



SWISS-TYPE LATHE SERIES

FULL SERIES WITH THERMAL COMPENSATION FUNCTION

COMMITTED TO BECOMING
TRUSTWORTHY SWISS-TYPE LATHE BRAND



SWISS LATHE ONLINE JSWAY ONLINE Email:sales05@jswaymachinetool.com
Web: www.jswaymachinetool.com Tel: +86 760 2218 5850
Add: No. 3, Zhichuang Road, Intelligent Manufacturing Equipment Industrial Park,
Banfu Town, Zhongshan City, Guangdong Province, China. 528459

ZHONGSHAN JSWAY CNC MACHINE TOOL CO.,LTD

DREAM OF JSWAY

GOOD MACHINE TOOL IN CHINA



COMPANY PROFILE

Guangdong JSWAY CNC machine tool co., Ltd is located in Zhongshan City, Guangdong-Hong Kong-Macao Greater Bay area the most active manufacturing industrial in China. Our factory has established 20 years and always focused on always focus on intelligent R & D, manufacture, sales and service the various CNC lathe and Swiss precision automatic lathe with a successful experience to serve the different kinds industries from China to the world.

Zhongshan JSWAY CNC machine tool co., Ltd is committed to becoming the first brand at CNC machine tool manufacturing in China, to meet the industry level of Germany or/and Japan international brands, inherit the spirit of manufacturing artisans, our product positioning is: import replacement and beyond upgrading, to provide the firms with more functions, higher precision, better quality and competitive price machine tool.

We setup a laboratory of engineering data center with the Shanghai Jiao Tong University together, using high-precision testing instruments like the laser interferometer, eddy current displacement tester, wireless rotating axis calibration device, self-developed high-precision digital temperature sensor and real-time compensation system for machinery. The machinery deviation source data mechanism model is built on the platform, through it's precision adaptive control system real-time tracking compensation during processing, so that our machining accuracy and stability...etc technical indicators reach the international advanced level of the industry.

Leading step by step, our CNC machine tool have been equipped with a standard thermal compensation system which lay a solid foundation for future winning in the field.

We keep on increasing the investment in high-precision processing equipment. The key parts are processed on those advanced equipment to avoid the man-made error to ensure the stability, consistency and accuracy for whole machinery.

We keep on learning the most advance manufacturing concepts and technology based on customer concerns and needs to develop the customization technical supporting and engineering plans to help customer as a value leader in the competitive market .

The guidance from the emerging market provides a great power for our developments to meet the requirements of high-class CNC machine tool in the 3C electronics, new energy vehicles, home appliances, medical, high-speed rail & ships, military, aerospace and other industries.

We have big amount sales and technical service centers in whole China to provide the nearby fast service and technical support, and winning a good reputation from customers !

Follow the industry development needs, our products can be seen everywhere in whole China. And our Overseas Marketing Department has expanded the business scope to different countries and regions UK, Russia, Europe and Southeast Asia...etc.

★ popular model ★

**motorized spindle Swiss lathe (gantry type)
D123/D203**



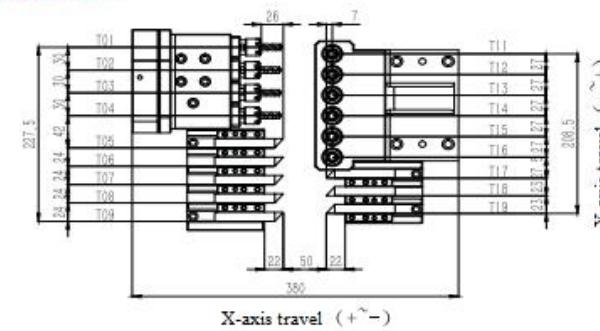
18PCS TOOLS

model		D203		D123	
item	system	FANUC	SYNTEC	FANUC	SYNTEC
processing capacity	moving speed spindle grip bar diameter spindle max. drill diameter spindle max. tap diameter side max. drill diameter side max. tap diameter	24m/min $\Phi 3\text{--}\Phi 20\text{mm}$ $\Phi 10\text{mm}$ M8 $\Phi 10\text{mm}$ M8	24m/min $\Phi 2\text{--}\Phi 12\text{mm}$ $\Phi 7\text{mm}$ M6 $\Phi 7\text{mm}$ M6		
motorized spindle	spindle power spindle max. speed	3.7KW 10000r/min	7.5KW 10000r/min	2.2KW 10000r/min	5.5KW 10000r/min
spindle table max. travel	spindle linkage movable guide bush travel without guide bush (optional)	125mm 290mm	130mm 290mm		
tool	cutter base amount side tool side power head max. speed side power head motor power spindle end tool	8pcsl2x12mm 4pcs ER16 power head 5500r/min 1KW	8pcsl2x12mm 4pcs ER16 power head 5500r/min 0.4KW	6pcs ER16 fixed tool holder 6pcs ER16 fixed tool holder	
machine dimension		1500x1000x1700mm		1500x1000x1700mm	
machine weight		1300kg		1300kg	

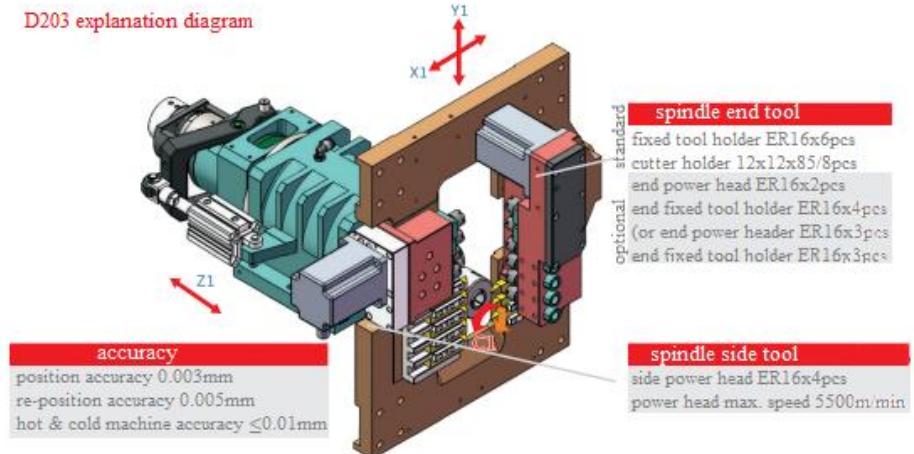
D203 equipped with 3 axes powerful function

- JSWAY high-power synchronous motorized spindle, FANUC 3.7KW/SYNTEC 7.5KW, fast takeoff and landing speed response.
- high efficiency, excellent performance.
- JSWAY power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- 3 axes powerful function, ultra-efficient processing mode.
- XVZ-axis motor high power 850W/750W large inertia servo motor.
- double screw nut with strong rigid cutting; bearings fixed mode keep high precision.
- screw guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- one direction power head S3, optional S5 power head, easy operation.

