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ISO 9001



ISO 14001



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AF SERIES

High Performance Vertical Machining Center



AF

Series

610 / 650 / 760 / 860 / 1000

1060 / 1250 / 1460 / 1400 / 1600 / 1800

High Performance Vertical Machining Center

Based on AWEA's innovative technology, the AF series is specialized on high precision parts and mold machining industry. It can fully present high precision and high efficiency machining ability with very reasonable cost.

- The modular spindle design provides cutting flexibility for various machining needs.

SOLUTION FOR PRECISION PARTS

Spindle	Taper	Speed Range
Belt-drive Spindle	BT40	8,000 ~ 10,000 rpm

SOLUTION FOR PRECISION MOLD

Spindle	Taper	Speed Range
Direct-drive Spindle	BT40 / BT50	8,000 ~ 15,000 rpm

SOLUTION FOR HEAVY CUTTING*1

Spindle	Taper	Speed Range
Gear Spindle	BT40 / BT50	8,000 / 6,000 rpm

*1 Please contact with your sales representative for applicable models.



AF

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610 / 650 / 760 / 860 / 1000

1060 / 1250 / 1460 / 1400 / 1600 / 1800

High Performance Vertical Machining Center

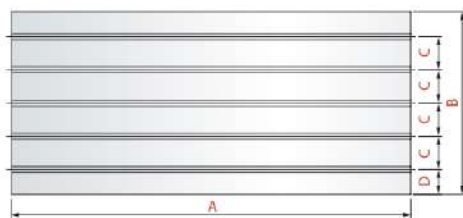
Combining strong machining capability and superior quality, the AF series fulfills various machining requirements along with stable accuracy and long-lasting durability.

- X-axis travel 610 mm ~ 1,800 mm, Y / Z axes travel 450 mm ~ 800 mm.
The complete product series can fulfill major working needs.
- High precision linear guide way design is used on three axes to provide the optimum control and efficient movement. Also, base on the actual machining application, customers can either select roller type or ball type linear guide way.
- Highly efficiency 24T arm type magazine design provides fast and reliable tool change system.
- Rotary operation panel and large width of protection door provide convenient operation display and spacious space for loading and unloading parts.
- Independent coolant tank system provide ease of maintenance.
- High pressure coolant pump efficiently increase cooling capability.

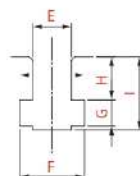


Dimensions

Table Dimensions



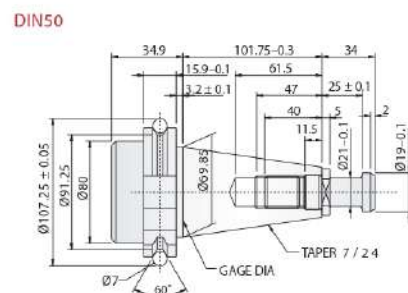
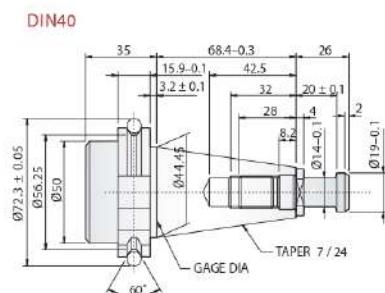
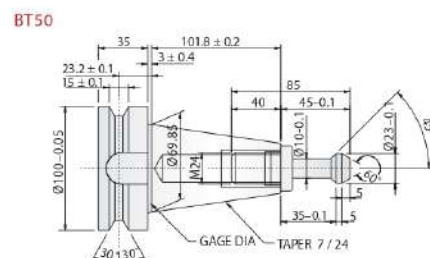
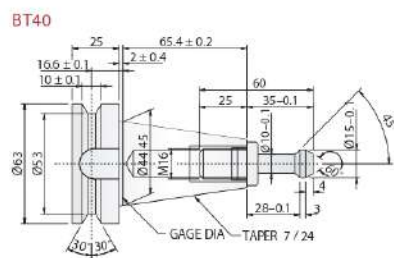
T-slot Dimensions



Models	A	B	C	D	E	G	H	I	J	No.1
AF-610	700	450	100	75	14	24	10	15.5	26.5	4
AF-650	750	510	100	105	14	24	10	15	25.5	4
AF-760	860	510	100	105	14	24	10	15	25.5	4
AF-880	1,000	600	100	100	18	30	12	24	37.5	5
AF-1000	1,200	550	100	75	18	30	12	20	34	5
AF-1060	1,200	600	100	100	18	30	12	24	37.5	5
AF-1250	1,350	620	100	110	18	30	12	24	37.5	5
AF-1460	1,500	620	100	110	18	30	12	24	37.5	5
AF-1400	1,500	800	150	100	18	30	13	20	34	5
AF-1600	1,700	800	150	100	18	30	13	20	34	5
AF-1800	1,900	800	150	100	18	30	13	20	34	5

