

Travelling Column  
CNC Vertical  
Machining Centers

**TAI TECH**



MODEL		NX- JUNIOR	NX-600	NX-800	NX-5AX
CNC CONTROLLER			FANUC 0i - M		HEIDENHAIN i-TNC 530
<b>SPINDLE</b>					
Spindle speeds	rpm	8000 (10000)	10000 (12000)	10000 (12000)	15000 (18000)
Spindle nose		BT-40	BT-40	BT-40	BBT-40 (HSK-A63)
Spindle bearing diameter	mm	70	70	70	70
Transmission		Direct	Direct	Direct	Built-in
<b>AXIS TRAVELS</b>					
X Axis	mm	1680	2000 - 3000 - 4000	2000 - 3000 - 4000	3000
Y Axis	mm	500	600	800	800
Z Axis	mm	585	550	700	700
Distance spindle nose to table	mm	200 - 785	150 - 700	180 - 880	100 - 800
<b>TABLE</b>					
Working size	mm	1830 x 500	2500 - 3500 - 4500 x 600	2400 - 3500 - 4600 x 800	3500 x 800 + Ø 630
T Slots		18 x 4 x 100	18 x 5 x 100	18 x 8 x 100	18 x 8 x 100
Max weight on table	kg	1200	1000 - 1500 - 2000	1500 - 2500 - 3500	3000 + 800
<b>FEEDS</b>					
X/Y/Z Rapid feeds	m/min	48/48/48 (60/60/60)	30/30/24	30/30/24	30/30/20
X/Y/Z Cutting feeds	m/min	20	20	20	10
<b>ATC - AUTO TOOL CHANGE</b>					
Capacity	no.	24 + 1	24 (30-40)	24 (30-40)	24 (30-40)
Max tool weight	kg	7	8	8	8
Max tool diameter	mm	80	80	80	80
Max tool diameter w/o adjacent tools	mm	150	127	127	127
ATC Type		Arm	Arm	Arm	Arm
Max tool length	mm	250	300	300	300
Tool change time	sec	3	2,5	2,5	2,5
<b>MOTORS POWER</b>					
Spindle motor	kW	11/7,5	11/7,5	11/7,5	28
X/Y/Z Axis motors	kW	3,5 - 3,5 - 3,5	7,0 - 7,0 - 8,0	7,0 - 7,0 - 8,0	9,6 - 9,6 - 12,2
<b>DIMENSIONS &amp; WEIGHT</b>					
Floor space	m	3,8 x 2,7	6,2 - 7,2 - 8,2 x 3,4	6,2 - 7,2 - 8,2 x 3,6	6,9 x 3,7
Height	m	2,7	3,1	3,3	3,6
Weight	kg	9500	14000 - 18000 - 22000	18000 - 24000 - 30000	25000
<b>GENERAL DATA</b>					
Installed power	KVA	40	45	50	60
Air requirements	Kg/cm <sup>2</sup>	5,5 - 6,5	5,5 - 6,5	5,5 - 6,5	5,5 - 6,5
Cooling tank capacity	litri	350	450	450	450

