

CNC VERTICAL TURNING LATHE
NT&VTC-SERIES



韓國精密機械(株)

HNK MACHINE TOOL CO., LTD.

CNC VERTICAL TURNING LATHE



- Two-axis CNC vertical turning lathe.
- This model guarantees high rigidity, high speed operation and high accuracy due to the improved machine features such as rigid body construction and the latest control system.



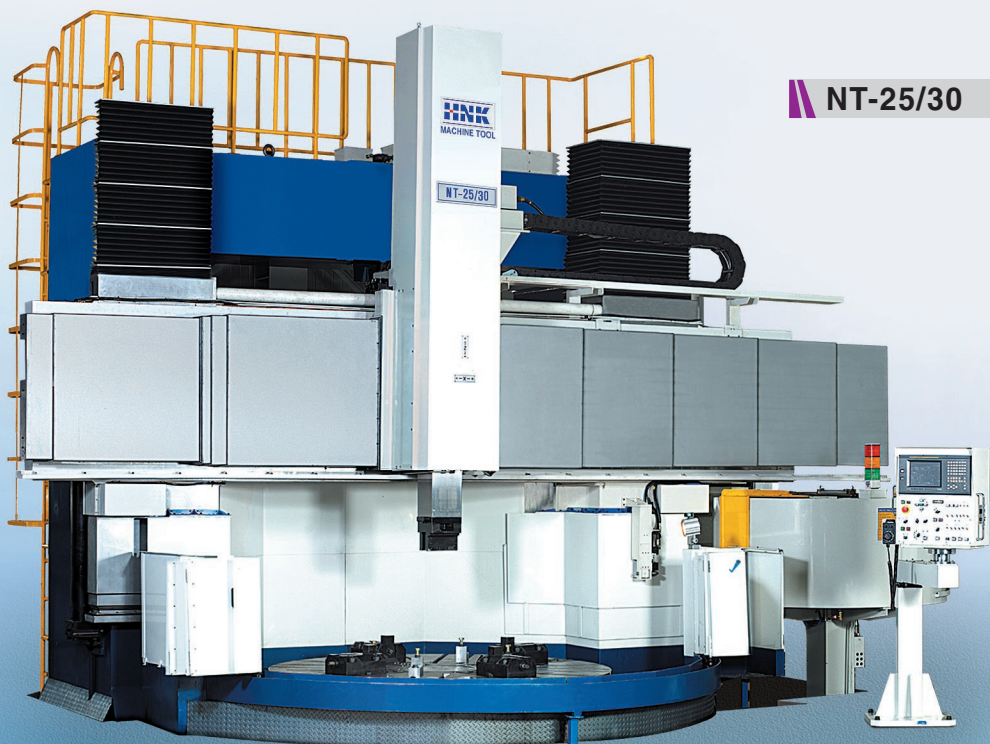
Introducing 'HNK' s CNC Vertical Turning Lathe Series...

HNK' s state-of-the-art CNC Vertical Turning Lathe Series deliver high speed and high precision machining to meet the needs of today' s metal cutting industry.



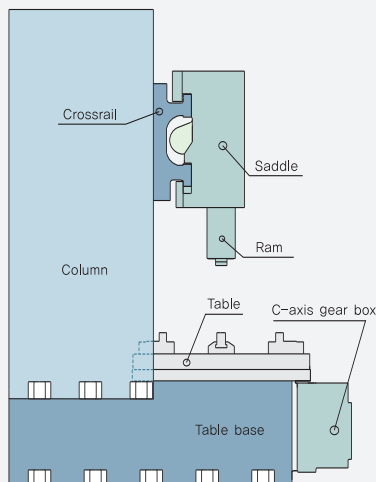
- Three-axis CNC vertical turning center
- Thanks to an indexing table and a live spindle, this model can do milling, tapping and other various machining jobs.
- The machine can complete its machining process after a single setup, which can save your time and cost.





Main Construction

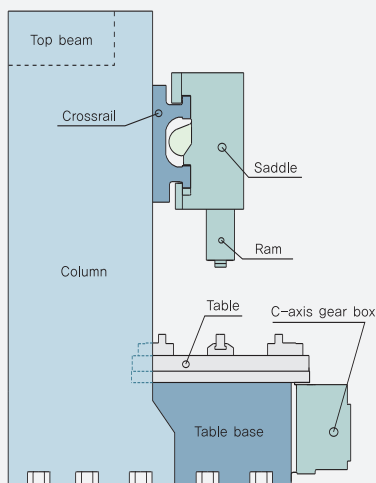
Compact-Models NT & VTC Models



Rigid table base and column construction

The column is bolted to the top of the table base. This type of construction minimizes any misalignment or out-of-squareness to provide high accuracy.

Grand-Models NT & VTC Models



Rigid double column construction

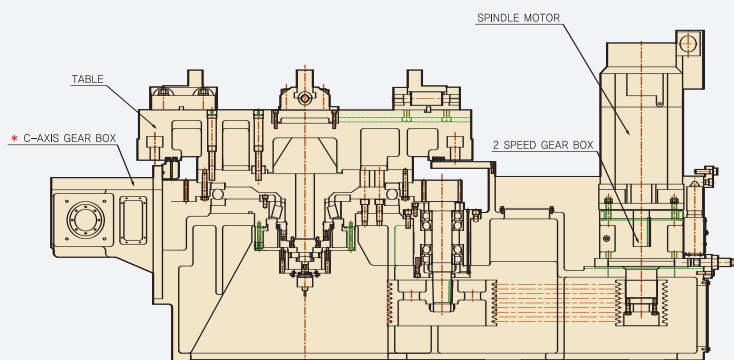
The bottom of double column is fixed on both floor and the table base, and the top is fixed against the top beam. Overall construction design is suitable for heavy loads and heavy-duty cutting.



NT-50/60

Table & Base

NT & VTC Compact Models & 25/30, 30/40



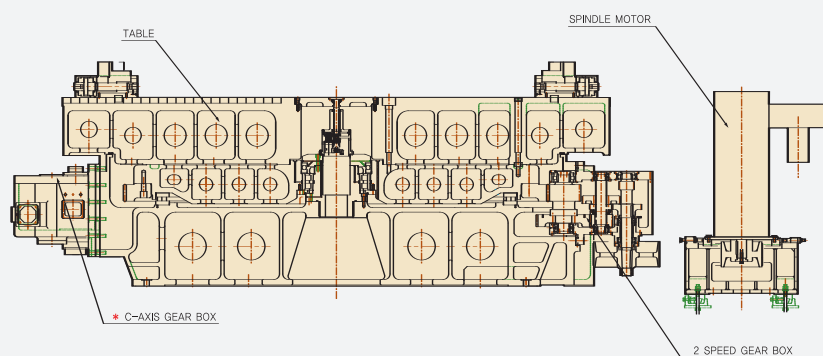
Minimal Turning Noise

Two-speed gear box is designed to prevent the gear-wheels noise and the gear vibrations, ensuring precision machining quality.

