



Gang Type CNC Turning Center

KIT Series

The Best Suitable for Automation Line Gang Type CNC Lathe



BASIC STRUCTURE

- Bed
- Guide Way



Spindle & Block Tool

- Gearless Type Spindle
- High Frequency Spindle Motor

Automation/Process Integration, Easy to Operate
Gang Type Lathes

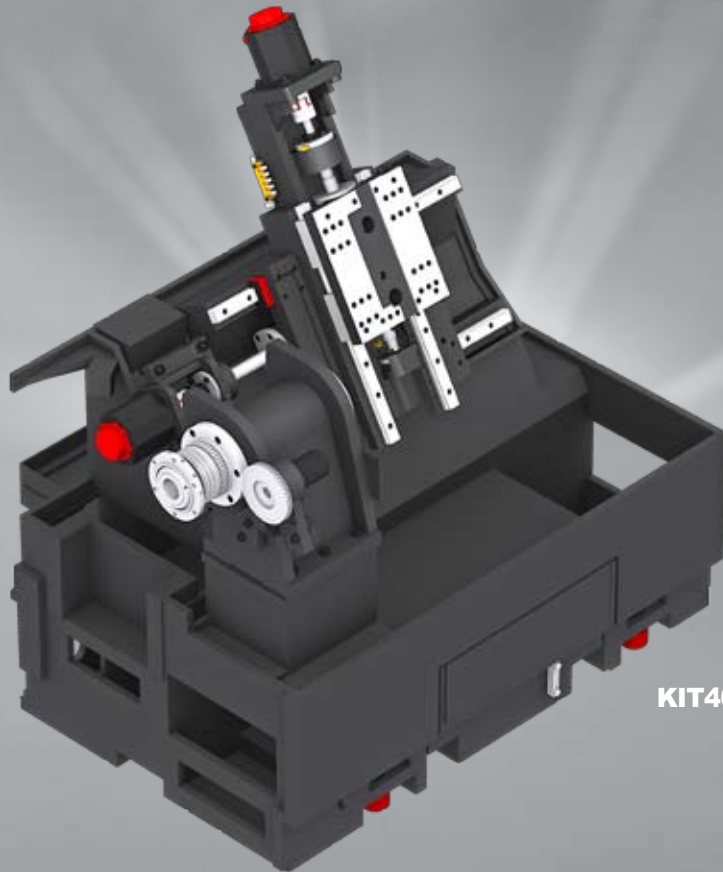
KIT Series

- Variety Accessories, Robot System Application (ex: KN Robot)
- Variety Optional figures are available, Auto Loader/Bar Feeder/ Parts Catcher etc.
- Slant bed design gives better access to tool holder, and chuck. Also, this design is more efficient to remove chips.
- Locate chip box at the front or sides
- For operator's convenient, multi purpose tool box and used lubrication collect box are equipped



BASIC STRUCTURE

The Best Suitable for Automation Line Gang Type CNC Lathe



KIT400/450

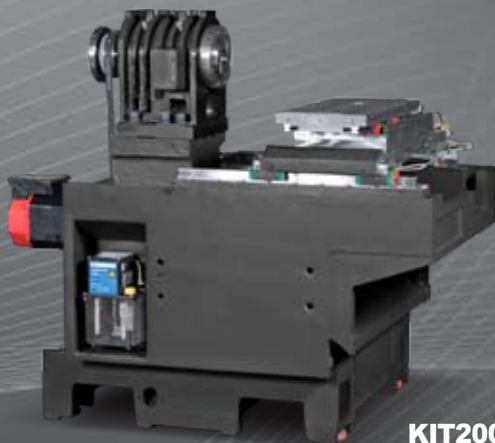
All-in-one Type of Bed

As it has been designed as all-in-one bed structure, it has excellent in vibration absorption ability and guarantees the high level of processing.

In particular, it is able to keep the continuous acceleration as it has been designed in a structure to minimize the heat transformation occurred during processing process.

Slant Type Bed

It is easy to access to chuck and the effectiveness and convenience of chip treatment have been increased when setting the tools if the 60° tilted bed is applied.



KIT200/250

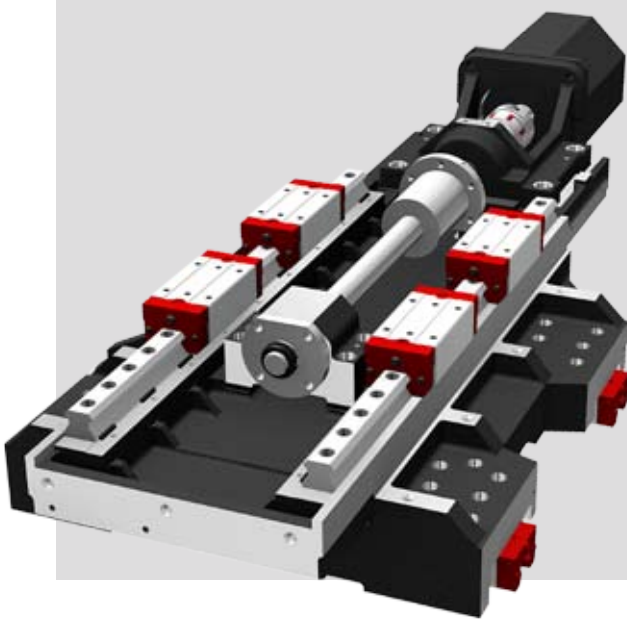
Bed Flushing - KIT250

It is able to effectively handle the chip trouble occurred during the processing by attaching the bed flushing unit as a standard.

Flat Type Bed

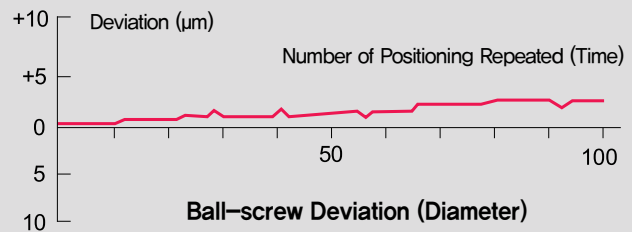
When the gang tool is attached to the flat type of bed, it guarantees the high precision of processing.

Slide Way



Pre-tensioned & Double Anchored Ball Screw

Each axes are designed with a large diameter ball-screw, fixed by double anchors on both ends to provide high rigidity and minimize thermal distortion.



LM Guide & Compact CNC Lathe

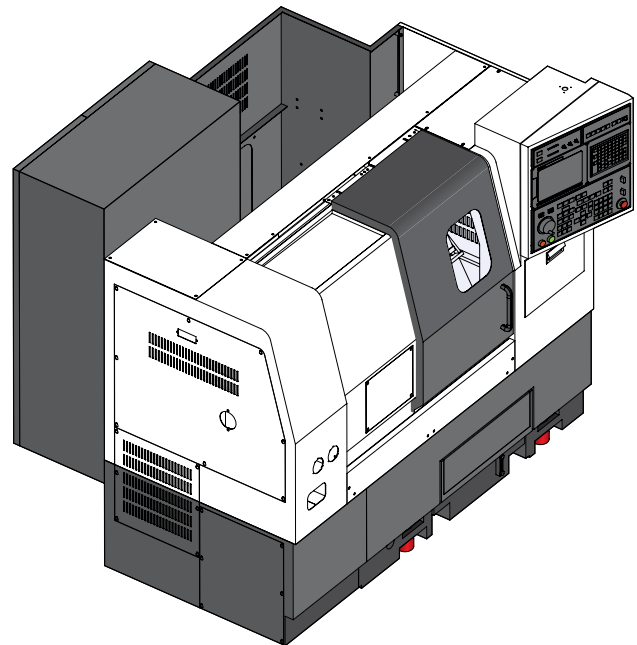


LM Guide for Full Axis

The noise occurred during transmission as the LM guide which is excellent in response is applied and the specific cutting time has been minimized with an excellent transmission speed.

