This is an epoch-making chuck that supports a distorted/warped workpiece with sticks to hold it in its natural state.

A series of operation from supporting a workpiece (raising the sticks) up to holding and securing the workpiece can be done quickly.

Each stick unit (workpiece support) can be removed easily for easy maintenance.

Model KEZF-WS

ACSHIM* FOR PRECISION CUTTING

[Application]
The sticks arranged at certain pitches enable precise setting of workpieces quickly in the machining sector including mold bases in dry milling operations.

[Features]
- The precision flatness machining time can be reduced by 50%.
- The turn-over process in machining is reduced from 3 ~ 4 steps to 2 steps.
- The use of sticks requires no skills to machine workpieces precisely.
- Workpieces of 3 mm distortion max. can be supported.
- Most suitable for milling plates that are 20 mm or thicker.

**Normal electromagnetic chuck**

Prior to holding

| Workpiece Support N pieces |

Holding → machining

Magnetic force released

Holding power tends to absorb warping of workpiece.

Absorbed warping of workpiece returns to original state.

Sticks support concave parts of workpiece.

**ACSHIM**

Prior to holding

| Workpiece Size 300 x 700 mm (Material SS400) |

Accuracy improvement by ACSHIM (Flatness)

Material After machining

<table>
<thead>
<tr>
<th>32t</th>
<th>22t</th>
<th>12t</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.2</td>
<td>0.4</td>
<td>0.6</td>
</tr>
<tr>
<td>0.8</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Note: Not guaranteed values.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Number of Sticks</th>
<th>Mass</th>
<th>Dedicated Control Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEZF-WS 3060</td>
<td>300 (11.8) x 600 (23.6)</td>
<td>600 (23.6)</td>
<td>310 (12.2)</td>
<td>30 (1.18)</td>
<td>15</td>
<td>130 kg/286 lb</td>
<td>EH-VFW205A</td>
</tr>
<tr>
<td>KEZF-WS 4080</td>
<td>400 (15.7) x 800 (31.5)</td>
<td>800 (31.5)</td>
<td>410 (16.1)</td>
<td>620 (24.4)</td>
<td>20</td>
<td>230 kg/507 lb</td>
<td>EH-VFW205A</td>
</tr>
<tr>
<td>KEZF-WS50100</td>
<td>500 (19.6) x 1000 (39.4)</td>
<td>1000 (39.4)</td>
<td>510 (20.0)</td>
<td>620 (24.4)</td>
<td>30</td>
<td>360 kg/793 lb</td>
<td>EH-VFW205A</td>
</tr>
<tr>
<td>KEZF-WS60100</td>
<td>600 (23.6) x 1000 (39.4)</td>
<td>1000 (39.4)</td>
<td>610 (24.0)</td>
<td>1020 (40.1)</td>
<td>40</td>
<td>430 kg/948 lb</td>
<td>EH-VFW210A</td>
</tr>
</tbody>
</table>
Model **KEZF-G**  
**ACSHIM* FOR GRINDING**

Arrangement of sticks for grinding operations realized!

[Application]
- Designed for grinding operations and milling operations requiring higher accuracy.

[Features]
- Deformation that occurs when light weight or thin workpieces are held can be reduced substantially.
- The amount of spring back after grinding is reduced, which contributes to improvement of finished surface accuracy.
- Wet grinding is possible.
- Workpieces of 3 mm distortion max. can be supported.
- Works well for relatively large workpieces or thin sheets (t12 or over).

---

Model **EH-VFW**  
**CONTROL UNIT FOR AC SHIM* FOR HIGH-PRECISION CUTTING/GRINDING**

Controls ACSHIM Series precisely by simple operation!

[Application]
- This is a dedicated unit equipped with functions to control the magnetic force of the ACSHIM and movement of sticks.

[Features]
- A series of operation can be performed automatically with the auto button on the operation box.
**Model KEZX**

**SUPER POWERFUL ELECTROMAGNETIC CHUCK WITH T-SLOTS**

A super powerful electromagnetic chuck having T-slots for heavy duty cutting. A range of workpieces that can be held has been expanded by a combination of a quick working magnet system and clamps by use of T-grooves.

As the mechanical clamping mechanism is incorporated, irregularly shaped workpieces and nonmagnetic workpieces that cannot be held by normal electromagnetic chucks can be held easily.

When clamping a nonmagnetic workpiece, such work as demounting the electromagnetic chuck from the machine table can be eliminated.

Model KEZX comes both in the flat type and vertical type.

**Features**

- Super powerful electromagnetic chuck specially designed for heavy duty cutting.
- Small and irregularly shaped workpieces can be held firmly by a combination of a magnet and clamping by use of T-slots.
- Since a nonmagnetic workpiece can be secured by clamping by use of T-slots, such steps as mounting and demounting the electromagnetic chuck to and from the machine table are not required.
- With the vertical type, effective usage of T-grooves with the magnetic force of the electromagnetic chuck reduced (or turned off completely) facilitates positioning of the workpiece or obtaining the reference plane.
- Workpieces having a small attractive face area can also be clamped firmly.

**Model KETZ**

**SUPER POWERFUL ELECTROMAGNETIC CHUCK**

Designed for heavy duty cutting by a milling machine and planomitter. Most suitable for powerful chucking of thick workpieces and high-speed cutting where a large cutting force is exerted.

**Features**

- Super powerful electromagnetic chucks specially designed for heavy duty cutting.
- Various measures provided for easy mounting, easy wiring and quick elimination of residual magnetism.
- Very effective holding power for workpieces that are 15 mm or thicker and sized 140×140 mm or larger.