D203 spindle tool layout



D203 explanation diagram



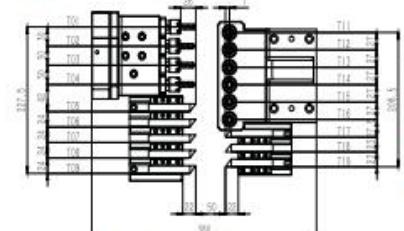
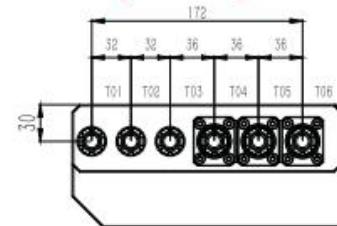
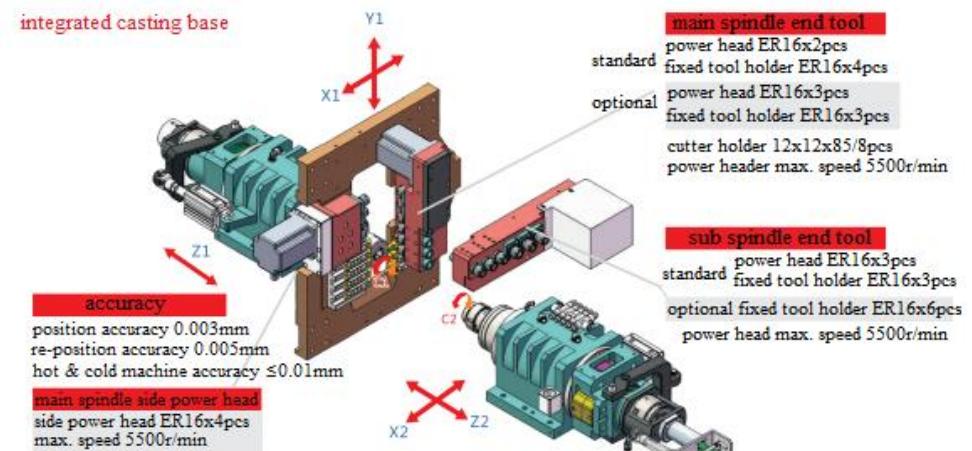
motorized spindle Swiss lathe (gantry type)D205 (optional thermal compensation function/
optional automatic chip breaking function)auxiliary spindle high rigidity
straight driving power head

24PCS TOOLS

model		D205	
item	system	FANUC	SYNTEC
processing capacity	rapid speed main/sub spindle grip bar diameter main/sub spindle max. drilling diameter main/sub spindle max. tapping diameter side max. drilling diameter side max. tapping diameter main/sub spindle power main/sub spindle max. speed	X-axis 24m/min, rest axes 30m/min Ø3-Ø20mm Ø10mm M8 Ø10mm M8 3.7KW 10000r/min	Ø3-Ø20mm Ø10mm M8 Ø10mm M8 7.5KW 10000r/min
spindle table max. travel	spindle linkage movable guide bush travel without guide bush (optional) cutter base amount main spindle side power tool power head max. speed main spindle end tool sub spindle end tool	125mm 290mm 8pcs 12x12mm 4pcs ER16 5500 r/min 2pcs ER16 power tool+4pcs ER16 fixed tool holder 3pcs ER16 power tool+3pcs ER16 fixed tool holder	
machine	dimension	2000x1100x1700mm	
machine	weight	2400kg	

D205 with 5 axes powerful function, can achieve dual channel simultaneous processing

- JSWAY independently developed high-power synchronous motorized spindle, FANUC 3.7KW/SYNTEC 7.5KW.
- same power for both main and auxiliary spindles, fast takeon and landing speed response, high efficiency, excellent performance.
- JSWAY independently developed power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- dual channels operation, main spindle direction machining and auxiliary spindle machining at the same time.
- 5 axes powerful function, super efficient processing mode.
- X Y Z axial motor high power 850W/750W large inertia servo motor.
- double screw nut with strong rigid cutting, bearings fixed mode keep high precision.
- screw guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- three directions have power head S3,S4,S5,easy operation.
machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

main spindle tool layout**sub spindle tool layout****integrated casting base**

★ full-function model ★

motorized spindle Swiss lathe (gantry type)

**D206 (optional thermal compensation function/
optional automatic chip breaking function)**



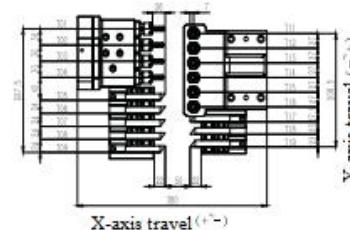
29PCS TOOLS

model		D206	
item	system	FANUC	SYNTEC
processing capacity	main/sub spindle grip bar diameter main/sub spindle max. drilling diameter main/sub spindle max. tapping diameter side max. drilling diameter side max. tapping diameter	X-axis 24m/min, rest axes 30m/min Φ3-Φ20mm Φ10mm M8 Φ10mm M8	10000r/min Φ3-Φ20mm Φ10mm M8 Φ10mm M8
motorized spindle	main/sub spindle power main/sub spindle max. speed	3.7KW 10000r/min	7.5KW
spindle table max. travel	spindle linkage movable guide bush travel without guide bush (optional)	125mm 290mm	
tool	cutter base amount main spindle side power tool power head max. speed main spindle end tool sub spindle end tool sub spindle side tool	8pcs 12x12mm 4pcs ER16 5500r/min 2pcs ER16 power head+4pcs ER16 fixed tool holder 4pcs ER16 power head+5pcs ER16 fixed tool holder 2pcs ER16 power tool	
machine dimension		2000x1100x1700mm	
machine weight		2600kg	

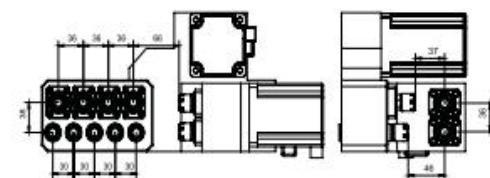
D206 with 6 axes powerful function, can achieve dual channel simultaneous processing

- JSWAY high-power synchronous motorized spindle, FANUC 3.7KW/SYNTEC 7.5KW, same power for both main and auxiliary spindles, fast takeoff and landing speed response, high efficiency, excellent performance.
- JSWAY power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- dual channels operation, main spindle direction machining and auxiliary spindle machining at the same time.
- 6 axes powerful function, super efficient processing mode.
- XYZ axial motor high power 850W/750W large inertia servo motor.
- double screw nut with strong rigid cutting; bearings fixed mode keep high precision.
- screw guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- three directions have power head S3,S4,S5;easy operation.
machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

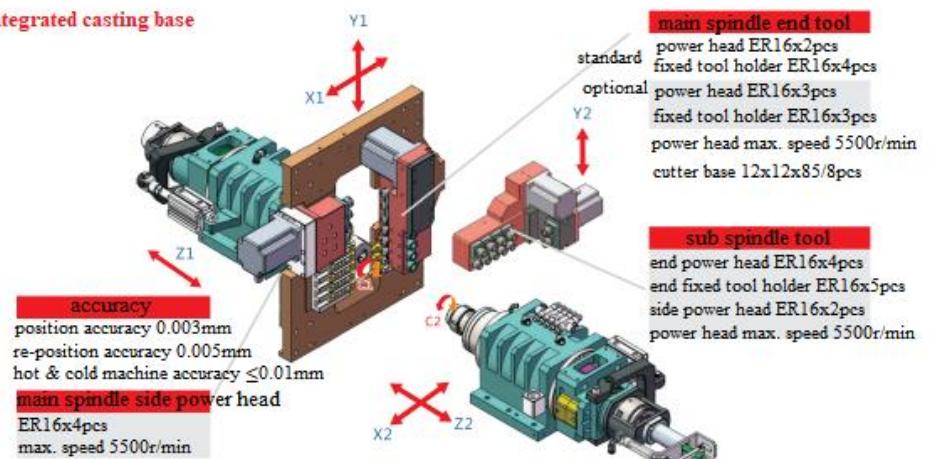
main spindle tool layout



sub spindle tool layout



integrated casting base



motorized spindle Swiss lathe (horizontal tool)

