



**Kawan Lama**<sup>®</sup>  
#1 Commercial & Industrial Supply Company



**PERFORMANCE  
BEYOND EXPECTATION**





DESCRIPTION		FTC-300	FTC-350	FTC-350L	FTC-350XL	FTC-350LY
Swing Over Bed	mm	Ø 550	Ø 600	Ø 600	Ø 600	Ø 600
Max. Turning Diameter	mm	Ø 300	Ø 350	Ø 350	Ø 350	Ø 350
Max. Turning Length	mm	320	340	660	1,000	585
Hydraulic Power Chuck Diameter	inch	Ø 169 (6")	Ø 210 (8")	Ø 210(8")	Ø 210(8")	Ø 210(8")
Swing Over Saddle	mm	Ø 260	Ø 400	Ø 400	Ø 400	Ø 400
X-Axis Travel	mm	150 + 20	175 + 25	175 + 25	175 + 25	175 + 25
Y-Axis Travel	mm	-	-	-	-	80 (±40)
Z-Axis Travel	mm	350	380	700	1,040	625
Rapid Traverse X-Axis	m/min	24	30	30	30	24
Rapid Traverse Y-Axis	m/min	-	-	-	-	12
Rapid Traverse Z-Axis	m/min	24	30	30	30	24
Spindle Nose		A2-5	A2-6	A2-6	A2-6	A2-6
Spindle Speed	rpm	6,000	45 - 4,500	45 - 4,500	45 - 4,500	45 - 4,500
Spindle Bore Diameter	mm	Ø 62	Ø 52	Ø 62	Ø 62	Ø 62
Bar Capacity	mm	Ø 52	Ø 52	Ø 52	Ø 52	Ø 52
Spindle Bearing Diameter	mm	Ø 90	Ø 100	Ø 100	Ø 100	Ø 100
Spindle Taper	MT	MT-6	1:20	1:20	1:20	1:20
No. of Tools	set	10	8(12)	8(12)	8(12)	VDI30,12
Standard O.D. Tool Size	mm	□ 20	□ 25	□ 25	□ 25	□ 20
I. D. Tool Size (Max)	mm	Ø 25	Ø 40	Ø 40	Ø 40	Ø 32
Tool Change Time	sec	0.3	0.3	0.3	0.3	0.3
Tailstock Quill Diameter	mm	Ø 50	Ø 70	Ø 70	Ø 70	Ø 70
Tailstock Quill Stroke	mm	80	90	90	90	90
Tailstock Quill Taper	mm	MT-3	MT-4	MT-4	MT-4	MT-4
Tailstock Movement Method		Manual	Manual	Manual	Manual	Manual
Tailstock Quill Movement Method		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Spindle Motor (Cont / 30)	kW	7.5 / 11	15 / 18.5	15 / 18.5	15 / 18.5	75 / 9.5
X / Y / Z Servo Motor	kW	1.2(x) / 1.2(z)	3(x) / 3(z)	3(x) / 3(z)	3(x) / 3(z)	3.0 / 1.6 / 3.0
Coolant Tank Capacity	ℓ	100	90	110	135	110
Machine Width	mm	2,500	2,564	2,880	3,496	2,880
Machine Depth	mm	1,530	1,580	1,580	1,665	1,800
Machine Height	mm	1,650	1,944	1,944	1,869	2,041
Machine Weight	kg	3,100	3,500	4,000	4,500	4,500

#### STANDARD ACCESSORIES

- 3-Jaw power chuck
- Manual tailstock
- Programmable tailstock (FTC-640/640L)
- Hydraulic quill movement
- Heat exchanger
- Face cutting holder ( 2 set)
- Boring tool socket (4 set)
- Boring bar holder (1set)
- Morse taper MT3 socket (1 set) (MT5 for FTC-640)
- Hard jaw (1 set)
- Soft jaw (3 set)
- Chip conveyor (FTC-640/640)
- Fanuc OI-T

