

The RICKS logo is positioned in the top right corner of the blue-tinted machinery background. It features the word "RICKS" in a bold, sans-serif font, with the letter "R" in red and the remaining letters in white.

**PRECISION
CNC
MACHINERY
MANUFACTURER**

The RICKS logo is centered in the white section of the page. It consists of the word "RICKS" in a bold, sans-serif font, with the letter "R" in red and the remaining letters in blue.

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Manufacturer's specifications are accurate as of the date of publication and may be changed without prior notice to incorporate improvements resulting from ongoing research and development programs.

A large, vertical, light gray version of the RICKS logo is positioned in the center of the white section, serving as a background element.

COMPANY PROFILE

Ricks Precision Machinery Co., Ltd. is a subsidiary of Ruize Machinery which was established in 2007. It specializes in the production of cutter lathes, turret lathe, turning-milling compound machine, turret with tailstock lathes, power turret turn-milling compound machine, drilling and tapping centers, high-speed parts machining centers, and linear rail machines, high-rigidity mold machining centers, gantry machining centers, engraving and milling machines and customized special machine, integrating R&D, production and sales. It can provide customers with complete cutting and processing solutions for metal and insulating materials to meet the processing requirements from different industries.

Ricks Precision Machinery is located in Dalingshan Town, Dongguan City, Guangdong Province, covering an area of more than 10,000 square meters. It is an intelligent CNC equipment manufacturer integrating with casting, sheet metal, and processing mother machine. It cooperates with Japan's Mitsubishi, Japan's FANUC, Germany's Siemens, Taiwan's Syntec, Taiwan's PMI, and Taiwan's KENTURN, and has established close and deep cooperative relationships with them. We adhere to the user-first principle and focus on providing customers with stable, reliable and cost-effective machines, equipped with a strong technical team to provide professional assembly and pre-sales and after-sales services, which keeps us ahead of the domestic CNC industry, and makes our products highly recognized by customers at the same time.

The products developed by Ricks are widely used in new energy vehicles, motorcycles, communications, electronics, watches, hydraulic and pneumatic engineering, petroleum pipeline equipment, special motors, optical instruments, medical equipment, fishing gear, military aerospace, aviation, home appliances, smart homes, offices equipment, intelligent program control, drones, 4G/5G and other industries.



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PRODUCTION CENTER

We continue to introduce and absorb advanced foreign production technology and integrate it into our own product technology to achieve independent innovation capabilities, improve product competitiveness, and maintain a leading position in the market.



RKS-20H/30H/36H/46H/52H Cutter Lathe



MACHINE FEATURES

- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 30/45 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ Long stroke, achieving multi-functional processing such as turning, boring, drilling, tapping etc.;
- ◆ Bigger space for knives, larger rotary processing diameters to realize continuous automatic processing of most entire bars;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 20/30/46/52mm, as well as processing clamping large-diameter single-piece, with high-precision, high-efficiency, and multi-functional requirements, and widely used in new energy vehicles, motorcycles and other industries.

STANDARD ACCESSORIES

1 pc user manual, 8 pcs row knife holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut

OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator optional



MACHINE PARAMETERS

Item	Unit	RKS-20H	RKS-30H	RKS-36H	RKS-46H	RKS-52H	
Processing Capacity	Max rotation diameter of bed	mm	Φ240	Φ100	Φ360	Φ480	Φ480
	Max rotation diameter of bed of slide	mm	Φ110	Φ110	Φ100	Φ140	Φ140
	Max cutting length	mm	100	100	200	400	400
	X axis travel	mm	520	500	720/800	900	900
	Z axis travel	mm	220	180	250	450	450
Spindle	Spindle nose		Spring collet	Spring collet	A2-4	A2-5	A2-6
	Spindle through-hole diameter	mm	Φ24	Φ35	Φ45	Φ56	Φ66
	Max bar diameter	mm	Φ20	Φ25	Φ35	Φ45	Φ52
	Max rotation speed	r/min	6000	6000	6000	6000	4500
	Spindle motor power	kw	3.7/5.5	3.7/5.5	5.5	7.5	7.5/11
	Spindle drive power	kw	3.7/5.5	3.7/5.5	5.5	7.5	7.5/11
	Chuck diameter/size	inch	N/A	N/A	5"	6"	6"
Feed Axis	X/Z axis repeat positioning accuracy	mm	0.003/0.003	0.003/0.003	0.002/0.002	0.002/0.002	0.002/0.002
	X/Z axis positioning accuracy	mm	0.005/0.005	0.005/0.005	0.003/0.003	0.003/0.003	0.003/0.003
	X/Z axis fast-moving speed	m/min	20	20	24	24	24
	X/Z axis motor power	kw	1.0	1.0	1.1	1.7	2.4
	X/Z axis motor power	kw	1.0	1.0	1.1	1.7	2.4
Cooling Lubricant System	Cooling pump motor power	kw	0.13	0.13	0.4/0.75	0.4/0.75	0.4/0.75
	Tank capacity	L	70L	70L	70L	70L	70L
Others	Dimension (L*W*H)	mm	1200*900*1500	1300*1000*1500	1920*1512*1660	2230*1700*1825	2230*1700*1825
	Total Power	kva	6	6	9	11	15
	Weight	kg	1100	1100	2600	2900	3000

RKS-36C/46C/52C

Cutter Lathe With Power Head



MACHINE FEATURES

- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 45 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ Power head, achieving multi-functional processing such as turning, boring, drilling, tapping, end face off-hole drilling, side milling, drilling, etc.;
- ◆ Bigger space for knives, larger rotary processing diameters to realize continuous automatic processing of most entire bars;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 36/46/52mm, as well as processing clamping large-diameter single-piece, with high-precision, high-efficiency, and multi-functional requirements and widely used in new energy vehicles, motorcycles and other industries.