Specification of Feed Axis

ITEM		KIT200	KIT250
Travel (X/Z)	mm(in)	450/300 (17.7"/11.8")	250/200 (9.8"/7.9")
Rapid Travel (X/Z)	m/min	30/36	24/30
Slide Type	-	LM GUIDE	LM GUIDE
ITEM		KIT400	KIT450
Travel (X/Z)	mm(in)	400/250 (15.7"/9.8")	450/300 (17.7"/11.8")
Rapid Travel (X/Z)	m/min	30/36	30/36
Slide Type	-	LM GUIDE	LM GUIDE



Compact Machine Size

As it has been designed in compact structure, it is possible to install even in the narrow spaces and the effectiveness has been increased when it is attached to automation system.

Photograph of Door window

With external open structure considering of operation and maintenance of machine, the convenience has been increased.

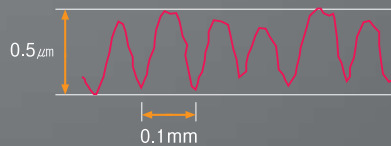
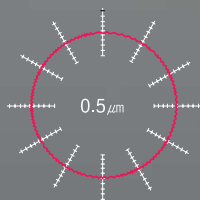
Spindle & Block Tool

Gang Type Block Tool

With maximization of machine running time with the tool selection time saved, the productivity has been improved during production processing process for small sized parts.

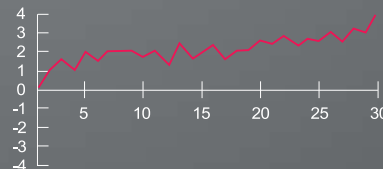
Cutting Condition

Spindle Speed	1,500 r/min
Material	AL
Nose R of diamond tool	R 0,8 (R 0.0315")
Depth of cut	0.02mm (0.0008")
Feedrate	0.03mm/rev (0.0118 in/rev)
Dia. of work	Ø30mm (Ø1.1811")

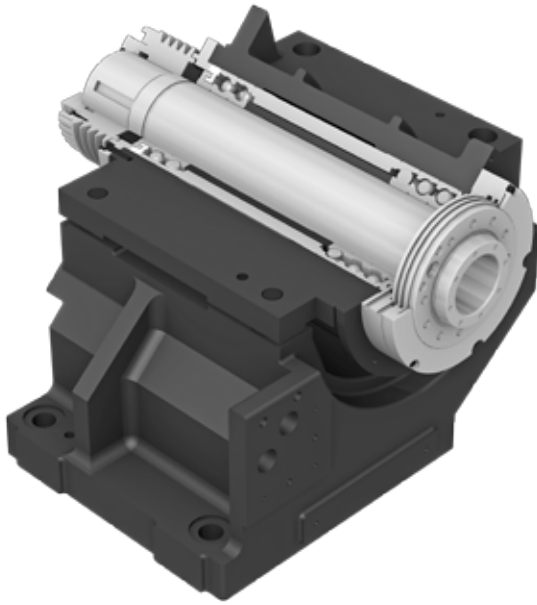


Cutting Condition

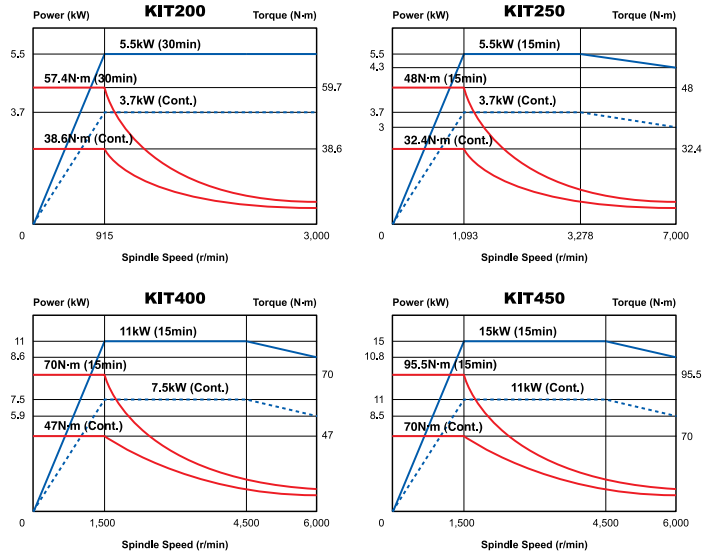
Spindle Speed	2,300 r/min
Material	Brass
Depth of cut	1.5mm (0.059")
Feed	0.3mm/rev (0.0118 in/rev)
Coolant	Use
Dia. of work	Ø42(1.6") [2 pass cut]



Spindle



Power & Torque Diagram



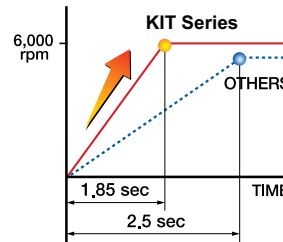
Thermally Symmetrical Headstock & Gearless Type Spindle

The high level of spindle stock designed in gearless way decreases the temperature rise by adapting the angular contact ball bearing so that there is little heat transformation within the scope of total rotation numbers, and it is possible to perform the precise processing of surface by minimizing the heat transformation even in high rotational speed.

PCD Processing

It is able to perform PCD processing using a high frequency of spindle when selecting the C axis control function as an option.

Acceleration/Deceleration Time



Time saving when the spindle stock is stop

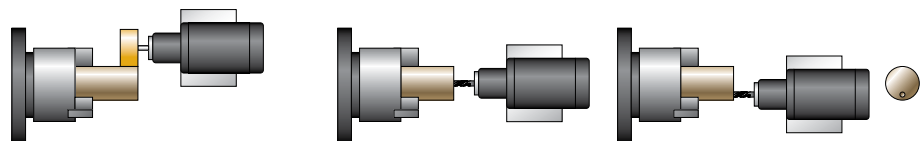
The maneuver and dwell time has been innovatively saved compared to the existing model by adapting a high performance of AC spindle motor.

ITEM		KIT200	KIT250	KIT400	KIT450
Chuck Size	inch	5"	5"	6"	6"
Spindle Bore	mm(in)	∅42 (1.65")	∅42 (1.65")	∅54 (2.13")	∅52 (2.05") [∅53 (2.09")]
Spindle Speed (rpm)	r/min	3,000	50~7,000	60~6,000	50~6,000
Output (Max./Cont.)	kW(HP)	5.5/3.7 (7.5/5)	5.5/3.7 (7.5/5)	11/7.5 (15/10) [12.5/7 (17/9.4)]	15/11 (20/15 [12/9 (16/12)]
Torque (Max./Cont.)	N-m	57.4/38.6	48/32.4	70/47 [92.8/52]	95.5/70 [76.4/57.3]
Spindle Type	-	BELT	BELT	BELT	BELT
Spindle Nose	-	FLAT ∅110	FLAT ∅110	A2-5	A2-5

Mounting of High Frequency Spindle Motor



By preparing for high frequency spindle as an option, the processing area has been increased. **(it is possible to attach 2 set in max.)**



Drill/PCD Processing : As it is able to perform the drilling and PCD processing using a high frequency of spindle, the processing width has increased.

