# HYDRAULIC PRESS BRAKE BRAND KODOKISUL

## FUNDAMENTAL DATA

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Nominal force of the ram (KN)</td>
<td>630</td>
<td>1000</td>
<td>1600</td>
<td>2000</td>
<td>2500</td>
</tr>
<tr>
<td>2</td>
<td>Table length (mm)</td>
<td>2500</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
</tr>
<tr>
<td>3</td>
<td>Upright column distance (mm)</td>
<td>2050</td>
<td>2680</td>
<td>2600</td>
<td>2600</td>
<td>2700</td>
</tr>
<tr>
<td>4</td>
<td>Throat depth (mm)</td>
<td>250</td>
<td>320</td>
<td>320</td>
<td>320</td>
<td>400</td>
</tr>
<tr>
<td>5</td>
<td>Max. stroke of the ram (mm)</td>
<td>100</td>
<td>120</td>
<td>200</td>
<td>200</td>
<td>250</td>
</tr>
<tr>
<td>6</td>
<td>Max. open height between the table and the ram (mm)</td>
<td>360</td>
<td>370</td>
<td>470</td>
<td>520</td>
<td>470</td>
</tr>
<tr>
<td>7</td>
<td>Working Speed (mm/s)</td>
<td>8</td>
<td>8</td>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>Main motor power (KW)</td>
<td>5.5</td>
<td>7.5</td>
<td>11</td>
<td>15</td>
<td>18.5</td>
</tr>
<tr>
<td>9</td>
<td>Dimension</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(L) (mm)</td>
<td>2560</td>
<td>3280</td>
<td>3260</td>
<td>3260</td>
<td>3260</td>
</tr>
<tr>
<td></td>
<td>(W) (mm)</td>
<td>1725</td>
<td>1820</td>
<td>1940</td>
<td>1940</td>
<td>1990</td>
</tr>
<tr>
<td></td>
<td>(H) (mm)</td>
<td>2280</td>
<td>2430</td>
<td>2660</td>
<td>2865</td>
<td>3060</td>
</tr>
</tbody>
</table>
MECHANICAL THREE ROLLERS SYMMETRIC ROLLING MACHINE

MODEL: KODOKISUL - W11 SERIES

Features:

This construction of this machine is in the form of three roller symmetry. The top roller, in the central symmetry position over the two bottom rollers, dose vertical motion up and down through screw, nut and worm transmission. Decelerator gears bottom rollers providing torsion moment for coiling sheet metal.

<table>
<thead>
<tr>
<th>Model</th>
<th>KKW11-6X1500</th>
<th>KKW11-8X2500</th>
<th>KKW11-12X3000</th>
<th>KKW11-16X3200</th>
<th>KKW11-20X2500</th>
<th>KKW11-25X2500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. thickness of coiled plate (mm)</td>
<td>6</td>
<td>8</td>
<td>12</td>
<td>16</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Max. width of coiled plate (mm)</td>
<td>1500</td>
<td>2500</td>
<td>3000</td>
<td>3200</td>
<td>2500</td>
<td>2500</td>
</tr>
<tr>
<td>Yielding limit of sheet metal (mm)</td>
<td>235</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>245</td>
</tr>
<tr>
<td>Coiling speed (m/min)</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Min. full loading dia. of coiled plate (mm)</td>
<td>450</td>
<td>600</td>
<td>700</td>
<td>850</td>
<td>850</td>
<td>1200</td>
</tr>
<tr>
<td>Diameter of top shaft (mm)</td>
<td>160</td>
<td>240</td>
<td>280</td>
<td>340</td>
<td>340</td>
<td>360</td>
</tr>
<tr>
<td>Diameter of bottom shaft (mm)</td>
<td>160</td>
<td>180</td>
<td>250</td>
<td>280</td>
<td>280</td>
<td>290</td>
</tr>
<tr>
<td>Central distance between bottom shafts (mm)</td>
<td>250</td>
<td>280</td>
<td>359</td>
<td>440</td>
<td>440</td>
<td>480</td>
</tr>
<tr>
<td>Motor power (Kw)</td>
<td>4</td>
<td>7.5</td>
<td>11</td>
<td>15</td>
<td>15</td>
<td>22</td>
</tr>
<tr>
<td>Overall dimensions (mm)</td>
<td>3310X1210 X1330</td>
<td>3810X1210 X1330</td>
<td>5500X1500 X1330</td>
<td>6300X1600 X1900</td>
<td>5600X1600 X1900</td>
<td>6000X4600 X2150</td>
</tr>
</tbody>
</table>

Slip Rolling Machine

<table>
<thead>
<tr>
<th>Model</th>
<th>KKW01-1.5x1300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Thickness (mm)</td>
<td>1.5</td>
</tr>
<tr>
<td>Max. Width (mm)</td>
<td>1300</td>
</tr>
<tr>
<td>Diameter of Roll (mm)</td>
<td>75</td>
</tr>
<tr>
<td>Packing Size (cm)</td>
<td>173 X 45 X 54</td>
</tr>
<tr>
<td>N.W./G.W. (Kg)</td>
<td>220 / 250</td>
</tr>
</tbody>
</table>
# HYDRAULIC SHEARING MACHINE BRAND KODOKISUL

