



GLS-Series



YAMA SEIKI[®]
THE ULTIMATE TURNING POWER[®]

GLS SERIES

GLS-200

General Features

Accessories

Specifications

Engineered for the ultimate turning power, the GLS series combines power, strength and speed to accomplish today's most demanding turning applications. The 30 degrees true slant bed design, the servo indexing turret, and the fast heat dispensing high speed precision spindle are just a few of the many outstanding standard features on the GLS series.



GLS SERIES

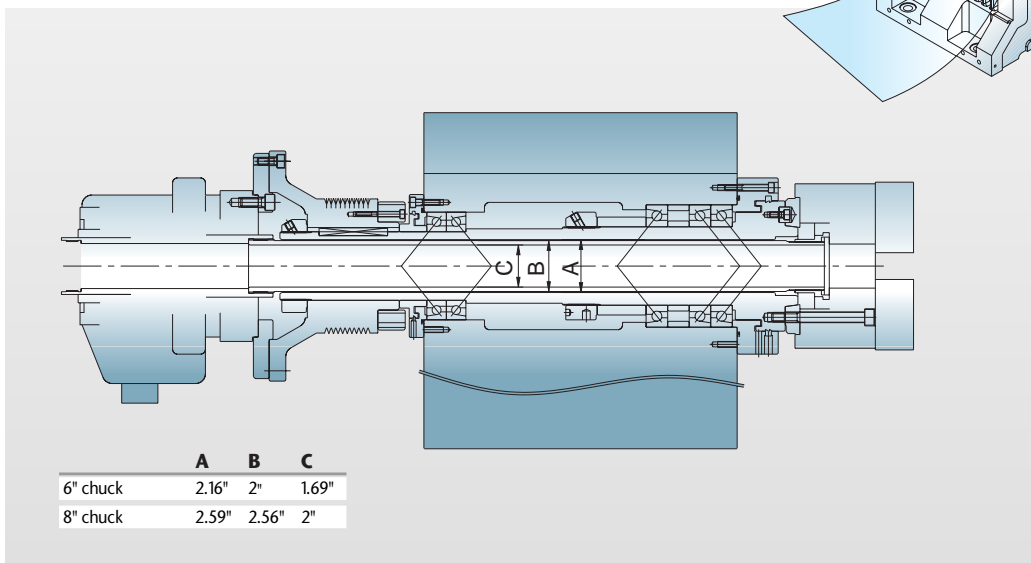
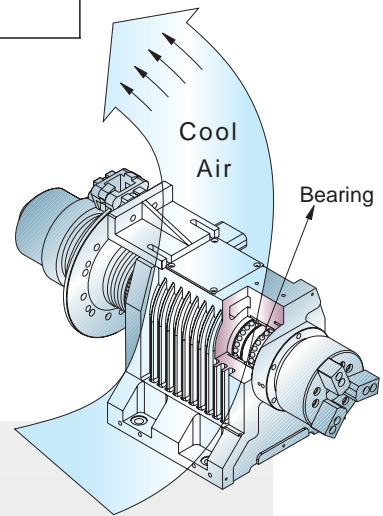
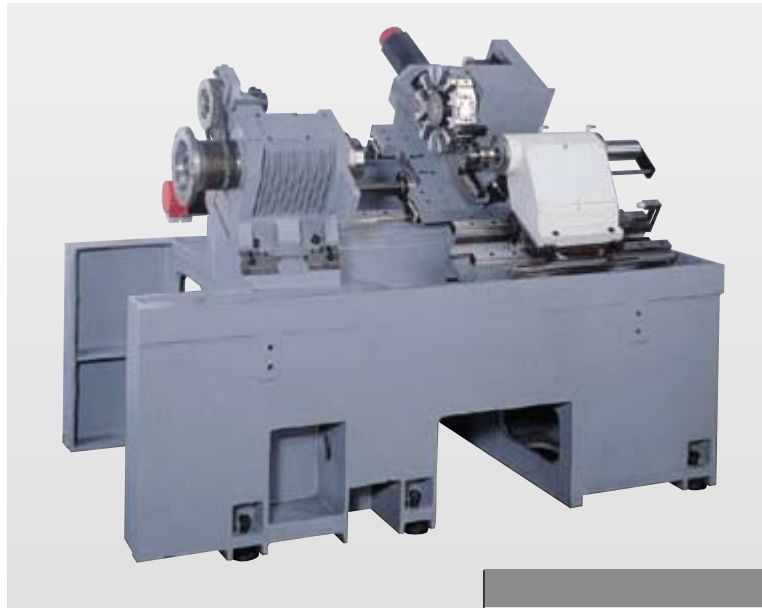
- ▶ 12.6"(320mm) Maximum Turning Diameter
- ▶ 19.68"(500mm) Maximum Turning Length
- ▶ 6" or 8" Chucks
- ▶ Fanuc Oi-T 32-bit High Speed Control
- ▶ 12-Station Servo Indexing Turret With 0.2 sec. Indexing
- ▶ 30 Degrees True Slant Bed
- ▶ Large "NSK" Super High Precision Linear Guide Ways On All Axes
- ▶ 787IPM(20m/min.) X-axis rapid traverse
- ▶ 1,181IPM(30m/min.) Z-axis rapid traverse
- ▶ 15 Horse Power AC Spindle Motor
- ▶ 6" Chuck (6000PRM) Or 8" Chuck (4200RPM) Spindle Speeds

