

SZGH



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CNC MACHINE TOOL CATALOG

Manufacturing Automation Upgrade Expert for Small and Medium Enterprises



Shenzhen Guanhong Automation Co., Ltd. (SZGH Group) is a professional industrial automation company specializing in CNC systems, industrial robots, CNC machine tools, and intelligent manufacturing solutions.

With production bases in Shenzhen and Dongguan, SZGH Group integrates R&D, manufacturing, sales, and technical services to provide efficient automation solutions for global industrial customers.

Our products are widely used in metal processing, machinery manufacturing, automotive parts, mold making, furniture production, hardware processing, and smart factory applications.

With years of experience in CNC and industrial automation technology, SZGH continuously invests in product innovation and intelligent manufacturing development. Our engineering team provides customized automation solutions to help customers improve productivity, reduce labor costs, and optimize production efficiency.

Through the coordinated development of the parent company and subsidiaries, SZGH has established strong capabilities in: CNC Technology Development, Industrial Robot Integration, Product R&D & Manufacturing, Quality Control & Technical Support, Overseas Customer Service, Automation Project Implementation.

CERTIFICATES & QUALIFICATIONS

SZGH products have been exported to Europe, South America, Southeast Asia, the Middle East, Central Asia, and other international markets. With reliable quality, competitive solutions, and professional technical support, we have built long-term partnerships with customers worldwide.

SZGH Group is committed to becoming a trusted global partner in industrial automation and smart manufacturing by delivering stable, efficient, and cost-effective CNC and robotic automation solutions.



SZGH

SZGH-36 Y axis
Side 4 turning milling compound machine



High efficiency



High precision



High stability



Scope of Application

Suitable for processing of bar material within 35mm and pellet material within 100mm.

Product Description

On the basis of the SZGH-36 CNC lathe, 4 power heads on the Y-axis side are installed to realize the turning-milling compound function of 6 rows of cutters and 4 side milling, which is widely used in the processing of workpieces that require drilling, tapping, and slotting on the side. Because the one-time clamping is completed, the error of the second clamping is overcome, and at the same time, due to the increase in processing time and the combination of processing procedures, it is more suitable for one person to manage multiple machines, saving labor and improving automation and processing accuracy.

Product Features

1. Using Anti-deformation patented heavy-duty base, it is heavy enough to support fast the high-speed and stable movement of the driving head.
2. The weight is enough to support the anti-vibration and improve the accuracy and smoothness during bar machining.
3. The key components adopt high-quality wear-resistant configurations such as Taiwan, and the spindle installation is all dynamically balanced.
4. Adopting SZGH electric control package to make electromechanical cooperation play the best efficiency.

Technical Parameters

Project		Unit	Standard value	Max value
Processing Capacity	Max. Bar Thru-hole Dia. (Collet)	mm	35	-
	Max. Single-Piece Billet Diameter (Chuck)	mm	250	300
	Max. length of workpiece	mm	210	230
	Cutting amount of stainless steel on one side	mm	2	3
	Machining accuracy of the workpiece	mm	±0.01	-
	Surface roughness	Ra	1.6	-
	the height of center tool holder	mm	40	-
	Turning Diameter	mm	400	-
Travels	Square Knife Specifications	mm	16x16	-
	X-axis effective travel	mm	600	-
	Z-axis effective travel	mm	240	-
Y-axis	Y-axis mode	-	side 4 power head	-
	Y-axis travel	mm	140	-
	Y-axis power head clamping type	-	ER16	-
	Y-axis maximum speed	rpm	2500	4000
	Y-axis rapid traverse speed	m/min	15	-
Feed	Maximum drill diameter	mm	20	-
	X-axis rapid traverse	m/min	25	30
	Z-axis rapid traverse	m/min	25	30
	X-axis servo-motor power	kW	1.2	-
Spindle	Z-axis servo-motor power	kW	1.2	-
	Max.Spindle Speed	rpm	3500	4000
	Spindle Motor Power	kW	4	5.5
	Spindle nose taper	-	A2-4	-
Dimensions	Support hydraulic chuck size	inch	6	8
	Dimensions	mm	1750 x 1400 x 1800	-
	Total Weight	kg	1800	-
	Rotary cylinder center height	mm	1150	-

Machine tool specifications and component items		Specification	Standard	Optional
Part Specifications	Screw	25mm	Ball grinding precision grade	-
	Guide rail	25mm	H-class linear guide rail	-
	Bearing	7015/7013	Two-axis Harbin high-speed angular joint fusion bearing	-
	Spindle motor	4kW	Variable frequency drive type	4kW servo spindle
	Feed servo	1.2kW	SZGH Servo	-
	CNC Control	-	SZGH	SZGH
Machine specifications	Bed Type	30°	Slant Bed	-
	Base form	-	Heavy-duty anti-deformation patented base	-
	Clamping method	-	hydraulic clamping	-

The above configuration parameters are for reference,and the configuration listed in the price composition and physical acceptance shall prevail.