Specification of Block Tool

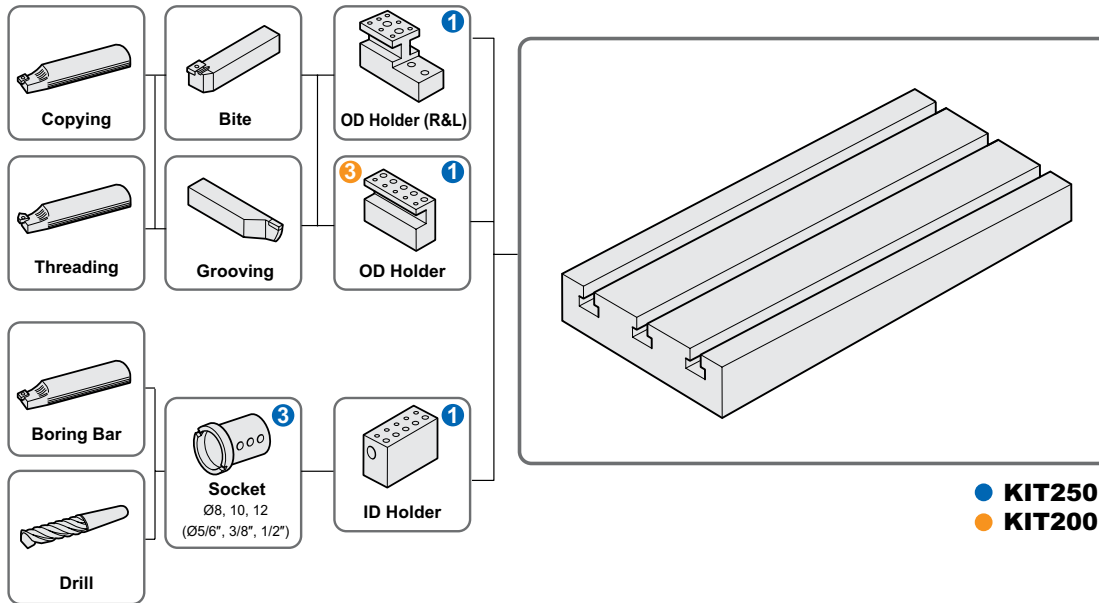
ITEM		KIT200	KIT250	KIT400	KIT450
No. of Tool	EA	3	4	6	6
Tool Size	OD mm(in)	∅20(0.8")	∅20(0.8")	∅20(0.8")	∅20(0.8")
	ID mm(in)	∅25 (1")	∅25 (1")	∅25 (1")	∅32 (1.3")

Specifications

unit : mm(in)

Tooling System

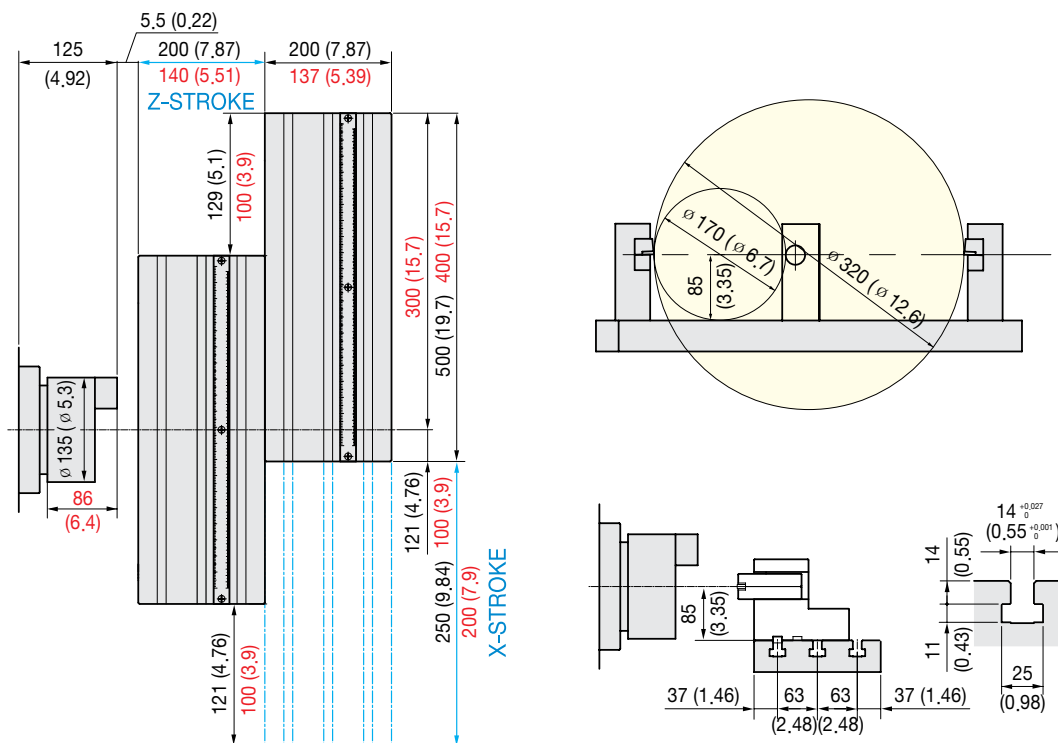
KIT200 / KIT250



unit : mm(in)

The Stroke of Table

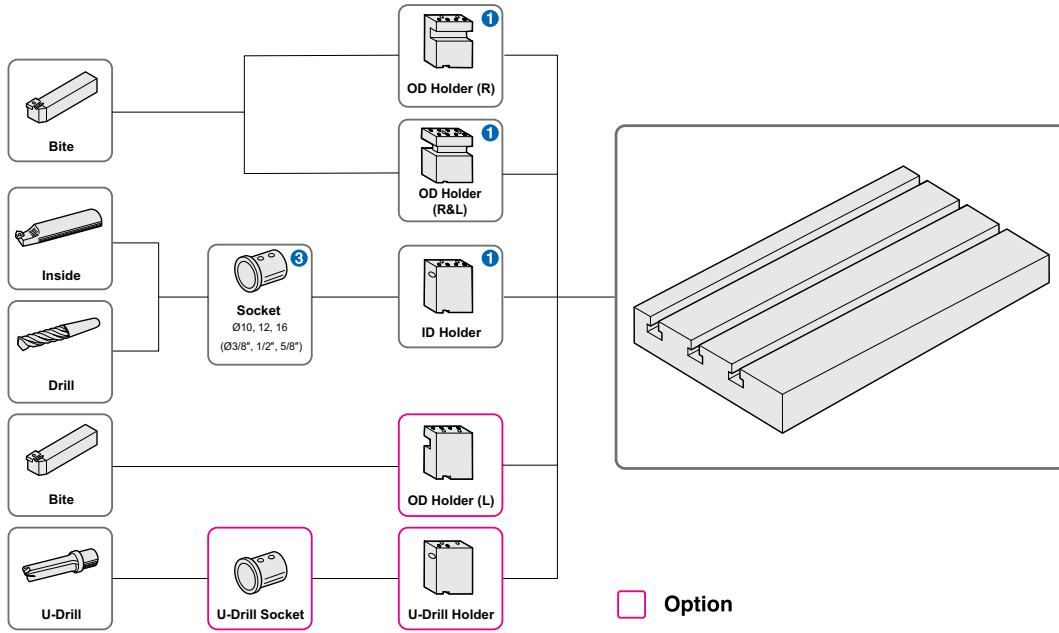
KIT250 / KIT200



unit : mm(in)

