

mecsus.com

**BEYOND  
DEFINITE  
VISION**

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**mec**<sup>®</sup>  
**SUS**  
WIRE EDM  
TECHNOLOGY





## HIGH PRECISION WIRE EDM TECHNOLOGY

## about us

MECSUS Wire EDM Technology stands as a powerhouse in India's precision engineering landscape, recognized as one of the most trusted and forward-thinking brands in Wire EDM solutions. With a strong reputation built on uncompromising quality, advanced innovation, and customer-centric service, MECSUS has become the preferred choice for industries that demand absolute precision and reliability.

From mold and die manufacturers to aerospace and automotive specialists, from high-performance toolmakers to medical device innovators—MECSUS Wire EDM machines play a crucial role in enabling complex, high-accuracy manufacturing across diverse industrial sectors.

Every MECSUS Wire EDM machine is crafted using state-of-the-art technology and engineered to deliver exceptional performance. Our systems are renowned for their micron-level accuracy, consistent precision, robust durability, and intelligent control systems that simplify even the most challenging machining tasks. Designed with operators in mind, MECSUS machines offer intuitive interfaces, smooth operation, and reliability that stands the test of time.

What truly sets MECSUS apart is our commitment to long-term partnerships with our customers. We believe that great machines must be supported by equally great service. Our team of highly skilled engineers and technicians provides expert installation, hands-on training, and round-the-clock technical support to ensure uninterrupted productivity. Additionally, our extensive inventory of genuine spare parts and accessories ensures quick availability and minimized downtime.

At MECSUS, innovation is not just a feature—it's our foundation. We continuously evolve our technology, adapt to industry needs, and invest in research so that our customers always stay ahead in an increasingly competitive manufacturing world.

**MECSUS Wire EDM Technology - BEYOND DEFINITE VISION**

# HF450CB/500CB

TWO-STAGE AUTOMATIC TENSION SYSTEM WITH BIDIRECTIONAL CONTROL (PATENT)

## 5 AXIS

CNC SERVO MOTOR  
LINEAR GUIDE RAIL  
BALL SCREW

"HEAT PUMP" FOR HEAT DISSIPATION (PATENT)

HIGH STABILIZING PRECISION



## TECHNICAL SPECIFICATION

FEATURES	HF450CB	HF500CB
Worktable Size	950×640 mm	950×660 mm
Worktable Stroke	450×320 mm	500×400 mm
Maximum Cutting Thickness	350 mm	350 mm
Max Taper Angle	±12°	±12°
Maximum Load Weight	400 kg	600 kg
Net Weight	2100 kg	2500 kg
Machine Size	1760x1410x2030 mm	1870x1480x2030 mm
Cutting accuracy	up to ±0.005	up to ±0.005
Roughness	Upto Ra 0.6um	Upto Ra 0.6um
Maximum Cutting Speed	Upto 220 mm <sup>2</sup> /min	Upto 220 mm <sup>2</sup> /min
Wire Diameter	Standard 0.18 mm	Standard 0.18 mm
Input Voltage	Three - Phase AC 380V 50Hz	Three - Phase AC 380V 50Hz
Input Power	3.5kw	3.5kw

