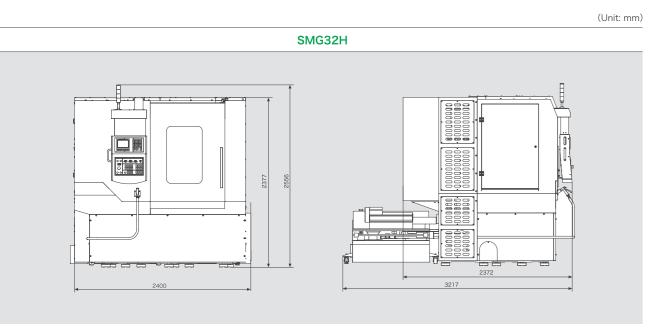
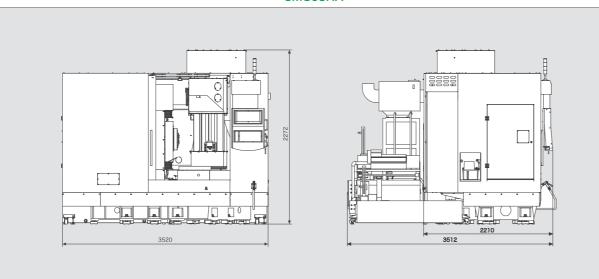
	Item	Unit	SMG32H	SMG63HA	SMG100H	SMG240H
	Machining sphere outside diameter range	mm	ЅФ75∼320	ЅФ320∼630	ЅФ630-1100	ЅФ900-2400
Capacity	Hole diameter in machined sphere	inch	2"~8"	8"~16"	16"~28"	24"~64"
	Motor power	kW	15	15/18.5	28	80
Grinding wheel spindle	Rated torque	N.m	96	98	267	1910
	Max. spindle speed	rpm	6000	2000	1500	500
	Motor power	Kw	3.7	5.5	7.5	55
Workpiece spindle	Rated torque	N.m	24	36	49	709.8
	Max. spindle speed	rpm	60	30	15	10
Travel	Y/Z	mm	200/500	200/500	400/900	800/2000
Rapid travel speed	Y/Z	m/min	18/20	12/20	16/16	6/4
	Positioning accuracy (Y/Z)	mm	0.008/0.008	0.008/0.008	0.011/0.016	0.020/0.016
Accuracy	Repeatability accuracy (Y/Z)	mm	0.004/0.004	0.004/0.004	0.006/0.009	0.012/0.009
Other	CNC system	-	SIEME	NS 828D/FANUC C)i-TF(G)	SIEMENS 828D
Otner	Machine weight	kg	6000	7500	22000	85000

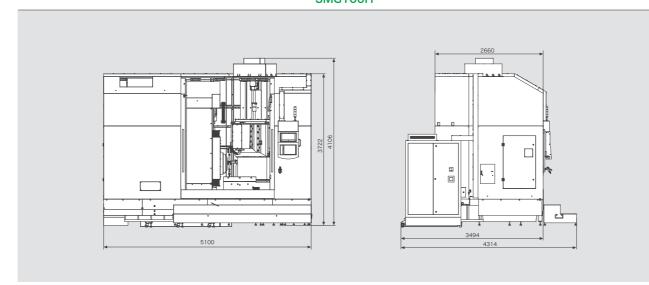
External Dimensions



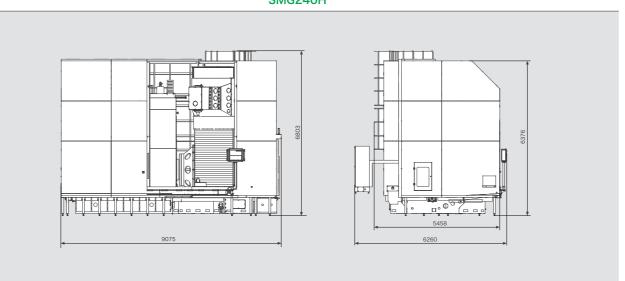
SMG63HA



SMG100H



SMG240H



Industry Application

This series of machine tools is particularly suitable for the grinding of balls in the field of ball valves. Ball valves are one of the important valve types and are widely used in petrochemical, long-distance pipeline, power generation, papermaking, nuclear power, aerospace and other industries.



