

JIANYE UNITY CO.,LTD.



JIANYE GROUP CO.,LTD.  
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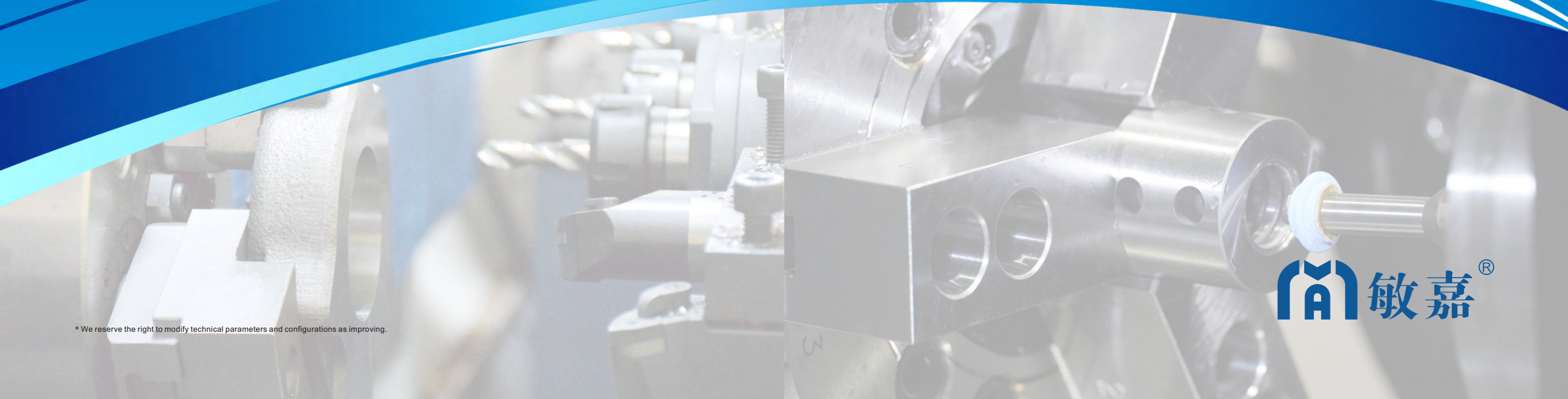
MINJIA MANUFACTURING TECHNOLOGY CO.,LTD.

- ④ Guangzhou plant: NO.35 Wenfa RD., Dawen, Dongchong, Nansha, Guangzhou, China.



# IMPROVE PRODUCTION

We support customized  
CNC machine tool solution





Cost-effective machine solution

High precision complex CNC machine

Follow drawing requirement to customized machine

LEAD CUSTOMER INTO INDUSTRY 4.0 >>>

## COMPANY

JIANYE is oversea marketing and service platform of MINJIA manufacturing technology Co.Ltd.

Main product: CNC Grinding machine, Turn-Mill Center, CNC lathe machine, Multi-spindle VMC CNC customized machine , Automatic product line solution.

We establish successful machine project in Germany ,Italy, Lithuania ,Turkey, Brzail ,Russia, Bangladesh.

We have rich experience to provide machine solution to product motion and compressor parts .

According our team over **20 years** oversea development and quality service, let customer to get lower cost machine solution and improve manufacture effective.



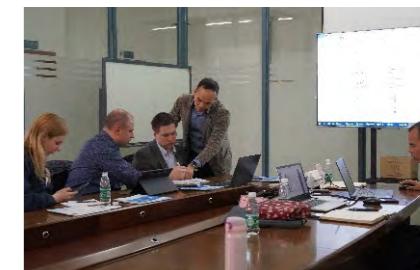
Guangzhou plant since 2001  
Suzhou plant since 2011



Product workshop



Workpiece inspectionlab



Technology meeting with Customer



Professional export Shipment



Machine laser Detection



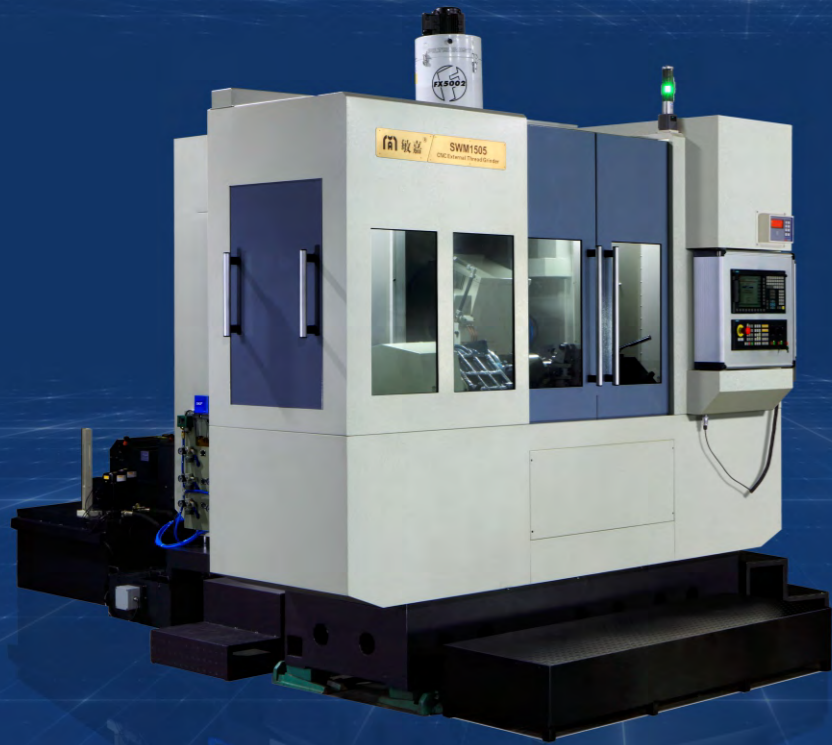
Training for operation And repair service

## Honor customers



# SWM I 505

## CNC External Thread Grinder



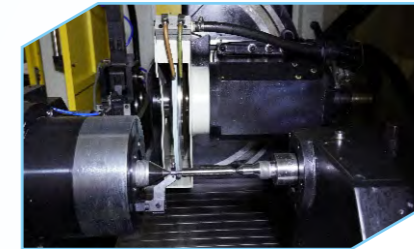
### Grinding External Thread -Circular

- The machine adopt T type mineral casting bed (SWM I 505, SWM I 510).
- The machine grinding wheel can finish external thread with V and trapezoid thread type, such as ball screw , worm shaft, rolling tool, steering component.
- Turntable set up lead angle A-axis  $\pm 25$  for grinding large angel and pitch thread with automatic.
- Wearing capacity with automatic compensation (grinding amount 0.01-0.02mm for one time).

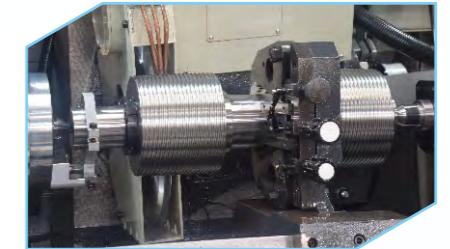


### STANDARD CONFIGURATION

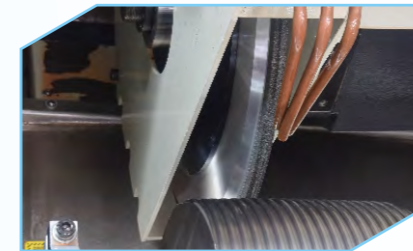
- Siemens 828D control system
- External grinding motor spindle
- Heidenhain grating ruler X/Z/C axis
- Cutting fluid filtration system
- Spindle coolant system
- Compressed air drying device
- Cabinet air condition
- Automatic lubrication system
- Oil mist absorber
- Heart-shaped clamping
- Manual Tailstock
- Grinding wheel balancing instrument