# F - TYPE SERVO SERIES

AUTOCUT  
INTELLIGENT PULSE  
WAVEFORM CONTROL  
DIGITAL SERVO TRACKING

GRAPHICAL  
INTERFACE TO  
PROCESSING INTERFACE  
SUPPORTS ISO AND CAD  
CODE COMPATIBILITY

REAL-TIME PROCESSING  
TRAJECTORY DISPLAY  
4-AXIS LINKAGE FOR  
TAPERED AND COMPLEX  
SHAPES



## TECHNICAL SPECIFICATION

FEATURES	HF 300	HF 400	HF 500S	HF 500E	HF 630	HF 800	HF 1000
<b>Worktable Size (MM)</b>	690X458	820X568	910X588	1134X712	1134X850	1334X850	1550X1140
<b>Worktable Stroke (MM)</b>	350X450	450X550	500X630	500X800	630X800	800X1000	1000X1200
<b>Max Cutting Thickness</b>	350	350	350	600	600	600	600
<b>Max Taper Angle</b>	±6°	±6°	±6°	±6°	±6°	±6°	±6°
<b>Max Load Weight (KG)</b>	up to 600	up to 800	up to 1000	up to 1200	up to 1400	up to 1800	up to 2100
<b>Net Weight (KG)</b>	up to 1400	up to 1800	up to 2000	up to 2600	up to 3200	up to 3700	up to 4500
<b>Machine Size (MM)</b>	1400X 1340 X 1700	1650X 1610X1700	1720X 1720X1700	2050X 2174X2100	2150X 2150X2100	2300X 2150X2100	2700X 2500X2200
<b>Cutting accuracy</b>	up to ±0.01 MM						
<b>Roughness</b>	Multiple cuts Ra up to 1.0um /min						
<b>Max Cutting Speed</b>	up to 220 mm <sup>2</sup> /min						
<b>Wire Diameter</b>	Standard 0.18 mm						
<b>Input Voltage</b>	Three - Phase AC 380V 50Hz						
<b>Input Power</b>	≤0.8 kw						

# ECONOMY SERIES



Model	Work Table Size (mm)	Work Table Travel (mm)	Max Machine Thickness (mm)	Max Machine Taper	Processing Load Weight	Host Weight (kg)	Outward Size of Main Engine (L*W*H)
DK 7720	420*270	250*200	300	6	up to 100	up to 700	1500*1000*1700
DK 7725	520*280	350*250	300	6	up to 150	up to 900	1500*1050*1800
DK 7735	630*380	450*350	400	6°/45°/80mm (O)	up to 250	up to 1200	1700*1130*1800
DK 7745	850*580	450*550	400	6°/45°/80mm (O)	up to 400	up to 1400	1900*1300*1800
DK 7750	960*680	500*630	500	6°/45°/80mm (O)	up to 500	up to 1650	2100*1550*2000
DK 7763	1170*780	630*800	600	6°/45°/80mm (O)	up to 650	up to 1850	2250*1800*2300
DK 7780	1350*980	800*1000	800	6°/45°/80mm (O)	up to 800	up to 2100	2400*2300*2500
DK 77100	1600*1150	1000*1200	1000	6°/45°/80mm (O)	up to 1000	up to 2350	2500*2300*2500
DK 77120	1900*1500	1200*1400	1200	6°/45°/80mm (O)	up to 1200	up to 2600	3800*3800*2700

# CNC EDM DRILL MACHINE

ITEM	UNIT
X/Y Workbench Dimensions	380 x 500 mm
X/Y/Z axis machining stroke	350x450x450 mm
Machine dimensions	1250x1400x2100 mm
Spindle servo stroke	360 mm
Maximum load	300 kg
Clamping electrode diameter	Ø0.3~Ø3.0 mm
Maximum processing current	30A
Machine power	3.6 (KVA)
Maximum perforation speed	30-60 mm/min (depending on material)
Maximum perforation thickness	400 mm
positioning accuracy	≤±0.02 mm (100mm)
Minimum movement equivalent of workbench	0.001 mm
Working fluid tank capacity	25L
Machine weight	500kg
Three axis control form	Numerical control
Three axis drive form	Subdivision hybrid motor
XYZ three-axis guide rail	Linear guide rail
Handheld unit	Manual control box
Digital display	3 axis digital display



# EDM DRILL MACHINE

## PARAMETERS OF D704

ITEM	UNIT	D704
Electrode diameter	mm	Ø0.3-Ø3.0
Spindle stroke	mm	280
Stroke of spindle servo	mm	300
Max spindle speed	mm/mm	120
C axis speed	rpm	20-30
Workable size	mm	320x430
X-Y stroke	mm	300x400
Max distance from guider to table	mm	330
Height of worktable	mm	920
Max working current	A	30
max input power	kw	3
Power supply	V/Hz	3N~380V/50HZ
Max work fluid pressure	Mpa	6
Machine size (LxWxH)	mm	1000x1000x1950
Weight	Kg	600



# XP 20 CNC TOOL GRINDER

MILLING CUTTER | BALL NOSE CUTTER  
 DRILL BIT | CHAMFER CUTTER  
 ROUND NOSE CUTTER (CR CUTTER)

## PRODUCT SPECIFICATIONS

Machine Size  
**582 mm (Length) X 400 mm (Width) X 720mm (Height)**

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Machine Weight  
**53 KG**

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Total Power Consumption  
**0.75 KW single phase power supply**

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Daily Production Capacity  
**200 - 300 Cutter**

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Grinding Wheel Speed  
**3500 - 5000 RPM**

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Grinding Wheel Lifespan  
**800 to 1000 Cutter (8 and 10mm milling Cutter)**

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Machine type - CNC

