

i-CUT Series

HYUNDAI WIA Vertical Tapping Center

Technical Leader

Hyundai Wia, a Korean manufacturer of traditional machine tools that are built with the power of precision and state-of-the-art technology, developed the Vertical Machining Center i-CUT Series : a machine that maximizes productivity, while maintaining rigidity and accuracy.



i-CUT380T

[SIEMENS]

Table Size	mm(in)	600×380 (23.6"×15")
Maximum Load Capacity	kg(lb)	200 (440.9)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000 [12,000]
Output (Max./Cont.)	kW(HP)	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8")
Rapid Feed Rate	m/min	56/56/56

i-CUT380Ti

[SIEMENS]

Table Size	mm(in)	600×380 (70.9"×27.6")
Maximum Load Capacity	kg(lb)	150 (330.7)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000
Output (Max./Cont.)	kW(HP)	6.6/4.1 (8.9/5.5)
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8")
Rapid Feed Rate	m/min	60/60/60

i-CUT420T

[SIEMENS]

Table Size	mm(in)	800×420 (31.5"×16.5")
Maximum Load Capacity	kg(lb)	200 (440.9)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000 [12,000]
Output (Max./Cont.)	kW(HP)	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	700/420/350 (27.6"/16.5"/13.8")
Rapid Feed Rate	m/min	50/50/56

i-CUT380Tec

Table Size	mm(in)	600×380 (70.9"×27.6")
Maximum Load Capacity	kg(lb)	200 (440.9)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000
Output (Max./Cont.)	kW(HP)	7.5/5.5 (10/7.5)
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8")
Rapid Feed Rate	m/min	50/50/50

i-CUT380TD

[SIEMENS]

Table Size	mm(in)	2-650×400 (2-23.6"×15.7")
Maximum Load Capacity	kg(lb)	2-250 (2-551.1)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000 [12,000]
Output (Max./Cont.)	kW(HP)	7.5/5.5 (10/7.5) [6.6/4.1 (8.9/5.5)]
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	520/360/350 (20.5"/14.2"/13.8")
Rapid Feed Rate	m/min	50/50/56

i-CUT380TDi

[SIEMENS]

Table Size	mm(in)	2-650×400 (2-23.6"×15.7")
Maximum Load Capacity	kg(lb)	2-250 (2-551.1)
Spindle Taper	—	NT #30
Spindle RPM	r/min	12,000
Output (Max./Cont.)	kW(HP)	6.6/4.1 (8.9/5.5)
Number of Tools	EA	14 [TwinArm:20, 24]
Travel(X/Y/Z)	mm(in)	520/360/350 (20.5"/14.2"/13.8")
Rapid Feed Rate	m/min	48/48/60

New Leader of
Vertical Tapping Center

i-CUT Series

- Spindle Structure of 12,000rpm is Designed for Tapping
- Excellent acceleration time to reach (Max. Spindle speed 12,000rpm)
- Various model to meet customer's need
- High speed rigid tapping (6,000rpm)

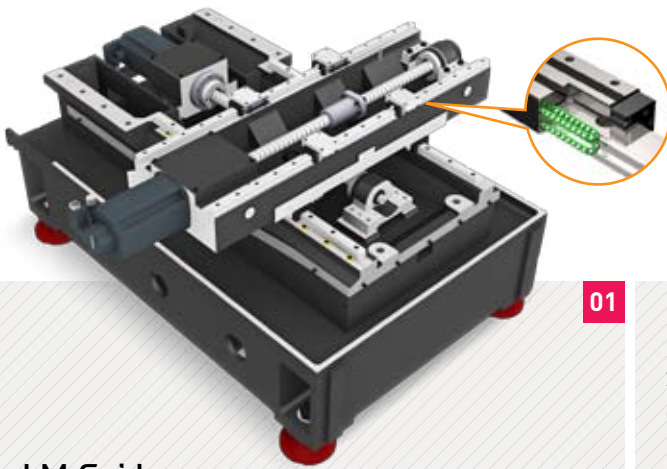


01

i-CUT Series

i-CUT380T/Ti/Tec/420T

The Best Productivity Popular 10 inch Vertical Tapping Center

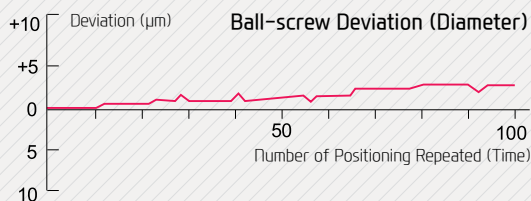
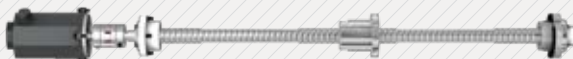


LM Guideway

Rapid High Speed axis movement is achieved by the use of linear motion guide ways. This reduces non-cutting time and decreases machining time for greater productivity.

Ball Screw

All axes are driven by high precision double-nut ballscrews. The double pretension design provides outstanding positioning and repeatability with virtually no thermal growth. All ballscrews are connected directly to the servo drive motors without gears or belts, to eliminate backlash.

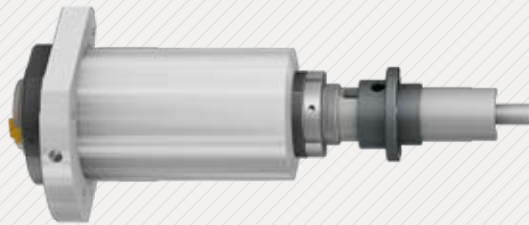


Rapid Travel Improvement

Rapid travel has increased to **56** m/min significantly reducing production times.

Spindle

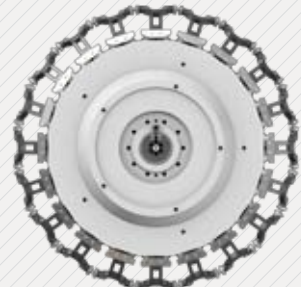
Spindle diameter more greatly increases rigidity to the thickness of the spindle. The adoption of high-precision angular contact ball bearings to maintain rigidity and accuracy.



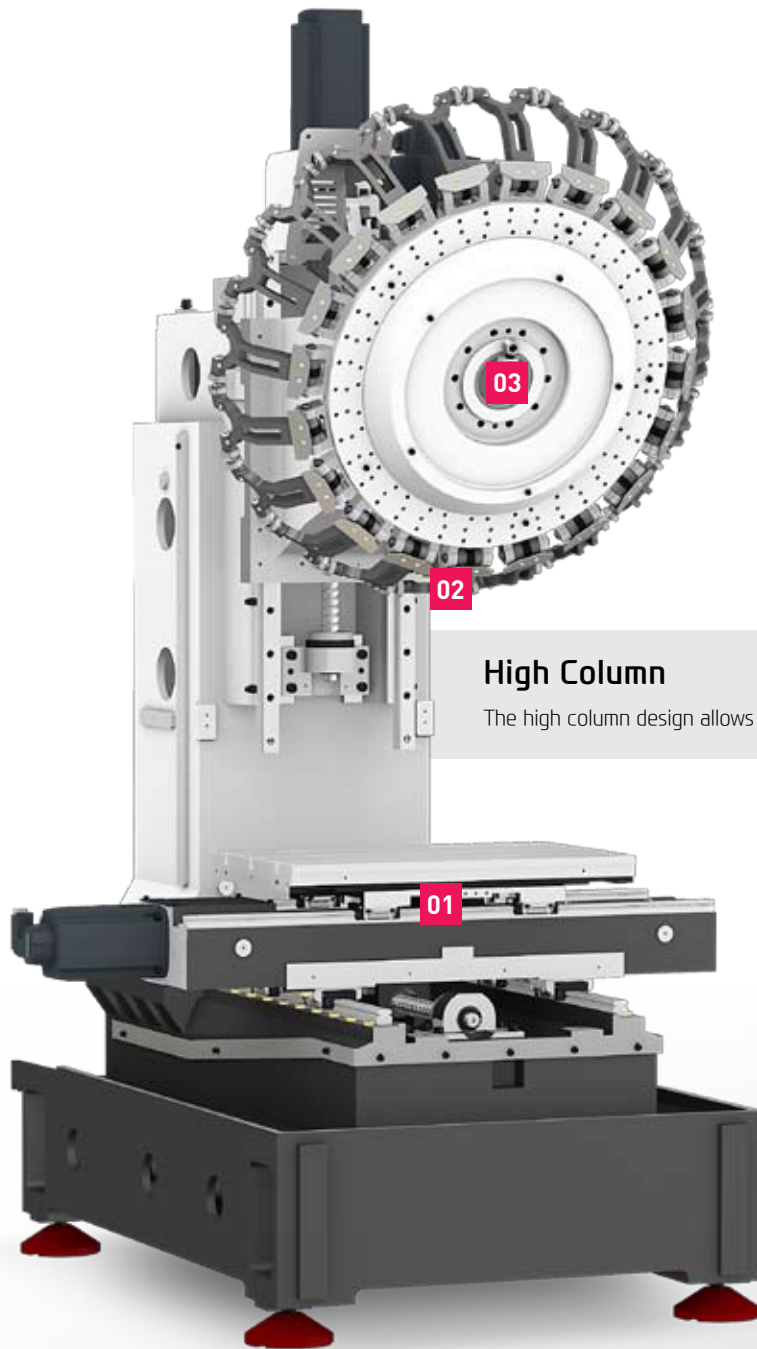
ATC & Magazine

The 14 tool rotary ATC is standard on the i-CUT380T series. The double-arm ATC is offered as an option. The tool magazine has the option for twenty (20) tools or twenty four (24) tools.

20 Tool Armless Type
OPTION



Basic Structure



High Column

The high column design allows for a larger work envelope.

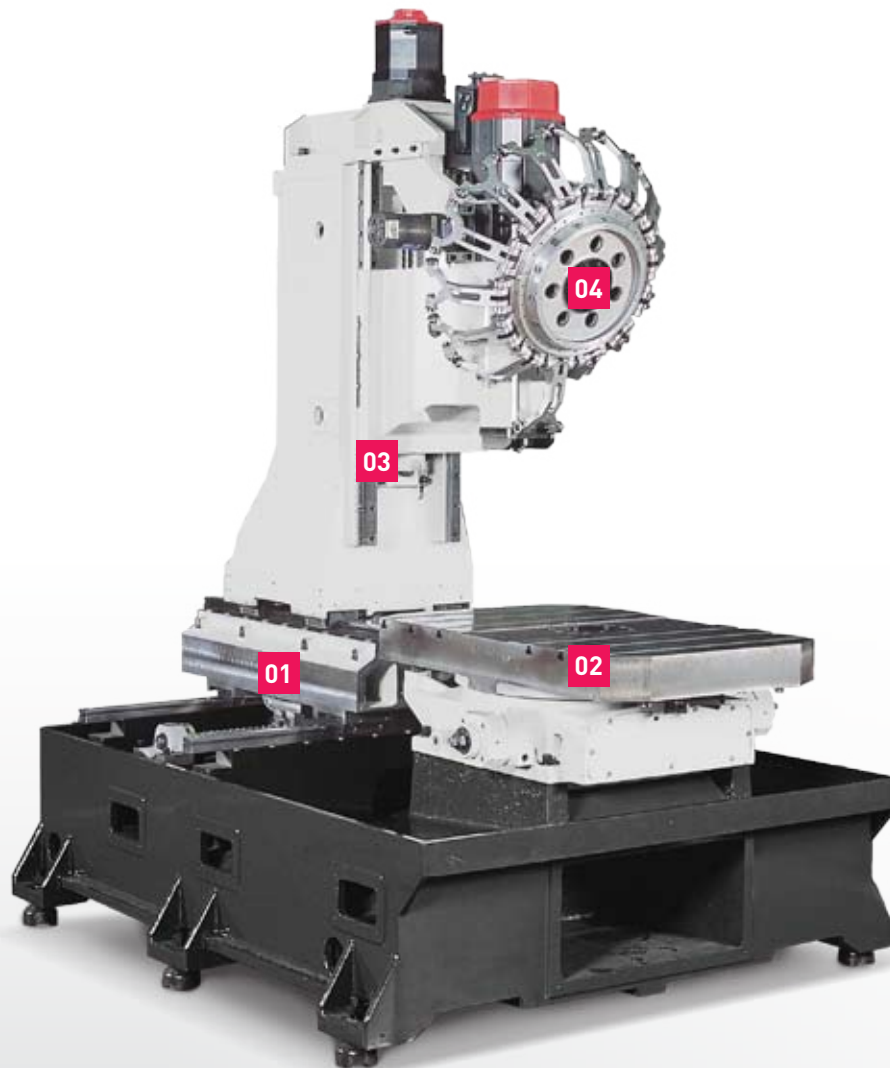
Reduction of non-cutting time by fast rapid speed