STANDARD ACCESSORIES

1 pc user manual, 8 pcs row knife holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut

OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, power head optional



MACHINE PARAMETERS

Item	Unit	RKS-36C	RKS-46C	RKS-52C	
Processing Capacity	Max rotation diameter of bed	mm	Φ360	Φ480	Φ480
	Max turning diameter of slide	mm	Φ100	Φ140	Φ140
	Max cutting length	mm	200	400	400
	X axis travel	mm	720/80	900	900
	Z axis travel	mm	250	450	450
Spindle	Spindle nose		A2-4	A2-5	A2-6
	Spindle through-hole diameter	mm	Φ45	Φ56	Φ66
	Max bar diameter	mm	Φ35	Φ45	Φ52
	Max rotation speed	r/min	6000	6000	4500
	Spindle motor power	kw	5.5	7.5	7.5/11
	Spindle drive power	kw	5.5	7.5	7.5/11
	Chuck diameter/size	inch	5 "	6"	6 "
Feed Axis	X/Z axis repeat positioning accuracy	mm	0.002/0.002	0.002/0.002	0.002/0.002
	X/Z axis positioning accuracy	mm	0.003/0.003	0.003/0.003	0.003/0.003
	X/Z axis fast-moving speed	m/min	24/24	24/24	24/24
	X/Z axis motor power	kw	1.1/1.7	1.7/2.4	2.4
Power Head	Max. processing length of power head	mm	200	400	400
	Max. speed of power head	r/min	4000	4000/5000	4000/5000
	Power head motor power	kw	1.1/1.7	1.7/2.3	1.7/2.3
	Power head drive power	kw	1.1/1.7	1.7/2.3	1.7/2.3
Cooling Lubricant System	Cooling pump motor power	kw	0.4/0.75	0.4/0.75	0.4/0.75
	Tank capacity	L	70L	70L	70L
Others	Dimension (L*W*H)	mm	1920*1512*1660	2230*1700*1825	2230*1700*1825
	Total Power	kva	10	12	17
	Weight	kg	2600	2950	3050

RKS-46D/52D

Turret Lathe



MACHINE FEATURES

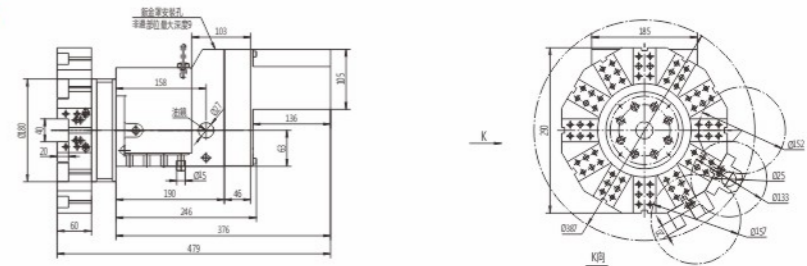
- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 45 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ 12-station servo turret, more knives positions, achieving multi-functional processing such as turning, boring, drilling, tapping, less processing interference;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous heavy parts within a diameter of 46/52mm, with high-precision, high-efficiency, and multi-functional requirements, and widely used in motorcycles, optical instruments, medical equipment, oil pipelines, special motors, hydraulic and pneumatic engineering and other industries.

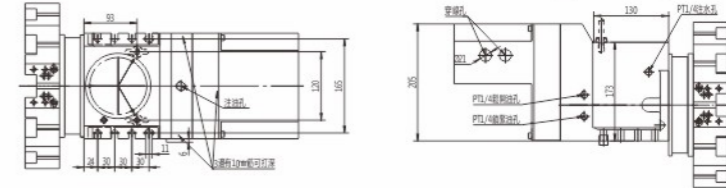
STANDARD ACCESSORIES

1 pc user manual, 5 pcs turret tool holders, 4 pcs row knife holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut



OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, turret optional



MACHINE PARAMETERS

Item		Unit	RKS-46D	RKS-52D
Processing Capacity	Max rotation diameter	mm	Φ420	Φ420
	Max turning diameter	mm	Φ100	Φ100
	Max cutting length	mm	230	230
	X axis travel	mm	280	280
	Z axis travel	mm	300	300
Spindle	Spindle nose		A2-5	A2-6
	Spindle through-hole diameter	mm	Φ56	Φ66
	Max bar diameter	mm	Φ45	Φ52
	Max rotation speed	r/min	6000	4500
	Spindle motor power	kw	7.5	11
	Spindle drive power	kw	7.5	11
Feed Axis	Chuck diameter/size	inch	6"	8"
	X axis positioning accuracy	mm	0.005	0.005
	Z axis positioning accuracy	mm	0.005	0.005
	X axis repeat positioning accuracy	mm	0.002	0.002
	Z axis repeat of positioning accuracy	mm	0.002	0.002
	X/Z axis fast-moving speed	m/min	24/26	24/26
Turret	X/Z axis motor power	kw	1.7	2.4
	Specification		12 Station	12 Station
	Tool changing speed	s	0.2	0.2
	Turret motor power	kw	1.0	1.0
Cooling Lubricant System	Turret drive power	kw	1.0	1.0
	Cooling pump motor power	kw	0.75	0.75
Others	Tank capacity	L	70L	70L
	Dimension (L*W*H)	mm	2230*1950*2150	2230*1950*2150
	Total Power	kva	13	16
	Weight	kg	2800	2900

RKS-52DW

Turret Lathe With Tailstock



MACHINE FEATURES

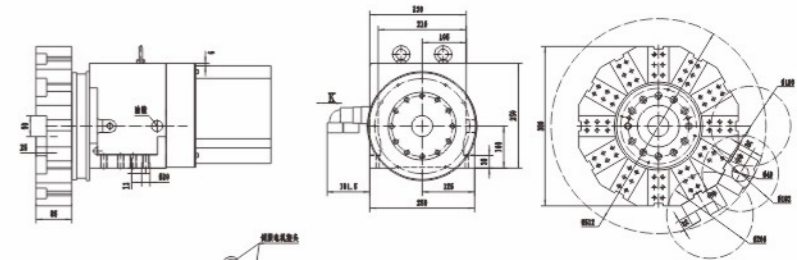
- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 30 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ 12-station servo turret and programmable hydraulic tailstock, stability, effectiveness and less interference during cutting heavy and long parts with quick tool changing speed;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 52mm, as well as processing clamping long single-piece, with high-precision, high-efficiency, and multi-functional requirements and widely used in motorcycles, optical instruments, medical equipment, oil pipelines, special motors, hydraulic and pneumatic engineering and other industries.