#### OPTIONAL ACCESSORIES

- Extra hard/soft jaw
- Automatic door
- Parts catcher
- Tool setter
- Programmable tailstock
- Chip conveyor/chip bucket
- Bar feeder
- Power tooling + C axis
- Quill movement controlled by M function
- U drill holder, socket
- Collet chuck
- Oil mist collector
- Air blower
- Coolant gun
- Live tool holder

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DESCRIPTION		FTC-350SLY	FTC-450	FTC-450MC	FTC-640	FTC-640L
Swing Over Bed	mm	Ø 650	Ø 670	Ø 670	Ø 750	Ø 750
Max. Turning Diameter	mm	Ø 350	Ø 450	Ø 260	Ø 640	Ø 640
Max. Turning Length	mm	515	651	600	808	1,440
Hydraulic Power Chuck Diameter	inch	Ø 210 sub: Ø 169	10"	10"	15"	15"
Swing Over Saddle	mm	Ø 450	Ø 450	Ø 450	Ø 550	Ø 550
X-Axis Travel	mm	175 + 25	225 + 2	205 + 2	320 + 25	320 + 25
Y-Axis Travel	mm	80 (±40)	-	-	-	-
Z-Axis Travel	mm	555	700	640	870	1,500
Rapid Traverse X-Axis	m/min	24	30	30	20	20
Rapid Traverse Y-Axis	m/min	12	-	-	-	-
Rapid Traverse Z-Axis	m/min	24	30	30	20	20
Spindle Nose		A2-6 sub: A2-5	A2-8	A2-8	A2-11	A2-11
Spindle Speed	rpm	45 - 4,500 sub: 6,000	35 ~ 3,500	35 ~ 3,500	2,000 (2.step)	2,000 (2.step)
Spindle Bore Diameter	mm	Ø 62 sub: Ø 56	Ø 88	Ø 88	Ø 131	Ø 131
Bar Capacity	mm	Ø 52 sub: Ø 45	Ø 78	Ø 78	Ø 117.5	Ø 117.5
Spindle Bearing Diameter	mm	Ø 100 sub: Ø 90	Ø 130	Ø 130	Ø 180	Ø 180
Spindle Taper	MT	1:20 sub: MT#6	1:20	1:20	1:20	1:20
No. of Tools	set	VDI30, 12	8	12	12	12
Standard O.D. Tool Size	mm	□ 20	□ 25	□ 25	□ 32	□ 32
I. D. Tool Size (Max)	mm	Ø 32	Ø 40	Ø 40	Ø 50	Ø 50
Tool Change Time	sec	0.3	0.3	0.24	0.3	0.3
Tailstock Quill Diameter	mm	-	Ø 100	Ø 100	Ø 100	Ø 100
Tailstock Quill Stroke	mm	-	100	100	100	100
Tailstock Quill Taper	mm	-	MT-4	MT-4	MT-5	MT-5
Tailstock Movement Method		-	Manual	Manual	Programmable	Programmable
Tailstock Quill Movement Method		-	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Spindle Motor (Cont / 30)	kW	75 / 9 sub: 5.5 / 7.5	18.5 / 22	18.5 / 22	22 / 26	22 / 26
X / Y / Z Servo Motor	kW	3.0 / 1.6 / 3.0 / 1.6(E)	3(X) / 3 (E)	3(X) / 3 (E)	4(X) / 4 (Z)	4(X) / 4 (Z)
Coolant Tank Capacity	ℓ	180	185	140	200	350
Machine Width	mm	3,190	3,350	3,350	4,500	5,400
Machine Depth	mm	2,010	1,770	1,770	2,125	2,125
Machine Height	mm	1,967	2,220	2,220	2,415	2,415
Machine Weight	kg	5,000	5,000	5,000	9,550	10,500

#### STANDARD ACCESSORIES

- 3-Jaw power chuck
- Manual tailstock
- Programmable tailstock (FTC-640/640L)
- Hydraulic quill movement
- Heat exchanger
- Face cutting holder ( 2 set)
- Boring tool socket (4 set)
- Boring bar holder (1set)
- Morse taper MT3 socket (1 set)  
(MT5 for FTC-640)
- Hard jaw (1 set)
- Soft jaw (3 set)
- Chip conveyor (FTC-640/640)
- Fanuc OI-T

