



RATNAPARKHI
ELECTRONICS IND. PVT. LTD.
SINCE 1989

Contact us



ALTRA ZNC



We Support



MAKE IN INDIA

Features

1) High speed jump

- ▲ High speed jump of 3.3 mtr/min maintains clean gap. This ensures highly efficient and reliable EDM machining

2) Adaptive multi stage anti arc

- ▲ Spark discharge is continuously monitored and instant pulse to pulse corrective actions are taken,
- ▲ Jump cycle and gap control are adjusted suitable in case difficult spark condition
- ▲ Unhealthy spark condition is indicated on front plate by glowing red anti arc LED. Corrective actions are taken automatically till AA red LED Glows

3) SAFE Mode

- ▲ Safe mode for deep cavities where flushing conditions are difficult to maintain

4) Z axis reference after power on to ensure correct z-axis co-ordinates

5) Ball screw for X,Y,Z and LM guideways for Z axis

6) Integral design with compact footprint

7) Auto cycle operation based on:

- ▲ Lift distance, Machining depth, Arc cycle for better carbon removal

8) LW:- Settable low wear factor for controlling electrode wear.

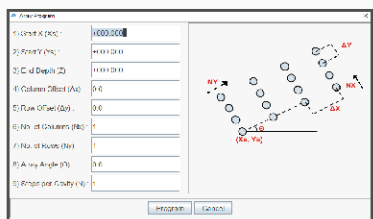
AZ 01: Pulse Generator

- ▲ Practically unlimited no. of programs and steps per program (depends on memory size)
- ▲ EDM technology at a glance on screen
- ▲ 3 axes digital positioning display
- ▲ Day and night/Sleep function
- ▲ Reverse Servo machining
- ▲ Higher material Removal Rate due to equi-energy pulse discharge
- ▲ Reduced electrode wear with high MRR
- ▲ Selectable High-speed jump function
- ▲ Inbuilt SAFE machining circuit
- ▲ Adaptive anti-arc and flushing control
- ▲ Selectable Anti-arc trip
- ▲ Programmable Multi-cavity operation
- ▲ industrial computer for human-machine interface
- ▲ Facility for PCD and Array program generation
- ▲ Safety Interlocks
- ▲ ABS/INC position display
- ▲ Z-axis AC Servo with high speed jump
- ▲ Pendant Unit

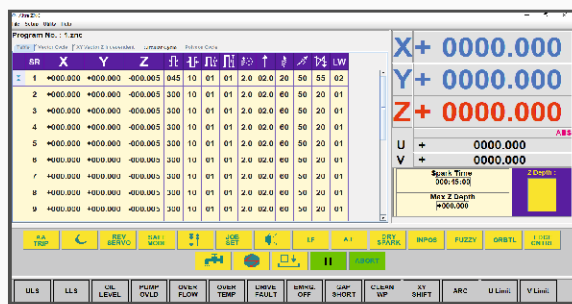
Safety & Production :

- ▲ Servo Fault.
- ▲ z/x,y,z axis over travel limit, over temperature, low level, over flow, pump overload

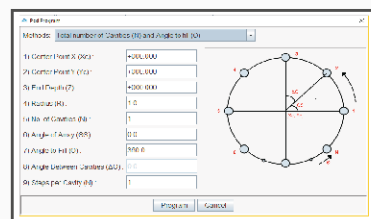
Array Programing



Self Guided operation panel



PCD Programing



Technical Specifications

Machine tool	5530 Altra ZNC	7045 Altra ZNC
Work Tank	850 x 530 x 300 mm	1100 x 700 x 400 mm
Work Table	550 x 300 mm	700 x 450 mm
X Travel	300 mm	450 mm
Y Travel	200 mm	350 mm
Z Travel	250 mm	250 mm
Machine X & Y axis	Ball Screw	Ball Screw with LM Guideways
Machine Z axis	Ball Screw with LM Guideways	Ball Screw with LM Guideways
Controller Z axis	AC Servo	AC Servo
Max. job weight	300 kg	800 kg
Max. Electrode Weight	60 kg	60 kg
Max.job height	250 mm	300 mm
Machine Weight	1000 kg	1550 kg
Machine foot print	1500 X 1500 X 2300	3000 X 2200 X 2400

EDM Pulse Generator

Sr.No.	Particular	Remark
1	Max Working Current	30+5-amp STD / 45+5 amp
2	Pulse ON-OFF Setting	Ton (1 to 999), τ (1 to 12)
3	Max MRR	
	* Copper to Steel	235 Mm3 /Min
	* Graphite To Steel	240 Mm3 /Min
	* Steel To Steel	150 Mm3 /Min
4	Minimum Electrode Wear	<0.1%
5	Surface Finish	μ Ra 0.8 – 1.3
6	Connected Load	5.5 kva
7	Power Supply	3 PHASE, 415 VAC, 50 Hz

Dielectric Unit

Sr.No.	Particular	5530 Altra ZNC	7045 Altra ZNC
1	Dielectric tank Capacity	300 litre	550 litre
2	Filter Element	10 μ paper	10 μ paper
3	No of Filter	2 Nos	2 Nos
4	Pump Motor	0.5 hp 3 phase 1 No	0.5 hp 3 phase 2 Nos

Important Note : In keeping with our constant endeavour to meet market needs, we reserve the right to alter or change the specifications mentioned, without prior notice

www.ratnaparkhiedm.com



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