- ⊙ **Rapid Feed Rate** (X/Y/Z axis) i-CUT380T/Ti : **56/56/56** m/min i-CUT380TD : **50/50/56** m/min
i-CUT420T : **50/50/56** m/min i-CUT380Tec : **50/50/50** m/min i-CUT380TDi : **48/48/50** m/min
- ⊙ **Travel** (X/Y/Z axis) i-CUT380T/Ti/Tec : **520/380/350** mm(**20.4"/14.9"/13.7"**)
i-CUT420T : **700/420/350** mm(**27.5"/16.5"/13.7"**) i-CUT380TD/TDi : **520/360/350** mm(**20.4"/14.1"/13.7"**)

02 i-CUT380TD/TDi

i-CUT Series

The Best Productivity Popular 10 inch Vertical Tapping Center



Reduction of non-cutting time by fast rapid speed

- **Rapid Feed Rate** (X/Y/Z axis) i-CUT380TD : **56/56/56** m/min i-CUT380TDi : **48/48/50** m/min
- **Travel** (X/Y/Z axis) i-CUT380TD/TDi : **520/360/350** mm (**20.4"/14.1"/13.7"**)

Dual Table Type Tapping Center

i-CUT380TD/TDi tool will satisfy customer's request on productivity maximization, in which Dual Table is applied to quick transfer speed and high speed spindle structure.



01

Column Moving Type

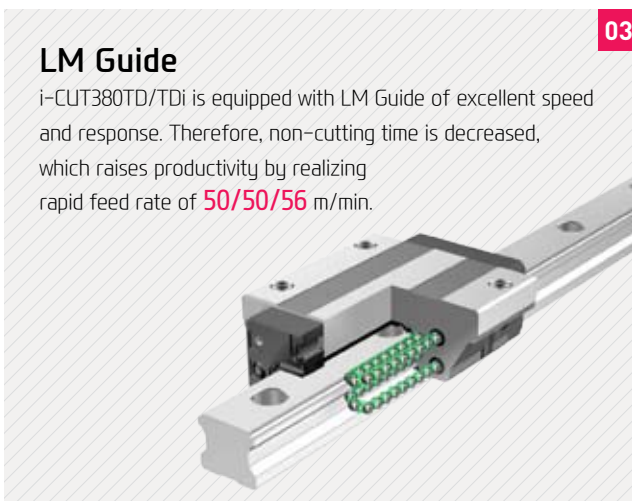
By using Dual Table, it is designed as column moving structure to be able to maximize productivity. Also, by extending column width, processing accuracy is increased and by designed as thermal symmetrical column structures, thermal deformation is minimized by heated.



02

Dual Table

The automatic index table is incorporated into the standard design of the machine on the i-CUT 380TD and 420TD. Both sides are completely separated by a heavy-duty guard. Because the table remains stationary during cutting, work can be safely set up on the table side not being machined on. The table itself rotates 180 degrees via a hydraulic rack & pinion gear and is locked in position using a locating pin.



03

LM Guide

i-CUT380TD/TDi is equipped with LM Guide of excellent speed and response. Therefore, non-cutting time is decreased, which raises productivity by realizing rapid feed rate of **50/50/56** m/min.

ATC & Magazine

The 14 tool rotary ATC is standard on the i-CUT380T series. The double-arm ATC is offered as an option. The tool magazine has the option for twenty (20) tools or twenty four (24) tools.

04

24 Tool Twin Arm Type OPTION



03
i-CUT Series

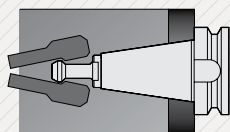
High-Precision Spindle

Long Lasting High Accuracy & Excellent Performance
Vertical Tapping Center

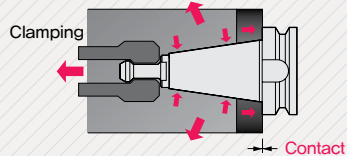


Application of 2 Faces Spindle OPTION

Before Clamping



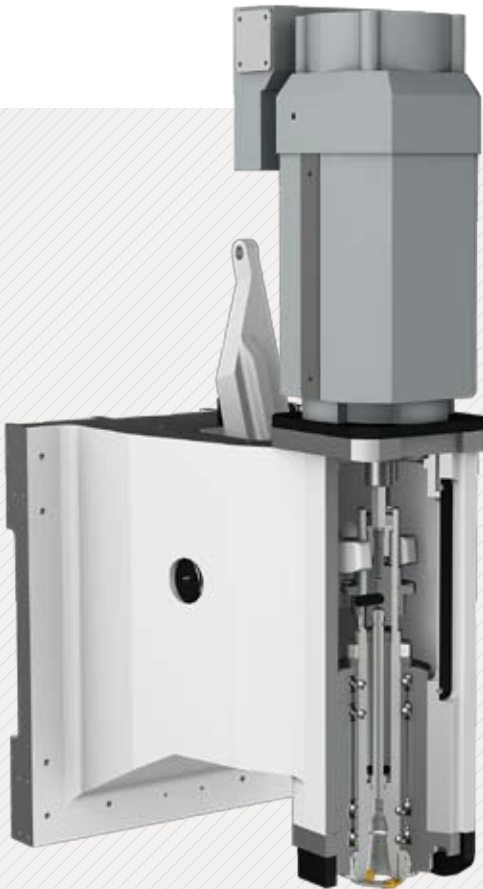
After Clamping



The Big Plus spindle system (BBT #30) provides dual contact between the spindle face and the flange face of the tool holder. This greatly increase tool rigidity, reduces run out and adds significant productivity to your machining applications.

The increase in standard diameter improves stiffness and ATC repeatability, and Z-axis displacement prevention further extends tool life.

Spindle



Main Spindle

For high speed spindle, it is designed as high-precision rapid angular ball bearing. Therefore, it exerts excellent performance by realizing rapid processing of Max. 12,000 rpm.

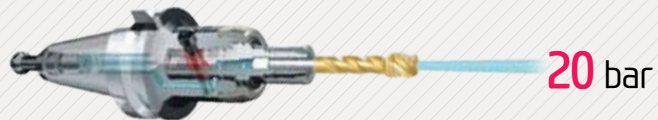
Reverse rotation double speed reverse (Double Speed Return) has been reduced processing time.

Rigid Tapping

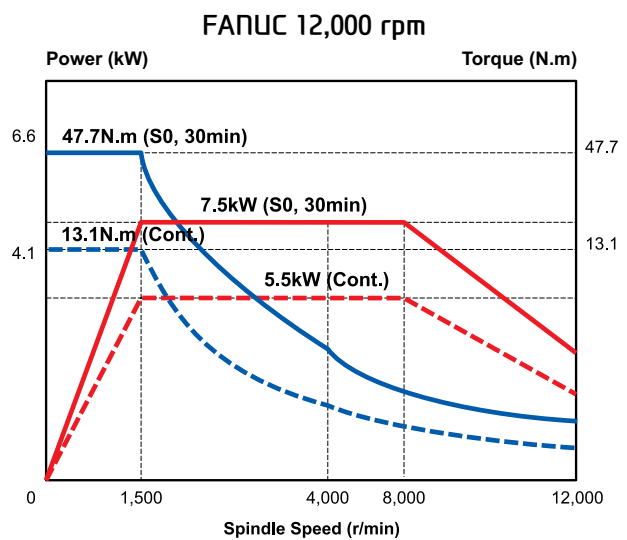
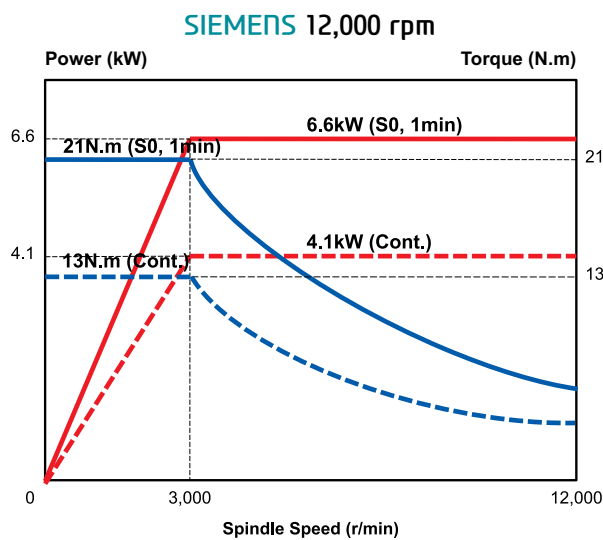
Rigid tapping is standard and eliminates the need for special tooling. Consistent and accurate tapping increases tap life and reduces the machining cycle time.

Spindle Thru Coolant

Through the spindle coolant is available. This is particularly useful for deep hole drilling and helps increase tool life and decrease cycle time.



Spindle Output/Torque Diagram



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i-CUT Series

Peripheral Device

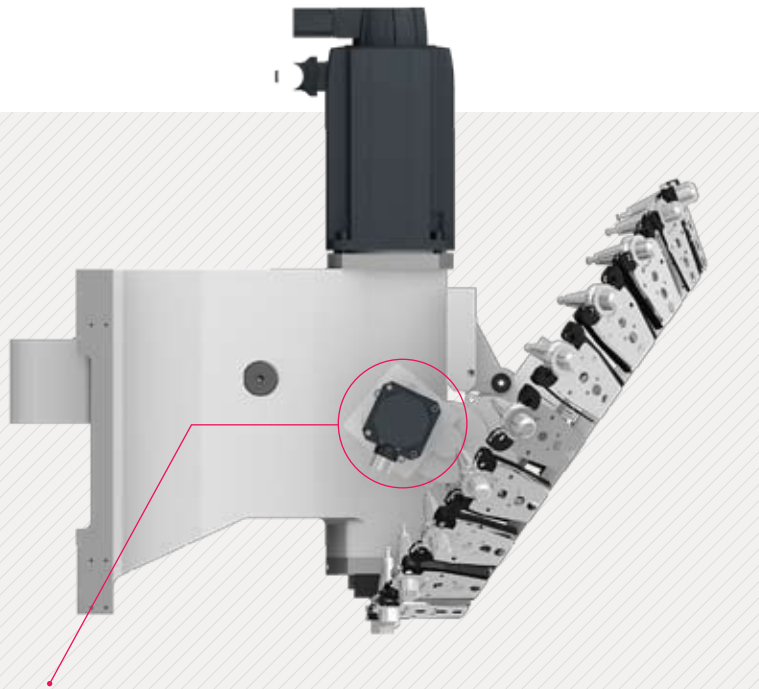
High Productivity Achieved with High Rigidity,
Accuracy Machining



Magazine & ATC

The 14 tool rotary ATC is standard on the i-CUT T series. The double-arm ATC is offered as an option. The tool magazine has the option for 20 Tool Armless Type or 24 Tool Twin Arm Typ. Random access allows for pre-staging of tools for faster tool changes and increased productivity

Peripheral Device



Servo ATC OPTION

Position control through Twin Arm ATC on Servo Motors has been improved drastically. In addition, tool exchanging has become easier, reducing specific cutting time tremendously.

