

MACHINE



CM 380+50MH/MP



CM 240R+50MH/MP



CM 545+75MH/MP



CM 420+75MH/MP
(X,Y ballscrew)



CM 655(DMS)+75MH/MP

SPECIFICATIONS

MACHINE	UNIT	CM240R	CM380	CM420	CM545	CM655
Work table size (WxD)	mm/inch	500x350/ 19.7x13.8	650x400/ 25.6x15.7	700x400/ 27.6x15.7	800x500/ 31.5x19.7	1000x600/ 39.4x23.6
Table travel (X, Y)	mm/inch	300x200/ 11.8x7.9	400x300/ 15.7x11.8	450x350/ 17.9x13.8	500x400/ 19.7x15.7	600x500/ 23.6x19.7
Work tank (WxDxH)	mm/inch	820x500x300/ 32.3x19.7x11.8	1050x600x300/ 41.3x23.6x11.8	1120x650x360/ 44.09x25.59x14.1	1250x700x500/ 49.2x27.6x19.7	1500x800x500/ 59.0x31.5x19.7
Ram servo travel (Z1)	mm/inch	200/7.9	200/7.9	200/7.9	500/19.7	500/19.7
Work head travel (Z2)	mm/inch	200 (Manual) /7.9	200(Manual)/7.9	200(Manual)/7.9	*	*
RAM platen to work table	mm/inch	160-560/ 6.29-22.04	200-600/ 7.9-23.6	250-650/ 9.8-25.59	200-700/ 7.9-27.5	250-750/ 9.8-29.5
Max. electrode weight	kg/lbs	60/132.3	70/154.3	80/176.3	300/661.4	300/661.4
Max. workpiece weight	kg/lbs	500/1102.3	750/1653.5	950/2094.4	1500/3306.9	2250/4960.3
Outside dimensions (WxDxH)	mm/inch	1300x1300x2220 /51.2x51.2x87.4	1400x1340x2170 /55x52.7x85.4	1470x1360x2170/ 57.8x53.5x85.4	1600x1600x2620 /63x63x103.1	1860x1700x2750 /73.2x66.9x108.2
Weight of machine unit	kg/lbs	1000/2204.6	1400/3086.4	1550/3417.1	3200/7054.7	3500/7716.1

POWER SUPPLY		50MH/MP	75MH/MP	100MH/MP	125MH/MP
Max. machining current	A	50	75	100	125
Total power input	KVA	4	5	8	10
Max. metal removal rate	mm ³ /inch ³	350/0.021	550/0.034	700/0.043	900/0.055
Electrode wear ratio	%	0.2	0.2	0.2	0.2
Best surface roughness	umRa	0.45	0.45	0.45	0.45
Outside dimensions (WxDxH)	mm/inch	540x470x1720 /21.2x18.5x67.7	540x470x1720 /21.2x18.5x67.7	450x470x1650 +450x470x1650 /17.7x18.5x65 +17.7x18.5x65	450x470x1650 +450x470x1650 /17.7x18.5x65 +25.2x19.3x70.9
Weight	kg/lbs	180/396.8	220/485	360/739.7	400/881.8

DIELECTRIC		D323	D434	D545	D655
Capacity	l/gal	280/61.6(UK) /74.0(US)	390/85.8(UK) /103(US)	600/132.0(UK) /177.7(US)	1100/220.2(UK) /291.1(US)
Filter method	Paper-filter	2	2	4	4
Pump	HP	0.5	0.5	0.5x2	0.5x2
Net Weight	kg/lbs	Built in	80/176.3	110/242.5	160/352.7
Outside dimensions (WxDxH)	mm/inch	Built in	1400x800x430 /55.1x31.4x16.9	1200x600x500 +1200x600x500 /47.2x23.6x19.7 +47.2x23.6x19.7	1500x760x500 +1500x760x500 /59.1x29.9x19.6 +59.1x29.9x19.6

※ Note : The manufacturer reserves the right to modify the design, specifications, mechanisms.....etc. to improve the performance of the machine without notice, all the specifications shown above are just for reference.



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S5B-0003E



CHMER EDM

Electric Discharge Machine MH/MP SERIES



Rising Star Award



National Award



IT'S VERY WELL
MADE IN TAIWAN



CM 240R+50MH/MP

CHING HUNG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD.

THE FIRST ISO 9002 CERTIFIED EDM MANUFACTURER IN TAIWAN

FEATURES

■ MACHINE UNIT:

- High rigidity machine frame and bed.
- Ribs are provided for extra strength.
- Employing high-grade cast iron for the bed, column and ribs, to assure best durability, stability and accuracy when in operation.
- Ram mounted in high precision linear roller guide way.
- All sliding surface is thermally ground and heat treated.
- The X, Y axis of worktable is coated with Turcite-B and equipped with ground leadscrew (or ballscrew), enabling smooth travelling and accurate positioning.