#### OPTIONAL ACCESSORIES

- Extra hard/soft jaw
- Automatic door
- Parts catcher
- Tool setter
- Programmable tailstock
- Chip conveyor/chip bucket
- Bar feeder
- Power tooling + C axis
- Quill movement controlled by M function
- U drill holder, socket
- Collet chuck
- Oil mist collector
- Air blower
- Coolant gun
- Live tool holder

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DESCRIPTION		FTC-10	FTC-20	FTC-20L	FTC-30
Swing Over Bed	mm	Ø 520	Ø 560	Ø 600	Ø 580
Standard Turning Diameter	mm	Ø 180	Ø 250	Ø 250	Ø 310
Max. Turning Diameter	mm	Ø 240	Ø 350	Ø 350	Ø 450
Max. Turning Length	mm	255	343	613	621
Hydraulic Power Chuck Diameter	inch	6" (8")	8" (10")	8" (10")	10" (12")
Swing Over Saddle	mm	Ø 260	Ø 350	Ø 400	Ø 450
X-Axis Travel	mm	120 + 20	175 + 25	175 + 25	225 + 25
Z-Axis Travel	mm	290	380	650	670
Rapid Traverse X/Z Axis	m/min	24 / 24	24 / 24	24 / 24	20/20
Spindle Nose		A2-5	A2-6	A2-6	A2-8
Spindle Speed	rpm	6,000	4,500	4,500	3,500
Spindle Bore Diameter	mm	Ø 56	Ø 62	Ø 62	Ø 88
Bar Capacity	mm	Ø 45	Ø 52	Ø 52	Ø 75
Spindle Bearing Diameter	mm	Ø 90	Ø 100	Ø 100	Ø 130
Spindle Taper	MT	MT#6	1 : 20	1 : 20	1 : 20
No. of Tools	set	10T	8T	8T	8T
Standard O.D. Tool Size	mm	20	25	25	25
I. D. Tool Size (Max)	mm	Ø 25	Ø 40	Ø 40	Ø 40
Tailstock Quill Diameter	mm	Ø 50	Ø 65	Ø 65	Ø 100
Tailstock Quill Stroke	mm	80	90	90	100
Tailstock Quill Taper	mm	MT-3	MT-4	MT-4	MT-4
Spindle Motor (Cont / 30)	kW	11 / 7.5	18.5 / 15	18.5 / 15	22 / 18.5
Servo Motor	kW	X=1.2 / Z=1.2	X=3.0 / Z=3.0	X=3.0 / Z=3.0	X=3.0 / Z=3.0
Coolant Tank Capacity	ℓ	95	100	250	95
Floor Space	mm	1,795 x 1,317	2,530 x 1,535	2,750 x 1,542	2,920 x 1,685
Machine Weight	kg	2,500	3,550	3,850	5,080

**STANDARD ACCESSORIES**

- Boring tool holder
- Boring bar socket
- Coolant system
- Face cutting holder
- Hard jaws
- Heat exchanger
- Hydraulic system
- Manual tailstock
- Morse taper MT3 socket
- Soft jaws
- Through-hole hydraulic chuck

**OPTIONAL ACCESSORIES**

- Air blaster
- Automatic door
- Bar feeder
- Bar feeder interface (LNS system)
- Chip conveyor/chip bucket
- Extra hard/soft jaws
- Gantry loader
- High-pressure coolant pump
- Parts catcher
- Programmable tailstock (not available in FTC-10)
- Tool setter
- Transformer
- Two-stage clamping force by M function
- VDI tool holders
- VDI turret
- Workpiece supplier