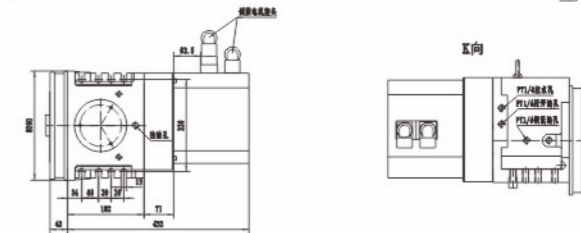
STANDARD ACCESSORIES

1 pc user manual, 5 pcs turret tool holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut, 1pc timble



OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, turret optional



MACHINE PARAMETERS

	Item	Unit	RKS-52DW
Processing Capacity	Max rotation diameter	mm	Φ500
	Max turning diameter	mm	Φ210
	Max cutting length	mm	500
	X axis travel	mm	230
	Z axis travel	mm	400
Spindle	Spindle nose		A2-6
	Spindle through-hole diameter	mm	Φ66
	Max bar diameter	mm	Φ52
	Max rotation speed	r/min	6000
	Spindle motor power	kw	7.5/11
	Spindle drive power	kw	7.5/11
Feed Axis	Chuck diameter/size	inch	8"
	X axis positioning accuracy	mm	0.005
	Z axis positioning accuracy	mm	0.005
	X axis repeatability of positioning accuracy	mm	0.002
	Z axis repeatability of positioning accuracy	mm	0.002
	X/Z axis fast-moving speed	m/min	24
Turret	X/Z axis motor power	kw	2.4
	Specification		12 station
	Tool changing speed	s	0.2
	Turret motor power	kw	1.0
Hydraulic Tailstock	Turret drive power	kw	1.0
	Tailstock body travel	mm	450
	Tailstock sleeve travel	mm	80
	Tailstock motor power	kw	N/A
Cooling Lubricant System	Tailstock drive power	kw	N/A
	Cooling pump motor power	kw	0.75
	Tank capacity	L	80L
Others	Dimension (L*W*H)	mm	2460*1880*1850
	Total Power	kva	17
	Weight	kg	4100

RKS-46Y/52Y

Turning-Milling Compound Machine



MACHINE FEATURES

- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 30 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ 12-station servo turret and 4-end and 4-side milling power head, processing complex parts in one time by turned, milled, drilled and tapped in one clamping on end and side surface;
- ◆ Bigger space for knives, larger rotary processing diameters to realize continuous automatic processing of most entire bars;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 46/52mm, which requires turning and milling integrated, as well as processing clamping large-diameter single-piece, with high-precision, high-efficiency, and multi-functional requirements, and widely used in new energy vehicles, motorcycles, optical instruments, medical equipment, hydraulic and pneumatic engineering and other industries.

STANDARD ACCESSORIES

1 pc user manual, 5 pcs turret tool holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut

OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, power head, turret optional

MACHINE PARAMETERS

Item	Unit	RKS-46Y	RKS-52Y	
Processing Capacity	Max rotation diameter	mm	Φ500	Φ500
	Max turning diameter	mm	Φ140	Φ140
	Max cutting length	mm	400	400
	X axis travel	mm	900	900
	Y axis travel	mm	230	230
	Z axis travel	mm	450	450
Spindle	Spindle nose		A2-5	A2-6
	Spindle through-hole diameter	mm	Φ56	Φ66
	Max bar diameter	mm	Φ45	Φ52
	Max rotation speed	r/min	6000	4500
	Spindle motor power	kw	7.5	7.5/11
	Spindle drive power	kw	7.5	7.5/11
	Chuck diameter/size	inch	6 "	8"
Feed Axis	X axis positioning accuracy	mm	0.005	0.005
	Y axis positioning accuracy	mm	0.005	0.005
	Z axis positioning accuracy	mm	0.005	0.005
	X axis repeat positioning accuracy	mm	0.002	0.002
	Y axis repeat positioning accuracy	mm	0.002	0.002
	Z axis repeat positioning accuracy	mm	0.002	0.002
	X/Z/Y axis fast-moving speed	m/min	30/30/18	30/30/18
	X/Z/Y axis motor power	kw	2.4	2.4
Power Head	Number of forward milling axes	pcs	4	4
	Number of side milling axes	pcs	4	4
	Max. processing length of power head	mm	400	400
	Max. speed of power head	r/min	4000	4000
	Power head motor power	kw	2.3	2.3
	Power head drive power	kw	2.3	2.3
Turret	Specification		12 station	12 station
	Tool changing speed	s	0.2	0.2
	Turret motor power	kw	1.0	1.0
	Turret drive power	kw	1.0	1.0
Cooling Lubricant System	Cooling pump motor power	kw	0.75	0.75
	Tank capacity	L	70L	70L
Others	Dimension (L*W*H)	mm	2050*1935*2110	2050*1935*2110
	Total Power	kva	19	19
	Weight	kg	3400	3500

RKS-46DY/52DY

Turning-Milling Compound Machine With Power Turret



MACHINE FEATURES

- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 35 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ 12/15 station servo turret, higher rigidity to process heavy parts in one time by turned, milled, drilled and tapped in one clamping on end and side surface;
- ◆ More position for knives, larger rotary processing diameters to realize continuous automatic processing of most entire bars;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 46/52mm, which requires turning and milling integrated, as well as processing clamping large-diameter single-piece, with high-precision, high-efficiency, and multi-functional requirements and widely used in new energy vehicles, motorcycles, drones, optical instruments, medical equipment, oil pipelines, hydraulic and pneumatic engineering and other industries.