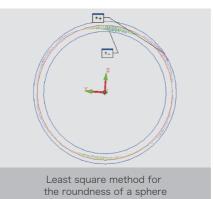




Sphere Detection







finishing Ra≤0.4 μm

NEWAY CNC EQUIPMENT(SUZHOU) CO.,LTD

No 69 Xunyangjiang Road, Suzhou New District, P.R.China Tel: 86-512-6239 2186 Fax: 86-512-6607 1116 E-mail: cncsale@neway.com.cn www.newaycnc.com

NEWAY CNC (USA),INC.

9757 Stafford Centre Drive Strafford, Texas 77477 USA Tel: +1 281-969-5800 Fax: +1 281-969-5903 www.newaycnc.us

www.newaycnc.com

CREATION FOREVER

CNC Ball Valve Grinding Machine

W NEWAY



Cat.NO.; E-SMG-2020-01

SMG32H

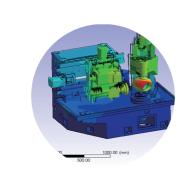
- This model is rigid and high accuracy for small size spherical surface;
- Closed column, triangular tailstock and bracket structure ensure the overall rigidity of the bed;
- The workpiece is tight by servo-driven, the layout is reasonable and advanced, the machine tool has good rigidity, easy to operation;
- This machine is suitable for grinding of 75-320mm size ball.



Structure Layout:

The forward and backward movement of the column- Z-axis The headstock moves up and down -Y-axis

The tailstock moves up and down- V-axis movement (servo control) The rotary motion of the table- B axis



Ball Grinding Range: SΦ75-320mm

Max. Workpiece Weight: 350kg

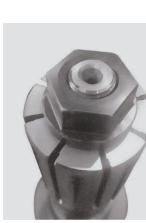
Grinding Accuracy:

Roundness at sealing round cross section ≤0.008mm

Surface Roughness:

Ra≤0.4um





SMG63HA

Utility model patents:

High rigidity compact machine tool base structure Patent Number: 201120517142.7

- This model adopts the "Fan Cheng" grinding method;
- adopts vertical clamping;
- Modular design, spherical diameter grinding from 320-630mm; • This machine is suitable for grinding of 75-320mm size ball;
- Machine statics and modal analysis to ensure the overall
- Easy operation, easy to access to the workpiece and spindle.



Structure Layout:

The Left and right movement of the column- Z-axis The headstock moves up and down -Y-axis

The tailstock moves up and down- V-axis movement (servo drive) The rotary motion of the table- B axis



Ball Grinding Range:

SФ320-630mm Max. Workpiece Weight:

800kg **Grinding Accuracy:**

Surface Roughness:

Ra≤0.4um

Roundness at sealing round cross section ≤0.010mm





SMG100H

Utility model patents:

Radial adjustable device for center position of center Patent Number: ZL2018 2 1314137.4

- This model adopts the vertical clamping of the sphere to avoid the Deformation caused by gravity due to horizontal
- High-power, high-precision grinding spindle unit and precision CNC rotarytable to ensure the high precision of the whole
- Standard equipped with mist suction device, high-precision rotary table, double top positioning fixture.



SMG240H

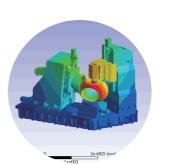
- This model adopts L-shaped bed, closed column, triangular tailstock and stepped bracket to ensure the overall rigidity and compact structure of the bed;
- Y-axis with hydraulic lock;
- V-axis with hydraulic lock;
- Workpiece is tight by hydraulic cylinder , and the pressure is adjusted according to the size of the sphere;
- Easy to operate.



Structure Layout:



The left and right movement of the carriage -Z axis The slide and the headstock -Y-axis The tailstock move moment -V-axis . The rotary motion of the table- B axis.



Structure Layout:

The forward and backward movement of the column-Z-axis The headstock moves up and down -Y-axis The tailstock moves up and down- V-axis movement (servo control)

The rotary motion of the table- B axis.



Ball Grinding Range: SФ900-2400mm

Max. Workpiece Weight: 25000kg

Grinding Accuracy: Roundness at sealing round cross section ≤ 0.025mm (24 " ~ 40 ")

Roundness at sealing round cross section ≤ 0.035mm(42 " ~ 64 ") Surface Roughness: Ra≤0.4um



	Abrasive	The ball material		
na	Carborundum	Carbon steel/Stainless steel		
ie .	Cubic boron nitride	Ni-based coating		
	Synthetic diamond	Tungsten DLC Coating		



Grinding Accuracy: Roundness at sealing round cross section ≤0.015mm

Surface Roughness: Ra≤0.4um

Ball Grinding Range:

Max. Workpiece Weight:

SФ630-1100mm

3500kg