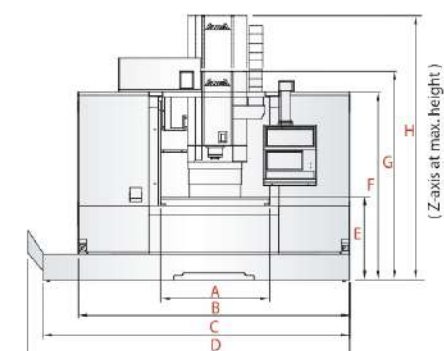
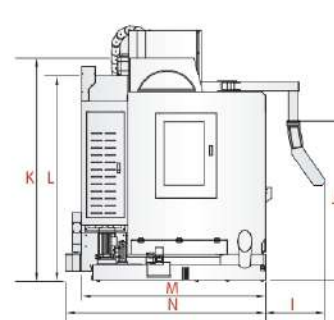
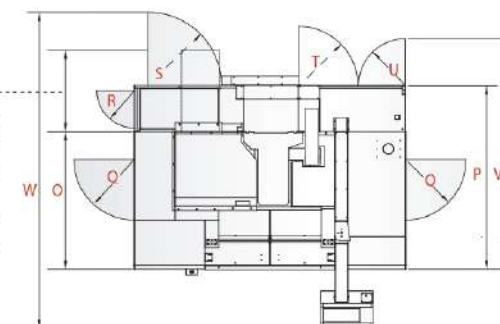
*1 : No. = Number of T-slots

Tool Shank and Pull Stud Dimensions



Machine Dimensions

AF-1000	BT40 - 32 / 40T : 865 mm
AF-860 / 1060	BT40 - 40T : 745 mm
AF-1250 / 1460	BT40 - 40T : 720 mm BT40 - 60T : 1.405 mm
AF-1400 ~ 1800	BT50 - 30T : 985 mm



Models	A	B	C	D	E	F	G	H	I	J	K	L
AF-610	900	2,090	2,090	2,420	800	1,900			400	1,210	2,300	1,950
AF-650	875	2,200	2,415	2,703	825	1,905	2,305	2,815	615	860	2,285	1,905
AF-750	875	2,200	2,415	2,703	825	1,905	2,305	2,815	615	860	2,285	1,905
AF-850	1,100	2,600	2,810	3,205	950	2,050	2,435	3,035	655	1,830	2,610	2,260
AF-1000	1,200	3,000	3,390	3,643	915	2,080	1,905	2,540	655	1,765	2,520	2,170
AF-1060	1,300	3,100	3,310	3,710	950	2,050	2,435	3,035	655	1,830	2,610	2,260
AF-1250	1,250	3,400	3,400	3,920	880	2,025	2,380	3,000	655	1,830	2,695	2,300
AF-1450	1,500	3,850	3,850	4,375	880	2,025	2,380	3,000	655	1,830	2,695	2,300
AF-1400	1,550	3,950	3,950	4,278	1,050	2,315	2,645	3,445	655	1,840	3,330	2,980
AF-1600	1,750	4,400	4,400	4,728	1,050	2,315	2,645	3,445	655	1,840	3,330	2,980
AF-1800	1,900	4,880	4,880	5,208	1,050	2,315	2,645	3,445	655	1,840	3,330	2,980

Models	M	N	O	P	Q	R	S	T	U	V	W
AF-610	2,500	2,500	1,358	2,310	650	400	--	545	--	3,255	--
AF-650	2,100	2,595	1,440	2,595	670	400	--	545	545	3,840	--
AF-760	2,100	2,595	1,440	2,595	670	400	--	545	545	3,840	--
AF-860	2,195	2,275	1,650	2,150	670	400	840	335	580	3,140	3,645
AF-1000	2,040	2,220	1,520	2,030	670	400	810	660	560	3,345	3,495
AF-1260	2,195	2,375	1,650	2,150	670	400	1,100	335	580	3,140	3,495
AF-1250	2,200	2,380	1,650	2,200	800	400	895	550	580	3,405	3,750
AF-1460	2,200	2,380	1,650	2,200	800	400	895	550	580	3,405	3,750
AF-1400	2,915	3,095	2,175	2,875	900	--	--	600	620	4,130	--
AF-1600	2,915	3,095	2,175	2,875	900	--	--	600	620	4,130	--
AF-1800	2,915	3,095	2,175	2,875	900	--	--	600	620	4,130	--

Specifications are subject to change without notice.

