



Wenzhou Artech Machinery Technology Co., Ltd.



DETAILS DETERMINE SUCCESS OR FAILURE,  
QUALITY DETERMINES THE FUTURE



**WENZHOU ARTECH MACHINERY TECHNOLOGY CO.,LTD.**

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**AUTOMATION**  
MECHANICAL EQUIPMENT FIELD



## CERTIFICATE



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## ABOUT US

Wenzhou Artech Machinery Technology Co., Ltd. was established in 2009 and specialized in independent research and development, production and manufacturing of machine tool equipment. With a professional research and development team and years of technical accumulation and practical experience, Wenzhou Artech successfully develops multiple patented products every year, dedicated to providing high-quality and high-performance machine tool equipment to global customers.

The product lines cover multiple fields such as ordinary CNC lathes, ball valve lathes, grinding machines, and special machines, which are widely used in plumbing, gas transmission, instrumentation, electronics, and many other industries. Our products are renowned for high precision, high efficiency, and high stability, and are favored by customers both domestically and internationally.

**Vision:** To become the world's leading manufacturer of valve parts

**Mission:** To provide professional solutions for valves and demanding fluid conditions

**Values:** integrity, Focus, Innovation, Win-win

## OUR TEAM



### PRE SALES SUPPORT

Wenzhou Artech's sales and design personnel have undergone professional training and possess professional product knowledge, providing customers with professional pre-sales guidance and understanding their actual needs to recommend suitable equipment.

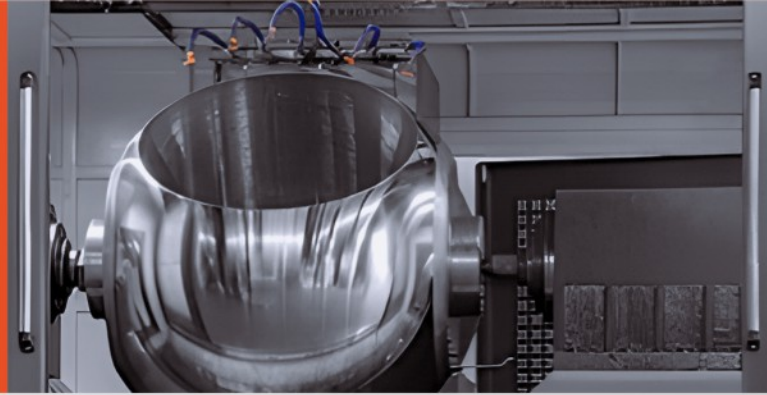
### AFTER SALES TRAINING

After sales, Wenzhou Artech's will provide professional equipment operation training to ensure that customers are familiar with using and operating the equipment

### DEDICATED SERVICE

Wenzhou Artech's promises to provide customers with long-term online consulting services, timely respond to any customer needs regarding technical services and equipment training, provide professional pre-sales guidance, improve after-sales service quality, enhance customer satisfaction, and provide customers with positive and professional service attitude from beginning to end care.

# BALL GRINDING MACHINE



## PRODUCT DETAILS

Project Name	unit	ATK-MKQ150	ATK-MKQ250	ATK-MKQ400	ATK-MKQ500	ATK-MKQ800
Sphere specification	in	2-6	4-10	8-16	10-12	18-32
Sphere inner diameter	mm	DN25-150	DN100-250	DN200-400	DN250-500	DN450-800
Sphere outer diameter	mm	SØ30-200	SØ150-400	SØ300-600	Ø400-800	Ø650-1200
Center height	mm	100	200	300	400	600
Top distance	mm	50-320	150-400	300-600	400-800	650-1200
Tailstock stroke	mm	280	300	400	600	600
Workbench maximum load bearing	Kg	200	400	1000	2000	4000
Grinding wheel motor power	Kw	4	7.5	11	15	22
Grinding wheel maximum speed	Rpm	2500	2000	1500	1200	1000
Headstock motor power	Kw	0.4	0.4	0.4	1.1	1.1
Head frame maximum speed	Rpm	50	30	20	15	12
X/Z axis travel	mm	200/250	250/250	250/250	400/400	450/450
Head and tail frame top	-	MT5	MT5	MT6	MT6	MT6
X/Z axis repeat positioning accuracy	mm	±0.005	±0.005	±0.005	±0.005	±0.005
Surface roughness	Ra	<0.4	<0.4	<0.4	<0.4	<0.4
Spherical ovality	mm	<0.015	<0.02	<0.02	<0.02	<0.02
Dimensions (length x width x height)	cm	220x181x184	230x211x195	270x228x213	300x260x250	380x328x275
Weight	T	4	5	8	15	23