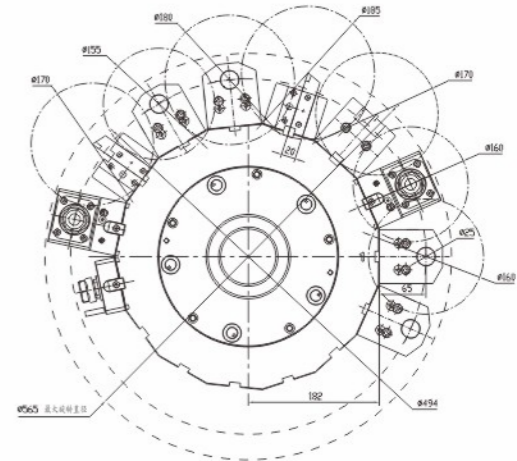


STANDARD ACCESSORIES

1 pc user manual, 4 pcs power turret tool holders, 8 pcs row knife holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut

OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, power turret optional



MACHINE PARAMETERS

Item		Unit	RKS-46DY	RKS-52DY
Processing Capacity	Max rotation diameter	mm	Φ420	Φ420
	Max turning diameter	mm	Φ100	Φ100
	Max cutting length	mm	230	230
	X axis travel	mm	220	220
	Y axis travel	mm	70	70
	Z axis travel	mm	300	300
Spindle	Spindle nose		A2-5	A2-6
	Spindle through-hole diameter	mm	Φ56	Φ66
	Max bar diameter	mm	Φ45	Φ52
	Max rotation speed	r/min	6000	4500
	Spindle motor power	kw	7.5	11
	Spindle drive power	kw	7.5	11
Feed Axis	Chuck diameter/size	inch	6"	8"
	X axis positioning accuracy	mm	0.005	0.005
	Y axis positioning accuracy	mm	0.005	0.005
	Z axis positioning accuracy	mm	0.005	0.005
	X axis repeat positioning accuracy	mm	0.002	0.002
	Y axis repeat positioning accuracy	mm	0.002	0.002
	Z axis repeat positioning accuracy	mm	0.002	0.002
	X/Y/Z axis fast-moving speed	m/min	24	24
Power Head	X/Y/Z axis motor power	kw	1.7	2.4
	Number of forward milling axes	pcs	2	2
	Number of side milling axes	pcs	2	2
	Max. processing length of power head	mm	230	230
	Max. speed of power head	r/min	5000	5000
	Power head motor power	kw	2.3	2.3
Power Turret	Power head drive power	kw	2.3	2.3
	Specification		15 station	15 station
Cooling Lubricant System	Tool changing speed	s	0.1	0.1
	Turret motor power	kw	1.0	1.0
	Turret drive power	kw	1.0	1.0
Others	Cooling pump motor power	kw	0.75	0.75
	Tank capacity	L	100L	100L
Others	Dimension (L*W*H)	mm	2200*1400*1830	2200*1400*1830
	Total Power	kva	17	19
	Weight	kg	3200	3300

RKS-46DWY/52DWY

Power Turret Turn-milling Compound Machine



MACHINE FEATURES

- ◆ One piece cast mold, large shocking proof damping and less deformation;
- ◆ 45 degree slant bed design, easy to get on and off workpieces, convenient to remove chip, assured of processing accuracy and smoothness;
- ◆ 12/15 station servo power turret, more positions for knives and fast tool changing;
- ◆ Hydraulic tailstock, higher rigidity and stability during processing heavy and big parts;
- ◆ Simple operation interface and programming system, easy to operate, and production efficiency highly improved;

APPLICATION

The machine is suitable for processing batch continuous parts within a diameter of 46/52mm, which requires turning and milling integrated, as well as processing clamping large-diameter single-piece, with high-precision, high-efficiency, and multi-functional requirements, and widely used in new energy vehicles, optical instruments, medical equipment, oil pipelines, special motors, hydraulic and pneumatic engineering and other industries.

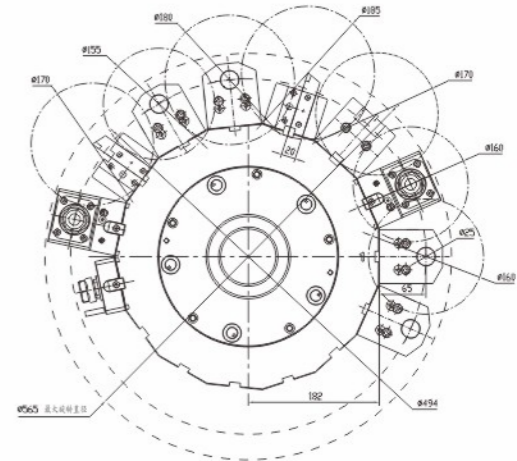


STANDARD ACCESSORIES

1 pc user manual, 4 pcs power turret tool holders, 8 pcs row knife holders, 1 pc foot switches, 1 set hex wrench, 1 pc collect, 1 pc stop nut, 1 pc timple

OPTIONAL ACCESSORIES

Chuck, feeder, chip conveyor, manipulator, power turret, power head optional



MACHINE PARAMETERS

Item	Unit	RKS-46DWY	RKS-52DWY	
Processing Capacity	Max rotation diameter	mm	Φ400	Φ500
	Max turning diameter	mm	Φ170	Φ210
	Max cutting length	mm	350	380
	X axis travel	mm	230	230
	Y axis travel	mm	70	100
	Z axis travel	mm	35	500
Spindle	Spindle nose		A2-5	A2-6
	Spindle through-hole diameter	mm	Φ56	Φ66
	Max bar diameter	mm	Φ45	Φ52
	Max rotation speed	r/min	6000	4500
	Spindle motor power	kw	7.5	11
	Spindle drive power	kw	7.5	11
	Chuck diameter/size	inch	6"	8"
Feed Axis	X axis positioning accuracy	mm	0.005	0.005
	Y axis positioning accuracy	mm	0.005	0.005
	Z axis positioning accuracy	mm	0.005	0.005
	X axis repeat positioning accuracy	mm	0.002	0.002
	Y axis repeat positioning accuracy	mm	0.002	0.002
	Z axis repeat positioning accuracy	mm	0.002	0.002
	X/Y/Z axis fast-moving speed	m/min	24	24
	X/Y/Z axis motor power	kw	2.4	2.4
Power Head	Number of forward milling axes	pcs	4	4
	Number of side milling axes	pcs	4	4
	Max. processing length of power head	mm	350	380
	Max. speed of power head	r/min	4000	4000
	Power head motor power	kw	2.3	2.3
Power head drive power	kw	2.3	2.3	
Power Turret	Specification		15 station	15 station
	Tool changing speed	s	0.2	0.2
	Turret motor power	kw	1.0	1.0
	Turret drive power	kw	1.0	1.0
Hydraulic Tailstock	Tailstock body travel	mm	300	450
	Tailstock sleeve travel	mm	80	80
	Tailstock motor power	kw	N/A	N/A
	Tailstock drive power	kw	N/A	N/A
Cooling Lubricant System	Cooling pump motor power	kw	0.75	0.75
	Tank capacity	L	130	100
Others	Dimension (L*W*H)	mm	2230*1600*1750	2460*1880*1850
	Total Power	kva	20	24
	Weight	kg	3600	4200

