GTS SERIES

Twin Spindles & Turrets CNC Turning Centers

THE ULTIMATE MACHINING POWER

GOODWAY®

GTS series Twin Turrets

TWIN SPINDLES & TURRETS
CNC TURNING CENTER

GTS series

General Features

Accessories & Applications

Specifications

Designed for simultaneous turning of work-pieces within one machines setup. The GTS series incorporates twin-opposing spindles and turrets with C-axis and live tooling capabilities. This configuration allows both turrets to work simultaneously with one turret at each spindle achieving ultimate efficiency.

AVAILABLE

- Twin spindles, twin standard turrets.
- Twin spindles, one live tooling turret & one standard turret.
- Twin spindles, twin live tooling turrets.
- Twin Y-axis.
- C-axis or 1 deg. indexing spindles.

(GTS-150MMX series model shown.)

General Features

GTS series
General Features
Accessories & Applications
Specifications

SPECIFICATION

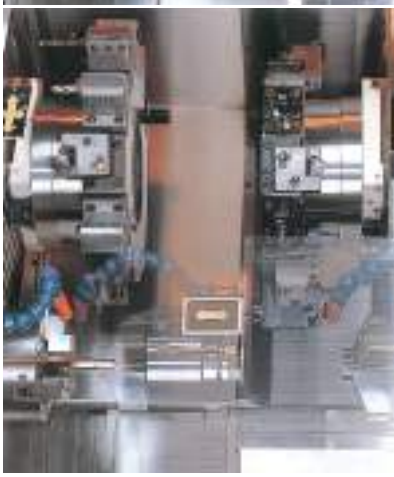
The twin 12 stations turrets provides high speed indexing of 0.2 second from station to station. 1 step indexing further provides faster cycling times. Live tooling turret options enable the use of 6 or 12 live tool positions on each turret.

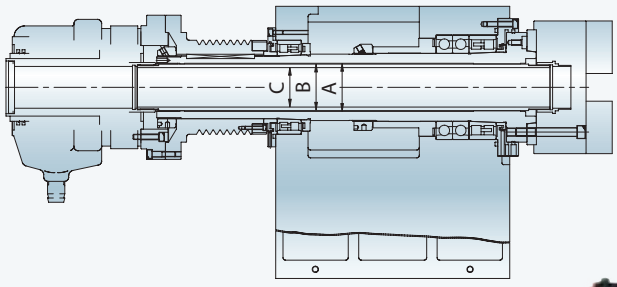
MACHINING CAPABILITIES

Simultaneous turning on both spindles. The second spindle may be used to support longer work pieces during turning with the spindle synchronize RPM feature. The feature is also used when parting bar work. When the machine is incorporated with full C-axis and live tooling, the GTS machines are able to perform the following : OD & face milling, OD & off-center face drilling.

SPINDLES

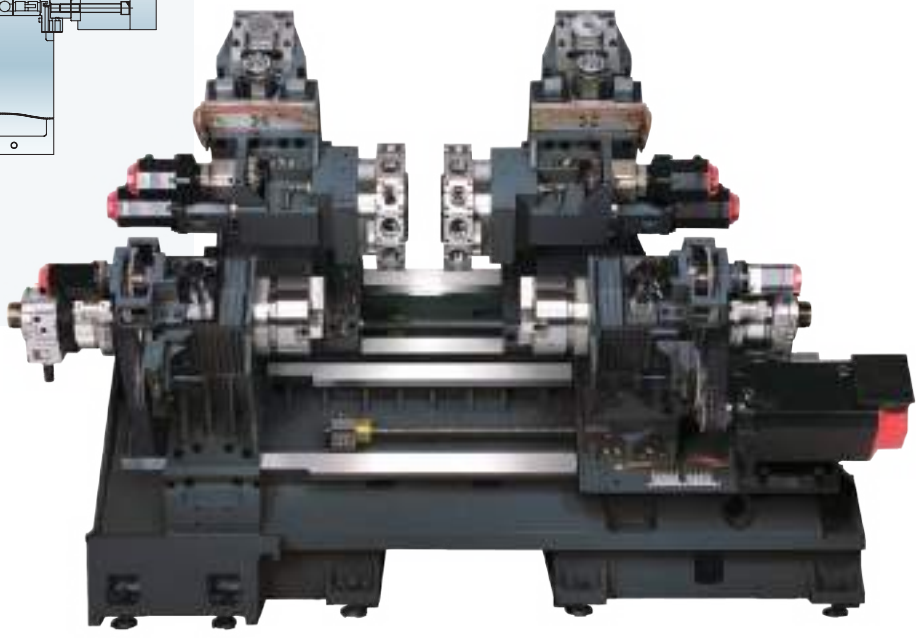
FANUC αPi series wide range spindle motors power both spindles and can be programmed for synchronized turning. The wide range constant output spindle motors provide full power cutting throughout most of the spindle speed range. Pi type motors also have faster acceleration and deceleration to cut down cycle times and torque rating are twice the output of standard αi series motors.