Twin Arm Type OPTION



Armless Type

- ⦿ No. of Tool : **14** [20] EA
- ⦿ Max. Tool Weight : **2.8** kg
- ⦿ Tool Selection Method : **Memory**
- ⦿ Tool Change Time
T-T : **1.3** sec C-C : **2.3** sec



Twin Arm Type OPTION

- ⦿ No. of Tool : **20** [24] EA
- ⦿ Max. Tool Weight : **3** kg
- ⦿ Tool Selection Method : **Random**
- ⦿ Tool Change Time
T-T : **1.5** sec C-C : **2.2** sec

n5

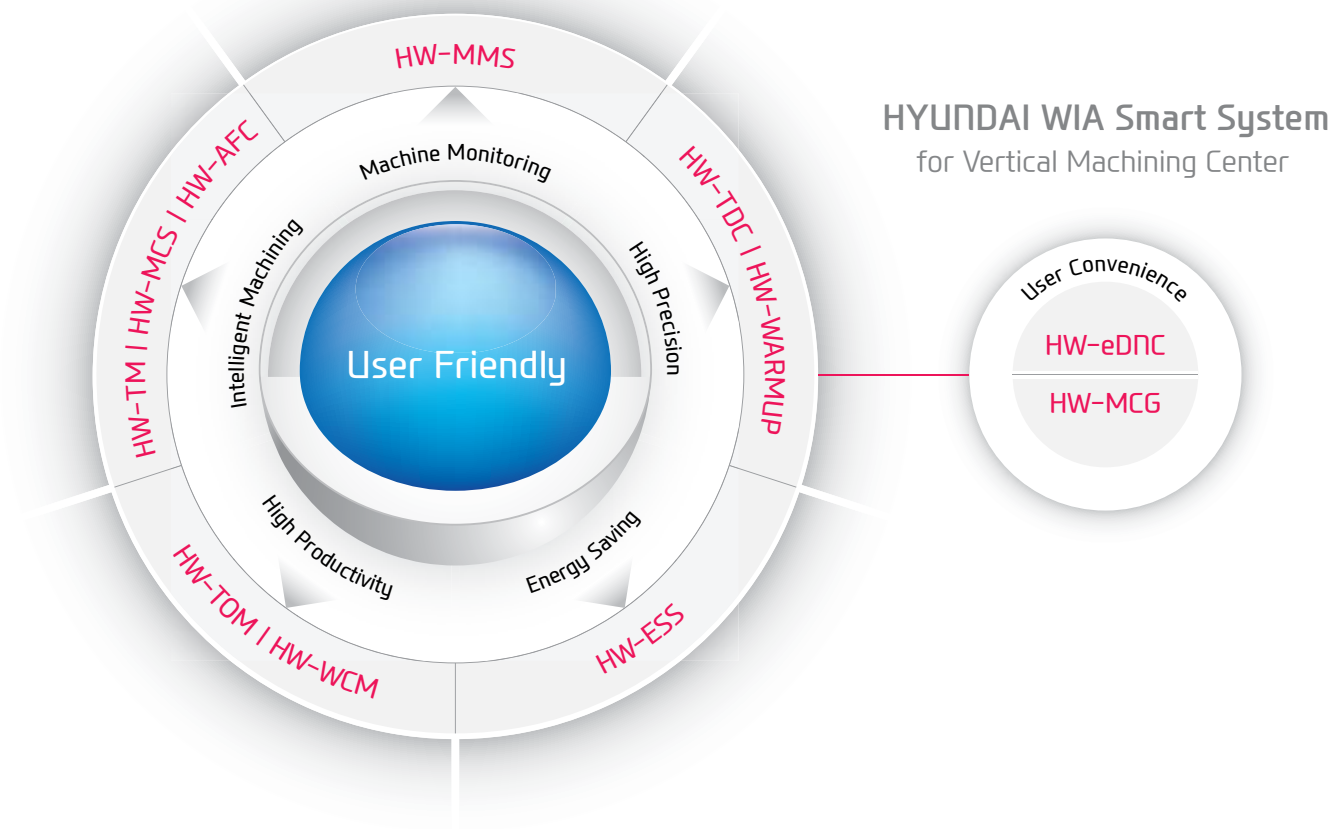
i-CUT Series

Smart System

Software for smart operating
and machining



Faster processing programming and enhanced processing accuracy are possible through **HYUNDAI WIA Smart System**. It also maximizes productivity through equipment monitoring and environment-friendly software.



HW-MMS

HYUNDAI WIA
Machine Monitoring System

This software is for remote control monitoring of equipment status (mobile, PC.) It checks and manages the state of multiple pieces of equipment and the progress of processing on a real time basis.

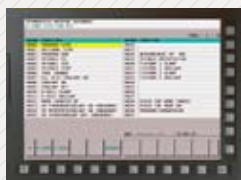


HW-eDNC

HYUNDAI WIA ethernet
Direct Numerical Control

This software transmits and receives the CNC of processing equipment, the processing program and the NC data on a PC through the internet or serial communications, while managing the processing program of the CNC memory.

HYUNDAI WIA Smart System



HW-MCG

HYUNDAI WIA
Machine Guidance

(FANUC)

PC-installed software featuring operation, maintenance, management monitoring and many more user-friendly systems.



HW-TDC

HYUNDAI WIA Thermal
Displacement Compensation

Software that measures the changes in the external environment as well as heat emission during processing to help in reducing thermal displacement.



HW-WARMUP

HYUNDAI WIA
WARMing Up

Warm-up software that measures main spindle halt and system warm-up time.



HW-ESS

HYUNDAI WIA
Energy Saving System

(FANUC)

This is an environment-friendly power reduction software reducing the standby power unnecessarily wasted in the equipment waiting for a processing operation.



HW-TOM

HYUNDAI WIA
Tool Offset Measurement

(FANUC)

User-friendly GUI software indicating tool length, diameter, and damage



HW-WCM

HYUNDAI WIA Work
Coordinate Measurement

(FANUC)

User-friendly GUI software that features material coordinate system measuring



HW-TM

HYUNDAI WIA
Tool Monitoring

(FANUC)

This is an equipment-monitoring software which checks the overload, attrition and possible damage of equipment by analyzing the spindles and the output load of the feed shaft generated during a processing operation.



HW-MCS

HYUNDAI WIA
Machining Condition Selection

(FANUC)

The software that sets cutting and feeding parameters according to different processing (speed, degree, quality)

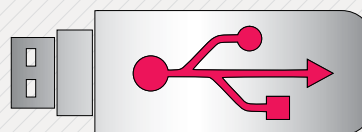


HW-AFC

HYUNDAI WIA
Adaptive Feed Control

(FANUC)

Software that controls the feed automatically to maintain certain processing overload to extend tool life as well as productivity.



USB Port (Only HW FANUC i Series)

Convenience is increased when inputting and outputting program. Because it is now capable of using USB port in addition to current way like CF memory card or LAN

n6
i-CUT Series

SIEMENS Controller

Software for smart operating and machining



SIEMENS

DIFFERENTIATED CAPABILITIES, INTEGRATED ENGINEERING PERFECTLY INTERLINKED

SINUMERIK 828D Milling is an advanced CNC that was designed for vertical/ horizontal machining centers and has the capability to handle six (6) axis.

It is ideal for the shop floor thanks to its unique graphical user interface.

Users can quickly commission, operate, program, service and maintain machines tasks without the need for extensive training.

Controller



SIEMENS Technology

SHOP Mill

- Dialogue-type programming, simple and convenient
- Effective specifications for small quantity batch production
- Step-by-step operation possible without knowledge of the DIN/ISO code



OPTION

3D SIMULATION

- 3D confirmation (an option) of the completed processing configuration of the NC program is possible.
- Offers standards for 2Dsimulation.
- Possible to confirm the simulation of the NC program during processing.



OPTION

EASY Extend

- Easy to install/uninstall an option (Ex : barfeeder and chip conveyor, etc.)
- Possible to install in one motion without revision of individual perimeters.
- A spate list is unnecessary as option items are indicated with letters.



SIEMENS Convenient Function

COMMUNICATION FUNCTION

RJ 45 Ethernet

USB 2.0

Compact Flash Card



You can use a USB memory card, a CF memory card and LAN commonly,

ISO CODE PROGRAMMING

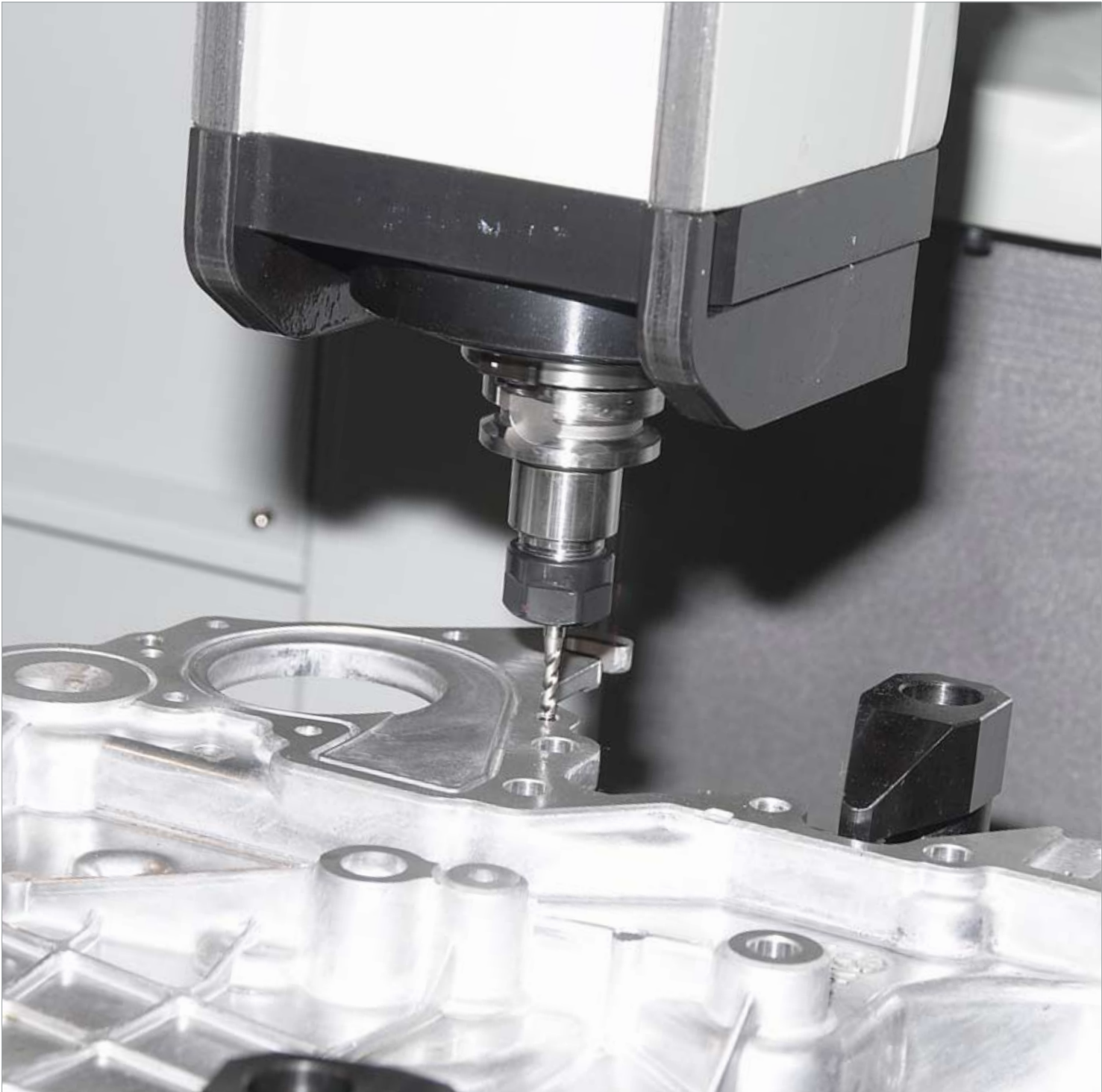


ISO Dialect (G291) 기능 지령시 JIS 기반의 G-code 프로그램 사용가능. (표준)