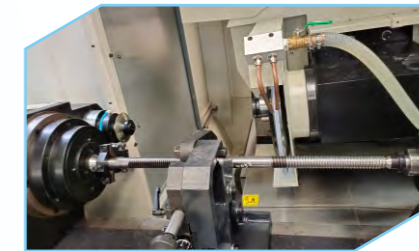
Grinding small screw



Center support for heavy workpiece



CBN grinding wheel



Grinding ball screw

### TECHNICAL SPECIFICATION:

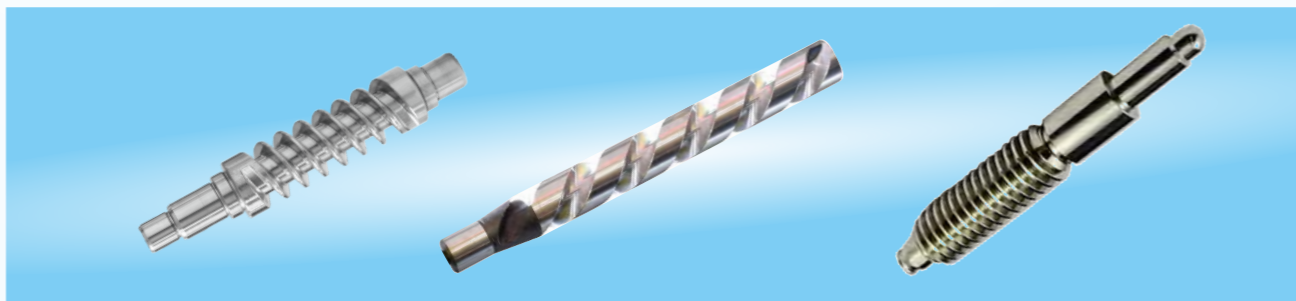
Model		SWM I 503	SWM I 505	SWM I 510	SWM I 520
<b>Capacity</b>					
Max.length of grinding thread	mm	300	500	1000	2000
Max.grinding diameter	mm	100	350	350	350
Max.distance between center	mm	320	520	1200	2200
Max.workpiece weight	kg	50	150	200	250
Max.lead angle		$\pm 25^\circ$	$\pm 25^\circ$	$\pm 25^\circ$	$\pm 25^\circ$
<b>Spindle</b>					
Grinding wheel size(OD×TH×ID)	mm	Φ500/10-25/Φ305H6	Φ500/10-25/Φ305H6	Φ500/10-25/Φ305H6	Φ500/10-25/Φ305H6
Grinding wheel spindle speed	min-1	50-3000	50-3000	50-3000	50-3000
Grinding wheel motor power	kW	7.5	7.5	7.5	7.5
Dressing wheel size(OD×TH×ID)	mm	Φ80×Φ25×30	Φ80×Φ25×30	Φ80×Φ25×30	Φ80×Φ25×30
Dressing wheel Max.spindle speed	min-1	10000	10000	10000	10000
<b>Straight axis</b>					
X/Z axis travel	mm	350/500	350/750	350/1200	350/2250
Feed rate	m/min	8	8	8	8
<b>Machining precision</b>					
Grinding trapezoid screw	mm	5 levels(accord with std.JB/2886-2008)			
Grinding ball screw	mm	P2 levels (accord with std.GB/T17587.3-1998)			
Tooth surface roughness	μm	Ra0.4			
<b>Other</b>					
Total power	kW	20			
Machine weight	T	8.5	10.5	12	14
Machine size(L/W/H)	mm	3300×3000×2200	2900×3400×2800	2800×4100×2600	3400×6200×3800

# SWM1510A CNC External Thread Grinder



## Large lead angle grinder

- The machine adopt T type mineral casting stand.
- The machine grinding wheel can finish external thread with V and trapezoid thread type, such as ball screw , extruder screw ,rolling tool, straight teeth.
- A axis lead angle +20°~-160° for grinding large angle and pitch thread.



### STANDARD CONFIGURATION

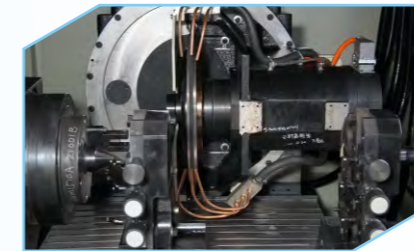
- Siemens 828D control system
- Heidenhain scales ruler X/Z/C axis
- Cutting fluid filtration system
- Spindle coolant system
- Compressed air drying device
- Cabinet air condition
- Automatic lubrication system
- Oil mist absorber
- Steady rest
- Heart-shaped clamping
- Manual Tailstock
- Grinding wheel balancing instrument



Spring adjust center in tailstock



Motor spindle for grinding wheel



Grinding wheel balancing system



Grinding wheel leadangle +20° -160°

### TECHNICAL SPECIFICATION:

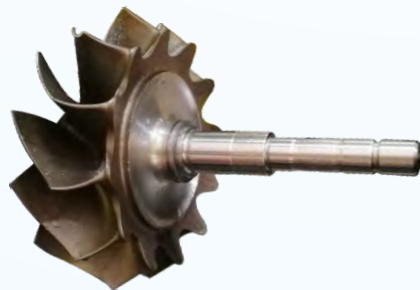
Model	SWM1510A	
Capacity		
Max.length of grinding thread	mm	1000
Max.grinding diameter	mm	200
Max.distance between center	mm	1200
Max.workpiece weight	kg	200
Max.lead angle		+20°~-160°
Spindle		
Grinding wheel size(OD×TH×ID)	mm	Φ500/25~50/Φ203 H6
Grinding wheel spindle speed	min-1	50-3000
Grinding wheel motor power	kW	15
Dressing wheel size(OD×TH×ID)	mm	Φ150×Φ25×30
Dressing wheel Max.spindle speed	min-1	10000
Available roller theory minimum tool tip rounded corner	mm	0.5
Axis		
X/Z axis travel	mm	350/1200
Feed rate	m/min	8
Machining precision		
Grinding trapezoid screw	mm	5 levels(accord with std.JB/2886-2008)
Grinding ball screw	mm	P2 levels (accord with std.GB/T17587.3-1998)
Tooth surface roughness	μm	Ra0.4
Other		
Total power	kW	20
Machine weight	T	14
Machine size(L/W/H)	mm	3500×4700×2500

# WNM1505 CNC Grinder Center



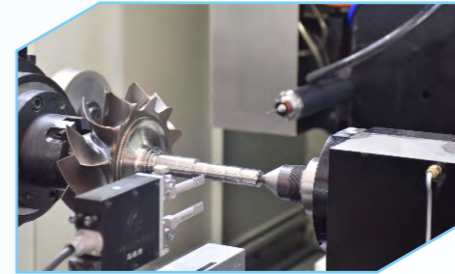
## Complex External -Internal-Thread

- This machine can grind cylindrical ,inner hole ,thread for complex precision workpiece.
- 3- station hydraulic turntable can change 3 type different grinding wheel automatically.
  - Complete machining in one operation.
  - Grinding process optimisation.
  - Reduction of machining time.
- All axis install grating scale to improve precision when moving.



### STANDARD CONFIGURATION

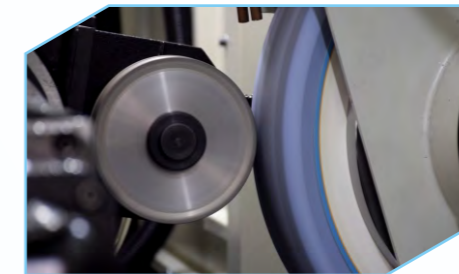
- Siemens 828D control system
- External thread grinding spindle
- Internal hole grinding spindle
- Cylindrical grinding spindle
- Heidenhain X/Z axis grating ruler
- Heidenhain Round grating ruler of C axis
- Cutting fluid filtration system
- Oil cooler of spindle
- Compressed air dryer
- Oil mist absorber
- Manual tailstock
- Automatic tool setting probe



