AGRA

HIGH SPEED VMC SERIERS

AHSM-1000/1000L





BT-40 SPEED-800/1500 UP TO 38000 RPM
THE LEADER IN QUALITY AND RELIABILITY



ACRA AHSM SERIES FEATURES:

- HIGH SPEED CUTTING, SAVE UP TO 60% TIME.
- HIGH VOLUME HARD DISK DRIVE, UP TO 6 GB.
- HIGH END CNC CONTROLS, UP TO DUAL CPU, WINDOWS NT, TOUCH SCREEN.
- HIGH SPEED BLOCK READING, UP TO 1000 BLOCK/SEC.
- HIGH SPEED LOOK AHEAD, UP TO 1024 BLOCKS.



EXTREMERY RIGID CASTING FRAME W/O DEFORMATION

- HIGH QUALITY MEEHANITE CASTINGS WITHOUT DEFORMATION.
- HIGH QUALITY SPINDLE DESIGN WITH SUPER LOW VIBRATION.
- HIGH SPINDLE SPEED, UP TO 38000 RPM.
- HIGH RAPID FEEDRATE, UP TO 30 METER PER MINUTE.
- HIGH END LATEST TECHNOLOGY LINEAR SLIDEWAYS WITH AROUND 10 CC YEARLY OIL CONSUMPTION, MAXIMUM 18000KM TRAVELLING DISTANCE.



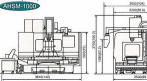
AHSM SERIES HIGH SPEED VERTICAL MACHINING CENTERS:

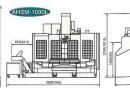
	MODEL		UNIT	AHSM-1000	AHSM-1000L
ı		OVERALL SIZE	MM(INCH)	1070x500(42x19.6)	1200x610(47.2x24
		WORKING AREA	MM(INCH)	1070x500(42x19.6)	1200x610(47.2x24
	TABLE:	T SLOTS (SIZE x NO x PITCH)	MM(INCH)	18x5x100(11/16x5x4)	18x6x100(11/16x6x4
		MAXIMUM LOADING	KG(LBS)	500(1102)	850(1873)
	TRAVEL:	X/Y/ZAXIS	MM(INCH)	1020/510/510(40/20/20)	1020/610/610(40/24/25
	DISTANCES:	SPINDLE TO COLUMN WAYS	MM(INCH)	550(21.6)	645(25.3)
		SPINDLE TO TABLE TOP	MM(INCH)	110-720(4.3-28.3)	150-750(5.9-29.5)
		FLOOR TO TABLE TOP	MM(INCH)	810(31.8)	820(32.2)
	SPINDLE:	TAPER	BT#	40	40
		SPEED	RPM	8000	8000
		FRONT BEARING DIAMETER	MM(INCH)	70(2.7)	70(2.7)
		MOTOR		7.5	7.5
	AXIS MOTORS: X & Y/Z	HEIDENHAIN / SIEMENS / SELCA	KW	14	14
		CUTTING FEED RATE	NM	1-7000	1-7000
	RAPID FEEDRATE	WITH EUROPEAN CONTROL	MM / MIN	30/30/24	30/30/24
	X/Y/Z	MINMUM SETTING	M / MIN	0.001(0.00004)	0.001(0.00004)
	AUTOMATIC TOOL CHNGER:	TYPE OF ATC	MM(INCH)	SWING	SWING ARM
		NO. OF ATC	TOOLS	24	24
		MAX. TOOL (DIA / LENGTH)	MM(INCH)	150/300(5.9/11.8)	150/300(5.9/11.8)
		MAX. TOOL WEIGHT	KG(LBS)	7(15)	7(15)
		TOOL TO TOOL	SEC.	3	3
		CHIP TO CHIP	SEC.	10	10
	BALLSCREWS ON 3 AXIS:	DIA. X PITCH (X,Y AXIS)	MM x MM	40x16(1-1/2x5/8)	40x16(1-1/2x5/8)
		DIA. X PITCH (Z AXIS)	MM x MM	50x12(2x1/2)	50x12(2x1/2)
		PRECISION CLASS	C3, MM/300MM	0.008	0.008
	COOLANT & LUBRICATION:	COOLANT MOTOR POWER	KW	0.86	0.86
		COOLANT TANK VOLUME	L	120	120
		COOLANT MOTOR CAPACITY	L/MIN	20	20
		LUBRICATION MOTOR POWER	WATT	25	25
		LUBRICATION TANK VOLUME	L	2	2
	ACCURACY:	POSITIONING	MM(INCH)	JIS 6338:-0.005/300(-0.0002/11.8) VID 3441:P0.014(0.0005)	
		REPEATABILITY	MM(INCH)	JIS 6338:-0.003(-0.0001) VID 3441:P0.014(0.0005)	
		ROUNDNESS	MM(INCH)	JIS 6338:-0.01/300(-0.0004/11.8) DIAMETER	
	MISCELLANEOUS:	MACHINE NET WEIGHT	KG(LBS)	5500(12122)	6800(14987)
		POWER REQUIRED	KVA	20	20
		PNEUMATIC REQUIRED	KG/CM ²	7	7

STANDARD FEATURES & ACCESSORIES

- FULL SPLASH GUARD.
- PROGRAMMABLE COOLANT SYSTEM.
- AUTOMATIC LUBRICATION SYSTEM.
- SPINDLE AIR BLAST SYSTEM.
- WORKING LAMP.
- ALARM LAMP FOR ABNORMAL SITUATION.
- INDICATION LAMP FOR DWELL & END OF JOB.
- LEVELLING BOLTS & PADS.
- RS-232 TERMINAL INTERFACE PORT.
- MACHINE & CONTROL MANUALS.
- TOOLBOX WITH SPANNERS & WRENCHES.
- SPINDLE OIL COOLER DEVICE.