SZGH**SZGH-46 Y axis**

4+4 turning and milling compound machine



High efficiency



High precision



High stability

**Product Features**

1. Using Anti-deformation patented heavy-duty base, it is heavy enough to support fast the high-speed and stable movement of the driving head.
2. The weight is enough to support the anti-vibration and improve the accuracy and smoothness during bar machining.
3. The key components adopt high-quality wear-resistant configurations such as Taiwan, and the spindle installation is all dynamically balanced.
4. Adopting SZGH electric control package to make electromechanical cooperation play the best efficiency.

Technical Parameters

Project		Unit	Standard value	Max value
Processing Capacity	Max. Bar Thru-hole Dia. (Collet)	mm	45	-
	Max.Single-Piece Billet Diameter (Chuck)	mm	400	420
	Max. length of workpiece	mm	380	400
	Cutting amount of stainless steel on one side	mm	3	4.5
	Machining accuracy of the workpiece	mm	±0.0075	-
	Surface roughness	Ra	1.6	1.6
	the height of center tool holder	mm	50	-
	Turning Diameter	mm	530	-
Travels	Square Knife Specifications	mm	20 x 20	-
	X-axis effective travel	mm	930	-
Y-axis	Z-axis effective travel	mm	400	-
	Y-axis mode	-	side 4+ end 4 power head	-
Y-axis	Y-axis travel	mm	220	-
	Y-axis power head clamping type	-	ER25	-
	Y-axis maximum speed	rpm	2500	4000
	Y-axis rapid traverse speed	m/min	15	-
	Maximum drill diameter	mm	16	-
Feed	X-axis rapid traverse	m/min	25	30
	Z-axis rapid traverse	m/min	25	30
	X-axis servo-motor power	kW	1.5	-
	Z-axis servo-motor power	kW	1.5	-
Spindle	Max.Spindle Speed	rpm	3500	4000
	Spindle Motor Power	kW	5.5kw servo	7.5kw servo
	Spindle nose taper	-	A2-5	-
	Support hydraulic chuck size	inch	8	10
Dimensions	Dimensions	mm	2100 x 1500 x 1900	-
	Total Weight	kg	2800	-
	Rotary cylinder center height	mm	1150	-

Machine tool specifications and component items		Specification	Standard	Optional
Part Specifications	Screw	32mm	Ball grinding precision grade	-
	Guide rail	30mm	H-class linear guide rail	-
	Bearing	-	SZGH self-made high rigidity barrel spindle	-
	Spindle motor	5.5kW	Server host	-
	Feed servo	1.5kW	SZGH Servo	-
	CNC Control	Ac8F-G	SZGH	SZGH
Machine specifications	Bed Type	45°	Slant Bed	-
	Base form	-	Heavy-duty anti-deformation patented base	-
	Clamping method	-	hydraulic clamping	-

The above configuration parameters are for reference,and the configuration listed in the price composition and physical acceptance shall prevail.

Scope of Application

Suitable for processing of bar material within 45mm and pellet material within 100mm.

Product Description

On the basis of SZGH-46 CNC lathe, Y-axis 4+4 power head and 8-station servo turret are installed to realize the combined function of turning and milling with 8 tool ends 4+side 4.It is widely used in the processing of workpieces that require drilling, tapping, milling, etc. on the side and end faces. Since the processing is completed in one clamping, the error of the secondary clamping is overcome. At the same time, due to the increase in processing time and the combination of processing procedures, it is more suitable for one person to manage multiple machines, saving labor, and improving automation and processing accuracy.

