

機械選択情報

Machinery Sale Information



CMC CO., LTD

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Date:2021.Sep.22



Listing No.61114

<1590280>

New Machine

TAKAMAZ	CNC 1 Spindle 1 Turret Precision Lathe Machine	GSL-15 PLUS FANUC-0i-TF	2021 / SEP
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■ MAIN SPECIFICATIONS ■

❖ CNC1スピンドル1タレット精密旋盤	❖ CNC1 Spindle 1Turret Precision Lathe
❖ テールストック付き	❖ With Tailstock
❖ 最大加工径 φ 310	❖ Max.Turning Diameter Φ310
❖ 最大加工長 300	❖ Max.Turning Length 300
❖ 最大棒材径 中実	❖ Max.Bar Diameter Solid
❖ チャックサイズ 8インチ	❖ Chuck Size 8 Inch
❖ 主軸軸受内径 φ 100	❖ Spindle Bearing I.D Φ100
❖ 主軸貫通径 φ 61	❖ Through Hole On Spindle Φ61
❖ 主軸回転数 3,500 RPM	❖ Spindle Speed 3,500 RPM
❖ 機械重量:2,500kg	❖ Machine Weight: 2,500kg

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# 部品チェックリスト

機種	GSL-15PLUS	製番	CM00018402
		機番	1590280

2021年9月21日

	名称	数量	チェック	部品の所在		名称	数量	チェック	部品の所在	
				(ダンボール)	(機械取付)				(ダンボール)	(機械取付)
付属品	工具箱			ダンボール		A 正				
	敷板	4	✓	ダンボール	機械同送	B 逆				
	治具(レベル出し用)			ダンボール		F ボーリング				
	プッシュロッド			ダンボール	機械取付	G 正(横)				
	電気予備品	1	✓	工具箱	ダンボール	H 逆(横)				
	操作キー	1	✓	ダンボール		ベース				
	照明灯装置	1	✓	ダンボール	機械取付	ブロック(A・B・C)				
	チップコンペア				機械同送	システムホルダ				
	チップパケット				機械同送	外径ホルダ				
						内径ホルダ				
書類	制御装置保証書	1				突切りホルダ				
	パラメータ・信号表	1				ボーリングホルダ	2	✓	2	
	検収書・検査表	0				2穴ホルダ				
	取扱説明書	1				Uドリルホルダ				
	電気図面					ターニングホルダ				
	その他図面					クランプブロック	8	✓	8	
	制御装置取扱説明書					クーラントブロック	8	✓	8	
	〃 保守説明書					逃げ面吐出クーラントブロック				
	〃 取扱・保守説明書CD	1				正面ミーリング				
	コンパクトフラッシュ					側面ミーリング				
パワーチャック	ジョイント					ドリルホルダ				
	フランジ					ドリルコレット				
	成形爪(生)					スパナ				
	成形爪(焼)									
	生爪	1	✓							
	日鋼:									
	北川: N-08	1	✓							
	豊和:									
	帝国:									
コレットチャック	2Aフランジ・ジョイント					φ8(φ5/16)				
	2A850フランジ					φ10(φ3/8)				
	2A850ジョイント					φ12(φ1/2)				
	A6-(850・2A)フランジ・ジョイント					φ16(φ5/8)				
	普通型・補助型					φ20(φ3/4)				
	ツバ付型・静止型・飛越型					φ25(φ1)				
						φ32(φ1 1/2)				
						バーストツパー				
その他	スペアボルト									
	ジャッキボルト									
	テーパピン									
トランス ( KVA)										
運送会社名	浅野川・北進・野々市・上組・日本トランス その他 ( 引取り ) 据付・車上渡し									
ダンボール総数 ( ) 個										

責任者 担当者 点検者

中島

CNC Spindle Turret  
Precision Lathe

# CSL series

 C.M.C CO.,Ltd

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**TAKAMAZ**

# Leading the World in Cost Performance



## GSL-15 PLUS

Chuck size **8** Inch

Max.turning diameter	φ 310mm
Max.turning length	300mm
Max.bar diameter	Solid
Tool post type	8-station turret
Rapid traverse rate	X:18 Z:24 m/min
Spindle motor	AC 7.5/5.5 kW
Dimensions(LxW)	1,875 (With tailstock:1,990) × 1,680 mm
Controller	TAKAMAZ & FANUC