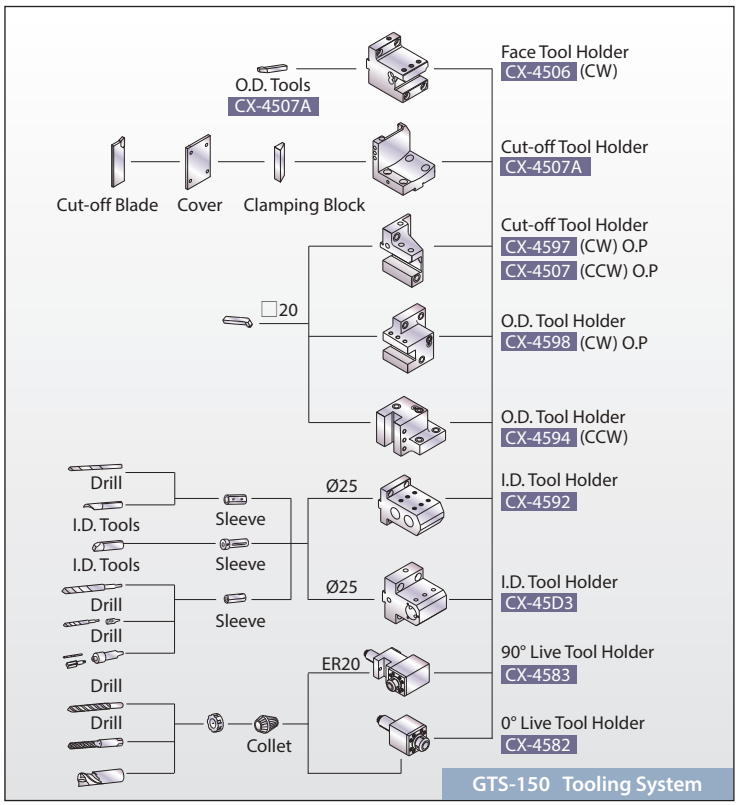


		A	B	C
GTS-150	Spindle 1/2	51	50	43
GTS-200	Spindle 1/2	66	65	52
GTS-260	Spindle 1/2	76	75	66

A : Spindle
B : Draw tube O.D.
C : Draw tube I.D.

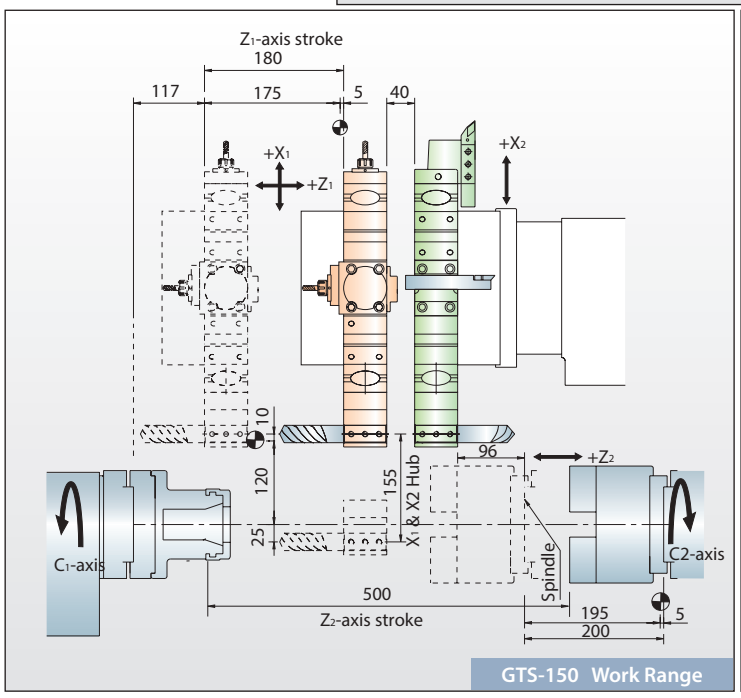


(Casting structure of GTS-260XY series model shown.)