POWER HEAD SELECTION



Flying cutter



End-one or side-one power head



End two or side two power head



Two power heads on both sides of the detachable end



End three power head



Side three power head



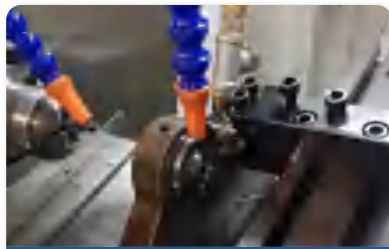
Terminal four power head



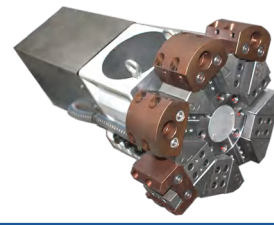
Four power heads on the Y axis side



Y axis 4+4 power head



Install the handpiece



Servo Turret



Hexagon punch

CNC DRILLING AND TAPPING CNC OPTIONAL

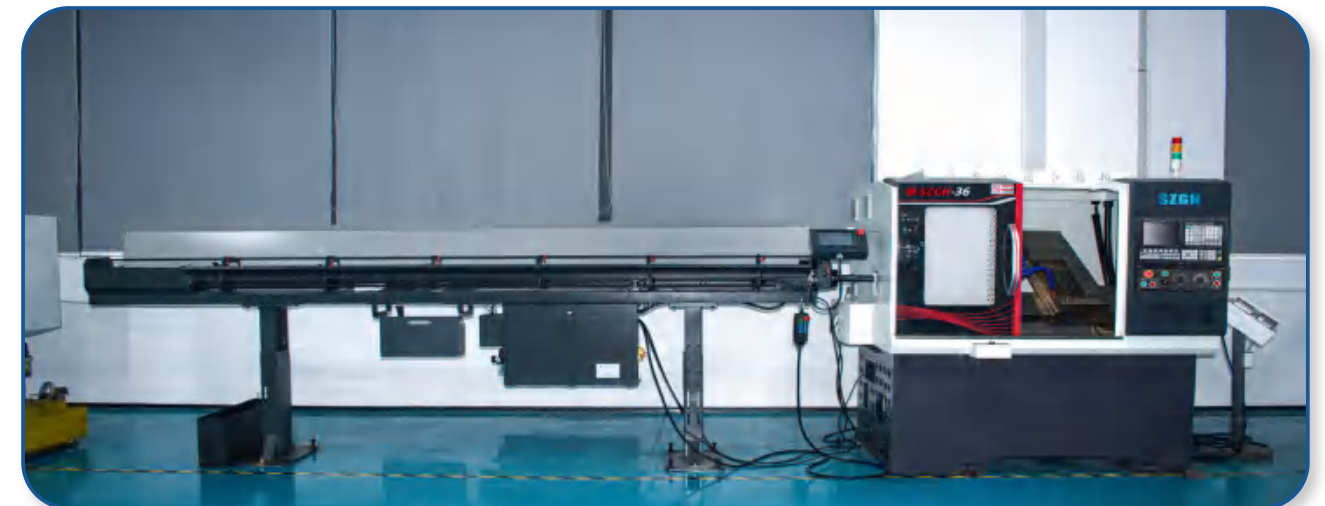


Add four axes



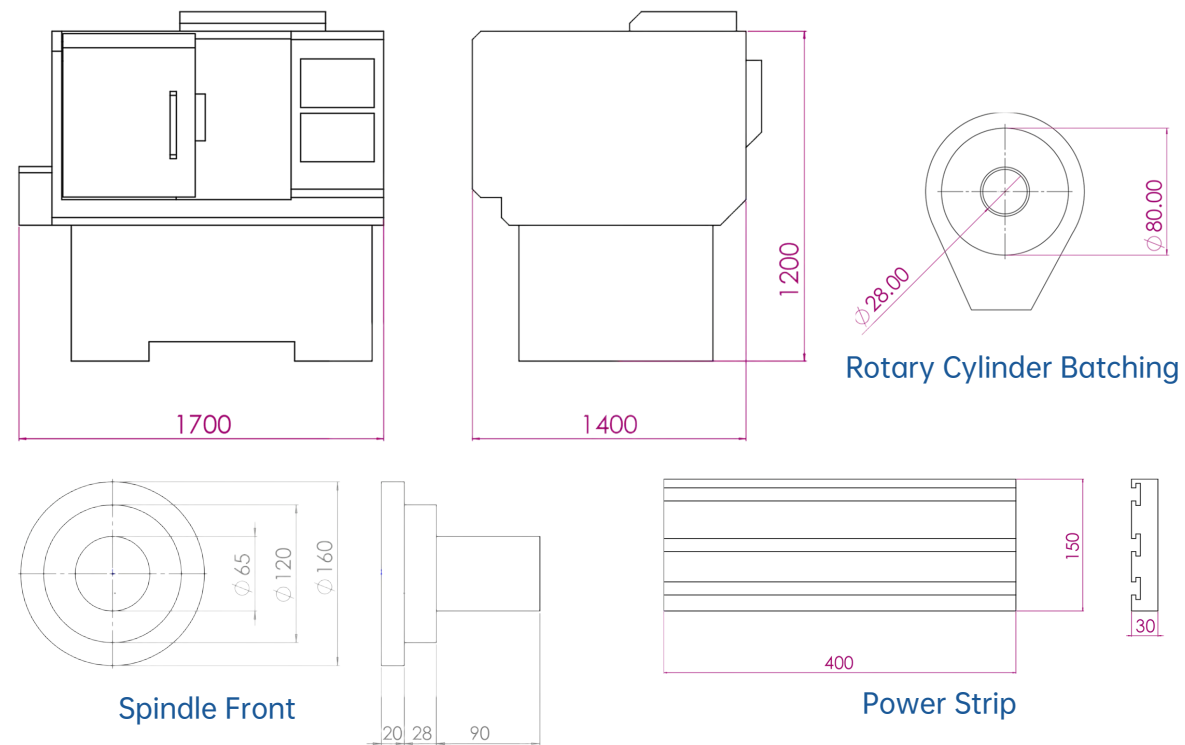