Tooling System

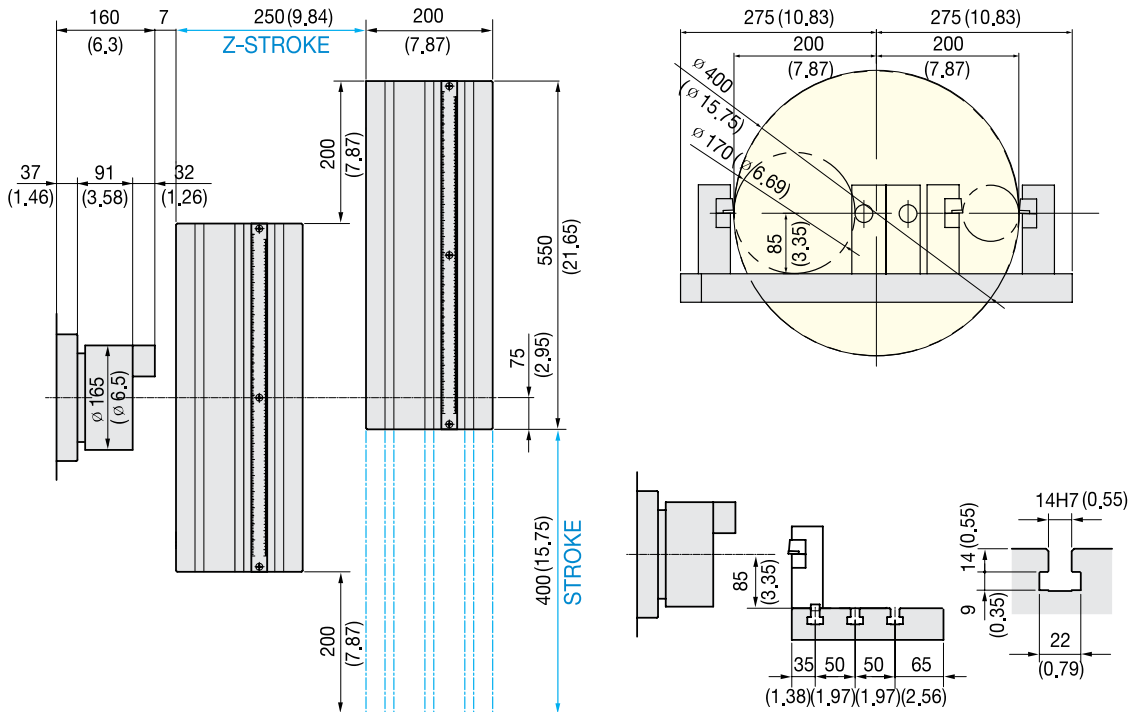
KIT400



unit : mm(in)