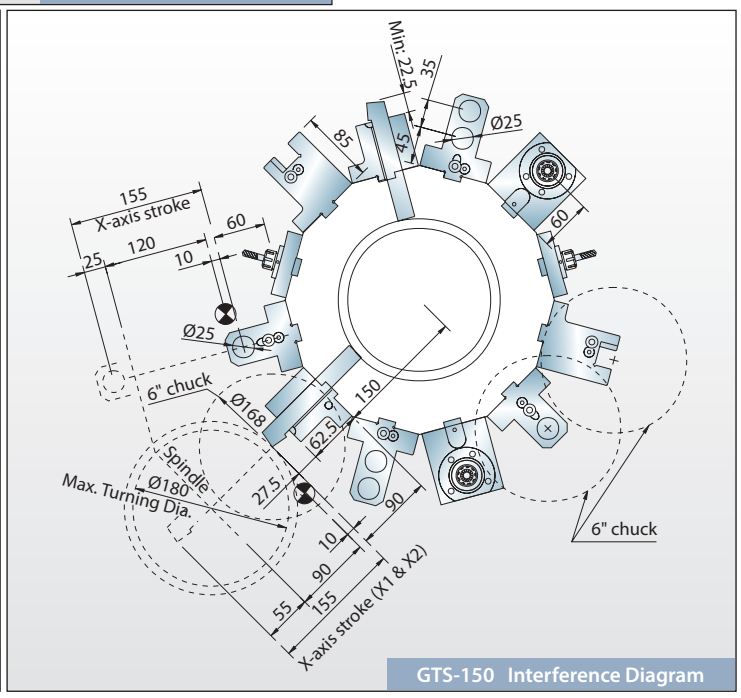


GTS-150 Tooling System

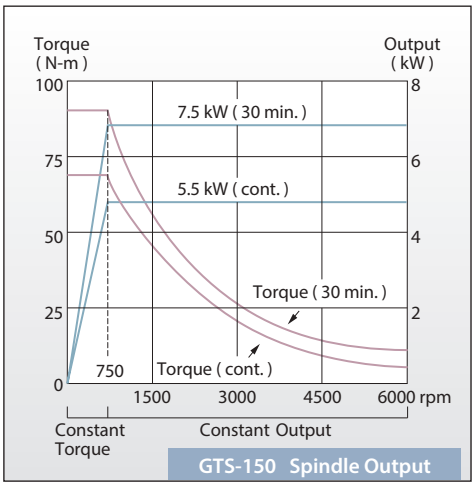
Unit : mm



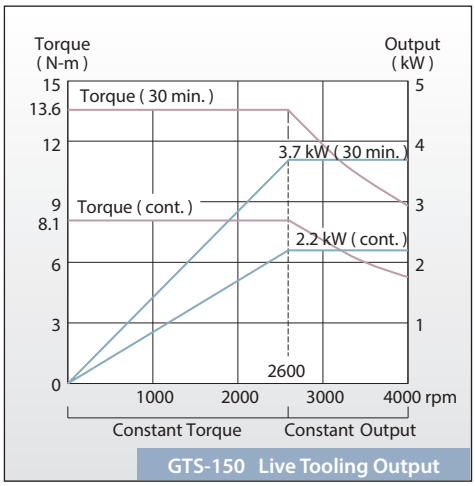
GTS-150 Work Range



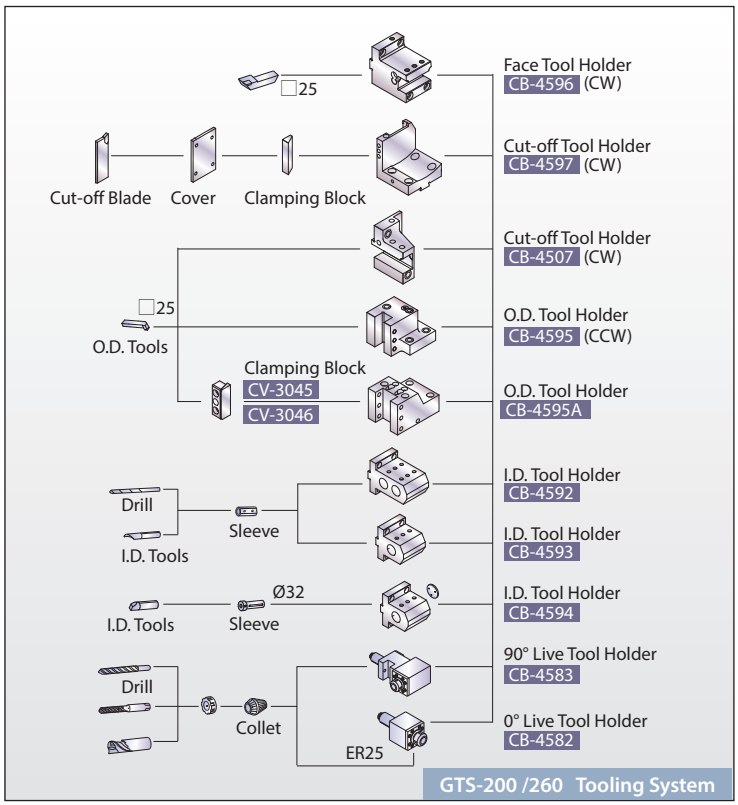
GTS-150 Interference Diagram



GTS-150 Spindle Output

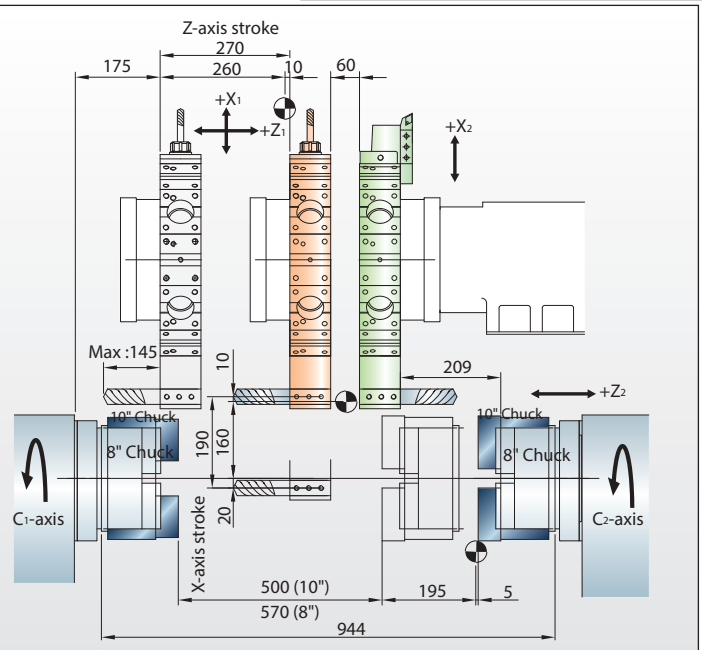


GTS-150 Live Tooling Output

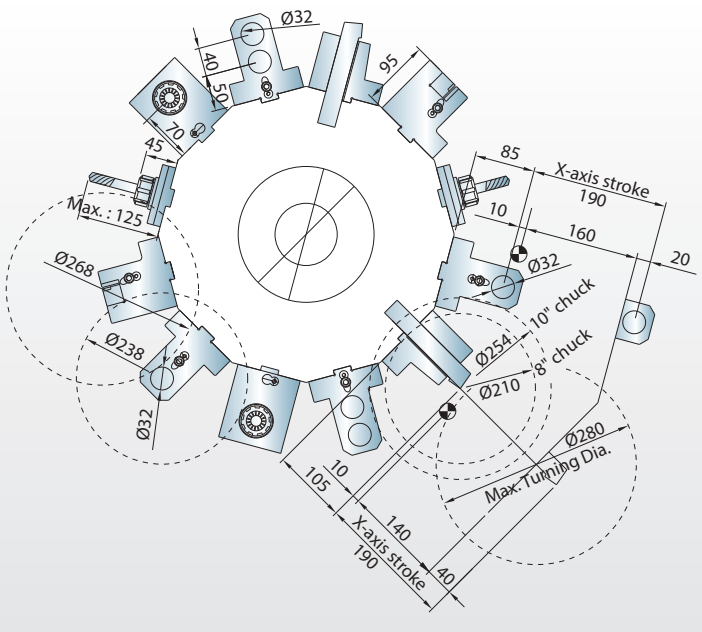


GTS-200 /260 Tooling System

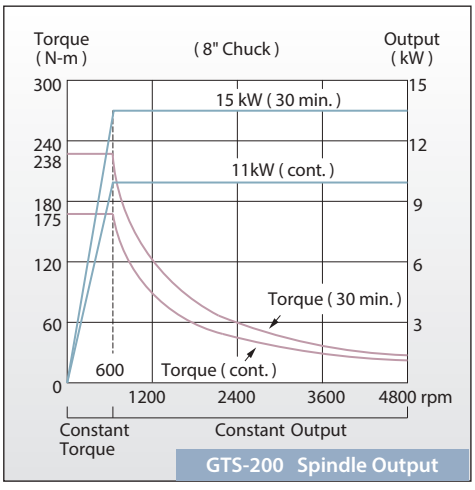
Unit : mm



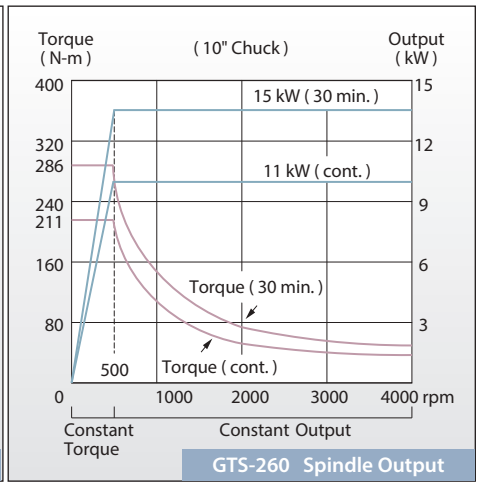
GTS-200 / 260 Work Range