Bridge Type  
CNC Vertical  
Machining  
Centers



CNC Horizontal  
Machining  
Centers



MODEL		VN-DELTA 6	VN-1060H BR	HN-500	HN-630
<b>SPINDLE</b>					
Spindle speeds (OPT)	rpm	30000 (36000)	12000 (15000)	10000 (12000-15000-20000)	10000 (6000)
Spindle nose		HSK - E40	BBT-40	BBT-40 / HSK-A63	BBT-50 / HSK-A100
Spindle bearing diameter	mm	---	70	70	100
Transmission		Built-in	Direct	Direct (Built-in)	Direct
<b>AXIS</b>					
X Axis travel	mm	600	1020	700	1000
Y Axis travel	mm	550	610	660	850
Z Axis travel	mm	360	500	630	850
<b>TABLE</b>					
Working size	mm	600 x 550	1020 x 510	500 x 500	630 x 630
Table indexing	degrees	---	---	0,001° (DDMotor)	0,001° (DDMotor)
T Slots (Tapped holes HN series)	mm	4 x 14 x 100	5 x 18 x 100	M12 x 1.75 x 100	M16 x 1.75 x 125
Max weight on table	kg	300	1000	600	1200
<b>FEEDS</b>					
X/Y/Z Rapid feeds	m/min	30/30/24	30/30/24	60/48/60	60/60/60
X/Y/Z Cutting feeds	m/min	20	12	24	24
Ballscrew diameters	mm	---	45	45	50
Guideways		Linear Roller guideways	Linear Roller guideways	Linear Roller guideways	Linear Roller guideways
<b>ATC - AUTO TOOL CHANGE</b>					
Capacity	no.	20	24 (32)	60 (90-120-180-240-330)	60 (90-120-180-240-330)
Max tool weight	kg	7	7	8	20
Max tool diameter	mm	40	80	80	118
Max tool diameter w/o adjacent tools	mm	110	150	160	236
ATC System		Armless	Arm Type	Arm Type	Arm Type
Max tool length	mm	150	300	300	400
<b>CNC Controller</b>					
CNC Type		FANUC 0i-M	FANUC 31i-M	FANUC 0i-M	FANUC 31i-M
High Speed Machining		AICC	AI CONTOUR II	AICC	AI CONTOUR II
Data server		---	128 MB	---	128 MB
<b>MOTORS POWER</b>					
Spindle motor	kW	15/10	15/11	15/11 (18,5 / 15)	26/22 (37/30)
X/Y/Z Axis motor	kW	2,0 - 2,0 - 3,0	3,0 - 3,0 - 4,0	4,0 - 4,0 - 7,0	4,0 - 4,0 - 7,0
<b>GENERAL DATA</b>					
Air requirements	kg/cm <sup>2</sup>	5,5	5,5	5,5	5,5
Weight	kg	4500	7500	13000	17000
Dimensions (LxWxH)	m	2,5 x 2,0 x 2,2	3,0 x 2,2 x 3,0	3,9 x 4,2 x 2,8	4,0 x 5,0 x 3,5

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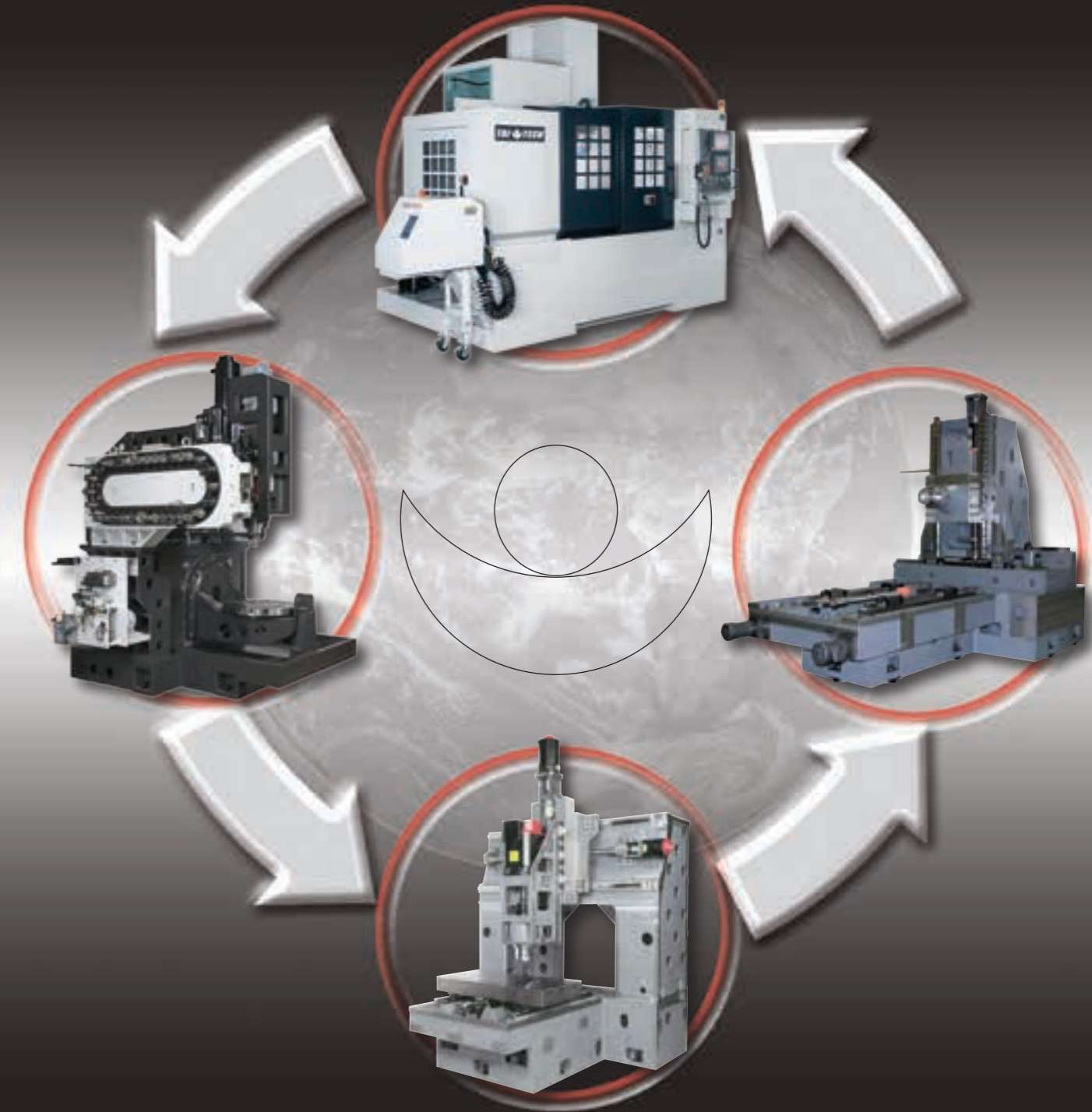
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**TECHNOLOGY and  
AUTOMATION from  
ITALY** 



