

CNC 1 Spindle 1-Turret Precision Lathe

GSL-10

NEW



Global strategy cost performance machine with combination of quality and assurance of MADE IN JAPAN

Pursuit of Cost Performance

- A simple machine that is easy to use with emphasis on cost performance. By using Japanese made parts on the core of the machine, a machine with stable “practicality” and “durability” can be used overseas.

Space-saving Compact Design

- With 6-Inch Chuck, the maximum turning diameter is $\phi 180\text{mm}$. With the space-saving compact design of 1,400mm width, 1,250mm length, this machine is easy to install.

Improved Operability

- An easy access to the operation panel is possible with the machine designed to minimum height and the control panel is mounted on the top of the machine. All frequently used buttons are all placed on the right side of the operator to improve operation.

Ease of Use for Operators.

- The distance from the door to the spindle center is shorter and the height from the floor to the spindle center is only 960mm. Thus, the replacement of The workpiece and the chuck is much easier.



Machine Specifications

Item		Unit	GSL-10
Capacity	Max.turning diameter	mm	φ 180
	Max.turning length	mm	190
	Max.bar diameter	mm	Solid
	Chuck size	Inch	6
Spindle	Spindle nose	JIS	A2 - 5
	Spindle Bearing I.D.	mm	φ 75
	Through-hole on spindle	mm	φ 46
	Spindle speed	min ⁻¹	Max.4,500
Tool post	Type		8-station turret
	Tool shank	mm	□20
	Boring holder I.D.	mm	φ 25
	Max.stroke	mm	X : 120 Z : 230
	Rapid traverse rate	m/min	X : 12 Z : 18
Motors	Spindle motor	kW	AC5.5/3.7
	Feed motor	kW	X : AC0.75 Z : AC1.2
	Coolant motor	kW	AC0.25
	Hydraulic motor	kW	AC0.75
Size	L×W×H	mm	1,400 × 1,250 × 1,615
	Machine Weight	kg	1,500
Total electric capacity		KVA	11.8

Standard Accessories

- ☐ Boring holder.....2sets ☐ Coolant unit.....1set
☐ Clamp block.....8sets ☐ TAKAMAZ instruction manual...1set
☐ Hydraulic chucking cylinder (Solid)....1set
☐ Hydraulic unit.....1set
☐ Splash guard.....1set

Optional Accessories

- ☐ Tool holders
☐ Hydraulic power chuck
☐ Front air blower
☐ Thread cutting unit
☐ Work light
☐ Automatic door system
☐ Signal light
☐ Chip conveyor (Rear)
 (Floor type/Spiral type)

Controller Specifications

Item	TAKAMAZ & FANUC
Controlled axes	2axes (X,Z)
Simultaneously controllable axes	Simultaneous 2 axes
Least input increment	0.001mm (X in diameter)
Least command increment	X : 0.0005mm Z : 0.001mm
Auxiliary function	M-code 3 digit
Spindle function	S-code 4 digit
Tool function	T-code 4 digit
Tape code	EIA(RS232C)/ISO(840) automatic recognition
Cutting feedrate	1~5,000mm/min
Command system	Incremental/Absolute
Linear interpolation	G01
Circular interpolation	G02,G03
Cutting feedrate override	0~150%
Rapid traverse override	F0,100%
Program number	4 digits
Backlash compensation	0~9999μm
Program memory capacity	512kbyte(1,280m)
Tool offsets	64 sets
Registered programs	400 pcs.
Tool geometry/Wear offset	Standard
Canned cycle	G90,G92,G94
Radius designation on arc	Standard
Tool offset measurement input	Standard
Background editing	Standard
Direct drawing dimension programming	Standard
Custom macro B	Standard
Additional custom macro common variables	#100~#199,#500~#999
Pattern data input	Standard
Nose R compensation	G40,G41,G42
Inch/Metric conversion	G20/G21
Programmable data input	G10
Run hour/Parts count display	Standard
Expansion part program editing	Standard
Multiple repetitive cycle	G70~G76
Canned drilling cycle	Standard
Clock function	Standard
Help function	Standard
Alarm history display	50 pcs.
Self-diagnosis function	Standard
Sub-program call	Up to 10 loops
Decimal point input	Standard
2nd reference point return	G30
Work coordinate system setting	G50,G54~G59
Stored stroke check 1	Standard
Stored stroke check 2, 3	Standard
Input/Output interface	USBMemory,Memory card
Alarm message	Standard
Graphic display	Standard
Conversational programming with graphic function	Standard
Abnormal load detection	Standard
FANUC set of manuals	CD-ROM

Option functions

Input/Output interface	RS232C
Tool life management	
Multiple M codes in one block	Max. 2
Constant surface speed control	G96,G97
Continuous thread cutting	G32
Variable lead thread cutting	G34
Thread cutting retract	
Spindle orientation	
Dynamic graphic function	
Manual guide "Oi"	
Automatic data backup	Max. 3
FANUC instruction manual	Bound

● Distributed by:

TAKAMAZ

TAKAMATSU MACHINERY CO.,LTD.

■HEAD OFFICE & PLANT
1-8 ASAHIGAOKA HAKUSAN-CITY ISHIKAWA JAPAN, 924-8558 TEL +81-(0)76-274-1403 FAX +81-(0)76-274-8530

TAKAMAZ TRADING (HANGZHOU) CO.,LTD.

■HANGZHOU HEAD OFFICE
NO.6800, JIANGDONG 3RD ROAD, JIANGDONG INDUSTRIAL PARK, XIAOSHAN, HANGZHOU, ZHEJIANG, CHINA
TEL +86-(0)571-8215-3750 FAX +86-(0)571-8215-3732

■GUANGZHOU OFFICE
ROOM 1315, NO.2, KEHUI FOURTH STREET, NO.99 OF SCIENCE ROAD, LUOGANG DISTRICT, GUANGZHOU
TEL +86-(0)20-8210-9921 FAX +86-(0)20-8210-9921

TAKAMATSU MACHINERY USA INC.

■CHICAGO HEAD OFFICE
1320 LANDMEIER ROAD ELK GROVE VILLAGE, IL 60007 USA TEL +1-(0)847-981-8577 FAX +1-(0)847-981-8599
■CINCINNATI OFFICE
5233 MUHLHAUSER ROAD, WEST CHESTER TOWNSHIP, OH 45011 USA TEL +1-(0)513-870-9777 FAX +1-(0)513-870-0325

TAKAMATSU MACHINERY (THAILAND) CO.,LTD.

■THAILAND HEAD OFFICE
888/17 MOO 19 BANGPLEE-DAMRU ROAD., BANGPLEEYAI, BANGPLEE, SAMUTPRAKARN 10540
TEL +66-(0)2-382-5372 FAX +66-(0)2-382-5373

TAKAMAZ MACHINERY EUROPE GmbH

■EUROPEAN HEAD OFFICE
INDUSTRIEGEBIET, DIEPENBROICH 27 D-51491 OVERATH, GERMANY
TEL +49-(0)2206-919-3960 FAX +49-(0)2206-865-123
TEL +49-(0)2206-866-150

<http://www.takamaz.co.jp/>

Precautions Related to Foreign Exchange and Foreign Trade Control Laws

This product (machine and ancillary equipment) may fall under the category of controlled goods by the foreign exchange and foreign trade control laws.

As such, the exportation must be authorized by the Japanese government as stipulated in the laws

This product is manufactured in accordance with the regulations and standards that prevail in the country or region of destination. The user must not export, sell, or relocate the product, to any country with different regulations or standards.



This brochure is made from 100% recycled paper.