Project Name	unit	ATK-MKQ1050	ATK-MKQ1200	ATK-MKQ1400	ATK-MKQ1600
Sphere specification	in	20-42	30-48	32-56	40-64
Sphere inner diameter	mm	DN500-1050	DN750-1200	DN800-1400	DN1000-1600
Sphere outer diameter	mm	Ø800-1600	Ø1100-1800	Ø1200-2100	Ø1500-2400
Center height	mm	800	900	1100	1200
Top distance	mm	800-1600	900-1800	1200-2100	1500-2400
Tailstock stroke	mm	750	1100	1100	1000
Workbench maximum load bearing	Kg	10000	15000	20000	25000
Grinding wheel motor power	Kw	30	30	37	37
Grinding wheel maximum speed	Rpm	800	800	700	500
Headstock motor power	Kw	1.5	2.2	3.7	3.7
Head frame maximum speed	Rpm	8	8	6	5
X/Z axis travel	mm	500/500	550/550	500/500	500/500
Head and tail frame top	-	MM100	MM100	MM120	MM120
X/Z axis repeat positioning accuracy	mm	±0.005	±0.005	±0.005	±0.005
Surface roughness	Ra	<0.4	<0.4	<0.4	<0.4
Spherical ovality	mm	<0.03	<0.03	<0.03	<0.03
Dimensions (length x width x height)	cm	480x378x290	500x388x310	580x443x360	600x463x370
Weight	T	30	35	37	40

### Machine tool features

The machine tool applies the "generating method" grinding technology and is integrated with a CNC system. The entire grinding process is automatically controlled by the CNC system, which can complete the grinding work automatically according to the set program. Such a design not only ensures the stability of the grinding process but also makes operation and maintenance more convenient. The machine tool is specially designed with a grinding head spindle center adjustment mechanism to meet the requirement of equal height for the "three supports" during grinding.

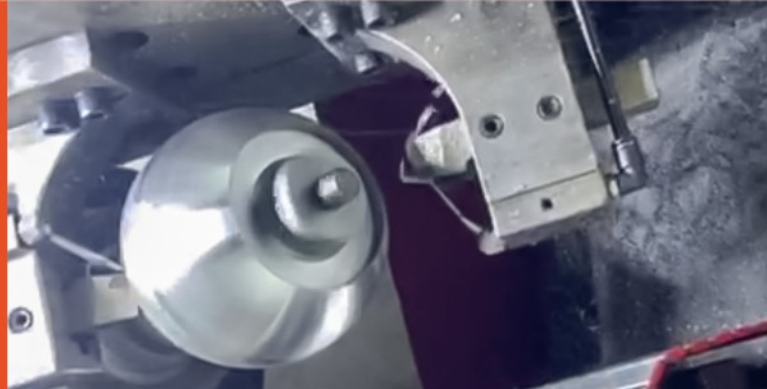
The guide rails of the machine tool are made with a hard design and enhanced through ultrasonic frequency induction hardening technology to improve their service life and mechanical properties. The sliding plate contact surface is treated with a polytetrafluoroethylene plastic coating, greatly reducing the mechanical friction coefficient and ensuring the long-term stability of the machine tool's machining precision.

The machine tool adopts CNC control and is equipped with a domestic customized CNC system and a fully digital AC servo driver. It controls two servo motors to realize the CNC function of the whole machine. It has a high degree of automation and can realize the management of multiple machines by one person, improving product quality and production efficiency.

The machine tool can grind various spherical materials, including A105, 2Cr13, 304, 304L, 316, 316L, LF2, F51, 17-4PH, Monel, ENP, Chrome Plating, Tungsten Carbide, Stellite, Incone, and ceramic balls, etc.

This machine tool is highly suitable for batch production workshops in the valve industry.