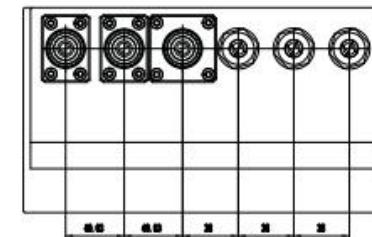
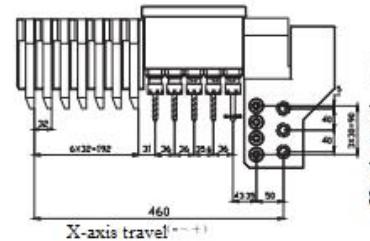
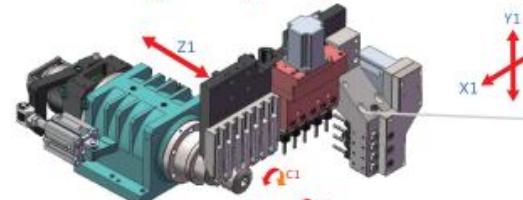
 D265 (optional thermal compensation function/
 optional automatic chip breaking function)

25PCS TOOLS

model		D265	
item	system rapid speed	FANUC	SYNTEC
processing capacity	main/sub spindle grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle max. drilling diameter sub spindle max. tapping diameter	Φ5~Φ26mm Φ10mm M8 Φ8mm M6	X-axis 24m/min, rest axes 30m/min Φ10mm M8
motorized spindle	side power head max. drilling diameter side power head max. tapping diameter	Φ10mm M8	
spindle table max. travel	main/sub spindle power main/sub spindle max. speed spline movable guide bush travel without guide bush (optional)	5.5KW 8000r/min 220mm 360mm	8.2KW
tool	cutter base amount main spindle side power head power head max. speed main spindle end tool sub spindle end tool	7pcs 16x16mm 5pcs ER20 5500 r/min 3pcs ER20 power head tool+4pcs ER16 fixed tool holder 3pcs ER20 power head tool+3pcs ER16 fixed tool holder	
machine	dimension	2700x1450x1800mm	
machine	weight	3500kg	

D265 with 5 axes powerful function, can achieve dual channels simultaneous processing

- JSWAY high-power synchronous motorized spindle, FANUC 5.5KW/SYNTETC 8.2KW, same power for both main and auxiliary spindles, fast takeoff and landing speed response, high efficiency, excellent performance.
- with motorized spindle structure, FANUC 5.5KW/SYNTETC 8.2K, large torque, spindle speed 8000r/min, high-speed cutting
- one time machining length 230mm long shaft; top horizontal cutter structure, rough machining turning without hanging slag.
- double nuts structure with large screw rod diameter 32mm/25mm, large guide rail 30mm/25mm to ensure large cutting capacity, screw bearing seat as special high-precision structure.
- each axis with big power servo motor 1300W, 850W force to ensure large cutting capacity.
- power head ER20, ER16 good milling rigidity, moving speed 30mm/min, high cutting speed, high efficiency.
- three directions have power head S3,S4,S5; easy operation.
- have 25 tools, optional with plug-in power head and cyclone milling head.
- machining body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.
- standard with high pressure, 40-70kg optional, machine weight around 4000kg.


motor frame & bearing seat integrated rigid base

main spindle tool
 cutter base 16x16x120/7pcs
 side power head S3 ER20x5pcs
 end power head S5 ER20x3pcs
 end fixed tool holder ER16x4pcs
 power head max.speed 5500r/min

accuracy

 position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy ≤0.01mm

sub spindle end tool

 power tool ER16x3pcs
 fixed tool holder ER16x3pcs
 power head max.speed 5500r/min

resin-sand intensive casting iron machine bed
 precision screw rod, linear guide rail fast moving
 speed X-axis 24m/min, rest axes 30m/min

main, sub, both spindles
 using high strength alloy
 grip bar diameter Φ5~Φ26mm
 one time feed length 220mm
 C-axis index ±0.015°
 max. speed 8000r/min

motorized spindle Swiss lathe (horizontal tool)

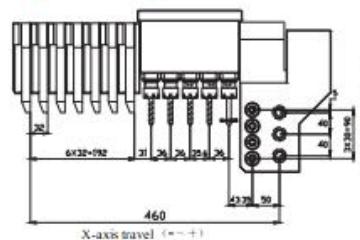
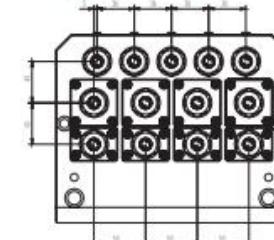
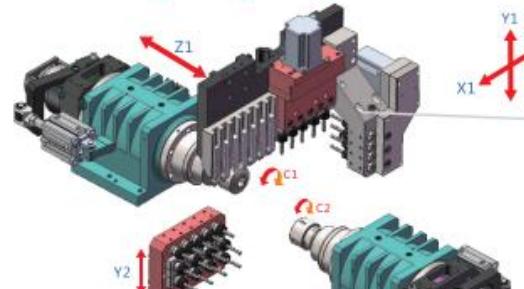
 D266 (optional thermal compensation function/
 optional automatic chip breaking function)

32PCS TOOLS

model	D266	
item	system	FANUC SYNTETC
processing capacity	rapid speed main/sub spindle grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle max. drilling diameter sub spindle max. tapping diameter	X-axis 24m/min, rest axes 30m/min $\Phi 5\text{--}\Phi 26\text{mm}$ $\Phi 10\text{mm}$ M8 $\Phi 8\text{mm}$ M6 $\Phi 10\text{mm}$ M8
motorized spindle	side power head max. drilling diameter side power head max. tapping diameter	5.5KW 8.2KW
spindle table max. travel	main/sub spindle power main/sub spindle max. speed spline movable guide bush travel without guide bush (optional)	8000r/min 220mm 360mm
tool	cutter base amount main spindle side power head tool power head max. speed main spindle end tool sub spindle end tool	7pcs 16x16mm 5pcs ER20 5500r/min 3pcs ER20 power tool+4pcs ER16 fixed tool holder 8pcs ER16 power tool+5pcs ER16 fixed tool holder
machine	dimension	2700x1450x1800mm
machine	weight	3700kg

