AV Series linear way vertical machining centers

Seven models, 510 to 1600 mm X travel

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A bar across several models means they share that value.

			AV-510L	AV-610L	AV-850L	AV-1000L	AV-1200L	AV-1300L	AV-1600L
X × Y travel, drawn to scale									
Travels	X-axis	mm	510	610	850	1020	1200	1300	1600
	Y-axis	mm	410	460	510		610	700	
	Z-axis	mm	460	510	560		610	700	
	X/Y/Z ballscrews	mm	C3 32	C3 40				C3 45	
	Spindle nose to table surface	mm	130-590	120-630	150-710		150-760	BT 40: 130-830	BT 50: 100-800
	Spindle center to column surface	mm	430	553	608		717	750	
Table	Table size	mm	600 × 320	800 × 450	1000 × 500	1200 × 500	1300 × 600	1450 × 700	1750 × 700
	T-slot (size / qty. / dist.)	mm	14 / 3 / 100	18 / 3 / 100	18 / 5 / 100			18 / 5 / 125	
	Max. load on table	kg	300	400	500		1000	1200	
Spindle	Spindle speed	RPM	8000 (opt. 10K-24K)		8000 (opt. 10K-15K)			8000	
	Taper		BT 40 / DIN 40 / CAT 40						BT 40 / DIN 40 / CAT 40 (opt. BT 50 / DIN 50 / CAT 50)
Feed rates	Rapid feed rate, X/Y/Z	m/min	36 / 36 / 36						30 / 30 / 24
ATC	Tool capacity	pcs	Genoa 12 (Armless 20, w/ Arm 20)	Genoa 16 (Armless 20, w/ Arm 24)			Genoa 20 (Armless 24, w/ Arm 32)		
Power	Spindle motor	kW (HP)	3.5/5.5 (7.5 HP)	5.5/7.5 (10 HP)			7.5/11 (15 HP)		
	Axis motors	kW	1.5	2			3		
	Power supply	kVA	15				20		
Machine	Dimensions (L×W×H)	mm	2000 × 2305 × 2460	2160 × 2435 × 2550	2900 × 2420 × 2850	2900 × 2420 × 2840	3448 × 2805 × 3044	3650 × 2915 × 3026	4050 × 2915 × 3026
	Net weight (approx.)	kg	2,800	4,860	6,880	6,400	7,610	8,350	10,000
	Gross weight (approx.)	kg	3,000	5,060	7,080	6,600	7,810	8,550	10,300

Same on every model

Spindle drive	**Belt driven**	Coolant pressure	**10 kg/cm²**
Cutting feed rate	**1-10,000 mm/min**	Coolant pump	**0.75 HP**
Max. tool diameter	**Full 100, next empty 150 mm**	Coolant tank capacity	**3 L**
Max. tool length	**300 mm**	Air source	**6 kg/cm²**
Max. tool weight	**6 kg**		

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