The Stroke of Table

KIT400

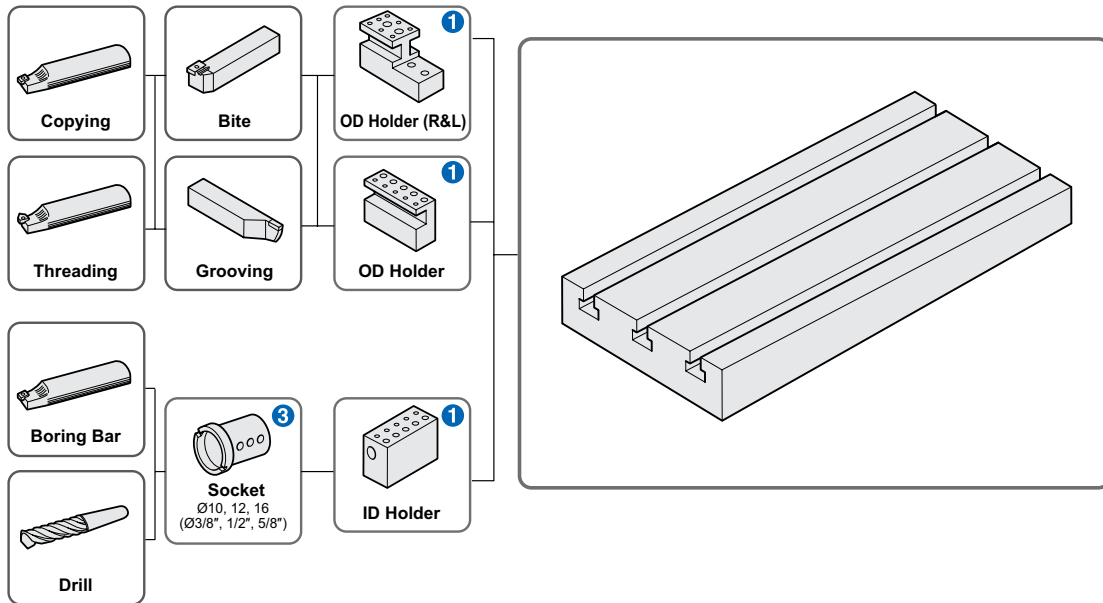


Specifications

unit : mm

Tooling Travel Range

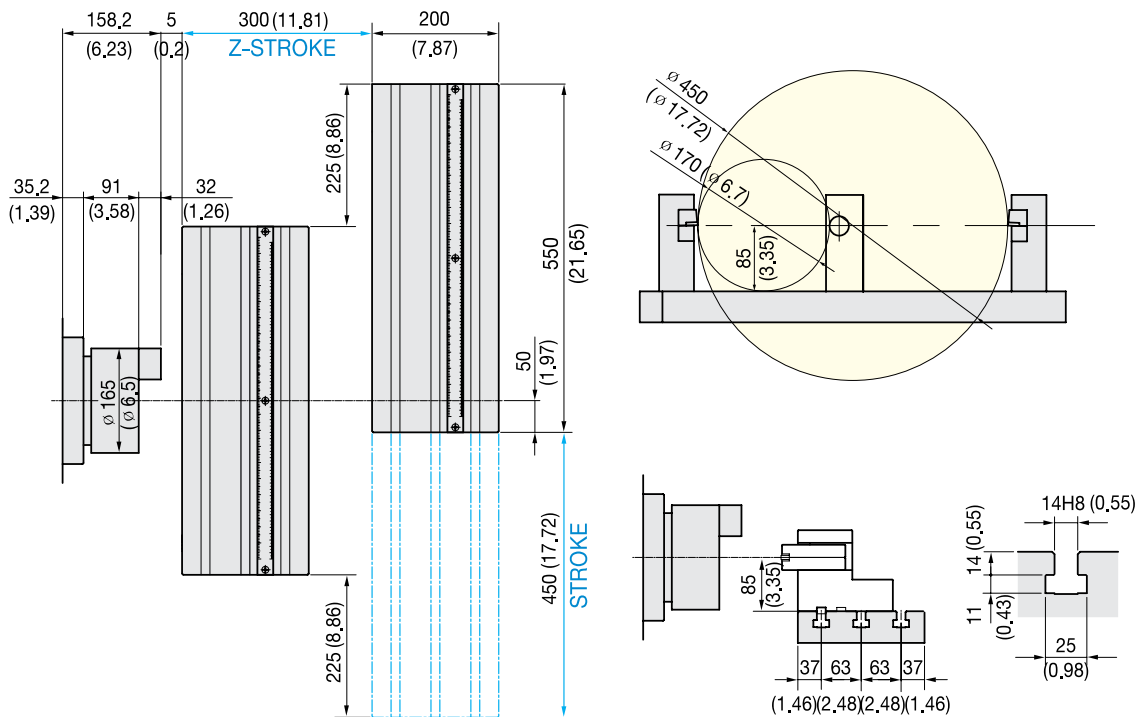
KIT450



unit : mm

The Stroke of Table

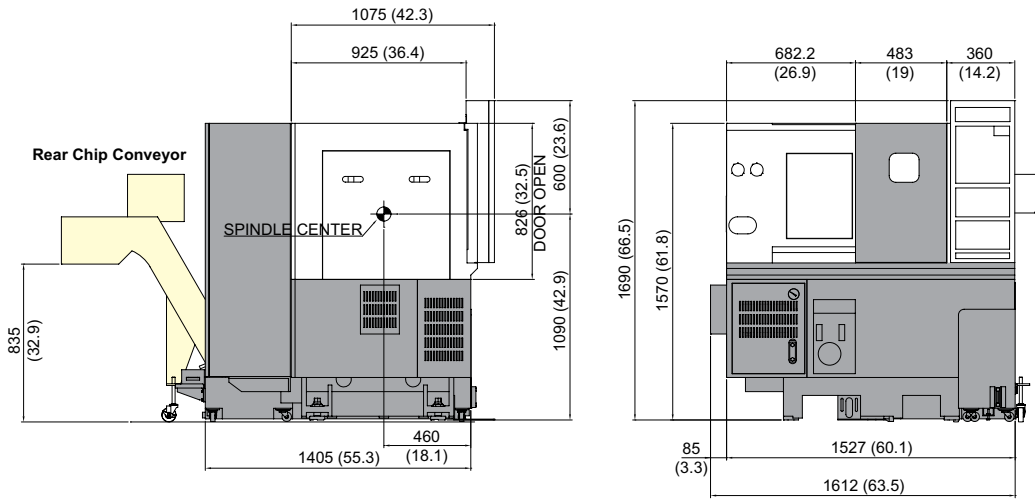
KIT450



unit : mm

External Dimensions

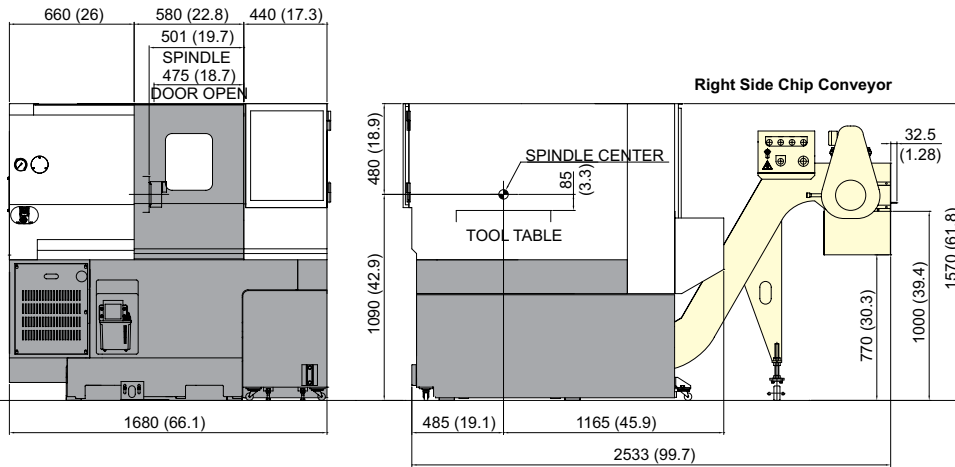
KIT200



unit : mm

External Dimensions

KIT250

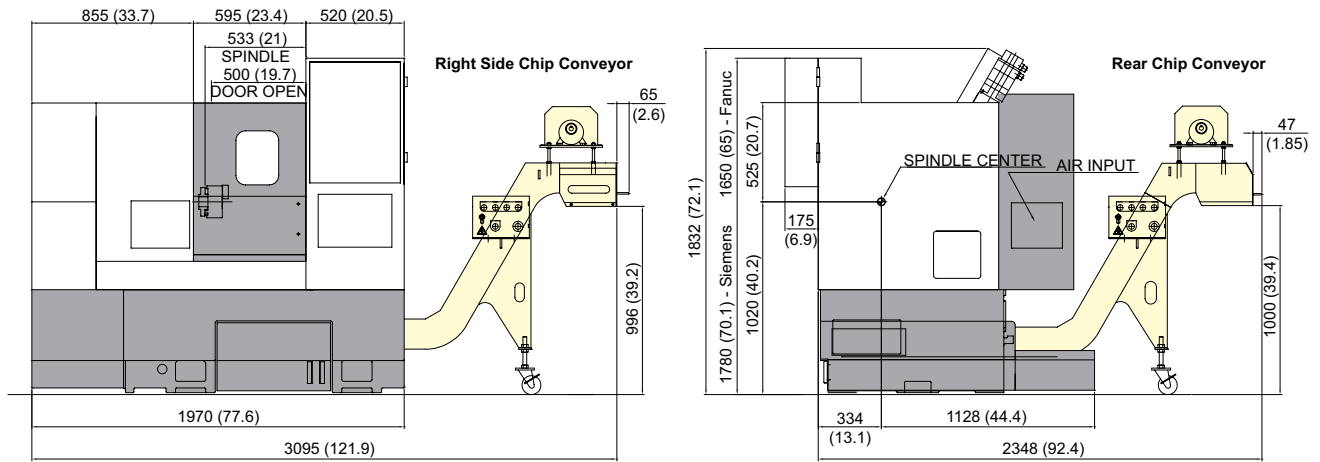


Specifications

unit : mm

External Dimensions

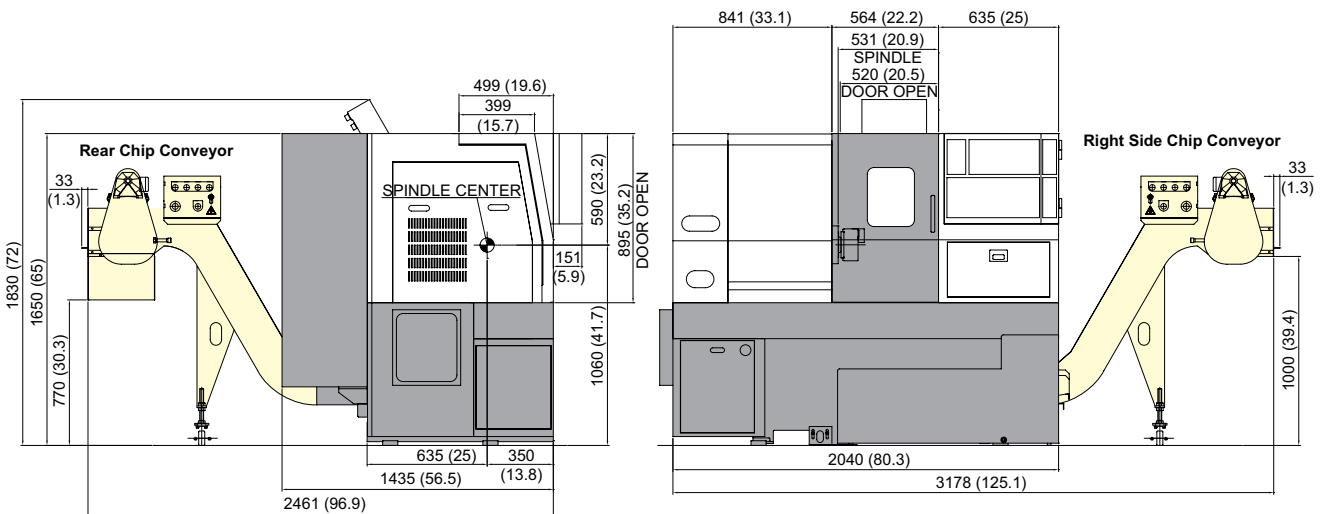
KIT400



unit : mm

External Dimensions

KIT450



Specifications

ITEM			KIT200	KIT250	KIT400	KIT450
CAPACITY	Swing Over the Bed	mm(in)	ø320 (12.6")		ø510 (20.1")	ø530 (20.9")
	Max. Turning Dia.	mm(in)	ø160 (6.3")		ø165 (6.5")	
	Max. Turning Length	mm(in)	90 (3.5")	150 (5.9")	270 (10.6")	325 (12.8")
	Bar Capacity	mm(in)	ø32 (1.3")		ø45 (1.8")	
SPINDLE	Chuck Size	mm(in)	ø135 (5.3")		ø165 (6.5")	
	Spindle Bore	mm(in)	ø42 (1.65")		ø54 (2.13")	ø52 (2.05") [ø53 (2.09")]
	Spindle Speed (rpm)	r/min	3,000	50~7,000	60~6,000	50~6,000
	Motor (Max/Cont.)	kW(HP)	5.5/3.7 (7.4/5)		11/7.5 (15/10) [12.5/7 (17/9.4)]	15/11 (20/15) [12/9 (16/12)]
	Torque (Max/Cont.)	N.m	57.4/38.6	48/32.4	70/47 [92.8/52]	95.5/70 [76.4/57.3]
	Spindle Type	-	BELT			
	Spindle Nose	-	FLAT ø110		A2-5	
FEED	Travel (X/Z)	mm(in)	200/140 (7.9"/5.5")	250/200 (9.8"/7.9")	400/250 (15.7"/9.8")	450/300 (17.7"/11.8")
	Rapid Travel (X/Z)	m/min	24/30		30/36	
	Slide Type	-	LM GUIDE			
BLOCK TOOL	No. of Tool	EA	3	4	5	6
	Tool Size	OD	ø20×20 (ø1"×1")			
		ID	ø25 (1")		ø32 (1.3")	
TANK CAPACITY	Coolant Tank	ℓ (gal)	80 (21.1)	95 (25.1)	120 (31.7)	
	Lubricating Tank	ℓ (gal)	1.8 (0.48)			
POWER SUPPLY	Electric Power Supply	kVA	20			
	Thickness of Power Cable	Sq	OVER 16			
	Voltage	V/Hz	220/60 (200/50)			
MACHINE	Floor Space (L×W)	mm(in)	1,612×1,405 (63.5"×55.3")	1,680×1,696 (66.1"×66.8")	1,970×1,637 (77.6"×64.4")	2,100×1,435 (82.7"×56.5")
	Height	mm(in)	1,690 (66.5")	1,570 (61.8")	1,832 (72.1")	1,830 (72")
	Weight	kg(lb)	1,600 (3,527)	1,900 (4,189)	2,500 (5,512)	2,700 (5,952)
NC	Controller	-	SIEMENS 802D	HYUNDAI WIA FANUC i Series	HYUNDAI WIA FANUC i Series [SIEMENS 802D]	

❖ Specifications are subject to change for improvement without notice.

[] : Option

Standard & Optional

Spindle & Chuck		KIT200	KIT250
Main Spindle Hollow Chuck 3 Jaw	5"	●	●
	6"	☆	○
Main Spindle Solid Chuck 3 Jaw	5"	○	○
	6"	☆	○
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Chuck Open/Close Confirmation Device		○	○