# BALL AUTOMATIC STRIPPING MACHINE



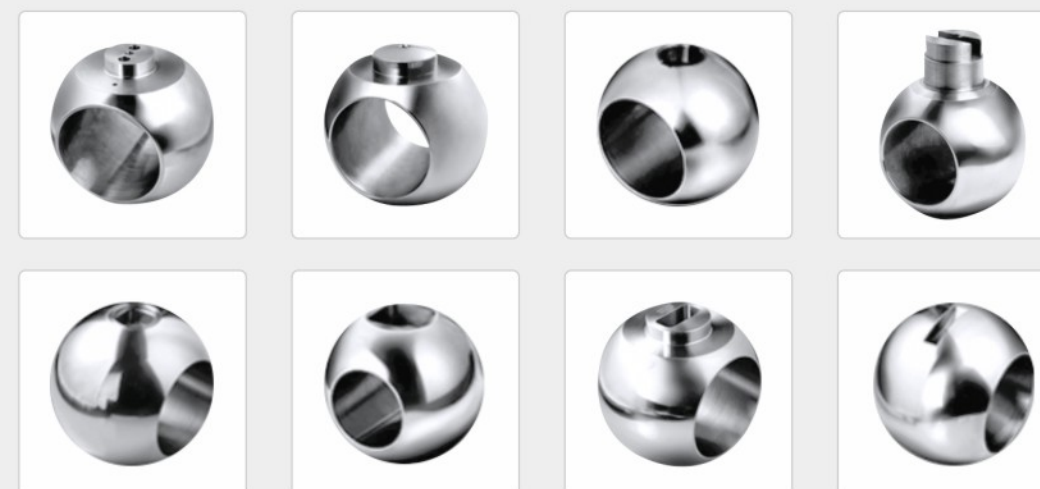
## PRODUCT DETAILS

- Can produce all kinds of ball valves such as copper balls, sand balls, pig iron balls, plastic balls, stainless steel balls. etc
- Processing pipe diameter range from 20mm to 80mm.
- Production rate: an average of 12 seconds / month, can produce about 2,500 products a day.
- It adopts new process manufacturing, unique design scheme, quicker and more convenient chip removal system, the structure adopts HT300 integralcasting, and three times aging treatment according to the process to ensure constant shape and precision. All the power head holes and reference surfaces are installed, and the machining center is used once. Processing completed.
- The biggest advantage of the machine: the product can be peeled off into a mirror with a polishing effect.

## TECHNICAL PARAMETERS

Item	ATK80	ATK130	ATK40
Spindle speed	100-4000r/min	100-2000r/min	100-4000r/min
Motor power	3kW	4kW	3kW
Weight	≈ 1.3t	≈ 2.1t	≈ 1.3t
Processing material	Stainless steel material	Stainless steel material	Stainless steel material
Processing capacity	3-5pcs per minute	2-4pcs per minute	3-5pcs per minute
Max. bar diameter	Φ80mm	Φ160mm	Φ40mm
Working power supply	380V	380V	380V
Precision	True roundness can reach 0.005mm-0.01mm	-	-
Transformer	-	2.5kW	-
Spindle asynchronous motor	-	4kW Spindle Motor	-
Wire gauge	-	HIWIN25	-

## APPLICABLE SCOPE



### Headstock

The headstock spindle has a special integrated structure, which reduces the cutting load and circular runout during processing. It has strong rigidity and good stability. The workpiece processing accuracy is stable and the service life is improved.

### Simple operation

Simple operation, convenient and quick debugging, easy for beginners to understand and operate.

### Special for sliding table

Purpose-built for sliders, heavy-duty configuration, high rigidity, precision accuracy, enhanced stability and extended service life. The patented process of turntable is driven by a worm gear and servo motor drive to ensure that the force is uniform between the two front and rear bearings. It ensures the stability, rigidity and precision of the equipment, making the equipment durable.

