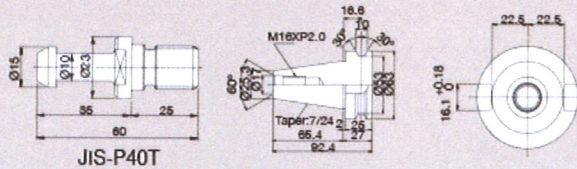


Machine Specification

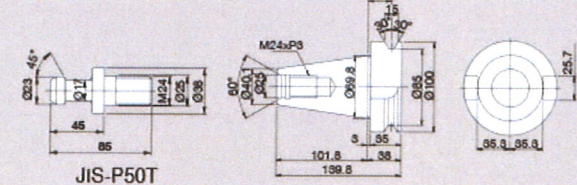
ITEM	Units	Vcenter-55	Vcenter-70	Vcenter-85A/B/C	
Travel	X axis travel	mm	550	700	850
	Y axis travel	mm	460 (430 for APC)	480 (430 for APC)	520 (opt. 600)
	Z axis travel	mm	460	510	560
Distance	Spindle center to column	mm	544.5	544.5	600
	Spindle nose to table surface	mm	150 ~ 610	150 ~ 660	150 ~ 710
Table	Table work area	mm	800 x 460	800 x 460	1100 x 510
	Dimension of T-slot	mm	4 x 18 x 100	4 x 18 x 100	5 x 18 x 100
	Max. table load	kg	300	500	750 (VC-85A/C) 1000 (VC-85B)
Spindle	Spindle taper		BT-40	BT-40	BT-40
	Spindle motor-cont / 30 min	kW(AC)	5.5 / 7.5	5.5 / 7.5	5.5 / 7.5
	Spindle speed	rpm	8000	8000	8000 (VC-85A) 6000 (VC-85B/C)
Feed rate	Rapid feed rate-X/Y/Z	m/min	36 / 36 / 24 (opt. 42/42/30)	36 / 36 / 24 (opt. 42/42/30)	36 / 36 / 20 (VC-85A) 20 / 20 / 18 (VC-85B) 36 / 36 / 18 (VC-85C)
	Axis feed motor-X/Y/Z	kW	3 / 3 / 3	3 / 3 / 3	3 / 3 / 3
	Cutting feedrate by table	m/min	18	18	18
	X/Y ballscrew (dia. x pitch)	mm	40 x P16	40 x P16	40 x P12
	Z ballscrew	mm	40 x P12	40 x P12	40 x P10
Tools	Max. tool length	mm	250	250	300
	Max. tool weight	kg	8	8	8
	Magazine capacity		24 (opt. 40)	24 (opt. 40)	24 (opt. 32, 40)
	Max. tool diameter (without adjacent tools)	mm	80 (125)	80 (125)	80 (125)
	Tool exchanging time	sec.	1.5 (T-T), 4.8 (C-C)	1.5 (T-T), 4.9 (C-C)	1.5 (T-T), 5.9 (C-C)
	Pull stud angle	deg.	90 (opt. 45)	90 (opt. 45)	90 (opt. 45)
	Tool selection method		Random	Random	Random
Machine	Power requirement (excl. CTS)	kVA	23	23	23
	Min./Max. air pressure	kg/cm ²	5.5 / 6.5	5.5 / 6.5	5.5 / 6.5
	Coolant tank capacity	L	225	240	280
	Std. NC controller		FANUC 0i-M	FANUC 0i-M	FANUC 0i-M
	Floor space requirement	mm	1955 x 2350	2123 x 2350	2450 x 2400
	Max. Machine height	mm	2500	2550	2640
	Net weight	kg	4600	4700	5950

Tool shank (BT-40)



JIS-P40T

Tool shank (BT-50)