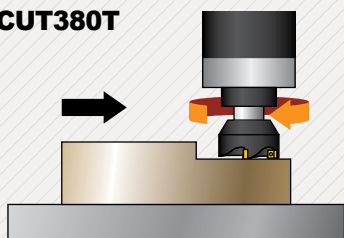
07
i-CUT Series

Machining Capability

The Best Performance, Powerful Cutting, High Speed
Horizontal machining center



i-CUT380T

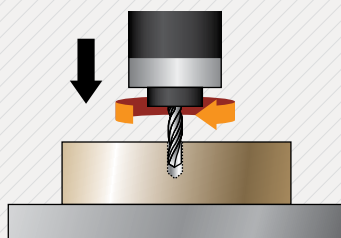


Face Cutter (Material(JIS):AL)

Tool diameter	Ø63 mm x 5F
Cutting depth	3.2 mm
Cutting width	55 mm
Cutting speed	286 mm/min
Spindle rpm	1,137 r/min
Feed rate	0.9 mm/rev
Chip quantity	210 cc/min

Face Cutter (Material(JIS):S45C(Carbon steel))

Tool diameter	Ø63 mm x 5F
Cutting depth	2.2 mm
Cutting width	40 mm
Cutting speed	225 mm/min
Spindle rpm	1,137 r/min
Feed rate	1 mm/rev
Chip quantity	100 cc/min

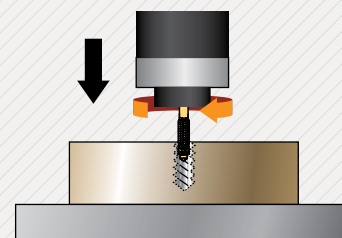


Drill (Material(JIS):AL)

Tool diameter	Ø30 mm
Cutting depth	60 mm
Cutting speed	75 mm/min
Spindle rpm	796 r/min
Feed rate	0.2 mm/rev
Chip quantity	113 cc/min

Drill (Material(JIS):S45C(Carbon steel))

Tool diameter	Ø24 mm
Cutting depth	48 mm
Cutting speed	27 mm/min
Spindle rpm	358 r/min
Feed rate	0.2 mm/rev
Chip quantity	32 cc/min



Tap. (Material(JIS):AL)

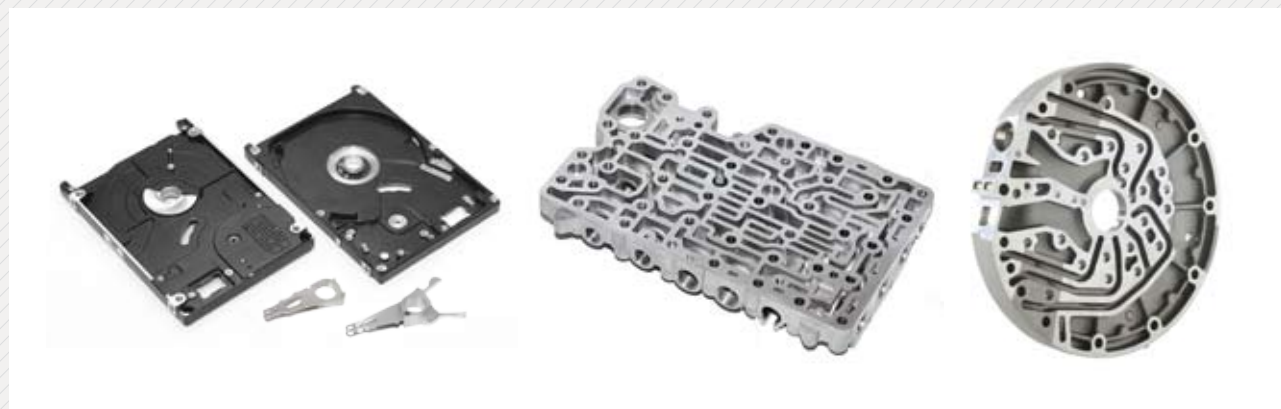
Tap spec./Pitch	M27 x P3.0
Cutting depth	50 mm
Cutting speed	24 mm/min
Spindle rpm	306 r/min
Feed rate	3 mm/rev

Tap. (Material(JIS):S45C(Carbon steel))

Tap spec./Pitch	M20 x P2.5
Cutting depth	40 mm
Cutting speed	8 mm/min
Spindle rpm	127 r/min
Feed rate	2.5 mm/rev

❖ The above result might be different by types of processing circumstance.

Sample Workpieces - IT & Automobile Part



SPECIFICATIONS

Standard & Optional

Spindle		380T	380Tec
12,000rpm(7.5/5.5kW)	FANUC	●	●
12,000rpm(6.6/4.1kW)	SIEMENS	●	-
Spindle Cooling System		-	-
ATC			
ATC Extension	14(Turret)	●	●
	20(Turret)	○	○
	14(Turret/Servo)	○	○
	20(Turret/Servo)	○	○
	20(Twin Arm)	○	○
Tool Shank Type	BT30	●	●
	BBT30	☆	☆
	BT40	-	-
U-Center	D'andrea	-	-
	45°	●	●
	60°	○	○
Stud Bolt Collet Change	90°	-	-
Table & Column			
APC	ROTARY TURN	-	-
Tap Type Pallet		-	-
T-Slote Pallet		●	●
NC Rotary Table		☆	☆
High Column	150mm (5.9")	○	○
	300mm (11.8")	○	○
Coolant System			
Std. Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	●
	20bar	○	○
Spindle Thru Coolant	30bar	-	-
	70bar, 15 ℓ	-	-
	70bar, 30 ℓ	-	-
		-	-
TOP COVER (Only for Spindle Thru Coolant)		○	○
Shower Coolant		○	○
Gun Coolant		○	○
Side Oil Hole Coolant		-	-
Air Gun		○	○
Cutting Air Blow		○	○
Tool Measuring Air Blow (Only for TLM)		○	○
Air Blow for Automation		☆	☆
Thru MQL Device (Without MQL)		☆	☆
Coolant Chiller		☆	☆
Power Coolant System (For Automation)		☆	☆
Chip Disposal			
Coolant Tank	160 ℓ	●	●
Cabin Screw Chip Conveyor		☆	☆
Chip Conveyor (Hinge/Scraper)	Rear (Left)	○	○
	Rear (Right)	○	○
	Rear (Rear)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip box	Standard(180 ℓ)	○	○
	Swing(200 ℓ)	○	○
	Swing Large Size(290 ℓ)	○	○
	Large Size(330 ℓ)	○	○
	Customized	☆	☆
Safety Device			
Total Splash Guard		●	●
S/W			
Machine guidance (HW-MCG) : FANUC		☆	☆
Tool Monitoring (HW-TM) : FANUC		○	○
DNC Software (HW-eDNC)		○	F (○), S (-)
Spindle Heat Distortion Compensation (HW-TDC)		○	F (○), S (-)
Spindle Warm up Function (HW-WARMUP)		○	F (○), S (-)
Energy Saving System (HW-ESS) : FANUC		○	○
Machine Monitoring System (HW-MMS)		☆	F (☆), S (-)
Tool Offset Measurement (HW-TOM) : FANUC		○	○
Work Coordinate Measurement (HW-WCM) : FANUC		○	○
Machining Condition Selection (HW-MCS) : FANUC		○	○
Adaptive Feed Control (HW-AFC) : FANUC		○	○

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

ETC		380T	380Tec
Tool Box		●	●
Customized Color	Need for Munsell NO.	☆	☆
CAD&CAM Software		☆	☆
Electric Device			
Call Light	1 Color : ■	○	○
Call Light	3 Color : ■ ■ ■	●	●
Call Light & Buzzer	3 Color : ■ ■ ■ B	○	○
Work Light		●	●
Electric Cabinet Light		○	○
Door Inter-Lock		●	●
Remote MPG		●	●
3 Axis MPG	FANUC	○	○
	SIEMENS	-	-
Spindle Load Meter	FANUC	○	○
(LED Type)	SIEMENS	●	-
Spindle RPM Meter	FANUC	○	○
(LED Type)	SIEMENS	●	-
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6 EA	○	○
	9 EA	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer (MITSUBISHI)		-	-
Transformer (SIEMENS)	380V: 20kVA	●	●
Transformer (FANUC)	220V: 20kVA	○	○
Flash Memory Card		○	○
Auto Power Off		○	○
Back up Module for Black out		○	○
Measuring Device			
Air Zero	TACO	○	○
	SMC	○	○
Work Measuring Device		○	○
TLM	Touch	○	○
(Marposs/Renishaw/Bloom)	Laser	○	○
Tool Broken Detective Device		☆	☆
Linear Scale	X/Y/Z Axis	☆	☆
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Enviornment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		○	○
Oil Skimmer (Only for Chip Conveyor)		○	○
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Std.	○	○
	High Speed	○	○
Auto Shutter (Only for Automatic System)		-	-
Sub O/P		☆	☆
NC Rotary Table/F	Single	○	○
	Channel	☆	☆
Control of Additional Axis	1Axis	○	○
	2Axis	☆	☆
External M Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (In & Out)	16Contact	○	○
	32Contact	○	○
Hyd. Device			
Std. Hyd. Unit	45bar/30 ℓ	-	-
Center Hyd. Supply Device	2x3(6Port)	-	-
	2x5(10Port)	-	-
Compact Center Hyd. Supply Device	2x3(6Port)	-	-
Hyd. Unit for Fixture	45bar	○	○
	70bar	○	○