**TAI TECH**

# TAI TECH

## Drilling & Tapping Centers



MODEL		TV-5A	TV-5D	TV-6A	TV-6D	TV-7A	TV-7D
CNC CONTROLLER		FANUC Oi-M		(MITSUBISHI M-70)			
<b>AXIS TRAVELS</b>							
X Axis	mm	510		600		700	
Y Axis	mm	400		400		400	
Z Axis	mm	400	500	400	500	400	500
Distance spindle nose to table	mm	150 - 550	150 - 650	150 - 550	150 - 650	150 - 550	150 - 650
<b>TABLE</b>							
Working size	mm	600 x 420		700 x 420		850 x 420	
Max weight on table	kg	250		250		250	
T Slots	mm	14 x 100 x 4		14 x 100 x 4		14 x 100 x 4	
<b>SPINDLE</b>							
Spindle speeds	rpm	8000 (10000 - 12000 - 15000)					
Tapping speeds	rpm	3000		3000		3000	
Spindle nose	mm	7/24 N° 40		7/24 N° 40		7/24 N° 40	
Transmission		Direct		Direct		Direct	
<b>FEEDS</b>							
X/Y/Z Rapid feeds	m/min	48/48/48		48/48/48		48/48/48	
X/Y/Z Cutting feeds	m/min	10		10		10	
<b>ATC - AUTO TOOL CHANGE</b>							
Tool type (OPT)		BT-40 (BT-30)		BT-40 (BT-30)		BT-40 (BT-30)	
ATC Type		Armless	Arm type	Armless	Arm type	Armless	Arm type
ATC Capacity		14	24+1	14	24+1	14	24+1
Max tool length	mm	250		250		250	
Max tool diameter	mm	100	63	100	63	100	63
Max tool weight	kg	3	4	3	4	3	4
Tool to tool time	sec	1,8	2,2	1,8	2,2	1,8	2,2
Chip to chip time	sec	2,7	3,1	2,7	3,1	2,7	3,1
<b>MOTORS POWER</b>							
X Axis	kW	1.5		1.5		1.5	
Y Axis	kW	1.5		1.5		1.5	
Z Axis	kW	3.0		3.0		3.0	
Spindle motor	kW	7.5 / 5.5 (11/7,5)		7.5 / 5.5 (11/7,5)		7.5 / 5.5 (11/7,5)	
<b>DIMENSIONS &amp; WEIGHT</b>							
Dimensions (LxWxH)	m	1.65x2.52x2.80	1.90x2.52x2.80	1.65 x 2.52x2.80	1.90x2.52x2.80	1.90x2.52x2.80	2.00x2.52x2.80
Weight	kg	3100	3250	3250	3500	3350	3600