RKS-T600/T650

High-speed Drilling and Tapping Center Series



MACHINE FEATURES

- ◆ The super large column and super large solid six-point support structure span base, stable, no deformation, no shocking;
- ◆ High-function AC spindle servo motor and humanized conversational interface for easy operation.
- ◆ The direct connection between the motor and the spindle, less backlash, torque transmission more stable, nice processed surface, higher efficiency of high-rigidity tapping while avoiding temperature rise and noise;
- ◆ The high-speed spindle motor directly drives the spindle to achieve high-speed and high-precision processing, low inertia spindle design, high stability;
- ◆ The clamp arm tool changer, tools changing quickly and accurately, with a tool change time of 1.4 seconds, suitable for drilling holes with smaller diameters;
- ◆ A large inclined chip removal angle, quickly cleans the chips and faster return speed of the cutting fluid;
- ◆ Powerful electromechanical integration application technology, sensitive response speed of the transmission chain, eliminates inaction and non-cutting time during processing to improve production efficiency.

APPLICATION

It is mainly used for processing small parts in general industry, auto parts, medical equipment and other industries.

STANDARD ACCESSORIES

4 sets tool handles and rivet, 1 pc knife lock holder, 1 set mouth&airsoft&memory card, 1 set hexagon socket

MACHINE PARAMETERS

Item	Unit	RKS-T600	RKS-T650	RKS-T750	RKS-T800	
Travel	X axis travel	mm	600	650	750	800
	Y axis travel	mm	400	450	450	500
	Z axis travel	mm	360	400	400	420
	Distance from spindle end face to milling table	mm	150-510	130-530	130-530	130-530
	Distance from spindle center to column	mm	523	533	533	546
Milling Table	Table size	mm	700×420	750×460	850×460	1000×500
	T-slot size/amount /distance	mm/pcs/mm	14×2×100	14×3×125	14×3×125	18×5×102
	Max load on table	kg	350	350	350	500
Spindle	Spindle taper		BT30	BT30	BT30	BT30
	Max rotation speed	rpm	20000	20000	20000	20000
Tool Changer	Tool type	Type	Clamp type	Clamp type	Clamp type	Clamp type
	Tool quantity	pcs	21	21	21	21
	Max. tool diameter	mm	16/21	16/21	16/21	16/21
	Max. tool diameter (tools slots beside not occupied)	mm	60-100	60-100	60-100	60-100
	Max. tool length	mm	80-140	80-140	80-140	80-140
	Max. tool weight	mm	200-250	200-250	200-250	200-250
	Tool change time T-T	s	1.2	1.2	1.2	1.2
Speed	Fast moving speed (X/Y/Z)	m/min	48/48/48	48/48/48	48/48/48	48/48/48
	Cutting speed (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10
Accuracy	Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008
	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005
Others	Air source	L/min	280L/min	280L/min	280L/min	280L/min
	Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar
	Total power	kva	10	10	10	25
	Dimension (L*W*H)	mm	2100×1800×2350	2030×2428×2433	2030×2428×2433	2300×2400×2700
	Weight	kg	3500	3500	3800	4200

RKS-650S/650H/850

Three-line High Precision Machining Center Series



MACHINE FEATURES

- ◆ A rear chip discharge structure, easy to clean hair chips and not easy to leak oil;
- ◆ 3D concave tool conversion in only 1.8 seconds to accommodate 24 tools, adapt to various processing needs, convenient for tool management;
- ◆ Counterweight-free Z-axis design, and high-power brake servo motor, higher transmission, excellent cutting rigidity, better machining accuracy and longer spindle lifespan;
- ◆ Fixed column type, cross slide structure, extra-large stable base and high-rigidity large-span herringbone columns, lesser deformation during high-speed cutting;
- ◆ High-speed and high-precision spindle unit, front end with a labyrinth design, equipped with an air curtain protection function and a circulating cooling device, more stable temperature, less thermal deformation, and higher accuracy.
- ◆ The three-axis guide rail with high-rigidity roller linear rail bearing, lower friction and less noise.

APPLICATION

It is suitable for small and medium-sized batch processing of various types of complex parts such as small and medium-sized boxes, plates, valves, shells, molds, etc. and widely used in precision parts, 5G products, hardware, auto parts, and medical equipment industries.

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft&memory card, 1 set hexagon socket