D266 equipped with Y axis , can achieve dual spindles simultaneous processing

- JSWAY high-power synchronous motorized spindle, FANUC 5.5KW/SYNTETC 8.2KW, same power for both main and auxiliary spindles, fast takeoff and landing speed response, high efficiency, excellent performance.
- with electric spindle structure, FANUC 5.5KW/SYNTETC 8.2K, large torque, spindle speed 8000r/min, high-speed cutting.
- one time machining length 230mm long shaft, top horizontal cutter structure, rough machining turning without hanging slag.
- double nuts structure with large screw rod diameter 32mm/25mm, large guide rail 30mm/25mm to ensure large cutting capacity, screw bearing seat as special high-precision structure.
- each axis with large power servor motor 1300W, 850W force to ensure large cutting capacity.
- power head ER20,ER16 good milling rigidity; moving speed 30mm/min , high cutting speed, high efficiency.
- three directions have power head S3,S4,S5; easy operation.
- have 32 tools, optional with plug-in power head and cyclone milling head.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.
- standard with high pressure, 40-70kg optional, machine weight around 3700kg.

main spindle tool layout

sub spindle tool layout

motor frame & bearing seat integrated rigid machine base


main spindle tool
 cutter base 16x16x120/7pcs
 side power head S3 ER20x5pcs
 end power head S5 ER20 x3pcs
 end fixed tool holder ER16x4pcs
 power head max. speed 5500r/min

accuracy

position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy $\leq 0.01\text{mm}$

sub spindle tool

5pcs ER16 fixed tool holder
 8pcs ER16 power tool
 power head max. speed 5500r/min

resin-sand intensive casting iron machine bed
 precision screw rod, linear guide rail fast moving
 speed X-axis 24m/min, rest axes 30m/min

main, sub both spindles machining simultaneously
 grip bar diameter $\Phi 5\text{--}\Phi 26\text{mm}$
 one time feed length 220mm
 C-axis index $\pm 0.015^\circ$
 max. speed 8000r/min

motorized spindle Swiss lathe (gantry type)
 gantry type fast machining mode +
 230mm long axis capability
 optional B-axis function

MX266 (optional thermal compensation function/
 optional automatic chip breaking function)



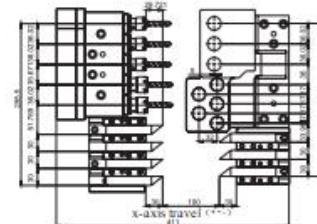
35PCS TOOLS

model		MX266	
item	system	FANUC	SYNTEC
processing capacity	rapid speed	X-axis 24m/min, rest axes 30m/min	X-axis 24m/min, rest axes 30m/min
motorized spindle	main spindle grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle grip bar diameter sub spindle max. drilling diameter sub spindle max. tapping diameter side power head max. drilling diameter side power head max. tapping diameter	Φ5~Φ26mm Φ10mm M8 Φ5~Φ26mm Φ10mm M8 Φ8mm M6	Φ5~Φ26mm Φ10mm M8 Φ5~Φ26mm Φ10mm M8 Φ8mm M6
spindle table max. travel	main/sub spindle power main/sub max. speed	5.5KW 8000r/min	8.2KW
tool	spline movable guide bush travel without guide bush (optional) cutter base amount main spindle side power tool main spindle end tool sub spindle end tool sub spindle side tool power head max. speed	230mm 360mm 7pcs 16x16mm 3pcs ER16+2pcs ER20 3pcs ER16 power tool+5pcs ER16 fixed tool holder 4pcs ER16 power tool+8pcs ER16 fixed tool holder 3pcs ER16 power tool 5500r/min	
machine dimension		2300x1890x1960mm	
machine weight		3500kg	

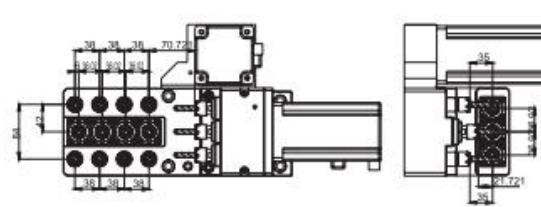
MX266 with 6 axes powerful function, can achieve dual channels simultaneous processing

- JSWAY high-power synchronous motorized spindle, FANUC 5.5KW/SYNTEC 8.2KW, same power for both main and auxiliary spindles, fast takeoff and landing speed response, high efficiency, excellent performance.
- one time machining length 230mm long shaft
- double nuts structure with large screw rod diameter 32mm/25mm, large guide rail 30mm/25mm to ensure large cutting capacity, screw bearing seat as special high-precision structure.
- each axis with large power servomotor 1300W, 850W force to ensure large cutting capacity.
- power head ER20, ER16 good milling rigidity; moving speed 30mm/min, high cutting speed, high efficiency.
- four directions have power head S3,S4,S5,S6; easy operation.
- have 35 tools, optional with plug-in power head and cyclone milling head.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.
- standard with high pressure, 40-70kg optional.

main spindle tool layout

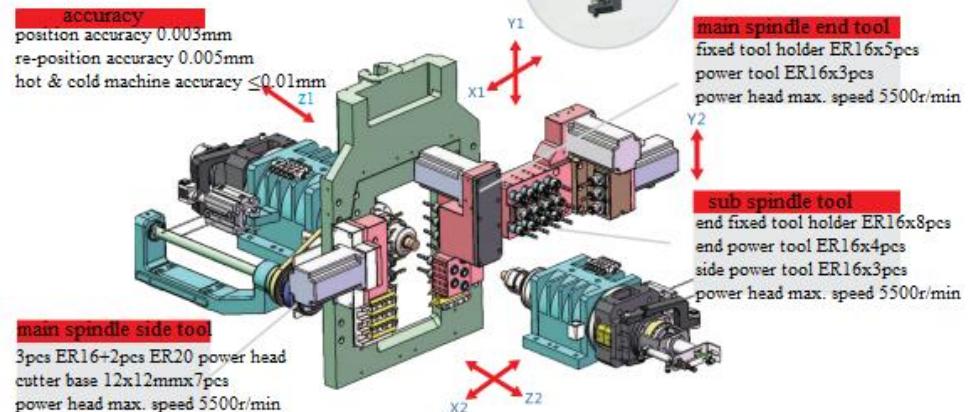


sub spindle tool layout



explanation diagram

accuracy
 position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy $\leq 0.01\text{mm}$



mechanical spindle Swiss lathe (horizontal tool)

