

DF450S

SINGLE-AXIS MIRROR ZNC EDM MACHINE



Ra
0.28

High-gloss mirror circuit (Best surface finish) Ra0.28

Ra
0.15

Best surface finish with orbital head Ra0.15

450
mm³/min

Max. machining speed
450 mm³/min

HPX-T45

MIRROR EDM MACHINE



Ra
0.1

High-gloss mirror circuit (Best surface finish) Ra0.1

500
mm³/min

Max. machining speed
500 mm³/min

TECHNICAL PARAMETERS

ITEM	Unit	DF450S	DF540S	DF650S
X/Y/Z Axis Working Travel	mm	450*350*200	500*400*220	600*500*220
Working Oil Tank Size (L×W×H)	mm	1060*650*440	1160*690*500	1320*800*500
Table Size (L×W)	mm	700*400	800*450	900*500
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.28	0.28	0.28
Best Surface Finish With Orbital Head	Ra	0.15	0.15	0.15
Max. Machining Speed	mm ³ /min	450	450	450
Min. Electrode Loss	%	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	200-500	200-600	300-700
Max. Electrode Load Capacity	Kg	100	150	150
Max. Worktable Load Capacity	Kg	900	1000	1000
Machine Weight (Including Oil Tank)	Kg	1460	1650	2000
Machine Dimension (L×W×H)	mm	2900*1350*2150	3300*1600*2420	3500*2250*2480

TECHNICAL PARAMETERS

ITEM	Unit	HPX-T45
X/Y/Z Axis Working Travel	mm	450*350*300
Working Oil Tank Size (L×W×H)	mm	850*600*380
Table Size (L×W)	mm	700*400
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.1
Max. Machining Speed	mm ³ /min	500
Min. Electrode Loss	%	0.1
Distance From Electrode Tip To Table	mm	100-400
Max. Electrode Load Capacity	Kg	50
Max. Worktable Load Capacity	Kg	400
Machine Weight (Including Oil Tank)	Kg	2500
Machine Dimension (L×W×H)	mm	1780*2500*2500

HPX-800

SINGLE HEAD EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra 0.13



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-500	HPX-600	HPX-800	HPX-1200	HPX-1400
X/Y/Z Axis Working Travel	mm	500*400*300	650*400*350	850*500*400	1200*600*500	1400*700*500
Working Oil Tank Size (L×W×H)	mm	1300*880*540	1600*900*580	1800*1000*600	2200*1150*570	2550*1300*700
Table Size (L×W)	mm	800*500	900*500	1100*600	1300*800	1500*900
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.13	0.13	0.13	0.13	0.13
Max. Machining Speed	mm ³ /min	500	500	500	500	500
Min. Electrode Loss	%	0.1	0.1	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	700	750 (850 Opention)	900	500-950	690-1190
Max. Electrode Load Capacity	Kg	120	150	180	180	400
Max. Worktable Load Capacity	Kg	1800	2000	3000	3500	5000
Machine Weight (Including Oil Tank)	Kg	3000	3700	5000	6000	8000
Machine Dimension (L×W×H)	mm	2300*2770*2650	2040*2320*2530	2280*2600*2690	2600*3065*3100	3500*4400*3310

HPX-1800II

DOUBLE HEAD EDM MACHINE



High-gloss mirror circuit (Best surface finish) Ra 0.13



Max. machining speed 500 mm³/min

■ TECHNICAL PARAMETERS

ITEM	Unit	HPX-1200II	HPX-1400II	HPX-1800II
X/Y/Z Axis Working Travel	mm	600*500*400	850*700*450	1200*800*600
Working Oil Tank Size (L×W×H)	mm	2000*1250*600	2250*1300*700	3500*1800*650
Table Size (L×W)	mm	1300*600	1500*900	2000*1000
High-Gloss Mirror Circuit (Best Surface Finish)	Ra	0.13	0.13	0.13
Max. Machining Speed	mm ³ /min	500	500	500
Min. Electrode Loss	%	0.1	0.1	0.1
Distance From Electrode Tip To Table	mm	550-1000	600-1150	600-1200
Max. Electrode Load Capacity	Kg	180	400	450
Max. Worktable Load Capacity	Kg	3500	4000	6500
Machine Weight (Including Oil Tank)	Kg	7000	8700	14000
Machine Dimension (L×W×H)	mm	3530*3400*3370	3800*3650*3430	3890*4400*3590

