

MACHINE SPECIFICATIONS

UNIT: mm

ITEM/MODEL	MDS-400G	MDS-600G	MDS-400	MDS-400z	MDS-500z	MDS-500
TABLE SIZE	700 x 350	1000 x 600	700 x 350	700 x 350	800 x 450	800 x 450
X TRAVEL	400	600	400	400	500	500
Y TRAVEL	300	500	300	300	400	400
Z SERVO TRAVEL	300	500	300	200	200	350
Z AC MOTOR TRAVEL	NIL.	NIL.	NIL.	200	300	NIL.
ELECTRODE PLATE SURFACE TO WORK TABLE SURFACE	210-510	290-790	210-510	210-510	240-740	275-675
MAX. ELECTRODE WEIGHT	90kgs	250kgs	90kgs	90kgs	180kgs	220kgs
MAX. TABLE LOAD	1000kgs	4000kgs	600kgs	600kgs.	1350kgs.	1350kgs.
WORK TANK SIZE	1140x570x420	1500x850x570	1045x540x380	1045x540x380	1170x690x425	1200x690x425
MACHINE WEIGHT	2350kgs	5400kgs	1450kgs	1450kgs	1950kgs	1900kgs
DIELECTRIC TANK SIZE	BUILT-IN	1800x1000x470	BUILT-IN	BUILT-IN	1200x1000x460	1200x1000x450
CAPACITY	400L	840L	300L	300L	550L	550L

ITEM/MODEL	MDS-700z	MDS-600R	MDS-1000R	MDS-1800R	MDS-1550RD	MDS-2550RD
TABLE SIZE	1100 x 600	1000 x 600	1250 x 750	1850 x 1000	2250 x 1100	2250 x 1100
X TRAVEL	700	600	1000	1800	1550(SM),775(DM)	2550(SM),1275(DM)
Y TRAVEL	550	450	600	800	1000	1000
Z SERVO TRAVEL	250	400	500	600	600	600
Z AC MOTOR TRAVEL	300	NIL.	NIL.	NIL.	NIL.	NIL.
ELECTRODE PLATE SURFACE TO WORK TABLE SURFACE	250-835	300-700	420-920	450-1050	450-1350	450-1350
MAX. ELECTRODE WEIGHT	250kgs	250kgs	350kgs	500kgs	500kgs	500kgs
MAX. TABLE LOAD	2000kgs.	3000kgs.	4500kgs.	7000kgs.	10000kgs.	16000kgs.
WORK TANK SIZE	1700x1000x550	1500x940x520	1900x1100x615	2600x1320x700	3100x1700x800	4100x1700x800
MACHINE WEIGHT	3100kgs	3900kgs	5500kgs	9000kgs	15000kgs	21000kgs
DIELECTRIC TANK SIZE	2120x1300x460	2000x940x450	2300x1400x580	3000x1500x700	3540x1800x830	4450x1800x830
CAPACITY	1250L	1200L	1770L	3015L	5097L	6552L

• We reserve the right to modify the design and specifications without notice in advance.

Standard Accessories

- Paper Filters.
- Electrode Holder.
- Flushing Nozzle.
- Drill Chuck.
- Clamping Kits.
- Tool Box.
- Work Lamp.

Optional Accessories

- CE Conformity Machine.
- Spare PCB Set.
- Automatic Fire Extinguisher.
- Dielectric Cooler.
- Permanent Magnetic Table.



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EDM MACHINE

Superior Efficiency & Accuracy
Advanced Eroding Technology



Choice of ZNC, PNC or CNC control
to meet your specific requirement

MDS-400z

3-in-1 Compact + CE (OPTIONAL)

Table: 700 x 350mm
 X Travel : 400mm
 Y Travel : 300mm
 Z Travel : 200+200mm
 Max. Workpiece Weight : 600kgs
 Max. Electrode Weight : 90kgs
 Generator mounted on machine base



MDS-500z

Z-axis AC motor support travel

Table: 800 x 450mm
 X Travel : 500mm
 Y Travel : 400mm
 Z Travel : 200+300mm
 Max. Workpiece Weight : 1350kgs
 Max. Electrode Weight : 180kgs



MDS-400z

Z-axis AC motor support travel

Table: 700 x 350mm
 X Travel : 400mm
 Y Travel : 300mm
 Z Travel : 200+200mm
 Max. Workpiece Weight : 600kgs
 Max. Electrode Weight : 90kgs
 Generator floor free standing.