---

### Table: KEZX-50100B

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Number of T-slots</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEZX-50100A</td>
<td>500×1(9.6) × 1000 (19.6)</td>
<td>500×1(9.6) × 1000 (19.6)</td>
<td>500×1(9.6) × 1000 (19.6)</td>
<td>500×1(9.6) × 1000 (19.6)</td>
<td>500×1(9.6) × 1000 (19.6)</td>
<td>242 (9.55)</td>
<td>200 (7.87)</td>
<td>18 (0.71)</td>
<td>500×1(9.6) × 1000 (19.6)</td>
</tr>
</tbody>
</table>

---

### Table: KETZ-2550B

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>No. of Poles</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Mounting Hole</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KETZ-1530B</td>
<td>150×0.99 × 300 (11.9)</td>
<td>150×0.99 × 300 (11.9)</td>
<td>226.87</td>
<td>90</td>
<td>350 (13.77)</td>
<td>18 (0.71)</td>
<td>4 (1.60)</td>
<td>0.45A</td>
<td>28kgf (61lb)</td>
<td>0.66A</td>
<td>63kgf (140lb)</td>
<td>@9A Series</td>
</tr>
</tbody>
</table>

---

*The power cord is 3 m for KETZ-1530B and 1545B and 5 m for others. If the magnetic force needs not be adjusted, use ES-M. Sizes not listed above are also available.

*The chuck controller and clamp parts are not included. The KANETEC chuck works best when a KANETEC chuck controller is used.

*The marks by are of duplex type. Please provide information such as a center connecting hole position. Also the terminal box TB-2PD is required for connection to the Chuck Master.
### Model KETN

**POWERFUL WAVEFORM ELECTROMAGNETIC CHUCK**

[Application]
A chuck for cutting by a milling machine, planomill, etc. The wavy pattern of the separator helps distribute the magnetic force uniformly over the whole attractive surface and increases the overall magnetic force. Thus, this is a general-purpose chuck for a wide range of cutting applications.

**Features**
- Electromagnetic chucks generating strong holding power specially for cutting operations.
- Specially designed to minimize influence of magnetism on cutters.
- For heavy-duty cutting, Model KETZ, super powerful electromagnetic chuck, is available, but this model has a wider application range that includes workpieces thinner than 15 mm, for which Model KETZ is not suitable.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Mounting Hole</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electric Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KETN-1530A</td>
<td>150 × 300 × 118</td>
<td>500 / 180</td>
<td>14 / 12 / 10</td>
<td>112 / 42 / 41</td>
<td>419 / 370</td>
<td>26 / 19 / 12</td>
<td>146 / 97.4</td>
<td>344 / 194.5</td>
<td>14</td>
<td>0.49A</td>
<td>27kg/59s</td>
</tr>
<tr>
<td>KETN-1545A</td>
<td>150 × 450 × 118</td>
<td>500 / 180</td>
<td>14 / 12 / 10</td>
<td>112 / 42 / 41</td>
<td>419 / 370</td>
<td>26 / 19 / 12</td>
<td>146 / 97.4</td>
<td>344 / 194.5</td>
<td>14</td>
<td>0.67A</td>
<td>49kg/90s</td>
</tr>
</tbody>
</table>

### Model KETN-U

**POWERFUL TILT TYPE ELECTROMAGNETIC CHUCK**

[Application]
Suitable for heavy-duty grinding and light-duty cutting of inclined surfaces of fixtures and metal molds.

**Features**
- Strong holding power.
- Easy mounting and an angle can be set as desired in a range of 90° forward and 90° backward.
- The rotary shaft with scale facilitates angle setting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Tilt Base</th>
<th>Length</th>
<th>Height</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electric Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KETN-1530U</td>
<td>150 × 300 × 118</td>
<td>500 / 180</td>
<td>14 / 12 / 10</td>
<td>112 / 42 / 41</td>
<td>419 / 370</td>
<td>26 / 19 / 12</td>
<td>146 / 97.4</td>
<td>344 / 194.5</td>
<td>14</td>
<td>0.49A</td>
<td>27kg/59s</td>
</tr>
<tr>
<td>KETN-1545U</td>
<td>150 × 450 × 118</td>
<td>500 / 180</td>
<td>14 / 12 / 10</td>
<td>112 / 42 / 41</td>
<td>419 / 370</td>
<td>26 / 19 / 12</td>
<td>146 / 97.4</td>
<td>344 / 194.5</td>
<td>14</td>
<td>0.67A</td>
<td>49kg/90s</td>
</tr>
</tbody>
</table>

*The power cord is 3 m for KETN-1530A and 1545A and 5 m for other models.*
*If the magnetic force needs not be adjusted, use ES-M.*
*The chuck controller and clamp part are not included. The KANETEC chuck works best when a KANETEC chuck controller is used.*
**ELECTROMAGNETIC CHUCKS**

**Model KESL**

LATERAL FINE PITCH ELECTROMAGNETIC CHUCK

[Application]
These are versatile electromagnetic chucks with poles in the longitudinal direction capable of holding workpieces, thin and thick, in grinding and light duty cutting. In particular, these chucks are suitable for grinding and light duty cutting of long thin workpieces and buff and belt grinding of large quantities of workpieces, which are difficult to hold by standard type electromagnetic chucks.