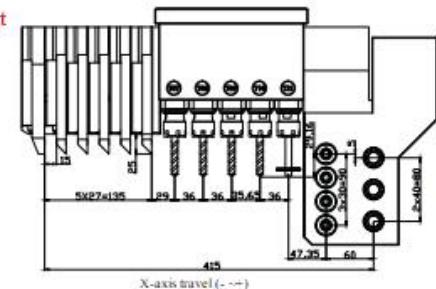
A253


18PCS TOOLS

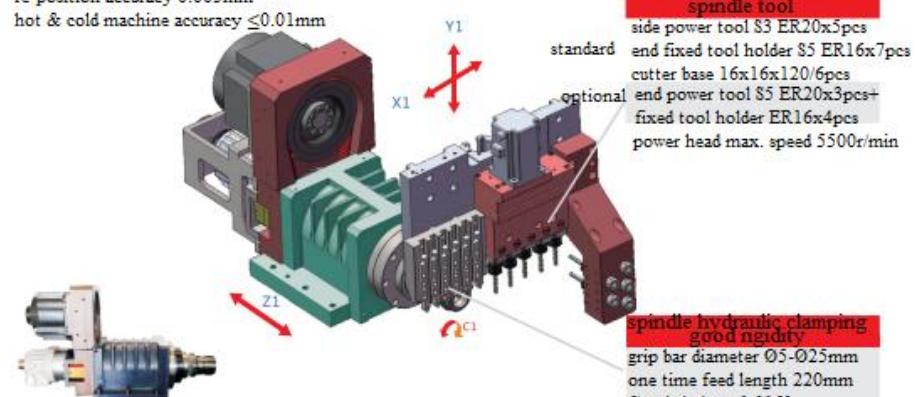
model		A253	
item	system	FANUC	SYNTEC
	rapid speed	X-axis 24m/min, rest axes 30m/min	
processing capacity	spindle grip bar diameter	Φ5~Φ25mm	
	spindle max. drilling diameter	Φ10mm	
	spindle max. tapping diameter	M8	
	side max. drilling diameter	Φ10mm	
	side max. tapping diameter	M8	
mechanical spindle	spindle motor power	3.7KW	5.5KW
	spindle max. speed	6000r/min	
spindle table max. travel	spline movable guide bush travel without guide bush (optional)	200mm	
	cutter base amount	290mm	
tool	spindle side power tool	6pcs 16x16mm	
	spindle side power head max. speed	5500r/min	
	spindle side power head motor power	1KW	
	spindle end tool	7pcs ER16 fixed tool holder	
	spindle end power head max. speed	5500r/min	
machine	dimension	1900x1300x1740mm	
machine	weight	2500kg	

A253 equipped with 3 axes powerful function

- with hydraulic clamping structure spindle (hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- JSWAY independently developed power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- X/Y/Z axial motor high power 850W/750W large inertia servo motor, ultra-efficient processing mode.
- double screw nut with strong rigid cutting; bearings fixed mode keep high precision.
- screw rod guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- one direction power head \$3, optional \$5 power head, easy operation.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

spindle tool layout

explanation diagram
accuracy

position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy ≤ 0.01 mm


spindle tool

standard side power tool S3 ER20x5pcs
 end fixed tool holder S5 ER16x7pcs
 cutter base 16x16x120/6pcs
 end power tool S5 ER20x3pcs+
 fixed tool holder ER16x4pcs
 power head max. speed 5500r/min

spindle hydraulic clamping good rigidity

grip bar diameter Ø5~Ø25mm
 one time feed length 220mm
 C-axis index $\pm 0.015^\circ$
 max. speed 6000r/min

mechanical spindle Swiss lathe (horizontal tool)

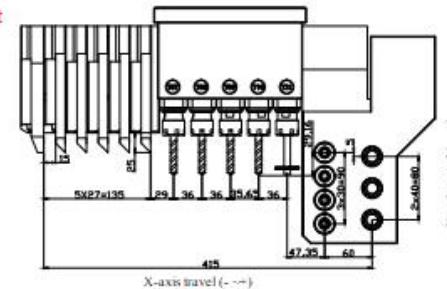
A363


18PCS TOOLS

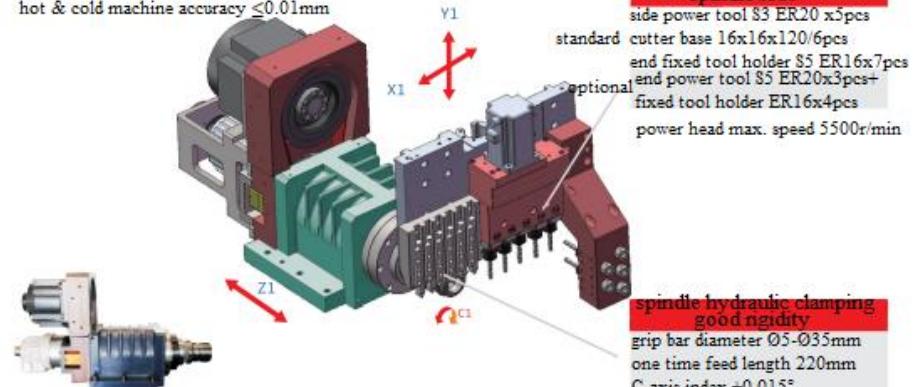
model		A363	
item	system	FANUC	SYNTEC
	rapid speed	X-axis 24m/min, rest axes 30m/min	
processing capacity	spindle grip bar diameter spindle max. drilling diameter spindle max. tapping diameter side max. drilling diameter side max. tapping diameter	Φ5~Φ35mm Φ10mm M8 Φ10mm M8	
mechanical spindle	spindle motor power spindle max. speed	3.7KW 5500r/min	5.5KW
spindle table max. travel	spline movable guide bush travel without guide bush (optional) cutter base amount	200mm 290mm 6pcs 16x16mm	
tool	spindle side power tool spindle side power head max. speed spindle side power head motor power spindle end tool spindle end power head max. speed	5pcs ER20 5500r/min 1KW 7pcs ER16 fixed tool holder 5500r/min	
machine dimension	weight	1900x1300x1740mm	2500kg

A363 equipped with 3 axes powerful function

- with hydraulic clamping structure spindle(hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- JSWAY independently developed power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- X/Y/Z axial motor high power 850W/750W large inertia servo motor, ultra-efficient processing mode.
- double screw nut with strong rigid cutting; bearings fixed mode keep high precision.
- screw rod guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- one direction power head S3, optional S5 power head, easy operation.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

spindle tool layout

explanation diagram

accuracy
 position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy ≤ 0.01 mm



spindle tool
 side power tool S3 ER20 x5pcs
 cutter base 16x16x120/6pcs
 end fixed tool holder S5 ER16x7pcs
 end power tool S5 ER20x3pcs+
 fixed tool holder ER16x4pcs
 power head max. speed 5500r/min

spindle hydraulic clamping good rigidity
 grip bar diameter Ø5~Ø35mm
 one time feed length 220mm
 C-axis index $\pm 0.015^\circ$
 max. speed 6000r/min

mechanical spindle Swiss lathe (horizontal tool)

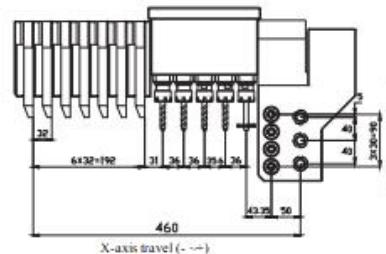
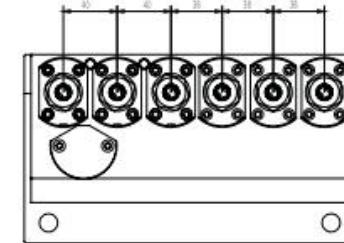
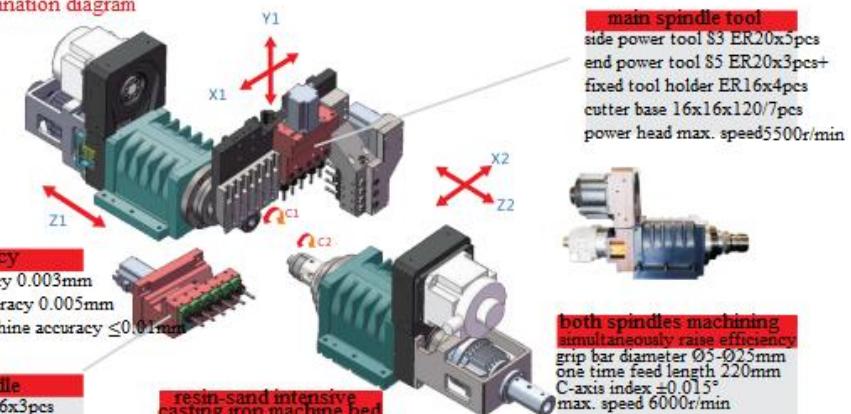
A255/A365(optional thermal compensation function/
optional automatic chip breaking function)