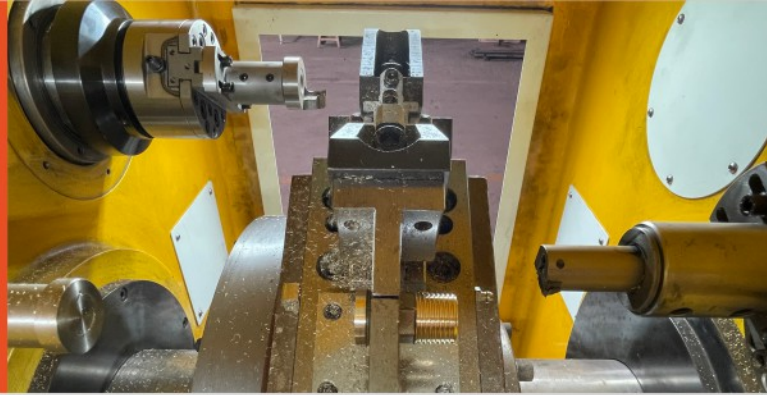
### Intuitive interface

The interface combines animation and action, making it more intuitive. The hydraulic mechanism becomes more visible once activated, and the oil tank pressure is designed with user-friendliness in mind.

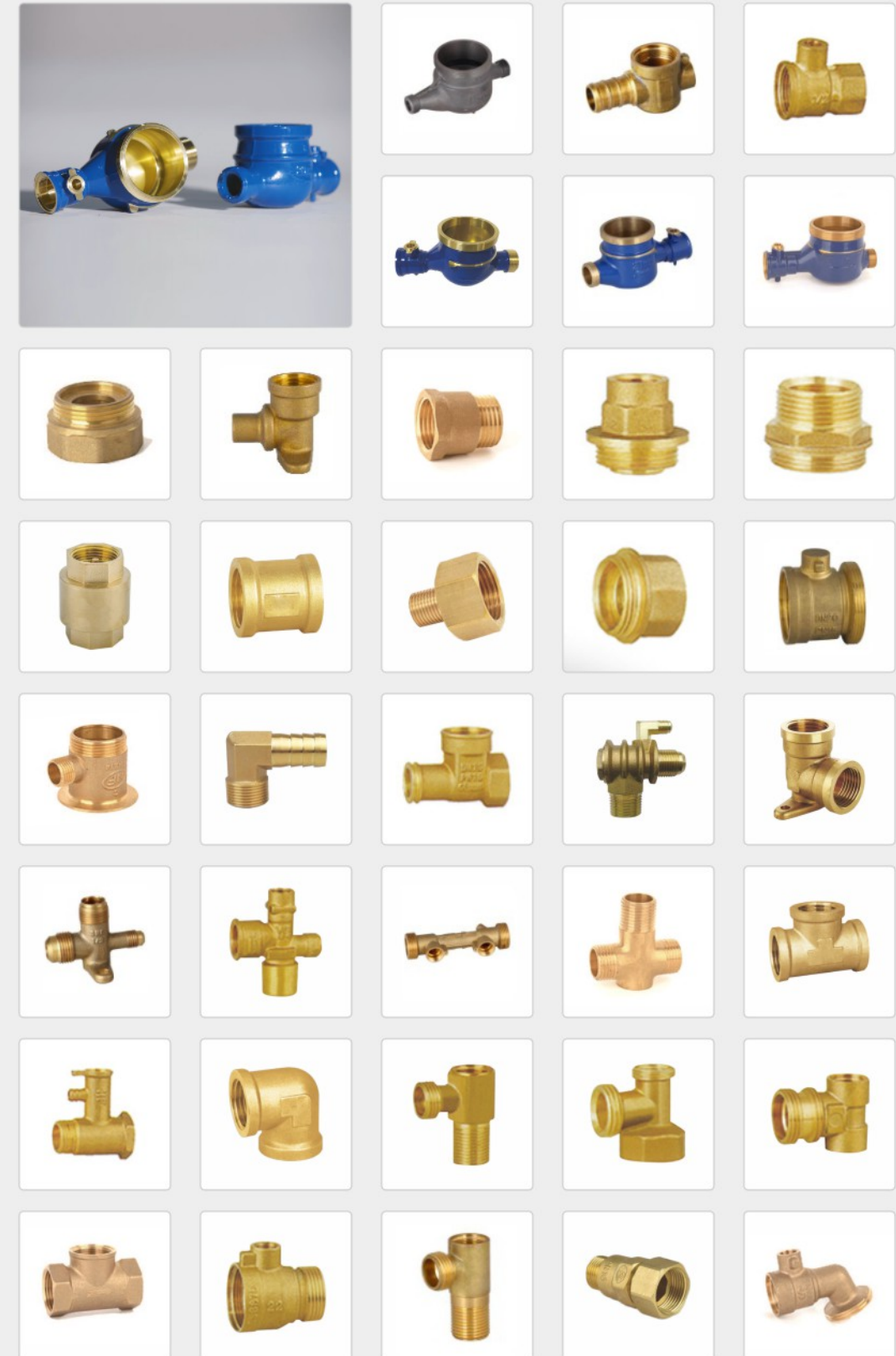
### Cut vertically

The tool cuts vertically downwards on the blank, and the chip removal is excellent without sticking to the knife. It is easy to clean up the accumulated chips on the work surface.

# SERVO TRUNNION ROTARY TRANSFER MACHINE



## APPLICABLE SCOPE



### Product Details

- **Application:** Suitable for processing within 1/4"-1" valvehousing and other tri-branch parts.
- **Power head distribution:** According to the definition of products.
- **Gripper:** Synchronous hydraulic vice.
- **Loading/unloading method:** Manual loading/unloading, Robot or manipulator can be a plus.
- **Tool cooling system:** Water cooling, spraying, gas injection and other cooling methods.
- Make the number of power head axles according to product features.