[Features]
- A fine pole pattern is arranged in the longitudinal direction.
- The N-S magnetic force lines are spaced relatively wide for good holding via a belt. (Note, however, that because the distribution of the holding power is not uniform, this model may not be suitable for grinding small workpieces arranged over the whole surface.)
- Powerful holding, but low height.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Voltage</th>
<th>Current</th>
<th>Power Cost</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>KESL-1535A-1</td>
<td>150 (5.90) × 300 (11.8)</td>
<td>150 (5.90)</td>
<td>300 (11.8)</td>
<td>19</td>
<td>245 (9.64)</td>
<td>146 (5.74)</td>
<td>314 (12.3)</td>
<td>148 (5.82)</td>
<td>300 (11.8)</td>
<td>140 VAC</td>
</tr>
<tr>
<td>KESL-1545A-1</td>
<td>150 (5.90) × 450 (17.7)</td>
<td>150 (5.90)</td>
<td>450 (17.7)</td>
<td>20</td>
<td>397 (15.6)</td>
<td>364 (14.3)</td>
<td>464 (18.2)</td>
<td>414 (16.3)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
</tr>
<tr>
<td>KESL-2050A-1</td>
<td>200 (7.87) × 400 (15.7)</td>
<td>200 (7.87)</td>
<td>400 (15.7)</td>
<td>27</td>
<td>349 (13.7)</td>
<td>445 (17.6)</td>
<td>482 (18.9)</td>
<td>441 (17.3)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
</tr>
<tr>
<td>KESL-2060A-1</td>
<td>200 (7.87) × 600 (23.6)</td>
<td>200 (7.87)</td>
<td>600 (23.6)</td>
<td>27</td>
<td>549 (21.6)</td>
<td>614 (24.1)</td>
<td>614 (24.1)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
<td>1.2A</td>
</tr>
</tbody>
</table>

**Model KETW-N**

ELECTROMAGNETIC MICROPITCH CHUCK

[Application]
Suitable for grinding and cutting of thin workpieces. However, workpieces should have an attractive face longer than 80 mm in the longitudinal direction.

[Features]
- In addition to grinding of thin workpieces that meet the above conditions, this model is also suitable for cutting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Holes</th>
<th>Mounting Hole</th>
<th>Voltage</th>
<th>Current</th>
<th>Power Cost</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
</tr>
</thead>
<tbody>
<tr>
<td>KETW-N1530</td>
<td>150 (5.90) × 300 (11.8)</td>
<td>150 (5.90)</td>
<td>300 (11.8)</td>
<td>19</td>
<td>245 (9.64)</td>
<td>146 (5.74)</td>
<td>314 (12.3)</td>
<td>148 (5.82)</td>
<td>300 (11.8)</td>
<td>140 VAC</td>
<td>0.44</td>
<td>2N (0.78)</td>
</tr>
<tr>
<td>KETW-N1545</td>
<td>150 (5.90) × 450 (17.7)</td>
<td>150 (5.90)</td>
<td>450 (17.7)</td>
<td>20</td>
<td>397 (15.6)</td>
<td>364 (14.3)</td>
<td>464 (18.2)</td>
<td>414 (16.3)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
<td>0.7A</td>
<td>3N (21.6)</td>
</tr>
<tr>
<td>KETW-N2050</td>
<td>200 (7.87) × 400 (15.7)</td>
<td>200 (7.87)</td>
<td>400 (15.7)</td>
<td>27</td>
<td>349 (13.7)</td>
<td>445 (17.6)</td>
<td>482 (18.9)</td>
<td>441 (17.3)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
<td>0.8A</td>
<td>3N (21.6)</td>
</tr>
<tr>
<td>KETW-N2060</td>
<td>200 (7.87) × 600 (23.6)</td>
<td>200 (7.87)</td>
<td>600 (23.6)</td>
<td>27</td>
<td>549 (21.6)</td>
<td>614 (24.1)</td>
<td>614 (24.1)</td>
<td>514 (20.2)</td>
<td>120 VAC</td>
<td>1.2A</td>
<td>3N (21.6)</td>
<td></td>
</tr>
</tbody>
</table>

For small and thin workpieces, the permanent magnetic micropitch chuck is recommended. See Model RMWH.
Model KET

STANDARD RECTANGULAR ELECTROMAGNETIC CHUCK

![Chock controller required additionally]]

[Application]
Most widely used electromagnetic chucks for grinding operations.

[Features]

- High rigidity, high reliability and high accuracy!
  KANETEC’s original machining technology is used to realize a lavish body-to-case one piece hollow construction, instead of a welded construction, to enhance the rigidity, minimize secular change and improve accuracy of the chucks.

- KANETEC’s original light weight design!
  The chuck weight has been reduced as much as possible in consideration of driving the table of grinders. This design helps contribute to a longer service life of grinders.

- Simple thin type yet strong holding power!
  The chucks have been designed as low as possible to increase a workpiece mounting space on the grinder. The overall height is as short as 70 mm to 80 mm for small and medium types and 85 mm for large types, thus various types of workpieces can be held. Though thin, KANETEC’s original design to secure an electromagnetic coil space ensures strong holding power.

- resin-bonded structural face plate having little environmental burden employed!