Install tail top four axis

FEEDING SELECTION

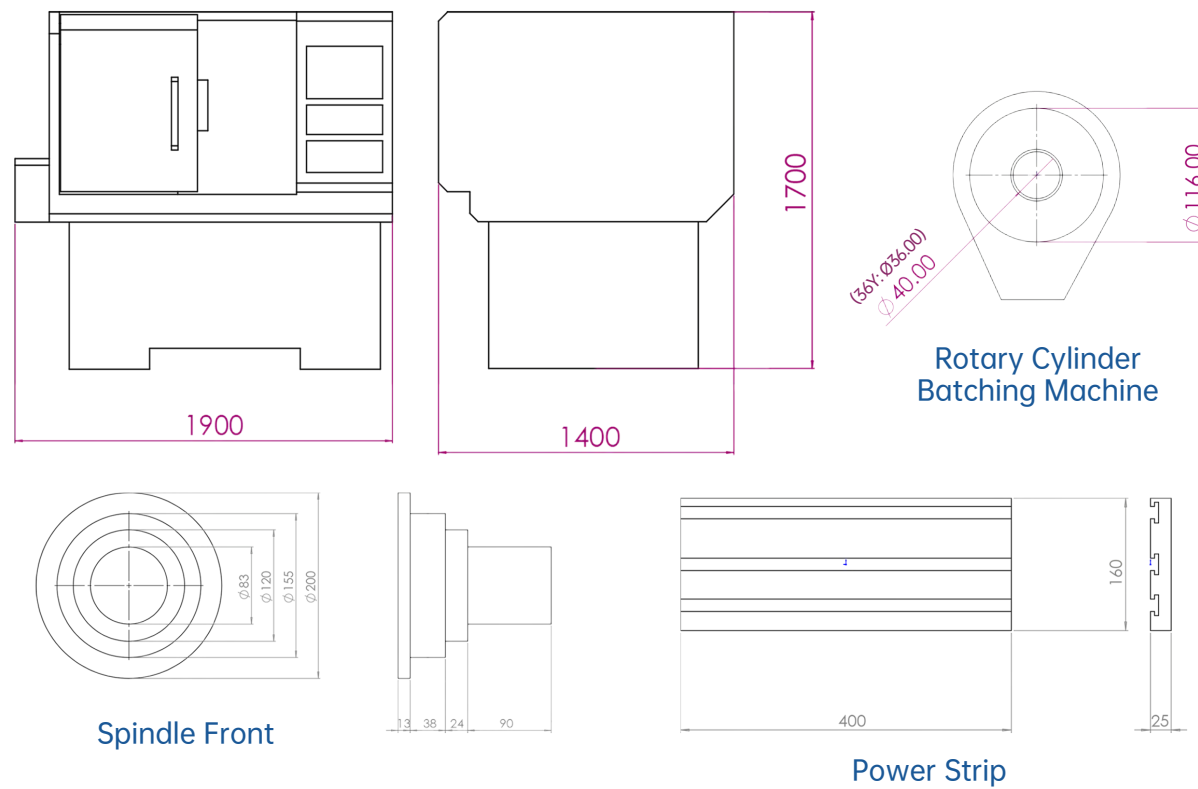


■ Dimensional Drawing of Lathe

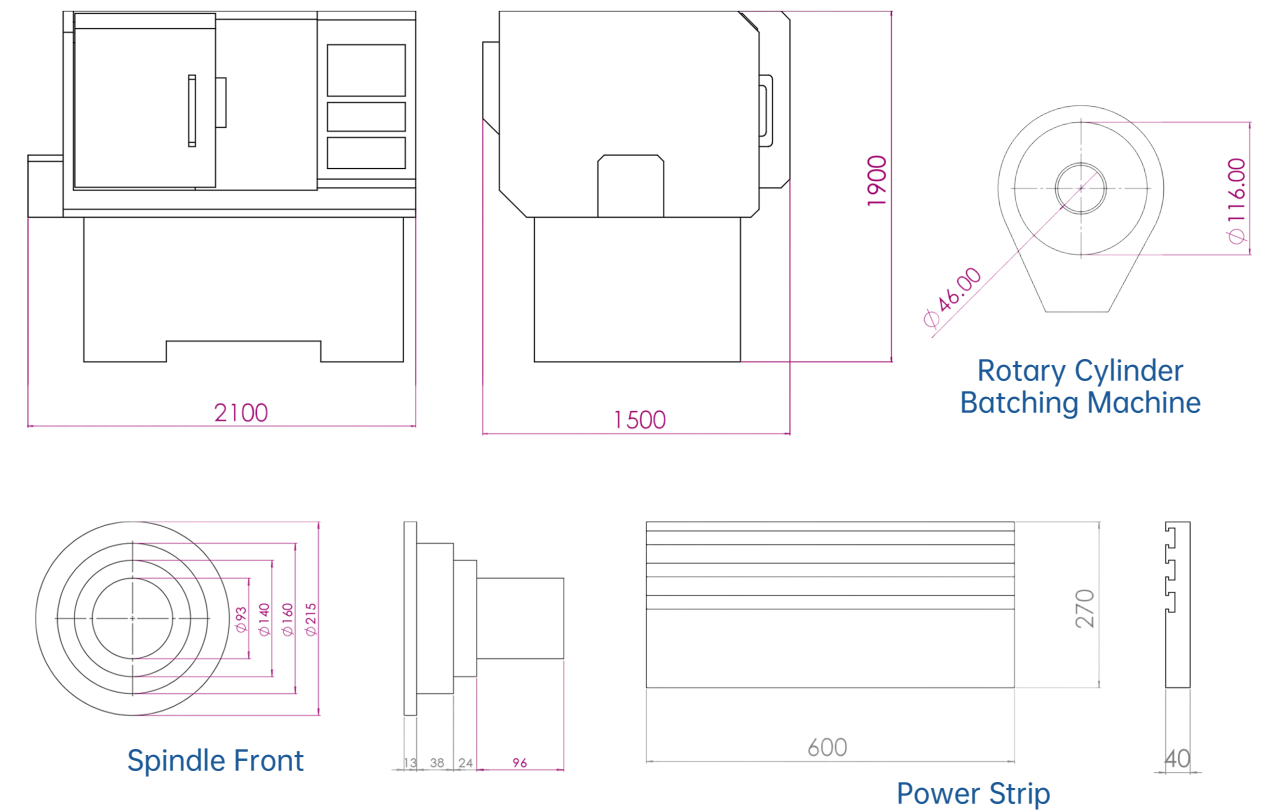
SZGH-25J