High Torque Table Drive

Two-stop(high /low) speed table drive offers high torque for heavy duty machining even at low table speed.

NT & VTC 40/50, 50/60, 60/70



Heavy Duty Construction

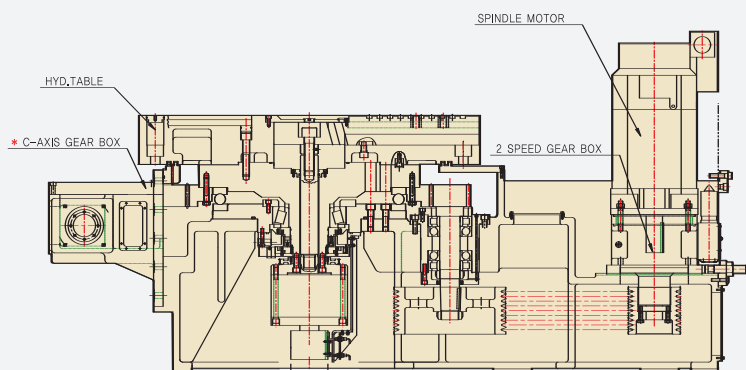
High precision cylindrical roller bearings and thrust bearings ensure heavy loads and high precision machining.

Accurate Table Indexing (VTC models)

Rotary encoder coupled with indexing gear and backlash compensation device offers precision 0.001. table indexing for C-axis machining.

* "C-axis gear box" is applicable only to VTC-Models

NT & VTC Series (Hydraulic chuck type)



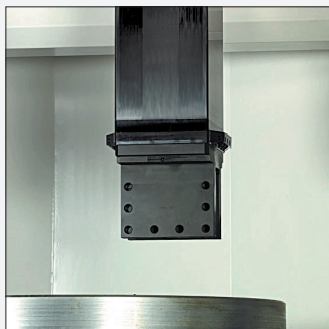
Hydraulic Chuck

- Hydraulic 3-jaw chuck is an optional item.
- If the hydraulic chuck is ordered with a machine, the standard 4-jaw manual independent chuck will not be provided with the machine.

Main Construction

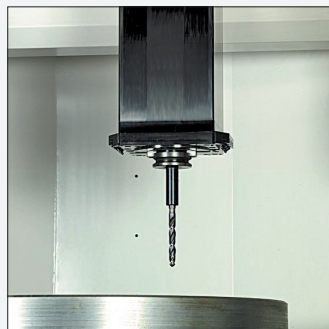
RAM HEAD

NT & VTC-Series



Turning

VTC-Series



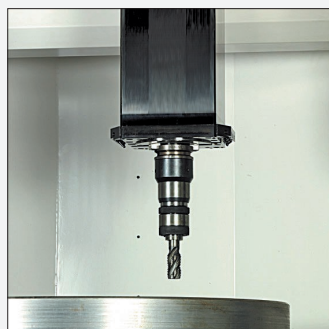
Drilling

VTC-Series



Milling

VTC-Series



Tapping

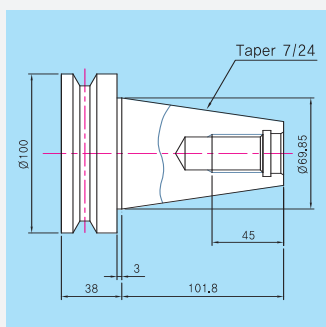
Rigid RAM Structure

Hardened, ground, and hydraulically balanced forged steel square ram is firmly encased in the heavily ribbed saddle.

Live Spindle (VTC-Series)

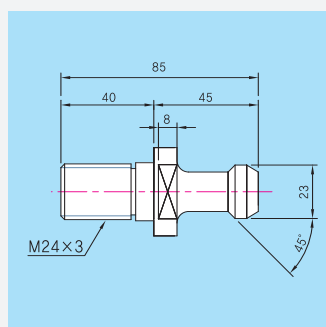
The VTC models are equipped with live spindle and 0.001, table indexing as standard to offer flexible machining capabilities.

Tool Shank



MAS 403 BT50

Pull Stud Bolt

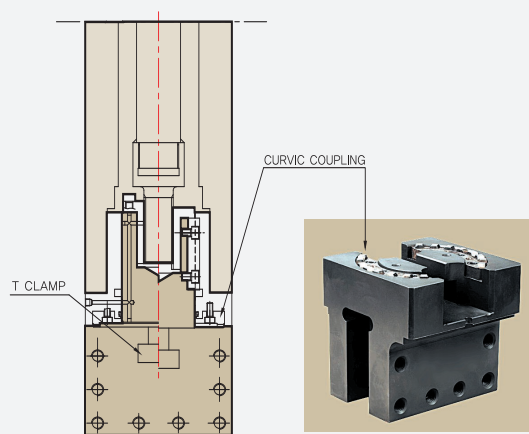


MAS 403 P50T-I(45)

NT-Series

The Ram head pulls the T-bolt with hydraulic power to clamp tool holder.

To insure accurate positioning and firm clamping of tool holder, Curvic coupling is used between the ram and tool holder.

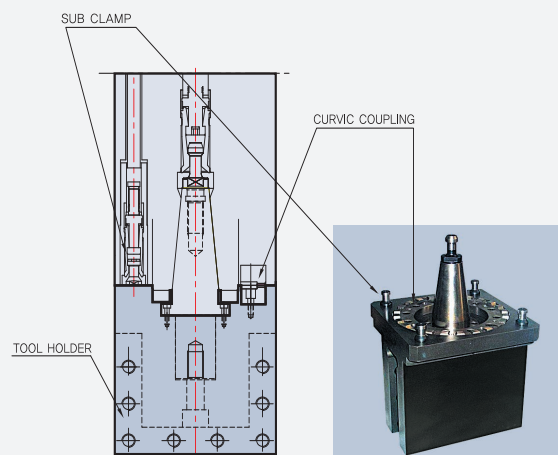


200 HK-01

VTC-Series

Tool holder clamping mechanism of the VTC-series is the pull-stud bolt type.

To accept both turning and milling tools, the Ram is designed to hold ISO.50 spindle taper.