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Mounting Hole</th>
<th>Voltage</th>
<th>Current</th>
<th>Power Cord</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KET-614F</td>
<td>60×(236)×140</td>
<td>55.1</td>
<td>13</td>
<td>57</td>
<td>60×(236)×170</td>
<td>60×(236)×170</td>
<td>60×(236)×170</td>
<td>67</td>
<td>0.12A</td>
<td>2m/7.0</td>
<td>3.9kg</td>
<td>7 h</td>
</tr>
<tr>
<td>KET-1025F</td>
<td>100×(330)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>100×(330)×210</td>
<td>100×(330)×210</td>
<td>100×(330)×210</td>
<td>70</td>
<td>0.16A</td>
<td>12m/26</td>
<td>4.9kg</td>
<td>34.5 h</td>
</tr>
<tr>
<td>KET-1325F</td>
<td>125×(420)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>125×(420)×210</td>
<td>125×(420)×210</td>
<td>125×(420)×210</td>
<td>70</td>
<td>0.19A</td>
<td>15m/30</td>
<td>5.9kg</td>
<td>38.5 h</td>
</tr>
<tr>
<td>KET-1535F</td>
<td>150×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>150×(500)×210</td>
<td>150×(500)×210</td>
<td>150×(500)×210</td>
<td>70</td>
<td>0.20A</td>
<td>21m/46</td>
<td>7.9kg</td>
<td>42.5 h</td>
</tr>
<tr>
<td>KET-1454F</td>
<td>145×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>145×(500)×210</td>
<td>145×(500)×210</td>
<td>145×(500)×210</td>
<td>70</td>
<td>0.22A</td>
<td>25m/55</td>
<td>9.9kg</td>
<td>46.5 h</td>
</tr>
<tr>
<td>KET-2044F</td>
<td>200×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>200×(500)×210</td>
<td>200×(500)×210</td>
<td>200×(500)×210</td>
<td>70</td>
<td>0.29A</td>
<td>32m/70</td>
<td>12.9kg</td>
<td>50.5 h</td>
</tr>
<tr>
<td>KET-2056F</td>
<td>205×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>205×(500)×210</td>
<td>205×(500)×210</td>
<td>205×(500)×210</td>
<td>70</td>
<td>0.34A</td>
<td>47m/103</td>
<td>16.9kg</td>
<td>54.5 h</td>
</tr>
<tr>
<td>KET-2556F</td>
<td>255×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>255×(500)×210</td>
<td>255×(500)×210</td>
<td>255×(500)×210</td>
<td>70</td>
<td>0.47A</td>
<td>57m/125</td>
<td>20.9kg</td>
<td>58.5 h</td>
</tr>
<tr>
<td>KET-3056F</td>
<td>305×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>305×(500)×210</td>
<td>305×(500)×210</td>
<td>305×(500)×210</td>
<td>70</td>
<td>0.56A</td>
<td>67m/147</td>
<td>25.9kg</td>
<td>62.5 h</td>
</tr>
<tr>
<td>KET-3566F</td>
<td>356×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>356×(500)×210</td>
<td>356×(500)×210</td>
<td>356×(500)×210</td>
<td>70</td>
<td>0.72A</td>
<td>80m/176</td>
<td>32.9kg</td>
<td>67.5 h</td>
</tr>
<tr>
<td>KET-4056F</td>
<td>405×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>405×(500)×210</td>
<td>405×(500)×210</td>
<td>405×(500)×210</td>
<td>70</td>
<td>0.68A</td>
<td>100m/205</td>
<td>60.9kg</td>
<td>74.5 h</td>
</tr>
<tr>
<td>KET-4566F</td>
<td>456×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>456×(500)×210</td>
<td>456×(500)×210</td>
<td>456×(500)×210</td>
<td>70</td>
<td>1.06A</td>
<td>120m/234</td>
<td>84.9kg</td>
<td>81.5 h</td>
</tr>
<tr>
<td>KET-5066F</td>
<td>506×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>506×(500)×210</td>
<td>506×(500)×210</td>
<td>506×(500)×210</td>
<td>70</td>
<td>1.22A</td>
<td>150m/262</td>
<td>105.9kg</td>
<td>87.5 h</td>
</tr>
<tr>
<td>KET-5566F</td>
<td>556×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>556×(500)×210</td>
<td>556×(500)×210</td>
<td>556×(500)×210</td>
<td>70</td>
<td>1.09A</td>
<td>170m/301</td>
<td>129.9kg</td>
<td>93.5 h</td>
</tr>
<tr>
<td>KET-6066F</td>
<td>606×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>606×(500)×210</td>
<td>606×(500)×210</td>
<td>606×(500)×210</td>
<td>70</td>
<td>1.42A</td>
<td>190m/330</td>
<td>153.9kg</td>
<td>99.5 h</td>
</tr>
<tr>
<td>KET-6566F</td>
<td>656×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>656×(500)×210</td>
<td>656×(500)×210</td>
<td>656×(500)×210</td>
<td>70</td>
<td>1.74A</td>
<td>220m/360</td>
<td>177.9kg</td>
<td>105.5 h</td>
</tr>
<tr>
<td>KET-7066F</td>
<td>706×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>706×(500)×210</td>
<td>706×(500)×210</td>
<td>706×(500)×210</td>
<td>70</td>
<td>0.93A</td>
<td>140m/293</td>
<td>129.9kg</td>
<td>93.5 h</td>
</tr>
<tr>
<td>KET-7566F</td>
<td>756×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>756×(500)×210</td>
<td>756×(500)×210</td>
<td>756×(500)×210</td>
<td>70</td>
<td>1.06A</td>
<td>170m/330</td>
<td>153.9kg</td>
<td>99.5 h</td>
</tr>
<tr>
<td>KET-8066F</td>
<td>806×(500)×205</td>
<td>88.4</td>
<td>14</td>
<td>57</td>
<td>806×(500)×210</td>
<td>806×(500)×210</td>
<td>806×(500)×210</td>
<td>70</td>
<td>1.68A</td>
<td>230m/408</td>
<td>220.9kg</td>
<td>117.5 h</td>
</tr>
</tbody>
</table>

- If the magnetic force needs not be adjusted, use ES-M.  The chuck controller and clamp parts are not included. The KANETEC chucks works best when a KANETEC chuck controller is used.
- Except for KET-614F, only the side stopper is included. (The back stopper is not included.)  Chucks for electric discharge machining are also available. Please contact us. (Model KET-ED)
Model KET-U
TILT TYPE ELECTROMAGNETIC CHUCK

Chuck controller required additionally

[Application]
Suitable for grinding inclined faces of jigs/fixtures and metal molds.

[Features]
- Easy mounting and an angle can be set as desired in a range of 90° forward and 90° backward.
- The rotary shaft with scale facilitates angle setting.
- A resin-bonded structural face plate having little environmental burden is employed.