2 Steps Chuck Foot Switch		○	○
Spindle Inside Stopper		☆	☆
5" Index		○	○
Cs-Axis (0,001")		☆	☆
Block Tool			
Tool Holder		●	●
Boring Sleeve		●	●
Drill Socket		●	●
U-Drill Holder		☆	☆
U-Drill Holder Sleeve		☆	☆
Rotating Tool Head (XZ Axis)		☆	☆
Tail Stock & Steady Rest			
Manual Tail Stock		X	X
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Chuck Air Blow (Upper Chuck)		○	○
Air Gun		○	○
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar	○	○
Power Coolant System (For Automation)		☆	☆
Bed Coolant		○	○
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	80 ℓ	●	-
	95 ℓ	-	●
Chip Conveyor (Hinge/Scraper)	Front (Right)	X	X
	Rear (Rear)	○	○
Special Chip Conveyor (Drum Filler)		☆	☆
Chip Box	Standard (180 ℓ)	○	○
	Swing (200 ℓ)	○	○
	Large Size (330 ℓ)	☆	☆
	Customized	☆	☆
Safety Device			
Door Inter-Lock		●	●
Total Splash Guard		●	●
Chuck Pressure Failure Detector		○	○
Back Spin Torque Limiter (BST)		☆	●
Torque Limiter		☆	☆
Electric Device			
Call Light	1 Color : ●	●	●
Call Light	3 Color : ●●●	○	○
Call Light & Buzzer	3 Color : ●●●B	○	○
Electric Cabinet Light		○	○
Remote MPG		X	X
Spindle Load Meter (LED Type)	FANUC	○	○
	SIEMENS	X	X
Spindle RPM Meter (LED Type)	FANUC	○	○
	SIEMENS	X	X
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○

● : Standard ○ : Option ☆ : Prior Consultation X : Non Application - : Impossible

Electric Device		KIT200	KIT250
Multi Tool Counter	6ea	○	○
	9ea	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer & Cable	15kVA	○	○
Auto Power Off		○	○
Measurement			
Q-Setter		X	X
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○
	SMC	○	○
Linear Scale	X/Z Axis	X	X
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		○	○
Oil Skimmer (Only for Chip Conveyor)		☆	☆
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Standard	○	○
	High Speed	○	○
Auto Shutter (Only for Automatic System)		☆	☆
Sub Operation Panel		☆	☆
Bar Feeder Interface		○	○
Bar Feeder (FEDEK)		☆	☆
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16Contact	○	○
	32Contact	○	○
Parts Catcher	Main SP.	○	○
Parts Conveyor		☆	☆
Semi Automation System	Only for Bearing Parts	☆	☆
Semi Automation System	General Turning	☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
Standard Hyd. Unit	35bar/15 ℓ	●	●
Software			
Machine Guidance		☆	☆
HWTM (Tool Monitoring System)		X	☆
DNC Software		○	○
Dialogue Program		☆	☆
ETC			
Tool Box		●	●
Customized Color	Need Munsell No.	☆	☆
CAD & CAM		☆	☆

❖ The specifications as above will only serve as a reference.