## FUNDAMENTAL DATA

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>KKQC12Y-6X2500</th>
<th>KKQC12Y-6X3200</th>
<th>KKQC12Y-10X3200</th>
<th>KKQC12Y-12X3200</th>
<th>KKQC12Y-16X3200</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Max. shearing Thickness (mm)</td>
<td>6</td>
<td>6</td>
<td>10</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>Max. shearing Width(mm)</td>
<td>2500</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
</tr>
<tr>
<td>3</td>
<td>Shearing Angle</td>
<td>1°30'</td>
<td>1°30'</td>
<td>1°30'</td>
<td>1°30'</td>
<td>2°</td>
</tr>
<tr>
<td>4</td>
<td>Back Gauge Range (mm)</td>
<td>20 - 600</td>
<td>20 - 600</td>
<td>20 - 600</td>
<td>20 - 800</td>
<td>20 – 800</td>
</tr>
<tr>
<td>5</td>
<td>Stroke number(min⁻¹)</td>
<td>18</td>
<td>14</td>
<td>10</td>
<td>14</td>
<td>8</td>
</tr>
<tr>
<td>6</td>
<td>Main motor power (kW)</td>
<td>7.5</td>
<td>7.5</td>
<td>18.5</td>
<td>18.5</td>
<td>22</td>
</tr>
<tr>
<td>7</td>
<td>Dimension</td>
<td>L (mm)</td>
<td>3130</td>
<td>3840</td>
<td>3900</td>
<td>3925</td>
</tr>
<tr>
<td></td>
<td></td>
<td>W (mm)</td>
<td>1530</td>
<td>1675</td>
<td>1850</td>
<td>1800</td>
</tr>
<tr>
<td></td>
<td></td>
<td>H (mm)</td>
<td>1600</td>
<td>1620</td>
<td>1760</td>
<td>1940</td>
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</table>

## Mechanical Shearing Machine

<table>
<thead>
<tr>
<th>Model</th>
<th>KKQH11D</th>
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</thead>
<tbody>
<tr>
<td>Shearing Thickness (mm)</td>
<td>2.5</td>
</tr>
<tr>
<td>Shearing Width (mm)</td>
<td>2500</td>
</tr>
<tr>
<td>Shearing Angle</td>
<td>1 Deg</td>
</tr>
<tr>
<td>No. of Stroke (min)</td>
<td>47</td>
</tr>
<tr>
<td>Back Gauge Range (mm)</td>
<td>0 – 650</td>
</tr>
<tr>
<td>Height of Table (mm)</td>
<td>800</td>
</tr>
<tr>
<td>Motor Power (Kw)</td>
<td>5.5</td>
</tr>
<tr>
<td>Overall Dimension (mm)</td>
<td>3214 X 2210 X 1180</td>
</tr>
</tbody>
</table>
SECTION BENDER MACHINE

Angle iron benders apply vertical structure. It can bend inner and outer various angle irons. It also can roll round steel, pipe, square pipe, U steel through change different roller, its ideal equipment for bend angle iron flange. It’s widely used in construction, fitment, hardware, light industry, and chemical industries.

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity</th>
<th>Min. bending diameter (mm)</th>
<th>Motor (Kw)</th>
<th>Weight (Kg)</th>
<th>Size (L.W.H) (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KKWB-300L</td>
<td>L30X3</td>
<td>400</td>
<td>2.2</td>
<td>275</td>
<td>680X720X1130</td>
</tr>
<tr>
<td>KKWB-400</td>
<td>L30X3</td>
<td>200</td>
<td>2.2</td>
<td>338</td>
<td>810X630X1040</td>
</tr>
<tr>
<td>KKWB-500</td>
<td>L40X4</td>
<td>400</td>
<td>3.0</td>
<td>487</td>
<td>920X700X1300</td>
</tr>
<tr>
<td>KKWB-750</td>
<td>L60X6</td>
<td>500</td>
<td>4.0</td>
<td>604</td>
<td>1320X800X1050</td>
</tr>
<tr>
<td>KKWB-750B</td>
<td>L60X6</td>
<td>500</td>
<td>4.0</td>
<td>656</td>
<td>1100X920X1300</td>
</tr>
<tr>
<td>KKWBZ-750B</td>
<td>L60X6</td>
<td>500</td>
<td>3.7/4</td>
<td>930</td>
<td>1300X1100X1550</td>
</tr>
</tbody>
</table>

Note: The main function is to form outer bends, while Model B is used to form both inner and outer bends.
# ELECTRO HYDRAULIC PIPE BENDERS MACHINE

Main Technical Parameter.