## Vertical CNC Machining Centers



MODEL		VN-8555 S	VN-1155 S	VN-8555	VN-1155	VN-1365	VN-1575	VN-1680
<b>SPINDLE</b>								
Spindle speeds	rpm	12000 (15000)	12000 (15000)	8000 (10000)	10000 6000	8000 6000	8000 6000	6000
Spindle nose		BBT-40	BBT-40	BT-40	BT-40 BT-50	BT-40 BT-50	BT-40 BT-50	BT-50
Spindle bearing Ø	mm	70	70	70	70 90	70 90	70 90	90
Transmission	mm	Direct	Direct	Belt	Belt	Belt	Belt	Gearbox
<b>AXIS TRAVELS</b>								
X Axis	mm	850	1100	850	1100	1300	1500	1600
Y Axis	mm	550	550	550	550	650	750	850
Z Axis	mm	550 (760)	550 (760)	550 (760)	550 (760)	550 (760)	550 (760)	850
Distance spindle nose to table	mm	150-700 (910)	150-700 (910)	150-700 (910)	150-700 (910)	150-700 (910)	150-700 (910)	200-1050
<b>TABLE</b>								
Working size	mm	1100 x 600	1200 x 600	1100 x 600	1200 x 600	1500 x 650	1600 x 750	1700 x 880
T Slots	mm	5x18x100	5x18x100	5x18x100	5x18x100	5x18x100	5x18x100	7x18x100
Max weight on table	kg	1000	1200	1000	1200	1500	1500	2000
<b>FEEDS</b>								
X/Y/Z Rapid feeds	m/min	42/42/30	42/42/30	36/36/30	36/36/30	36/36/30	36/36/30	15/15/15
X/Y/Z Cutting feeds	m/min	12	12	12	12	12	12	12
Ballscrews diameter	mm	45	45	45	45	45	45	50
Guideways		Linear Roller guideways			Linear ball guideways			Boxways
<b>ATC - AUTO TOOL CHANGE</b>								
Capacity	no.	24 (32)	24 (32)	24 (32)	24 (32)	24 (32)	24 (32)	24 (32)
Max tool weight	kg	7	7	7	7 15	7 15	7 15	15
Max tool Ø	mm	80	80	80	80 110	80 110	80 110	110
Max tool Ø w/o adjacent tools	mm	150	150	150	150 200	150 200	150 200	200
ATC Type		Arm type	Arm type	Arm type	Arm type	Arm type	Arm type	Arm type
Max tool length	mm	300	300	300	300	300	300	300
<b>CNC Controller</b>								
CNC Type		FANUC 31i-M / HEIDENHAIN i-TNC 530			FANUC Oi-M / HEIDENHAIN i-TNC 620			
High Speed		AI CONTOUR II	AI CONTOUR II	AICC	AICC	AICC	AICC	AICC
Data server		128 MB	128 MB	-	-	-	-	-
<b>MOTORS POWER</b>								
Spindle motor	kW	7,5/11	7,5/11	7,5/11 (15/18,5)	7,5/11 (15/18,5)	7,5/11 (15/18,5)	15/18,5	15/18,5 (22/26)
X/Y/Z Axis motors	kW	3,0 - 3,0 - 4,0	3,0 - 3,0 - 4,0	3,0 - 3,0 - 7,0	3,0 - 3,0 - 7,0	4,0 - 4,0 - 7,0	4,0 - 4,0 - 7,0	4,0 - 4,0 - 7,0
Cooling pump (50Hz/60Hz)	kW	0,85	0,85	0,85	0,85	0,85	0,85	0,85
<b>GENERAL DATA</b>								
Air requirements	kg/cm2	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Machine weight	kg	7000	7500	7000	7500 8000	9000 9500	10500 11000	15000
Dimensions (LxWxH)	m	2,7 x 2,2 x 3,0	3,0 x 2,0 x 3,0	2,7 x 2,2 x 3,0	3,0 x 2,0 x 3,0	3,3 x 2,7 x 3,0	3,7 x 2,9 x 3,0	4,4 x 3,2 x 3,2

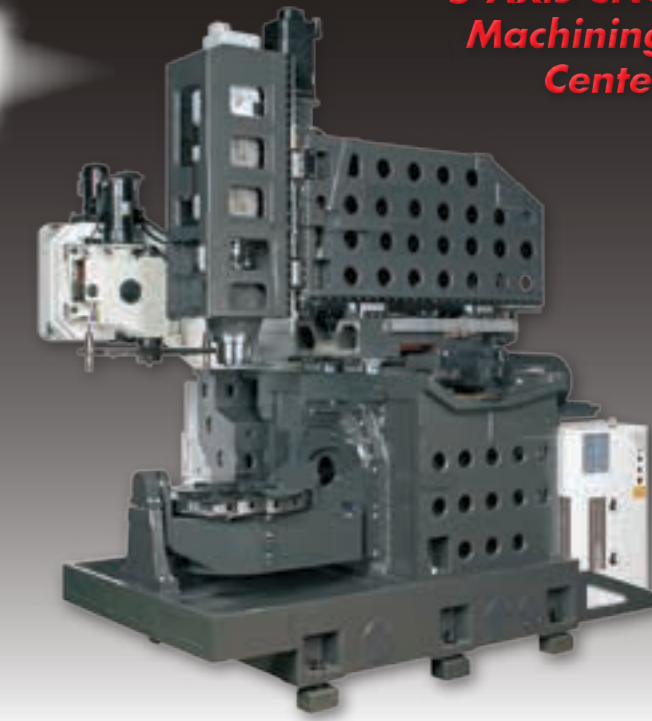
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## APC Rotopallet CNC Vertical Machining Centers