● : Standard ○ : Option ☆ : Prior Consultation X : Non Application - : Impossible

Spindle & Chuck		KIT400	KIT450
Main Spindle Hollow Chuck 3 Jaw	6"	●	●
	8"	○	○
	10"	X	X
Main Spindle Solid Chuck 3 Jaw	6"	○	○
	8"	○	○
	10"	X	X
Standard Soft Jaw (1set)		●	●
Chuck Clamp Foot Switch		●	●
2 Steps Hyd. Pressure Device		○	○
Spindle Inside Stopper		☆	☆
5" Index		○	○
Cs-Axis (0,001")		○	○
Block Tool			
Tool Holder		●	●
Boring Sleeve		●	●
Drill Socket		●	●
U-Drill Holder		○	○
U-Drill Holder Sleeve		○	○
ø32 Boring Holder		○	●
Rotating Tool Head (X,Z Axis)		☆	☆
Tail Stock & Steady Rest			
Manual Tail Stock		X	X
Coolant & Air Blow			
Standard Coolant (Nozzle)		●	●
Chuck Coolant (Upper Chuck)		○	○
Gun Coolant		○	○
Spindle Thru Coolant (Only for Special Chuck)		☆	☆
Chuck Air Blow (Upper Chuck)		○	○
Air Gun		○	○
Spindle Thru Air Blow (Only for Special Chuck)		☆	☆
High Pressure Coolant	6Bar	○	○
	20Bar	☆	☆
Power Coolant System (For Automation)		☆	☆
Coolant Chiller		☆	☆
Chip Disposal			
Coolant Tank	120 ℓ	●	●
	185 ℓ	X	X
Chip Conveyor(Hinge/Scraper)	Front (Right)	○	○
	Rear (Rear)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip Box	Standard (180 ℓ)	○	○
	Swing (200 ℓ)	○	○
	Large Size (330 ℓ)	○	○
	Customized	☆	☆
Safety Device			
Door Inter-Lock		●	●
Total Splash Guard		●	●
Chuck Pressure Failure Detector		○	○
Torque Limiter		☆	☆
Back Spin Torque Limiter (BST)		☆	☆
Electric Device			
Call Light	1 Color : ■	●	●
	3 Color : ■ ■ ■	○	○
Call Light & Buzzer	3 Color : ■ ■ ■ B	○	○
Work Light		●	●
Electric Cabinet Light		○	○
Chuck Open / Close Confirmation Device		○	○
Controller	FANUC 0i-TD	●	●
	SIEMENS 802D	○	○
Remote MPG		X	X
Sp. Load Meter (LED Type)	FANUC 0i-TD	○	○
	SIEMENS 802D	X	X
Sp. RPM Meter (LED Type)	FANUC 0i-TD	○	○
	SIEMENS 802D	X	X

Electric Device		KIT400	KIT450
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6ea	○	○
	9ea	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer & Cable	20KVA	○	○
Flash Memory Card		○	○
Auto Power Off		☆	☆
Double Foot Switch		☆	☆
Back-Up Module For Blackout		☆	☆
Measurement			
Q-Setter		X	X
Work Close Confirmation Device (Only for Special Chuck)	TACO	○	○
	SMC	○	○
Linear Scale	X/Z Axis	X	X
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Environment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		○	○
Oil Skimmer (Only for Chip Conveyor)		☆	☆
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Standard	○	○
	High Speed	○	○
Auto Shutter (Only for Automatic System)		☆	☆
Sub Operation Pannel		☆	☆
Bar Feeder Interface		○	○
Bar Feeder (FEDEK)		☆	☆
Extra M-Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (IN & OUT)	16Contact	○	○
	32Contact	○	○
Parts Catcher		○	○
Parts Conveyor		☆	☆
Semi Automation System		☆	☆
Hyd. Device			
Standard Hyd. Cylinder	Hollow	●	●
	35bar/10 ℓ	●	-
Standard Hyd. Unit	35bar/15 ℓ	-	●
ETC			
Tool Box		●	●
Customized Color	Need Munsel No.	☆	☆
CAD & CAM Software		☆	☆
Software			
Machine Guidance		☆	☆
HWTM (Tool Monitoring System)		☆	☆
DNC Software		○	○
Dialogue Program		☆	☆

❖ The specifications as above will only serve as a reference.

Controller

HYUNDAI WIA FANUC iSeries

Control function / Screen display

Control axis number	Max, 4 axes
	X, Z axis
	X, Z, C axis (M type)
	X, Z, B, C axis (MS type)
Simultaneous control axis number	2 axis/straight, arc interpolation (Max, 4 axes)
Spindle axis number *	2 axis
Min. input unit	X, Z, B axis : 0,001mm (0,0001")
	C axis : 0,001 deg.
Min. increment	X, Z, B axis : 0,001mm (0,0001")
	C axis : 0,001 deg.
High speed HRV control	
PMC control	
Inch/metric conversion	G20 / G21
Interlock	Each axis / All axis
Machine lock	Full axis
Emergency stop	
Stroke check 1	Over-travel
Stroke check 2	
Stroke check 3	
Follow up	
Sub off	
Backlash compensation	+/- 0-9999 Pulse
Position switch	
Fault load detection	Back spin torque limiter (BST)
High resolution transfer control	
(HRM) LCD / MDI	8,4" Color LCD
Handling	
Auto handling (memory)	
MDI handling	
Search function	Sequence, Program
Program re-start	
Preventive function for mis-handling	
Buffer registration	Dry run, Program check
Program check function	
Single block	
Feed function	
Manual jog feed	Rapid transfer, Jog, Handle
Feed command	x1, x10, x100
Feed override	Direct command for F code feed
Jog override	0-200% (10% units)
Rapid transfer override	0-2,000 mm/min [79 ipm]
Override release	F1, F5, F25 / F50, F100%
Override release	
Transfer/minute, transfer/rpm	

Program input and interpolation function

Nano interpolation	Positioning / Straight / Arc (G00 / G01 / G02 / G03)
Dwell function	G04, 0-9999,9999 sec
Threading retract	
Variable lead threading	
Multiple threading	
Continuous threading	
Threading, synchronous cutting	
Return of first zero point	G28, Manual
Return check of zero point	G27
Return of second, third, fourth zero point	G30
Program stop/over	M00, M01 / M02, M30
Tape code	EIA / ISO
Optional block skip	1 EA
Max. program enter unit	+/- 9999,9999"
Program number	O4 digit number
Absolute, incremental programming	
Decimal number entering	
Plain selection	G17, G18, G19
Work coordinate selection	G52 to G59
Work coordinate preset	G50,3
Manual absolute	"ON" Fixed
Drawing dimension direct input programming	Included chamfering / Corner R
G code system	A
Programmable data input	G10
Sub program call	10 Steps
Custom macro B	
Custom macro variable addition	#100 to #199, #500 to #999
Multiple repetitive cycles	
Multiple repetitive cycles II	
Lathe fixed cycle	

Sub / Main spindle function

M-Code function	
M-Code function lock	M4 digit number
Lock sp. speed command	
Main sp. constant control	S + 4 digit number, binary number output G96, G97
Spindle speed override	50% ~ 150% (10% unit)
Spindle speed override	
Rigid tapping	

Tool function / Tool compensation

Tool function	T2 + 2
Tool offset quantity	64 pairs

Tool function / Tool compensation

Tool offset	
Tool nose radius compensation	G40, G41, G42
Configuration/wear compensation	
Tool life management	
Direct input of measuring tool compensation B	
Data input, output and editing function	
Input/output interface	RS232C
Memory card input and output	
Embedded Ethernet	100Mbps
Program storing capacity	512 Kbyte
Program registration quantity	400 EA
Memory lock	
Background edit	
Additional expandable edit	NC program copy, move, change

