Electrical Discharge Machines
KEB Series

Product Catalog

www.kentusa.com
KEB Series EDM

Safety Features
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, X500μm).
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.

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.
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).
9. Remote control provided for ease of operation.

KEB SERIES CONTROL

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.

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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-2010N
- KEB-2210N
- KEB-2210N-2H
- KEB-2210N-2H
- KEB-3010N-2H
## Specifications

<table>
<thead>
<tr>
<th>KEB-304B</th>
<th>KEB-606N</th>
<th>KEB-707B</th>
<th>KEB-808B</th>
<th>KEB-860N</th>
<th>KEB-1060N</th>
<th>KEB-1270N</th>
<th>KEB-1310N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Capacity of work tank</strong></td>
<td>850x630x340mm</td>
<td>1100x600x400mm</td>
<td>1170x700x430mm</td>
<td>1700x1050x850mm</td>
<td>1700x1100x815mm</td>
<td>1900x1100x615mm</td>
<td>2100x1250x820mm</td>
</tr>
<tr>
<td><strong>Work table size</strong></td>
<td>600x300mm</td>
<td>700x400mm</td>
<td>800x450mm</td>
<td>1100x600mm</td>
<td>1200x700mm</td>
<td>1250x750mm</td>
<td>1350x820mm</td>
</tr>
<tr>
<td><strong>Longitudinal travel (X-axis)</strong></td>
<td>300mm</td>
<td>400mm</td>
<td>500mm</td>
<td>700mm</td>
<td>800mm</td>
<td>1000mm</td>
<td>1200mm</td>
</tr>
<tr>
<td><strong>Cross travel (Y-axis)</strong></td>
<td>250mm</td>
<td>300mm</td>
<td>400mm</td>
<td>550mm</td>
<td>600mm</td>
<td>600mm</td>
<td>700mm</td>
</tr>
<tr>
<td><strong>Z axis travel (Z-axis+X-axis)</strong></td>
<td>150+200mm</td>
<td>180+250mm</td>
<td>200+300mm</td>
<td>250+300mm</td>
<td>500mm</td>
<td>500mm</td>
<td>500mm</td>
</tr>
<tr>
<td><strong>Distance between platens to table</strong></td>
<td>160+510mm</td>
<td>210+640mm</td>
<td>240+740mm</td>
<td>250+830mm</td>
<td>420+920mm</td>
<td>420+920mm</td>
<td>510+1010mm</td>
</tr>
<tr>
<td><strong>Max. Electrode weight</strong></td>
<td>60kgs</td>
<td>100kgs</td>
<td>150kgs</td>
<td>250kgs</td>
<td>350kgs</td>
<td>350kgs</td>
<td>400kgs</td>
</tr>
<tr>
<td><strong>Max. Work piece weight</strong></td>
<td>500kgs</td>
<td>1000kgs</td>
<td>1500kgs</td>
<td>2600kgs</td>
<td>4000kgs</td>
<td>4500kgs</td>
<td>5000kgs</td>
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<tr>
<td><strong>Fluid tank capacity</strong></td>
<td>330L</td>
<td>350L</td>
<td>550L</td>
<td>1250L</td>
<td>1570L</td>
<td>1750L</td>
<td>2100L</td>
</tr>
<tr>
<td><strong>Machine outside dimensions (WxDxH)</strong></td>
<td>2100x1300x2000mm</td>
<td>2500x1500x2250mm</td>
<td>2800x1600x2250mm</td>
<td>3300x2000x2300mm</td>
<td>3600x3300x3200mm</td>
<td>4000x3500x3200mm</td>
<td>4600x3600x3250mm</td>
</tr>
<tr>
<td><strong>Machine weight</strong></td>
<td>2100kgs</td>
<td>1600kgs</td>
<td>2000kgs</td>
<td>3100kgs</td>
<td>5000kgs</td>
<td>5500kgs</td>
<td>6500kgs</td>
</tr>
<tr>
<td><strong>Max. Charging current</strong></td>
<td>30A</td>
<td>60A (Optional)</td>
<td>60A</td>
<td>90A (Optional)</td>
<td>60A</td>
<td>90A (Optional)</td>
<td>90A</td>
</tr>
<tr>
<td><strong>Max. Power input</strong></td>
<td>4kVA</td>
<td>7kVA</td>
<td>7kVA</td>
<td>10kVA</td>
<td>7kVA</td>
<td>10kVA</td>
<td>10kVA</td>
</tr>
<tr>
<td><strong>Max. Charging rate (mm/Min)</strong></td>
<td>200</td>
<td>400</td>
<td>400</td>
<td>600</td>
<td>600</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td><strong>Min. Electrode wear ratio</strong></td>
<td>0.15%</td>
<td>0.15%</td>
<td>0.15%</td>
<td>0.15%</td>
<td>0.15%</td>
<td>0.15%</td>
<td>0.15%</td>
</tr>
<tr>
<td><strong>Best surface / Ra</strong></td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
<td>Ra 0.2 µm</td>
</tr>
<tr>
<td><strong>Min. D. R. O. resolution (mm)</strong></td>
<td>0.005mm</td>
<td>0.005mm</td>
<td>0.005mm</td>
<td>0.005mm</td>
<td>0.005mm</td>
<td>0.005mm</td>
<td>0.005mm</td>
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<tr>
<td><strong>Generator weight</strong></td>
<td>300kgs</td>
<td>320kgs</td>
<td>320kgs</td>
<td>320kgs</td>
<td>350kgs</td>
<td>350kgs</td>
<td>350kgs</td>
</tr>
</tbody>
</table>

## 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