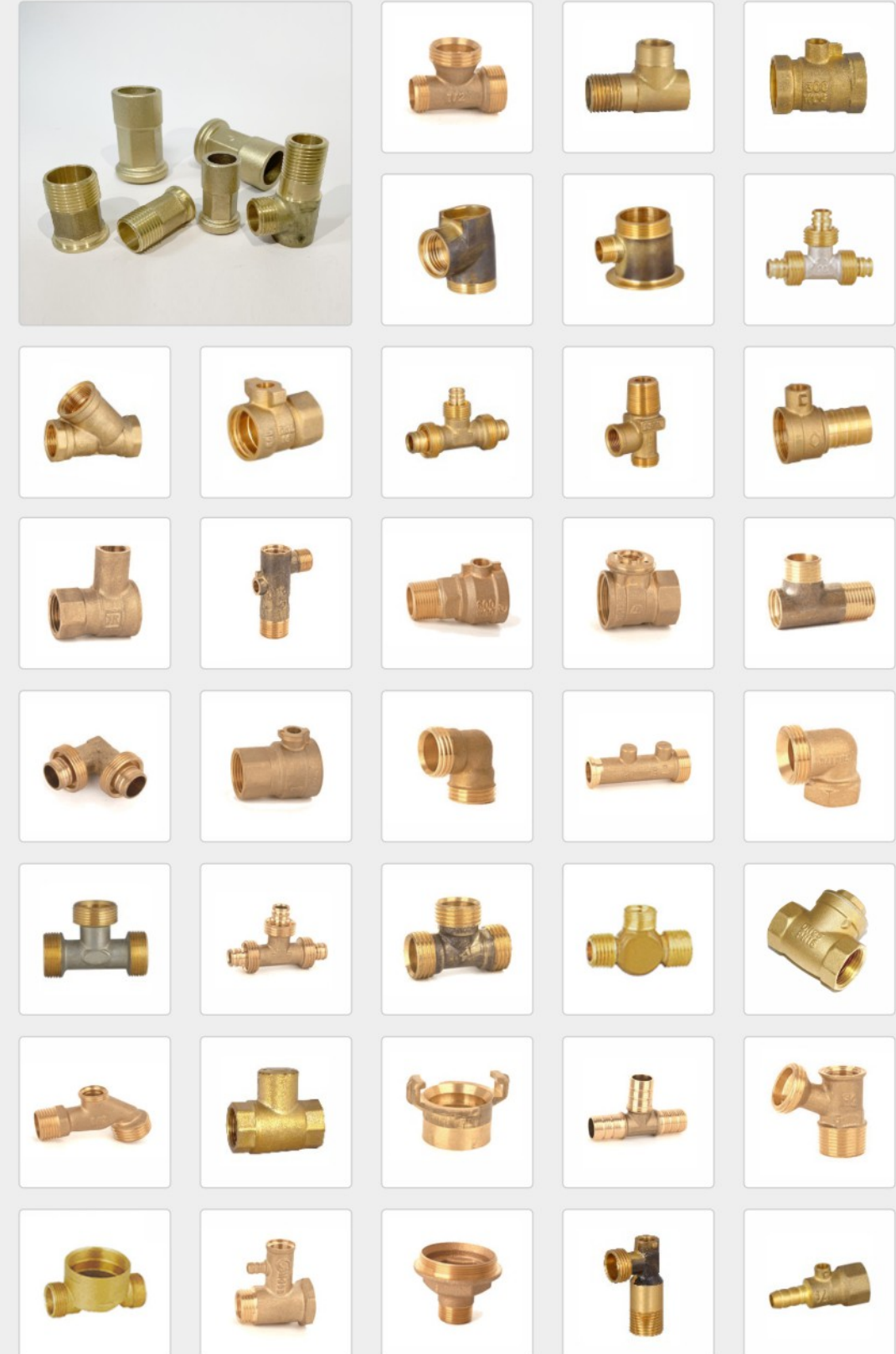
### Product Parameters

- This machine tool adopts a simplified operation interface using PCL or NC numerical control programming.
- Its structure employs the HT300 integral casting process with three stages of aging treatment: (1) tempering at 600° before rough machining, (2) tempering at 450° after rough machining, and (3) vibration aging to ensure dimensional stability and precision.
- The power head utilizes a high-precision spindle from a Taiwanese brand with Italian technology. The spindle bearings are imported from NSK/SKF, ensuring spindle accuracy of 0.003 mm.