Screen, diagnosis and setting function

Self diagnosis function	
Historic screen	Alarm and handling screen
Help function	
Outside message	
Operation time/counter display	
Actual sp. speed, T code display	
Actual machining feed rate display	
Handling monitor screen	Rod meter light
Graphic screen	
Spindle/servo setting screen	
Languages	Selection of random 5 EA
LCD screen save	Screen saver
Auto data backup	

Function according with machine specification

Cs contouring function	MILL type
Stored pitch error compensation	MILL type
Pole coordinate command	MILL type
Cylinder interpolation	MILL type
Drill fixed cycle	MILL type
Sp. positioning expandable	MILL type, Sub spindle type
Main sp. synchronization control	Sub spindle type
Torque control	Sub spindle type

Option

High speed Ethernet	100 Mbps (Option board is required)
Optional block skip	9 EA
G code system	B / C
Polygon turning	
Dynamic graphic display	
8 level data protection function	
Manual guide i	Interactive program (10,4" Color LCD)
Tool load monitoring function	HWTM (embedded Fanuc type)

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SIEMENS 802D SL

Control		Programming Function	
Controlled axes	Max 4 axes	Inch / Metric Conversion	
Simultaneous Controlled axes/Least	Max 4 axes	Conversational Cycle Program	22EA
Command/input	0,001mm / 0,0001inch	Block Search with/without Calculation	
Feed Function		Variable Program (Macro)	
Feedrate Override	0 – 120%	Read / Write System Variable	
Rapid Traverse Override	F1, 5, 25/50, 100%	BackGround Editing	
Tool Function		Miscellaneous Functions	M – Code
Tool Nose R Comp./Tool Radius Comp.		Lable Skip	
Zero Offset (G54/G55/G56/G57/G58/G59)	6EA	Program Stop/End	M00, M01, M02, M30
Programmable Zero Offset		Lookahead , Jerk Limitation	AICC
3D Tool Radius Compensation		Feed & forward control	
Display		Helical interpolation	
Language	Chinese Simplified, English, French, German, Italian, Spanish, Chinese Traditional, Czech, Danish, Dutch, Finnish, Hungarian, Japanese, Korean, Polish, Russian, Swedish, Portuguese, Turkish	Cylinder Surface Transformer (TRACYL)	Cylindrical Interpolation
		Peripheral Surface Transformer (TRANSMIT)	Polar Coordinate Interpolation
		Graphical Cycle Support	
		ISO Dialect Interpreter(G291)	Fanuc Program Execution
CRT / MDI	TFT 10,4" Color	Protection Function	
Screen saver		Emergency Stop	
Spindle Function		Over Travel	Soft Limit
Spindle Override	50% – 120%	Contour Monitoring	
Spindle Orientation		Program Protection	
Spindle Speed Limitation		Automation Support Function	
Rigid Tapping		Actual Speed Display(Monitor)	
Manual Operation		Tool Life Management	Time, Parts
Manual Handle/Jog Feed		Work Count Function	Internal
Reposition		Language Function	
Reference Approach	Ref 1,2 Approach	Two Language switchable	
Spindle Control	Start,Stop,Rev ,Jog,Ort.	Data Transfer	
Auto Operation		RS 232C I/F	57600 BPS
Single Block		CF CARD SOCKET	Available storage size 1GB
Feed Hold		Ethernet Funtion	
Optional Block Skip		Option	
Machine Lock (PRT)		Spline Interpolation (incl NURBS & Compressor function)	HPCC
Dry Run			
Simulation			
Diagnosis Function			
Alarm Display			
Spindle Load/rpm Meter			
Ladder Display			
Programming Function			
Part Program Storage Length	1MB(2500M)		
Program Name	23 digits		
Subroutine Call	7Level		
Absolute/incremental Command	G90 – G91		
Scaling, ROT			

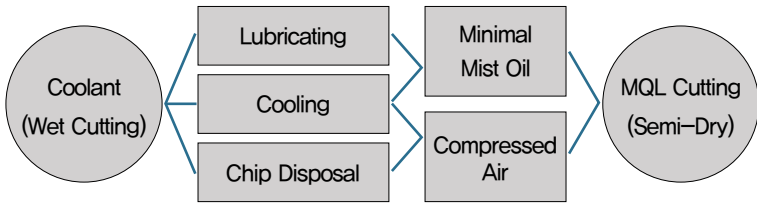
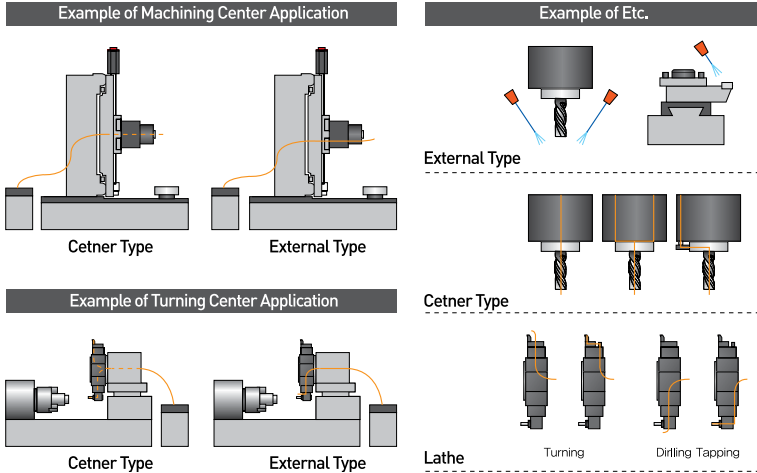
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ENERGY SAVING & ECO FRIENDLY

All machine tools of HYUNDAI WIA are designed to consider environmental safety and energy saving
Minimum practice enabling coexistence of humankind and machines...
HYUNDAI WIA will lead for this



MQL : Minimal Quantity Lubrication



MQL is an eco-friendly product responding to Kyoto Protocol, and capable of processing with small coolant [2~20CC/H]. The use of MQL has not introduce condensation and generate dust powder even in processing with extra high speed. It also penetrates up to the tip of tools, which reduces heat generation and makes excellent lubrication. [Tools life and cutting speed are increased more than 1.5 to 3 times]

ECO System

Oil Skimmer

It is a device recovering lubricant mixed in coolant, which extends coolant life and provides comfortable working environment and operating cost saving.

Mist Collector

Mist of fine particles (1~10 μ m) generated from processing will contaminate working area and ambient air, and if inhaled to human body, cause occupational disease, and also reduction of machines life and productivity. The collector catches and removes this mist to make comfortable and fresh working environment.



Economy Lubrication System



The use of oil saving coolant supplier provides lubricant only when the forwarding axis is moving, which saves 30% of lubricant consumption compared to existing system.

Energy Saving

Auto Power Off



When processing products needed long hours such as PPL or MOLD, power supply is automatically shut off by programmed setting, which reduces power consumption.

[Automatic Power Off Display]

When the machine is not operated longer than set time, a SCREEN-SAVER is activated and saves power consumption.

Power Consumption Monitor

AXIS	CONSUMP	REGEN	NET	PRESENT
03	54,330	-5,111	13,219	12,448
T1	54,004	-8,203	14,601	25,043
Z3	5,618	-8,556	5,062	29,982
B1	21,458	-1,639	19,019	20,059
C4	30,204	-6,314	23,090	-15,626
B3	25,000	-8,668	25,220	18,600
ALL	187,136	-17,408	149,056	119,970

Accumulated power consumption of servo motor is displayed on OP screen, thru which you can determine real time power consumption.