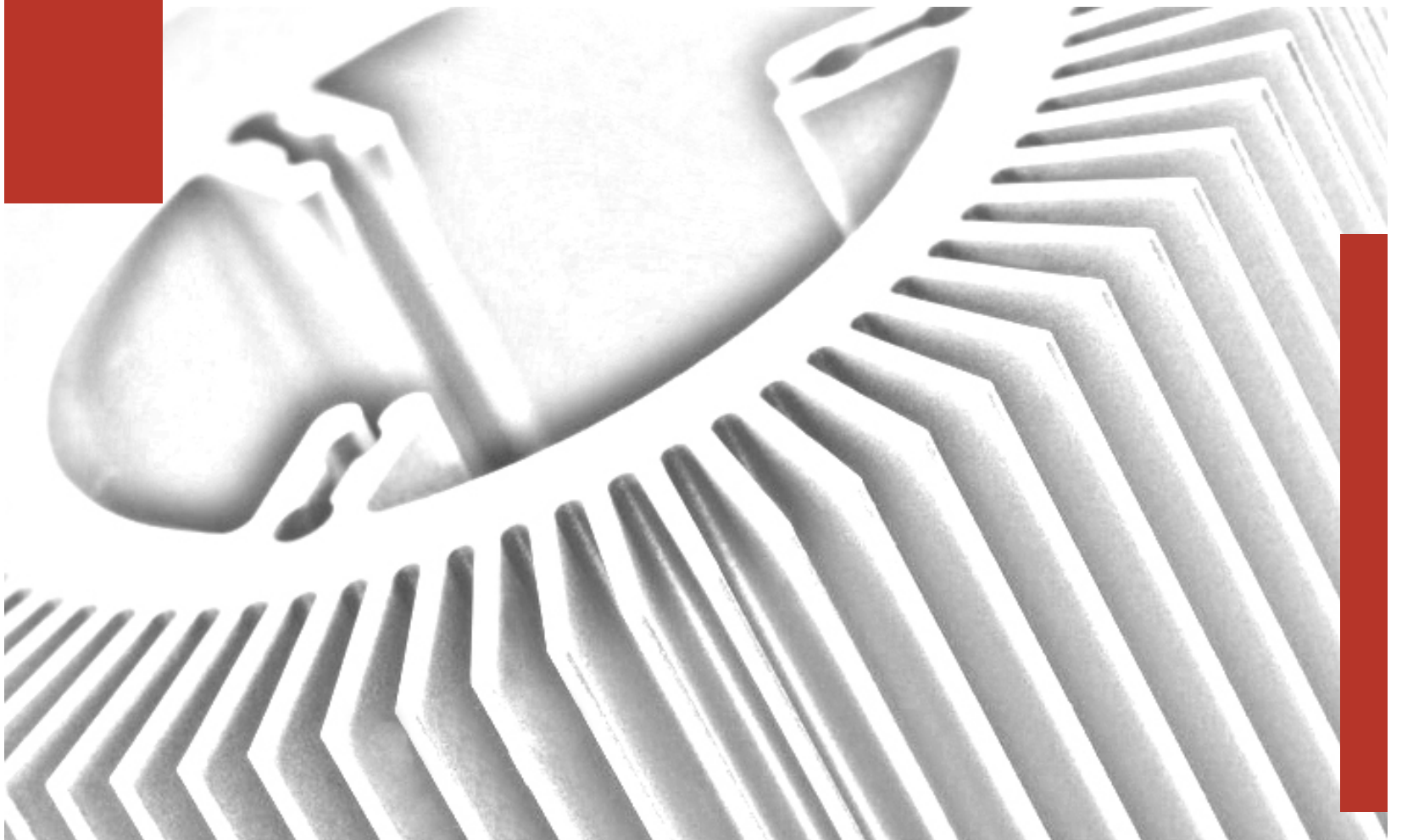




Electrical Discharge Machines

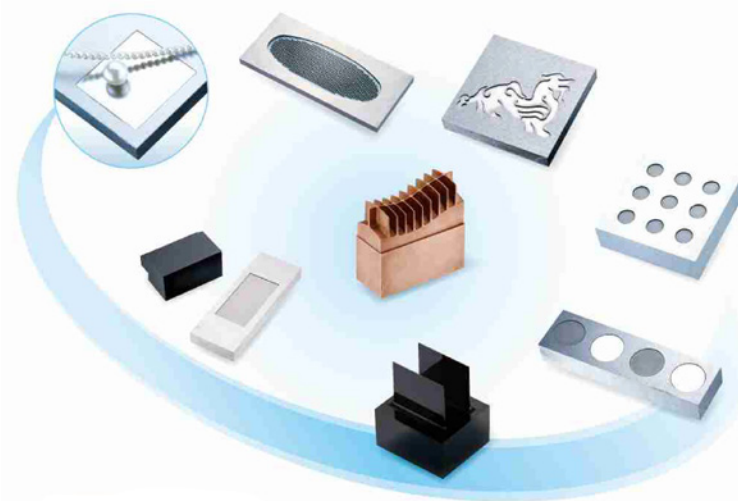
KEB Series

Product Catalog



www.kentusa.com

KEB Series EDM



Safety Features

1. Auto power shut-off when the oil level goes below the preset fluid level.
2. Auto power shut-off when fire is detected.
3. The auto-depth function can be set to retract and shut off the machine when the preset depth is reached.
4. In case of short circuit, the machine will automatically shut down to prevent damage or fire.
5. Fire detection provides additional protection with automatic fire extinguisher and automatic machine shutdown.

Special Type KEB

Optional "Super Sparking" feature available for machining tungsten carbide or hardened steel over HRC 50.

Features include:

1. Faster machining of hardened steel and carbide.
2. Flat electrode surface with lower wear.

KEB (ZNC) Machine Structure

1. Machine frames made of FC30 and heat treated for maximum rigidity. Stress relieved for enhanced frame accuracy.
2. The work table is hardened and precision ground for high precision operations.
3. Ball screws on X and Y axes (KEB-304B, KEB-606N, KEB-707B, KEB-808B).
4. One V and one flat design for maximum accuracy (KEB-304B, KEB-606N, KEB-707B, KEB-808B).
5. Coated with TURCITE-B on X and Y axes for smooth accurate motion.
6. Linear guideway and high accuracy screw on the Z axis with PWM servo system (same class as CNC model) for maximum performance and efficiency (KEB-304B, KEB-606N, KEB-707B, KEB-808B).
