

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

VMC650

Vertical Machining Center



High efficiency



High precision



High stability

Product Description

The machine body adopts alloy cast iron with secondary tempering to ensure the stability and reliability of the body and effectively prevent the deformation of the body. Linear Guide Rail X/Y/Z axis linear guide rail all uses the original Taiwan HIWIN heavy-duty roller straight-line guide rail, may satisfy the customer the speed, the precision high request.

Product Features

1. Optical machine. Precision casting, precision machining, Precision assembly.
2. CNC Control system. Standard: SZGH.
3. Auto lubrication. Regular and quantitative auto. inter. lubrication. Adjust lubrication time accordingly.
4. TaiWan screw. TaiWan linear rail. TaiWan screw & linear rails. High rigidity & accuracy.

Technical Parameters

Model	VMC650
Table size	900x400mm
X axis travel	650mm
Y axis travel	400mm
Z axis travel	500mm
Max. worktable load	400kg
T slot (number of slots x slot x pitch)	5-16
Distance from spindle nose to table surface	100-600
Distance from spindle center to column guide surface	476mm
CNC system	SZGH
Rapid shift of axes of X/Y/Z	32/32/24
Maximum cutting feed speed	8
Standard tool quantity	16
Average tool exchanging time	1.8sec
Positioning accuracy	±0.008
Accuracy of repeated positioning	±0.005
Spindle speed	8000r.p.m
Spindle specifications	150mm
Tailstock taper	BT40
Drive manner of spindle	Belt type
Motor power of spindle	7.5KW
Integrated weight	3400kg
Overall dimension (length x width x height)	2200x2250x2350

Standard Accessories

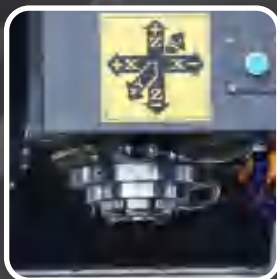
1. SZGH CNC controller
2. The 4th axis. Horizontal & vertical cnc rotary table can be chosen as optional. Need extra cost.
3. The 5th axis can be chosen as optional. Need extra cost.
4. Auto chip remover. Chain type chip conveyor can be chosen as optional. Need extra cost.
5. OIL cooler. Cooling the main shaft, improving the processing precision.
6. Tools setting. Metrol or Renishaw tool setting system can measure the tool diameter and length. Need extra cost.
7. Probe measuring. Metrol or Renishaw brand workpiece measuring system are optional. Need extra cost.

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

SZGH

VMC850

Vertical Machining Center



High efficiency



High precision



High stability

Product Description

The machine body adopts alloy cast iron with secondary tempering to ensure the stability and reliability of the body and effectively prevent the deformation of the body. Linear Guide Rail X/Y/Z axis linear guide rail all uses the original Taiwan HIWIN heavy-duty roller straight-line guide rail, may satisfy the customer the speed, the precision high request.

Product Features

1. Optical machine. Precision casting, precision machining, Precision assembly.
2. CNC Control system. Standard: SZGH.
3. Auto lubrication. Regular and quantitative auto. inter. lubrication. Adjust lubrication time accordingly.
4. Taiwan screw. Taiwan linear rail. Taiwan screw & linear rails. High rigidity & accuracy.

Technical Parameters

Model	VMC850
Table size	1000x500mm
X axis travel	800mm
Y axis travel	500mm
Z axis travel	500mm
Max. worktable load	500kg
T slot(number of slots x slot x pitch)	5-18
Distance from spindle nose to table surface	120-620
Distance from spindle center to column guide surface	545mm
CNC system	SZGH
Rapid shift of axes of X/Y/Z	32/32/24
XYZ Guide rail specification	35x35x35
Maximum cutting feed speed	8
Standard tool quantity	24
Average tool exchanging time	1.8sec
Positioning accuracy	±0.005
Accuracy of repeated positioning	±0.003
Spindle speed	8000r.p.m
Spindle specifications	150mm
Tailstock taper	BT40
Drive manner of spindle	Belt type
Motor power of spindle	7.5KW
Integrated weight	4500kg
Overall dimension(length x width x height)	2700x2280x2250

Standard Accessories

1. SZGH CNC controller
2. The 4th axis. Horizontal & vertical cnc rotary table can be choose as optional. Need extra cost.
3. The 5th axis can be choose as optional. Need extra cost.
4. Auto chip remover. Chain type chip conveyor can be choosed as optional. Need extra cost.
5. OIL cooler. Cooling the main shaft, improving the processing precision.
6. Tools setting. Metrol or Renishaw brand tool setting system can Measure the tool diameter and length. Need extra cost.
7. Probe measuring. Metrol or Renishaw brand workpiece measuring system are optional. Need extra cost.