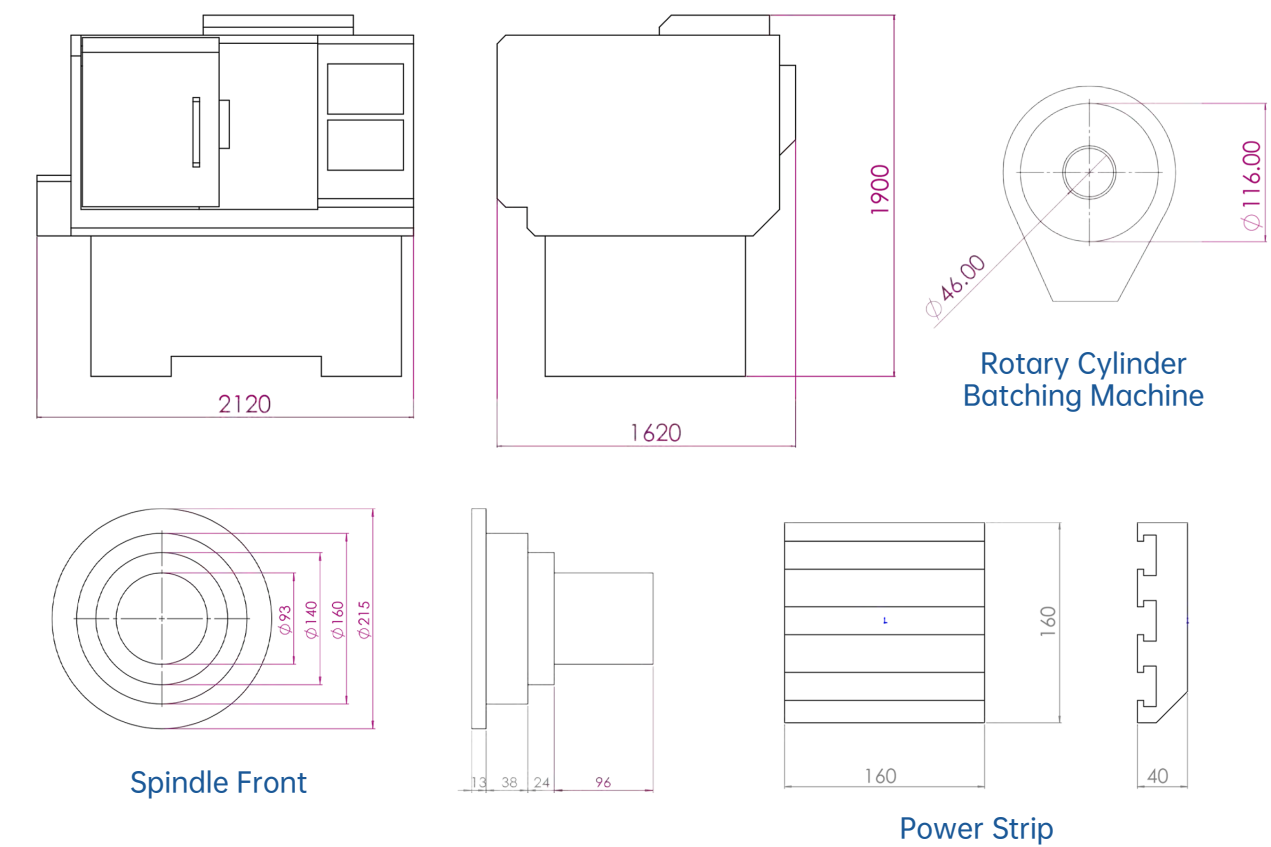
SZGH-36J/36Y



SZGH-46J

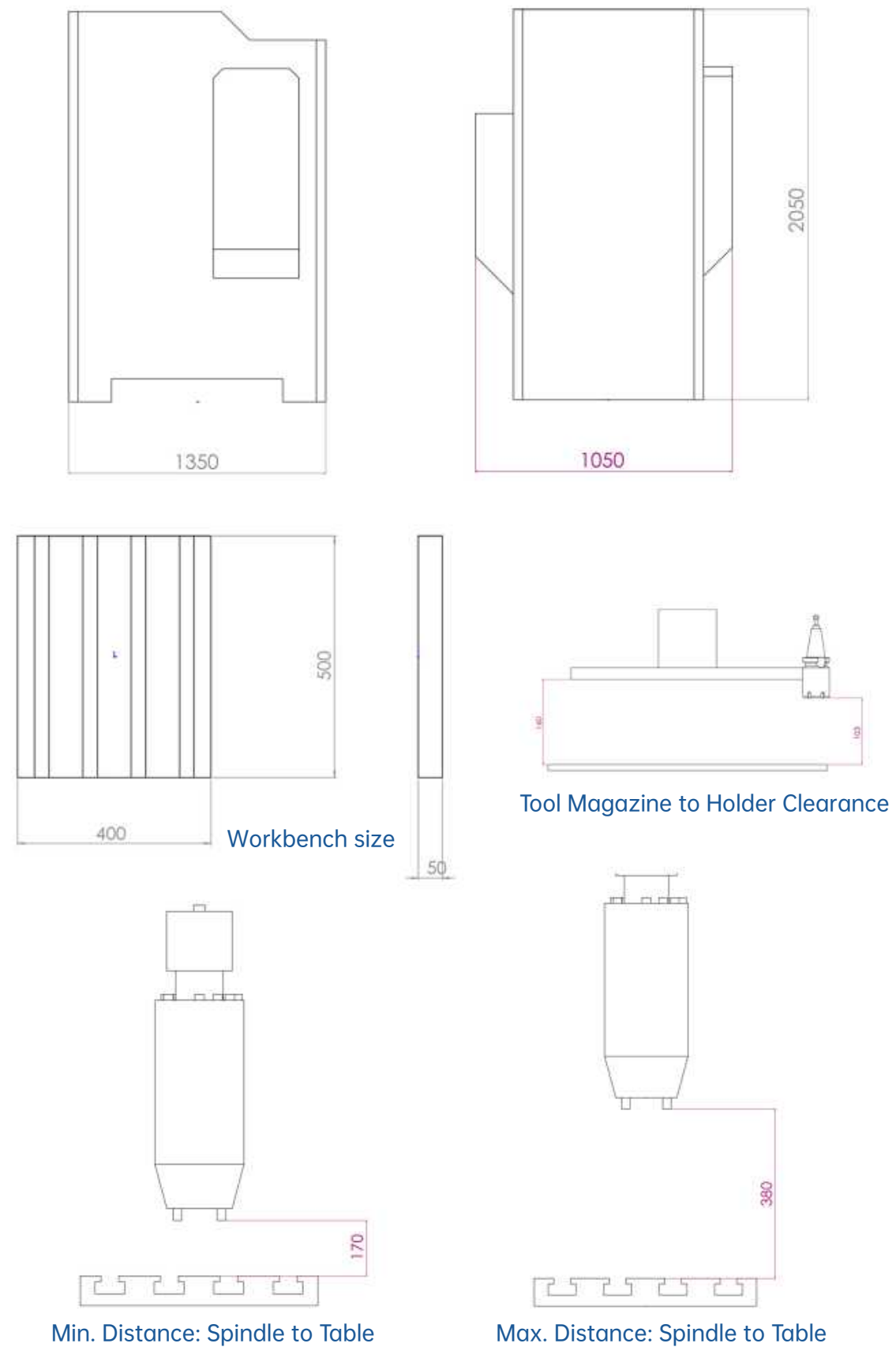


SZGH-46Y

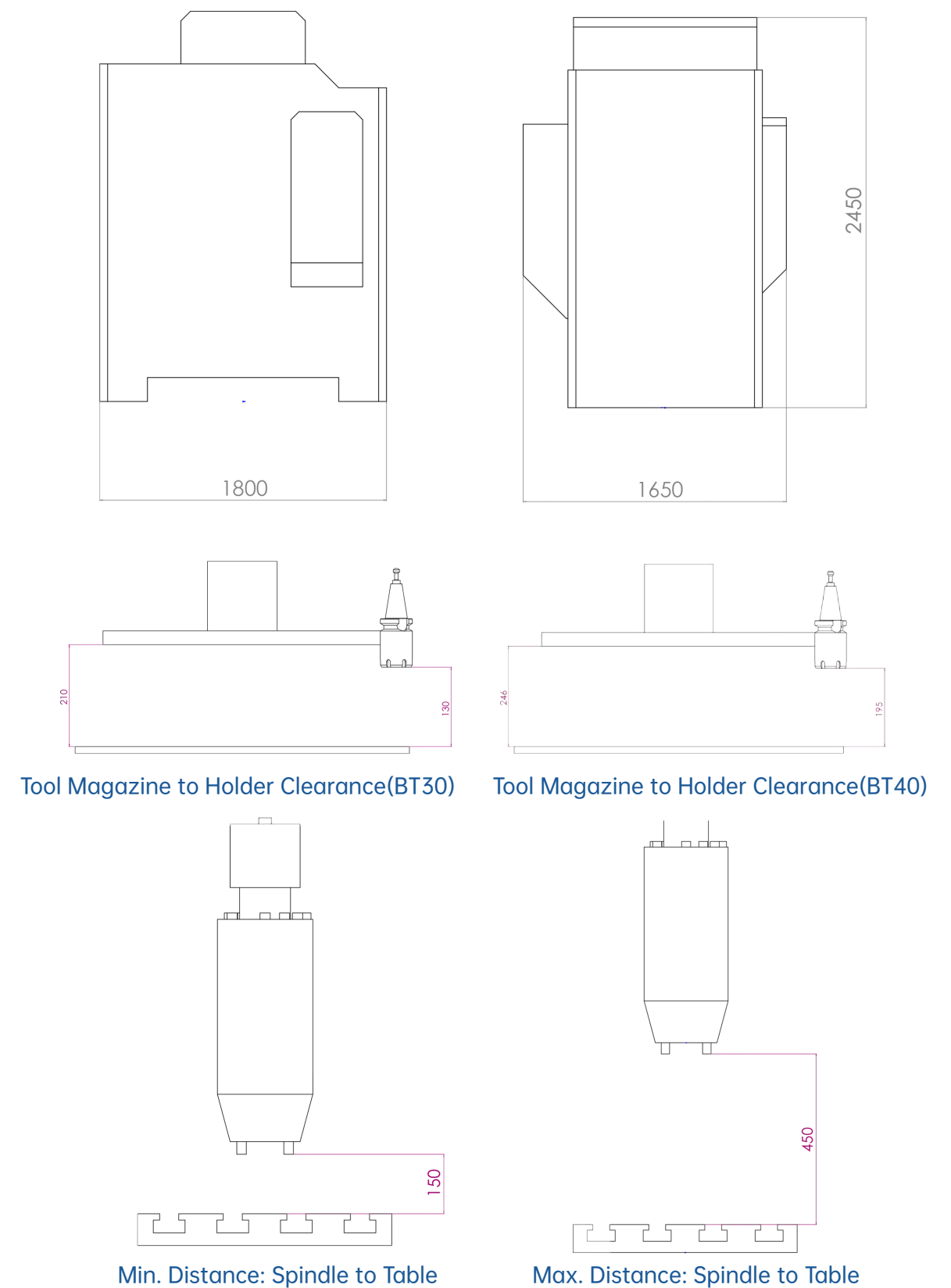


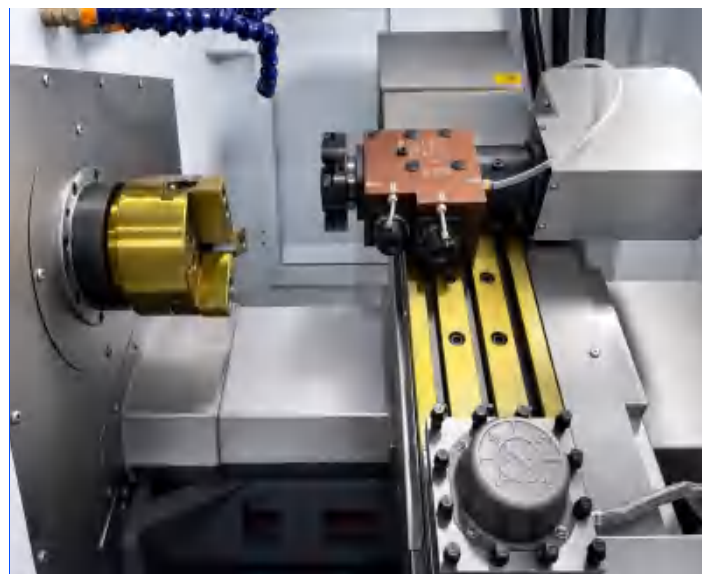