Automatic tool setting probe



Grinding cylindrical



Dressing for forming wheel



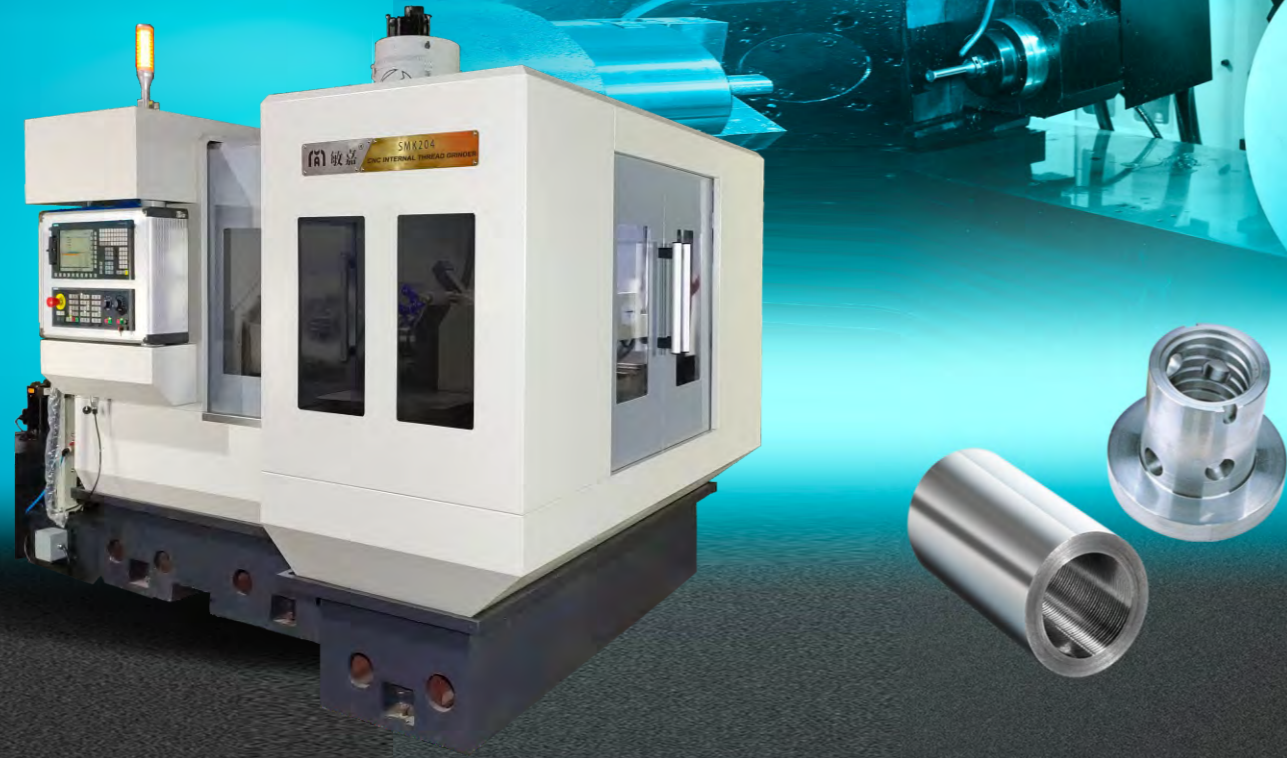
3-station customized grinding wheel

### TECHNICAL SPECIFICATION:

Model	WNM1505		
Capacity	Max. grinding diameter	mm	350
	Max. Grinding length	mm	500
	Grinding inner hole diameter	mm	Φ15-Φ150
	External thread grinding diameter	mm	Φ10-Φ300
	Max.lead angle (A axis)		±25°
	B axis min. angle (Turntable)		90°(4-station)
Spindle	C axis spindle speed	rpm	0-310
	C axis spindle motor power	kW	11
	External grinding wheel spindle speed	rpm	3500
	External grinding wheel spindle motor	kW	7.5
	Internal grinding wheel spindle speed	rpm	24000
	Internal grinding wheel spindle power	kW	5.5
	External thread grinding spindle speed	rpm	5000
	External thread grinding spindle power	kW	5.5
	Diamond dressing spindle speed	rpm	10000
	Diamond dressing spindle power	kW	1.5
Travel	X/Z axis travel	mm	350/700
	Rapid feed X/Z	m/min	8/10
Other	Total power	kW	47.5
	Weight	T	15
	Machine Size(L×W×H)	mm	3900×3000×2900

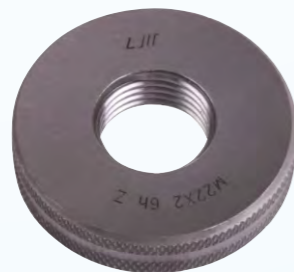
# SMK304

## CNC Internal Thread Grinder



### Grinding for Internal Thread and cylindrical

- The grinding machine is professional to processing in ball nut of Internal thread, cylindrical and ending surface for once clamping.
- T type mineral casting frame get better in vibrating and heat distortion.
- The diamond dressing wheel install on Z axis, and let grinding wheel dressing amount can be compensated automatically.
- A axis motor let internal grinding wheel to swing angle  $\pm 25^\circ$  by automatic program.

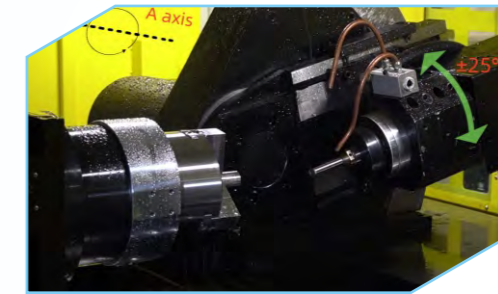


### STANDARD CONFIGURATION

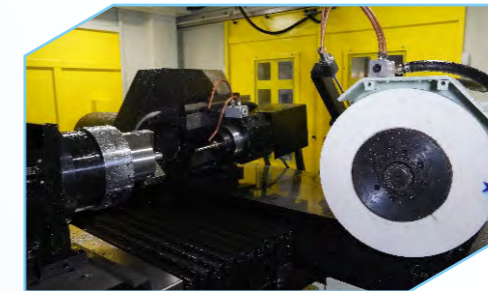
- Siemens 828D control system
- Internal thread grinding spindle
- Cylindrical grinding spindle
- C/X/Z axis grating ruler
- Spindle Oil cooler
- Compressed-air dryer
- Oil mist absorber
- Automatic tool setting probe
- Diamond grinding wheel dresser
- Hydraulic three-jaw chuck
- Automatic lubrication system
- Cabinet air condition
- Cutting fluid filtration device



T type granite base stand



A axis swing angle  $\pm 25^\circ$  by automatic



Spindle runout 0.003mm



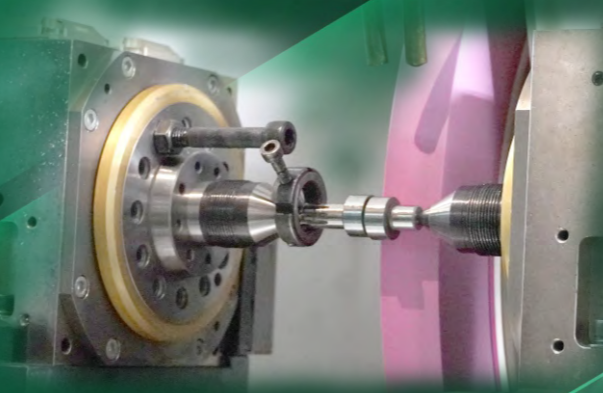
X axis and Z axis will interpolation dressing together.

### TECHNICAL SPECIFICATION:

Model	SMK304		
Capacity	Max.grinding internal thread diameter	mm	$\Phi 12\sim\Phi 100$
	Max.grinding internal thread length	mm	150
	Max.lead angle	degree	R 25°/ L 25°
Processing accuracy	Thread surface roughness	$\mu\text{m}$	Ra0.32
	Outer cylindricity	mm	0.004
External grinding wheel spindle	Max.spindle speed	rpm	3000
	Spindle power	kW	5.5
	External grinding wheel size	mm	$\Phi 400\times 32\times\Phi 127$
Internal thread grinding wheel spindle	Max.spindle speed	rpm	36000
	Spindle power	kW	8.5
Diamond wheel	Wheel size(OD×ID×TH)	mm	$\Phi 100\times\Phi 25\times 30$
	Max.spindle speed	rpm	10000
Workpiece spindle	Spindle speed	rpm	0~100
	Rated power	kW	9.5
X/Z axis	Machine travel (X/Z)	mm	650/350
Other	Machine size(Length*width*height)	mm	3100/2000/2410
	Machine weight	T	6

# WNM400

## High Precision CNC Complex Grinder



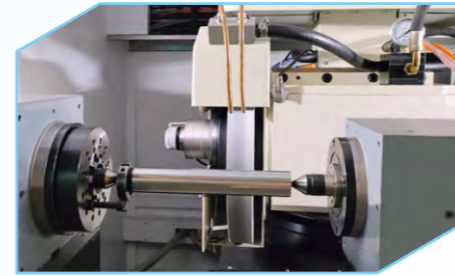
### Grinding External -Internal-Unround

- Roundness 0.5um/Straightness 2um/Roughness < Ra 0.4
- Cast mineral composite bed with optimum vibration dampening
- Liquid hydrostatic suspension headstock/grinding spindle
- B-axis with torque motor for internal and external grinding wheel changing