GLS-150

- ▶ 1.65" (42mm) Diameter Bar Capacity

GLS-200

- ▶ 2.00" (51mm) Diameter Bar Capacity



General Features

GLS-150

General Features

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Specifications

CONSTRUCTION

Built to withstand years and years of rigors high production turning, the heavily ribbed, one piece, thermally balanced bed and casting parts are of "Meehanite" casting. The 30 degrees true slant bed design further provides superior support for the headstock, turret, and tailstock, thus, creating the rigidity needed for long-term high precision turning and efficient chip removal.

SPINDLE

By using a spindle housing with heat-dispersing fins to disperse heat quickly and efficiently, heat distortion is eliminated to a minimum and additional strength is added to the structure. High-speed precision angler bearing assemblies are positioned in best-suited distances of support. The results are ultra-smooth high-speed turning and rigidity to withstand loads from all directions with a higher level of accuracy.

A 15 horsepower Fanuc Alpha 8 AC wide range spindle motor powers the spindle. 2 types of spindle speed configuration are available.

System 1:

Using a pulley ratio of 1:1, the spindle speed range is 60~1500~6000 RPM. This system provides a higher spindle RPM output, which is ideal for collet and small chuck work.

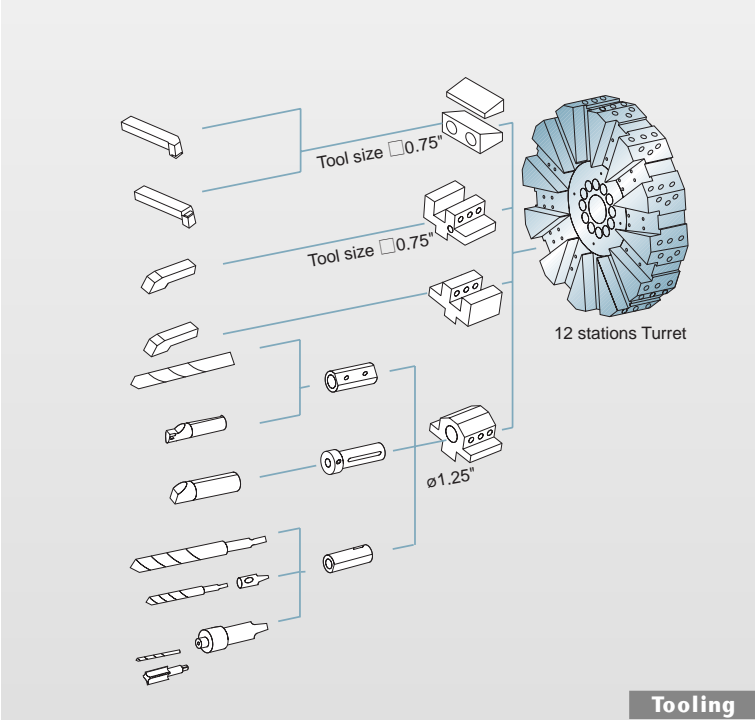
System 2:

Using a pulley ratio of 7:10, the spindle speed range is 42~1050~4200 RPM. This system provides a higher torque output at lower RPM speeds, which is ideal for larger diameter chuck work.