model		A255		A365	
item	system rapid speed	FANUC	SYNTEC	FANUC	SYNTEC
processing capacity	main/sub grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle max. drilling diameter sub spindle max. tapping diameter	Φ5~Φ25mm Φ10mm M8 Φ8mm M6	Φ7~Φ35mm Φ12mm M10 Φ8mm M6		
mechanical spindle	side power head max. drilling diameter side power head max. tapping diameter	Φ10mm M8	Φ10mm M8		
spindle table max. traval	main/sub spindle motor power main/sub spindle max. speed spline movable guide bush travel without guide bush travel (optional)	3.7KW 6000r/min 220mm 360mm	5.5KW 6000r/min 220mm 360mm	3.7KW 6000r/min 220mm 360mm	5.5KW 6000r/min 220mm 360mm
tool	cutter base amount main spindle side power tool power head max. speed main spindle end tool sub spindle end tool	7pcs 16x16mm 5pcs ER20 5500r/min 3pcs ER20 power tool+ 4pcs ER16 fixed tool holder 3pcs ER20 power tool+ 3pcs ER16 fixed tool holder	7pcs 16x16mm 5pcs ER20 5500r/min 3pcs ER20 power tool+ 3pcs ER16 fixed tool holder		
machine	dimension weight	2700x1450x1800mm 3500kg		2700x1450x1800mm 3600kg	

A255 with 5 axes powerful function, can achieve dual channels simultaneous processing

- with hydraulic clamping structure spindle(hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- mechanical spindle structure, large bearing, good rigidity, strong cutting ability.
- one time machining length 220mm long shaft.
- top horizontal cutter structure, rough machining turning without hanging slag.
- double nuts structure with large screw rod diameter 32mm/25mm,large guide rail 30mm/25mm to ensure large cutting capacity.
- each axis with large power servor motor 1300W, 850W force to ensure large cutting capacity.
- power head ER20, ER16 good milling rigidity, moving speed 30mm/min , high cutting speed, high efficiency.
- three directions power head S3, S4 optional , S5 optional , easy operation.
- have 25 tools, optional with plug-in power head and cyclone milling head.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

A255 main spindle tool layout**A255 sub spindle tool layout****A255 explanation diagram**

main spindle tool
side power tool S3 ER20x3pcs
end power tool S5 ER16x3pcs+
fixed tool holder ER16x4pcs
cutter base 16x16x120/7pcs
power head max. speed 5500r/min

both spindles machining simultaneously raise efficiency
grip bar diameter Φ5~Φ25mm
one time feed length 220mm
C-axis index ±0.015°
max. speed 6000r/min

mechanical spindle Swiss lathe (horizontal tool)

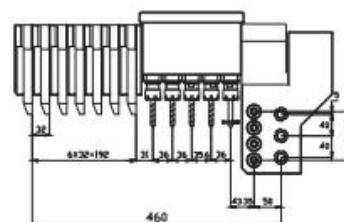
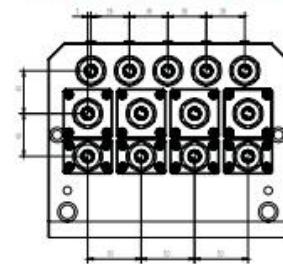
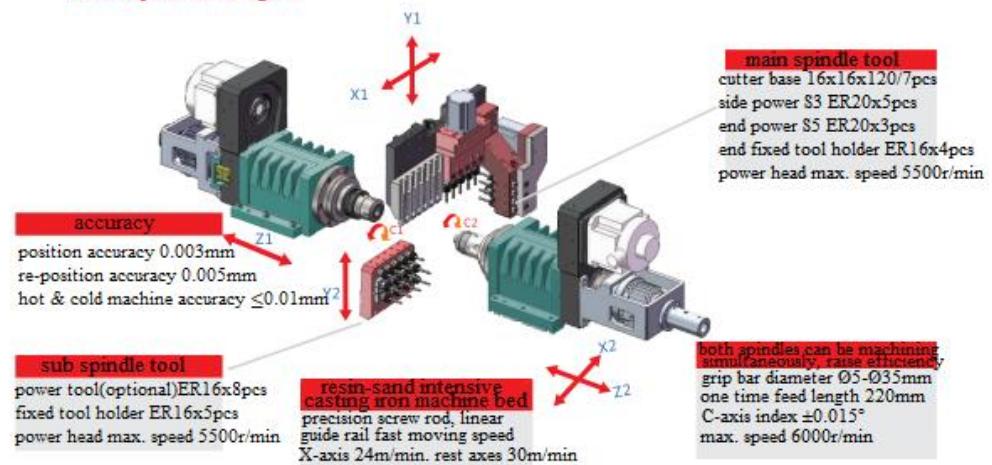
 A256/A366 (optional thermal compensation function/
optional automatic chip breaking function)

32PCS TOOLS

model	A256	A366			
item	system	FANUC	SYNTEC	FANUC	SYNTEC
processing capacity	rapid speed	X-axis 24m/min, rest axes 30m/min	X-axis 30m/min, rest axes 36m/min		
	main/sub spindle grip bar diameter	Φ5~Φ25mm		Φ7~Φ35mm	
	main spindle max. drilling diameter	Φ10mm		Φ12mm	
	main spindle max. tapping diameter	M8		M10	
	sub spindle max. drilling diameter	Φ8mm		Φ8mm	
	sub spindle max. tapping diameter	M6		M6	
mechanical spindle	side power head max. drilling diameter	Φ10mm		Φ10mm	
	side power head max. tapping diameter	M8		M8	
spindle table max. travel	main/sub spindle motor power	3.7KW	4.4KW	3.7KW	4.4KW
	main/sub spindle max. speed	6000r/min		6000r/min	
	spline movable guide bush travel without guide bush (optional)	220mm		220mm	
		360mm		360mm	
tool	cutter base amount	7pcs 16x16mm			
	main spindle side power tool	5pcs ER20			
	main spindle end tool	3pcs ER20 power tool+4pcs ER16 fixed tool holder			
	sub spindle end tool	8pcs ER16 power tool+5pcs ER16 fixed tool holder			
	power head max. speed	5500r/min			
machine dimension		2700x1450x1800mm		2700x1450x1800mm	
machine weight		3700kg		3800kg	

equipped with Y2 axis powerful function, can achieve dual spindles simultaneous processing

- with hydraulic clamping structure spindle(hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- mechanical spindle structure, large bearing, good rigidity, strong cutting ability.
- one time machining length 220mm long shaft.
- top horizontal cutter structure, rough machining turning without hanging slag.
- double nuts structure with large screw rod diameter 32mm/25mm,large guide rail 30mm/25mm to ensure large cutting capacity.screw bearing seat as special high-precision structure.
- each axis with large power servomotor 1300W, 850W force to ensure large cutting capacity.
- power head ER20,ER16 good milling rigidity; moving speed 30mm/min , high cutting speed, high efficiency.
- three directions power head S3,S4,S5, easy operation.
- have 32 tools, optional with plug-in power head and cyclone milling head.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.ensure tight mechanical structure and beautiful shape.
- machine standard with high pressure, 40-70kg optional.