# GSL-15 PLUS

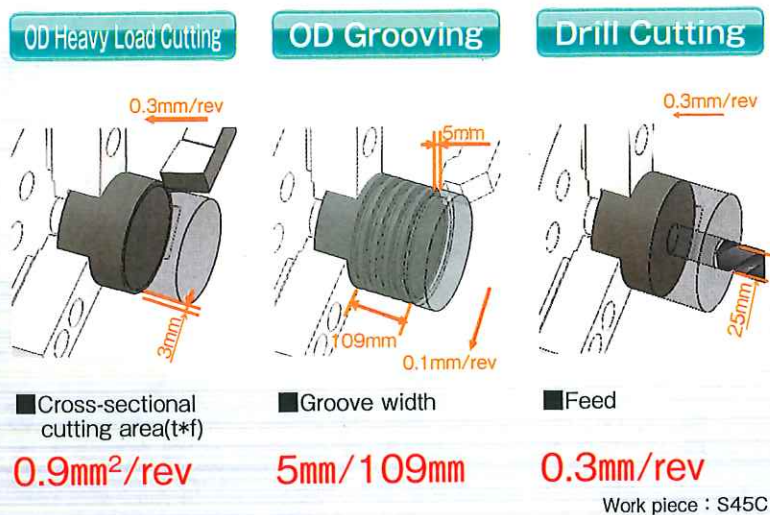
Designed for high quality and endurance



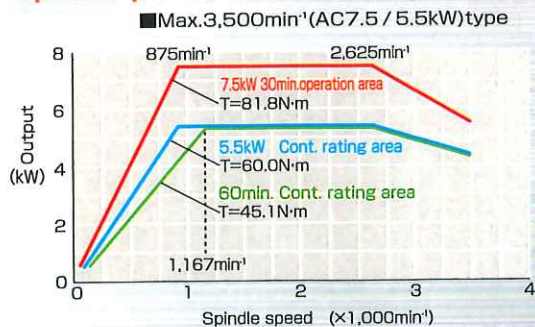
※ Holders are common-use with the GSL-15.

We have called on the technical knowhow on lathes that we have built up over many years, and adopted a spindle unit with the same bore diameter of 100 mm that has proven itself on our flagship model (XL-150). The machine will maintain endurance even in working environments outside Japan and minimize changes in finish dimensions if operating over long periods.

## Stable Turning Accuracy

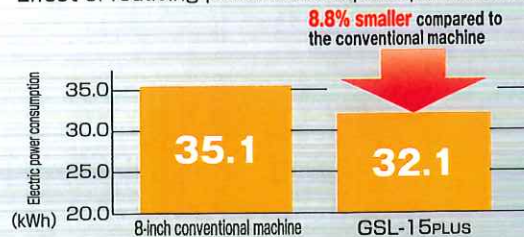


## Spindle power characteristic curve



## Pursuit of Energy Efficiency

Effect of reducing power consumption per machine



※ Operating Condition: Power Consumption per Cycle Running performed with TAKAMAZ Measuring Standard Program

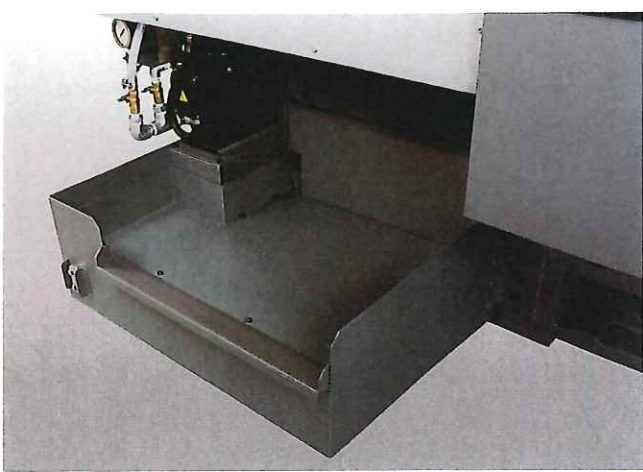
# This is the Launch of a Universal Machine of Global Standards with Refined Utility and Endurance.