- **Application:** pipe fitting, valves, automotive parts.
- **Table operation mode:** ATK-TV08-10HSP: 8-index (servo turntable), 1/8 = 1 second.
- **Fixture type:** hydraulic synchronous clamp selection of absolute coordinates.

# SERVO TRUNNION ROTARY TRANSFER MACHINE



## APPLICABLE SCOPE



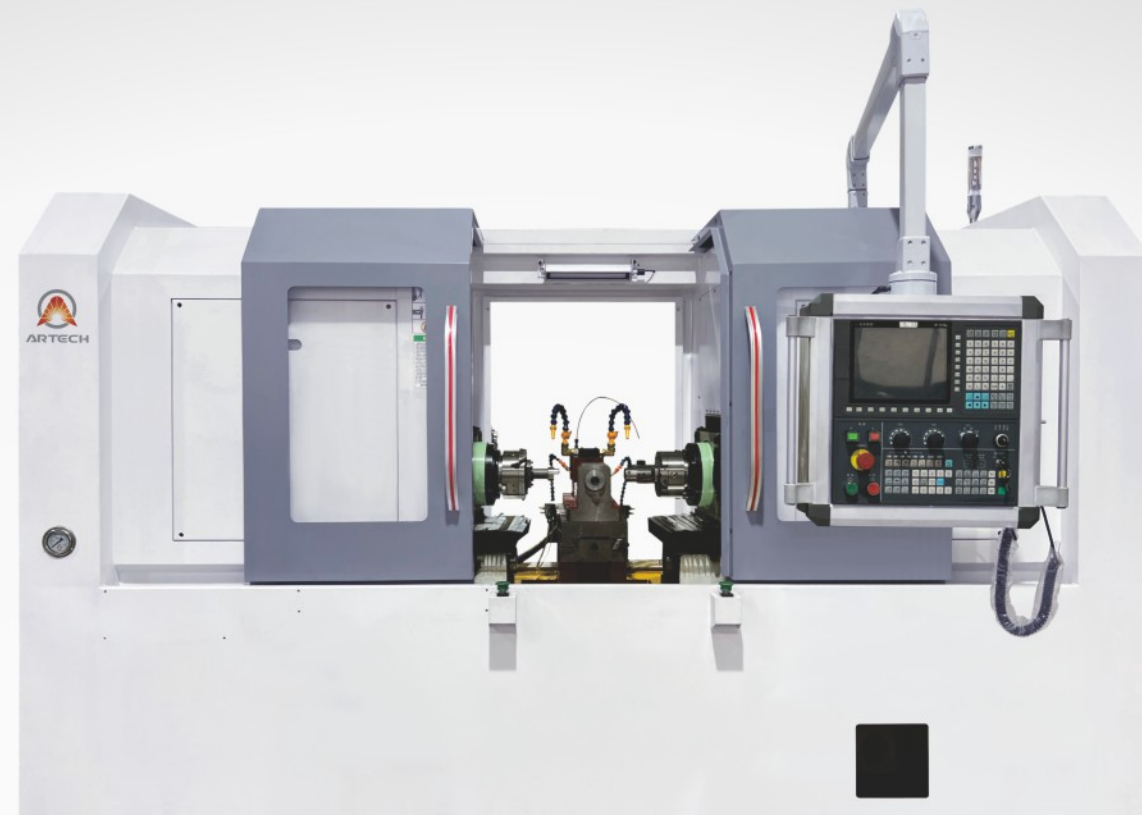
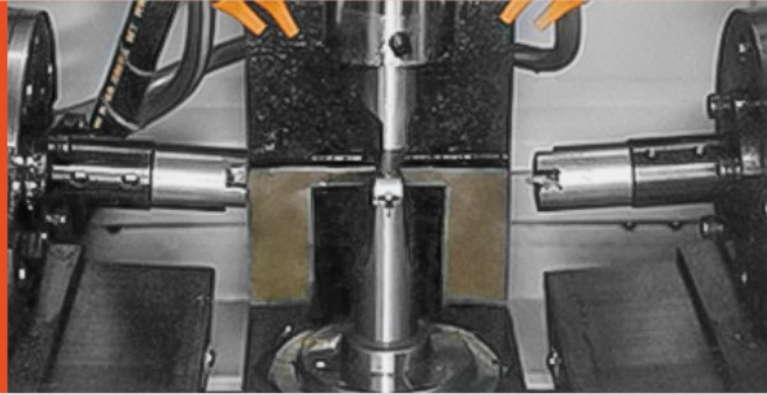
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- **Application:** pipe fitting, valves, automotive parts.
- **Table operation mode:** ATK-TV08-10HSP: 6-index (servo turntable), 1/6 = 1 second.
- **Fixture type:** hydraulic synchronous clamp selection of absolute coordinates.