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

SZGH

SZGH-1090
Gantry machining center



- High efficiency
- High precision
- High stability

Scope of Application

Workbench range: Suitable for 900x1000mm.

Product Description

The control system is equipped with Asia-Tech, G code programming; Huazhong, Baoyuan, and programming-free systems are optional.Direct spindle (Φ 150), maximum speed 8000 rpm, motor 11/15kw. Jiangsu Ronghua electric spindle, maximum speed 24000 rpm, power 11KW. Automatic intermittent lubrication system, work light.USB interface. Half-cover protective cover of the machine body.Full protective cover of the guide rail. Adjustment pads and bolts.

Technical Parameters

Model	SZGH-1090 (Directly connected mechanical spindle)	SZGH-1090D (Electric spindle)
Table size	900x1000mm	900x1000mm
Maximum load	800kg	800kg
Spindle speed	max: 8000 rpm	max: 24000 rpm
Spindle power	11/15kw	11kw
Spindle taper	BT40	BT30
Gantry inner frame	1000mm	1000mm
Distance from worktable to spindle end	min 150 max 650	min 150 max 650
Fast move of X axis	25m/min	25m/min
Fast move of Y axis	25m/min	25m/min
Fast move of Zaxis	20m/min	20m/min
X axis travel	900mm	900mm
Y axis travel	1000mm	1000mm
Z axis travel	500 (spindle end face from worktable)	500 (spindle end face from worktable)
Cutting feed speed	10000(mm/min)	10000(mm/min)
Tool magazine capacity	13-station servo tool magazine	14-station servo tool magazine
Tool holder type	BT40	BT30
Maximum drilling diameter(mm)	Steel Φ60	Aluminum 12
Maximum tapping diameter(mm)	M24	M10
Maximum milling cutter diameter(mm)	Φ80	Φ40
Repeatability	0.01	0.01
Air pressure kgf/cm2	6	6
Maximum power KW 2018	20	18
Machine size length*width*height (mm)	2600*2400*3500	2600*2400*3500
Machine weight	Approximately 7500 kg	Approximately 7500 kg

Product name	Manufacturer	Type
Controller	SZGH	1000MDCb-4 Umbrella Turret+E panel
X, Y, two-axis drive, motor	SZGH	SZGH-13380CC (3.8kw, 15N, 2500rpm) without brake (motor)
Z one-axis drive, motor	SZGH	SZGH-18300CC ((3.0kw, 19NM, 1500rpm) 220V with brake (motor)
Spindle	SZGH	180L-15-60-11-E1-B5(11KW)
X, Y, Z ball screw (Φ40*10)	Taiwan Precision C3 Grade	Taiwan
Guide rail (45 ball)	Taiwan Precision P Grade	Taiwan
Spindle servo motor	SZGH	SZGH-E7D30L servo driver
Turret	Jingdiao	Dongguan