7. Back slide is provided for Z axis (KEB-304B, KEB-606N, KEB-707B, KEB-808B).
8. Designed for convenient filter replacement.
9. Remote control provided for ease of operation.



KEB SERIES CONTROL



1. User-friendly, easy-to-learn interface.
2. EDM parameters can be edited during machining. The equipped FUZZY control sets the parameters to optimize efficiency.
3. PC Based 32-Bit Industrial Level Computer (IPC) color LCD comes standard.
4. Chinese/English and Inch/Metric mode options available.
5. MOS-FET high power transistor and high speed POWER SINK are used for Spark Circuit Design.
6. Reduced electrode wear and increased working speed.
7. Card based modules are used for power controllers for easy maintenance.
8. FPGA (programmable) IC components are used for PULSE Circuit design in order to have faster spark monitor control (Single pulse detect) and ARC detect.
9. 2 groups of Coordinates can be watched and edited for setting the base point.
10. Operators are able to set absolute and relative depths.
11. Easy to read single screen displacement to monitor working progress.
12. Displays 200 lines of working progress. Operator can select any block as start and ending line. 50 sets of EDM parameters.
13. Four steps manual moving speeds (x5, x50, x250, X500 μ m).
14. Z-axis alignment without manual edge finding. Easier and faster edge finding.
15. Rough cut to fine finish can be done automatically during EDM process.
16. Standard Z-lock function. Orbiter can be used on this EDM machine.