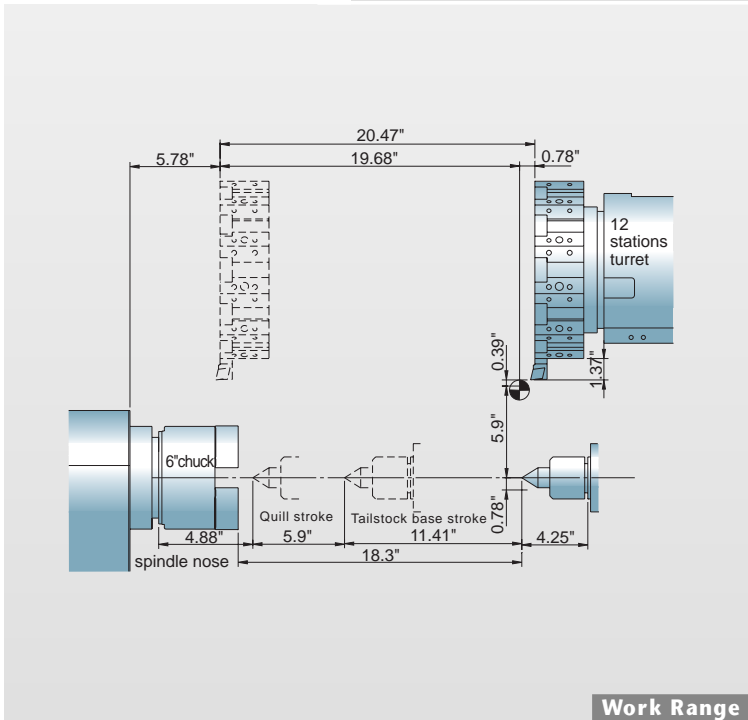
TURRET

A high-speed servo motor indexing system provides the 12-station turret with a 0.2 sec. indexing time. Large diameter high precision couplings and hydraulic clamping is used to enhance tool indexing accuracy and turret head rigidity.

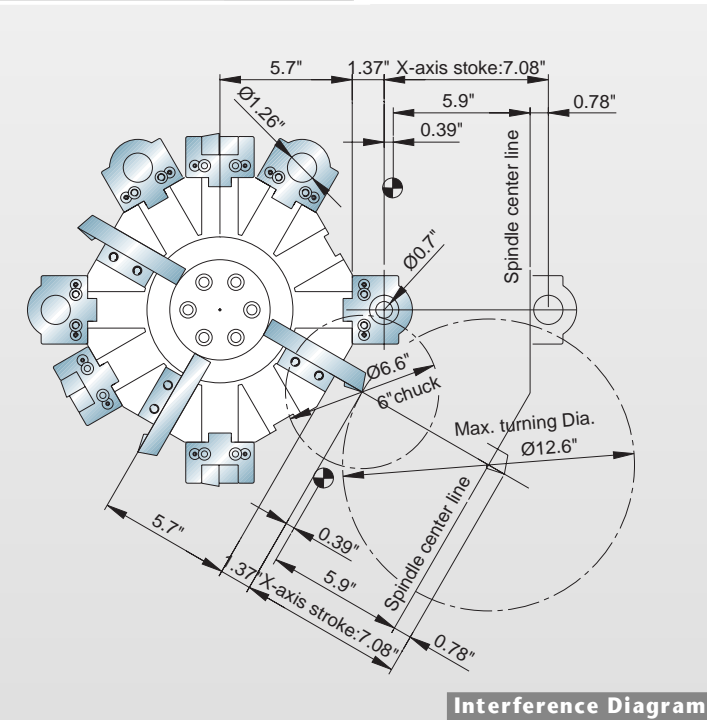




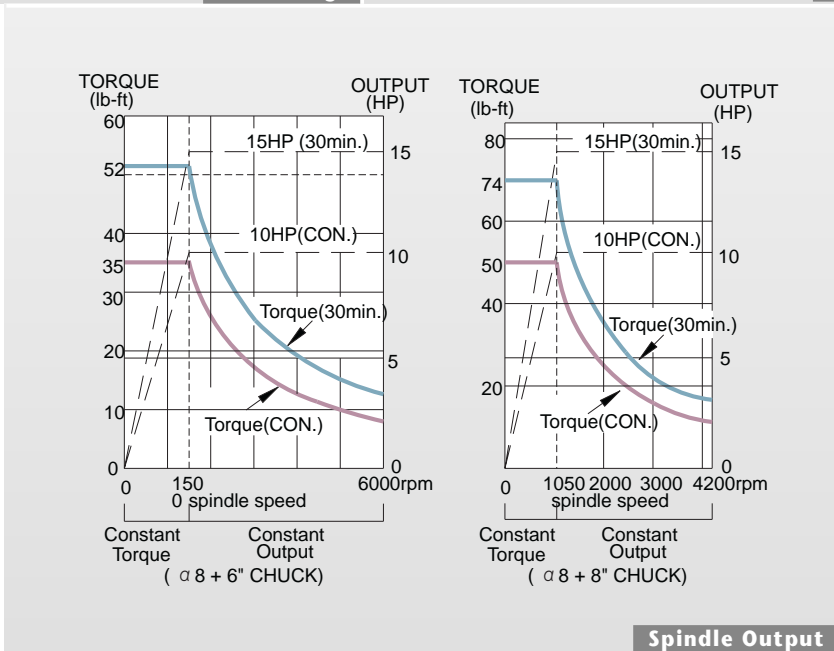
Tooling



Work Range



Interference Diagram



Spindle Output

Accessories

GLS-150

General Features

Accessories

Specifications

TAILSTOCK (OPTION)

Both manual and programmable base tailstock are available. Programmable base tailstock eliminate the burden of manually positioning the tailstock.