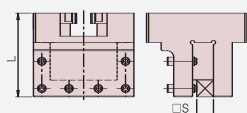


Turning Tool holders Clamp

240 TC-01

Turning Tool Holders for NT-Series

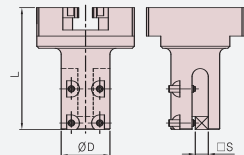
Standard Tool Holder



unit : mm

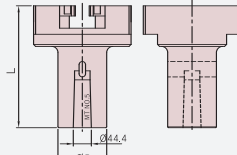
TYPE	L	S
200HK-01	200	40
240HK-01	200	40
300HK-01	250	40
350HK-01	250	40
400HK-01	280	60

Tool Holder



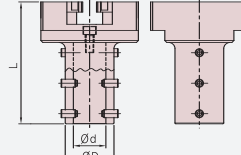
TYPE	ØD	L	S
200HK-02	120	300	32
240HK-02	120	300	32
300HK-02	120	300	32
350HK-02	140	300	32
400HK-02	200	500	40

Morse Taper Holder



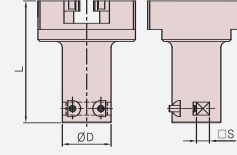
TYPE	ØD	L
200HK-03	120	300
240HK-03	120	300
300HK-03	120	300
350HK-03	140	300
400HK-03	200	500

Standard for Boring bar



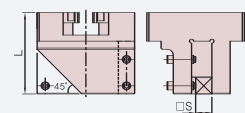
TYPE	ØD	Ød	L
200HK-04	120	90	300
240HK-04	130	90	300
300HK-04	130	90	300
350HK-04	140	100	300
400HK-04	200	110	500

Holder base



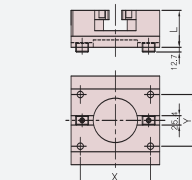
TYPE	ØD	L	S
200HK-05	120	300	32
240HK-05	120	300	32
300HK-05	120	300	32
350HK-05	140	300	32
400HK-05	200	500	40

Holder (right or left)



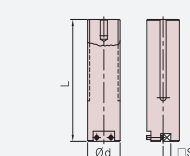
TYPE	L	S
200HK-06	200	40
240HK-06	200	40
300HK-06	250	40
350HK-06	250	40
400HK-06	280	60

Holder base



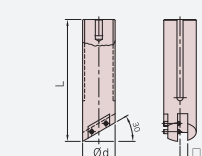
TYPE	L	X	Y
200HK-07	100	160	140
240HK-07	100	200	140
300HK-07	110	200	140
350HK-07	130	200	140
400HK-07	130	200	140

Boring bar



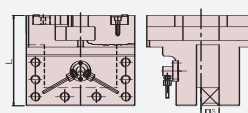
TYPE	ØD	L	S
200HK-08	90	A=300, B=400	25
240HK-08	90	A=300, B=400	25
300HK-08	100	A=400, B=500	25
350HK-08	100	A=400, B=500	25
400HK-08	110	A=400, B=500	25

Boring bar



TYPE	ØD	L	S
200HK-09	90	A=300, B=400	25
240HK-09	90	A=300, B=400	25
300HK-09	100	A=400, B=500	25
350HK-09	100	A=400, B=500	25
400HK-09	110	A=400, B=500	25

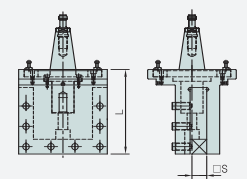
Thru-tool-coolant Holder



TYPE	L	S
240HK-01	200	40
300HK-01	250	40
350HK-01	250	40
400HK-01	280	60

Turning Tool Holders for VTC-Series

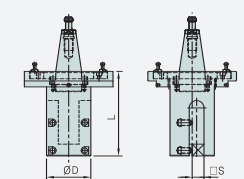
Standard Tool Holder



unit : mm

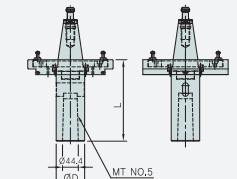
TYPE	L	S
240TC-01	229	40
300TC-01	250	40
350TC-01	275	40
400TC-01	280	60

Tool Holder



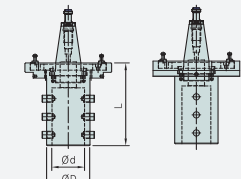
TYPE	ØD	S	L
240TC-02	120	32	229
300TC-02	120	32	277
350TC-02	140	32	282
400TC-02	200	40	500

Morse Taper Holder



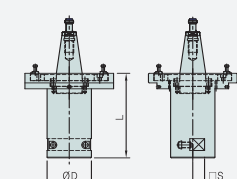
TYPE	ØD	L
240TC-03	80	229
300TC-03	80	277
350TC-03	—	—
400TC-03	—	—

Holder for Boring bar



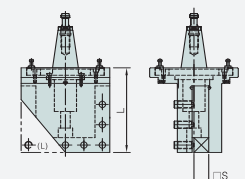
TYPE	ØD	Ød	L
240TC-04	120	90	229
300TC-04	120	90	277
350TC-04	140	100	282
400TC-04	200	110	500

Boring bar



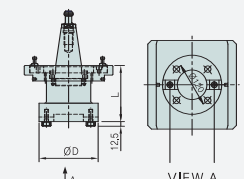
TYPE	ØD	L	S
240TC-05	120	229	32
300TC-05	120	277	32
350TC-05	140	282	32
400TC-05	200	500	40

Holder (right or left)



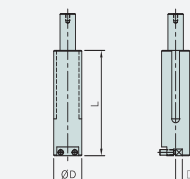
TYPE	L	S
240TC-06	229	40
300TC-06	250	40
350TC-06	275	40
400TC-06	280	60

Holder base



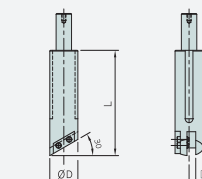
TYPE	ØD	L
240TC-07	180	152
300TC-07	180	152
350TC-07	180	152
400TC-07	260	250

Boring bar



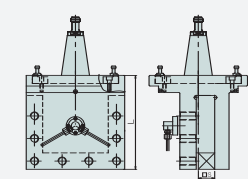
TYPE	ØD	L	S
240TC-08	90	A=300, B=400	25
300TC-08	90	A=300, B=400	25
350TC-08	100	A=400, B=500	25
400TC-08	110	A=400, B=500	25

Boring bar



TYPE	ØD	L	S
240TC-09	90	A=300, B=400	25
300TC-09	90	A=300, B=400	25
350TC-09	100	A=400, B=500	25
400TC-09	110	A=400, B=500	25