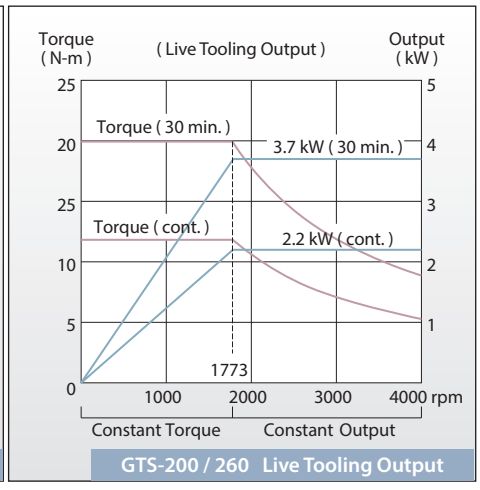
GTS-200 / 260 Interference Diagram



GTS-200 Spindle Output

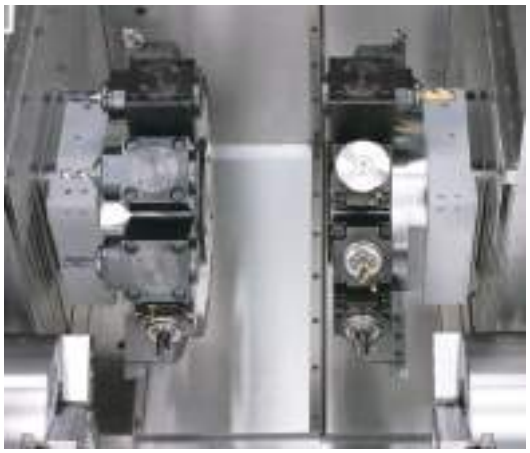


GTS-260 Spindle Output



GTS-200 / 260 Live Tooling Output

Accessories & Applications

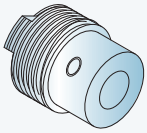


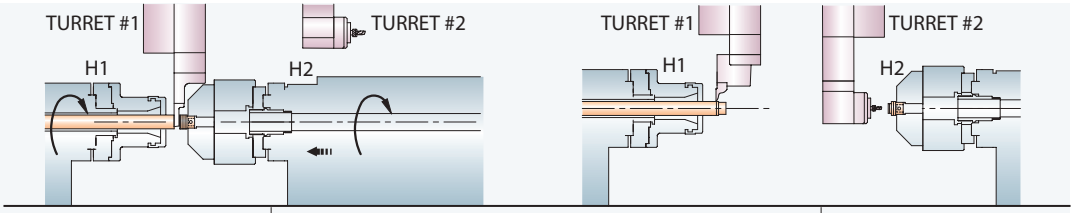
▶ GTS-200 series Live Tooling Turrets

▶ RENISHAW HPRA Toolsetter

▶ Parts Conveyor

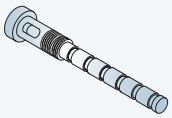
1. Small Parts

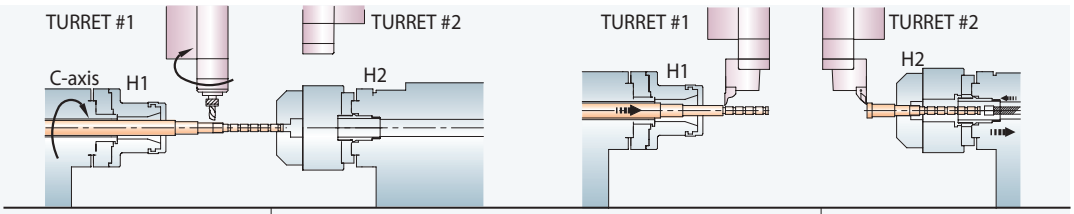




H1 Cut Off	H2 Work-piece Support	H1 Load Bar	H2 Turn / Mill Operation