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DESCRIPTION		VFP-800(A)	VFP-1000(A)
X-Axis Travel	mm	820	1020
Y-Axis Travel	mm	520	520
Z-Axis Travel	mm	505	505
Spindle Nose to Table Center	mm	100 - 605	80 - 585
Spindle Center to Column Surface	mm	560	560
Table Dimension	mm	920	920
T-Slots	mm	300 - 820	300 - 820
Max. Loading Weight	kg	950 x 520	1150 x 520
Spindle Speed	rpm	800	800
Spindle Taper		18 x 5 x 100	18 x 5 x 100
Spindle Diameter	mm	10000	10000
Spindle Motor	kW	7 / 24 taper NO. 40	7 / 24 taper NO. 40
Rapid Traverse (X/Y/Z- Axis)	m/min	Ø 70	Ø 70
Cutting Feedrate	m/min	7.5 / 11	7.5 / 11
Tool Changing Time (Tool to Tool) Arm Type	sec.	36 / 36 / 30	36 / 36 / 30
Tool Changing Time (Tool to Tool) Carrousel Type	sec.	24	24
Tool Changer		P - 40T (45°)	P - 40T (45°)
No. of Tool		8	8
Pull Stud		300	300
Max. Tool Weight	kg	Ø 80	Ø 80
Max. Tool Length	mm	Ø 150	Ø 150
Max. Tool Diameter	mm	1.7 sec	1.7 sec
Max. Tool Diameter (No Adjacent Tool)	mm	4 sec	4 sec
Floor Space	mm	2.905 x 2.300	3040 x 2300
Machine Weight	kg	5,800	6,300
Max. Machine Height	mm	2,800	2,800
Power Capacity	kVa	25	25
Air Source	bar	6 - 8	6 - 8

**STANDARD ACCESSORIES**

- Heat exchanger
- 3 axis pretensioned ballscrews
- Clamping/unclamping device
- Automatic lubrication system
- Fully enclosed splash guard
- Dust-proof electrical cabinet
- Spindle air sealing
- 3-color signal light
- Rigid tapping
- Leveling blocks and plates
- Spindle coolant nozzle
- Operation and maintenance manual

**OPTIONAL ACCESSORIES**

- 3 axis linear scales
- Coolant through spindle
- Workpiece measurement system
- Automatic tool length measurement and breakage detection
- Chip conveyor
- Chip screw
- Spindle oil cooler
- Flushing system + coolant gun
- Front flushing
- Top roof
- 4th-axis preparation or rotary table
- High pressure pump
- Auto power off
- 12,000 rpm belt type spindle BT - 40
- 10,000 rpm DDS spindle
- 12,000 / 15,000 rpm DDS spindle

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## STANDARD ACCESSORIES

- Heat exchanger
- 3 axis pretensioned ballscrews
- Clamping/unclamping device
- Automatic lubrication system
- Fully enclosed splash guard
- Dust-proof electrical cabinet
- Spindle air sealing
- 3-color signal light (VMP-23/30 opt)
- Rigid tapping
- Leveling blocks and plates
- Spindle coolant nozzle
- Operation and maintenance manual

## OPTIONAL ACCESSORIES

- 3 axis linear scales
- Coolant trough spindle
- Workpiece measurement system
- Automatic tool length measurement and brakage detection
- Chip conveyor
- Chip screw
- Spindle oil cooler
- Flushing system + coolant gun
- Front flushing (VMP 45/50)
- Top roof
- 4th axis preparation or rotary table
- Manual pallet changer (except VMP-23/30)
- Deep hole adaptor
- High pressure pump
- Auto power off
- Rear cover
- 12,000 rpm belt type spindle BT-40
- 10,000rpm DDS spindle
- 12,000/15,000 rpm DDS spindle (except VMP-23/30)
- ZF gear box (except VMP-23/30)