SPECIFICATIONS

Standard & Optional

Spindle		380Ti	420T
12,000rpm(7.5/5.5kW)	FANUC	-	●
12,000rpm(6.6/4.1kW)	SIEMENS	●	●
Spindle Cooling System		-	-
ATC			
ATC Extension	14(Turret)	●	●
	20(Turret)	○	○
	14(Turret/Servo)	○	○
	20(Turret/Servo)	○	○
	20(Twin Arm)	○	○
Tool Shank Type	BT30	●	●
	BBT30	☆	☆
	BT40	-	-
	-	-	-
U-Center	D'andrea	-	-
Stud Bolt Collet Change	45°	●	●
	60°	○	○
	90°	-	-
Table & Column			
APC	ROTARY TURN	-	-
Tap Type Pallet		-	-
T-Slote Pallet		●	●
NC Rotary Table		☆	☆
High Column	150mm (5.9")	○	○
	300mm (11.8")	○	○
Coolant System			
Std. Coolant (Nozzle)		●	●
Bed Flushing Coolant		○	●
	20bar	○	○
	30bar	-	-
	70bar, 15 ℓ	-	-
	70bar, 30 ℓ	-	-
Spindle Thru Coolant		-	-
TOP COVER (Only for Spindle Thru Coolant)		○	○
Shower Coolant		○	○
Gun Coolant		○	○
Side Oil Hole Coolant		-	-
Air Gun		○	○
Cutting Air Blow		○	○
Tool Measuring Air Blow (Only for TLM)		○	○
Air Blow for Automation		☆	☆
Thru MQL Device (Without MQL)		☆	☆
Coolant Chiller		☆	☆
Power Coolant System (For Automation)		☆	☆
Chip Disposal			
Coolant Tank	160 ℓ	●	●
Cabin Screw Chip Conveyor		☆	-
Chip Conveyor (Hinge/Scraper)	Rear (Left)	○	○
	Rear (Right)	○	○
	Rear (Rear)	○	○
	-	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
Chip box	Standard(180 ℓ)	○	○
	Swing(200 ℓ)	○	○
	Swing Large Size(290 ℓ)	○	○
	Large Size(330 ℓ)	○	○
	Customized	☆	☆
Safety Device			
Total Splash Guard		●	●
S/W			
Machine guidance (HW-MCG) : FANUC		☆	☆
Tool Monitoring (HW-TM) : FANUC		○	○
DNC Software (HW-eDNC)		○	○
Spindle Heat Distortion Compensation (HW-TDC)		○	○
Spindle Warm up Function (HW-WARMUP)		○	○
Energy Saving System (HW-ESS) : FANUC		○	○
Machine Monitoring System (HW-MMS)		☆	☆
Tool Offset Measurement (HW-TOM) : FANUC		○	○
Work Coordinate Measurement (HW-WCM) : FANUC		○	○
Machining Condition Selection (HW-MCS) : FANUC		○	○
Adaptive Feed Control (HW-AFC) : FANUC		○	○

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

ETC		380Ti	420T
Tool Box		●	●
Customized Color	Need for Munsell NO.	☆	☆
CAD&CAM Software		☆	☆
Electric Device			
Call Light	1 Color : ●	○	○
Call Light	3 Color : ●	●	●
Call Light & Buzzer	3 Color : ● B	○	○
Work Light		●	●
Electric Cabinet Light		○	○
Door Inter-Lock		●	●
Remote MPG		●	●
3 Axis MPG	FANUC	○	○
	SIEMENS	-	-
Spindle Load Meter	FANUC	○	○
(LED Type)	SIEMENS	●	●
Spindle RPM Meter	FANUC	○	○
(LED Type)	SIEMENS	●	●
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6 EA	○	○
	9 EA	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer (MITSUBISHI)		○	-
Transformer (SIEMENS)	380V: 20KVA	●	●
Transformer (FANUC)	220V: 20KVA	-	○
Flash Memory Card		○	○
Auto Power Off		○	○
Back up Module for Black out		☆	○
Measuring Device			
Air Zero	TACO	○	○
	SMC	○	○
Work Measuring Device		○	○
TLM	Touch	○	○
(Marposs/Renishaw/Bloom)	Laser	○	○
Tool Broken Detective Device		☆	☆
Linear Scale	X/Y/Z Axis	☆	☆
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	Std.	○	○
	High Speed	○	○
Auto Shutter (Only for Automatic System)		-	-
Sub O/P		☆	☆
NC Rotary Table/F	Single	○	○
	Channel	☆	☆
Control of Additional Axis	1Axis	○	○
	2Axis	☆	☆
External M Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (In & Out)	16Contact	○	○
	32Contact	○	○
Hyd. Device			
Std. Hyd. Unit	45bar/30 ℓ	-	-
Center Hyd. Supply Device	2x3(6Port)	-	-
	2x5(10Port)	-	-
Compact Center Hyd. Supply Device	2x3(6Port)	-	-
Hyd. Unit for Fixture	45bar	○	○
	70bar	○	○

Standard & Optional

Spindle		380TD	380TDi
12,000rpm(7.5/5.5kW)	FANUC	●	—
12,000rpm(6.6/4.1kW)	SIEMENS	●	●
Spindle Cooling System		—	—
ATC			
ATC Extension	14(Turret)	●	●
	20(Turret)	○	○
	14(Turret/Servo)	○	○
	20(Turret/Servo)	○	○
	20(Twin Arm)	○	○
Tool Shank Type	BT30	●	●
	BBT30	☆	☆
	BT40	—	—
U-Center	D'andrea	—	—
	45°	●	●
	60°	○	○
Stud Bolt Collet Change	90°	—	—
Table & Column			
APC	ROTARY TURN	●	●
Tap Type Pallet		●	●
T-Slote Pallet		○	○
NC Rotary Table		☆	☆
High Column	150mm (5.9")	—	—
	300mm (11.8")	—	—
Coolant System			
Std. Coolant (Nozzle)		●	●
Bed Flushing Coolant		●	○
	20bar	○	○
Spindle Thru Coolant	30bar	—	—
	70bar, 15 ℓ	—	—
	70bar, 30 ℓ	—	—
TOP COVER (Only for Spindle Thru Coolant)		○	○
Shower Coolant		○	○
Gun Coolant		○	○
Side Oil Hole Coolant		—	—
Air Gun		○	○
Cutting Air Blow		○	○
Tool Measuring Air Blow (Only for TLM)		○	○
Air Blow for Automation		☆	☆
Thru MQL Device (Without MQL)		☆	☆
Coolant Chiller		☆	☆
Power Coolant System (For Automation)		☆	☆
Chip Disposal			
Coolant Tank	160 ℓ	●	●
Cabin Screw Chip Conveyor		—	—
Chip Conveyor (Hinge/Scraper)	Rear (Left)	○	○
	Rear (Right)	○	○
	Rear (Rear)	○	○
Special Chip Conveyor (Drum Filter)		☆	☆
	Standard(180 ℓ)	○	○
	Swing(200 ℓ)	○	○
	Swing Large	○	○
	Size(230 ℓ)	○	○
Chip box	Large Size(330 ℓ)	☆	☆
	Customized		
Safety Device			
Total Splash Guard		●	●
S/W			
Machine guidance (HW-MCG) : FANUC		☆	☆
Tool Monitoring (HW-TM) : FANUC		○	○
DNC Software (HW-eDNC)		○	○
Spindle Heat Distortion Compensation (HW-TDC)		○	○
Spindle Warm up Function (HW-WARMUP)		○	○
Energy Saving System (HW-ESS) : FANUC		○	○
Machine Monitoring System (HW-MMS)		☆	☆
Tool Offset Measurement (HW-TOM) : FANUC		○	○
Work Coordinate Measurement (HW-WCM) : FANUC		○	○
Machining Condition Selection (HW-MCS) : FANUC		○	○
Adaptive Feed Control (HW-AFC) : FANUC		○	○

● : Standard ○ : Option ☆ : Prior Consultation — Non Application

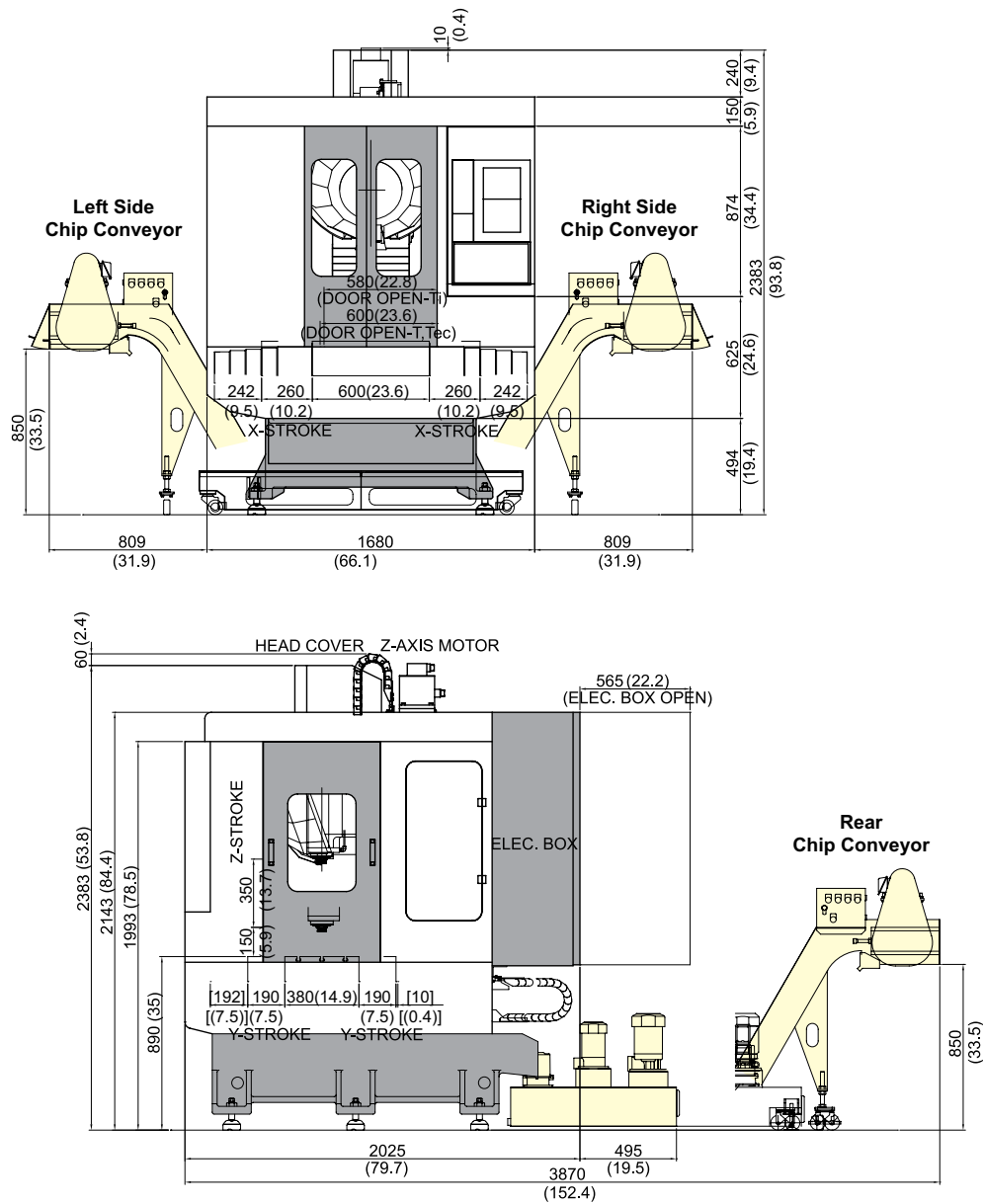
ETC		380TD	380TDi
Tool Box		●	●
Customized Color	Need for Munsell NO.	☆	☆
CAD&CAM Software		☆	☆
Electric Device			
Call Light	1 Color : ■	○	○
Call Light	3 Color : ■ ■ ■	●	●
Call Light & Buzzer	3 Color : ■ ■ ■ B	○	○
Work Light		●	●
Electric Cabinet Light		○	○
Door Inter-Lock		●	●
Remote MPG		●	●
3 Axis MPG	FANUC	○	○
	SIEMENS	—	—
Spindle Load Meter	FANUC	○	○
(LED Type)	SIEMENS	●	●
Spindle RPM Meter	FANUC	○	○
(LED Type)	SIEMENS	●	●
Work Counter	Digital	○	○
Total Counter	Digital	○	○
Tool Counter	Digital	○	○
Multi Tool Counter	6 EA	○	○
	9 EA	○	○
Electric Circuit Breaker		○	○
AVR (Auto Voltage Regulator)		☆	☆
Transformer (MITSUBISHI)		—	○
Transformer (SIEMENS)	380V: 20kVA	●	●
Transformer (FANUC)	220V: 20kVA	○	—
Flash Memory Card		○	○
Auto Power Off		○	○
Back up Module for Black out		○	☆
Measuring Device			
Air Zero	TACO	○	○
	SMC	○	○
Work Measuring Device		○	○
TLM (Marposs/Renishaw/Bloom)	Touch	○	○
	Laser	○	○
Tool Broken Detective Device		☆	☆
Linear Scale	X/Y/Z Axis	☆	☆
Coolant Level Sensor (Only for Chip Conveyor)		☆	☆
Enviornment			
Air Conditioner		○	○
Dehumidifier		○	○
Oil Mist Collector		○	○
Oil Skimmer (Only for Chip Conveyor)		○	○
MQL (Minimal Quantity Lubrication)		☆	☆
Fixture & Automation			
Auto Door	Std.	○	○
	High Speed	○	○
Auto Shutter (Only for Automatic System)		—	—
Sub O/P		☆	☆
NC Rotary Table/F	Single	○	○
	Channel	☆	☆
Control of Additional Axis	1Axis	○	○
	2Axis	☆	☆
External M Code 4ea		○	○
Automation Interface		☆	☆
I/O Extension (In & Out)	16Contact	○	○
	32Contact	○	○
Hyd. Device			
Std. Hyd. Unit	45bar/30 ℓ	●	●
Center Hyd. Supply Device	2x3(6Port)	○	○
	2x5(10Port)	○	○
Compact Center Hyd. Supply Device	2x3(6Port)	○	○
Hyd. Unit for Fixture	45bar	○	○
	70bar	○	○