MDS-500

Table: 800 x 450mm
 X Travel : 500mm
 Y Travel : 400mm
 Z Travel : 350mm
 Max. Workpiece Weight : 1350kgs
 Max. Electrode Weight : 220kgs



MDS-600R

Ram Moving Head

Table: 1000 x 600mm
 X Travel : 600mm
 Y Travel : 450mm
 Z Travel : 400mm
 Max. Workpiece Weight : 3000kgs
 Max. Electrode Weight : 250kgs

MDS-1800R

Ram Moving Head

Table: 1850 x 1000mm
 X Travel : 1800mm
 Y Travel : 800mm
 Z Travel : 600mm
 Max. Workpiece Weight : 7000kgs
 Max. Electrode Weight : 500kgs



GENERATOR SPECIFICATIONS

GENERATOR	ZNC		PNC		CNC
FUNCTION	1/2 CENTER FINDING + Z AXIS PROGRAMMABLE 12 STEPS AUTO SPARKING + REVERSE SPARKING		ZNC FUNCTIONS + AUTO POSITIONING & SPARKING + AUTO-PROBING + SIDE SPARKING + PATTERNS.		PNC FUNCTIONS + 2.5D & 3D ORBIT-CUT.
SPARKING AXIS & DIRECTION	Z+ & Z-		X+/X-/Y+/Y-/Z+/Z-		X+/X-/Y+/Y-/Z+/Z-
LANGUAGE	CHINESE / ENGLISH				
DISPLAYER	15" COLOR LCD displayer				
DISPLAY AXIS	X,Y,Z AXIS THRU OPTICAL LINEAR SCALES				
RESOLUTION	0.005mm(standard) & 0.001mm(optional)				0.001mm
PROGRAMING	MAX. PROGRAM NUMBER 9999, MAX. 12 STEPS AUTO SPARKING.				
GENERATOR	60A	120A	180A	250A	300A
MAX. WORKING CURRENT	64A	125A	192A	256A	320A
POWER CONSUMPTION	7KVA	12KVA	18KVA	25KVA	30KVA
MAX. MACHINING SPEED mm³/Min.	680	1420	2230	2980	3760
BEST SURFACE ROUGHNESS	0.3 Ra um	0.3 Ra um	0.3 Ra um	0.3 Ra um	0.3 Ra um
MINIMUM ELECTRODE WEAR	< 0.2%	< 0.2%	< 0.2%	< 0.2%	< 0.2%
CABINET DIMENSION	560x900x1800	560x900x1800	600x1200x1800	600x1200x1800	600x1200x1800
NET WEIGHT	250kgs	280kgs	380kgs	420kgs	480kgs

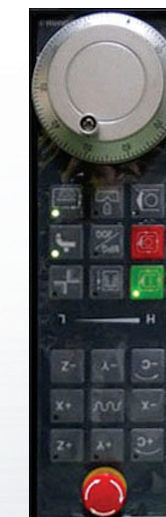
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MDS-1550RD

Double Ram Moving Head

Table: 2250 x 1100mm
 X Travel : 1550(SM)mm, 775(DM)mm
 Y Travel : 1000mm
 Z Travel : 600mm
 Max. Workpiece Weight : 10000kgs
 Max. Electrode Weight : 500kgs



Easy operation on X, Y, Z and C axis movement via remote controller.

Humanistic MPG which simplified mold alignment. Minimum movement unit is 0.001mm.



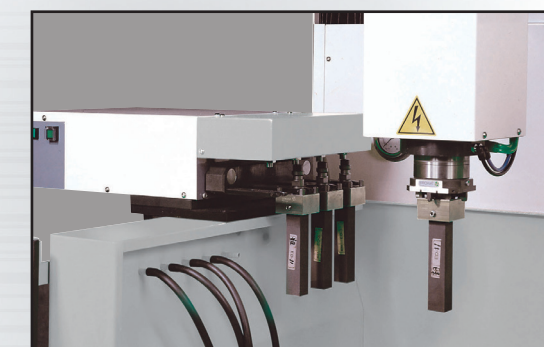
C axis

Head of 10 kgs load (Option)

MDS-2550RD

Double Ram Moving Head

Table: 2250 x 1100mm
 X Travel : 2550(SM)mm, 1275(DM)mm
 Y Travel : 1000mm
 Z Travel : 600mm
 Max. Workpiece Weight : 16000kgs
 Max. Electrode Weight : 500kgs



A.T.C.

With electrode protection sensor, insufficient air pressure sensor. (Option)

MDS-400G

Granite Machine body

Table: 700 x 350mm
X Travel : 400mm
Y Travel : 300mm
Z Travel : 200+200mm
Max. Workpiece Weight : 600kgs
Max. Electrode Weight : 90kgs
Generator mounted on machine base



G series Granite Machine Body

- Ram Moving Head
- Massive Structure with High Rigidity and Stability
- No Thermo Expansion
- Heavy Load Resistance
- Minimum thermal deformation



Main Mid Base



X Axis Base



Y Axis Column



MDS-400G with Full Cover (Optional)

Table: 700 x 350mm
X Travel : 400mm
Y Travel : 300mm
Z Travel : 300mm
Max. Workpiece Weight : 800kgs
Max. Electrode Weight : 90kgs

MDS-600G Granite Machine body

Table: 1000 x 600mm
X Travel : 600mm
Y Travel : 500mm
Z Travel : 500mm
Max. Workpiece Weight : 4000kgs
Max. Electrode Weight : 250kgs



ZNC

1/2 CENTER FINDING +
Z AXIS PROGRAMMABLE
12 STEPS AUTO SPARKING
+ REVERSE SPARKING

ZNC FEATURES:

- Heavily ribbed & tension released "Meehanite" machine frame.
- Z axis precision linear guideway + ballscrew and fitted with Electro-Magnetic brake, driven by high-performance D.C. servo motor.
- X & Y axis precision ballscrews, manual movement.
- 3 axis optical linear scales, resolution 0.005mm. (Optional 0.001mm)
- 15" color **LCD** displayer.
- Z axis programmable auto rough to fine sparking upto 12 steps.
- Reverse sparking (Z axis upward sparking) function..
- 1/2 center finding.