DESCRIPTION		VMP-23(A)	VMP-30(A)	VMP-32(A)	VMP-40(A)	VMP-45S(A)	VMP-45(A)	VMP-50(A)
X-Axis Travel	mm	580	760	820	1,020	1,100	1,100	1,300
Y-Axis Travel	mm	420	420	520	520	700	610	610
Z-Axis Travel	mm	510	510	505	505	600	600	600
Spindle Nose to Table Surface	mm	80 - 590	80 - 590	100 - 605	80 - 585	200 - 800	135 - 735	120 - 720
Spindle Center to Column Surface	mm	455	455	560	560	770	660	660
Table Surface to Floor	mm	820	820	920	940	950	960	975
Table Center to Column Surface	mm	245 - 665	245 - 665	300 - 820	300 - 820	420 - 1,120	355 - 965	355 - 965
Table Dimension	mm	420 x 650	420 x 890	520 x 950	520 x 1,150	1,300 x 700	1,200 x 600	1,420 x 600
Max. Load	kg	300	300	800	800	1,000	1,500	1,500
T-Slots	mm	14 x 4 x 100	14 x 4 x 100	18 x 5 x 100	18 x 5 x 100	18 x 5 x 125	18 x 5 x 100	18 x 5 x 100
Spindle Speed	rpm	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Spindle Taper		7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40
Spindle Power	kW	7.5 / 11	7.5 / 11	7.5 / 11	7.5 / 11	6 / 11	7.5 / 11	7.5 / 11
Rapid Traverse (X - Axis)	m/min	36	36	40	40	24	36	36
Rapid Traverse (Y - Axis)	m/min	36	36	40	40	24	36	36
Rapid Traverse (Z - Axis)	m/min	36	36	30	30	15	24	24
Tool Changing Time (Tool to Tool)	Carrousel	7 sec / 60Hz,	7 sec / 60Hz,	7 sec / 60Hz,	7 sec / 60Hz,	7 sec (NO.40)	7 sec / 60Hz,	7 sec / 60Hz,
	Type	7.1 sec / 50Hz	7.1 sec / 50Hz	7.1 sec / 50Hz	7.1 sec / 50Hz		7.1 sec / 50Hz	7.1 sec / 50Hz
	Arm	1.7 sec / 60Hz,	1.7 sec / 60Hz,	1.7 sec / 60Hz, 2.0	1.7 sec / 60Hz, 2.0	1.7 sec (NO.40)	1.7 sec / 60Hz, 2.0	1.7 sec / 60Hz, 2.0
Tool Changer	Type	2.0 sec / 50Hz	2.0 sec / 50Hz	sec / 50Hz	sec / 50Hz		sec / 50Hz	sec / 50Hz
		Carrousel (Arm)	Carrousel (Arm)	Carrousel (Arm)	Carrousel (Arm)	Carrousel (Arm)	Carrousel (Arm)	Carrousel (Arm)
No. of Tool		18 (20)	18 (20)	22 (24)	22 (24)	22 (24)	24	24
Pull Stud		P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)
Max. Tool Weight	kg	7	7	8	8	7	8	8
Max. Tool Length	mm	250	250	300	300	250	300	300
Max. Tool Diameter	mm	Ø 80	Ø 80	Ø 80	Ø 80	Ø 80	Ø 80	Ø 80
Max. Tool Diameter (No Adjacent Tool)	mm	Ø 130	Ø 130	Ø 150	Ø 150	Ø 150	Ø 150	Ø 150
Floor Space	mm	1,900 x 2,255	2,100 x 2,255	2,905 x 2,185	3,040 x 2,185	3,440 x 2,630	3,180 x 2,750	3,550 x 2,750
Machine Weight	kg	3,000	3,300	5,800	6,300	9,000	6,800	7,300
Max. Machine Height	mm	2,370	2,370	2,800	2,800	2,925	2,900	2,900
Power Capacity	kVa	20	20	25	25	25	25	25
Air Source	bar	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8	6 - 8

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### STANDARD ACCESSORIES

- 3-color signal light
- 3-axis pro tensioned ballscrew
- Automatic lubrication system
- Belt type transmission
- Dust-proof electrical cabinet
- Enclosed splash guard
- Heat exchanger
- Leveling bolts and plates
- Operation and maintenance manual
- Rigid tapping
- RS-32 interface
- Spindle air blast
- Spindle air sealing
- Water-oil separator
- Working light