## Simultaneous attainment of low costs and high reliability

Simplifying the structure realizes low costs and provides differentiation from existing machines. What is more, high reliability is maintained because, from parts to assembly, manufacture is completely done in Japan while achieving low costs.

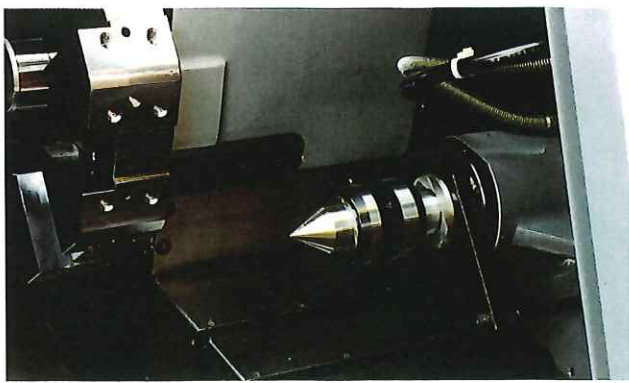
## Operator-friendly design

Excellent accessibility, with a spindle center height of 980 mm and a distance from the front of 315 mm, along with a machine ceiling height of 1,400 mm, release operators from feeling constricted and allow even short-statured operators to work without strain. Maintainability is also improved by adopting a fixed-type coolant tank that can be cleaned inside simply by removing the lid.



## Equipped with a tailstock unit

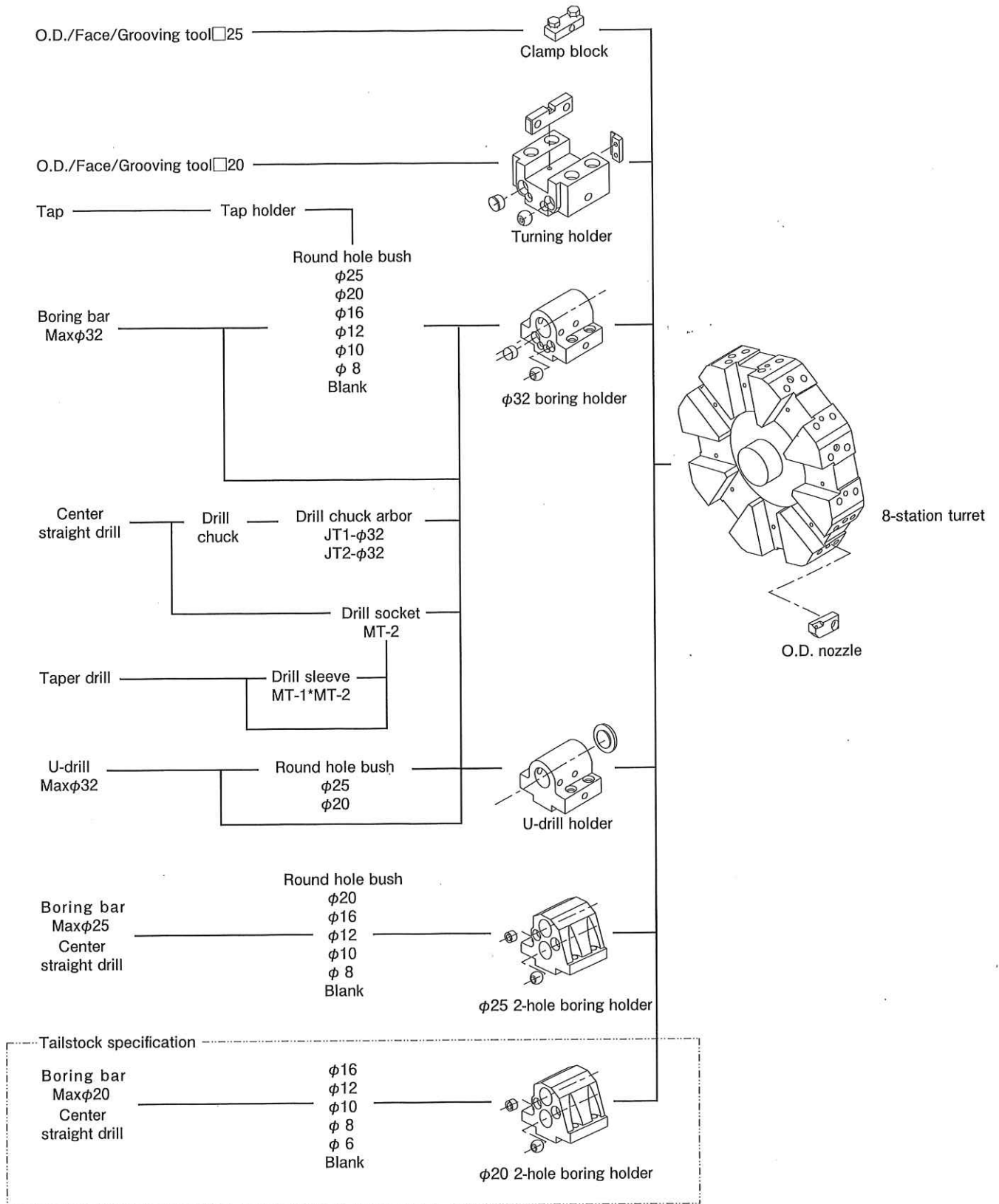
The tailstock unit allows shaft work to be handled as well.