A366 main spindle tool layout

A366 sub spindle tool layout

A366 explanation diagram


Note: The technical parameters of our products are for reference only, subject to change without prior notice. JSWAY/20

mechanical spindle Swiss lathe (horizontal tool)

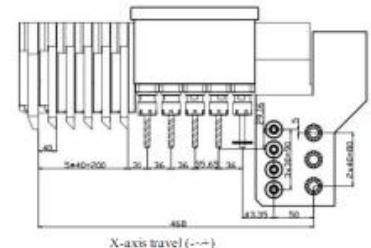
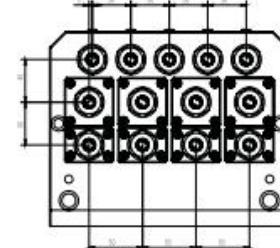
 A466 (optional thermal compensation function/
 optional automatic chip breaking function)

31PCS TOOLS

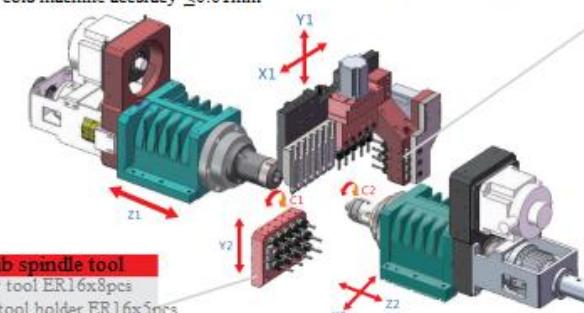
model		A466	
item	system	FANUC	SYNTEC
processing capacity	rapid speed main/sub spindle grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle max. drilling diameter sub spindle max. tapping diameter	X-axis 24m/min, rest axes 30m/min $\Phi 7\text{--}\Phi 45\text{mm}$ $\Phi 12\text{mm}$ M10 $\Phi 8\text{mm}$ M6 $\Phi 10\text{mm}$ M8	$\Phi 7\text{--}\Phi 45\text{mm}$ $\Phi 12\text{mm}$ M10 $\Phi 8\text{mm}$ M6 $\Phi 10\text{mm}$ M8
mechanical spindle	side power head max. drilling diameter side power head max. tapping diameter		
spindle table max. travel	main spindle motor power sub spindle motor power main/sub spindle max. speed spline movable guide bush travel without guide bush (optional)	5.5KW 3.7KW 6000r/min 220mm 360mm	4.4KW 4.4KW 6000r/min 220mm 360mm
tool	cutter base amount main spindle power tool main spindle end tool sub spindle end tool power head max. speed	1pc 20x20mm+5pcs 16x16mm 5pcs ER20 3pcs ER20 power tool+4pcs ER16 fixed tool holder 8pcs ER16 power tool+5pcs ER16 fixed tool holder 5500r/min	
machine dimension	2700x1450x1800mm		
machine weight	3800kg		

equipped with Y2 axis powerful function, can achieve dual spindles simultaneous processing

- with hydraulic clamping structure spindle(hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- mechanical spindle structure, large bearing, good rigidity, strong cutting ability.
- one time machining length 220mm long shaft.
- top horizontal cutter structure, rough machining turning without hanging slag.
- double nuts structure with large screw rod diameter 32mm/25mm,large guide rail 30mm/25mm to ensure large cutting capacity,screw bearing seat as special high-precision structure.
- each axis with large power servor motor 1300W, 850W force to ensure large cutting capacity.
- power head ER20,ER16 good milling rigidity; moving speed 30mm/min , high cutting speed, high efficiency.
- three directions power head S3,S4, S5, easy operation.
- have 31 tools, optional with plug-in power head and cyclone milling head.
- machine body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.
- machine standard with high pressure, 40-70kg optional.

main spindle tool layout

main spindle tool layout

explanation diagram
accuracy

 position accuracy 0.003mm
 re-position accuracy 0.005mm
 hot & cold machine accuracy $\leq 0.01\text{mm}$
resin-sand intensive casting iron machine bed

 precision screw rod, linear guide rail fast moving speed
 X-axis 24m/min, rest axes 30m/min

main spindle tool

 cutter base 20x20x120/1pc
 16x16x120/5pcs
 side power head S3 ER20x5pcs
 end power head S5 ER20X3pcs
 end fixed tool holder ER16x4pcs
 power head max. speed 5500r/min

 both spindles can be machining simultaneously raise efficiency
 grip bar diameter $\varnothing 7\text{--}\varnothing 45\text{mm}$
 one time feed length 220mm
 C-axis index $\pm 0.015^\circ$
 max. speed 6000r/min

mechanical spindle Swiss lathe (gantry type)

**gantry type fast machining mode +
230mm long axis capability,
optional B-axis function**

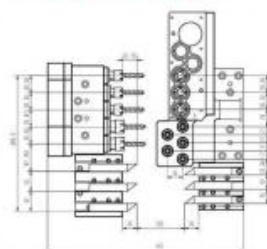
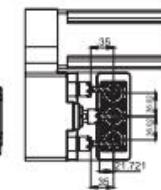
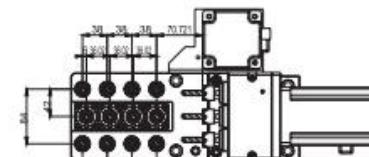
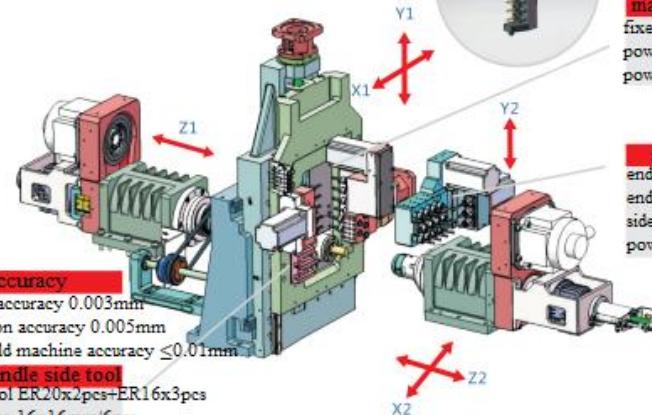
MX366 (optional thermal compensation function/
optional automatic chip breaking function)