### OPTIONAL ACCESSORIES

- 12,000/15,000 rpm DDS spindle
- 12,000 rpm belt type spindle
- 2-sided chip screw
- 3-axis linear scale
- 30 Nos. ATC
- 4TH or 5TH axis preparation or rotary table package
- Auto tool length measurement and breakage detection
- Air condition
- Coolant gun
- Coolant trough spindle form A
- Chip conveyor or chip screw
- Gearhead transmission
- High pressure coolant pump
- Rear flushing
- Spindle oil cooler
- Transformer
- Workingpiece measurement
- 2F 2-stage gear box

DESCRIPTION		NBP-800(A)	NBP-1000(A)	NBP-1100(A)	NBP-1300(A)
X-Axis Travel	mm	800	1,000	1,100	1,300
Y-Axis Travel	mm	520	610	610	610
Z-Axis Travel	mm	505	600	600	600
Spindle Nose to Table Surface	mm	100 - 605	110 - 710	125 - 725	125 - 725
Spindle Center to Column Surface	mm	560	660	660	660
Table Surface to Floor	mm	920	985	860	860
Table Center to Column Surface	mm	300 - 820	355 - 965	355 - 965	355 - 965
Table Dimension	mm	950 x 520	1,150 x 600	1,300 x 600	1,500 x 600
Max. Loading Weight	kg	500	1,000	1,300	1,300
T-Slots (W x No. x P)	mm	18 x 5 x 100	18 x 5 x 100	18 x 5 x 100	18 x 5 x 100
Spindle Speed	rpm	10,000	10,000	10,000	10,000
Spindle Nose		7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40	7/24 Taper No.40
Spindle Diameter	mm	Ø 70	Ø 70	Ø 70	Ø 70
Spindle Motor	kW	7.5 / 11	7.5 / 11	7.5 / 11 kW (15 / 18.5)	7.5 / 11 kW (15 / 18.5)
Rapid Traverse (X - Axis)	m/min	30	24	24	24
Rapid Traverse (Y - Axis)	m/min	30	24	24	24
Rapid Traverse (Z - Axis)	m/min	20	24	24	24
No. of Tool	set	22(24)	22(24)	22(24)	22(24)
Pull Stud		P-40T (45°)	P-40T (45°)	P-40T (45°)	P-40T (45°)
Max. Tool Weight	kg	8	8	8	8
Max. Tool Length	mm	300	300	300	300
Max. Tool Diameter	mm	Ø 80	Ø 80	Ø 80	Ø 80
Max. Tool Diameter (No Adjacent Tool)	mm	Ø 150	Ø 150	Ø 150	Ø 150
Tool Changing Time (Tool to Tool)	Carrousel Type	7 sec / 60Hz, 7.1 sec / 50Hz			
	Arm Type	1.7 sec / 60Hz, 2.0 sec / 50Hz			
Floor Space	mm	2,530 x 2,185	3,290 x 2,290	3,410 x 2,290	3,620 x 2,290
Machine Weight	kg	5,800	7,000	7,500	8,000
Max. Machine Height	mm	2,800	2,900	2,700	2,700
Power Capacity	kVa	25	25	25	25
Air Source	bar	6 - 8	6 - 8	6 - 8	6 - 8

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## OTHER MACHINE TYPE

**FT**  
CNC TURNING  
CENTER BOX WAY



**HV**  
VERTICAL MACHINING  
CENTER HIGH TECH



**FV**  
DOUBLE COLUMN  
MACHINING CENTER



**TV**  
DRILLING AND  
TAPPING CENTER



**QMP**  
VERTICAL  
MACHINING CENTER  
QUICK MILL



**FB**  
VERTICAL MACHINING  
CENTER BOX WAY



**VB**  
VERTICAL MACHINING  
CENTER BOX WAY



**U-600**  
5-AXIS VERTICAL  
MACHINING CENTER



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