AV Series box way vertical machining centers, gear driven

Nine models, 850 to 2200 mm X travel

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A bar across several models means they share that value.

			AV-850BG	AV-1000BG	AV-1104BG	AV-1105BG	AV-1304BG	AV-1305BG	AV-1600BG	AV-2000BG	AV-2200BG
X × Y travel, drawn to scale											
Travels	X-axis	mm	850	1020	1100		1300		1600	2000	2200
	Y-axis	mm	510	510	700				800	900	1000
	Z-axis	mm	560		710				800		
	X/Y/Z ballscrews	mm	C3 40						C3 50		
	Spindle nose to table surface	mm	140-700		130-740		130-840		200-1000		250-1050
	Spindle center to column surface	mm	575		730				870		1050
Table	Table size	mm	1000 × 500	1200 × 500	1300 × 650		1500 × 650		1800 × 840	2200 × 850	2400 × 1000
	T-slot (size / qty. / distance)	mm	18 / 5 / 100						22 / 5 / 150		22 / 7 / 150
	Max. load on table	kg	500		1000				2200	2500	3000
Spindle	Speed	RPM	8000 (opt. 10K-15K)		8000	6000	8000	6000			
	Taper		BT 40 / DIN 40 / CAT 40			BT 50 / DIN 50 / CAT 50	BT 40 / DIN 40 / CAT 40	BT 50 / DIN 50 / CAT 50			
Feed rates	Rapid feed rate, X/Y/Z	m/min	24 / 24 / 16		24 / 24 / 15				15 / 15 / 12		
ATC	Tool capacity	pcs	Armless 16 (opt. Armless 20, w/ Arm 24)		#40 Arm 24 (opt. Chain 32)	#50 Arm 24 (opt. Chain 32)	#40 Arm 24 (opt. Chain 32)	#50 Arm 24 (opt. Chain 32)			
	Max. tool diameter	mm	Full 100, next empty 150		Full 80, next empty 150	Full 125, next empty 200	Full 80, next empty 150	Full 125, next empty 200			
	Max. tool weight	kg	7			15	7	15			
Power	Spindle motor	kW (HP)	5.5/7.5 (10 HP)		7.5/11 (15 HP)				11/15 (20 HP)		
	Axis motors	kW	2		3.5				3.5 / 7 / 3.5		
	Power supply	kVA	15		20				35		
Coolant	Coolant tank capacity	L	230		270				300	590	
Machine	Dimensions (L×W×H)	mm	2900 × 2420 × 2850	2900 × 2420 × 840	3000 × 2825 × 3100	3200 × 2825 × 3100	3000 × 2825 × 3100	3200 × 2825 × 3100	4400 × 3330 × 3310	5500 × 3750 × 3310	6130 × 4200 × 3530
	Net weight (approx.)	kg	7,080	6,600	9,600	9,700	9,800	9,900	17,900	18,700	25,200
	Gross weight (approx.)	kg	7,280	6,800	9,800	9,900	10,000	11,000	18,200	19,100	25,600

Same on every model

Drive type	**Gear drive**	Coolant pressure	**10 kg/cm²**
Cutting feed rate	**1-10,000 mm/min**	Coolant pump power	**0.75 HP**
Max. tool length	**300 mm**	Air source pressure	**6 kg/cm²**

Standard on every model

- Fanuc control
- Rigid tapping
- Auto power off
- Auto lubrication
- RS-232 interface
- Halogen work light
- End of program light
- Heat exchanger for electrical cabinet
- Full guarding chip enclosure
- Remote handwheel
- Spindle oil cooler

Optional on every model

- High pressure coolant
- A/C for electrical cabinet
- Coolant through spindle (CTTS)
- Screw type chip conveyor
- Chain type chip conveyor
- Scraper type chip conveyor
- Oil skimmer
- Oil through tool holder
- Oil mist lubrication pump
- 4th axis