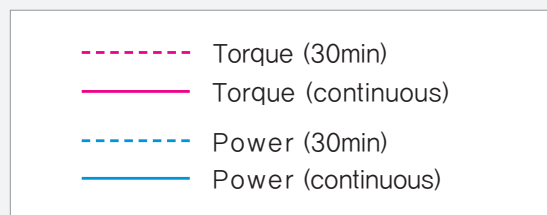
Thru-tool-coolant Holder



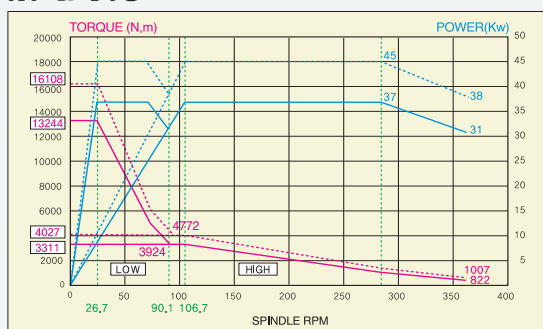
TYPE	L	S
240TC-01	229	40
300TC-01	250	40
350TC-01	275	40
400TC-01	280	60

Major Capabilities

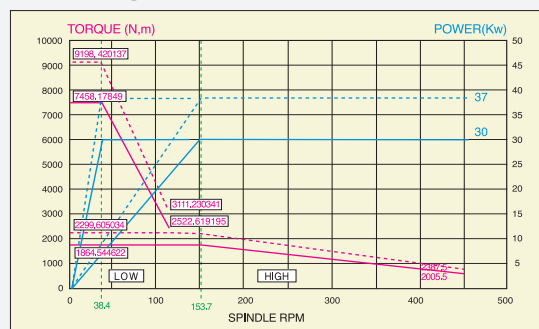
Table Power & Torque diagram



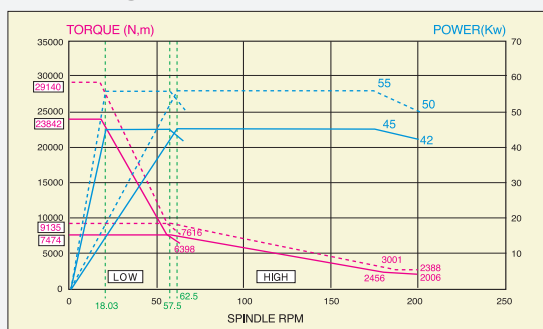
NT & VTC 10/12F



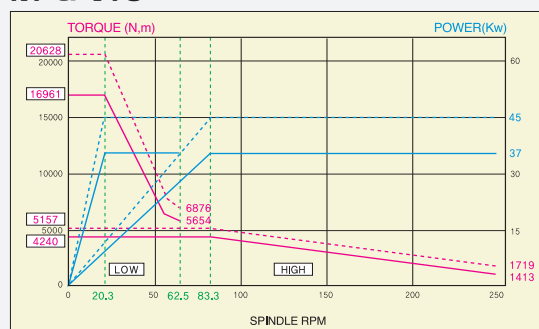
NT & VTC 10/12F



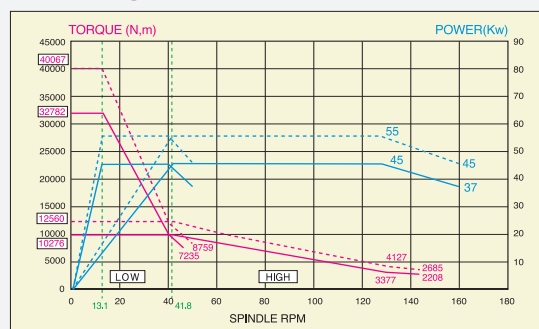
NT & VTC 20/25



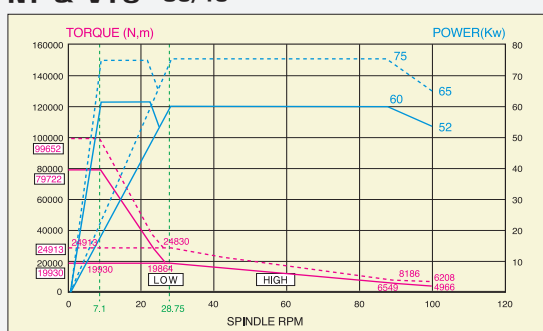
NT & VTC 16/20 (F)