---

Model KEZ-H
ELECTROMAGNETIC CHUCK WITH HARD ATTRACTIVE FACE

Chuck controller required additionally

An example of fabrication

[Application]
An electromagnetic chuck with a hardened attractive face. The face plate is less susceptible to damage and the frequency of self-grinding can be reduced. Also for self-grinding, the grinding wheel needs not be replaced, thus shortening the setup time.

---

Model KETV
ELECTROMAGNETIC CHUCK WITH VACUUM CHUCK FUNCTION

Chuck controller required additionally

Vacuum system required additionally

[Application]
An electromagnetic chuck with a vacuum chuck function of grid seal type added. The vacuum chuck function enables it to hold nonmagnetic workpieces also.

[Features]
- The height has been reduced by 35 mm.
- The vacuum chuck can be configured to a desired usage area using seal rubber.
- Since vacuum is maintained by use of seal rubber, a high degree of vacuum can be maintained even when workpieces are slightly warped.
- Usable in wet operations.

See "Vacuum Chucks" on pages P42 to P45 also.
**Model KET-UTS**

LARGE CONNECTING TILT TYPE ELECTROMAGNETIC CHUCK

---

**Intermediate tilting base**

**Chuck controller required additionally**

---

![Diagram of KET-UTS]

---

**[Application]**

This model is used with grinders of wood slice cutters and most suitable for angle grinding of edges. It can also be used for uniform grinding in the longitudinal direction.

**[Features]**

- As a connecting type, this model consists of a main unit, lead shaft, intermediate shaft, tilting shaft, tilting base and intermediate tilting base. When one unit is used, it is used as shown in Fig. 2 and when three units are used, they are connected as shown in Fig. 1.
- As the tilting torque is large, the shaft has been made long to increase the reduction ratio on your machine side. (The scaled ring and tilting device are not included. Provide them on your machine side.)
- The chuck-to-chuck connecting clearance is as small as 40 mm.

---

### An example of mounting

![Example of mounting diagram]

---

### Table: Specifications of KET-UTFS

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole pitch</th>
<th>Length</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KET-20100UTFS</td>
<td>200 x 1700 (39.3)</td>
<td>1000 (39.3)</td>
<td>920 (36.2)</td>
<td>1340 (52.7)</td>
<td>90 VDC</td>
<td>0.72A</td>
<td>Approx. 305kg/672 N</td>
<td>ES-M103B</td>
<td></td>
</tr>
<tr>
<td>KET-20120UTFS</td>
<td>200 x 1400 (39.3)</td>
<td>1200 (47.2)</td>
<td>1120 (44.0)</td>
<td>1540 (60.6)</td>
<td></td>
<td>0.90A</td>
<td>Approx. 355kg/782 N</td>
<td>ES-M305B</td>
<td></td>
</tr>
<tr>
<td>KET-20140UTFS</td>
<td>200 x 1400 (55.1)</td>
<td>1400 (55.1)</td>
<td>1320 (51.9)</td>
<td>1740 (66.5)</td>
<td></td>
<td>1.00A</td>
<td>Approx. 400kg/781 N</td>
<td>ES-M305A</td>
<td></td>
</tr>
<tr>
<td>KET-20150UTFS</td>
<td>200 x 1500 (59.9)</td>
<td>1500 (59.9)</td>
<td>1420 (55.9)</td>
<td>1840 (72.4)</td>
<td></td>
<td>1.25A</td>
<td>Approx. 430kg/948 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KET-20160UTFS</td>
<td>200 x 1600 (62.9)</td>
<td>1600 (62.9)</td>
<td>1520 (59.8)</td>
<td>1940 (76.3)</td>
<td></td>
<td>1.35A</td>
<td>Approx. 445kg/961 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KET-20170UTFS</td>
<td>200 x 1700 (66.9)</td>
<td>1700 (66.9)</td>
<td>1620 (59.7)</td>
<td>2040 (80.3)</td>
<td></td>
<td>1.33A</td>
<td>Approx. 455kg/1025 N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- \( L_{1} \), \( L_{2} \), \( L_{3} \) correspond to the units of the model name.
- **Fig. 1** shows the number of units connected.

---

### When ordering

If you want to connect units as shown in Fig. 1, please order the number of main units to be connected.

---

**Application**

This model is used with grinders of wood slice cutters and most suitable for angle grinding of edges. It can also be used for uniform grinding in the longitudinal direction.

**Features**

- As a connecting type, this model consists of a main unit, lead shaft, intermediate shaft, tilting shaft, tilting base and intermediate tilting base. When one unit is used, it is used as shown in Fig. 2 and when three units are used, they are connected as shown in Fig. 1.
- As the tilting torque is large, the shaft has been made long to increase the reduction ratio on your machine side. (The scaled ring and tilting device are not included. Provide them on your machine side.)
- The chuck-to-chuck connecting clearance is as small as 40 mm.