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Pressure (T)</th>
<th>Max. Stroke (mm)</th>
<th>Crimp Range (mm)</th>
<th>Bending Formers (in)</th>
<th>Wall Thickness of Pipe (mm)</th>
<th>Weight (kg)</th>
<th>Dimension L. W. H. cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>KKHW-4D</td>
<td>21</td>
<td>370</td>
<td>21.5 - 108</td>
<td>½” ¾” 1” 1 ¼” 1 ½” 2” 2 ¼” 3” 4”</td>
<td>2.75 - 6</td>
<td>174</td>
<td>118 X 46 X32</td>
</tr>
</tbody>
</table>
LOCK FORMING MACHINE

The machine is the most common duct manufacturing machine. The user can replace roller to process different kinds of sheet metal. It is suitable used on site

<table>
<thead>
<tr>
<th>Mode</th>
<th>Motor Kw</th>
<th>Capacity mm</th>
<th>Weight Kg</th>
<th>Dimension L. W. H. mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>KKLC-10</td>
<td>1.5</td>
<td>0.3-1.0</td>
<td>175</td>
<td>920 x 580 x 890</td>
</tr>
<tr>
<td>KKLC-10R</td>
<td>1.5</td>
<td>0.3-1.0</td>
<td>185</td>
<td>920 x 580 x 1020</td>
</tr>
<tr>
<td>KKLC-10C</td>
<td>1.5</td>
<td>0.3-1.0</td>
<td>185</td>
<td>920 x 580 x 1020</td>
</tr>
<tr>
<td>KKLC-10B</td>
<td>1.5</td>
<td>0.3-1.0</td>
<td>220</td>
<td>1200 x 600 x 1020</td>
</tr>
<tr>
<td>KKLC-12</td>
<td>1.5</td>
<td>0.5-12</td>
<td>215</td>
<td>1050 x 580 x 880</td>
</tr>
<tr>
<td>KKLC-12R</td>
<td>1.5</td>
<td>0.5-12</td>
<td>220</td>
<td>1050 x 580 x 1050</td>
</tr>
<tr>
<td>KKLC-12B</td>
<td>1.5</td>
<td>0.5-12</td>
<td>210</td>
<td>1050 x 580 x 880</td>
</tr>
<tr>
<td>KKLC-12BR</td>
<td>1.5</td>
<td>0.5-12</td>
<td>225</td>
<td>1050 x 580 x 1060</td>
</tr>
<tr>
<td>KKLC-12C</td>
<td>1.5</td>
<td>0.5-12</td>
<td>210</td>
<td>1050 x 580 x 880</td>
</tr>
<tr>
<td>KKLC-12D</td>
<td>1.5</td>
<td>0.5-12</td>
<td>215</td>
<td>1050 x 580 x 880</td>
</tr>
<tr>
<td>KKLC-12DR</td>
<td>1.5</td>
<td>0.5-12</td>
<td>230</td>
<td>1050 x 580 x 1050</td>
</tr>
<tr>
<td>KKLC-15</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>280</td>
<td>1140 X 660 X920</td>
</tr>
<tr>
<td>KKLC-15R</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>305</td>
<td>150 X 660 X 1080</td>
</tr>
<tr>
<td>KKLC-15B</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>285</td>
<td>150 X 660 X 920</td>
</tr>
<tr>
<td>KKLC-15BR</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>305</td>
<td>1150 X 660 X 1080</td>
</tr>
<tr>
<td>KKLC-15C</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>290</td>
<td>1150 X 660 X 1080</td>
</tr>
<tr>
<td>KKLC-15D</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>290</td>
<td>1150 X 660 X 920</td>
</tr>
<tr>
<td>KKLC-15DR</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>310</td>
<td>1150 X 660 X 1080</td>
</tr>
<tr>
<td>KKLC-15M</td>
<td>2.2</td>
<td>0.7-1.5</td>
<td>360</td>
<td>1420 X 650 X 1010</td>
</tr>
<tr>
<td>KKLC-20</td>
<td>3</td>
<td>0.7-2.0</td>
<td>435</td>
<td>1650 x 680 x 1160</td>
</tr>
<tr>
<td>KKLC-10BR</td>
<td>1.5</td>
<td>0.3-1.0</td>
<td>185</td>
<td>920 x 580 x 1020</td>
</tr>
</tbody>
</table>
PIPE BENDING MACHINE

SINGLE HEAD PIPE BENDING MACHINE – FOR ROUND AND SQUARE PIPES

MODEL          KKDWS28S
MAX. PIPE OD X WT       28MM X 2MM
RANGE OF BENDING RADIUS MM  20 – 200
### HYDRAULIC IRON WORKING MACHINE KODOKISUL BRAND