• Synchronization cut off.	• Spindle stop. • H2 advance with chuck open. • Chuck close. • Synchronization cut off. • H2 retract after cut off.	• Spindle stop. • Collect chuck open. • Load Bar. • Collect chuck close. • Spindle run. • O.D. and Thread machining.	• Turning / drilling. • Milling. • Eject to parts catcher.

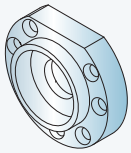
2. Long Parts

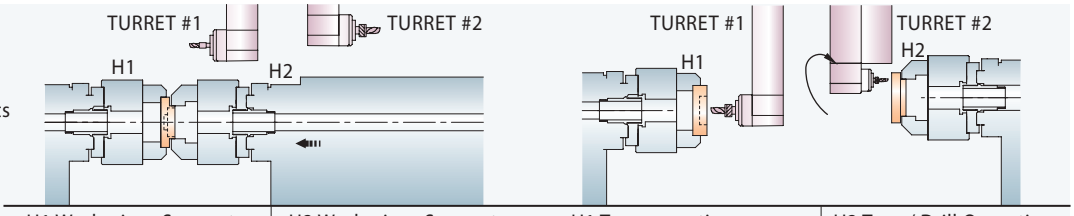




H1 Drilling	H2 Work-piece Support	H1 Load Bar	H2 Turn / Mill Operation
• C-axis brake. • Drilling. • Cut off work-piece.	• Chuck hold work-piece.	• Collect chuck open. • Load Bar. • Collect chuck close. • O.D. and Thread machining.	• End face and O.D. machininig. • Finished.

3. Casting / Forge Parts





H1 Work-piece Support	H2 Work-piece Support	H1 Turn operation	H2 Turn / Drill Operation
• Work-piece finished in H1. • Spindle stop / chuck open. • Load new work-piece / chuck close.	• Spindle stop. • H2 advance with chuck open. • H2 retract after cut off.	• Synchronization. • O.D. machining. • Bore machining.	• END face and O.D. machining. • Drilling • Finished.