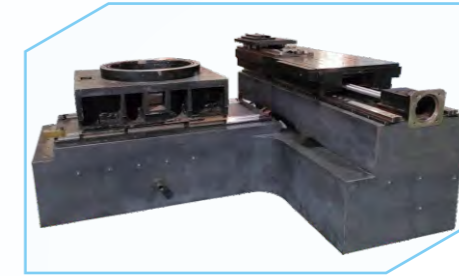


### STANDARD CONFIGURATION

- Siemens 840DSL control system
- External and internal grinding hydrostatic spindle
- Hydrostatic suspension headstock
- Hydrostatic suspension tailstock
- X axis linear motor driver
- Cutting fluid filtration system
- Oil cooler of spindle
- Compressed air dryer
- Oil mist absorber
- External wheel automatic balancing system



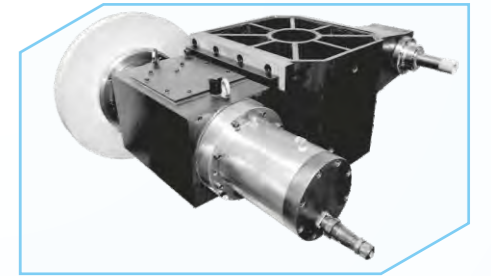
Grinding high precision workpiece as external -internal-unround



Granite base stands with low expansion coefficients  
X/Z/C axis follow high precision encoder



Hydrostatic headstock and tailstock to keep running high precision and life



B axis 0.0001° division with encoder;  
hydrostatic suspension external grinding spindle.

### TECHNICAL SPECIFICATION:

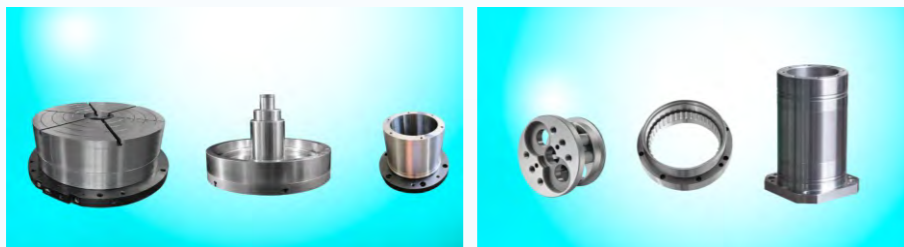
Model		WNM 400	
Capacity	Center distance	mm	400
	Center height	mm	125
	Max. workpiece weight	kg	30
X axis	Max. travel	mm	320
	Speed	mm/min	10000
Z axis	Max. travel	mm	550
	Speed	mm/min	10000
Grinding wheel B axis	Swing range		-15° ~ +195°
	Grinding wheel taper diameter	mm	80
	Motor power	kW	5.5
External grinding spindle	Grinding wheel size ( OD×W×ID )	mm	500× ( 50 ~ 35 ) ×305
	Grinding wheel linear speed	m/s	50
Internal grinding spindle	Bore diameter	mm	120
	Internal grinding spindle speed	r/min	24000
Headstock	Speed range	r/min	1-1500
	Taper		MT4
	Spindle bore diameter	mm	26
Tailstock	Drive motor	kW	3
	Taper		MT4
	Cylindricity adjustment	um	±40
Other	Control system		SIEMENS 840DSL/GSK986
	Total machine power	KVA	35
	Air pressure	Bar	0.6
	Machine weight	kg	4300

# VMK324C CNC Vertical Complex Grinder



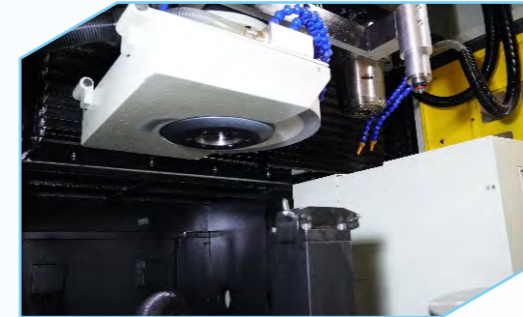
## CNC Vertical Multi-Process Grinding Machine

- The machine have multi-processing capability and high accuracy of grinding ID, OD and end face, optional inner gear.
- The design of honeycomb Tubular type machine bed and cross guideway structure for improving the higher rigidity and stability.
- External grinding wheel fixed (VMK325 optional inner gear grinding wheel) and 8pcs internal grinding wheels for different diameter in ATC.
- X/Y/Z axis follow high precision scale to improve Repetition accuracy when moving.



### STANDARD CONFIGURATION

- Siemens 828D control system
- External grinding wheel spindle
- Internal grinding wheel spindle
- Automatic lubrication systems
- Compressed air dryer
- Spindle cooling system
- Cutting fluid filtration system
- Cabinet air condition
- Automatic lubrication system
- Oil mist absorber
- Electromagnetic chuck
- Positioning probe for grinding wheel



External grinding wheel



8-station magazine tool



Turntable with grating scale to improve precision



Internal grinding process

## TECHNICAL SPECIFICATION:

Model			VMK324C	VMK325B
Capacity	Grinding diameter	mm	66-500	100-1000
	Max. grinding length	mm	300	350
	Turntable diameter	mm	Φ500	Φ1000
Machining accuracy	Roundness	mm	0.003	0.003
	Cylindricity	mm	0.002/100	0.002/100
	Flatness	mm	0.0025/30	0.0025/30
X/Y/Z/W Axis	Rapid speed	mm/min	10000	5000
	X/Y/Z/W Axis travel	mm	750/550/350/350	750/750/370/370
"Workpiece spindle (C Axis)"	Spindle motor power	kW	4.96	4.36
	Spindle speed	rpm	100	75
	Turntable bearing weight	kg	≤750	≤1500
Customized grinding wheel spindle	Max. Spindle speed	min-1	3500(external grinding )	8000(Internal gear grinding )
	Motor power	kW	7.5	15
	Grinding wheel size	mm	1-400×(20-32)×127	/
Internal grinding wheel spindle	Max. spindle speed	rpm	15000	18000
	Rated power	kW	20	20
Magazine tool	Tool number		8pcs	8pcs
Machine specification	Machine size (L×W×H)	mm	2600×2700×2700	3150×2700×3100
	Machine weight	T	11	16





# AMK204 CNC Complex Grinder

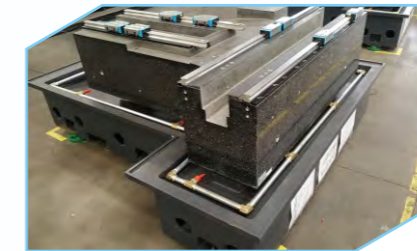
## Internal and External circular -end face grinding

- Grinding excircle ,inner hole ,end face with complex process .
- When dresser finish the grinding wheel dressing ,wheel allowance and offset automatically .

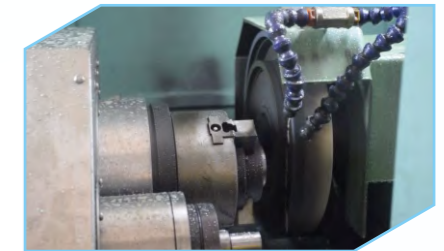


### STANDARD CONFIGURATION

- Siemens828D control system
- Grinding wheel spindle 1 (cylindrical)
- Grinding wheel spindle 2 (Inner hole)
- Compressed air drying device
- Closed-loop control device
- Oil mist absorber
- Automatic lubrication system
- Cutting fluid filtration device.
- Dressing unit
- Automatic tool setting probe



Natural granite bed improve manufacturing accuracy.



