

CNC Sphere Grinding Machine

Technical parameter

Item		Unit	SMG 32 H	SMG 63 H	SMG 100 H	
Stroke range	X-axis travel	mm	300	400	500	
	Y-axis travel	mm	200	200	300	
	Z-axis travel	mm	250	300	400	
Spindle	Max. spindle speed	rpm	4000	3000	1500	
	Spindle taper bore		1:5	1:5	1:5	
	Distance from spindle center to floor	mm	200 400	220 420	250 550	
Feed speed	Rapid feed X/Y/Z	m/min	8/18 20	8/18 20	8/18/20	
Worktable	Table size	mm	Φ320	Φ550	Φ800	
	Max. loading capacity	Kg	350	800	3000	
	Max. table speed	rpm	33.3	33.3	11.1	
Cutting capacity	Outside diameter range of sphere	mm	Φ90 Φ320	Φ320 Φ630	Φ630 Φ1070	
	Sphere through hole		2 8	8 16	16 28	
Machine accuracy	Positioning accuracy	Y	mm	0.008	0.008	0.008
		Z	mm	0.008	0.008	0.008
	Repeatability	Y	mm	0.004	0.004	0.004
		Z	mm	0.004	0.004	0.004
Power of servo motor	Main motor	kW	11/15	15/18.5	18.5/22	
	AC Servo motor in Y/Z axis	kW	3.3/3.3	3.3/4.87	4.87/4.87	
NC system			SIEMENS 802D	SIEMENS 802D	SIEMENS 802D	
Machine power source	Electrical source	KVA	20	30	35	
	Air pressure	bar	5 7	5 7	5 7	
Machine size	Machine height	mm	2500	2500	3000	
	Floor space	M ²	14	16	25	
	Weight of machine	Kg	5000	6000	8000	



No.69 Xunyangjiang road,suzhou neway district,R.P. China
 Post : 215153
 sale tel: 0512-6607-0166
 Fax: 0512-6607-1116
 E-mail: cncsale@neway.com.cn
 Website: www.newaycnc.com
 Online MSN: cncsale@neway.com.cn

Agency:

NEWAY CNC EQUIPMENT

Cat.No.:E-SMG 2010-01



SMG Series CNC Sphere Grinding Machine is a new type machine. The surface grinding can be automatic continuously finished during one set-up. The machine is suitable to sphere precision grinding. T-type structure is applied to the base and frame-type structure is applied to the column, they ensure high strength and high rigidity. The original creation brand-new structure design has obtained national patent.

The product possess perfect performance, and all accuracy are higher than national standard.



Workpiece is fixed reliably and steadily on the worktable perpendicularly, it avoids deformation of clamped point caused by gravity during sphere machining horizontally, improves load condition of turning part bearings during horizontal machining, so the useful life of bearing and machine accuracy can be improved greatly. This advantage is more obvious when grinding large sphere.

Tooth belt transmission spindle
Feed transmission is driven by servo
Motor ball screw
Full enclosed guarding

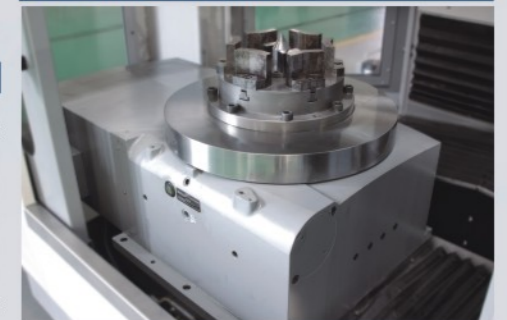
The product has strong rigidity, high stability and high reliability, can meet high effective grinding of $\phi 90 - \phi 1070$ sphere, the rapid traverse of feed axis is not less than 18m/min.

T-type structure is applied to the base and frame-type structure is applied to the column, they ensure high strength and high rigidity.