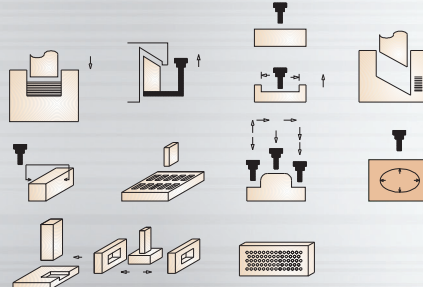
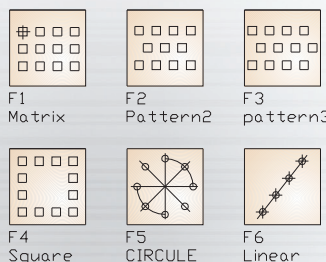
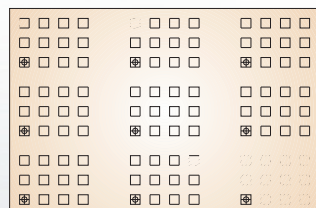


PNC

ZNC FUNCTIONS + AUTO
POSITIONING & SPARKING +
AUTO-PROBING + SIDE
SPARKING + PATTERNS.

PNC FEATURES:

- Heavily ribbed & tension released "Meehanite" machine frame.
- Z axis precision linear guideway + ballscrew and fitted with Electro-Magnetic brake, driven by high-performance D.C. servo motor.
- X & Y axis precision ballscrews and driven by high-performance D.C. servo motors.
- "L" models 3 axes equipped with linear guideways and precision ballscrews.
- 3 axes optical linear scales, resolution 0.005mm (optional 0.001mm).
- 15" color **LCD** displayer.
- All ZNC functions + Auto probing + Side sparking + Multi-cavity auto positioning & sparking + Patterns.

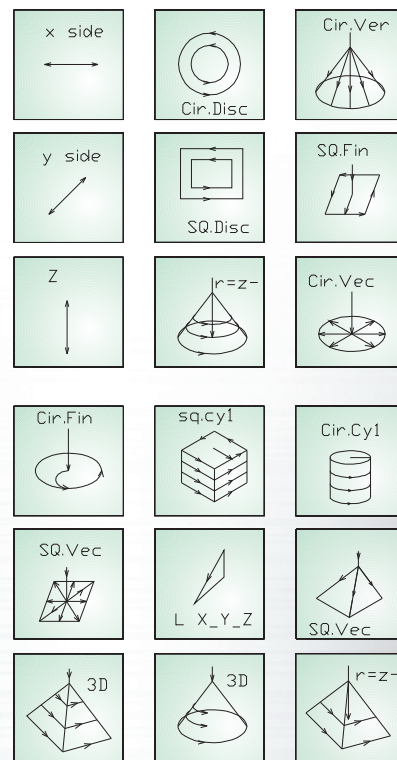


CNC

PNC FUNCTIONS +
2.5D ORBIT-CUT.

CNC FEATURES:

- Heavily ribbed & tension released "Meehanite" machine frame.
- All 3 axes equipped with linear guideways and precision ballscrews. Z axis fitted with Electro-Magnetic brake, driven by high-performance D.C. servo motor.
- 3 axes optical linear scales , resolution 0.001mm.
- 15" Color **LCD** displayer.
- All PNC functions + 2.5D orbit functions.



3D CNC

POWERFUL & COMPLETED CNC FUNCTIONS:

- A.T.C. & C axis are available for fully automated & non-stop machining (option).
- 3 axes 6 directions machining, multi cavities machining, circle orbiting, square orbiting, internal / external spherical machining, 45° depress corner machining, any angle orbiting, XY, XZ, YZ, X, Y, Z plane machining.
- 3 axes linear machining. 2 axes machining, helical machining electrode compensation.
- Contouring machining (GM code)
- Auto mechanical origin, internal / external center finder, auto edge finder & single axis center finder.
- English / Chinese selectable, inch / metric, flushing speed setting, auto self-diagnose.
- Intelligent arcing sensor and auto adjust the parameters to ensure best performance.
- Maximum 999 steps machining.
- Digital dual voltage (high / low voltage) currents being synchronously. discharged to ensure faster metal removal rate, low electrode wear ratio and uniform surface finish.



Conversational programming for easy learning and operation. Clear concise and well organized display.

