boring
- +Same direction attack teeth
- +Spindle indexing
- +Automatic feeding,workpiece automatic cutting and one-time processing of the spindle back axis

Equipment introduction:


- 1.High rigidity spindle architecture and equipped with electric spindle.
- 2.Rotary operation panel
- 3.Centralized oil-cooling circulation system
- 4.Large capacity workpiece box/High brightness LED work lights/Operation panel USB interface/Large capacity cutting fluid, chip box/Multi-cutting fluid nozzle

Free selection of accessories:

- Fixed guide sleeve device
- Material slag conveyor belt
- Rear tool table rotating tool drive device
- Double-end face rotary tool
- Deep hole gun drill system
- Workpiece recovery belt
- Cutting oil flow monitoring device
- End face rotating tool
- Automatic feeder

可安装多达 27 把刀具，满足您的多样加工需求
Up to 27 tools can be installed, satisfying various demands

动力刀具
Rotary Tools



ER16 可换动力刀座
ER16 Switchable Tool Post

(额定 / 最高转速: 4500 / 7500rpm)
Rated / Max Speed: 4500/7500rpm

ER16×3

可选配 5 轴型动力刀座
Optional 5-axis Rotary Tools




ER11×2
(额定 / 最高转速: 6000 / 10000rpm)
Rated / Max Speed: 6000/10000rpm

ER16×3

排刀
Turning Tools
排刀车削刀具 Turning tools: □12×5+□16×1

背面刀具
Back Tools
旋转刀具 Rotary tools: ER16×2 (选配 Op: ER16×4)
固定刀具 Fixed tools: ER16×2 (选配 Op: ER16×4)




ER16 铣削单元
ER16 milling unit
占位 Slot: 1
规格 Spec.: ER16×1




旋风铣单元
Whirling milling unit
占位 Slot: 2
规格 Spec.: 客制 Various
角度范围 Angle range: 0-20°




多角度端铣单元
Adjustable milling unit
占位 Slot: 2
规格 Spec.: ER16×3
角度范围 Angle range: 0-90°



对向型钻铣单元
Double face milling unit
占位 Slot: 1
规格 Spec.: ER11×(3+3)




多边形加工单元
Polygon milling unit
占位 Slot: 1
规格 Spec.: 客制 Various



铣槽单元
Groove milling unit
占位 Slot: 2
规格 Spec.: 客制 Various



套筒座
End face tool post
占位 Slot: 1
规格 Spec.: Ø22×4



单向型钻铣单元
End face milling unit
占位 Slot: 1
规格 Spec.: ER16×3

Swiss-type precision CNC lathe

(HS-512)

Maximum spindle rotation speed:10,000rpm

Single clip can be processed length. :60mm

Optional maximum clip loading device. : \varnothing 12mm



	Project	
Processing references	Maximum machining diameter	Φ12mm
	Maximum machining length	60mm
	Maximum axial bore diameter	Φ7mm
	Maximum axial work wore size	M5
	Maximum spindle speed	6000rpm
	Maximum grip diameter of the back shaft	Φ12mm
	Maximum boreholediameter of the backshaft end face	Φ5mm
	Maximum tappingdiameter of back shaft end surface	M5
	The highest speed of the main shaft	12000rpm
	Max workpiece removal length	40mm
Tool system	Number of knives installed	21
	Tool (turning tool)	□10X100
	Sleeve (20mm * 4 front; 20mm * 5 back	9 piece
Clip head guide sleeve	Spindle spring collet	HA12
	Back spring clip head	HA12
	collet head	ER11
	Guide bushing	HA12
Feeding speed	Z1/Z2/X2/Y2-axis feed velocity	24m/min
	X1-axis feed velocity	18m/min
Electric power	Spindle power	1.5/2.5KW
	Backshaft power	1.1/1.5KW
Main axle	Center height of spindle	1000mm
	Spindle type	Servo-synchronous electric spindle
	Spindle seal	Hermetic seal
Others	The required pressure and flow rate of the pneumatic unit	0.4MPa, m ³ /0.5min
	Aggregate capacity	8KW
	Weight	1650kg
	Dimension	1800*1100*1700mm