		AF-610	AF-650	AF-760	AF-860	AF-1000	AF-1060
SPECIFICATIONS							
X-axis travel	mm	610	650	760	860	1,020	1,060
Y-axis travel	mm	450	510	510	600	550	600
Z-axis travel	mm	450	510	510	600	635	600
Distance from spindle nose to table top	mm	150 ~ 600	100 ~ 610	100 ~ 610	100 ~ 700	100 ~ 735	100 ~ 700
TABLE							
Table size (X direction)	mm	700	750	860	1,000	1,200	1,200
Table size (Y direction)	mm	450	510	510	600	550	600
Table load capacity	kg	450	500	500	700	700	700
T slot (Width x Pitch x No.)		14 mm x 100 mm x 4			18 mm x 100 mm x 5		
SPINDLE							
Spindle taper		BT40			BT40 (Optional BT50)		
Spindle motor (cont. / 30 min.)	kW	7.5 / 11					
Max. spindle speed	rpm	Belt-drive 8,000 / 10,000					
FEED RATE							
X / Y axes rapid feed rate	m/min.	32	48	48	48	36	48
Z-axis rapids feed rate	m/min.	24	32	32	32	24	32
Cutting feed rate	m/min.	15					
TOOL MAGAZINE							
Tool magazine capacity	T	24					
Max. tool length	mm	250					
Max. tool weight	kg	7					
Max. tool diameter / adj. pocket empty	mm	Ø 75 / Ø 150					
ACCURACY							
Positioning accuracy (ISO230-2)	mm	0.006					0.008
Repeatability (ISO230-2)	mm	0.005					0.006
GENERAL							
Control system		FANUC Oi - MF					
Pneumatic pressure requirement	kg/cm ²	6					
Power requirement	kVA	20	25	25	30	30	30
Coolant tank capacity	liter	157	282	282	300	386	325
Machine weight	kg	3,500	4,300	4,600	6,500	6,500	6,800

Standard Accessories

- Spindle air curtain
- Coolant nozzle around spindle
- Spindle cooling system
- Centralized automatic lubricating (X / Y / Z)
- Fully enclosed splash guard
- Coolant equipment
- Chip augers
- Automatic power-off system
- Heat exchanger for electrical cabinet
- Foundation bolt kit
- Tool box
- Air gun
- Alarm light

		AF-1250	AF-1460	AF-1400	AF-1600	AF-1800
SPECIFICATIONS						
X-axis travel	mm	1,250	1,400	1,400	1,600	1800
Y-axis travel	mm	620	620	800	800	800
Z-axis travel	mm	620	620	800	800	800
Distance from spindle nose to table top	mm	100 ~ 720		200 ~ 1,000		200 ~ 1,000
TABLE						
Table size (X direction)	mm	1,350	1,500	1,500	1,700	1,900
Table size (Y direction)	mm	620	620	800	800	800
Table load capacity	kg	1,000	1,000	1,200	1,500	1,800
T slot (Width x Pitch x No.)		18 mm x 100 mm x 5		18 mm x 150 mm x 5		
SPINDLE						
Spindle taper		BT40 (Optional BT50)				
Spindle motor (cont. / 30 min.)	kW	7.5 / 11		11 / 15		
Max. spindle speed	rpm	Belt-drive 8,000 / 10,000		Direct-drive 10,000		
FEED RATE						
X / Y axes rapid feed rate	m/min.	48	48	30	30	30
Z-axis rapids feed rate	m/min.	36	36	24	24	24
Cutting feed rate	m/min.	15		12		
TOOL MAGAZINE						
Tool magazine capacity	T	24				
Max. tool length	mm	250		300		
Max. tool weight	kg	7		15		
Max. tool diameter / adj. pocket empty	mm	Ø 75 / Ø 150		Ø 105 / Ø 210		
ACCURACY						
Positioning accuracy (ISO230-2)	mm	0.008				
Repeatability (ISO230-2)	mm	0.006				
GENERAL						
Control system		FANUC Oi - MF				
Pneumatic pressure requirement	kg/cm ²	6				
Power requirement	kVA	35	35	40		
Coolant tank capacity	liter	350	385	609	628	662
Machine weight	kg	8,000	8,300	13,980	15,350	17,000

Specifications are subject to change without notice.

Optional Accessories

- ATC with 30 / 32 / 40 tool magazine
- Coolant through spindle (CTS)
- Spindle thermal compensation
- Oil skimmer
- CNC rotary table
- A / C cooler for electrical cabinet
- Coolant through the tool adapter
- Chip wash down coolant system
- Automatic tool length measurement
- Automatic work piece measurement
- Gravity axis anti-drop function
- MITSUBISHI / HEIDENHAIN control system
- chip conveyor and bucket
- Optical Linear scale
- Roof enclosure
- Transformer