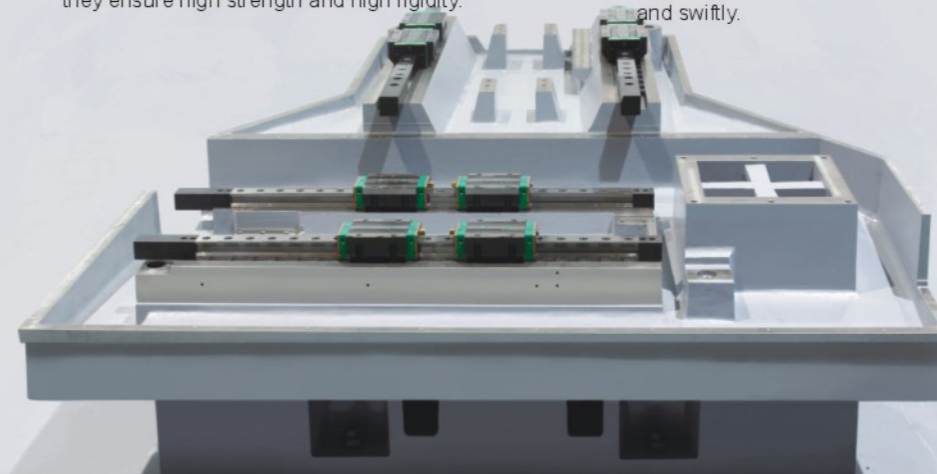
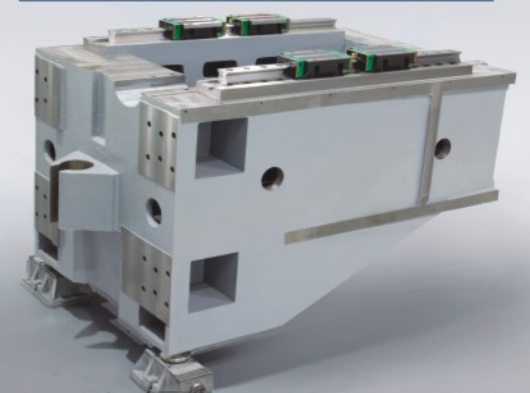
Unique fixture design

The fixture is an adjustable limit equipment. As to a specific sphere, after the adjustable block is adjusted properly, the machine can accomplish automatic clamping when workpiece is suspended to the fixture, makes the fixing convenient and swiftly.

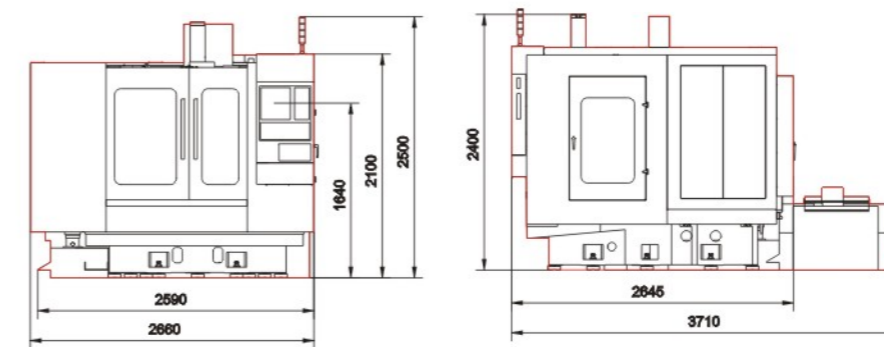
CNC rotary worktable



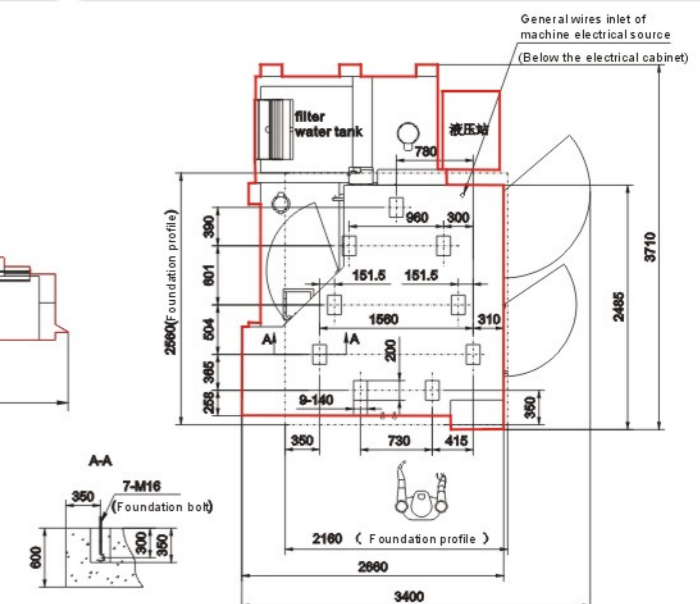
Strong rigidity frame-structure column



Shape dimension



Foundation layout



Note: the above drawing is for SMG63H dimension

SMG series CNC sphere grinding machine
Domestic original structure design

The machine is consisted of bed, column, headstock, slide base and CNC rotary worktable which is fixed on the slide base. Workpiece is fixed on the worktable and rotates along with the worktable. Sphere grinding is accomplished through rotation movement of worktable and wheelhead that is installed on the spindle.

