

500 x 300 series

Electric Discharge Machines

500 x 300

Features

- Very low power consumption
- Like-to-like machining
- MOSFET for superior finish
- Carbide cutting
- Optimum performance
- NRB for co-ordinate table
- Impulse flushing
- Ergonomically designed control panel
- Day / Night mode for 24 hours operation
- Auto positioning with audiovisual signal
- Reverse servo for reverse sparking
- Multistage anti-arc in-built
- Reverse polarity for every operation
- Adjustable overflow
- DC servo with speed up function (700mm/min.)



500 x 300 ZNC

Programmable Z axis

Features

- 40 programs, 10 steps per program
- Background programming
- Bar graph display for program depth
- 3 axes position display
- Sleep mode
- Reverse servo machining
- Multistage anti-arc

Precision Co-ordinate Table

- Table made from close-grained casting to ensure structural stability
- Precision-ground screws with double lock nut for backlash adjustment
- Symmetric guideways to nullify thermal expansion
- Independent locking of slides, free from transverse forces
- Repeat positioning accuracy of 0.005 mm
- Needle roller bearings ensure smooth table movement

Long-life Machine Tool

- Box type construction with rectangular cross-section and heavy ribbing duly stress-relieved
- Highly deflection-resistant with excellent dynamic and static rigidity
- High-accuracy quill running on pre-loaded cross-roller bearing
- Accuracy of the quill 0.01 mm over 150 mm traverse

Optional Accessories

- Digital Read-Out (standard for ZNC)
- Universal electrode holder
- Job holding accessories
- Flush aid

Safety Interlocks

- Input supply over-voltage / under-voltage cut-off
- Low level safety shut-off (LL)
- Preset depth (PSD)
- Z-Upper Limit Switch (ULS)

Technical Specifications

Machine Tool	500 x 300 / ZNC
Work tank size	725 x 415 x 315 mm
Work table size	500 x 300 mm
T slots for fixing	3 of 10 mm
Longitudinal travel (X)	280 mm
Transverse travel (Y)	200 mm
Quill travel (Z)	250 mm
Max. permitted load on the table	175 kg
Max. electrode weight	50 kg
Max. height above the table	250 mm
Servo system (Z axis)	DC servo
Dielectric capacity	300 Liters
Filter element	10 μ paper filter
Pump motor rating	1 HP, 3 phase
Overall dimensions	1420 x 1140 x 2100 mm

Pulse Generator	
Max. working current	35 + 2 Amp
No. of power settings	99 x 9
Max. MRR (Copper to Steel)	250 mm ³ /min.
(Graphite to Steel)	400 mm ³ /min.
(Steel to Steel)	130 mm ³ /min.
Min. electrode wear	≤ 0.1 %
Surface finish	0.8 μ Ra
Connected load	3 KVA
Power supply	3 phase, 415 V [*] AC, 50 Hz

Dielectric Unit	
Dielectric capacity	300 Liters
Filter element	10 μ Paper filter