	Item	Unit	
Tailstock	Pointed End		MT - 4
	Quill O.D.	mm	φ56
	Quill stroke	mm	85
	Tailstock stroke	mm	220
	Max. thrust	kN	3.5

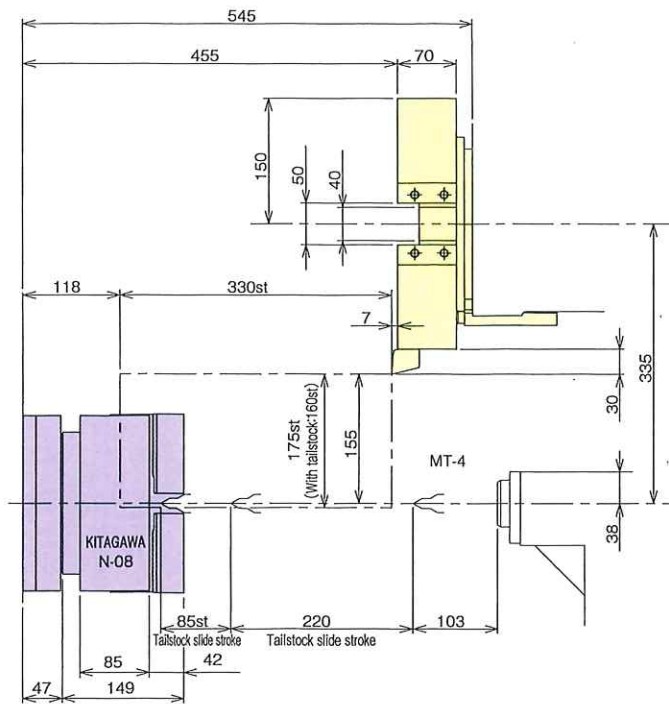