MACHINE PARAMETERS

Item	Unit	RKS-650S	RKS-650H	RKS-850	RKS-855	RKS-966	RKS-1165	RKS-1380
X axis travel	mm	650	650	800	800	900	1100	1300
Y axis travel	mm	450	450	500	500	650	650	800
Z axis travel	mm	550	550	500	500	650	650	800
Distance from spindle end face to milling table	mm	130-680	130-680	105-605	105-605	130-780	130-780	160-960
Distance from spindle center to column	mm	551	551	N/A	595	770	770	N/A
Table size	mm	750x460	750x460	1000x500	1000x500	1000x600	1200x650	1400x800
T-slot size/amount /distance	mm/pcs/mm	14x3x125	14x3x125	18x5x100	18x4 (102-120-102)	18x5x120	18x5x120	18x6x120
Max load on table	kg	350	350	500	500	600	700	800
Spindle taper		BT30	BT40	BT40	BT40	BT40	BT40	BT40/BT50
Max spindle rotation speed	rpm	20000	12000			10000/12000		
Spindle power	kw	7.5	7.5	7.5	7.5	7.5	11	11
Tool type	Type	Knife arm type						
Tool quantity	pcs	24	24	24	24	24	24	24
Max. tool diameter	mm	78	78	78	78	78	78	78
Max. tool diameter (tools slots beside not occupied)	mm	120	120	120	120	120	120	120
Max. tool length	mm	300	300	300	300	300	300	300
Max. tool weight	kg	8	8	8	8	8	8	8
Tool changing time	s	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Fast moving speed (X/Y/Z)	m/min	48/48/48	48/48/48	48/48/48	48/48/48	36/36/36	36/36/36	36/36/36
Cutting speed (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10	10/10/10
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Air source	L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min
Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar
Total power	kva	10	10	25	25	25	25	40
Dimension (L*W*H)	mm	2200x2600x2550	2200x2600x2550	2700x2400x2500	2700x2400x2500	2800x2670x2800	3300x2670x2800	3800x2800x3300
Weight	kg	3900	3900	5200	5200	5800	6500	9000

RKS-850L/1060L

Two-line Integrated Hard Rail Machining Center Series



MACHINE FEATURES

- ◆ Fixed column type and Y-axis with four-guide rail design to ensure heavy load capacity and accuracy during processing;
- ◆ The combination of the X/Y axes high speed of linear rail and the Z axis high rigidity of hard rail, suitable for processing different material and with heavy cutting ability and good shock absorption;
- ◆ Rear flushing chip removal with a built-in double screw conveyor, and rear water tank design, automated and efficient. The labyrinth water tank filtration system structure, good cutting fluid for workpiece processing;
- ◆ The high-speed tool changing design, combined with pre-sensing control and high-efficiency tool cutting system, fast tool changing speed;
- ◆ A double nut design precision ball screw, and a total of five ball bearings applied in the support seats at both ends to lock and pre-tension to ensure the stable accuracy during thermal expansion.

APPLICATION

It is suitable for processing various types of small and medium-sized batches of complex parts such as medium and large boxes, plates, disks, valves, shells, molds, etc. And widely used in precision parts, hardware, auto parts, and medical equipment industries.

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft&memory card, 1 set hexagon socket

MACHINE PARAMETERS

Item		Unit	RKS-850L	RKS-1060L	RKS-1270L	RKS-1370L
Travel	X axis travel	mm	800	1000	1200	1300
	Y axis travel	mm	500	600	700	700
	Z axis travel	mm	500	600	600	600
	Distance from spindle end face to milling table	mm	110-610	70-670	87-687	150-750
	Distance from spindle center to column	mm	560	655	785	785
Milling Table	Table size	mm	1000×500	1300×600	1360×700	1360×700
	T-slot size/amount /distance	mm/pcs/mm	450	800	1000	1000
	Max load on table	kg	18×5×90	18×5×100	18×5×122	18×5×122
Spindle	Spindle taper		BT40	BT40	BT40/BT50	BT40/BT50
	Max spindle rotation speed	rpm	8000/10000	8000/10000	8000/10000	8000/10000
	Spindle power	kw	7.5	11	11	15
Tool Changer	Tool type	Type	Knife arm type	Knife arm type	Knife arm type	Knife arm type
	Tool quantity	pcs	24	24	24	24
	Max. tool diameter	mm	78	78	78	78
	Max. tool diameter (tools slots beside not occupied)	mm	120	120	120	120
	Max. tool length	mm	300	300	300	300
	Max. tool weight	mm	8	8	8	8
Tool changing time	s	1.7	1.7	1.7	1.7	
Speed	Fast moving speed (X/Y/Z)	m/min	24/24/24	24/24/24	24/24/20	24/24/20
	Cutting speed (X/Y/Z)	m/min	10/10/10	10/10/10	10/10/10	10/10/10
Accuracy	Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.01	0.01
	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.006	0.006
Others	Air source	L/min	280L/min	280L/min	280L/min	280L/min
	Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar
	Total power	kva	25	25	30	30
	Dimension (L*W*H)	mm	2700×2400×2900	3300×2700×2900	3600×2800×2900	3600×2800×2900
	Weight	kg	6000	8500	9000	9500

RKS-850B/1060B

Three Hard Rail High Rigid Mold Machine Series



MACHINE FEATURES

- ◆ Fixed column type, cross slide structure, extra-large stable base and high-rigidity large-span herringbone columns, lesser deformation during high-speed cutting;
- ◆ The X/Y/Z axes with high-rigidity rectangular hard rails, good shock absorption and good heavy-cutting performance.
- ◆ A high-speed and high-precision spindle unit, the front end with a labyrinth design, and an air curtain protection function to prevent cutting fluid from entering the spindle bearing;
- ◆ A front chip removal design placed inside of the machine table to save space, with large cutting fluid capacity, quickly discharge the cutting heat.
- ◆ Equipped with a high-performance CNC system to ensure the stability of machine tool control and have excellent CNC processing functions and auxiliary functions.
- ◆ A double nut design precision ball screw, and a total of five ball bearings applied in the support seats at both ends to lock and pre-tension to ensure the stable accuracy during thermal expansion.

APPLICATION

It is suitable for small and medium-sized batch processing of various types of complex parts such as small and medium-sized boxes, plates, valves, shells, molds, etc. and widely used in precision parts, precision molds, hardware, auto parts, and medical equipment industries.