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Punching Pressure Ton</strong></td>
<td>60 Ton</td>
<td>90 Ton</td>
<td>110 Ton</td>
<td>140 Ton</td>
<td>160 Ton</td>
<td>200 Ton</td>
</tr>
<tr>
<td><strong>Maximum capacity</strong></td>
<td>24 x 15</td>
<td>26 x 20</td>
<td>28 x 25</td>
<td>35 x 28</td>
<td>40 x 32</td>
<td>42 x 35</td>
</tr>
<tr>
<td><strong>Diameter x thickness</strong></td>
<td>57 x 8</td>
<td>57 x 10</td>
<td>57 x 12</td>
<td>57 x 16</td>
<td>57 x 18</td>
<td>57 x 22</td>
</tr>
<tr>
<td><strong>Stroke length</strong></td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td><strong>Deep throat model</strong></td>
<td>305</td>
<td>355</td>
<td>400</td>
<td>600</td>
<td>600</td>
<td>700</td>
</tr>
<tr>
<td><strong>Largest hole (std. equipment)</strong></td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
<td>57</td>
</tr>
<tr>
<td><strong>Largest hole (optional )</strong></td>
<td>160</td>
<td>160</td>
<td>160</td>
<td>255</td>
<td>255</td>
<td>255</td>
</tr>
<tr>
<td><strong>Max. section</strong></td>
<td>305</td>
<td>305</td>
<td>305</td>
<td>380</td>
<td>380</td>
<td>390</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>1030</td>
<td>1039</td>
<td>1056</td>
<td>1134</td>
<td>1156</td>
<td>1166</td>
</tr>
<tr>
<td><strong>Flat bar - max. thickness</strong></td>
<td>230 x 20</td>
<td>300 x 20</td>
<td>300 x 25</td>
<td>380 x 30</td>
<td>380 x 35</td>
<td>380 x 35</td>
</tr>
<tr>
<td><strong>Flat bar - max. width</strong></td>
<td>375 x 10</td>
<td>450 x 15</td>
<td>480 x 15</td>
<td>600 x 20</td>
<td>600 x 20</td>
<td>600 x 20</td>
</tr>
<tr>
<td><strong>Angle flange - trim-max 45Deg</strong></td>
<td>100 x 15</td>
<td>120 x 15</td>
<td>120 x 15</td>
<td>120 x 15</td>
<td>120 x 15</td>
<td>120 x 15</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>890</td>
<td>890</td>
<td>890</td>
<td>890</td>
<td>900</td>
<td>900</td>
</tr>
<tr>
<td><strong>90Degree cut</strong></td>
<td>130 x 13</td>
<td>140 x 13</td>
<td>160 x 15</td>
<td>180 x 16</td>
<td>180 x 18</td>
<td>200 x 20</td>
</tr>
<tr>
<td><strong>45Degree miter (true int./ext.)</strong></td>
<td>70 x 10</td>
<td>70 x 10</td>
<td>80 x 10</td>
<td>80 x 10</td>
<td>80 x 10</td>
<td>80 x 10</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>1130</td>
<td>1130</td>
<td>1155</td>
<td>1155</td>
<td>1160</td>
<td>1160</td>
</tr>
<tr>
<td><strong>Round / square</strong></td>
<td>45</td>
<td>50</td>
<td>55/65</td>
<td>55/65</td>
<td>55/65</td>
<td>55/65</td>
</tr>
<tr>
<td><strong>Channel beam (*)</strong></td>
<td>130 x 65</td>
<td>160 x 90</td>
<td>200 x 100</td>
<td>300 x 100</td>
<td>300 x 125</td>
<td>300 x 125</td>
</tr>
<tr>
<td><strong>Tee (*)</strong></td>
<td>90 x 12</td>
<td>90 x 12</td>
<td>90 x 12</td>
<td>100 x 12</td>
<td>120 x 12</td>
<td>150 x 15</td>
</tr>
<tr>
<td><strong>Material thickness</strong></td>
<td>10</td>
<td>12</td>
<td>13</td>
<td>16</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td><strong>Width- rectangle</strong></td>
<td>45</td>
<td>45</td>
<td>52</td>
<td>60</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td><strong>Depth - rectangle</strong></td>
<td>90</td>
<td>90</td>
<td>100</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td><strong>Depth - vee</strong></td>
<td>60</td>
<td>70</td>
<td>70</td>
<td>80</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td><strong>Angle flange - max. profile</strong></td>
<td>100 x 10</td>
<td>100 x 11</td>
<td>100 x 12</td>
<td>100 x 14</td>
<td>100 x 14</td>
<td>110 x 15</td>
</tr>
<tr>
<td><strong>Working height</strong></td>
<td>890</td>
<td>900</td>
<td>900</td>
<td>900</td>
<td>900</td>
<td>900</td>
</tr>
<tr>
<td><strong>Maximum capacity</strong></td>
<td>250 sq x 6</td>
<td>250 sq x 6</td>
<td>250 sq x 6</td>
<td>250 sq x 6</td>
<td>250 sq x 6</td>
<td>250 sq x 6</td>
</tr>
<tr>
<td><strong>Maximum outside diameter</strong></td>
<td>83</td>
<td>83</td>
<td>108</td>
<td>165</td>
<td>165</td>
<td>200</td>
</tr>
<tr>
<td><strong>Bar bend max. capacity</strong></td>
<td>250 x 12</td>
<td>250 x 15</td>
<td>250 x 20</td>
<td>250 x 25</td>
<td>250 x 25</td>
<td>250 x 30</td>
</tr>
<tr>
<td><strong>Sheet bend max capacity</strong></td>
<td>500 x 3</td>
<td>500 x 3</td>
<td>600 x 3</td>
<td>700 x 4</td>
<td>700 x 4</td>
<td>700 x 5</td>
</tr>
<tr>
<td><strong>Punching at a notch station</strong></td>
<td>125</td>
<td>125</td>
<td>145</td>
<td>155</td>
<td>165</td>
<td>175</td>
</tr>
<tr>
<td><strong>Throat depth</strong></td>
<td>125</td>
<td>38 x 7</td>
<td>38 x 8</td>
<td>38 x 10</td>
<td>38 x 12</td>
<td>38 x 13</td>
</tr>
<tr>
<td><strong>Maximum capacity</strong></td>
<td>4 opt 5.5</td>
<td>5.5 opt 7.5</td>
<td>7.5 opt 11</td>
<td>11 opt 13</td>
<td>13 opt 15</td>
<td>15 opt 20</td>
</tr>
<tr>
<td><strong>Motor power ( KW )</strong></td>
<td>1800kg</td>
<td>2600kg</td>
<td>4800kg</td>
<td>6800kg</td>
<td>7800kg</td>
<td>9800kg</td>
</tr>
<tr>
<td><strong>Machine dim. (LxWxH),mm</strong></td>
<td>1640x710x1780</td>
<td>1900x790x1910</td>
<td>2000x800x2030</td>
<td>2700x1120x2160</td>
<td>2700x1120x2160</td>
<td>3400x1320x2460</td>
</tr>
<tr>
<td><strong>Packed dim. (LxWxH),mm</strong></td>
<td>1750x860x1950</td>
<td>1910x860x2000</td>
<td>2150x950x2100</td>
<td>2850x1270x2410</td>
<td>2850x1270x2410</td>
<td>3650x1470x2610</td>
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# LATHE MACHINE