Main features:

- + Turning
- + Drill holes on both sides of end face, tapping, chamfer
- + End boring, side boring
- + Automatic feeding, workpiece automatic cutting and one-time processing of the spindle back axis

Equipment introduction:

1. More economic: High quality, low price, the highest cost performance.
- 2 High efficiency: Compact row blade design, the main and back shaft can be processed at the same time.
- 3 High-precision : 0.002mm。 A shorter repeat positioning accuracy of 0.002mm

Design feature:

- + Easy to exhaust
- + Diversified tool arrangement
- + Air curtain protection of the main back axis
- + The tail is shorter

Free selection of accessories:

Fixed guide sleeve device
Oil mist collector
High frequency milling power
Back discharge device of backshaft
Rear tool table rotating tool drive device
High pressure oil pump
Auto-feeder

Double spindle CNC row cut lathe
(HS-P15)



Main technical parameters

	Project	
Processing references	Maximum machining diameter	15mm(spindle)12.7mm(back spindle)
	2.5DMaximum machining length 2.5D	35mm
	Maximum axial bore diameter	Φ7mm
	Maximum axial work wire size	M6
	Maximum spindle speed(short time)	10000rpm
	Maximum back spindle (short time)	12000rpm
	Maximum workpiece removal length	35mm
Maximum stroke	X1 axis	285mm
	Z1 axis	170mm
	X2 axis	285mm
	Z2 axis	170mm
Tool	Blade size	310mm
	Maximum number of tool installations	8
	Tool (turning tool)	□12X12
	Sleeve	Φ20
	Height from blade holder to spindle center	45mm
Collet	Spindle collet	External teeth 18.1x21 teeth (M18X1.2) 76 length
	Back spindle collet	HA12
Feeding speed	X1/X2 axis feed velocity	30m/min
	Z1/Z2 axis feed velocity	15m/min
Electric motor	Spindle drive power	2.5/3.7KW
	X1,X2,Z1,Z2 power	0.75KW
	For cutting fluid	0.4KW
Others	Spindle center height	1010mm
	Barometric flow	0.7mpa 0.5m³/min
	Main circuit breaker capacity	40A
	Input power	5.0KW
	Weight	2400Kg
	Overall dimensions	1850X1450X1600mm

Equipment introduction:

1. The spindle and the back spindle all adopt the high-precision internal-mounted electric spindle.
2. Dual-channel design, significantly improve the production efficiency.
3. The spindle and back spindle are equipped with independent cutting board, which can shorten the processing time through independent processing on the front / back.

Free selection of accessories:

Side milling power head (2XER11)
High pressure oil circuit (three ways)
Cutting tool detection device

Double spindle CNC row cut lathe

(HS-P26)



Main technical parameters

	Project	
Processing references	Maximum machining diameter	Φ26mm
	2.5DMaximum machining length 2.5D	50mm
	Maximum axial bore diameter	Φ10mm
	Maximum axial work wore size	M6
	Maximum spindle speed(Short time)	10000rpm
	Maximum back speed(Short time)	12000rpm
	Max workpiece removal length	40mm
Maximum stroke	X1 axis	375mm
	Z1 axis	180mm
	X2 axis	375mm
	Z2 axis	180mm
Tool	Knife board size	390mm
	Maximum number of tool mounted	8
	Tool (turning tool)	□16X16
	sleeve	Φ25
	Cutter seat to spindle center height	45mm
Clip head	Spindle collet	HB26
	Backshaft clip head	HB26
Feeding speed	X1 / X2 axis feed speed	15m/min
	Z1 / Z2 axial feed speed	15m/min
Electric motor	Spindle drive power	2.5/3.7KW
	The back shaft drives power	1.5/2.5KW
	X1/X2/Z1/Z2 Power	1.1KW
	For cutting fluid	0.4KW
Others	Spindle center height	1200mm
	Barometric flow	0.7mpa 0.5m ³ /min
	Main circuit breaker capacity	40A
	Input power	7.0KW
	Weight	2700Kg
	Overall size	1950X14550X1700mm

Equipment introduction:

1. The spindle and the back spindle all adopt the high-precision internal-mounted electric spindle.
2. Dual-channel design, significantly improve the production efficiency.
3. The spindle and back spindle are equipped with independent cutting board, which can shorten the processing time through independent processing on the front / back.