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



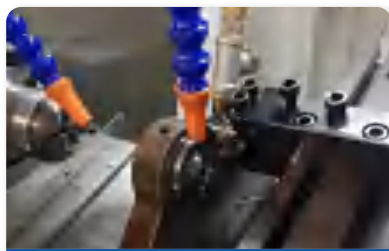
Terminal four power head



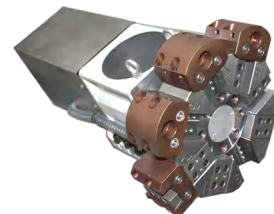
Four power heads on the Y axis side



Y axis 4+4 power head



Install the handpiece



Servo Turret



Hexagon punch

CNC DRILLING AND TAPPING CNC OPTIONAL

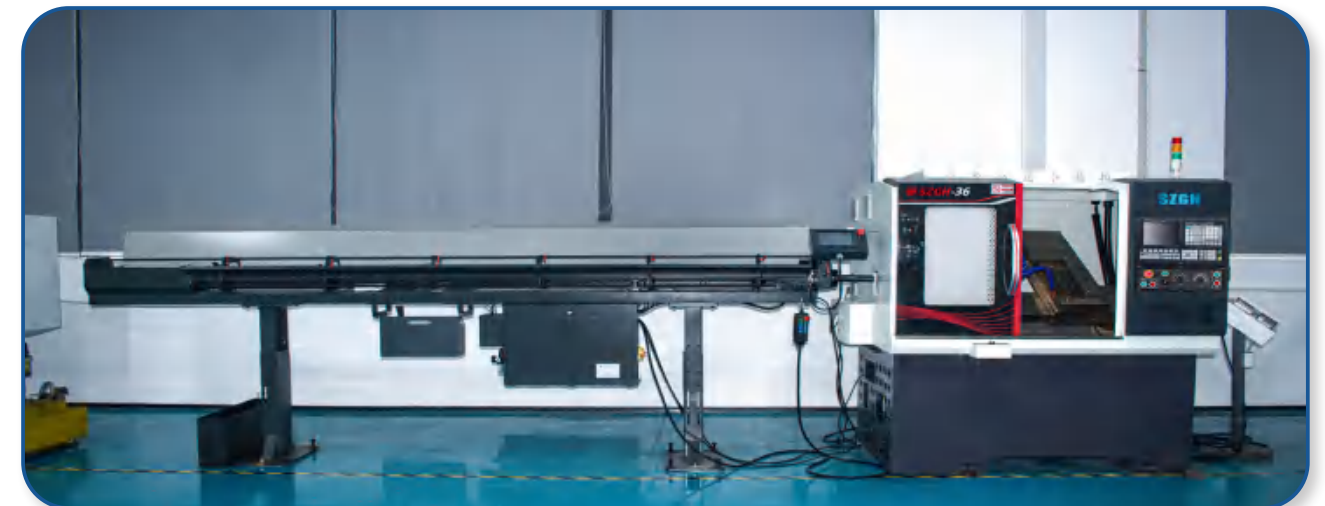


Add four axes



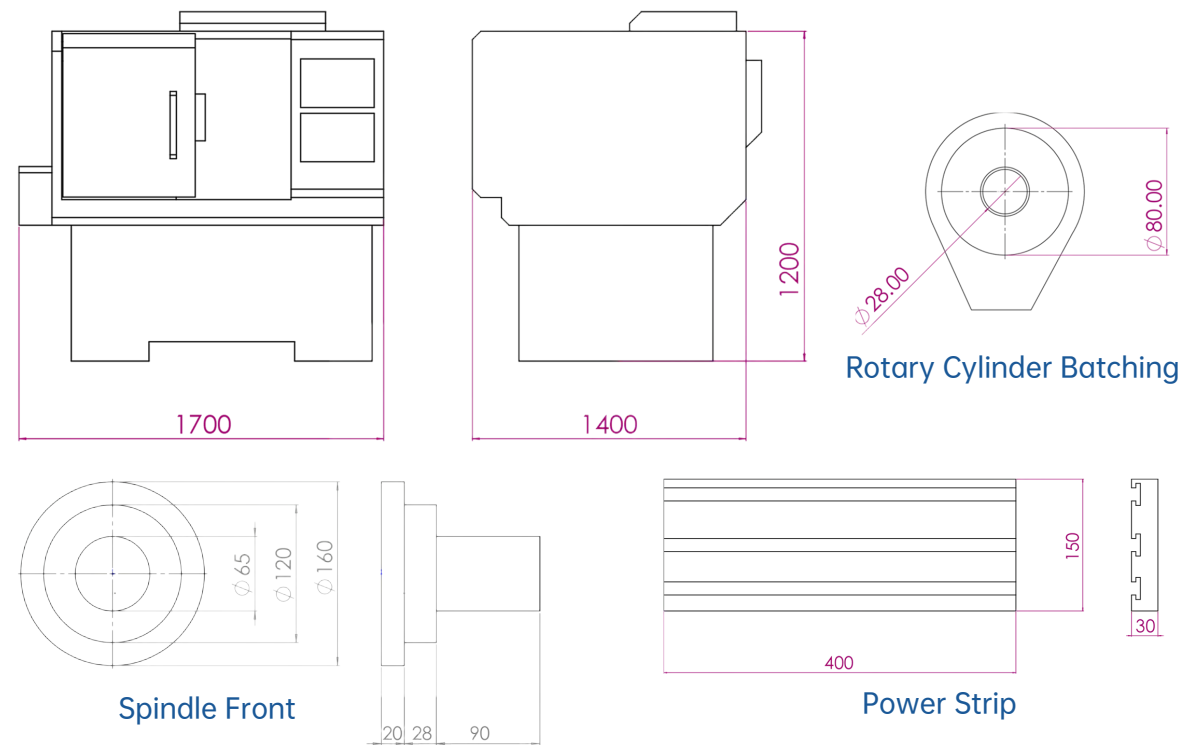
Install tail top four axis

FEEDING SELECTION