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft&memory card, 1 set hexagon socket

MACHINE PARAMETERS

Item	Unit	RKS-850B	RKS-1060B	RKS-1270B	RKS-1370B	RKS-1580B	RKS-1690B	RKS-1890B	
Travel	X axis travel	mm	800	1000	1200	1300	1500	1600	1800
	Y axis travel	mm	500	600	700	700	800	900	900
	Z axis travel	mm	550	600	600	650	700	680	800
	Distance from spindle end face to milling table	mm	105-655	180-780	150-750	150-800	185-885	160-840	160-960
	Distance from spindle center to column	mm	550	600	785	785	810	950	950
Milling Table	Table size	mm	1050×500	1300×630	1360×700	1400×710	1700×800	1800×900	2000×900
	T-slot size/amount /distance	mm/pcs/mm	18×5×100	18×5×120	18×5×152.5	18×5×152.5	22×5×135	22×5×165	22×5×165
	Max load on table	kg	600	800	1000	1000	1500	1600	1600
Spindle	Spindle taper		BT40	BT40	BT40/BT50	BT40/BT50	BT50	BT50	BT50
	Max spindle rotation speed	rpm	8000/10000	8000/10000	8000/10000	8000/10000	6000/8000	6000/8000	6000/8000
	Spindle power	kw	7.5	11	11/15	11/15	15	15/18.5	18.5
Tool Changer	Tool type	Type	Knife arm type						
	Tool quantity	pcs	24	24	24	24	24	24	24
	Max. tool diameter	pcs	78	78	78	78	78	78	78
	Max. tool diameter (tools slots beside not occupied)	mm	120	120	120	120	120	120	120
	Max. tool length	mm	300	300	300	300	300	300	300
	Max. tool weight	mm	8	8	8	8	8	8	8
Speed	Tool changing time	kg	1.7	1.7	1.7	1.7	1.7	1.7	1.7
	Fast moving speed (X/Y/Z)	m/min	15/15/12	15/15/12	12/12/10	12/12/10	12/12/10	12/12/10	12/12/10
Accuracy	Cutting speed (X/Y/Z)	m/min	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6	6/6/6
	Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008	0.008
Others	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Air source	L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min
Weight	Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar
	Total power	kva	25	25	25	30	30	30	25
	Dimension (L*W*H)	mm	2700×2400×2500	3300×2700×2900	3600×2800×2900	3700×2850×2900	4110×3100×3200	4310×3100×3300	6000×3800×3300
	Weight	kg	5500	7500	9000	9500	12300	12800	13800

RKS-H9/H11

Horizontal Machining Center Series



MACHINE FEATURES

- ◆ Fixed column type, cross slide structure, extra-large stable base and high-rigidity large-span herringbone columns, high accuracy and rigidity and lesser deformation during high-speed cutting;
- ◆ Fully enclosed cover for protection, beautiful appearance and easy to operate and maintain;
- ◆ A high-speed spindle unit, the front end with a labyrinth design, equipped with an air curtain protection function to prevent cutting fluid from entering the spindle bearing for protecting the spindle;
- ◆ 24-tool arm type tool changer, reliable quality and stable performance;
- ◆ The chip removal of the machine with rear slopes on both sides, user-friendly and efficient, rear water tank design, double-layer water tank filtration system structure, good cutting fluid for workpiece processing.

APPLICATION

It is suitable for processing various types of small and medium-sized batches of complex parts such as small and medium-sized boxes, plates, disks, valves, and shells made of non-ferrous metals and widely used in the mold, auto parts, and medical equipment industries.

FIXED COLUMN TYPE

- ◆ The worktable can do cross movement, when it moves in the X and Z directions, and the spindle box moves in the Y direction. The main spindle box has two forms of front hanging and side hanging on the column; it is suitable for multi-tasking processes such as boring and milling of medium-sized complex parts.
- ◆ The main spindle box can do cross movement, the main spindle box moves in the X and Z directions, and the worktable moves in the Y direction; it is suitable for multi-task processing such as boring and milling of small and medium-sized parts.
- ◆ The main spindle box is hung on the side and the main column, and the spindle box moves in the Y and Z directions. This layout is similar to the planer type horizontal milling and boring machine, and the worktable moves in the X direction; it is suitable for multi-tasking processes such as boring and milling of medium-sized parts.

MOBILE COLUMN TYPE

- ◆ Planer type, the bed is T-shaped, the work table moves in the X direction on the front bed, and the column moves in the Z direction on the rear bed part; the main spindle box has two forms of hanging which is upright and upside down on the column. Y-direction movement is suitable for multi-tasking processes such as boring and milling of medium and large parts, especially long parts.
- ◆ Column cross movement type, the column moves in Z and U (parallel to the X direction), the main spindle box moves in the Y direction on the column, and the work table moves in the front bed. It is suitable for multi-task processing such as boring and milling of medium-sized and complex parts.
- ◆ Spindle ram feed type, the spindle box moves in the Y direction on the column, and the spindle ram moves in the Z direction. The column moves in the X direction. The work table is fixed or equipped with a rotary work table; it can be equipped with multiple work tables, which is suitable for processing small and medium-sized multiple parts. The workpiece loading&unloading and cutting time can overlap.

MACHINE PARAMETERS

Item		Unit	RKS-H9	RKS-H11
Travel	X axis travel	mm	900	1100
	Y axis travel	mm	650	650
	Z axis travel	mm	650	650
	Distance from spindle end face to milling table	mm	0-650	0-650
Milling Table	Table size	mm	500×500(rotary table)	500×500(rotary table)
	T-slot		18H7	18H7
	Max load on table	kg	700	800
Spindle	Spindle taper		BT40	BT40
	Max spindle rotation speed	rpm	10000/12000	10000/12000
Tool Changer	Tool type	Type	Knife arm type	Knife arm type
	Tool quantity	pcs	24	24
	Max. tool diameter	mm	78	78
	Max. tool diameter (tools slots beside not occupied)	mm	120	120
	Max. tool length	mm	300	300
	Max. tool weight	mm	8	8
	Tool changing time	s	1.7	1.7
Speed	Fast moving speed (X/Y/Z)	m/min	36/36/36	36/36/36
	Cutting speed (X/Y/Z)	m/min	10	10
Accuracy	Positioning accuracy (X/Y/Z)	mm	0.008	0.008
	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005
Others	Air source	L/min	280L/min	280L/min
	Air pressure	bar	6~8bar	6~8bar
	Dimension (L*W*H)	mm	2800×2750×2700	3300×2750×2700
	Weight	kg	7000	7000