KEB Series EDM



KEB-304B



KEB-606N



KEB-860N



KEB-1060N



KEB-707B



KEB-808B



KEB-1270N



KEB-1470N

KEB Series EDM



KEB-1675N



KEB-1880N



KEB-2210N-2H



KEB-2010N



KEB-2210N



KEB-3010N-2H

EB Series EDM

Specifications

	KEB-304B		KEB-606N		KEB-707B		KEB-808B		KEB-860N		KEB-1060N		KEB-1270N		KEB-1310N	
Capacity of work tank	850x530x340mm		1100x600x400mm		1170x700x430mm		1700x1000x550mm		1700x1100x615mm		1900x1100x615mm		2100x1250x620mm		2200x1700x700mm	
Work table size	600x300mm		700x400mm		800x450mm		1100x600mm		1200x700mm		1250x750mm		1350x820mm		1425x1100mm	
Longitudinal travel(X-axis)	300mm		400mm		500mm		700mm		800mm		1000mm		1200mm		1300mm	
Cross travel(Y-axis)	250mm		300mm		400mm		550mm		600mm		600mm		700mm		1000mm	
Z axis travel(Z-axis+W-axis)	150+200mm		180+250mm		200+300mm		250+300mm		500mm		500mm		500mm		500mm(Z-Axis)	
Distance between platen to table	160~510mm		210~640mm		240~740mm		250~830mm		420~920mm		420~920mm		510~1010mm		550~1050mm	
Max. Electrode weight	60kgs		100kgs		150kgs		250kgs		350kgs		350kgs		400kgs		450kgs	
Max. Work piece weight	500kgs		1000kgs		1500kgs		2000kgs		4000kgs		4500kgs		5000kgs		6000kgs	
Fluid tank capacity	330L		350L		550L		1250L		1570L		1750L		2100L		2200L	
Machine outside dimensions(WxDxH)	2100x1300x2000mm		2500x1500x2250mm		2800x1600x2250mm		3300x2000x2300mm		3600x3300x3200mm		4000x3500x3200mm		4600x3600x3250mm		4700x4500x3350mm	
Machine weight	1000kgs		1600kgs		2000kgs		3100kgs		5000kgs		5500kgs		6500kgs		9000kgs	
Max. Machining current	30A	60A(Optional)	60A	90A(Optional)	60A	90A(Optional)	60A	90A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)
Max. Power input	4KVA	7KVA	7KVA	10KVA	7KVA	10KVA	7KVA	10KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA
Max. Machining rate(mm ³ /min)	200	400	400	600	400	600	400	600	600	800	600	800	600	800	600	800
Min. Electrode wear ratio	0.15%		0.15%		0.15%		0.15%		0.15%		0.15%		0.15%		0.15%	
Best surface / Ra	Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm	
Min. D. R. O. resolution(mm)	0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm	
Generator weight	300kgs		320kgs		320kgs		320kgs		350kgs		350kgs		350kgs		350kgs	