Grinding end face



Internal and external complex grinding



Dressing wheel

### TECHNICAL SPECIFICATION:

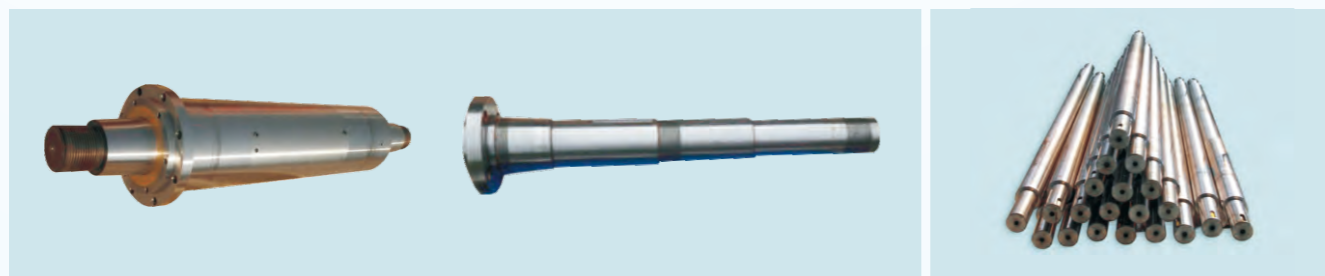
Model	AMK204	
Capacity		
Diameter of grinding inner hole	mm	Φ10~Φ100
Max.grinding inner hole length	mm	150
Diameter of grinding excircle	mm	Φ200
Length of grinding excircle	mm	150
Accuracy		
Dimensions tolerance	mm	0.005
Roundness	mm	0.005
surface roughness	μm	Ra≤0.4
Diamond grinding wheel spindle		
Size of inner hole diamond grinding wheel	um	Φ100×Φ25×30
Max. speed of diamond grinding wheel	rpm	10000
Spindle		
Speed of workpiece spindle	rpm	0~100
Power of workpiece motor spindle	kW	11
Speed of excircle and end face grinding wheel	rpm	500~3000
Size of excircle grinding wheel	mm	Φ350×32×Φ127
Max. speed of inner hole grinding wheel	rpm	24000
Travel		
X/Z axis travel	mm	600/300
Other		
Weight	kg	6200
Machine size	mm	3100×2000×2400

# AWM1503 CNC External Cylindrical Grinder



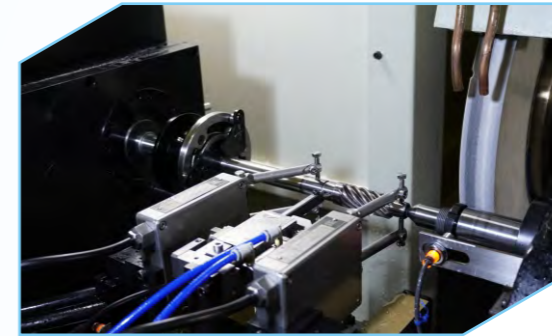
## Grinding external cylindrical shaft

- The machine can grind cylindrical and step for shaft.
- Grinding roundness 2/0.8 μm as different customized choice.
- X/Z axis Interpolation way can grinding some taper.

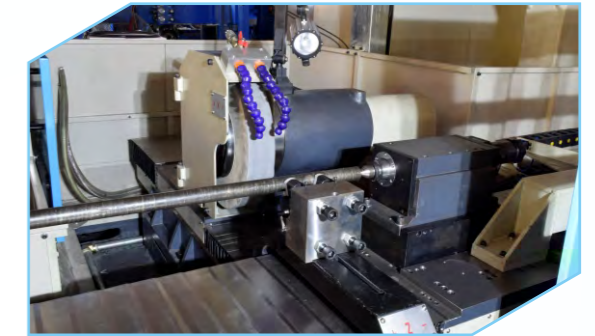


### STANDARD CONFIGURATION

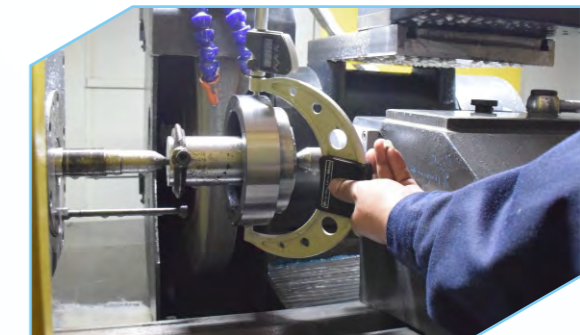
- Siemens 828D contrl system
- External grinding wheel spindle
- Cooling system
- Automatic lubrication system
- Air condition cabinet
- Oil mist absorber
- Compressed air dryer
- Cutting fluid filtration system
- Manual Tailstock
- Diameter measuring instrument
- Surface measuring instrument



Inspect grinding dia. on line



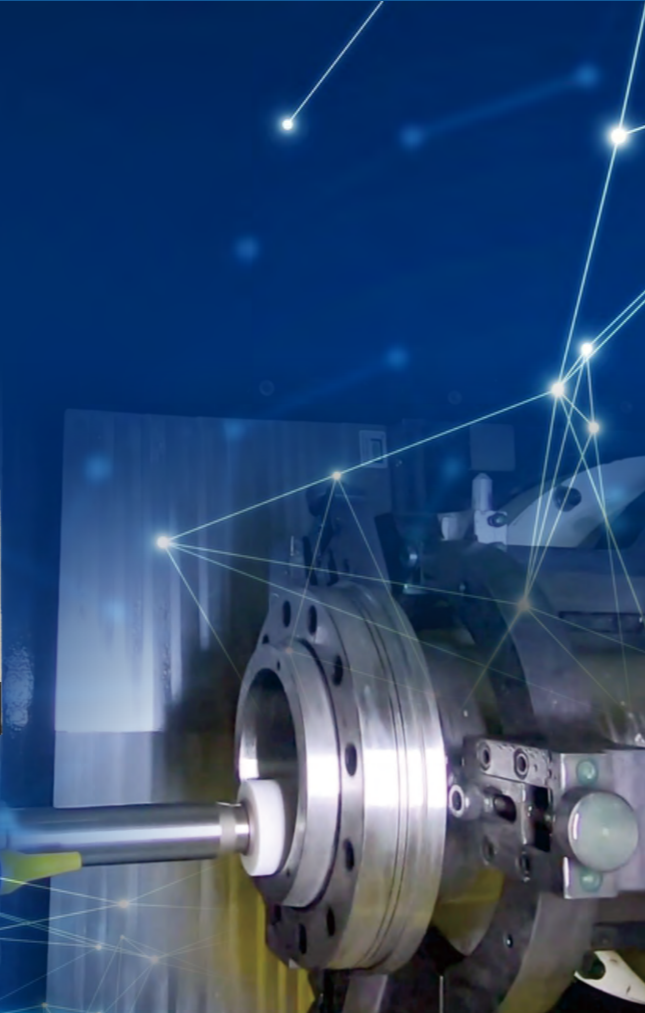
Dynamic and hydrostatic grinding wheel spindle



### TECHNICAL SPECIFICATION:

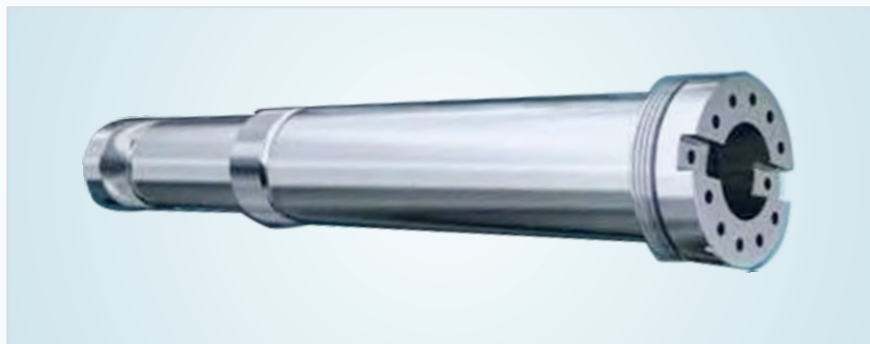
Model		AWM1503	AWM1510	AWM1515	AWM1505A
Capacity					
Height of center	mm	125	125	230	125
Max.grinding diameter	mm	200	220	220	100
Max. workpiece weight	kg	50	150	150	100
Max.grinding length	mm	300	1000	1500	500
Spindle					
Grinding wheel size(OD×W×ID)	mm	Φ500×50×Φ203	Φ450~600×63×Φ305	Φ450~600×63×Φ305	Φ450~600×63×Φ305
Power of grinding spindle	kW	7.5	7.5	15	5.5
Max Speed of grinding wheel	rpm	5000	3000	3000	3000
Max. tailstock sleeve travel	mm	30	40	40	40
Travel					
Max. X/Z axis travel	mm	300/500	300/1000	210/1500	260/650
X/Z axis rapid feed	m/min	12	12	12	10
Others					
Machining accuracy(Grinding roundness)	μm	2	2	2	0.8
Machine size(L×W×H)	mm	3800×3300×2200	4000×2000×1800	4600×2000×1800	2000×1600×1900
Weight	kg	6000	7000	8000	6200

# MKG200 CNC Taper Grinder



## Grinding spindle inner-outer-taper

- The machine can compound grinding inner hole, cylindrical, taper for different kind spindle.
- T type natural granite bed stand, it is good vibration attenuation.
- 4-postion turntable with different type grinding wheel .
- Head stock swing angle +25°/-5° for grinding taper.