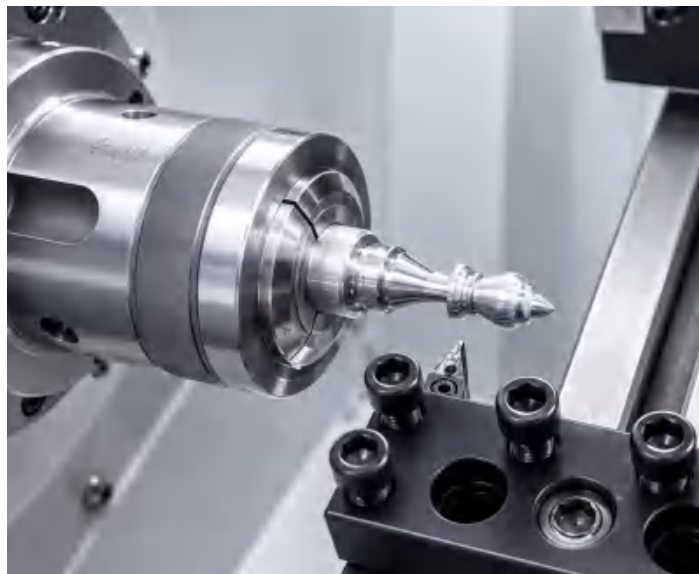
■ Dimensional Drawing of Milling

SZGH-540



SZGH-650





CUSTOMER FIRST

Professional Service

Customized Solution

One-stop Shopping