<table>
<thead>
<tr>
<th>Model</th>
<th>KKC6236 - 1000</th>
<th>KKLM6241-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing over bed (mm)</td>
<td>356</td>
<td>410</td>
</tr>
<tr>
<td>Swing over cross slide (mm)</td>
<td>220</td>
<td>255</td>
</tr>
<tr>
<td>Swing in gap (mm)</td>
<td>506</td>
<td>580</td>
</tr>
<tr>
<td>Distance between center (mm)</td>
<td>1000</td>
<td>1500</td>
</tr>
<tr>
<td>Spindle bore (mm)</td>
<td>38</td>
<td>52</td>
</tr>
<tr>
<td>Range of spindle speed (r/min)</td>
<td>45 - 1800</td>
<td>45 – 1800</td>
</tr>
<tr>
<td>Accessories:</td>
<td>3 &amp; 4 Jaw chuck, fixed &amp; travelling steady, driving plate, tools</td>
<td>3 &amp; 4 Jaw chuck, fixed &amp; travelling steady, driving plate, tools</td>
</tr>
</tbody>
</table>
LATHE MACHINE

<table>
<thead>
<tr>
<th>Model</th>
<th>KKCD-LXII-LX-C-1500HD</th>
<th>KKCD-LXII-LX-C-2000HD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing over bed (mm)</td>
<td>600</td>
<td>600</td>
</tr>
<tr>
<td>Swing over cross slide (mm)</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Swing in gap (mm)</td>
<td>730</td>
<td>730</td>
</tr>
<tr>
<td>Distance between center (mm)</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>Spindle bore (mm)</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Range of spindle speed (r/min)</td>
<td>22 – 1800</td>
<td>24 – 1800</td>
</tr>
<tr>
<td>Accessories:</td>
<td>3 &amp; 4 Jaw chuck, fixed &amp; travelling steady, live center, face plate, tools</td>
<td>3 &amp; 4 Jaw chuck, fixed &amp; travelling steady, live center, face plate, tools</td>
</tr>
</tbody>
</table>
# LATHE MACHINE

![Lathe Machine Image](image)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>KKCZ-LXIIC-D/3000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAPACITIES</strong></td>
<td></td>
</tr>
<tr>
<td>Max. swing over bed</td>
<td>1000mm</td>
</tr>
<tr>
<td>Max. swing over cross slide</td>
<td>600mm</td>
</tr>
<tr>
<td>Center distance</td>
<td>3000mm</td>
</tr>
<tr>
<td>Max. swing over gap</td>
<td>1200mm</td>
</tr>
<tr>
<td>Valid length of gap</td>
<td>300mm</td>
</tr>
<tr>
<td>Bed width</td>
<td>500mm</td>
</tr>
</tbody>
</table>