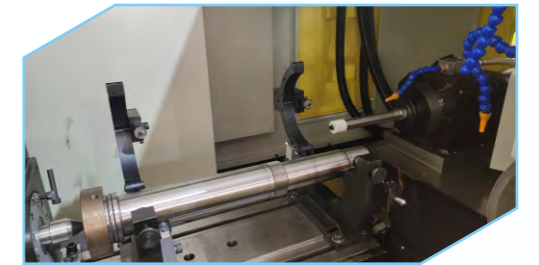


## STANDARD CONFIGURATION

- Siemens 828D control system
- External grinding wheel spindle
- Internal grinding wheel spindle
- Grinding fluid filtration system
- Automatic lubrication system
- Electric air-condition cabinet
- Spindle coolant system
- Heidenhain scales X axis
- Oil mist absorber
- Steady rest
- Measuring probe



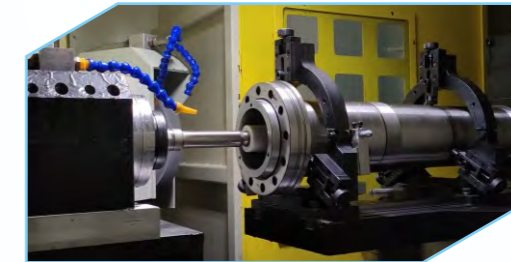
Grinding outer



Steady rest support



Grinding motor spindle



Grinding internal taper

## TECHNICAL SPECIFICATION:

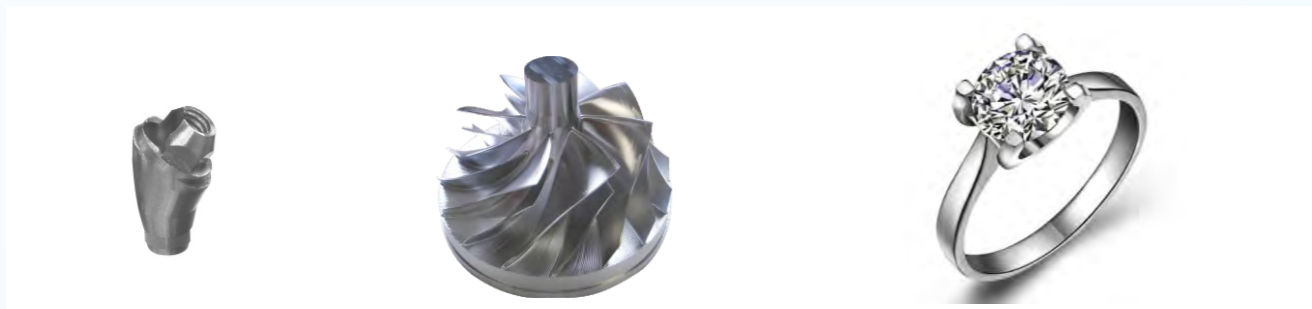
Model	MKG200		
Capacity	Max. clamping part length	mm	550
	Max. support diameter of central	mm	Φ200
	Min. Grinding inner hole	mm	Φ20
	Max. Workpiece weight	kg	≤200
Accuracy	Roughness	um	≤Ra0.4
	Taper runout	mm	≤0.0015
Axis(X/Z)	Machine travel	mm	X:400/Z:350
	Rapid movement speed	mm/min	10
A axis	Power	kW	2.2
	Positional accuracy	second	±10
External grinding wheel spindle	Speed	rpm	3500
	Spindle power	kW	5.5
	Installation of the grinding wheel		Φ400×32×Φ127
Internal grinding wheel spindle	Speed	rpm	36000
	Spindle power	kW	11(S1)
	Spindle mounting outside diameter		Φ150
Turntable	Turntable station		4
	Repeated positioning accuracy	Second	±1
Other	Power	KVA	35
	Volume (L×W×H)	mm	3350×2100×2300
	Total weight	kg	9000

# HF205S

## 5-axis Turning- milling center

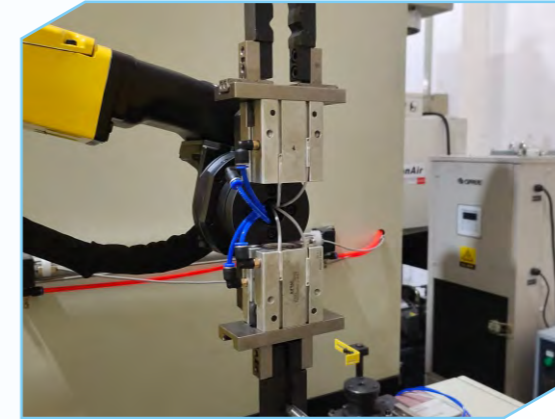


- The machine has the function of five-axis linkage and tool tip following to realize pentahedron processing.
- One time clamping workpiece to complete turning, milling processing, can be used for disk type, short bar parts processing such as rings, teeth, cutting tools, impeller and other complex parts.
- The system is equipped with grinding module, which can realize precision grinding.



### STANDARD CONFIGURATION

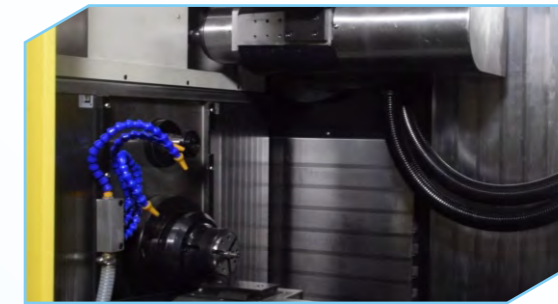
- Siemens 840DSL control system
- Siemens X/Z axis motor and driver
- 16T magazine tool
- Cutting fluid filtration system
- Oil cooler of spindle
- Compressed air dryer
- Oil mist absorber
- Automatic lubrication system
- Cabinet air condition



Automatic loading by robot



High speed for milling process



Automatic exchange tool system

### TECHNICAL SPECIFICATION:

Model		HF205S
Capacity		
Maximum rotation diameter	mm	Φ140
Maximum machining length	mm	160
X/Y/Z axis	mm	170/500/500/
A shaft Angle	deg	0-120
X/Y/Z rapid speed	m/min	16
Spindle		
Through hole diameter of workpiece spindle chuck	mm	Φ22
Maximum speed of workpiece spindle	rpm	6000
Maximum speed of tool spindle	rpm	30000
Tool spindle taper hole form		HSK E40
Other		
Tool handle form		HSK E40
Number of tool positions in tools storage	Qty	16
Machine Tool Dimensions L/W/H (approx.)	mm	3202/2206/2785

# XF300 CNC Whirling Machine



## Milling Worm Profile

- The machine is professional to mill worm part , it is better efficiency and surface finish for process.
- Workpiece Surface roughness can get Ra 0.4-1.0 um after milling.
- Turret have high rigidity whirling milling with 5 tools , A axis swinging angle is 0°~18° .
- Siemens motor spindle install round encoder, improve control precision.
- Tool follow drawing to install standard or forming insert for making thread.



### STANDARD CONFIGURATION

- Siemens 828D control system
- Siemens motor spindle
- Internal milling cutter 5T turret
- Cooling system
- Cabinet heat exchanger
- Automatic lubrication system
- Hydraulic collet
- Hydraulic tailstock
- Enclose guard
- Working lamp
- Chip conveyor



Internal whirling with 5- insert



Hydraulic tailstock



A axis swing angle 0°~18°



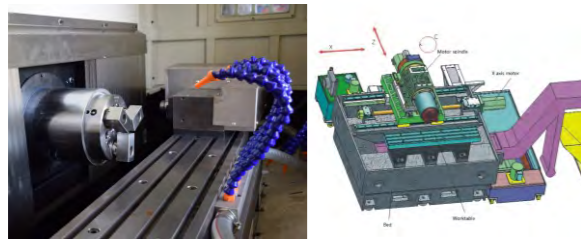
Surface roughness Ra 0.4-1.0um after milling

### TECHNICAL SPECIFICATION:

Model	XF300	
Capacity		
Max. milling length	mm	250
Max. workpiece length	mm	320
Max. machining diameter	mm	60
Spindle		
Workpiece spindle power	kW	10
Workpiece spindle speed	rpm	0-100
Travel		
X/Z1/Z2 axis travel	mm	100/250/250
X/Z axis rapid feed	M/min	15/15
X/Z axis positioning accuracy	mm	0.01
X/Z axis repeatability positioning accuracy	mm	0.006/0.01
Turret		
Number of tool	pcs	5
Max. spindle speed	rpm	1500
Swivel angle		0°~18°
Others		
Machine size(L×W×H)	mm	2400×2550×2540
Weight	kg	3800