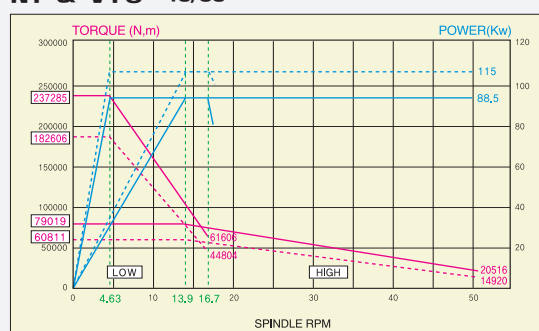
NT & VTC 25/30



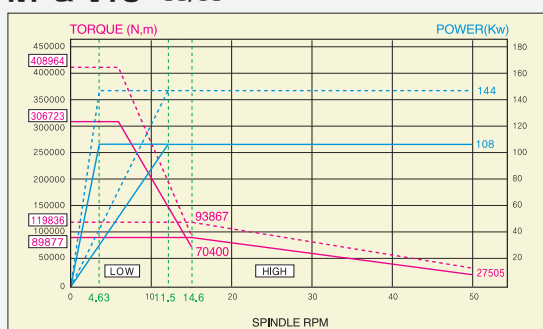
NT & VTC 30/40



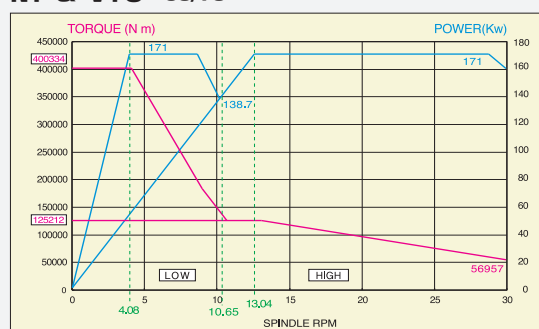
NT & VTC 40/50



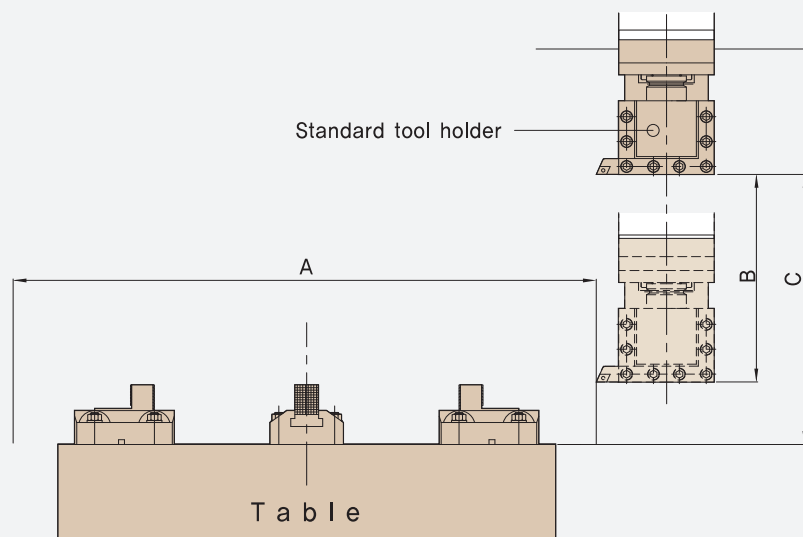
NT & VTC 50/60



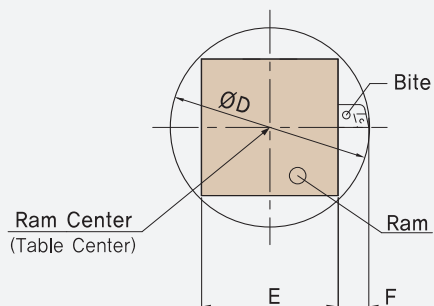
NT & VTC 60/70



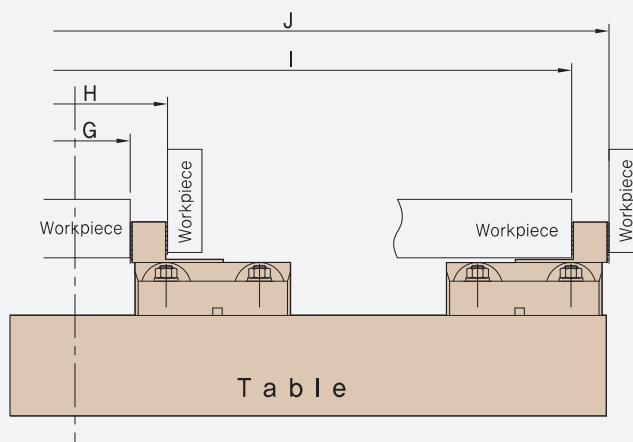
Machining Range



Minimum Boring



Chucking Range



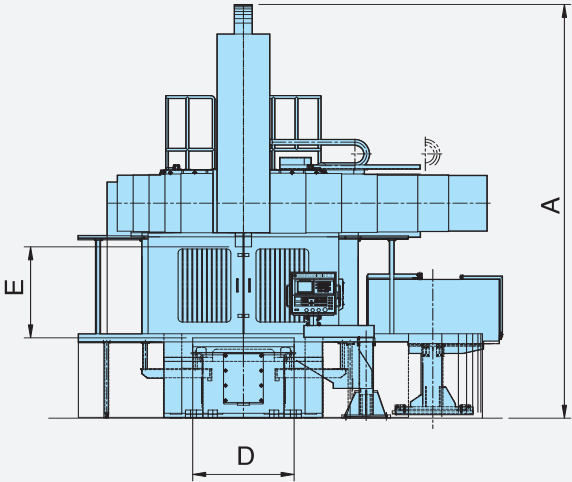
unit : mm

	A	B	C	D	E	F	G	H	I	J
NT & VTC-10/12F	1250	750	800	285/350	200/240	41/53	190	480	770	1020
NT & VTC-12/16F	1600	900	1000	285/350	200/240	41/53	190	300	1180	1290
NT & VTC-12/16	1600	900	1200	285/350	200/240	41/53	190	300	1180	1290
NT & VTC-16/20F	2000	900	1000	285/350	200/240	41/53	265	380	1520	1630
NT & VTC-16/20	2000	900	1600	285/350	200/240	41/53	265	380	1520	1630
NT & VTC-20/25	2500	1000	1800	350	240	53	400	545	1820	1960
NT & VTC-25/30	3000	1200	2000	350/425	240/300	53/63	600	743	2340	2480
NT & VTC-30/40	4000	1300	2200	425	300	63	600	743	2820	2960
NT & VTC-40/50	5000	1500	2500	495	350	73	800	965	3920	4080
NT & VTC-50/60	6000	2000	3000	570	400	83	1158	1734	4450	4703
NT & VTC-60/70	7000	2200	3500	570	400	83	2160	2735	5450	5700

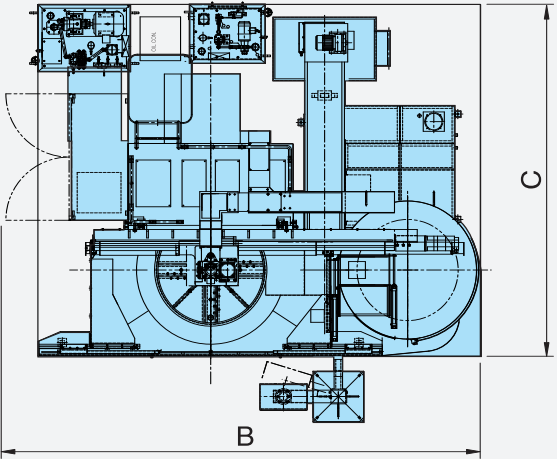
CNC VERTICAL TURNING LATHE

Dimensions

FRONT VIEW



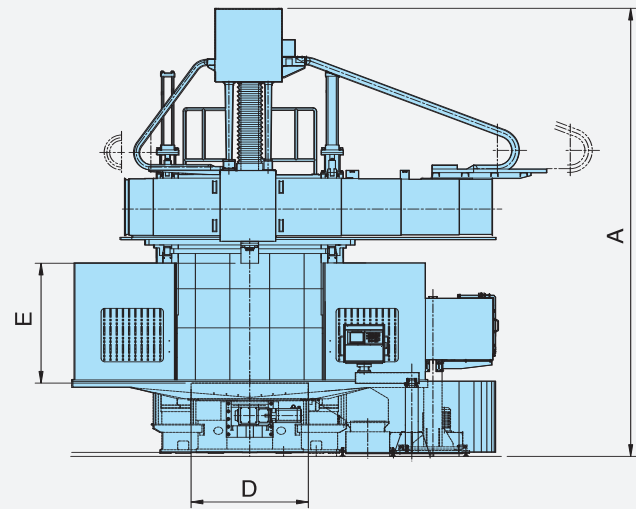
TOP VIEW



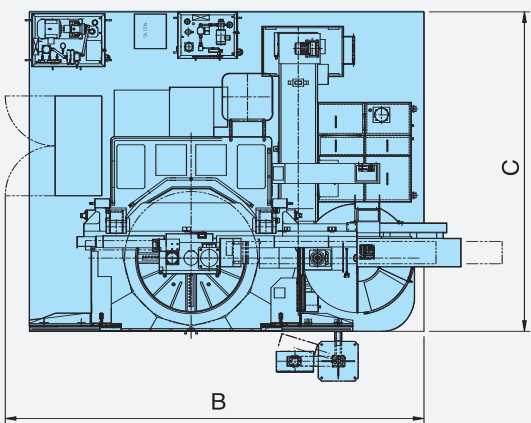
unit : mm

	A	B	C	D	E
N T-10/12F	4900	5400	4100	1000	800
VTC-10/12F	5100	5400	4100	1000	800
N T-12/16F	5100	5600	4200	1250	1000
VTC-12/16F	5500	5600	4200	1250	1000
N T-16/20F	5200	6000	4400	1600	1000
VTC-16/20F	5500	6700	4400	1600	1000