RKS-1311/1614

Gantry Machining Center Series



MACHINE FEATURES

- ◆ Integrated design of columns and beams, good rigidity, high processing precision and good stability;
- ◆ The three-axis guide rail with roller linear rail, fast dynamic response, high precision and no crawling;
- ◆ The three-axis feed is driven by a motor directly connected to a high-precision ball screw. The fixed pre-stretched structure at both ends of the screw, high transmission accuracy;
- ◆ The spindle is equipped with a belt transmission BT50-6000rpm, and a gear head and electric spindle are optional to meet different processing needs;
- ◆ The Z-axis is equipped with a nitrogen balance device and has good load characteristics;
- ◆ The chip removal of the machine adopts double screw conveyors and a front chain plate chip conveyor, high automation;
- ◆ A timed and quantitative lubrication system, controlled by the electrical system to achieve fully automatic centralized lubrication;

APPLICATION

It is mainly suitable for high-speed and high-precision processing of parts in auto parts, molds, engineering machinery, valves, rail transit, energy, agricultural machinery, coal mining machinery and other industries;

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft

MACHINE PARAMETERS

Item	Unit	RKS-1311	RKS-1614	RKS-2016	RKS-2518	RKS-3018	RKS-3020
X axis travel	mm	1350	1600	2100	2600	3200	3000
Y axis travel	mm	1200	1500	1650	1800	1800	2020
Z axis travel	mm	600	800	700	700	700	900
Distance from spindle end face to milling table	mm	120-770	150-950	150-850	150-850	150-850	200-1100
Effective door width	mm	1220	1500	1650	1850	1850	2020
Table size	mm	1400×1000	1700×1200	2200×1400	2600×1600	3100×1600	3100×1700
T-slot size/amount /distance	mm/pcs/mm	20×5×180	22×7×170	22×7×192.5	22×7×192.5	22×9×192.5	22×9×192.5
Max load on table	kg	2500	3500	4000	4000	4000	6000
Spindle taper		BT40	BT40/BT50	BT40/BT50	BT40/BT50	BT40/BT50	BT40/BT50
Max spindle rotation speed	rpm	10000	8000/10000	8000/10000	8000/10000	8000/10000	8000/10000
Tool type	Type	Knife arm type					
Tool quantity	pcs	24	24	24	24	24	24
Max. tool diameter	mm	78	78	78	78	78	78
Max. tool diameter (tools slots beside not occupied)	mm	120	120	120	120	120	120
Max. tool length	mm	300	300	300	300	300	300
Max. tool weight	kg	8	8	8	8	8	8
Tool changing time	s	1.7	1.7	1.7	1.7	1.7	1.7
X axis rail line	mm	45	45	45	55	55	55
Y axis rail line	mm	45	45	45	55	55	55
Z axis rail line	mm	45	45	45	55	55	45
X axis lead screw	mm	50*10	50*10	50*10	50*10	63*12	63*12
Y axis lead screw	mm	40*10	50*10	50*10	50*10	50*10	50*10
Z axis lead screw	mm	40*10	50*10	50*10	50*10	50*10	50*10
Fast moving speed (X/Y/Z)	m/min	16/16/16	15/15/15	16/16/16	16/16/16	16/16/16	16/16/16
Cutting speed (X/Y/Z)	m/min	8/8/8	8/8/8	8/8/8	8/8/8	8/8/8	8/8/8
Positioning accuracy (X/Y/Z)	mm	0.008	0.008	0.008	0.008	0.008	0.008
Repeat position accuracy (X/Y/Z)	mm	0.005	0.005	0.005	0.005	0.005	0.005
Air source	L/min	280L/min	280L/min	280L/min	280L/min	280L/min	280L/min
Air pressure	bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar	6~8bar
Weight	kg	8500	12000	16000	19000	21000	25000

RKS-T1800/V25

Profile Machining Center Series



MACHINE FEATURES

- ◆ Large stroke , suitable for processing large-sized, narrow and long parts;
- ◆ The X-axis feed system with gear and rack transmission, adaptive modular combination, more stable processing;
- ◆ The movable operating box, easy operation of the machine tool at any position.
- ◆ Using Mitsubishi M80 system, friendly human-machine interface, simple operation, significantly improving production efficiency.

APPLICATION

It mainly processes internal profiles of rail transit locomotive, narrow and long automobile parts, TV frames, refrigerator frames, communication equipment casings, aluminum alloy profiles, aluminum-wood composite profiles, copper profiles, PVC profiles, etc. in the smart home appliance industry.

STANDARD ACCESSORIES

1 set vise and horse iron, 4 sets tool handle and rivets, 1 pc knife lock holder, 1 set mouth&airsoft&water gun, 1 set hexagon socket

MACHINE PARAMETERS

Item	Unit	RKS-T1800	RKS-V25	
Travel	X axis travel	mm	1850	2500
	Y axis travel	mm	520	600
	Z axis travel	mm	450	700
	Distance from spindle end face to milling table	mm	130-450	110-810
	Distance from spindle center to column	mm	550	634
Milling Table	Table size	mm	1900×500	3100×500
	T-slot size/amount /distance	mm/pcs/mm	14×5×100	18×5×106
	Max load on table	kg	500	1000
Spindle	Spindle taper		BT30	BT40
	Max spindle rotation speed	rpm	20000	1200
	Tool type	Type	Clamp type	Clamp type
Tool Changer	Tool quantity	pcs	21	24
	Max. tool diameter	mm	16/21	78
	Max. tool diameter (tools slots beside not occupied)	mm	60-100	120
	Max. tool length	mm	80-140	300
	Max. tool weight	kg	200-250	8
	Tool changing time	s	1.2	1.7
Speed	Fast moving speed (X/Y/Z)	m/min	48/48/48	36/36/36
	Cutting speed (X/Y/Z)	m/min	10/10/10	10/10/10
	Positioning accuracy (X/Y/Z)	mm	0.008	0.008
Accuracy	Repeat position accuracy (X/Y/Z)	mm	0.005	0.005
	Air source	L/min	280L/min	280L/min
Others	Air pressure	bar	6-8bar	6-8bar
	Dimension (L*W*H)	mm	4200×2200×2500	5500×3000×2500
	Weight	kg	6300	9600

PROCESSING SAMPLES