MODEL		VN-64 RP	VN-86 RP	VN-107 RP
<b>CNC CONTROLLER</b>				
		FANUC Oi-M		
<b>SPINDLE</b>				
Spindle speeds	rpm	10000 (12000-15000)		
Spindle nose	mm	BT-40	BT-40	BT-40
Spindle bearing Ø	mm	70	70	70
Transmission		Direct	Direct	Direct
<b>AXIS TRAVELS</b>				
X Axis	mm	610	800	1000
Y Axis	mm	410	610	700
Z Axis	mm	570	600	700
Distance spindle nose to table	mm	200 - 770	150 - 750	165 - 865
<b>APC - TABLE</b>				
Working size	mm	650 x 410 x 2	900 x 610 x 2	1200 x 700 x 2
T Slots	mm	18 x 4 x 100	18 x 4 x 125	18 x 4 x 150
Max weight on table	kg	250 x 2	400 x 2	450 x 2
Pallet change time	sec	6.0	9.0	12.0
<b>FEEDS</b>				
X/Y/Z Rapid feeds	m/min	36/36/30	36/36/30	36/36/30
X/Y/Z Cutting feeds	m/min	20	20	20
<b>ATC - AUTO TOOL CHANGE</b>				
Capacity	no.	24 (30-40)	24 (30-40)	24 (30-40)
Max tool weight	kg	7	7	7
Max tool Ø	mm	80	80	80
Max tool Ø w/o adjacent tools	mm	127	127	127
ATC Type		Random	Random	Random
Max tool length	mm	300	300	300
Tool change time	sec	2.0	2.0	2.0
<b>MOTORS POWER</b>				
Spindle motor	kW	7.5/5.5	11/7.5	15/11
X/Y/Z Axis motors	kW	3.0 - 3.0 - 3.0	3.0 - 3.0 - 3.0	3.0 - 3.0 - 3.0
<b>DIMENSIONS &amp; WEIGHT</b>				
Floor space	m	2.4 x 3.2	2.7 x 4.3	2.9 x 4.5
Height	m	2.8	3.2	3.3
Weight	kg	7000	11000	15000
<b>GENERAL DATA</b>				
Installed power	KVA	25	35	45
Air requirements	kg/cm²	5.5 - 6.5	5.5 - 6.5	5.5 - 6.5
Cooling tank capacity	litri	270	400	450 (225x2)

## 5 Axis CNC Machining Center



MODEL		FLEX-U 620
<b>SPINDLE</b>		
Spindle speeds	rpm	12000 (20000)
Spindle nose		BBT-40 (HSK-A63)
Spindle bearing diameter	mm	70
Transmission	mm	Direct (Built-in)
<b>AXIS TRAVELS</b>		
X Axis	mm	620
Y Axis	mm	520
Z Axis	mm	460
A Axis	degrees	-50° / +110°
C Axis	degrees	360.000°
Max speed rotary C axis	rpm	25
Max speed titling A axis	rpm	25
Max weight on table at 0°	kg	300
Max weight on table at 90°	kg	300
Distance spindle nose to table	mm	150-610
<b>TABLE</b>		
Working size (diameter)	mm	650
Max working diameter	mm	520
Max workpiece dimensions	mm	520 x 330
T Slots	mm	5 x 18 x 100
<b>FEEDS</b>		
X/Y/Z Rapid feeds	m/min	36/36/36
X/Y/Z Cutting feeds	mm/min	20000
Ballscrews diameter	mm	45
Guide type		Rollers
<b>ATC - AUTO TOOL CHANGE</b>		
Tools number	pcs	32 (40)
Max tool weight	kg	7
Max tool diameter	mm	76
Max tool diameter w/o adjacent tools	mm	127
ATC type		Arm
Max tool length	mm	250
<b>CNC Controller</b>		
CNC Type		HEIDENHAIN i-TNC 530
<b>MOTORS POWER</b>		
Spindle motor	kW	12.5/10
X/Y/Z Axis	kW	7.2 / 5.0 / 7.2
Cooling pump	kW	0.75 + 1.27
<b>GENERAL DATA</b>		
Air requirements	kg/cm²	5.5
Weight	kg	8.800
Dimensions (LxWxH)	m	2.3 x 2.6 x 3.0