

# Electrical Discharge Machining (EDM)

## What is Wire EDM machining?

Wire EDM machining (Electrical Discharge Machining) is an electro thermal production process where a thin single strand metal wire, along with de-ionised water (used to conduct electricity) allows the wire to cut through metal by the use of heat from electrical sparks, while preventing rust.



**CNC EDM WIRE CUT MACHINE**

Model	Unit	PEWC H25	PEWC H35	PEWC H40	PEWC H45	PEWC H40J	PEWC H50	PEWC H50J	PEWC H63
Working Table Size X-Y	mm	580 x 400	580 x 400	580 x 400	580 x 400	580 x 400	580 x 400	580 x 400	580 x 400
Table Travel	mm	320 x 250	320 x 250	320 x 250	320 x 250	320 x 250	320 x 250	320 x 250	320 x 250
Max. Z Axis Travel	mm	350	350	350	350	350	350	350	350
Max. Work Piece Weight	Kg	250	250	250	250	250	250	250	250
Max. Cutting angle	°	3°	3°	3°	3°	3°	3°	3°	3°
Cutting Speed	mm2/min	Standard : 90, High Speed : 140							
Position Accuracy	mm	0.015 / 300							
Repeatability	mm	0.01							
Wire Moving Speed	m/s	11.5							
Net Weight	Kg	900	1,200	1,350	1,350	1,400	2,100	2,300	3,000
Power	Kw	3 Phase 400VAC /50 Hz (Less than 1Kw)							



**EDM Drilling Machine**

- Drilling diameter from  $\varnothing 0.3$  mm to  $\varnothing 3.0$ mm.
- The maximum depth ratio could be 300:1
- Auto depth control, blind hole can also be making
- Precision (Hole straightness) is less than 0.04mm
- Can Drill on oblique and curved surface directly

EDM Consumables	EDM Spares
EDM Oil	Guides
Brass / Coated Wire	Ceramic Nozzle
Molybdenum Wire	Single / Double End Roller
WEDM Gel – JR3	Spring Type Wire Tension
Graphite	PCB Cards & Boards
Copper / Brass Electrode	Electrical Controller
Diamond Guides	Software's
Resin	Servo Motors
Minerals	Drives
Carbides	Bellows
Filters	

- Digital readout 3 axis (X, Y, Z)
- Fast processing speed and low show consumption
- Can use water coolant, low cost and no pollution
- It can possible to depth control
- Can use high pressure pump