SPECIFICATIONS

External Dimensions

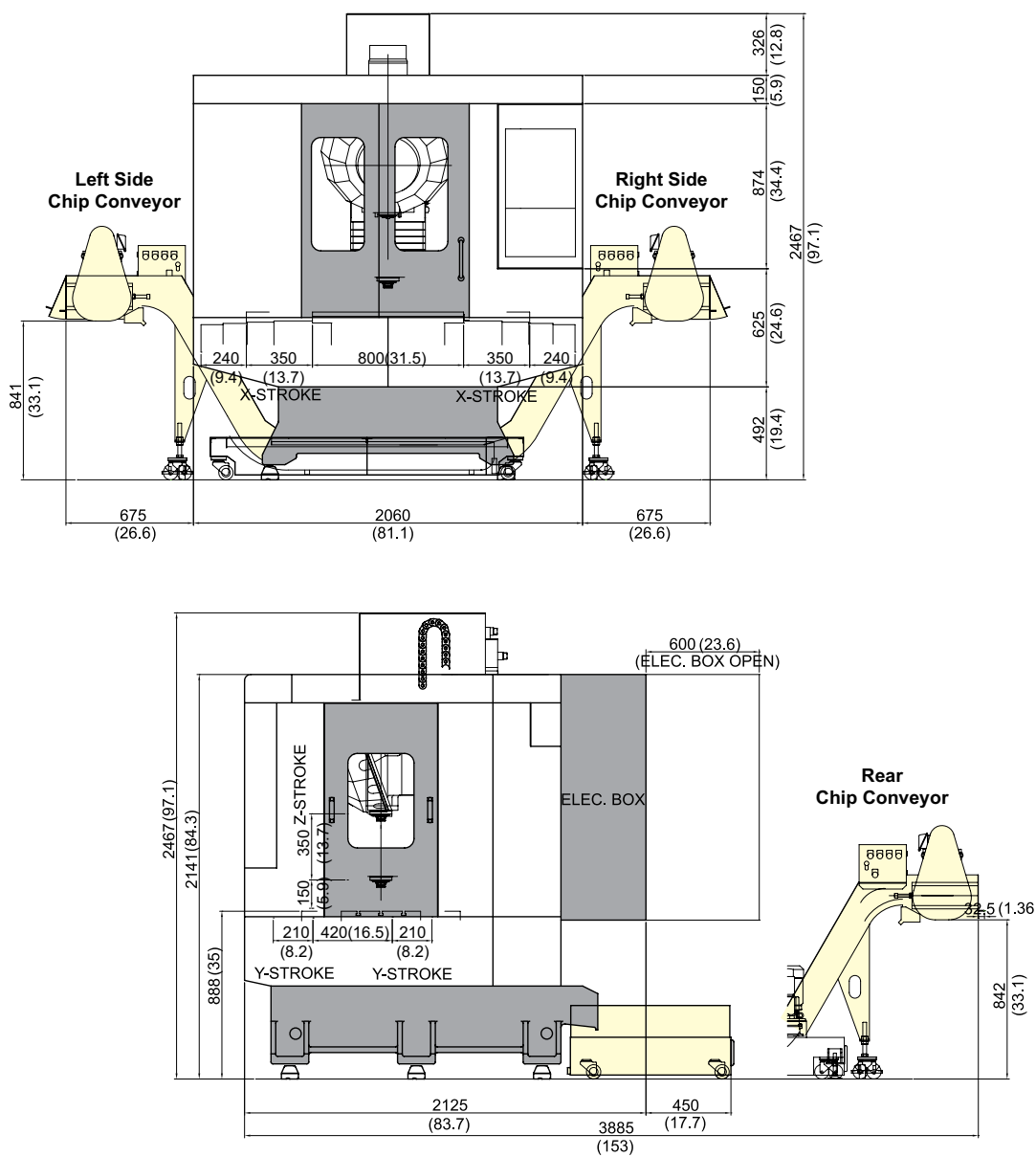
unit : mm(in)

i-CUT380T



External Dimensions

i-CUT420T



HYUNDAI WIA
MACHINE TOOL

unit : mm(in)

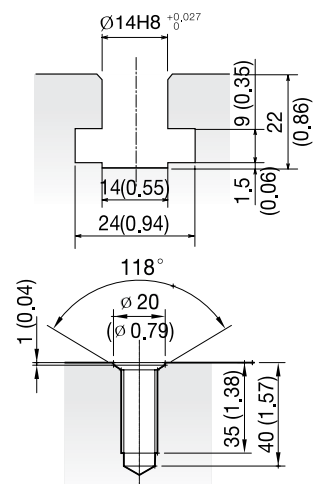
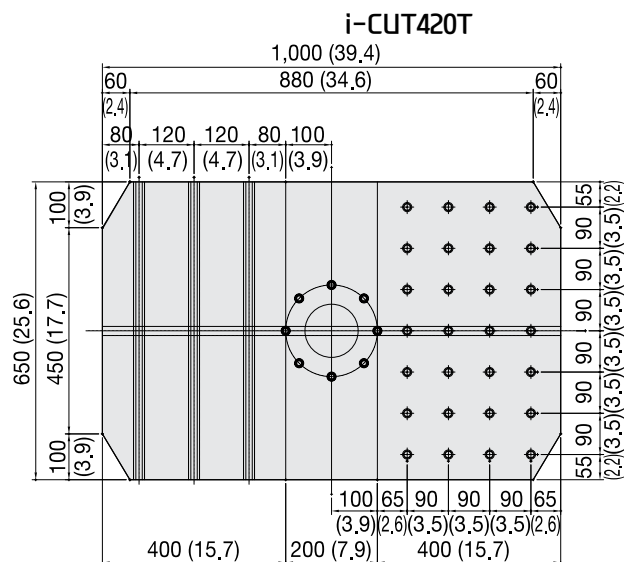
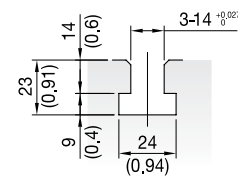
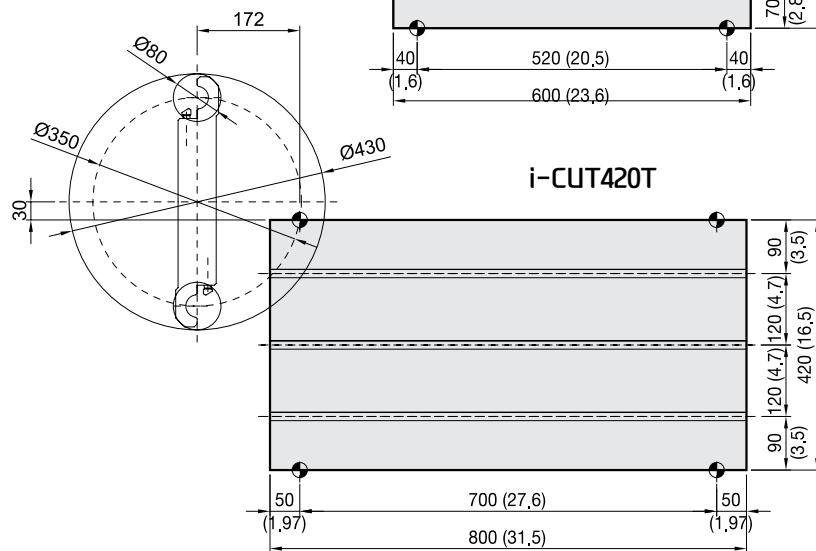
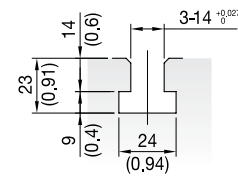
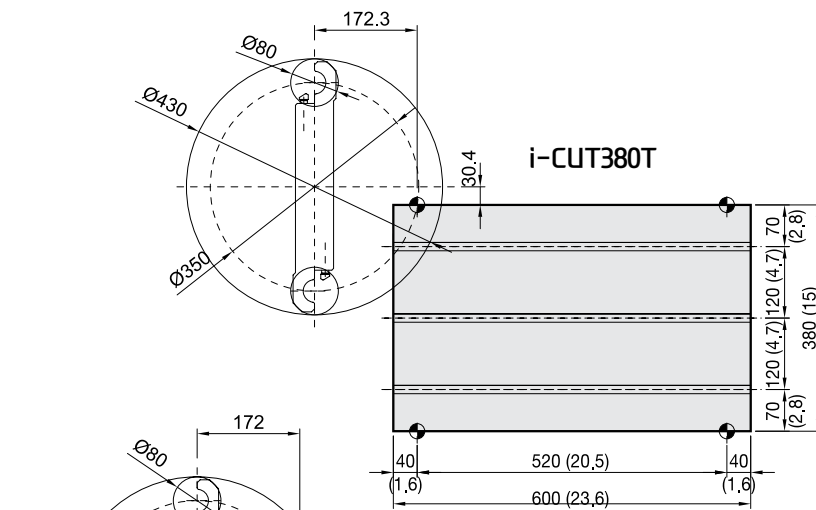
I-CUI SERIES
VERTICAL TAPPING CENTER



SPECIFICATIONS

Table Dimensions

unit : mm(in)

