AV Series box way vertical machining centers, belt driven

Nine models, 510 to 2200 mm X travel

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A bar across several models means they share that value.

			AV-510B	AV-610B	AV-850B	AV-1000B	AV-1100B	AV-1300B	AV-1600B	AV-2000B	AV-2200B
X × Y travel, drawn to scale											
Travel	X-axis	mm	510	610	850	1020	1100	1600	1600	2000	2200
	Y-axis	mm	410	460	510	510	700	700	800	900	1000
	Z-axis	mm	460	510	560	560	610	710	800	800	800
	X/Y/Z ballscrews	mm	C3 32	C3 40					C3 50		
	Spindle nose to table surface	mm	130-590	130-640	140-700		130-740	130-840	200-1000		250-1050
Table	Table size	mm	600 × 370	800 × 450	1000 × 500	1200 × 500	1300 × 650	1500 × 650	1800 × 840	2200 × 850	2400 × 1000
	T-slot (size / qty. / spacing)	mm	14 / 3 / 100	18 / 3 / 100	18 / 5 / 100				22 / 5 / 150		22 / 7 / 150
	Max. table load	kg	300	400	500		1000		2200	2500	3000
Spindle	Speed	RPM	8000 (opt. 10K-24K)		8000 (opt. 10K-15K)						
Feed rates	Rapid feed rate, X/Y/Z axes	m/min	24 / 24 / 16				24 / 24 / 15		15 / 15 / 12		
ATC	Tool capacity	pcs	Armless 12 (opt. 20)	Armless 16 (opt. armless 20, w/ arm 24)			Armless 20 (opt. w/ arm 24, w/ chain 32)		#40 Arm 24 (opt. w/ chain 32)		
	Max. tool diameter	mm	Full 100, next empty 150						Full 80, next empty 150		
	Max. tool weight	kg	6	7					7.5		
Motor power	Spindle motor	kW (HP)	3.5/5.5 (7.5 HP)	5.5/7.5 (10 HP)			7.5/11 (15 HP)		11/15 (20 HP)		
	Axis motors	kW	1.5	2			3.5		3.5 / 7 / 3.5		
	Power	kVA	15				20		35		
Coolant	Tank capacity	L	180	200	230		270		300		590
Machine	Dimensions (L×W×H)	mm	2000 × 2305 × 2460	2160 × 2435 × 2550	2900 × 2420 × 2850	2900 × 2420 × 2840	3000 × 2825 × 3028	3200 × 2825 × 3028	4400 × 3428 × 3310	5500 × 3750 × 3310	6130 × 4200 × 3530
	Net weight (approx.)	kg	2,800	4,860	6,880	6,400	8,660	9,600	17,700	18,500	25,000
	Gross weight (approx.)	kg	3,000	5,060	7,080	6,600	8,860	9,800	18,000	18,900	25,400

Same on every model

Taper	**BT 40 / DIN 40 / CAT 40**
Drive system	**Belt drive**
Cutting feed rate	**1-10,000 mm/min**
Max. tool length	**300 mm**
Coolant pressure	**10 kg/cm²**
Coolant pump power	**0.75 HP**
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