KAAST

S-EDM CNC / Z-EDM

3025 | 4030 | 5847 | 6050 | 8050 | 13070 | 22070 | 30070

CNC Sinker EDM

STANDARD CONFIGURATION

- CNC Controller
- 15” TFT LCD Monitor
- Integrated Industrial Keyboard
- X/Y/Z-Axis Linear Scales
- Stainless Steel Water Tank w/ Paper Filter Unit
- Automatic Fire Extinguishing System
- Electrodes - “Quick-Change” - Inclusion
- Collet Chuck
- Tool Kit and Work Light

OPTIONAL CONFIGURATION

- ATC 4, 6 or 16 Tools
- C-Axis (Orbital Head 3R or EROWA)
- Oil / Air Cooling
- Magnetic Table
- Electrical Handwheel (MPG)

The S-EDM provides advanced multi-directional and sequential **erosion** capabilities, along wiith powerful flushing of the working area, resulting in faster processing, greater precision, and improved surface finish. Built on a durable **FC35-quality cast iron frame** with a reinforced worktable, it supports high-precision machining of even heavy workpieces. The system features **automatic lubrication** and a 3-Axis CNC setup, with all models also available as **ZNC versions (controlled Z-Axis only).** To increase electrode life, it automatically withdraws the electrode to prevent burn-off while optimizing spark discharge and gap. The database allows for quick access to cutting parameters across various materials, including hard metal alloys, copper, and steel. High machining accuracy is ensured through **precision guides**, **ball screws**, and **DC drives** in the main axes—sourced from top European and Japanese manufacturers.

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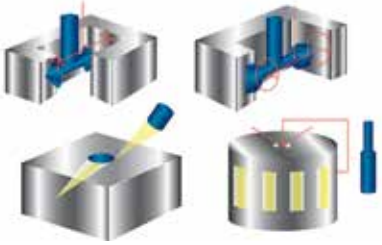
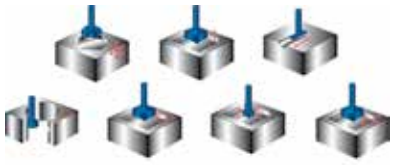
The system's compact design is paired with smart control features that boost efficiency. Operators can **edit technical parameters** during the erosion process and **program cuts during operation**, minimizing down-time. With **3D simulation** and **automatic cutting parameter calculation**, it ensures precise, optimized performance—all managed through a user-friendly **PC-based control system**.





S-EDM CNC / Z-EDM			3025	4030	5847	6050	8050	13070	20070	30070
			12" x 10"	16" x 12"	23" x 19"	24" x 20"	32" x 20"	51" x 28"	79" x 28"	118" x 28"
Axis Travel: X/Y	Z-EDM	mm	300x250 (12x10")	400x300 (16x12")	580x470 (23x19")	600x500 (24x20")	800x500 (32x20")	1300x700 (51x28")	2000x700 (79x28")	3000x700 (118x28")
	S-EDM	mm	280x230 (11x9")	380x280 (15x11")	580x470 (23x19")	600x500 (24x20")	800x500 (32x20")	1300x700 (51x28")	2000x700 (79x28")	3000x700 (118x28")
Travel Z		mm	150 (6")	185 (7")	250 (10")	400 (16")	400 (16")	590 (23")	590 (23")	590 (23")
Travel U		mm	150 (6")	230 (9")	450 (18")	–	–	–	–	–
Table dimensions		mm	600x300 (24x12")	650x350 (26x14")	1000x550 (39x22")	800x650 (32x26")	900x800 (35x32")	1400x950 (55x37")	1400x950 (55x37")	3100x1000 (122x39")
Max Workpiece Dim (L/W)		mm	750x500 (30x20")	1000x600 (39x24")	1600x1000 (63x39")	1400x970 (22")	1480x1050 (59x41")	2100x1150 (83x45")	3100x1400 (122x55")	4000x1450 (158x57")
Max Workpiece Dim (H)		mm	240 (9.4")	330 (13")	650 (26")	570 (22")	510 (20")	750 (30")	550 (22")	550 (22")
Dielectric Tank Capacity		l	300 (79 gal)	446 (118 gal)	1144 (302 gal)	1576 (416 gal)	970 (256 gal)	2370 (626 gal)	3153 (832 gal)	3500 (924 gal)
Max Electrode Weight		kg	100 (220 lbs)	120 (460 lbs)	300 (660 lbs)	300 (660 lbs)	300 (660 lbs)	500 (1,100 lbs)	500 (1,100 lbs)	500 (1,100 lbs)
Max Workpiece Weight		kg	800 (1,760 lbs)	1000 (2,200 lbs)	1600 (3,530 lbs)	2500 (5,500 lbs)	4000 (8,800 lbs)	5000 (11,000 lbs)	5000 (11,000 lbs)	10000 (22,000 lbs)
Dimensions (L/W)		mm	2655x1395 (105x55")	2825x1700 (111x67")	3870x2420 (152x95")	3450x2537 (136x100")	2210x2000 (87x79")	2880x2270 (113x89")	3180x2270 (125x89")	4390x2270 (173x89")
Dimensions (H)		mm	2260 (89")	2250 (89")	3010 (119")	2715 (107")	2550 (100")	2260 (89")	2180 (86")	2520 (99")
Weight		kg	1100 (2,425 lbs)	1300 (2,870 lbs)	2500 (5,510 lbs)	3200 (7,040 lbs)	4200 (9,260 lbs)	5600 (12,320 lbs)	6000 (13,200 lbs)	13000 (28,600 lbs)
Power Supply			SE 30	SE 50	SE 75			SE 100		
Max Processing Current		A	30	50	75			100		
Voltage		V	220		220			220		
		V	380		380			380		
Ttl Power Consumption		kVA	3	4.5	8			10		
Ttl Power Consumption		V	100		100			100		
Min Turn-On Time		msec	1		1			1		
Min Turn-Off Time		msec	1		1			1		
Max Metal Removal Speed		mm^3/min	320 (0.02 in^3)	480 (0.03 in^3)	720 (0.04 in^3)			1050 (0.06 in^3)		
Surface Roughness		Ra	0.2		0.2			0.2		
Min Electrode Consumption		%	0.2		0.3			0.4		
Weight		kg	200 (440 lbs)		300 (660 lbs)			330 (726 lbs)		
Item No.	Z-EDM		4730001	4730002	4730006	4730003	4730004	4730005	4730010	4730011
	S-EDM		4730012	4730013	4730007	4730014	4730015	4730016	4730017	4730018
	Power supply		0200198	0200199	0200200			0200201		

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