CORE CONFIGURATION

Standard Configuration



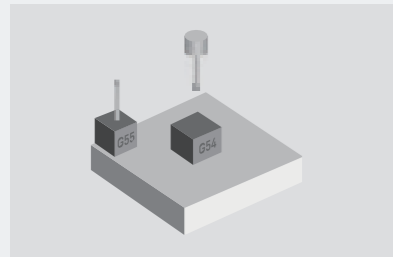
◆ Intelligent Expert System



◆ Metal keyboard



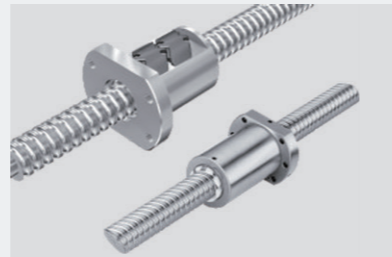
◆ Multi-function hand control box



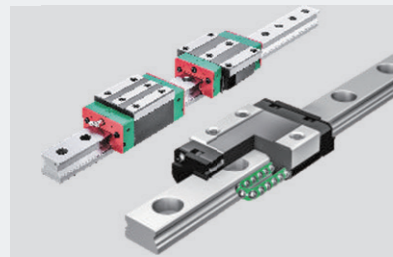
◆ Multi position automatic centering



◆ Panasonic servo motor and drive



◆ Taiwan HIWIN or Japan THK screw



◆ Taiwan HIWIN or Japan THK guide rail



◆ Electrode clamp



◆ Fine grained permanent magnet suction cup

Optional Configuration



Table top four axis



EROWA fixture



Oil cooler



C axis



Movement head



Voltage stabilizer



Electrode library

SUPERIOR PERFORMANCE



Linux industrial level operating platform, free from copyright restrictions.



Large 64GB memory for storing more data.



Built-in core database, icon display, easy to operate.



Cluster networking, with convenient management.



Remote assistance, one-touch calling and immediate response.



Touch operation

Configuration

- ◆ 19" touch capacitive display
- ◆ Industrial level metal keypad + touchpad
- ◆ Multi-function hand control box (automatic contact counting, clearing, 1/2 and coordinate system switching)

Circuit

- ◆ High-gloss mirror circuit (best finish Ra0.1)
- ◆ Ultra low loss circuit
- ◆ Ultra cemented carbide circuit
- ◆ Small current finishing circuit, minimum IP0.1
- ◆ Graphite circuit

Machining Module

- ◆ Deep bone position machining module
- ◆ Large area machining module
- ◆ Screw machining module
- ◆ Helical gear machining module (C-axis needs to be equipped)

Other Functions

- ◆ Support five-axis linkage
- ◆ Minimum drive 0.0001mm
- ◆ Accidental power-off protection system (accidental power-off machining coordinate memory protection)
- ◆ Anti-carbon buildup, arc release and automatic cleaning of machining surface
- ◆ The maximum movement speed of the screw is 5m/min

FEATURES

- ◆ Externally connect the electrode library of the Robot.
- ◆ The X/Y/Z three-axis adopts Japanese THK screw and Japanese Panasonic absolute servo motor, ensuring the strong performance of the machine tool μ-grade high precision, and the precision stability and retention in long-term use.
- ◆ The column adopts a one-stage structure, which makes the Z axis more rigid and allows for easy and flexible processing of heavy-duty electrodes.
- ◆ Immersion processing is adopted, to effectively ensure processing accuracy and surface finish.
- ◆ The whole machine adopts centralized lubrication, providing uniform lubrication on all rail surfaces, with smooth and long-lasting axial movement accuracy.
- ◆ Complete peripheral facilities, such as automatic fire extinguishing devices and surface sensing devices for processing fluids, to provide a safe environment.
- ◆ The body is made of FC30 cast iron, which has undergone high-temperature annealing and natural aging treatment.



Electrode library combination

TECHNICAL PARAMETERS OF ELECTRIC CONTROL BOX

ITEM	Unit	HPS-T750
Maximum machining current	A	75
Best surface finish (Ra)	μm	0.07
Minimum electrode loss	%	0.1
Maximum machining speed	mm ³ /min	800
Net weight	Kg	350
Power (individual electrical box)	KW	15
Overall size (L×W×H)	mm	550×1800×1950