Free selection of accessories:

Side milling power head (2XER11)
High pressure oil circuit (three ways)
Cutting tool detection device

Vehicle-milling composite CNC lathe

(HS-1146Y)



Main technical parameters

Maximum machining length		100mm
)Standard machining diameter (clamp diameter)	Spindle	ø46mm
	Sub-spindle	ø34mm
Turret travel	X1 axis	140mm
	Z1 axis	285mm
	Y1 axis	70(±35)mm
Back axis stroke	Z2 axis	360mm
Number of spindle		2
Maximum revolution	Spindle	4,500min ⁻¹
	Sub-spindle	4,500min ⁻¹

Chuck size (optional)	Spindle	6" Hollow chuck
	Sub-spindle	4" Hollow chuck
Number of knife tower		1
Type of knife tower		12 Corner turret
Tool dimension		□20mm
Size of the tool holder hole		ø25mm
Installation number of rotational cutting tool		Up to 12
Maximum revolution of rotational		5,000min ⁻¹ (rating 4000 min ⁻¹)
Fast feeding speed	X1 axis	20m/min
	Z1 axis	20m/min
	Y1 axis	12m/min
	Z2 axis	20m/min
Motor	Spindle	7.5/5.5kW(15 minutes/rating)
	Sub-spindle	5.5/3.7kW(15 minutes/rating)
	Rotational cutting tool	1.0kW(rating)
Power capacity		30kw
Machine height		1,750mm
Machine area		2,350(length)×1,450(width)mm
Weight		3,800kg

Equipment introduction:

1. The spindle and the back spindle all adopt the high-precision internal-mounted electric spindle.
2. Dual-channel design, significantly improve the production efficiency.

Five knife with the moving CNC lathe (HS-W20)



Main technical parameters

control system	HANBS self-innovate (yn 1.0 versions)
Servo axis number	Standard 12 axis
Programming method	5-channels G code programming, each axis can be programmed separately
The number of knives	Group 5
Maximum machining diameter	Φ15mm Φ20mm
Maximum machining length(50mm in guide mode)	The walking knife mode is 50mm
Maximum axial bore diameter (When the back shaft is 12mm and the handle is 10mm)	Φ6mm
Drilling arm handle diameter	∅ 5 (Three)∅ 6 (Two)
Attack capability (spindle reversal mode)	M6 Copper
Dental tapping ability (Back axis simultaneous rapid tapping)	M5 Copper
Threading function	Yes
Multi-knife synchronous processing function	Yes
Radial max bore diameter	Φ7mm
Radial max bore tapping size	M5
Maximum clamping diameter of the back side spindle	∅ 12mm
Maximum bore diameter of the back-side spindle	∅ 6mm
Maximum tapping diameter of the back-side spindle	M6
Spindle power	2KW(With the function of score)
Backside platform axle power	1.0KW
Back maximum speed (for short use only)	6000rpm
Maximum removal length of piece	50mm
Side power tool unit (optional)	2
End face power tool unit (optional)	1
Row knife (□ 8 * 120 * 3)	3
Standard maximum number of tool installed (5 knives + 5 drill / boring)	10

Free selection of accessories:

Automatic feeder	optional
Side milling function	optional
End milling function	optional(Cyclone milling can be added)
The back spindle	optional
Multi-axis drilling on the back	optional
Attack your teeth quickly in the same direction	optional
Super long rod processing	optional (With an automatic feeding mechanism)
Automatic collector	optional
The material box	Low match version standard