| **HEADSTOCK** | | |
| Spindle hole | 130mm |
| Spindle nose | C:11 or D:11 or D15 |
| Spindle taper | MT#100 |
| Spindle speeds(Number) | 14-750RPM 18 – 900RPM (18 STEPS) |

| **GEARBOX-THREADS & FEEDS** | | |
| Metric threads range (kinds) | 1-240mm(54kinds) |
| Inch threads range (kinds) | 28-1 inch(37kinds) |
| Module threads range (Kinds) | 0.5-60 DP(45kinds) |
| Diametral threads range (kinds) | 30-1 T.P.I(27kinds) |
| Longitudinal feeds range (kinds) | 0.048-22.8 0.05-22.8mm/r(72kinds) |
| Cross feed range(kinds) | 0.016-7.6 0.015-0.48mm/r(72kinds) |
| Rapid feed: Long/Cross | 6/2m/min |
| Lead screw size: Diameter(pitch) | T48mm/12mm |

| **CARRIAGE** | | |
| Cross slide travel | 400mm |
| Compound rest travel | 230mm |
| Size of tool shank | 32x32mm |

| **TAILSTOCK** | | |
| Spindle diameter | 100mm or 120mm |
| Spindle taper | MORSE #5 or #6 |
| Spindle travel | 205mm |

| **MOTOR** | | |
| Main drive motor | 11Kw |
| Coolant pump motor | 0.09Kw |
| Rapid feed motor | 0.18Kw |

| **KGNET** | | |
| Weight: | 3800kg |

**Accessories:**
- 3-Jaw 400mm
- Steady rest 20 – 135
- Center Sleeve
- 4-Jaw 630mm
- Follow Rest 20 – 135
- Tool Post Spanner
## LATHE MACHINE

### MODEL: KKCZ62100C

<table>
<thead>
<tr>
<th>CAPACITIES</th>
<th>KKCZ62100C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. swing over bed</td>
<td>1000mm</td>
</tr>
<tr>
<td>Max. swing over cross slide</td>
<td>685mm</td>
</tr>
<tr>
<td>Center distance</td>
<td>4000mm</td>
</tr>
<tr>
<td>Max. swing over gap</td>
<td>1200mm</td>
</tr>
<tr>
<td>Valid length of gap</td>
<td>300mm</td>
</tr>
<tr>
<td>Bed width</td>
<td>550mm</td>
</tr>
</tbody>
</table>

### HEADSTOCK

- Spindle hole: 105mm
- Spindle nose: C-11 or D-11
- Spindle taper: 1:20
- Spindle speeds(Number): 14-750RPM (18 STEPS)

### GEARBOX-THREADS & FEEDS

- Metric threads range (kinds): 1-240mm (54 kinds)
- Inch threads range (kinds): 28-1 inch (37 kinds)
- Module threads range (Kinds): 0.5-60 DP (27 kinds)
- Diametral threads range (kinds): 30-1 t.p.i (27 kinds)
- Longitudinal feeds range (kinds): 0.05-22.8mm/r (72 kinds)
- Cross feed range (kinds): 0.015-7.6mm/r (72 kinds)
- Rapid feed: Long/Cross: 6/2m/min
- Lead screw size: Diameter/pitch: T48mm/12mm

### CARRIAGE

- Cross slide travel: 420mm
- Compound rest travel: 240mm
- Size of tool shank: 32x32mm

### TAILSTOCK

- Spindle diameter: 100mm
- Spindle taper: MORSE #6
- Spindle travel: 205mm

### MOTOR

- Main drive motor: 11Kw
- Coolant pump motor: 0.09Kw
- Rapid feed motor: 0.18Kw
- KGNIT

### Center distance:

- 4500kg

---

**Accessories:**
- 3-Jaw 400mm
- Steady rest 20 – 135
- Live Center
- Tool Post Spanner
- 4-Jaw 800mm
- Follow Rest 20 - 135
- Center Sleeve
Conventional Pipe Thread Lathe