FRONT VIEW



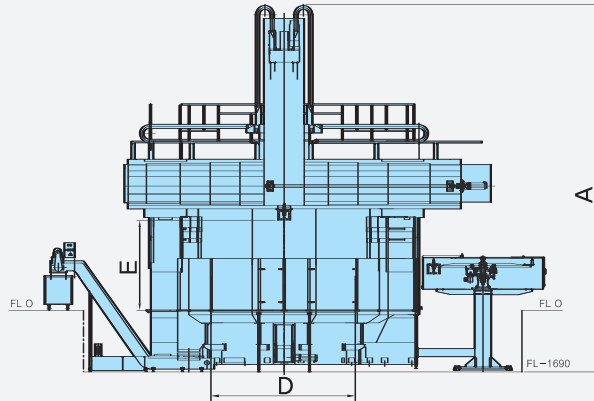
TOP VIEW



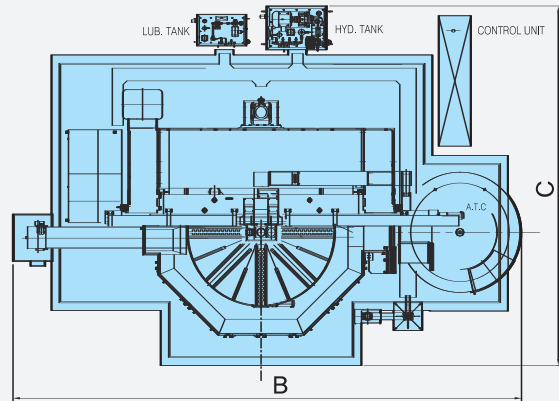
unit : mm

	A	B	C	D	E
N T-12/16	5750	6600	4200	1250	1200
VTC-12/16	6000	6600	4200	1250	1200
N T-16/20	6100	7000	4200	1600	1600
VTC-16/20	6100	7100	4200	1600	1600

FRONT VIEW



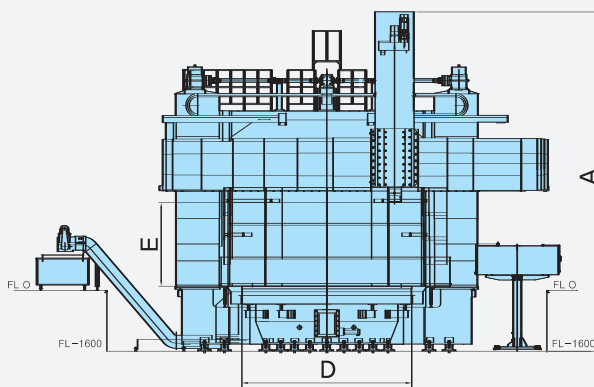
TOP VIEW



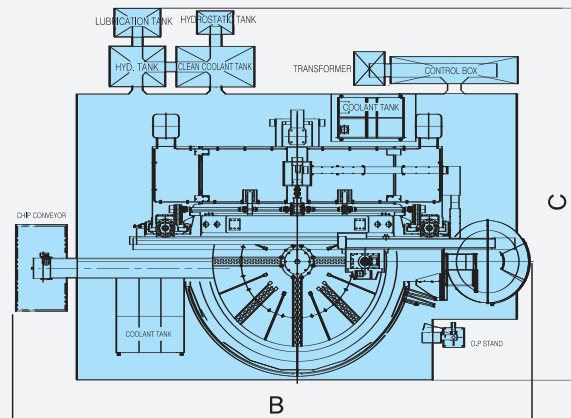
unit : mm

	A	B	C	D	E
N T-20/25	5200	9900	7200	2000	1800
VTC-20/25	7200	9900	7200	2000	1800
N T-25/30	7200	10700	8500	2500	2000
VTC-25/30	8000	11100	8100	2500	2000
N T-30/40	8300	11800	8500	3000	2200
VTC-30/40	8300	11800	8500	3000	2200

FRONT VIEW



TOP VIEW



unit : mm

	A	B	C	D	E
N T-40/50	10100	14000	9600	4000	2500
VTC-40/50	11100	14000	9600	4000	2500
N T-50/60	10400	15500	10000	5000	3000
VTC-50/60	11800	15200	11000	5000	3000
N T-60/70	12500	17000	12000	6000	3500
VTC-60/70	13000	17000	12500	6000	3500

Machine Specifications

NT-Series *CNC Vertical Lathe*

Item		Unit	Compact Models			
			NT-10/12F	NT-12/16F	NT-12/16	NT-16/20F
Capacity	Table Diameter	mm	1,000	1,250	1,250	1,600
	Max. Swing / Cutting diameter	mm	1,250	1,600	1,600	2,000
	Max. Turning Height*	mm	800	1,000	1,200	1,000
Table	Table Speed for Turning (2Steps)*	r.p.m	1 ~ 450	1 ~ 360	1 ~ 360	1 ~ 250
	Max. Load on Table	kg	4,500	8,000	8,000	10,000
Ram Head	Horizontal Travel of Ram Head (X-axis)	mm	-200 ~ +1,500	-200 ~ +1,700	-200 ~ +1,700	-200 ~ +1,900
	Vertical Travel of Ram Head (Z-axis)*	mm	750	900	900	900
	Rapid Feed of Ram Head (X-axis)*	mm/min	12,000	12,000	12,000	12,000
	Rapid Feed of Ram Head (Z-axis)*	mm/min	12,000	10,000	10,000	10,000
	Feed Rate of Ram Head (X & Z)	mm/min	1 ~ 6,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000
	Ram Size	mm	200×200	200×200	200×200	200×200
	Tool Shank Size	mm	40×40	40×40	40×40	40×40
Cross Rail	Vertical Travel of Cross Rail	mm	fixed type	fixed type	250×3 steps	fixed type
Motor power	Main Motor for Table Drive (cont/30min)	kW	A.C 30/37	A.C 37/45	A.C 37/45	A.C 37/45
	Motor for Ram Head (X, Z-axis)	kW	4	4	4	4
Total Weight (Approx)		kg	17,000	19,000	22,000	24,000