## Tooling System

### GSL-15 PLUS

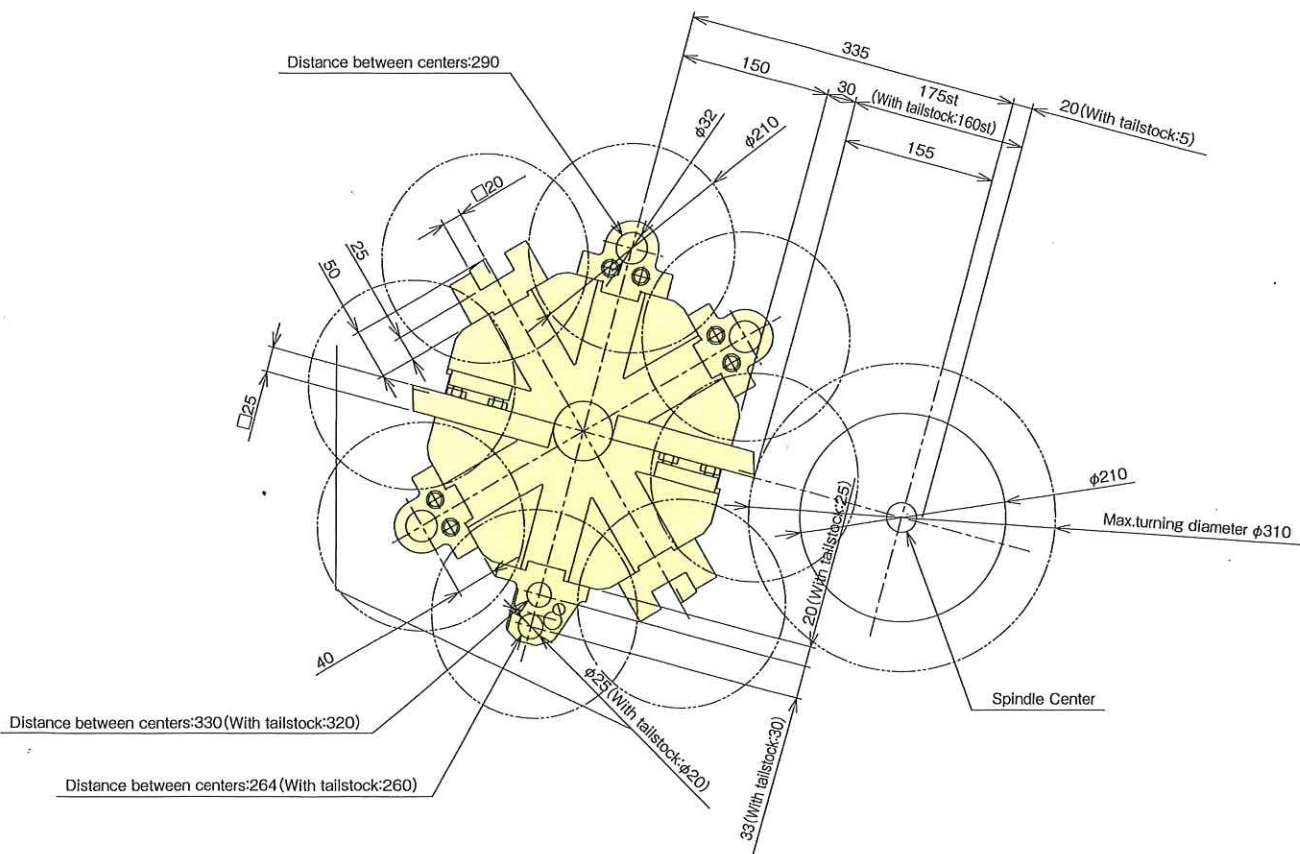


## Stroke-Related Drawing

### GSL-15 PLUS



## Turret