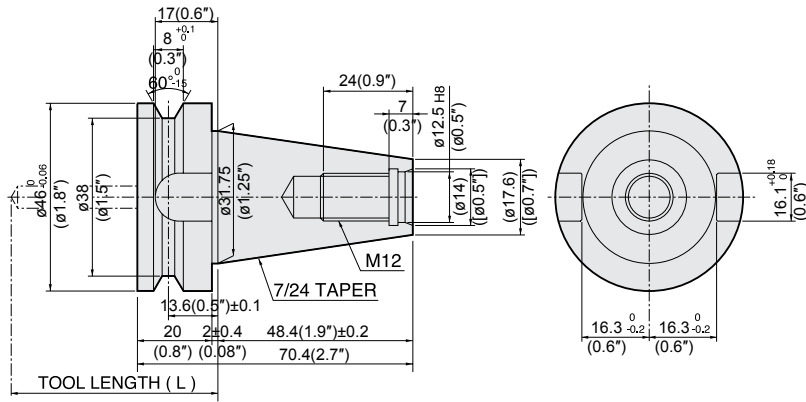


SPECIFICATIONS

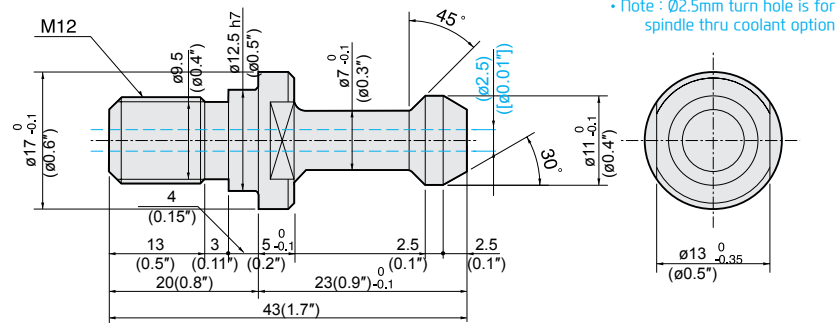
Tool Shank

unit : mm(in)

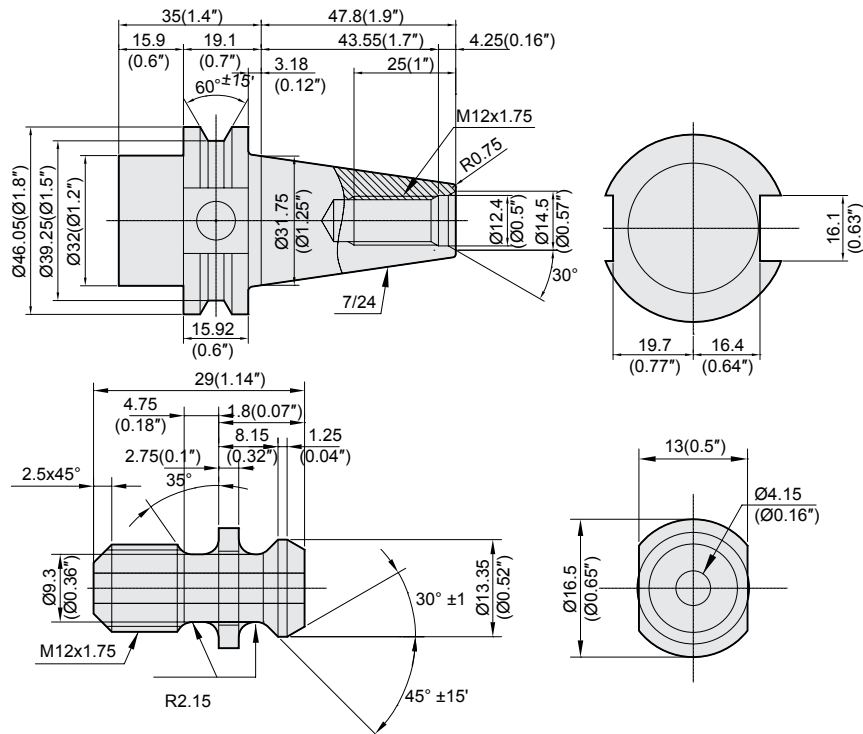
BBT 30
TOOL



MAS403
P30T-1



CAT 30
TOOL



SPECIFICATIONS

Specifications

[] : Option

ITEM			i-CUT380T	i-CUT380TD	i-CUT420T
TABLE	Table Size	mm(in)	600×380 (23.6"×15")	2-650×400 (2-23.6"×15.7")	800×420 (31.5"×16.5")
	Maximum Load Capacity	kg(lb)	200 (440.9)	2-250 (2-551.1)	200 (440.9)
	Table Change Time	sec	-	6	-
	Change Method	-	-	ROTARY TURN	-
	Table Driving Method	-	-	Rack & Pinion	-
SPINDLE	Spindle Taper	-	NT #30		
	Spindle RPM	r/min	12,000 [12,000]		
	Spindle Power Output (Max./Cont.)	kW(HP)	7.5/5.5(10/6) [6.6/4.1 (8.9/5.5)]		
	Spindle Torque (Max./Cont.)	N·m(lbf.ft)	47.7/13.1 (35.2/9.7) [21/13 (15.5/9.6)]		
	Spindle Driving Method	-	DIRECT [DIRECT]		
FEED	Travel (X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8") [TwinArm : 480 (18.9")]	520/360/350 (20.5"/14.2"/13.8") [TwinArm : 480 (18.9")]	700/420/350 (27.5"/16.5"/13.8") [TwinArm : 480 (18.9")]
	Distance from Table Surface to Sp	mm(in)	150~500(5.9"~19.7") [TwinArm:150~630(5.9"~24.8")]	200~550(7.9"~21.7") [TwinArm:200~680(7.9"~26.8")]	150~500(5.9"~19.7") [TwinArm:150~630(5.9"~24.8")]
	Distance from Column to SP. center	mm(in)	444 (17.5")		484 (19")
	Rapid Feed Rate (X/Y/Z)	m/min	56/56/56	50/50/56	
	Cutting Feed Rate (X/Y/Z)	m/min	20		
	Slide Type	-	LM GUIDE		
ATC	Number of Tools	EA	14 [20] [TwinArm : 24]	14 [TwinArm : 24]	14 [20] [TwinArm : 24]
	Tool Shank	-	BT30		
	Max. Tool Dia. (W.T / W.O)	mm(in)	Ø80/Ø100(3.1"/3.9") [TwinArm:Ø76/Ø130(3"/5.1"), Ø65/Ø130(2.6"/5.1")]		
	Max. Tool Length	mm(in)	200 (7.9")		
	Max. Tool Weight	kg(lb)	2.8 (6.2) [TwinArm : 3 (6.6)]		
	Tool Selection Method	-	MEMORY [TwinArm:RANDOM]		
	Tool Change Time	T-T	sec	1.3 [TwinArm:1.5]	
		C-C	sec	2.3 [TwinArm:2.2]	
TANK CAPACITY	Coolant Tank	ℓ (gal)	160 (42.2)		
	Lubricating Tank	ℓ (gal)	2 (0.53)		
	Hydraulic Tank	ℓ (gal)	-	30 (7.9)	-
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ /min(gal)	200 (52.8)		
	Electric Power Supply	KVA	17		
	Thickness of Power Cable	Sq	Over 25		
	Voltage	V/Hz	220/60 (200/50)		
MACHINE	Floor Space (L×W)	mm(in)	1,680×2,540 (66.1"X100")	1,720×3,150 (67.7"X124")	2,060×2,575 (81.1"X101.4")
	Height	mm(in)	2,393 (94.2")	2,483 (97.8")	2,468 (97.2")
	Weight	kg(lb)	2,900 (6,393)	5,200 (11,464)	3,500 (7,716)
PC	Controller	-	HYUNDAI WIA FANUC i Series [SIEMENS 828D]		

SPECIFICATIONS

Specifications

[] : Option

ITEM			i-CUT380Ti	i-CUT380TDi	i-CUT380Tec
TABLE	Table Size	mm(in)	600×380 (70.9"×27.6")	2-650×400 (2-23.6"×15.7")	600×380 (70.9"×27.6")
	Maximum Load Capacity	kg(lb)	150 (330.7)	2-250 (2-551.1)	200 (440.9)
	Table Change Time	sec	-	6	-
	Change Method	-	-	ROTARY TURN	-
	Table Driving Method	-	-	Rack & Pinion	-
SPINDLE	Spindle Taper	-	NT #30		
	Spindle RPM	r/min	12,000		12,000
	Spindle Power Output (Max./Cont.)	kW(HP)	6.6/4.1 (8.9/5.5)		7.5/5.5 (10/7.5)
	Spindle Torque (Max./Cont.)	N·m(lb·ft)	21/13 (15.5/9.6)		47.7/13.1 (35.2/9.7)
	Spindle Driving Method	-	DIRECT		
FEED	Travel (X/Y/Z)	mm(in)	520/380/350 (20.5"/15"/13.8") [TwinArm : 480 (18.9")]	520/360/350 (20.5"/14.2"/13.8") [TwinArm : 480 (18.9")]	520/380/350 (20.5"/15"/13.8") [TwinArm : 480 (18.9")]
	Distance from Table Surface to Sp	mm(in)	150~500(5.9"~19.7") [TwinArm:150~630(5.9"~24.8")]	200~550(7.9"~21.7") [TwinArm:200~680(7.9"~26.8")]	150~500(5.9"~19.7") [TwinArm:150~630(5.9"~24.8")]
	Distance from Column to SP. center	mm(in)	444 (17.5")		
	Rapid Feed Rate (X/Y/Z)	m/min	60/60/60	48/48/60	50/50/50
	Cutting Feed Rate (X/Y/Z)	m/min	20		
	Slide Type	-	LM GUIDE		
ATC	Number of Tools	EA	14 [20] [TwinArm : 24]	14 [TwinArm : 24]	14 [20] [TwinArm : 24]
	Tool Shank	-	BT30		
	Max. Tool Dia. (W.T / W.O)	mm(in)	Ø80/Ø100(3.1"/3.9") [TwinArm:Ø65/Ø130(2.6"/5.1"), Ø76/Ø130(3"/5.1")]		
	Max. Tool Length	mm(in)	200 (7.9")		
	Max. Tool Weight	kg(lb)	2.8 (6.2) [TwinArm : 3 (6.6)]		
	Tool Selection Method	-	MEMORY [TwinArm:RANDOM]		
	Tool Change Time	T-T sec C-C sec	1.3 [TwinArm:1.5] 2.3 [TwinArm:2.2]		
TANK CAPACITY	Coolant Tank	ℓ (gal)	160 (42.2)		
	Lubricating Tank	ℓ (gal)	2 (0.53)		
	Hydraulic Tank	ℓ (gal)	-	30 (7.9)	-
POWER SUPPLY	Air Consumption (0.5MPa)	ℓ /min(gal)	200 (52.8)		
	Electric Power Supply	kVA	20		17
	Thickness of Power Cable	Sq	Over 25		
	Voltage	V/Hz	220/60 (200/50)		
MACHINE	Floor Space (L×W)	mm(in)	2,550×2,540 (100.4"×100")	1,790×2,764 (70.5"×108.8")	1,680×2,540 (66.1"×100")
	Height	mm(in)	2,393 (94.2")	2,586 (101.8")	2,500 (98.4")
	Weight	kg(lb)	2,900 (6,393)	4,500 (9,921)	2,900 (6,393)
NC	Controller	-	SIEMENS 828D		HW FANUC i Series

Specifications are subject to change for improvement without notice.