ERIOR DESIGNED FEATURES FOR HIGH SPEED:



SUPERIOR SPINDLE DESIGN MINIMIZES THERMAL DISTORTION WITH CHILLED OIL CIRCULATING UP TO BEARINGS' OUTER RINGS & FRONT NOSE AREA: 4 PCS 70 MIN DIAMETER P4 HIGH PRECISION BEARINGS, BT#40 OR CAT#40 OR ISO 40 DIN 69871 TOOL HOLDER. 1200KG CLAMPING FORCE. STANDARD 8000 RPM.



THE UNIQUE CAM MECHANISM TO TRIGGLE OFF THE TOOL UNCLAMPING AND EXCHANGING AT ONE MOMENT. WITHOUT ANY SIGNAL WAITING TIME: FAST AND RELIABLE.

MAXIMUM TOOL DIMENSION-150MM DIAMTER (WITH NO ADJACENT TOOL), 300MM LENGTH AND 7 KG WEIGHT; STANDARD 24 STATIONS, OPTIONAL CAN BE 32 OR 40 STATIONS.



LINEAR GUIDES

THE LATEST TECHNOLOGY HEAVY DUTY LINEAR BEARINGS OFFER MAXIMUM 18000KM TRAVELLING WORKING DISTANCE DUE TO THE LATEST DESIGN OF BALL RETAINER, RESULTS MUCH LESS NOISE AND MUCH LONGER LIFE. OIL CONSUMPTION THANKS TO THE LATEST DESIGN OF SPECIALLUBRIC-ATION UNIT ON THE SLIDING UNIT, CONSUMES AROUND 10 CC OIL PER YEAR.

OPTIONAL ACCESSORIES & FUNCTIONS







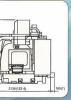
1. COOLANT THRU SPINDLE DEVICE. 2. GRAPHITE CUTTING WATER CURTAIN



DEVICE.



5.BT#40 FAST ATC 1.5 SECOND





6.AUTOMATIC TOOL LENGTH & RADIUS MEASUREMENT (RENISHAW TS-27R)



7.WORKPIECE PROBE (RENISHAW MP-10/12

COMPACT DESIGNED:

AN OPTIONAL ADDITIONAL CHIP CONVEYOR IS AVAILABLE. THE CUTTING CHIPS ARE COOLED BY COOLANT AND EJECTED QUICKLY BY WAY OF THE CHIP CONVEYOR. ALL MAINTENANCE PARTS ARE CONVENIENTLY LOCATED AT THE BACK OF THE MACHINE.

PHOTO SHOWN 3 COOLANT PUMPS HAVE BEEN WELL COVERED & PROTECTED.





DIGITAL LATEST CNC CONTROL

WITH HIGH RATE DATA TRANSMISSION, ADVANCED PREVIEW & PRECISION CONTOURING CONTROL. PLUS DIGITAL DRIVE AND QUICK SPINDLE & SERVO ACCELERATION / DECELERATION.



● FANUC 16i/18i



HEIDENHAIN i530



SELCA S4045D/PD

HIGH SPEED MACHINING

HSC (HIGH SPEED CUTTING) IN NOT ONLY FOR SPEED, BUT WIDELY APPLIED IN MOULD & DIE INDUSTRIES AND AEROSPACE TO REDUCE CYCLE TIME, IMPROVE SURFACE AND INCREASE TOOL LIFE; FOLLOWINGS ARE THE BASIC



DIRECT DRIVE SPINDLE

REMOVE ANY BACKLASH, AND ENSURE THE BEST PERFORMANCE ON FINAL SURFACE FINISHING.



MOTOR SPINDLE

VARIOUS BUILT-IN HIGH FREQUENCY MOTOR SPINDLES GURANTEE MINIMUM VIBRATIONS AND BEST FINAL PERFORMANCE; CHOICES: TOOL HOLDER: ISO 30/40 TO HSK-E40/A63 MOTOR POWER: 7.6 KW TO 21 KW SPEED RPM: 15000 RPM TO 38000 RPM



FREJOTH INTERNATIONAL LT

8F #501, SEC.2, WU CHUAN W. RD., TAICHUNG 408, TAIWAN, R.O.C. TEL:886-4-23816977 FAX:886-4-23813584.23813769 E-mail:frejoth@tcts.seed.net.tw web-site http://www.acra.com.tw