VTC-Series *CNC Vertical Turning Center*

Item		Unit	Compact Models			
			VTC-10/12F	VTC-12/16F	VTC-12/16	VTC-16/20F
Capacity	Table Diameter	mm	1,000	1,250	1,250	1,600
	Max. Swing / Cutting diameter	mm	1,250	1,600	1,600	2,000
	Max. Turning Height*	mm	800	1,000	1,200	1,000
Table	Table Speed for Turning (2Steps)*	r.p.m	1 ~ 450	2 ~ 360	2 ~ 360	1 ~ 250
	Max. Load on Table	kg	4,500	8,000	8,000	10,000
	Table Speed for Indexing (C-axis)	r.p.m	0 ~ 3	0 ~ 1	0 ~ 1	0 ~ 1
		deg	0.001	0.001	0.001	0.001
Ram Head	Horizontal Travel of Ram Head (X-axis)	mm	-200 ~ +1,500	-200 ~ +1,700	-200 ~ +1,700	-200 ~ +1,900
	Vertical Travel of Ram Head (Z-axis)*	mm	750	900	900	900
	Rapid Feed of Ram Head (X-axis)*	mm/min	12,000	12,000	12,000	12,000
	Rapid Feed of Ram Head (Z-axis)*	mm/min	12,000	10,000	10,000	10,000
	Feed Rate of Ram Head (X & Z)	mm/min	1 ~ 6,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000
	Milling Spindle Speed	r.p.m	15 ~ 1,500	15 ~ 1,500	15 ~ 1,500	15 ~ 1,500
	Milling Spindle Taper	—	ISO 50	ISO 50	ISO 50	ISO 50
	Ram Size	mm	240×240	240×240	240×240	240×240
	Tool Shank Size	mm	40×40	40×40	40×40	40×40
Cross Rail	Vertical Travel of Cross Rail	mm	fixed type	fixed type	250×3 steps	fixed type
Motor power	Main Motor for Table Drive (cont/30min)	kW	A.C 30/37	A.C 37/45	A.C 37/45	A.C 37/45
	Motor for Milling Spindle (cont/30min)	kW	A.C 11/15	AC 15/18.5	AC 15/18.5	AC 15/18.5
	Motor for Ram Head (X, Z-axis)	kW	4	4	4	4
	Motor for Table Indexing (C-axis)	kW	4	4	4	4
CNC Controller		—	Fanuc 18iTB [Siemens 840D]			
Total Weight (Approx)		kg	18,000	20,000	23,000	25,000

※ The model with ' F ' is the crossrail-fixed type
 ※ The Star mark '*' is available to be changed with customer's request

[] : Option

		Grand Models				
NT-16/20	NT-20/25	NT-25/30	NT-30/40	NT-40/50	NT-50/60	NT-60/70
1,600	2,000	2,500	3,000	4,000	5,000	6,000
2,000	2,500	3,000[3,500]	4,000	5,000	6,000[6,500]	7,000
1,600	1,800	2,000	2,200	2,500	3,000	3,500
1 ~ 250	1 ~ 200	1 ~ 100	1 ~ 80	1 ~ 50	1 ~ 50	1 ~ 30
10,000	12,000	15,000	25,000	40,000	60,000	150,000
-200 ~ +1,900	-200 ~ +2,150	-200 ~ +2,800	-200 ~ +3,350	-200 ~ +4,200	-200 ~ +4,700	-200 ~ +5,500
900	1,000	1,200	1,300	1,500	2,000	2,200
12,000	10,000	10,000	8,000	8,000	6,000	6,000
10,000	10,000	10,000	8,000	8,000	6,000	6,000
1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000
200×200	240×240	240×240	300×300	350×350	400×400	400×400
40×40	40×40	40×40	40×40	40×40	60×60	60×60
250×3 steps	250×3 steps	250×4 steps	250×6 steps	250×7 steps	250×7 steps	250×8 steps
A.C 37/45	A.C 45/55	A.C 45/55	A.C 60/75	D.C 88.5/115	D.C 108/144	D.C 171
4	7	6	6	9	9	14
26,000	45,000	65,000	80,000	140,000	200,000	280,000

[] : Option

		Grand Models				
VTC-16/20	VTC-20/25	VTC-25/30	VTC-30/40	VTC-40/50	VTC-50/60	VTC-60/70
1,600	2,000	2,500	3,000	4,000	5,000	6,000
2,000	2,500	3,000[3,500]	4,000	5,000	6,000[6,500]	7,000
1,600	1,800	2,000	2,200	2,500	3,000	3,500
1 ~ 250	1 ~ 200	1 ~ 100	1 ~ 80	1 ~ 50	1 ~ 50	1 ~ 30
10,000	12,000	15,000	25,000	40,000	60,000	150,000
0 ~ 1	0 ~ 0.5	0 ~ 0.5	0 ~ 0.3	0 ~ 0.3	0 ~ 0.3	0 ~ 0.3
0.001	0.001	0.001	0.001	0.001	0.001	0.001
-200 ~ +1,900	-200 ~ +2,150	-200 ~ +2,800	-200 ~ +3,350	-200 ~ +4,200	-200 ~ +4,700	-200 ~ +5,500
900	1,000	1,200	1,300	1,500	2,000	2,200
12,000	10,000	10,000	8,000	8,000	6,000	6,000
10,000	10,000	10,000	8,000	8,000	6,000	6,000
1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000	1 ~ 3,000
15 ~ 1,500	15 ~ 1,500	15 ~ 1,500	15 ~ 1,500	15 ~ 1,500	15 ~ 1,500	15 ~ 800
ISO 50	ISO 50	ISO 50	ISO 50	ISO 50	ISO 50	ISO 50
240×240	240×240	300×300	300×300	350×350	400×400	400×400
40×40	40×40	40×40	40×40	40×40	60×60	60×60
250×3 steps	250×3 steps	250×4 steps	250×6 steps	250×7 steps	250×7 steps	250×8 steps
A.C 37/45	A.C 45/55	A.C 45/55	A.C 60/75	D.C 88.5/115	D.C 108 / 144	D.C 171
AC 15/18.5	AC 15/18.5	AC 15/18.5	A.C 22/26	A.C 22/26	A.C 22/26	A.C 37/45
4	7	6	6	9	9	14
4	7	6	6	9	9	14
		Fanuc 18iTB [Siemens 840D]				
29,000	48,000	70,000	85,000	146,000	210,000	292,000

Accessories

STANDARD ACCESSORIES

- Automatic Tool Changer (12pots)
- Standard Turning Tool Holders (2pcs)
- Table Bearing Cooling Unit
- Chip Conveyor(Hinge Type)
- Chip Bucket
- External Coolant System
- Splash Guard
 - Full Type (Compact Models)
 - Table Type (Grand Models)
- 4-jaw Independant Manual Chuck
- Hydraulic Power Unit
- X-axis Telescopic Cover
- Work Light
- Patrol Light (3 colors)
- Foundation Bolts & Nuts
- Operating Tool Kits