POWER SUPPLY UNIT

- Power supply unit consists of modular PC boards adopting IC and high-rating/high-frequency transistors, characterized by low defectiveness, high efficiency, easy maintenance and simplified repair.
- High-Low Voltage Superimposed circuit design is adopted to stabilize the electric current and discharging pulse, which in turn can raise machining efficiency and speed.
- Pulse Width Modulation (P.W.M) DC servo motor can save energy, raise machining efficiency, lower maintenance expense.
- Automatic Anti-Arc detector can prevent residue such as metal and carbon particles from depositing thus protect workpiece from damaging.
- From rough to fine machining, there are total 24 channels for both Pulse-Off. With Pulse-On time remains unchanged, the machining condition can be altered by adjusting Pulse-Off time alone. This wide application range makes CHMER EDM suitable for high-speed machining while with minimum electrode wear and desirable surface finishing.

MECHANIC STRUCTURE

■ MACHINE HEAD:

- Adopting linear roller guide way (imported from Switzerland or Japan) of high rigidity and high accuracy.
- Screw shaft is positioned in the center of quill so as to get the best driving and workload durability.
- Intergrally Z1 and Z2 axis design for disfigurement-proof and higher precision.

■ X, Y AXIS:

- In general, the sliding surface of X, Y axis is coated with low friction coefficient Turcite-B (teflon) which will remain best accuracy even under heavy workload. Roller slide way is used on certain models and ballway is employed on NC & CNC models in particular.
- X, Y axis are equipped with precision, zero-gap leadscrew/or ballscrew. Because of the extremely low rolling friction, that minimizes the wear is minimized to assure the accuracy in positioning and smooth in travelling.
- For bigger models, X axis adopts THK roller guide way (made in Japan), Y axis adopts Scheneberger slide way (made in Swiss), which is Subzero-treated, high rigidity and disfigurement-proof.

■ MACHINE BASE:

- The cabinet-link machine base is made of high-rigidity cast iron, inspected under restrict QC system to assure its precision and disfigurement-proof.

MH/MP 2 MODELS AVAILABLE

HIGH-PERFORMANCE POWER SUPPLY :

- Two series are available in chmer manual EDM.

MH SERIES:

- Modulized power supply simplifies trouble shooting and maintenance process.

MP SERIES:

- High efficient power supply facilitates working.



MP SERIES:
• Front view



MP SERIES:
• Back side



MH SERIES:
• Front view

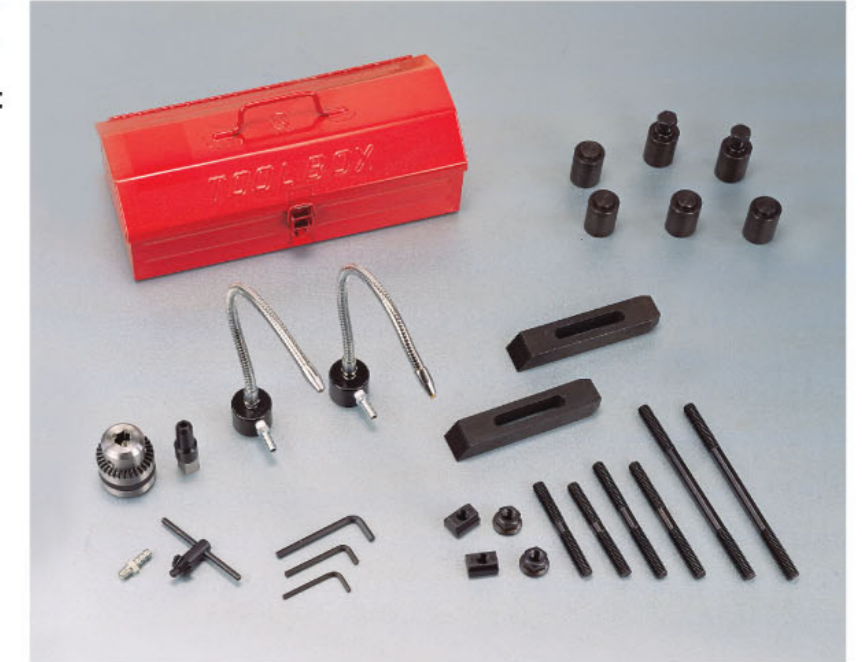


MH SERIES:
• Back side

ACCESSORIES

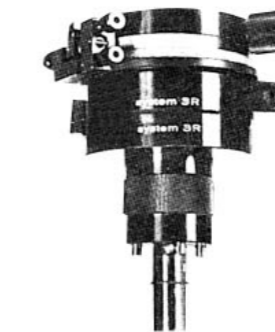
■ STANDARD ACCESSORIES:

- Paper filter -----1 set
- Tool box -----1 set
- Clamping kits -----1 set
- Flushing nozzle -----2 sets
- Machine stand -----1 set
- Drill chuck -----1 set
- Electrode holder -----1 set
- Halogen work lamp -----1 set



■ OPTIONAL ACCESSORIES:

- System 3R



• Orbit cut

- Digital Readouts



• Fire extinguisher