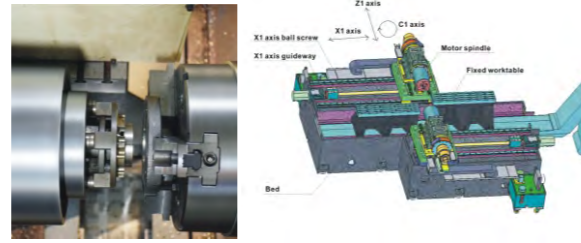
# Turn-Mill Center

**HF301**



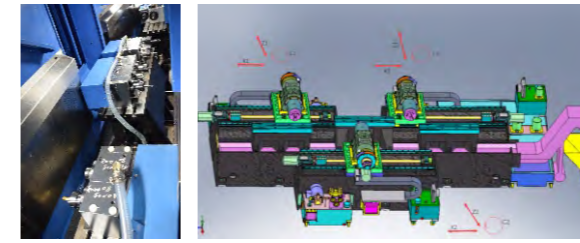
**1- spindle**

**HF302**



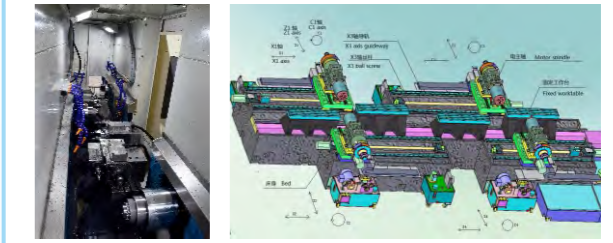
**2- spindle**

**HF303**



**3- spindle**

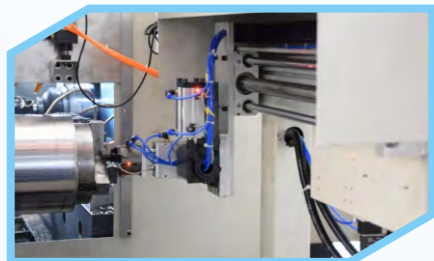
**HF304**



**4- spindle**

## Multi-spindle work for complex process

- Multi-spindle in order space butt joint.
- The workpiece machining process time is average for every spindle.
- Multi-module controllinkage working.
- Take advantage of CNC program technology to transfer workpiece between the spindle Smart tool management technology: the system will warn automatic alarm when the tool wear.



Clamping workpiece



Unclamping workpiece

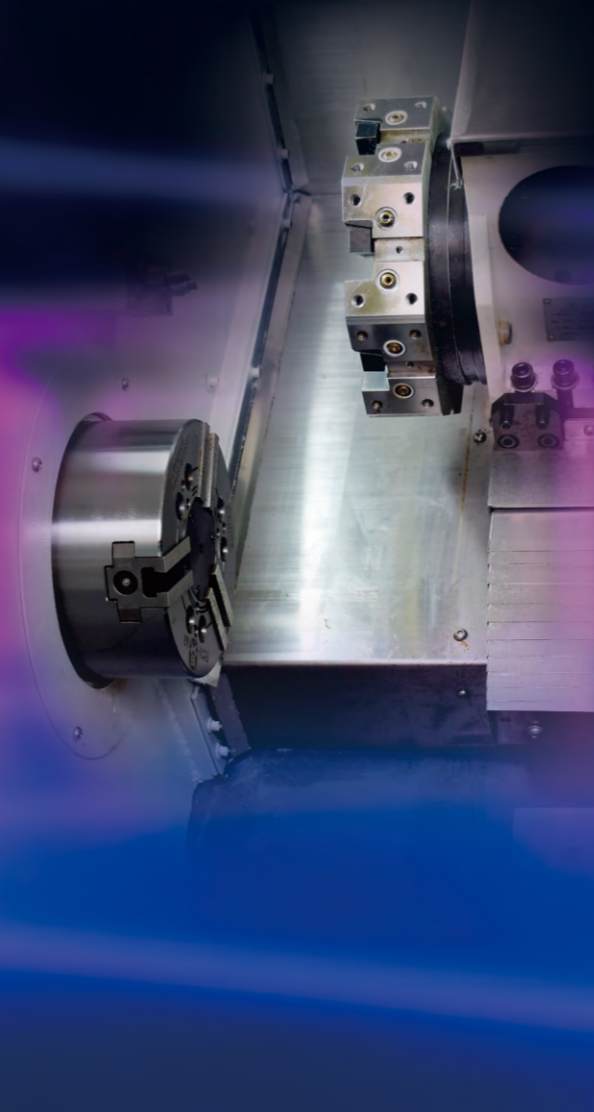


Conveyor belt

## TECHNICAL SPECIFICATION:

Model		HF301	HF302	HF303	HF304
Capacity					
Max.turning diameter over bed	mm	Φ600	Φ600	Φ600	Φ600
Max.turning diameter over support	mm	Φ160	Φ160	Φ160	Φ160
Max.machining length	mm	200	200	150	150
Spindle					
Number of spindle	mm	1	2	3	4
Spindle bore with draw-tube	mm	Φ52	Φ35	Φ35	Φ35
Max.spindle speed	r/min	5000	4500	4500	4500
Distance of spindle center to support	mm	80	80	80	80
Power of spindle motor	kW	7.5	7.5	7.5	7.5
Travel					
X/Z axis travel	mm	750/200	1100/200	1100/200	1000/200
Others					
Weight	kg	5000	7000	10000	14000
Machine size(L×W×H)	mm	2020×1900×1927	4000×305400×1800	6000×3054×1800	8000×3054×1800

# AL320T CNC Lathe Machine



## Slant bed with Turret / Power head

- It is high rigidity 45° slanted casting bed and triangle head stock for user-friendly design.
- Two axis move by the linear guide way.
- High-power servo spindle motor.

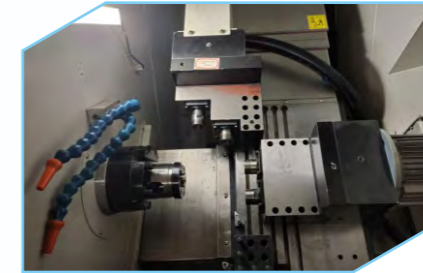


### STANDARD CONFIGURATION

- GSK988T control system and AC servo motor
- Hydraulic 3-jaw chuck
- Cooling system
- Automatic lubrication system
- Cabinet heat exchanger
- Enclosed guard
- Hydraulic tailstock
- 8-station servo turret



8-station servo turret



Power head as customized choice



Customized fixture

### TECHNICAL SPECIFICATION:

Model		AL320T	AL320P
<b>Capacity</b>			
Max. turning diameter over bed	mm	Φ320	Φ320
Max. turning diameter over support	mm	Φ120	Φ120
Max. machining length (shaft type)	mm	250	250
<b>Spindle</b>			
spindle bore without draw-tube	mm	Φ52	Φ52
spindle bore with draw-tube	mm	Φ42	Φ42
Max. spindle speed	rpm	3500	4500
Power of spindle motor	kW	5.5/7.5	5.5/7.5
<b>Travel</b>			
X/Z axis motor	Nm	8/12	8/12
X/Z axis rapid feed	m/min	18	12
X/Z axis travel	mm	180/300	400/250
<b>Tailstock</b>			
Diameter of quill	mm	90	/
Tailstock quill stroke	mm	115	/
Travel of Tailstock	mm	280	/
Tailstock taper		MT3	/
<b>Others</b>			
Type of tool post		Tool turret	Gang tool post
Number of tool	Qty	8	6-8
Size of tool	mm	25×25/Φ30	25×25/Φ30
T-slot			10×16×7
Hydraulic chuck	inch	6/8	6/8
Total power	kW	14	10
Machine size(L×W×H)	mm	1950×1340×1620	1950×1340×1620

# AL50TY CNC Lathe Machine



## Slant bed with turret with live tool

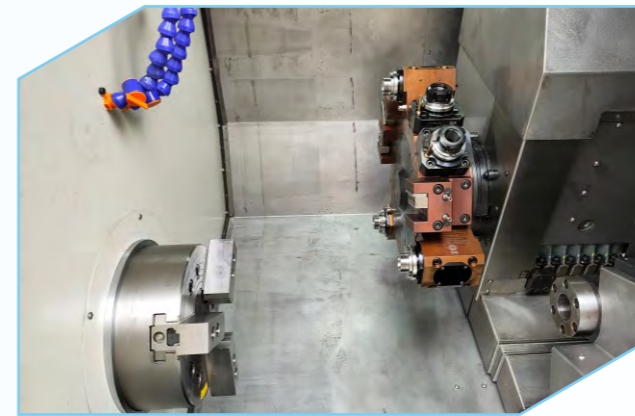
- It is high rigidity 45° slanted casting bed and triangle head stock for user-friendly design.
- Two axis move by the linear guide way.
- High-power servo spindle motor.