Interference

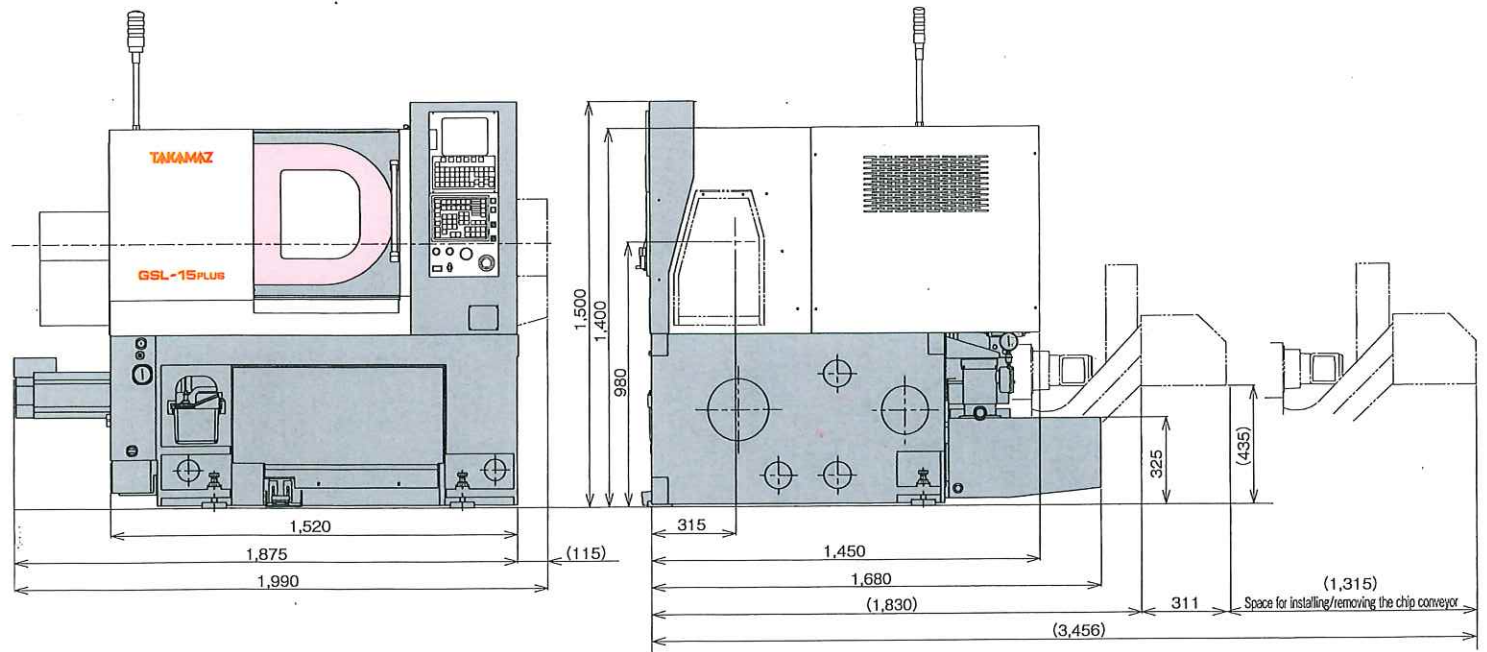
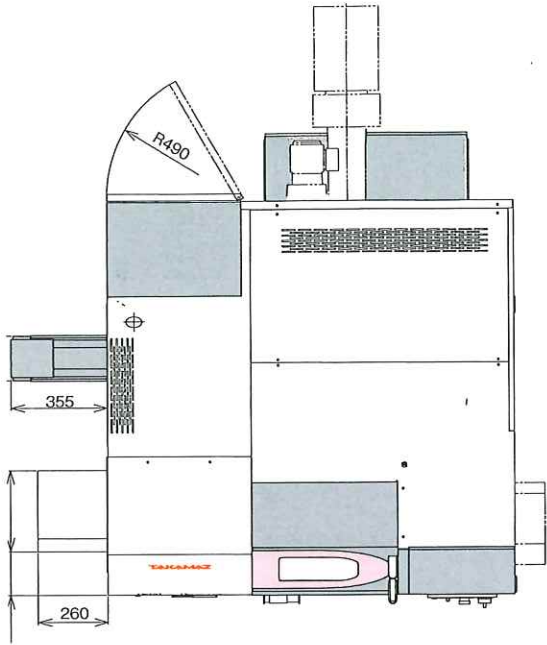


Unit(mm)



## Floor Space

### GSL-15 PLUS



Unit(mm)