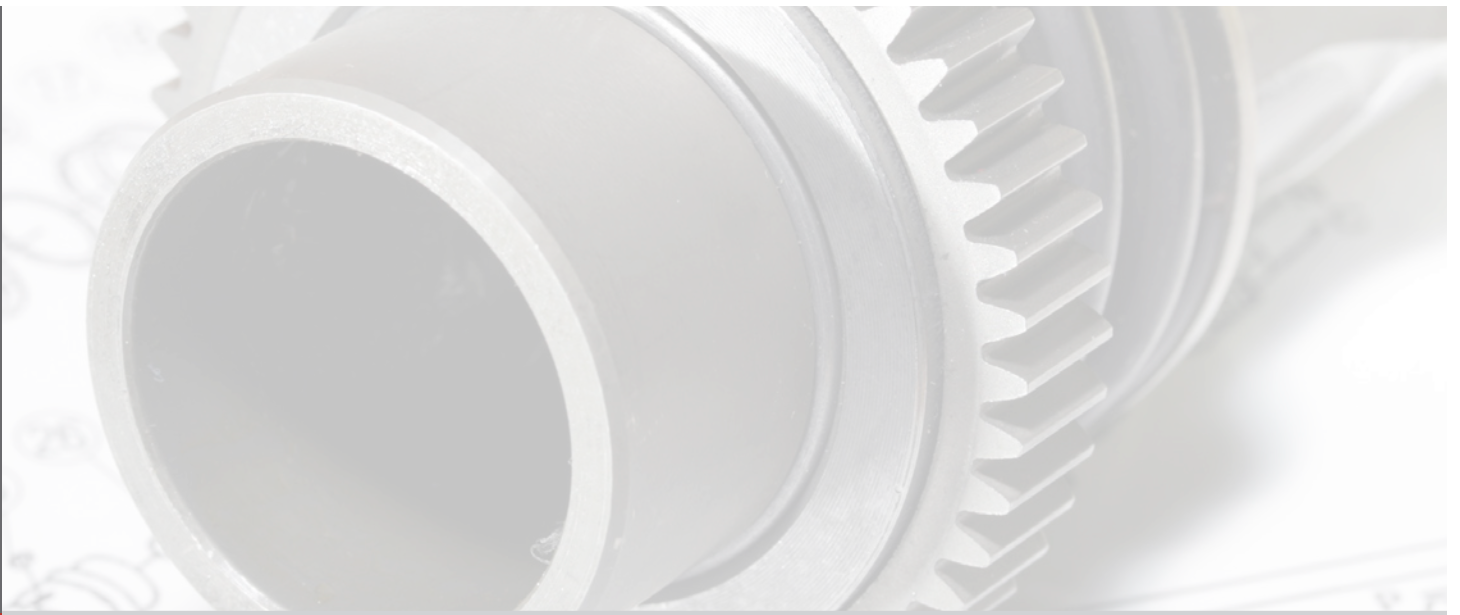
	KEB-1470N		KEB-1675N		KEB-1880N		KEB-2010N		KEB-2210N		KEB-2210N-2H		KEB-3010N		KEB-3010N-2H	
Capacity of work tank	2200x1320x620mm		2400x1320x620mm		2600x1320x700mm		2700x1600x700mm		2850x1600x740mm		3100x1700x800mm		4100x1700x800mm		4100x1700x800mm	
Work table size	1700x950mm		1800x950mm		1850x1000mm		2150x1100mm		2250x1100mm		2250x1100mm		3100x1100mm		3100x1100mm	
Longitudinal travel(X-axis)	1400mm		1600mm		1800mm		2000mm		2200mm		1550(SM)775(DM)mm		3000mm		2550(SM)1275(DM)mm	
Cross travel(Y-axis)	700mm		750mm		800mm		1000mm		1000mm		1000mm		1000mm		1000mm	
Z axis travel(Z-axis+W-axis)	500mm(Z-Axis)		550mm(Z-Axis)		600mm(Z-Axis)		600mm(Z-Axis)		600mm(Z-Axis)		600mm(Z-Axis)		600mm(Z-Axis)		600mm(Z-Axis)	
Distance between platen to table	550~1050mm		500~1050mm		450~1050mm		660~1260mm		660~1260mm		750~1350mm		750~1350mm		750~1350mm	
Max. Electrode weight	450kgs		450kgs		500kgs		500kgs		500kgs		500kgs		500kgs		500kgs	
Max. Work piece weight	6000kgs		6500kgs		7000kgs		9500kgs		9500kgs		10000kgs		14500kgs		16000kgs	
Fluid tank capacity	2300L		2600L		3000L		3800L		4150L		5100L		6550L		6550L	
Machine outside dimensions(WxDxH)	4700x3600x3250mm		5000x3800x3200mm		5200x4000x3200mm		6400x4500x3570mm		6500x4600x3570mm		7500x4600x3570mm		7000x4600x3620mm		8000x4600x3620mm	
Machine weight	8000kgs		8500kgs		9000kgs		12500kgs		13500kgs		15000kgs		18500kgs		21000kgs	
Max. Machining current	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	90A	120A(Optional)	120A	120A	120A	120A	120A	120A	120A	
Max. Power input	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	10KVA	13KVA	13KVA	13KVA	13KVA	13KVA	13KVA	13KVA	13KVA	
Max. Machining rate(mm ³ /min)	600	800	600	800	600	800	600	800	800	800	800	800	800	800	800	
Min. Electrode wear ratio	0.15%		0.15%		0.15%		0.15%		0.15%		0.15%		0.15%		0.15%	
Best surface / Ra	Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm		Ra 0.2 μm	
Min. D. R. O. resolution(mm)	0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm		0.005mm	
Generator weight	350kgs		350kgs		350kgs		350kgs		380kgs		380kgs		380kgs		380kgs	

Standard Accessories

1. Work head 
2. Tool box 
3. Work lamp 
4. Up/down door 
5. Automatic fire extinguisher 

Optional Accessories

1. CNC oblique loran 
2. Permanent magnetic chuck 
3. 3R clamping tool 



Delivering Quality, Value, & Service Since 1979



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