Model CW-VI-VI-III-VI x1500

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle Bore</td>
<td>360 mm</td>
</tr>
<tr>
<td>Swing over Bed</td>
<td>1,000 mm</td>
</tr>
<tr>
<td>Swing over Carriage</td>
<td>640 mm</td>
</tr>
<tr>
<td>Distance between Centers</td>
<td>1,500 mm; 3,000 mm</td>
</tr>
<tr>
<td>Max. Machining Length of Work Piece</td>
<td>1,300 mm; 2,800 mm</td>
</tr>
<tr>
<td>Support capacity between Centers</td>
<td>6 Tons</td>
</tr>
<tr>
<td>Spindle Speed</td>
<td>18 steps, 6.3 to 315 r.p.m.</td>
</tr>
<tr>
<td>Min. Clamping Diameter of Chucks</td>
<td>240 mm</td>
</tr>
<tr>
<td>Metric Threads (Screw-Pitch)</td>
<td>44 kinds; Range: 1 to 120 mm</td>
</tr>
<tr>
<td>Whitworth Threads</td>
<td>37 kinds; Range: 30 to 1+1/8 teeth/inch</td>
</tr>
<tr>
<td>Module Threads</td>
<td>46 kinds; Range: 0.5 to 60 mm</td>
</tr>
<tr>
<td>Rapid Traverse</td>
<td></td>
</tr>
<tr>
<td>Saddle</td>
<td>3,740 mm/min</td>
</tr>
<tr>
<td>Cross Slide</td>
<td>1,840 mm/min</td>
</tr>
<tr>
<td>Top Slide</td>
<td>935 mm/min</td>
</tr>
<tr>
<td>Travel of Cross Slide</td>
<td>520 mm</td>
</tr>
<tr>
<td>Travel of Tool Post</td>
<td>300 mm</td>
</tr>
<tr>
<td>Diameter of Tailstock Sleeve</td>
<td>160 mm</td>
</tr>
<tr>
<td>Taper of Tailstock Sleeve</td>
<td>Metric No. 80</td>
</tr>
<tr>
<td>Max. Movement of Tailstock Sleeve</td>
<td>300 mm</td>
</tr>
<tr>
<td>Taper Turning</td>
<td></td>
</tr>
<tr>
<td>Max. Cutting Length</td>
<td>300 mm</td>
</tr>
<tr>
<td>Taper Turning, ±1:4</td>
<td></td>
</tr>
<tr>
<td>Power of Main Power</td>
<td>22 kW</td>
</tr>
<tr>
<td>Power of Rapid Motor</td>
<td>1.5 kW</td>
</tr>
<tr>
<td>Power of Pump Motor</td>
<td>0.55 kW</td>
</tr>
<tr>
<td>Power of Cooling Motor</td>
<td>0.15 kW</td>
</tr>
<tr>
<td>Electrical Power as User’s Need</td>
<td></td>
</tr>
<tr>
<td>Net Dimension of the Machine</td>
<td>6,100×2,000×1,790 mm</td>
</tr>
<tr>
<td>Packing Dimension of the Machine</td>
<td>6,360×2,120×2,280 mm</td>
</tr>
<tr>
<td>N. W.</td>
<td>14,000 Kgs; G. W.: 17,100 Kgs</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td>Independent Four Jaws Chuck</td>
<td>Diameter of 80 mm, 2 sets</td>
</tr>
<tr>
<td>Steady Rest, Range 50 to 470 mm, 1 set</td>
<td></td>
</tr>
<tr>
<td>Follow Rest, Range 50 to 220 mm, 1 set</td>
<td></td>
</tr>
<tr>
<td>Taper Turning Device with Length 300 mm, 1 set</td>
<td></td>
</tr>
<tr>
<td>Out Board Support, 1 piece</td>
<td></td>
</tr>
<tr>
<td>Dead Center, 1 piece</td>
<td></td>
</tr>
<tr>
<td>Living Center, 1 set</td>
<td></td>
</tr>
<tr>
<td>Coolant System</td>
<td></td>
</tr>
<tr>
<td>Work Light</td>
<td></td>
</tr>
<tr>
<td>Special Tools</td>
<td></td>
</tr>
</tbody>
</table>

Optional Accessories (extra charge)
- Support with two rollers, Range 285 to 650 mm
- Motorized Tailstock
CRANK SHAFT GRINDER

Features

The crankshaft grinder Model KK8260A is modified on the base of the Model Model KK8260 and intended for use in the automobile, Tractor, diesel engine works and their repair shops to grind the journals and crankpins of crankshafts.

Three different work speeds are obtainable by making use of the belts in the workhead. One word type chucks are used in the headstock and tailstock. Friction coupling is used in the headstock transmission chain for its easy adjustment. Table traverse is operated either by hand or by power. Wheelhead rapid approach and withdrawal is effected through hydraulic means. The wheel spindle being of 80mm in diameter has good rigidity and strength. Use is made of roller ways for wheelhead movement. The bed ways and wheelhead are lubricated in an automatic cycle by means of the oil pump.