# SPECIFICATION

## Machine Specifications

Item		Unit	GSL-10H	GSL-15 PLUS	
				Without tailstock	With tailstock
Capacity	Max. turning diameter	mm	φ180	φ310	
	Max. turning length	mm	190	300	
	Max. bar diameter	mm	φ26(Hollow)	Solid	
	Chuck size	inch	Collet,6	8	
Spindle	Spindle nose	JIS	A <sub>2</sub> -5	A <sub>2</sub> -6	
	Spindle bearing I.D.	mm	φ75	φ100	
	Through-hole on spindle	mm	φ46	φ61	
	Spindle speed	min <sup>-1</sup>	Max.4,500	Max.3,500	
Tool post	Type		8-station turret	8-station turret	
	Tool shank	mm	□20	□25(I.D.□20)	
	Boring holder I.D.	mm	φ25	φ32	
	Max. stroke	mm	X: 120 Z: 230	X: 175 Z: 330	X: 160 Z: 330
	Rapid traverse rate	m/min	X: 12 Z: 18	X: 18 Z: 24	
Motors	Spindle motor	kW	AC5.5/3.7	AC7.5/5.5	
	Feed motor	kW	X: AC0.75 Z: AC1.2	X: AC1.2 Z: AC1.8	
	Coolant motor	kW	AC0.25	AC0.4	
	Hydraulic motor	kW	AC0.75	AC0.75	
Tailstock	Pointed End		-	-	MT-4
	Quill O.D.	mm	-	-	φ56
	Quill stroke	mm	-	-	85
	Tailstock stroke	mm	-	-	220
	Max. thrust	kN	-	-	3.5
Size	L×W×H	mm	1,610 × 1,390 × 1,585	1,875(With tailstock:1,990) × 1,680 × 1,500	
	Machine weight	kg	1,620	2,300	2,500
Total electric capacity		KVA	12	14	

## Standard Accessories

Item	GSL-10H	GSL-15 PLUS
<input type="checkbox"/> Boring holder		2 sets
<input type="checkbox"/> Clamp block		8 sets
<input type="checkbox"/> Coolant block(O.D.nozzle)		8 sets (For reverse cutting tools)
<input type="checkbox"/> Hydraulic chucks	- (Parts order)	1 set (Solid)
<input type="checkbox"/> Hydraulic chucking cylinder	1 set (Hollow)	1 set (Solid)
<input type="checkbox"/> Hydraulic unit		1 set
<input type="checkbox"/> Thread cutting unit(Including constant surface speed control)		1 set
<input type="checkbox"/> Coolant unit	1 set (125 lit.)	1 set (110 lit.)
<input type="checkbox"/> Work light		1 set
<input type="checkbox"/> Signal light		1-color
<input type="checkbox"/> TAKAMAZ instruction manual		1 set

## Parts Order

Item	GSL-10H	GSL-15 PLUS
<input type="checkbox"/> Tool holders		○
<input type="checkbox"/> Collet chucks	○	-
<input type="checkbox"/> Hydraulic chucks	○	(Standard)
<input type="checkbox"/> Rear chip conveyor		○(Spiral type)
<input type="checkbox"/> Front air blower		○
<input type="checkbox"/> Automatic door system		○

※Delivery will be separate from machine order.This is handled as parts order.

## Controller Specifications

Item	GSL-10H	GSL-15 PLUS
	TAKAMAZ & FANUC Oi Mate-TD	TAKAMAZ & FANUC Oi-TF
Controlled axes	2 axes (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	1~7,000mm/min
Command system	Incremental/Absolute	
Linear interpolation	G01	
Circular interpolation	G02, G03	
Cutting feedrate override	0~150%	
Rapid traverse override	F0, 100%	
Program file name	—	32 characters
Program number	4 digits	—
Backlash compensation	0~9,999 $\mu$ m	
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	Standard	
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	
Extended part program editing	Standard	
Multiple repetitive cycle	G70~G76	
Multiple repetitive cycle II	—	Pocket-shaped
Canned drilling cycle	Standard	
Constant surface speed control	G96, G97	
Continuous thread cutting	G32	
Variable lead thread cutting	G34	
Thread cutting retract	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	USB Flash Memory, Memory card, Ethernet	
Alarm message	Standard	
Graphic display	Standard	
Conversational programming with graphic function	Standard	
Abnormal load detection	Standard	
Starting condition check function	Standard	
Automatic data backup	—	Standard
TAKAMAZ maintenance functions	Standard	
FANUC set of manuals	CD-ROM	DVD-ROM

## Optional Specifications (Parts Order)

Item	GSL-15 PLUS
Tool life management	
Multiple M codes in one block	Max.2
Spindle orientation	1 set/2~6 sets
TAKAMAZ Support Lite	Workpiece counter, Tool counter, Constant wear compensation