Specifications

GTS series
General Features
Accessories & Applications
Specifications

Specifications

MODEL	GTS-150		GTS-200 / 260	
Max. swing diameter	Ø 180 mm		Ø 280 mm	
Swing over saddle	Ø 180 mm		Ø 280 mm	
Max. turning diameter	Ø 180 mm		Ø 280 mm	
Max. turning length	180 mm		200 mm	
SPINDLE				
Chuck size	6"		8" / 10"	
Bar capacity	Ø 42 mm		Ø 51 / 65 mm	
Hole through spindle	Ø 51 mm		Ø 66 / 76 mm	
Spindle nose	A2-5		A2-6 / A2-8	
Spindle speed range	6,000 rpm		4,800 / 4,000 rpm	
Motor output (cont. / 30 min.)	5.5 / 7.5 kW		11 / 15 kW	
X & Z AXES				
X_1 / X_2 axes travel	155 mm		190 mm	
Z_1 / Z_2 axes travel	180 / 500 mm		270 / 740 mm	
X_1 / X_2 axes rapids	15 m/min.		20 m/min.	
Z_1 / Z_2 axes rapids	36 m/min.		24 m/min.	
Slide way type (All axes)	linear guide way		Box way	
X_1 / X_2 / Z_1 / Z_2 servo motors	1.6 kW		3 kW	
X_1 / X_2 axes ball screw Ø [pitch]	Ø 32 mm [6 mm]		Ø 32 mm [10 mm]	
Z_1 / Z_2 axes ball screw Ø [pitch]	Ø 32 mm [12 mm]		Ø 36 mm [10 mm]	
TURRET				
Stations	12		12	
OD / ID tool shank size	□ 20 mm / Ø 25 mm		□ 25 mm / Ø 32 mm	
LIVE TOOLING TURRET (OPTIONAL)				
Max. turning diameter	Ø 180 mm		Ø 280 mm	
Max. turning length	180 mm		200 mm	
Live tooling stations	6	12	6	12
Live tooling shank size	Ø 13 mm (ER20)	Ø 16 mm (ER25)	Ø 16 mm (ER25)	Ø 20 mm (ER32)
Live tooling RPM range	4,000 rpm		4,000 rpm	
TWIN Y-AXIS (OPTIONAL)				
Swing over saddle	Ø 180 mm		Ø 280 mm	
Max. turning length	180 mm		200 mm	
X_1 / X_2 axes travel	160 mm		220 mm	
Z_1 / Z_2 axes travel	210 / 600 mm		270 / 740 mm	
Y_1 / Y_2 axes travel	± 30 mm		± 60 mm	
Y_1 / Y_2 axes rapids	10 m/min.		10 m/min.	
Slide way type	Box way (X / Y axes)		Box way	
Y_1 / Y_2 axes servo motor	1.6 kW AC Absolute		1.6 kW AC Absolute	
Y_1 / Y_2 axes ball screw Ø / pitch	Ø 32 mm / Pitch 6		Ø 32 mm / Pitch 6	
GENERAL				
Standard CNC control	FANUC O*i*-TF *1		FANUC O*i*-TF *1	
Hydraulic tank capacity	50 L		30 L	
Coolant tank capacity	140 L		150 L	
Machine weight	5,000 Kg		7,800 Kg	
Dimensions L x W x H	2,450 x 1,700 x 1,850 mm		3,035 x 1,940 x 1,985 mm	

Specifications are subject to change without notice.

*1 Y-axis model need to use FANUC 31*i* controller.

THE ULTIMATE MACHINING POWER

GOODWAY®

GOODWAYCNC.com

GOODWAY MACHINE CORP.

HEADQUARTERS

No.13, 5Th Road,
Taichung Industrial Park,
Taichung City, 407, Taiwan, R.O.C.
E-mail : goodway@goodwaycnc.com

CENTRAL TAIWAN SCIENCE PARK BRANCH

No. 38, Keyuan Road,
Central Taiwan Science Park.Taichung,
Taichung City, 407, Taiwan, R.O.C.
TEL : + 886-4-2463-6000
FAX : + 886-4-2463-9600

GOODWAY MACHINE (WUJIANG) CO.,LTD

No. 4888, East Lake Taihu Avenue, Wujiang
Economic and Technological Development Zone,
Jiangsu, China
Sales Hotline : + 86-512-8286-8068
Service Hotline : + 86-512-8286-8066
FAX : + 86-512-8286-8620
E-mail : goodway.wj@goodwaycnc.com

Copyright 2015 by Goodway Machine Corp. All right reserved

G-GTS-EN-201508

THE ULTIMATE MACHINING POWER

GOODWAY®

GOODWAYCNC.com

GOODWAY MACHINE CORP.

HEADQUARTERS

No.13, 5Th Road,
Taichung Industrial Park,
Taichung City, 407, Taiwan, R.O.C.
E-mail : goodway@goodwaycnc.com

CENTRAL TAIWAN SCIENCE PARK BRANCH

No. 38, Keyuan Road,
Central Taiwan Science Park.Taichung,
Taichung City, 407, Taiwan, R.O.C.
TEL : + 886-4-2463-6000
FAX : + 886-4-2463-9600

GOODWAY MACHINE (WUJIANG) CO.,LTD

No. 4888, East Lake Taihu Avenue, Wujiang
Economic and Technological Development Zone,
Jiangsu, China
Sales Hotline : + 86-512-8286-8068
Service Hotline : + 86-512-8286-8066
FAX : + 86-512-8286-8620
E-mail : goodway.wj@goodwaycnc.com

Copyright 2015 by Goodway Machine Corp. All right reserved

G-GTS-EN-201508