



**ASSOCIATED  
TECHNOCRATS  
PRIVATE LIMITED**

## PRODUCT GUIDE

**CNC MACHINING CENTERS & EDMs**



5 AXIS MACHINING CENTERS  
DOUBLE COLUMN MACHINING CENTERS  
VERTICAL MACHINING CENTERS  
EDMS MACHINE CNC / ZNC  
DRILL EDMs CNC / ZNC

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## 5 AXIS MACHINING CENTERS

*Quick Set*



Model	AV-120X	AV-1812X	AV-2516X	AV-3021X
Table Size (mm)	630 x 500	1800 x 1200	2650 x 1950	3500 x 2500
Travel X/Y/Z(mm)	1200 x 850 x 500	1800 x 1200 x 700	2500 x 1600 x 800	3000 x 2100 x 100
Job Weight on Table (KG)	"300 kg / Simultaneous 500 kg / Indexing"	4000	25000	7000 kg/Square meter
Distance between spindle & Table (Min- Max) (mm)	0-672	182-860	200-1000	500-1500
Spindle Type	HSK-A63	HSK-A63	HSK-A63	HSK-A63
Spindle RPM	24000	24000	26000	26000 / 15000
Spindle Power (KW)	29	42	32	20/63
Machine Size (LxWxH)(MM)	4660 x 4133 x 3490	4755 x 4750 x 4065	5340 x 5035 x 4953	7896 x 6095 x 5057
Machine Weight (KG)	15000	20500	35000	51000

- All dimensions are in mm

## DOUBLE COLUMN MACHINING CENTERS

*Quick Set*



Model	AV-70S	AV-128	AV-1612
Table Size (mm)	850 x 40	1300 x 850	1800 x 1300
Travel X/Y/Z(mm)	700 x 400 x 350	1200 x 800 x 500	1600 x 1200 x 700
Job Weight on Table (KG)	800	1500	4000
Distance between spindle & Table (Min- Max) (mm)	150-500	200-700	120-820
Spindle Type	HSK-E50	HSK-A63	HSK-A63
Spindle RPM	36,000	24,000	24,000
Spindle Power (KW)	15	29	29
Machine Size (LxWxH)(MM)	2531 x 1925 x 2663	2991 x 2845 x 3203	4936 x 3204 x 3610
Machine Weight (KG)	5700	11000	17000

- All dimensions are in mm

# VERTICAL MACHINING CENTERS

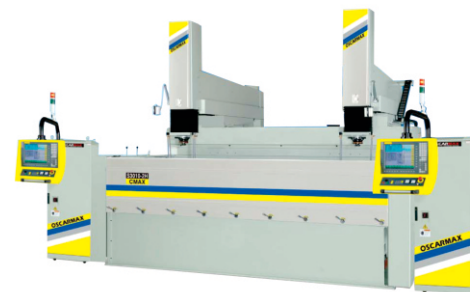
**LEADWELL**  
VMC (VE/NV Series)



Model	V-22iF/iR	V-30iF/iR	V-40iL	V-50L	V-60i	V-80i
Table Size (mm)	600x400	860x450	1120x610	1420x610	1550x750	2100x1000
Travel X/Y/Z(mm)	510x420x510	800x400x510	1020x635x610	1270x635x610	1520x800x720	2040/1000/720
Job Weight on Table (KG)	250	300	800	1000	1200	1800
Distance between spindle & Table (Min- Max) (mm)	100-610	600-610	100-710	100-710	120-840	120-840
Spindle Type	BT-40, Belt /Direct drive	BT-40, Belt /Direct drive	BT-40, Belt /Direct drive	BT-40, Belt /Direct drive	BT-40, Belt /Direct drive	BT-40, Belt /Direct drive
Spindle RPM	10,000/12,000 & 15,000 opt.	10,000/12,000 & 15,000 opt.	10,000/12,000 & 15,000 opt.	10,000/12,000 & 15,000 opt.	10,000/12,000 & 15,000 opt.	10,000/12,000 & 15,000 opt.
Spindle Power (KW)	11	11	18.5	18.5	15	15
Machine Size (LxWxH)(MM)	2440x2117x2370	2130x2400x2370	3200x2200x2721	3810x2200x2721	3942x4017x3348	5464x4512x3335
Machine Weight (KG)	3380	3500	6200	7000	10500	15100

- All dimensions are in mm

# EDMs MACHINE CNC / ZNC



Model	S325	S430S	S430	S550	S500	S645	S860	S1060	S1270	S1470	S1675	S1880	S2010	S2210
WorkTank: L	850	970	970	1200	1260	1500	1700	1900	2100	2200	2400	2600	2740	2850
W	550	550	550	690	780	940	1100	1100	1250	1320	1320	1320	1600	1600
H	340	350	350	425	520	520	615	615	615	615	650	700	700	740
Worktable* L	650	650	650	800	850	1000	1200	1250	1350	1700	1800	2150	2150	2250
W	350	350	350	450	400	600	700	750	820	950	950	1100	1100	1100
TableTravel (X)	300	400	400	500	500	600	800	1000	1200	1400	1600	2000	2000	2200
TableTravel (Y)	250	300	300	400	400	450	600	600	700	700	750	1000	1000	1000
ServoTravel*	300	300	300	350	350	400	500	500	500	500	550	600	600	600

# For CNC Machine

- All dimensions are in mm

Generator	30A	60A	90A	120A	180A
Max. Mach. current (Amp.)	30	60	90	120	180
Max removal rate (mm <sup>3</sup> / min)	250	430	700	900	1500
Min. electrode wear ration (%)	0.15	0.15	0.15	0.15	0.15
Best surface roughness (µm/Ra)	0.15	0.18	0.18	0.18	0.18

- All dimensions are in mm



Specifications	Unit	SD 300	SD 400	SD 550
Work Table (LxW)	mm	460 x 210	600 x 300	800 x 450
Table travel (X)	mm	300	400	550
Table travel (Y)	mm	200	300	400
Servo travel	mm	345	345	345
Electrode Guide Travel (Z-axis Travel Included)	mm	250	350	350
Distance between Platen & Table	mm	270-20	375-25	415-65
Working Fluid and Capacity	L	45L	45L	45L
Max. Workpiece Weight	kgs	250	450	1000
Machine Weight (net)	kgs	1000	1200	1950
Power Source	V	220/380	220/380	220/380
Power Source	V	415/440	415/440	415/440
Max. Power Consumption	KVA	4.5	4.5	4.5
Max. Machining Current	A	50	50	50

- All dimensions are in mm



**Material: Stainless**  
 Ø1.0mm Depth: 3.8mm  
 Total: 4 hours \*600 holes  
 Drawing automatic transfer  
 with 6 axes machining  
 \*SD CNCW



**Material: Stainless 420**  
 Ø0.3mm Depth: 0.6mm x 6  
 holes  
 Time: 2 mins (total)  
 Equip with titling 30 degree  
 and rotating axes  
 \*SD CNCW



**Material: Stainless**  
 Ø0.1mm Depth: 0.2mm x 6  
 holes  
 Real hole: Ø0.12mm  
 Equip with rotary table.  
 \*SD CNCW



**Material: Inconel**  
 Job: Turbine blade x 40 holes  
 Ø0.7mm with variable holes  
 Time: 30 mins  
 with breakthrough detect  
 system  
 \*SD CNCW



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