---

**Table: Specifications of KET-UTFS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole pitch</th>
<th>Length</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KET-20100UTFS</td>
<td>200 x 1700 (39.3)</td>
<td>1000 (39.3)</td>
<td>920 (36.2)</td>
<td>1340 (52.7)</td>
<td>90 VDC</td>
<td>0.72A</td>
<td>Approx. 305kg/672 N</td>
<td>ES-M103B</td>
<td></td>
</tr>
<tr>
<td>KET-20120UTFS</td>
<td>200 x 1400 (39.3)</td>
<td>1200 (47.2)</td>
<td>1120 (44.0)</td>
<td>1540 (60.6)</td>
<td></td>
<td>0.90A</td>
<td>Approx. 355kg/782 N</td>
<td>ES-M305B</td>
<td></td>
</tr>
<tr>
<td>KET-20140UTFS</td>
<td>200 x 1400 (55.1)</td>
<td>1400 (55.1)</td>
<td>1320 (51.9)</td>
<td>1740 (66.5)</td>
<td></td>
<td>1.00A</td>
<td>Approx. 400kg/781 N</td>
<td>ES-M305A</td>
<td></td>
</tr>
<tr>
<td>KET-20150UTFS</td>
<td>200 x 1500 (59.9)</td>
<td>1500 (59.9)</td>
<td>1420 (55.9)</td>
<td>1840 (72.4)</td>
<td></td>
<td>1.25A</td>
<td>Approx. 430kg/948 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KET-20160UTFS</td>
<td>200 x 1600 (62.9)</td>
<td>1600 (62.9)</td>
<td>1520 (59.8)</td>
<td>1940 (76.3)</td>
<td></td>
<td>1.35A</td>
<td>Approx. 445kg/961 N</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KET-20170UTFS</td>
<td>200 x 1700 (66.9)</td>
<td>1700 (66.9)</td>
<td>1620 (59.7)</td>
<td>2040 (80.3)</td>
<td></td>
<td>1.33A</td>
<td>Approx. 455kg/1025 N</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- \( L_{1} \), \( L_{2} \), \( L_{3} \) correspond to the units of the model name.
- **Fig. 1** shows the number of units connected.

---

### When ordering

If you want to connect units as shown in Fig. 1, please order the number of main units to be connected.
**ELECTROMAGNETIC CHUCKS**

**Model KEC-AR/AS**

**ROUND ELECTROMAGNETIC CHUCK**

[Application]
Suitable for grinding and cutting operations with the chuck mounted on such machine tools as rotary grinders, lathes, turning machines and rotary milling machines that rotate workpieces to machine. This model comes in two types: ring pole and star pole according to the patterns on the chuck work face. The ring pole type is used for general grinding operations and the star pole type for cutting operations also.

**Features**
- Relatively thin workpieces that are likely to be distorted by mechanical clamping can be held by uniform holding power of the ring pole type for highly precise machining.
- For such operations as cutting thick workpieces, the star pole type is recommended that generates strong holding power.

**Feeder (optional)**
This feeder is required to use the round type electromagnetic chucks. Since the chuck itself is rotated, the feeder cables cannot be connected directly. For this reason, electricity is fed via a slip contact between the carbon brush on the power source side and the slip ring attached to the chuck.

The φ24 mounting hole of the slip ring (SR-1) can be expanded up to φ40.

![Feeder required additionally](distorted!)

![An example of installation on a vertical grinder](distorted!)

---

**Table: Ring-Pole Type**

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face (D)</th>
<th>Pole Pitch (d)</th>
<th>No. of Pol.</th>
<th>Mounting Face (K)</th>
<th>Height (H)</th>
<th>Voltage</th>
<th>Curent</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEC-10ARE</td>
<td>100</td>
<td>100</td>
<td>75</td>
<td>29</td>
<td>M 6</td>
<td>85</td>
<td>0.06A</td>
<td>4.9kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-16ARE</td>
<td>160</td>
<td>160</td>
<td>135</td>
<td>29</td>
<td>M 6</td>
<td>85</td>
<td>0.29A</td>
<td>9.8kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-20ARE</td>
<td>200</td>
<td>200</td>
<td>161</td>
<td>35</td>
<td>M 8</td>
<td>178</td>
<td>0.26A</td>
<td>17.6kg</td>
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<tr>
<td>KEC-25ARE</td>
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<td>250</td>
<td>233</td>
<td>35</td>
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<td>178</td>
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<td>315</td>
<td>271</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
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<td>27.9kg</td>
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</tr>
<tr>
<td>KEC-40ARE</td>
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<td>400</td>
<td>377</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
<td>1.10A</td>
<td>42.5kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-50ARE</td>
<td>500</td>
<td>500</td>
<td>463</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
<td>1.85A</td>
<td>58.6kg</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>KEC-63ARE</td>
<td>630</td>
<td>630</td>
<td>583</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
<td>3.10A</td>
<td>81.9kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-60ARE</td>
<td>800</td>
<td>800</td>
<td>748</td>
<td>70</td>
<td>(3+11)</td>
<td>710</td>
<td>5.10A</td>
<td>175kg</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>KEC-100ARE</td>
<td>1000</td>
<td>1000</td>
<td>964</td>
<td>70</td>
<td>(3+11)</td>
<td>710</td>
<td>6.55A</td>
<td>280kg</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

---

**Table: Star-Pole Type**

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face (D)</th>
<th>Pole Pitch (d)</th>
<th>No. of Pol.</th>
<th>Mounting Face (K)</th>
<th>Height (H)</th>
<th>Voltage</th>
<th>Curent</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KEC-10ASE</td>
<td>100</td>
<td>100</td>
<td>75</td>
<td>29</td>
<td>M 6</td>
<td>85</td>
<td>0.04A</td>
<td>4.3kg</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>KEC-16ASE</td>
<td>160</td>
<td>160</td>
<td>135</td>
<td>29</td>
<td>M 6</td>
<td>85</td>
<td>0.08A</td>
<td>9.8kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-20ASE</td>
<td>200</td>
<td>200</td>
<td>161</td>
<td>35</td>
<td>M 8</td>
<td>178</td>
<td>0.13A</td>
<td>19.1kg</td>
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<td></td>
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</tr>
<tr>
<td>KEC-25ASE</td>
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<td>250</td>
<td>233</td>
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<td>M 8</td>
<td>178</td>
<td>0.40A</td>
<td>42.5kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-32ASE</td>
<td>315</td>
<td>315</td>
<td>271</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
<td>0.44A</td>
<td>42.5kg</td>
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<td></td>
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</tr>
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<td>377</td>
<td>49</td>
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<td>272</td>
<td>1.00A</td>
<td>152kg</td>
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<tr>
<td>KEC-50ASE</td>
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<td>500</td>
<td>463</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
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<td>225kg</td>
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</tr>
<tr>
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<td>630</td>
<td>630</td>
<td>583</td>
<td>49</td>
<td>M 8</td>
<td>272</td>
<td>1.88A</td>
<td>370kg</td>
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<td></td>
</tr>
<tr>
<td>KEC-60ASE</td>
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<td>800</td>
<td>748</td>
<td>70</td>
<td>(3+11)</td>
<td>710</td>
<td>3.20A</td>
<td>596kg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KEC-100ASE</td>
<td>1000</td>
<td>1000</td>
<td>964</td>
<td>70</td>
<td>(3+11)</td>
<td>710</td>
<td>6.63A</td>
<td>896kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