JIS-P50T

Standard accessories

- Fully enclosed splash guarding
- Hand tools and tool box
- T nuts for table slot
- Coolant flush on bottom guarding (except Vcenter-145)
- Built-in work light
- Spindle oil cooler (only for Vcenter-110/130/145/165)
- Auto power off system
- Leveling blocks
- Program end light
- Rigid tapping
- Alarm lamp
- Remote MPG
- Air conditioner for electrical cabinet
- Screw chip removers (for Vcenter-165)
- Air blow (by M-code control)
- Fanuc e-book (CD-ROM)

Vcenter-102A/B/C	Vcenter-110	Vcenter-130	Vcenter-145	Vcenter-165
1020	1100	1300	1450	1650
520 (opt. 600)	600	600	700	850
560	560	610	700	900
600	600	600	725	872
150 ~ 710	180 ~ 740	155 ~ 765	200 ~ 900	200 ~ 1100
1100 x 510	1400 x 550	1400 x 550	1650 x 650	1700 x 800
5 x 18 x 100	5 x 18 x 100	5 x 18 x 100	6 x 18 x 100	5 x 22 x 150
750 (VC-102A/C) 1000 (VC-102B)	800	800	2200	2500
BT-40	BT-40	BT-40	BT-50	BBT-50
7.5 / 9.0	7.5 / 9.0	7.5 / 9.0	11 / 15	15 / 18.5
8000 (VC-102A) 6000 (VC-102B/C)	6000	6000	6000	6000
36 / 36 / 20 (VC-102A) 20 / 20 / 18 (VC-102B) 36 / 36 / 18 (VC-102C)	24 / 24 / 18	24 / 24 / 18	18 / 18 / 15	20 / 20 / 18
3 / 3 / 3	3 / 3 / 3	3 / 3 / 3	4 / 4 / 4	4 / 4 / 7
18	18	18	18	18
40 x P12	40 x P12	40 x P12	50 x P10	50 x P10
40 x P10	40 x P10	40 x P10	50 x P10	50 x P10
300	300	300	400	400
8	8	8	15	15
24 (opt. 32, 40)	24 (opt. 32, 40)	24 (opt. 32, 40)	24 (opt. 32, 40)	24 (opt. 40)
80 (125)	80 (125)	80 (125)	110 (200)	127 (250)
1.5 (T-T), 6.2 (C-C)	1.5 (T-T), 6.4 (C-C)	1.5 (T-T), 6.8 (C-C)	4.9 (T-T), 11 (C-C)	4.6 (T-T), 10.9 (C-C)
90 (opt. 45)	90 (opt. 45)	90 (opt. 45)	45	45
Random	Random	Random	Random	Random
23	23	23	30	35
5.5 / 6.5	5.5 / 6.5	5.5 / 6.5	5.5 / 6.5	5.5 ~ 6.5
280	350 (opt. 2 x 240)	350 (opt. 2 x 250)	600 (2 x 300)	760
FANUC 0i-M	FANUC 0i-M	FANUC 0i-M	FANUC 0i-M	FANUC 0i-M (10.4')
2750 x 2400	3200 x 2625	3500 x 2625	3800 x 3765	4276 x 3370
2640	2895	2920	3029	3617
6150	7100	7800	11780	16420

Optional accessories

- Chip conveyor with cart
(2 chip conveyors for Vcenter-145)
(Please specify when machining Aluminum or Cast Iron)
- Spindle oil cooler
(for Vcenter-55/70/85/102)
- 2-step gearbox
(max. spindle speed 6000 rpm)
- High powered spindle motor
- Oil skimmer
- Oil hole coolant
- Coolant through spindle
- Air blow system
- Linear scale feedback
- Auto tool length measurement
- Electrical counterbalance
- Workpiece measurement
- 4th axis rotary table
- Higher column with spacer
- Table shower system
- Semi enclosed splash guarding
(for Vcenter -145 only)
- BT-50 tooling with gearbox
(for Vcenter-85/102/110/130)
- Fanuc manuals