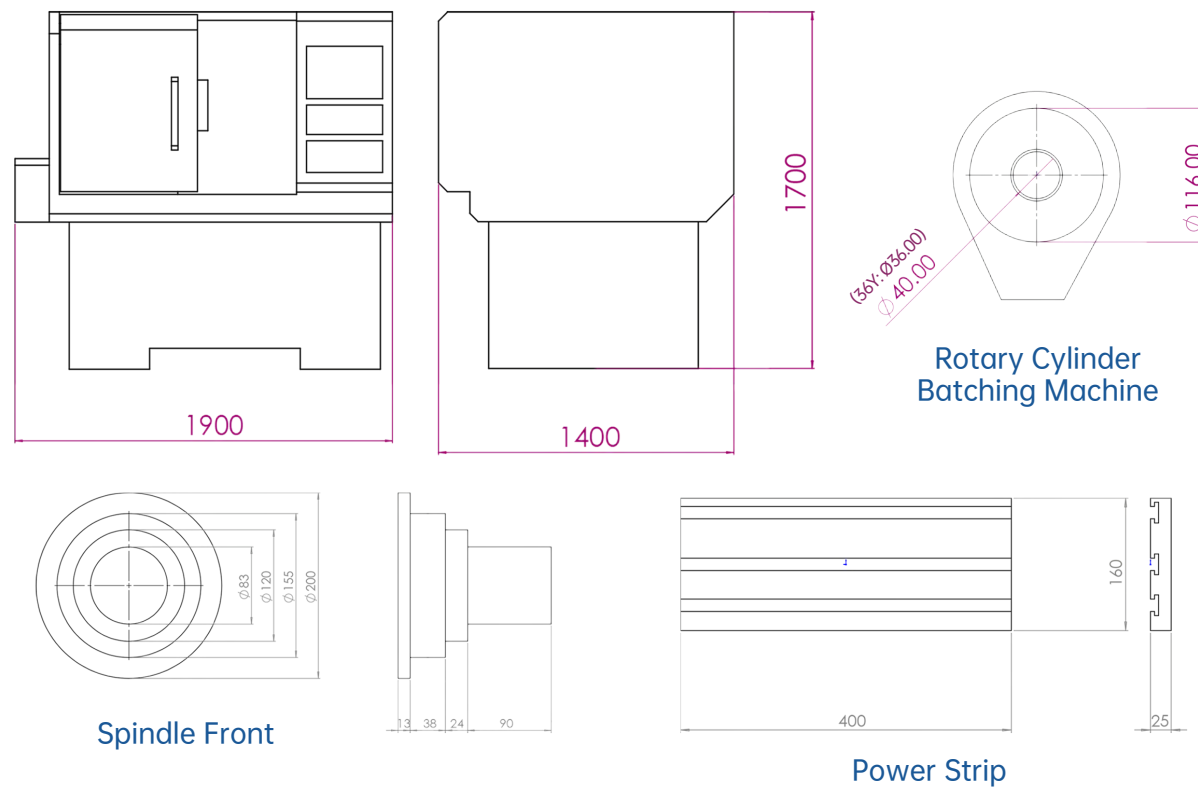


Dimensional Drawing of Lathe

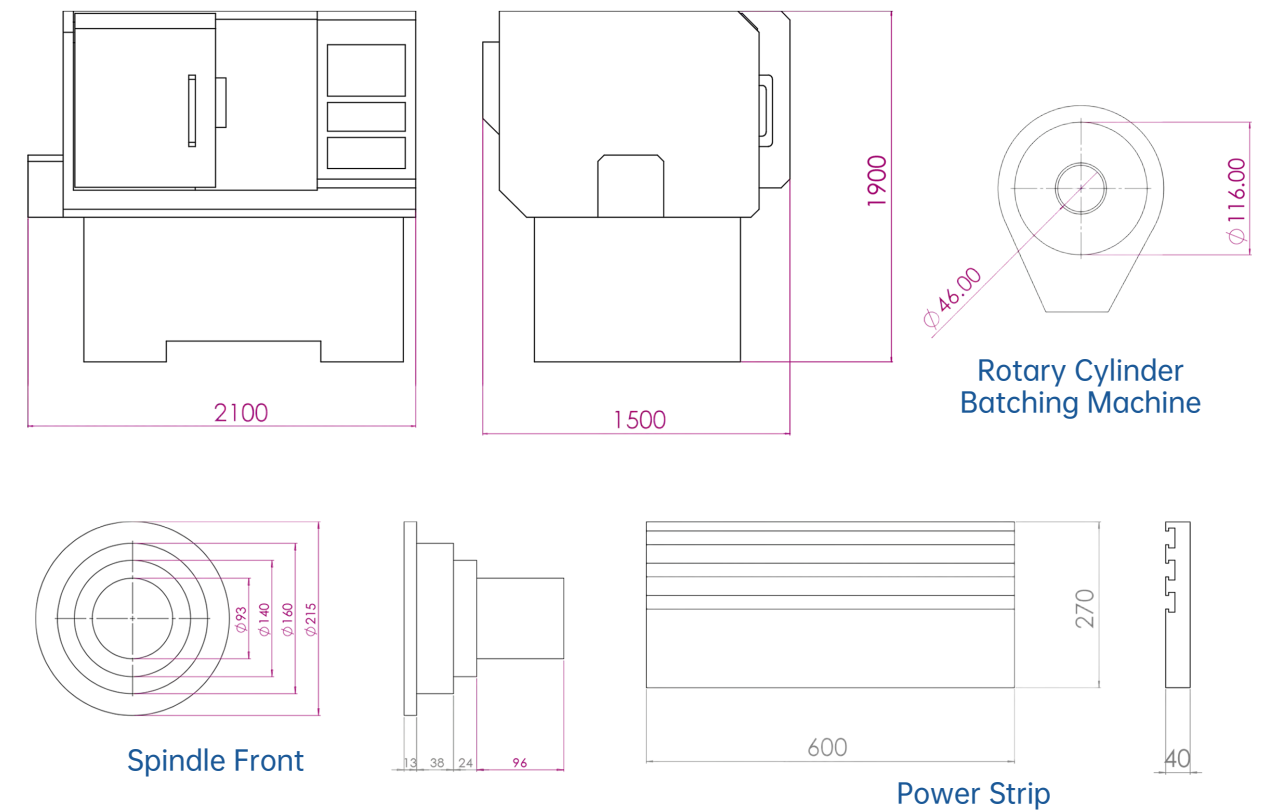
SZGH-25J



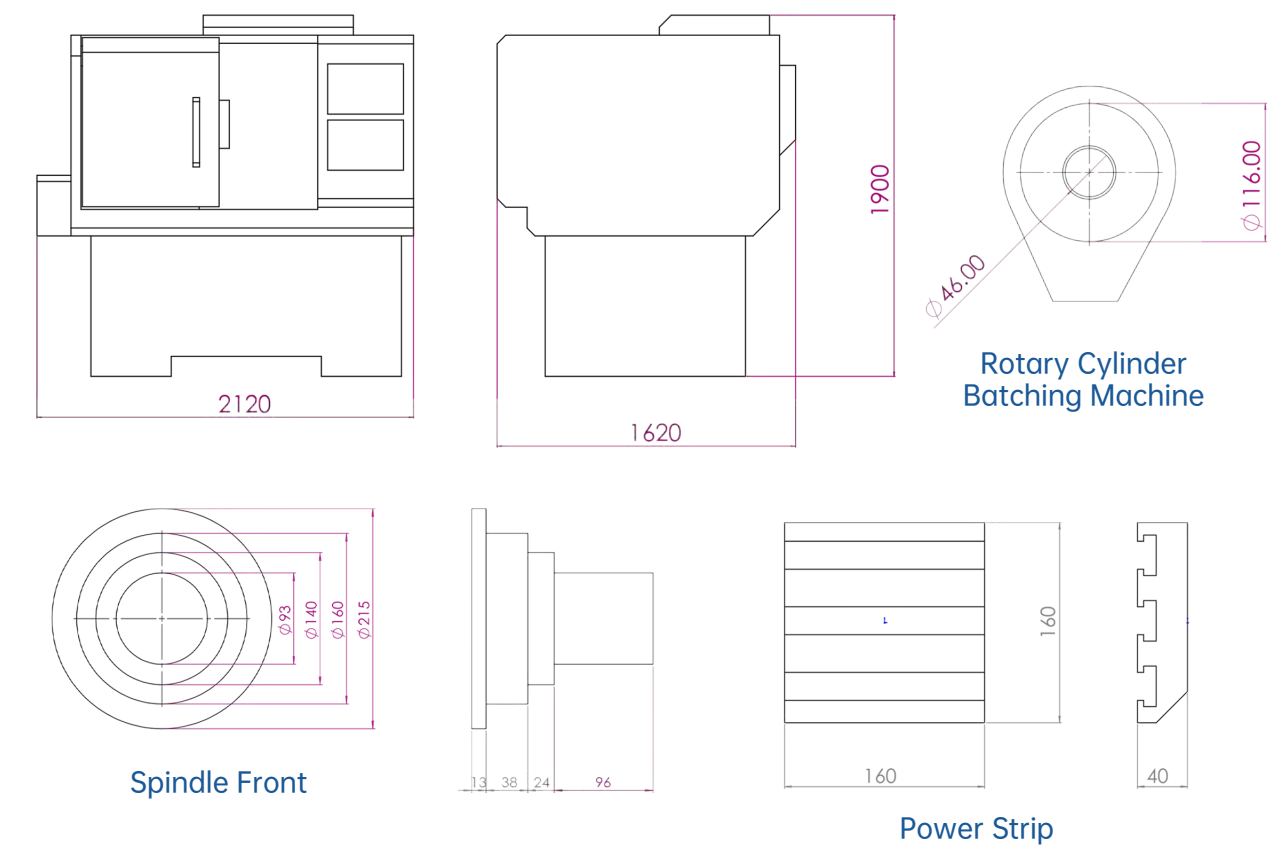
SZGH-36J/36Y