- If the magnetic force needs not be adjusted, use ES-M.
- The chuck controller and clamp parts are not included. The KANATEC chucks work best when a KANATEC chuck controller is used.

![Slip ring Model SR-1](distorted!)

![Brush holder Model BH-1 A](distorted!)
Model KETB AIRUP*

Pneumatic floating type

Control unit required additionally

(Air pressure and side slip force)

Model ES-VB CONTROL UNIT FOR AIRUP*

(Dimensions of remote control box)

[Application]

Air is jetted through air holes provided on the chuck work face to float a workpiece for easy positioning, demounting and movement. The chucks can be air cooled by adding a cooling device. This model is for grinding, but a model for cutting is also available upon request.

[Features]

- Workpieces having strong residual magnetism can be separated and floated by the pressure of a small amount of air for easy removal.
- The optimum floating condition can be adjusted according to the material, size and shape of workpieces by increasing/decreasing the air pressure supplied from the control unit.
- As a small amount of air is constantly jetted through air holes during grinding, intrusion of grinding fluid and ground powder can be prevented.
- The air circuit in the chuck has a construction specially developed by KANETEC to minimize clogging.
- The control unit is an easy-to-operate special unit incorporating an air regulator, rectifier, and demagnetizer.

Model KETB

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Mounting Hole</th>
<th>Voltage</th>
<th>Power Cord</th>
<th>Mass</th>
<th>Control Unit</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KETB-2050B</td>
<td>100.70 x 50.00</td>
<td>100.70</td>
<td>464.18</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>454.24.</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-2060B</td>
<td>100.70 x 60.00</td>
<td>100.70</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-2550B</td>
<td>150.00 x 100.00</td>
<td>150.00</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-3060B</td>
<td>150.00 x 150.00</td>
<td>150.00</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-4050B</td>
<td>150.00 x 200.00</td>
<td>150.00</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-5000B</td>
<td>150.00 x 250.00</td>
<td>150.00</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
<tr>
<td>KETB-6000B</td>
<td>150.00 x 300.00</td>
<td>150.00</td>
<td>548.21</td>
<td>14.2/12 (5.55)</td>
<td>94.76</td>
<td>538.24</td>
<td>18.0</td>
<td>97.8</td>
<td>14</td>
<td>-</td>
<td>0.34A</td>
</tr>
</tbody>
</table>

Model ES-VB

[Application]

This control unit is computer controlled to create the most effective demagnetizing patterns within a short period of time, thus providing the consistent demagnetizing effect constantly. The operation is quite simple. No complicated adjustment is necessary and an electric valve control circuit for floating is also incorporated. During grinding of workpieces, air at low pressure [about 20 kPa (0.2 kg/cm²)] is jetted through holes provided on the chuck work face to prevent intrusion of waste fluid/oil and fine particles. When unloading the workpieces after the end of grinding, the circuit is automatically switched over to the high pressure [about 150 kPa (1.5 kg/cm²)] in response to the demagnetizing command to float the workpieces.

[Features]

- The demagnetizing time is as short as 6 to 15 seconds and consistent demagnetizing effect can be obtained.
- The magnetic force can be adjusted and workpieces can be straightened also.
- The noise resistance feature ensures consistent performance in certain noisy environment.
- A compact air unit is incorporated.

Model

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Voltage</th>
<th>Output Voltage</th>
<th>Current</th>
<th>Dimensions</th>
<th>Mounting</th>
<th>Air Control Unit</th>
<th>Mass</th>
<th>Remote Control Box</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES-VB305A</td>
<td>Single-phase 100-200 VAC</td>
<td>0 - 90 VDC</td>
<td>5A</td>
<td>602 x 236.6</td>
<td>200 x 77.9</td>
<td>466 x 17.5</td>
<td>4.4 x 10.5 x 20</td>
<td>Built-in</td>
</tr>
</tbody>
</table>

*For applications where the output current more than 5 A is required, the controller and the air control unit come as specially-fabricated separate units.
*The applicable air pipe diameter is φ 8 or φ 12. *The output is adjustable with a variable resistor.
ELECTROMAGNETIC CHUCKS

**Model KCT**

**WATER-COOLED RECTANGULAR ELECTROMAGNETIC CHUCK**

[Image of a rectangular electromagnetic chuck]

**KCT-2550F**

- **Chuck controller required additionally**

**Features**

- A special construction to cool the electromagnetic coils directly.
- A unique construction; accuracy change is very small and temperature rise is minimized by using both cooling water flowing inside the chuck and grinding fluid sprayed over the top surface. This design minimizes thermal expansion of the chuck due to temperature rise.
- Cooling water flows inside the chuck, but KANETEC’s original design protects the internal coils from damage.
- Most suitable for dry grinding operations as heat of workpieces is also removed.
- A resin-bonded structural face plate having little environmental burden is employed.