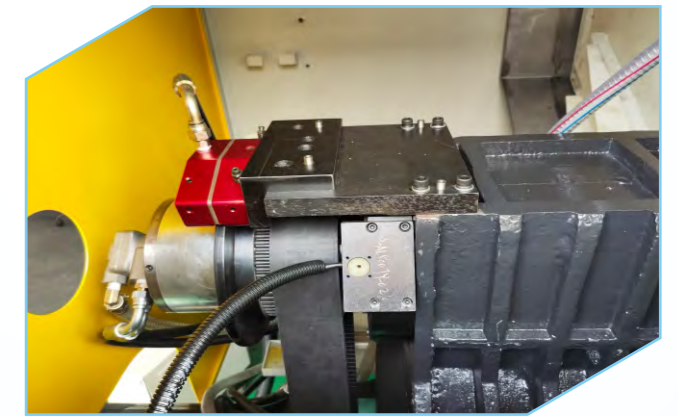
## STANDARD CONFIGURATION

- GSK988T control system and AC servo motor
- Hydraulic 3-jaw chuck
- Solid hole rotary cylinder
- Cooling system
- Automatic lubrication system

- Cabinet heat exchanger
- Enclosed guard
- Hydraulic tailstock
- 12-stationservoturret



12-station servo turret



Belt drive 11 kw spindle motor

## TECHNICAL SPECIFICATION:

Model	AL50TY	
Capacity		
Maximum rotary diameter	mm	Φ500
Maximum machining length	mm	500
Spindle through hole diameter	mm	Φ62
Maximum rotary diameter	mm	Φ52
X/Y/Z travel	mm	220/100/500
The X/Y/Z rapid	m/min	24
Center height	mm	145
Spindle		
Spindle motor power	--	11
Spindle turing speed	rpm	3500
The spindle taper hole	--	A2-6
Other		
Number of power head	Qty	8~12
Machine size(L/W/ H)(approx.)	mm	2666/1731/2380



# AM1540/I560

## Gantry Type Vertical Machine Center

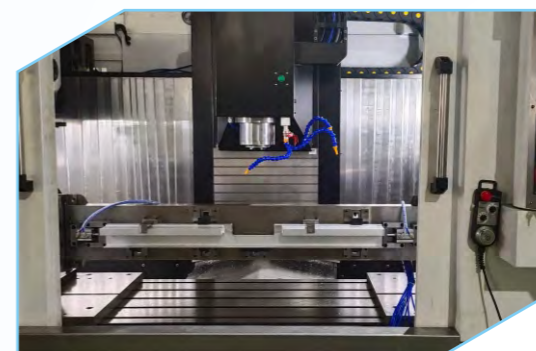


- This machine can finish process for milling ,drilling ,tapping .
- The worktable loading 600kg workpiece and longer X axis for 1500mm travel .



### STANDARD CONFIGURATION

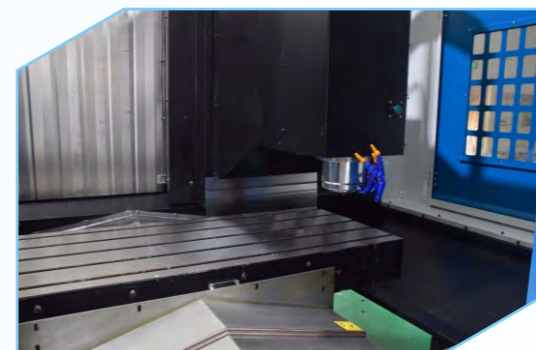
- GSK218 control system
- Automatic lubrication system
- Cooling system
- Cabinet air condition
- Automatic chip
- 24T magazine tool



4th axis turntable



24T magazine tool



X axis can travel 1500mm



Gantry type design

### TECHNICAL SPECIFICATION:

Model		AM1540	AM1560
Capacity			
Table size	mm	1600×500	1600×600
Max loading weight of table	kg	600	600
Distance from spindle center to guide way	mm	460	660
Distance from spindle end face to table	mm	100-500	100-600
Number of tool	Qty	24	24
X/Y/Z axis travel	mm	1500/400/400	1500/600/500
X/Y/Z axis rapid speed	m/min	30	30
Spindle			
Max. spindle speed	rpm	8000	8000
Spindle taper	/	BT40	BT40
Other			
Machine weight	kg	7200	8000
Machine size	mm	3500×2250×2500	3500×2900×2700



# AM520F-16 Multi-spindle VMC

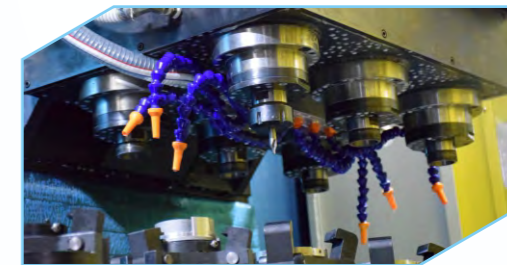
## Automatic Turss Hand Transfer

- 16-spindles drilling and milling work together, 4x4 spindle array type (Optional tapping function).
- Electric Rotary table, one side loading workpiece, one side machining (optinal automatic loading -unloading).
- Product in: compressor bearings, cylinder, linear guide slider, car connecting rod, bathroom faucet for small and medium size parts.



### STANDARD CONFIGURATION

- GSK218 control system
- Automatic lubrication system
- Cooling system
- Cabinet air condition
- Automatic chip
- Hydraulic rotary table



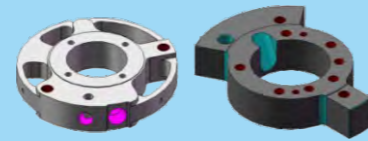
### TECHNICAL SPECIFICATION:

Model	AM520F-16	
Capacity		
Worktable size	mm	1000×600
Max. loading worktable	kg	400
Rotary table with equaling type	mm	2
Spindle		
Spindle nose to table distance	mm	125-525
Spindle center to column guideway distance	mm	430+140+140+140
Number of spindle		16
Spindle mount		ER40
Drilling diameter	mm	16
Power of spindle motor	kW	11
Max.spindle speed	rpm	3500
Spindle arrangement		4*4
Travel		
X/Y/Z axis positioning accuracy	mm	±0.015
X/Y/Z axis repeatability positioning accuracy	mm	±0.01
X/Y/Z axis travel	mm	200/560/400
X/Y/Z axis rapid feed	m/min	16/16/10
Other		
Weight	kg	6500
Machine size(L×W×H)	mm	1500×3100×2800

## Turn-Mill complex product line



Compressor parts project

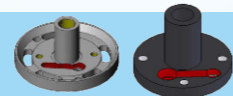


Multi-spindle turn-mill center automatic line

## Bangladesh crankshaft machining line



GREE Flange Machining Line



## Precision grinding solution

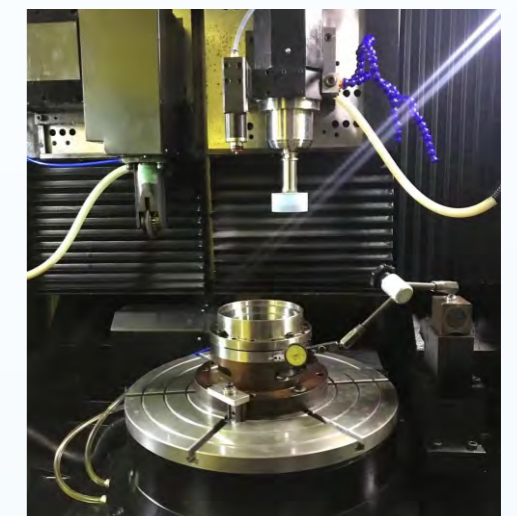
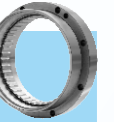


Motion and reducer industry

### THK Motion Grinding Line



## Gear housing grinding for robot



## Ball screw and nut grinding thread solution