OPTIONAL ACCESSORIES

- Hydraulic Chuck
- Automatic Pallet Changer
- Automatic Tool Changer (16/24/30/36 pots)
- Coolant-Thru-the-Tool Device
- Turning Tool Holders
- Grinding Attachment
- Scale Feedback System (X, Z-axis)
- Automatic Power Off
- Transformer
- Work Probe
- Tool Setter
- Half Type Splash Guard (Grand Models)
- Full type Splash Guard (Grand Models)

OPTIONAL ACCESSORIES for VTC-SERIES ONLY

- Coolant Thru-the Spindle Device (T.S.C)
- Right Angular Attachment
- Universal Angular Attachment
- Spindle Speed (2,000 / 3,000 / 4,000 rpm)

Standard Accessories



Automatic Tool (Tool holder) Changer

Large Tool Storage Capacity

As a standard item, ATC has a useful function to change tool holders, and various attachments such as Right Angular Attachment, Universal Angular Attachment and Grinding Attachment.

Number of Tool Pots

- NT-Series (12pots)
- VTC-Series (12pots for 6 milling + 6 turning)
- Option : 16/24/30/36 pots



Splash Guard (Compact models)



Hinge Type Chip Conveyor

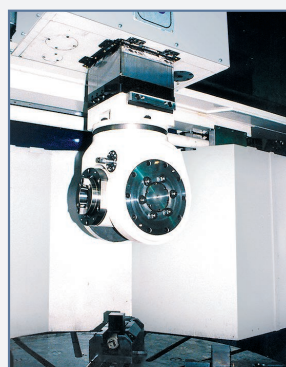


Oil Chiller

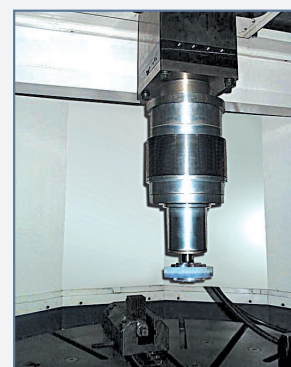
Optional Accessories



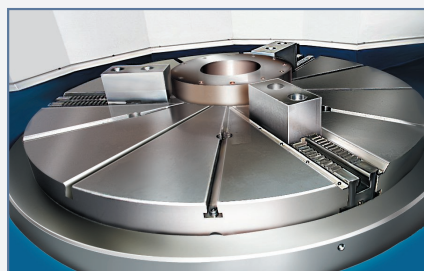
Right Angular Attachment



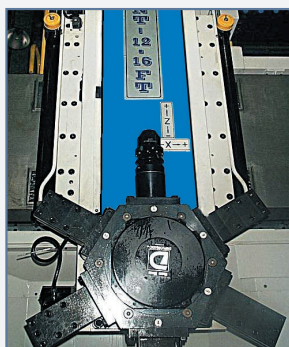
Universal Angular Attachment



Grinding Attachment



Hydraulic Chuck



Turret Head



Tool Length Measuring Device



Auto. Workpiece Measuring Device

CNC Control (Fanuc 18iTB)

Standard Specifications

- Max. controlled axes
(NT, 2 axes / VTC, 3 axes)
- Simultaneously controlled axes (2 axes)
- Least input increment 0.001mm/0.0001"
- Inch/Metric conversion
- Mirror image
- Chamfering on/off
- Backlash compensation
- Pitch error compensation
- MDI operation
- Program number search
- Sequence number search
- Dry run
- Single block
- JOG feed
- Incremental feed (x1, x10, x100, x1000)
- Jog and handle simultaneous mode
- Manual handle feed (1unit/each path)
- Positioning-G00
- Linear interpolation
- Circular interpolation
- Dwell
- Threading, synchronous cutting
- Skip function-G31
- Reference position return-G28
- Reference position return check-G27
- 2nd reference position return
- Rapid traverse rate (Max. 10m/min)
- Rapid traverse override (F0,25,50,100%)
- Feed per minute/Feed per revolution
- Tangential speed constant control
- Cutting feedrate clamp
- Automatic acceleration/deceleration
- Override cancel
- Manual per revolution feed
- Optional block skip (1)
- Max. programmable dimension (8-digit)
- Program number (04-digit)
- Sequence number (N5-digit)
- Input unit 10 time multiply
- Rotary axis roll-over function
- Coordinate system shift
- Direct input of coordinate system shift
- Manual absolute on and off
- G code system (A)
- Sub program call (4 folds nested)
- Canned cycles (G90, G92, G94)
- Custom macro B
- Chamfering/corner R
- Auxiliary Function (M8-digit)
- Spindle speed function (S5-digit)
- Spindle serial output (S5-digit)
- Constant surface speed control
- 1st spindle orientation
- Tool function (T4 digits)
- Tool offset pairs (16 pairs)
- Tool nose radius compensation (G40-G42)
- Tool offset value counter input
- Part program storage length 80m
- Number of registerable programs (63)
- Part program editing
- Background editing
- Status display
- Clock function
- Self-diagnosis function
- Alarm display
- Alarm history display
- Operation history display
- Help function
- Servo setting screen
- Configuration
- Language display English
- Data protection key
- Erase CRT screen display
- External workpiece number search 9999
- Memory card interface
- Reader/puncher interface RS 232C
- External message
- External workpiece number search 15
- Status output signal
- Setting and display unit 10.4" color LCD
- Manual pulse generator

Optional Accessories

- ☐ Increment system 1/10 (0.0001mm, 0.00001")
- ☐ Tool retract and recover
- ☐ Manual linear/circular interpolation
- ☐ Polar coordinate interpolation
- ☐ Continuous threading
- ☐ Variable lead threading
- ☐ Circular threading
- ☐ Polygon turning
- ☐ Rapid traverse bell shaped acceleration/deceleration
- ☐ Linear acceleration/deceleration after cutting feed interpolation
- ☐ Optional block skip (9)
- ☐ Program restart
- ☐ Cylindrical interpolation
- ☐ Helical interpolation
- ☐ Programmable data input
- ☐ Interruption type custom macro
- ☐ Multiple repetitive cycle
- ☐ Workpiece coordinate system
- ☐ Addition of custom macro common variables (#100-#199-#500-#999)
- ☐ Rigid tapping
- ☐ Conversational programming with graphic display
- ☐ Tool offset pairs (64/99 pairs)
- ☐ Tool life management function
- ☐ Automatic tool offset
- ☐ Direct input of tool offset value measured B
- ☐ Part program storage length (160/320/640/1280)
- ☐ Number of registerable programs (125/200/400/1000)
- ☐ Graphic function
- ☐ Fanuc handy file
- ☐ Ethernet Function

NT & VTC Series





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