SZGH-46J

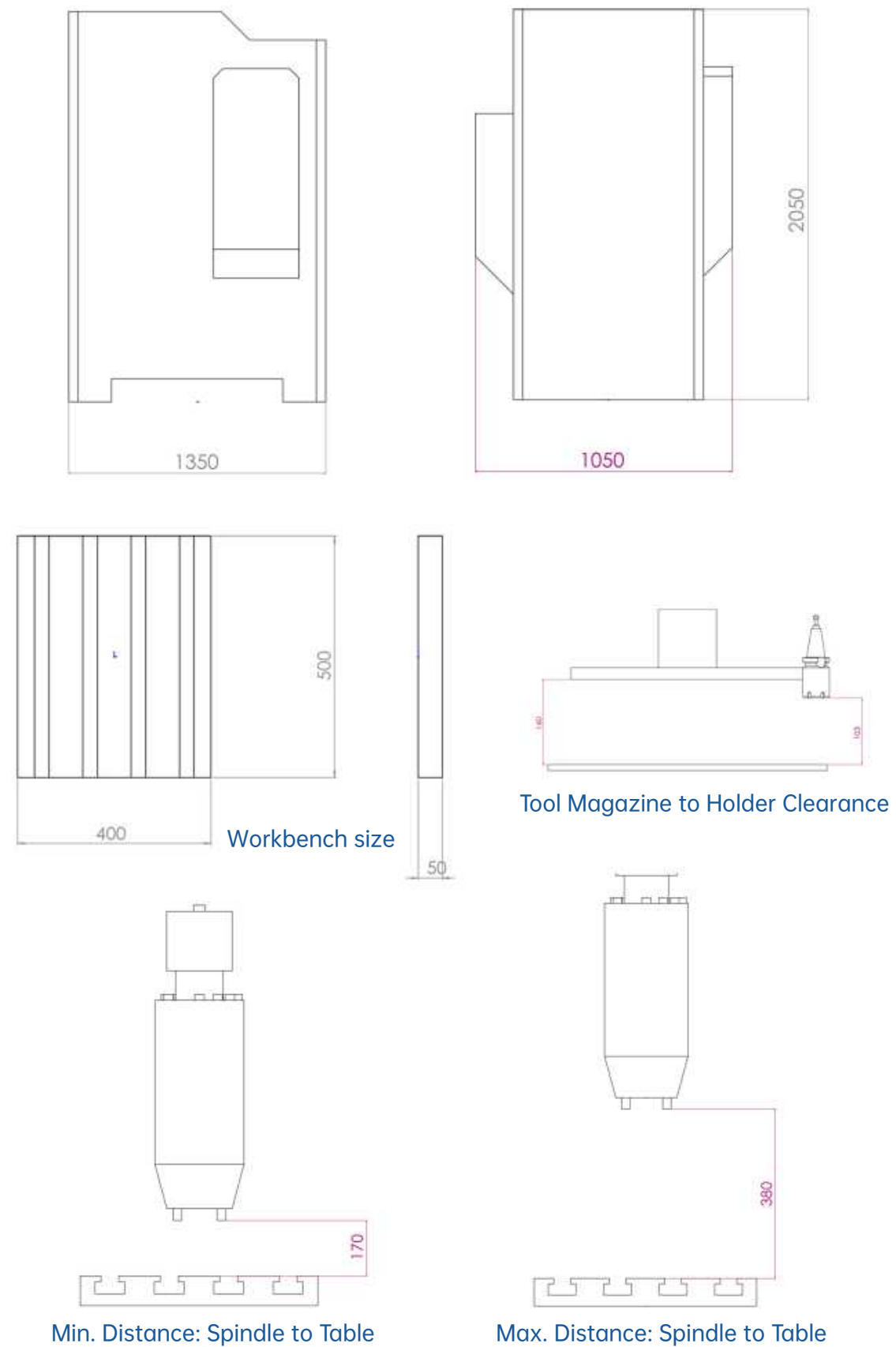


SZGH-46Y

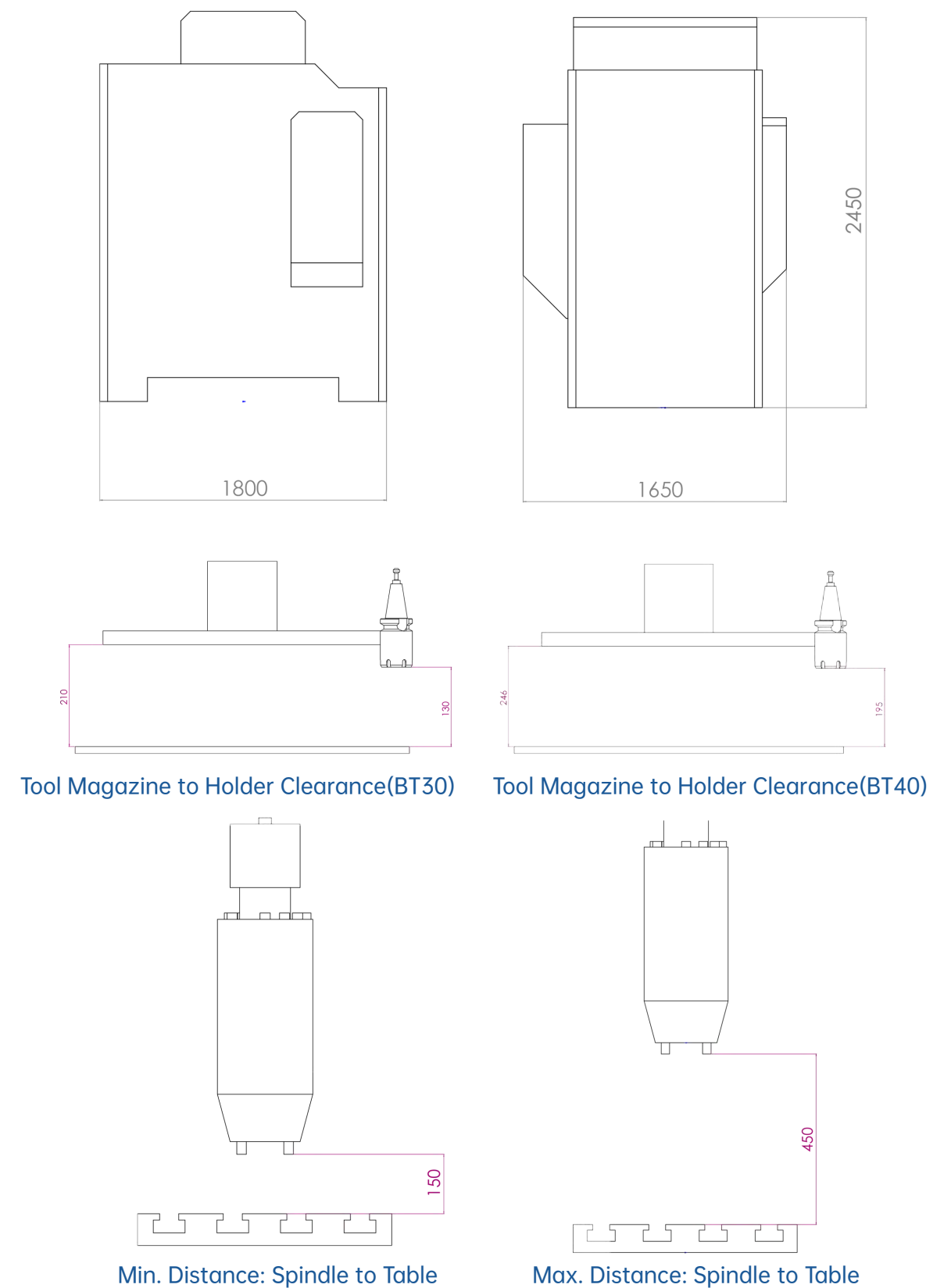


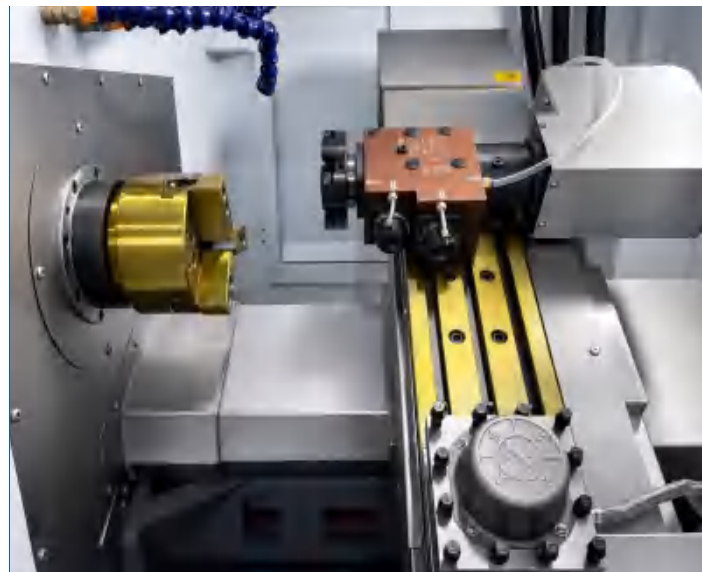