CONTROLLER

SIEMENS 828D

Control Function		Protection Function	
Max. configuration of axes	5 axes	Emergency Stop	Soft Limit
Max. configuration of axes and sp.	6 axes (axes + spindle)	Over Travel	
Least Command/input	0.0001mm / 0.00001inch	Contour Monitoring	
Feed Function		Program Protection	
Feedrate Override	0 - 120%	Automation Support Fun.	
Rapid Traverse Override	F1, 5, 25/50, 100%	Actual Speed Display(Monitor)	Time, Parts
Acceleration with jerk limitation		Tool Life Management	Internal
Programmable acceleration		Work Count Function	
Follow-up mode		Language Function	
Measuring system 1 and 2, selectable		Two Language switchable	Chinese Traditional, Czech, Danish,
Separate path feed for corners and chamfers			Dutch, Finnish, Hungarian, Japanese,
Travel to fixed stop			Korean, Polish, Russian, Swedish,
Spindle Functions			Portuguese, Turkish
Spindle Override		Data Transfer	
Spindle Orientation		RS 232C I/F	
Spindle Speed Limitation	50% - 120%	Ethernet	
Rigid Tapping		USB Memory Stick & CF Card	
Interpolations		Option	
Linear interpolation axes	Max 4 axes	DRF offset	
Circle via center point and end point		Load and save of MDI	
Circle via interpolation point		Teach-in	
Helical interpolation		Number of levels for skip blocks 8	
non-uniform rational B splines		Simulation in 3-D display	
Advanced Surface	High Speed, Hi Rigidity Function	Interactive Program	
Compressor for 3-axis machining		TRACYL (Cylinder interpolation)	
Tool Function		TRANSMIT (Pole coordinate command)	
Tool Nose R Comp./Tool Radius Comp.			
Zero Offset (G54, G55, G56, G57, G58, G59)	Standard 100 EA		
Programmable Zero Offset			
3D Tool Radius Compensation			
Tool management			
Display			
CRT / MDI	TFT 10.4" Color		
Screen saver			
Manual Operation			
Manual Handle/Jog Feed			
Reposition			
Reference Approach	Ref 1, 2 Approach		
Spindle Control	Start, Stop, Rev, Jog, Ort.		
Auto Operation			
Single Block			
Feed Hold			
Optional Block Skip			
Machine Lock	2D		
Dry Run			
Simulation			
Diagnosis Function			
알람표시			
Monitor			
PLC status/LAD display			
Programming Function			
Part Program Storage Length	5MB		
Program Name	23 digits		
Subroutine Call	7Level		
Absolute/incremental Command	G90 - G91		
Scaling, ROT			
Inch / Metric Conversion			
Conversational Cycle Program			
Block Search			
Macro			
Read / Write System Variable			
BackGround Editing	M - Code		
Miscellaneous Functions			
Skip	M00, M01, M02, M30		
Program Stop/End			
Lookahead, Jerk LimitationFeed & forward control	AICC		
SIEMENS Program exe.			
Maximum number of tools/cuttings	128/256		
Number of levels for skip blocks 1			

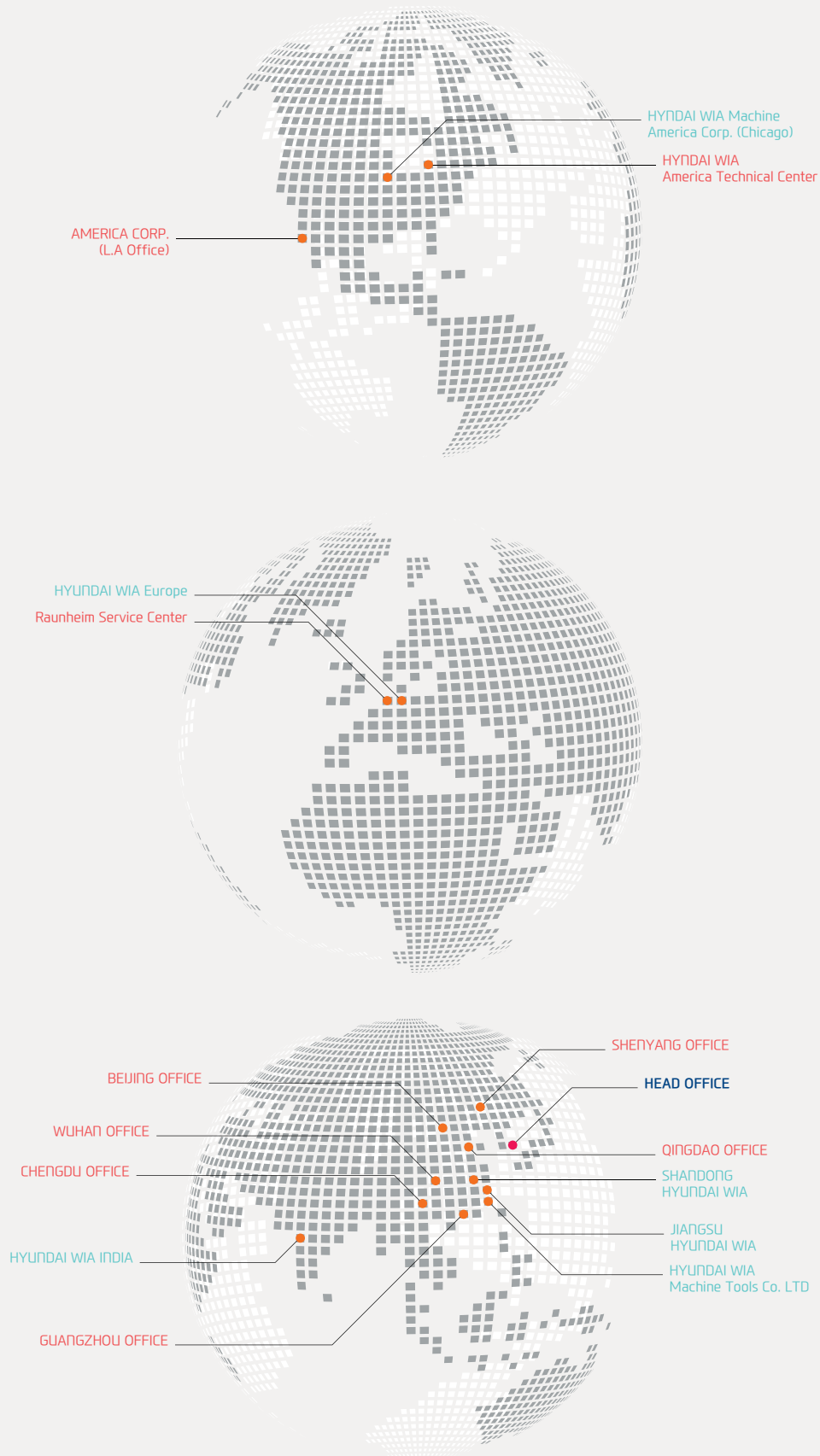
CONTROLLER

HYUNDAI WIA FANUC i Series

Axis control / Display unit		Program input & Interpolation functions	
Controlled axes	3 (X/Y/Z) axes	Automatic coordinate system setting	
Simultaneous controllable axes	3 axes (G00 & G01:3 axes, G02 & G03:2 axes)	Coordinate system rotation	G68, G69
Least input increment	X, Y, Z axis: 0.001 mm (0.0001")	Programmable mirror image	G50.1, G51.1
Least command increment	X, Y, Z axis: 0.001 mm (0.0001")	Single direction positioning	G60
Inch/Metric conversion	G20 / G21	External data input	Tool offset/message/machine zero point shift
Interlock	Each axis / All axes	Cylindrical interpolation	
Machine lock	All axis	AI advanced preview control	G5.1 (20)
Emergency stop		Polar coordinate command	G15, G16
Stored stroke check 1	Over Travel	Sub / Spindle functions	
Stored stroke check 2		Miscellaneous function	M3 digits
Stored stroke check 3		Miscellaneous function lock	
Follow-up		Spindle speed command	S5 digits, binary output
Servo off		Spindle speed override	50%~120% (10% unit)
Backlash compensation	+/- 0~9999 pulse (rapid traverse & cutting feed)	Spindle orientation	
Position switch		Rigid tapping	
Stored pitch error compensation		Tool functions / Tool compensation	
LCD/MDI	8.4" color LCD	Tool function	Max. T8 digits
Operation		Cutter compensation C	G40~G42
Automatic operation (memory)		Tool length measurement	Z Axis INPUT C
MDI operation		Tool length compensation	G43, G44, G49
DNC operation	Need DNC Program	Tool offset amount	G45~G48 (+/- 6 digits)
Search function	Sequence, Program	Tool offset pairs	400 pairs
Program restart		Tool life management	
Wrong operation prevention		Data input / Output & Editing functions	
Buffer register		Reader/Puncher interface	RS232C
Program check function	Dry run., program check	Memory card input/output	
Single block		Embedded Ethernet	100Mbps
Handle interrupt		Part program storage length	1280m (512 Kbyte)
Feed functions		Registered programs	400 ea
Manual jog feed	Rapid, Jog, handle	Memory lock	
Manual handle feed-rate	x1, x10, x100	Back ground editing	
Feed command	F code feedrate direct command	Extended part program editing	Copy, move, change of NC program
Feedrate override	0~200% (10% Unit)	Setting, display, diagnosis	
Jog feed	0~5,000 mm/min (197 ipm)	Self-diagnosis function	
Rapid traverse override	F0, F25%, F50%, F100%	History display	Alarm & operator message
Override cancel		Help function	
Rapid traverse bell-shaped acceleration/deceleration		Run hour/Parts count display	
Auto corner override	G62	Actual cutting feedrate display	
Program input & Interpolation functions		Spindle/Servo setting screen	
Label Skip		Multi-language display	Selection of 5 optional language
Control in/out		Dynamic switching display language	
Piano Interpolation	Positioning/Linear/Circular (G00/G01/G02/G03)	LCD Screen Save	Screen saver
Exact stop mode/Exact stop	G61 / G09	Option	
Dwell	G04, 0~9999.9999sec	Sub Axis Control	4, 5 Axis
Helical interpolation		Two way pitch error compensation	
Threading/synchronous feed	G33	Manual Guide Oi	8.4" color LCD
Manual reference point return		Manual Guide i	10.4" color LCD (Interactive Program)
Reference point return	G28	Dynamic graphic display	
Reference point return check	G27	Optional block skip add	9 ea (Application can be limited)
2nd, 3rd, 4th Reference point return	G30	AI contour control(AICC)	40 Block
Program stop/end	M00, M01 / M02, M30	AI contour control(AICC) II	200 Block
Tape code	EIA RS-244/ISO 840 (Automatic recognition)	Piano Smoothing	
Optional block skip	1 ea	Tool Management Function	
Max. programmable dimensions	+/- 9999.9999 (+/- 8digits)	Protection of data at 8 levels	
Program number	04 /N8	Data server	1GB
Absolute/incremental command	G90 / G91	FASTethernet	100 Mbps (Option board is required)
Decimal point input		Part program storage length Expand	5120m (2 Mbyte)
Plane selection	G17, G18, G19		
Work coordinate system setting	G52~G59		
Work coordinate preset	G50.3		
Additional work coordinate system	G54.1 P1 ~P48 (48 pairs)		
Manual absolute	"On" fixed		
Programmable data input	G10		
Sub program call	10 Step		
Custom macro			
Addition to custom macro common variables	#100 ~ #199, #500 ~ #999		
Circular interpolation	G02, G03		
Canned cycle	G73, G74, G76, G80 ~ G89		
Optional chamfering/corner R			
Skip function	G31		
High speed Skip function			

Figures in inch are converted from metric values.
Design and specifications subject to change without notice.

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