**Model**

- **Nominal Size**
- **Work Face**
- **Pole Pitch**
- **Mounting Face**
- **Height**
- **Hose Coupling**
- **Voltage**
- **Power Cord**
- **Mass**
- **Electro Chuck Master**

---

**Model KCT-U**

**WATER-COOLED TILT TYPE ELECTROMAGNETIC CHUCK**

[Image of a tilt electromagnetic chuck]

**KCT-1535UF**

- **Chuck controller required additionally**

**Features**

- Cooling water flows inside the chuck, but KANETEC’s original design protects the internal coils from damage.
- Since the cooling hose is connected to the shaft, a desired tilting range can be set.
- The hose does not become an obstacle regardless of tilting angles of the work face. Grinding at a tilted angle can be carried out without paying attention to the hose location.
- The tilting angle can be set as desired in a range of 90° forward and 90° backward.
- Cooling water is let flow inside the chuck to cool the coils directly and grinding fluid cools the top surface. This design minimizes temperature rise, thus minimizing accuracy change of the chuck.
- A resin-bonded structural face plate having little environmental burden is employed.

**Model**

- **Nominal Size**
- **Work Face**
- **Pole Pitch**
- **Tilt Base**
- **Height**
- **Heating Voltage**
- **Current**
- **Mass**
- **Electro Chuck Master**

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated

---

**Application**

Since no heat is generated when the power is on, this model is suitable for high precision angle grinding.

---

**Electronically Treated**

- No heat generated
### Model KCC-AR

**WATER-COOLED ROUND ELECTROMAGNETIC CHUCK**

- **Application**
  Suitable for grinding by rotary grinders.

- **Features**
  1. Very little accuracy change. KANETEC’s unique cooling mechanism minimizes temperature rise. Deformation of the chuck is minimized, thus making it most suitable for high precision grinding operations.

**Chuck controller required additionally**

![KCC-35AR Diagram](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Nominal Size</th>
<th>Work Face</th>
<th>Pole Pitch</th>
<th>Mounting Face</th>
<th>Height</th>
<th>Voltage</th>
<th>Current</th>
<th>Mass</th>
<th>Electro Chuck Master</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>KCC-35AR</td>
<td>350 x 13.7</td>
<td>350 x 13.7</td>
<td>316 x 12.4</td>
<td>145 (5.70)</td>
<td>130</td>
<td>90 VDC</td>
<td>0.75A</td>
<td>60 kg</td>
<td>ES-M105B</td>
<td>For types with a combination of a rectifier and demagnetizer, see pages of “Chuck Controllers.”</td>
</tr>
<tr>
<td>KCC-40AR</td>
<td>400 x 15.7</td>
<td>400 x 15.7</td>
<td>341 x 13.4</td>
<td>139 (5.50)</td>
<td>130</td>
<td>100 VDC</td>
<td>1.05A</td>
<td>100 kg</td>
<td>ES-M305B</td>
<td></td>
</tr>
<tr>
<td>KCC-50AR</td>
<td>500 x 19.6</td>
<td>500 x 19.6</td>
<td>441 x 17.3</td>
<td>193 (7.60)</td>
<td>130</td>
<td>150 VDC</td>
<td>1.75A</td>
<td>150 kg</td>
<td>EH-V305A</td>
<td></td>
</tr>
<tr>
<td>KCC-60AR</td>
<td>600 x 23.6</td>
<td>600 x 23.6</td>
<td>541 x 21.3</td>
<td>217 (8.50)</td>
<td>130</td>
<td>200 VDC</td>
<td>2.30A</td>
<td>250 kg</td>
<td>EH-V305A</td>
<td></td>
</tr>
<tr>
<td>KCC-70AR</td>
<td>700 x 27.5</td>
<td>700 x 27.5</td>
<td>641 x 25.2</td>
<td>259 (9.90)</td>
<td>130</td>
<td>250 VDC</td>
<td>3.20A</td>
<td>330 kg</td>
<td>EH-V305A</td>
<td></td>
</tr>
<tr>
<td>KCC-80AR</td>
<td>800 x 31.5</td>
<td>800 x 31.5</td>
<td>741 x 28.1</td>
<td>285 (11.18)</td>
<td>130</td>
<td>300 VDC</td>
<td>3.90A</td>
<td>430 kg</td>
<td>EH-V305A</td>
<td></td>
</tr>
</tbody>
</table>

* A cooler unit is required additionally.  
* If the magnetic force needs not be adjusted, use ES-M.  
* The chuck controller and clamp parts are not included. The KANETEC chucks work best when a KANETEC chuck controller is used.

### Model LCU

**COOLER UNIT**

- **Application**
  An air cooler unit to cool and circulate coolant in water-cooled type chucks.

- **Features**
  1. The flow rate can be adjusted with a valve.  
  2. Simple and compact for easy installation.  
  3. Synchronized with room temperature by an air-cooled oil cooler.

![LCU-2 Diagram](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>Discharge Amount</th>
<th>Total Lift</th>
<th>Power Source</th>
<th>Required Power</th>
<th>Dimensions</th>
<th>Tank Capacity</th>
<th>Mass</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCU-2</td>
<td>30 ℓ / 43 ℓ</td>
<td>2m (78.7)</td>
<td>Single phase</td>
<td>70W</td>
<td>20 ℓ</td>
<td>30kg/66 lb</td>
<td>Power cable 3 m (118)</td>
<td></td>
</tr>
</tbody>
</table>

* The recommended coolant is automotive long life coolant.  
* The electromagnetic chucks to use must be those that consume less than 300 W (90V, 3.3 A).