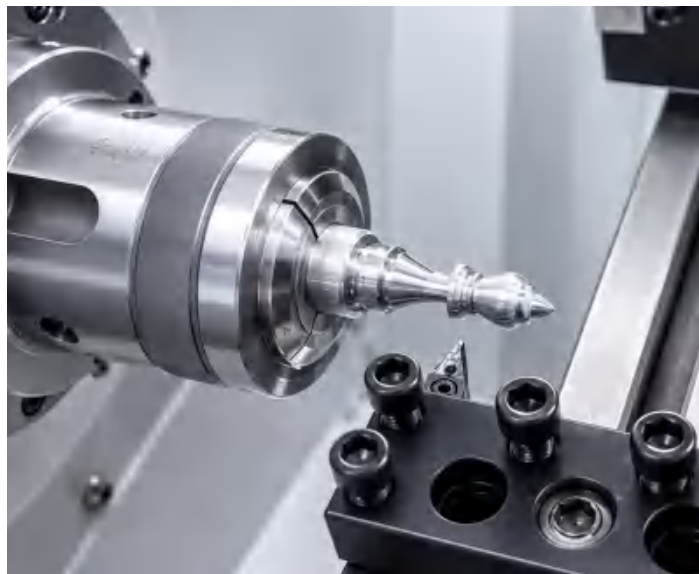
■ Dimensional Drawing of Milling

SZGH-540



SZGH-650





CUSTOMER FIRST

Professional Service

Customized Solution

One-stop Shopping