**34PCS TOOLS**

model	MX366	
item	system	
processing capacity	main spindle grip bar diameter main spindle max. drilling diameter main spindle max. tapping diameter sub spindle grip bar diameter sub spindle max. drilling diameter sub spindle max. tapping diameter side power head max. drilling diameter side power head max. tapping diameter	X-axis 24m/min, rest axes 30m/min Φ7~Φ35mm Φ10mm M8 Φ5~Φ35mm Φ10mm M8 Φ8mm M6
mechanical spindle	main/sub spindle motor power main/sub spindle max. speed	3.7KW 6000r/min
spindle table max. travel	spline movable guide bush travel without guide bush (optional)	230mm 360mm
tool	cutter base amount main spindle side power tool main spindle end tool sub spindle end tool sub spindle side tool power head max. speed	6pcs 16x16mm 2pcs ER20+3pcs ER16 3pcs ER16 power head+5pcs ER16 fixed tool holder 4pcs ER16 power head+8pcs ER16 fixed tool holder 3pcs ER16 power head 5500r/min
machine	dimension	2300x1890x1950mm
machine	weight	3800kg

equipped with 6 axes powerful function, can achieve dual channels simultaneous processing

- with hydraulic clamping structure spindle(hydraulic rotating cylinder), prevents clamping failure to return material when hard drilling and large cutting amount.
- JSWAY independently developed power head, low noise, strong rigidity, high precision, representing the industry's high level, match to Japanese and European brands.
- smooth appearance, precision workmanship, rigorous structure, the industry high-end brand image.
- dual channels operation, main spindle direction machining and auxiliary spindle machining at the same time.
- 6 axes powerful function, super efficient processing mode.
- X/Y/Z axial motor high power 850W/750W large inertia servo motor.
- double screw nut with strong rigid cutting; bearings fixed mode keep high precision.
- screw guide rail 25mm, large lead pitch 10mm, fast speed, drag plate table moving speed 30m/min.
- four directions have power head S3,S4,S5,S6; easy operation; standard with high pressure, 40-70kg optional.
- machining body, motor frame, bearing seat, auxiliary spindle drag plate are all connected structure to ensure tight mechanical structure and beautiful shape.

main spindle tool layout**sub spindle tool layout****explanation diagram**

main spindle end tool
fixed tool holder ER16x5pcs
power head ER16x3pcs
power head max. speed 5500r/min

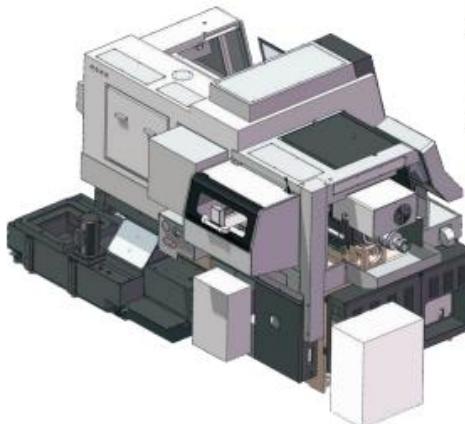
sub spindle tool
end power head ER16x4pcs
end fixed tool holder ER16x8pcs
side power head ER16x3pcs
power head max. speed 5500r/min

accuracy
position accuracy 0.003mm
re-position accuracy 0.005mm
hot & cold machine accuracy ≤0.01mm
main spindle side tool
power tool ER20x2pcs=ER16x3pcs
cutter base 16x16mm/6pcs
power head max.5500r/min

Note: The technical parameters of our products are for reference only, subject to change without prior notice. JSWAY/24

Swiss-type dual spindles turning & milling compound machine tool (robot single workpiece feeding and blanking functions)

D265T/D266T/A365T/A366T

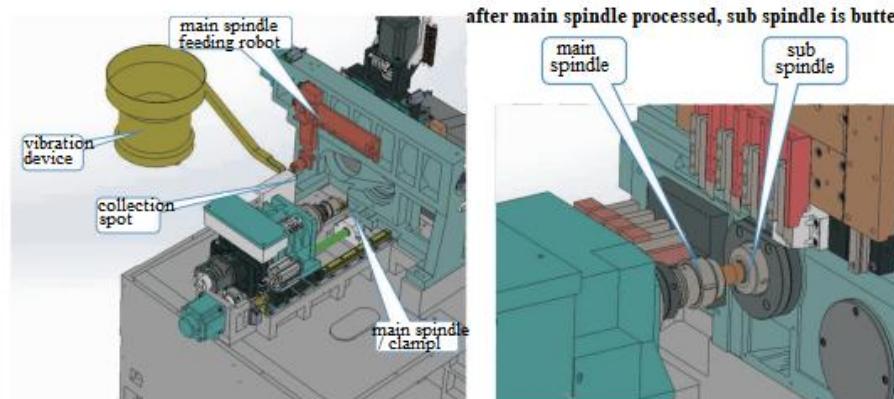


main features:

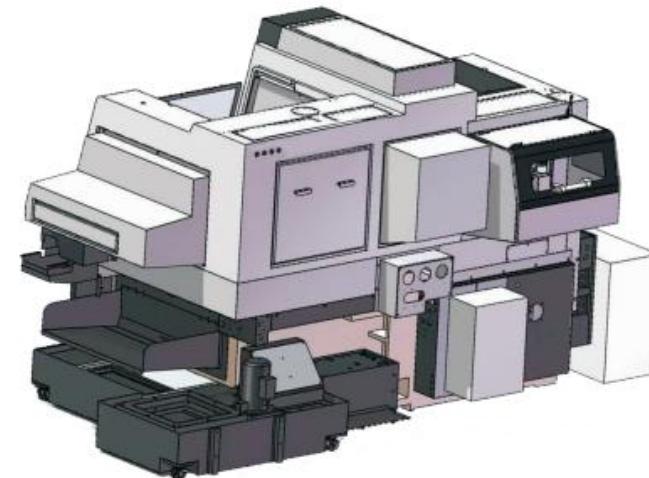
- Complete single workpiece processing on this Swiss-type lathe.
- Swiss-type dual spindle turning & milling machine tool is the most efficient dual spindles lathe.
- The first choice lathe for processing new energy parts, 3C components, home appliance components...etc.
- Swiss lathe model is used to replace dual spindles dual row tools lathe to complete one-time forming processing, adding automatic loading and unloading functions.
- Space requirement is smaller than the ordinary double spindles lathe, which that floor area is smaller. machine tool is the most efficient dual spindles lathe.
- JSWAY self-made precision electric spindle with Japan/German high-precision bearings, high speed, low noise and high rigidity. Under dynamic balance test (including single spindle, sub assembly and whole machine).

processing steps:

1. Material from vibration device to the collection spot and determines the direction.
2. Truss robot takes material (clamps the bar) and sends it to main spindle form clamping (forward pushing chuck).
3. Robot returns to the collection spot and machine tool starts processing.
4. After processing, the sub spindle is butted.
5. Main spindle returns and robot clamps (cycle).



automatic material arrangement function for both loading and unloading



technical parameter

processing range	0~50x50mm
main spindle power	7.5KW
sub spindle power	7.5KW
feed axis	Z1、X2、Z2
motor power	Y1
	Y1
cutting oil pump power	1.1KW
lubrication oil pump power	0.18KW
main spindle tool	4pcs 16x16 cutter base (optional tools)
sub spindle tool	4pcs 16x16 cutter base (optional tools)
system	220TB
spindle center height	950mm
total power	22kw
air pressure	0.5MPa
air volume	0.05m
oil tank capacity	120L
machine weight	3500kg
machine dimension (LxWxH)	2700x1450x1800mm

optional accessories

full automatic oil film feeder


processing sample gallery


JSWAY always adhere innovation and science, providing high precision, high stability multi function machine tool. We have owned more than 50 practical patents presently.