# GATE VALVE SEALING SURFACE MACHINE



## TECHNICAL PARAMETERS

Item		Parameter
Capability		Sealing surface processing of 1/2"-2" gate valve body and valve plate
No. Of spindle		2 SET Spindle
Processing material		Bronze, brass, stainless steel
Capacity		12~30s/Pcs
Spindle speed		300-1500rpm
Travel	Z-Direction	≥ 150mm
	X-Direction	≥ 15mm
Machine tool control method	Control System	Taiwan Yitu
Fixture type		Hydraulic drive
Spindle drive mode		同服电机驱动
Driving mode of spindle motor		servo motor drive
X direction Motor Power		0.85KW*2 SET
Z direction Motor Power		0.85KW*2 SET
Power supply		AC380V/50HZ
Total power		11KW
Volume		2.6mx1.52mx1.75m
Weight		3500KG
Colour		The exterior protection is blue-gray white + orange red, and the bed feet are dark iron gray
Others	Cooling	Optional mist cooling and cutting fluid cooling
	Protection	Full protective sheet metal

### Application

Suitable for 3/8"-2" gate valve body and valve plate. | Suitable for 2-1/2"-4" gate valve body and valve plate.

### Processing method

Vertical

### The form of spindle facing heads

Φ165 | Φ200

### Tool cooling system

Water cooling, spraying, gas injection and other cooling methods.

### The stroke of facing heads

18mm | 20mm

## APPLICABLE SCOPE



# SERVO HORIZONTAL ROTARY TRANSFER MACHINE



## Application

Water separator body 1/4'-1" and other valves body can be machined.

## Fixture type

Hydraulic synchronous clamp

## Working steps

Upper side: rough machining, finishing, tapping

## Tool cooling system

Air cooling, tapping spray cooling

## Power head

Power head can be distributed by customer requirement.

( Additional pin ejector can be selected according to customer service requirements )

## APPLICABLE SCOPE



## ACCESSORIES CONFIGURATION



Taiwan Servo Indexing Disk



Taiwan Servo Power Head



Taiwan Synchronization Clamp



Taiwan Flow Divider Valve



Yuken Solenoid Valve



Yadeke Solenoid Valve



Schneider Electric



Servo Motor



Servo Driver