TOOL SETTER (OPTION)

By touching the tip of the tool on the probe of the tool setter, the tool offset is automatically inputted into the NC system with repeatability of 0.0002" (0.005mm). Tool wear can also be checked during turning operations.

PARTS CATCHER (OPTION)

- ▶Max. part diameter:Ø2.36" (Ø60 mm)
- ▶Max. part length:7.00" (180 mm)
- ▶Max. part weight:8.8 pounds (4Kg)

BF-65 MAGAZINE BAR FEEDER (OPTION)

A great and economical way to automate you Goodway CNC turning center.

- ▶Bar diameter: Ø0.20"~2.50" (Ø5~65mm) or up to maximum bar capacity of CNC turning center, which ever is smaller.
- ▶Maximum bar length: 4' (1200mm) or up to maximum total spindle length of CNC turning center, which ever is shorter.
- ▶Total weight of bars: 550 pounds (250Kg)
Bar change: 60 sec.



General Specifications

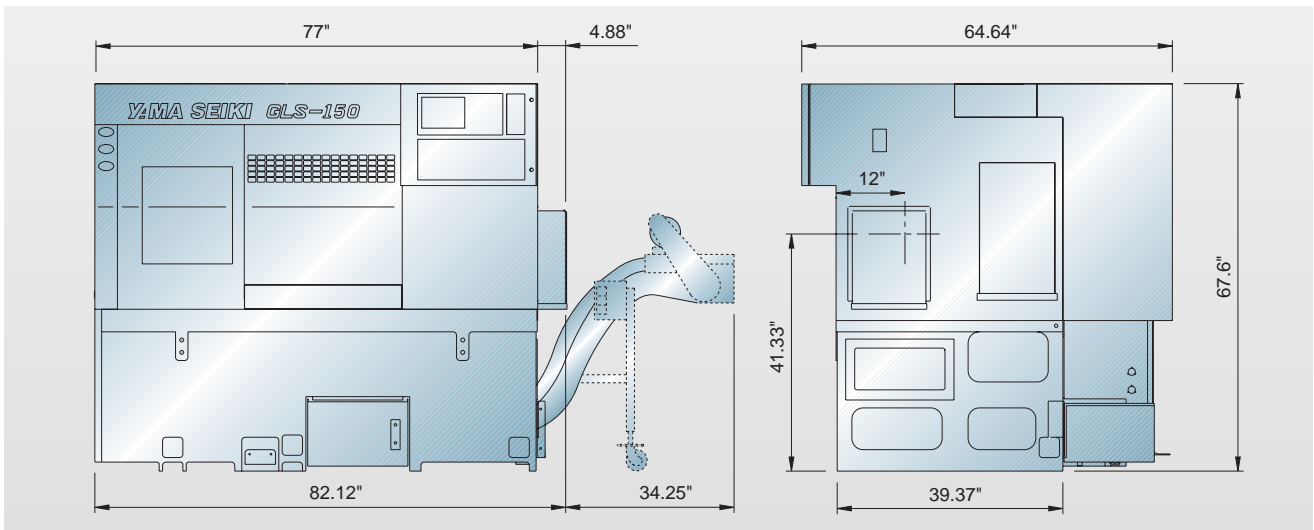
- GLS-150
- General Features
- Accessories
- Specifications

Specification

MODEL	GLS-150	GLS-200
Max swing	18.11" (460mm)	
Swing over saddle cover	14.96" (380mm)	
Max turning length	19.68" (500mm)	
Max turning dia.	12.59" (ø320mm)	
Chuck size	6"	8"
Hole through spindle	2.16" (ø55 mm)	2.59" (ø66 mm)
Bar capacity	1.65" (ø42 mm)	2" (ø51 mm)
Spindle nose to ASA	A2-5	A2-6
Bearing dia. of spindle	3.15" (ø80 mm)	3.93" (ø100 mm)
Spindle speeds(rpm)	60~6000 rpm	42~4200 rpm
Spindle driven motor	α 8 AC 10HP / 14.7HP 30min. (11 KW)	
Feed motor X	α 6/2000 1.4HP	
Feed motor Z	α 6/3000 1.9HP	
Slide travel X	7.08" (180 mm)	
Slide travel Z	20.47" (520 mm)	
Rapid traverse X	787 ipm (20 m/min)	
Rapid traverse Z	1181 ipm (30 m/min)	
Guide way	Linear	
Standard Turret	12 stations	
Tool size square	0.75" (□20 mm)	
Tool size round	1.25" (ø32 mm)	
Tailstock quill center	MT#4	
Hydraulic tank	50 L	
Coolant tank	150 L	
N.W.	3200 KG (7040 lb)	
NC controller	FANUC Oi-T	

※ Note: Specifications subject to change without notice. Not responsible for misprints or typographical errors.

Machine Layout



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