Main specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>KK8260A×16</th>
<th>KK8260A×18</th>
<th>KK8260A×20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. work diameter × Max. length</td>
<td>Φ580×1600 mm</td>
<td>Φ580×1800 mm</td>
<td>Φ580×2000 mm</td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. swing over table</td>
<td>580 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work diameter around</td>
<td>Φ30×100 mm</td>
<td>Φ50×120 mm</td>
<td></td>
</tr>
<tr>
<td>Throw of crankshaft</td>
<td>110 mm</td>
<td>120 mm</td>
<td></td>
</tr>
<tr>
<td>Max. work length around in 3 law chuck</td>
<td>1400 mm</td>
<td>1600 mm</td>
<td>1800 mm</td>
</tr>
<tr>
<td>Max. work length around between centres</td>
<td>1600 mm</td>
<td>1800 mm</td>
<td>2000 mm</td>
</tr>
<tr>
<td>Max. work weight</td>
<td>120 kg</td>
<td>150 kg</td>
<td></td>
</tr>
<tr>
<td>Headstock</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Centre height</td>
<td>300 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Work speed (rpm)</td>
<td>25, 45, 95</td>
<td>25, 45, 65, 100</td>
<td></td>
</tr>
<tr>
<td>Wheelhead</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. cross movement</td>
<td>185 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheelfeed rapid approach &amp; withdrawal</td>
<td>100 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheelfeed feed per turn of cross feed handwheel</td>
<td>1 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel feed generated of cross feed handwheel</td>
<td>0.005 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grinding wheel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel spindle speed</td>
<td>740, 890 rpm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel peripheral speed</td>
<td>25.6 – 35 m/sec</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel size</td>
<td>Φ900x32xΦ305 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table traverse per turn of handwheel coast</td>
<td>5.88 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table traverse per turn of handwheel fine</td>
<td>1.68 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table swivel (taper18/100)</td>
<td>5°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table swivel per grad of scale (taper 1:50)</td>
<td>10°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall capacity of motor</td>
<td>9.82 kw</td>
<td>11.2 kw</td>
<td></td>
</tr>
<tr>
<td>Overall dimension (LxWxH) (mm)</td>
<td>4166x2037x1584</td>
<td>4900x2037x1584</td>
<td></td>
</tr>
<tr>
<td>Weigh</td>
<td>6000 kg</td>
<td>6200 kg</td>
<td>7000 kg</td>
</tr>
<tr>
<td>Working accuracy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ovality (new standard)</td>
<td>0.005</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cylindricity</td>
<td>0.01</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Roughness Ra</td>
<td>0.21</td>
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## Universal Knee Type Milling Machine

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit</th>
<th>KXXW6032A</th>
<th>KXXW6136</th>
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<tbody>
<tr>
<td><strong>Table:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Size</td>
<td>mm</td>
<td>1320 X 320</td>
<td>1320 X 360</td>
</tr>
<tr>
<td>Slot</td>
<td></td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Size (Width)</td>
<td>mm</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>Centre Distance</td>
<td>mm</td>
<td>90</td>
<td>95</td>
</tr>
<tr>
<td>Max. Load of Table</td>
<td>Kg</td>
<td>300</td>
<td>400</td>
</tr>
<tr>
<td>Swivel of Table</td>
<td>Deg.</td>
<td>±35°</td>
<td>±35°</td>
</tr>
<tr>
<td><strong>Machine Range:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Longitudinal Travel (Manual/Auto)</td>
<td>mm</td>
<td>800/750</td>
<td>1000</td>
</tr>
<tr>
<td>Table Cross Travel (Manual/Auto)</td>
<td>mm</td>
<td>300</td>
<td>290/280</td>
</tr>
<tr>
<td>Table Vertical Travel (Manual/Auto)</td>
<td>mm</td>
<td>400</td>
<td>400</td>
</tr>
<tr>
<td><strong>Main Spindle:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle Taper</td>
<td></td>
<td>7 : 24 iso50</td>
<td>7 : 24 iso50</td>
</tr>
<tr>
<td>Spindle Speed / Step</td>
<td>rpm</td>
<td>58 – 1800/12</td>
<td>58 – 1800/12</td>
</tr>
<tr>
<td>Vertical Spindle Axis to Column Surface</td>
<td>mm</td>
<td>320</td>
<td>320</td>
</tr>
<tr>
<td>Vertical Spindle Nose to Table Surface</td>
<td>mm</td>
<td>0 - 341</td>
<td>0 – 341</td>
</tr>
<tr>
<td>Horizontal Spindle Axis to Table Surface</td>
<td>mm</td>
<td>0 - 400</td>
<td>0 – 400</td>
</tr>
<tr>
<td>Horizontal Spindle Axis to arm bottom</td>
<td>mm</td>
<td>175</td>
<td>175</td>
</tr>
<tr>
<td>Arm Travel</td>
<td>mm</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td><strong>Feeds:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Longitudinal / Cross Feeds</td>
<td>mm / min</td>
<td>20 – 380/8</td>
<td>22 – 420/8</td>
</tr>
<tr>
<td>Vertical / Step</td>
<td>mm / min</td>
<td>6 – 126/8</td>
<td>10 – 168/8</td>
</tr>
<tr>
<td>Longitudinal / Cross Rapid Speed</td>
<td>mm / min</td>
<td>1160</td>
<td>1290 / 1205</td>
</tr>
<tr>
<td>Rapid Traverse Vertical</td>
<td>mm / min</td>
<td>390</td>
<td>513</td>
</tr>
<tr>
<td><strong>Power:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Motor</td>
<td>Kw</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Feed Motor (X/Y/Z)</td>
<td>Kw</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>Coolant Motor</td>
<td>Kw</td>
<td>0.09</td>
<td>0.09</td>
</tr>
<tr>
<td><strong>Others:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Package Dimension</td>
<td>cm</td>
<td>207 X 170 X 225</td>
<td>207 X 192 X 225</td>
</tr>
<tr>
<td>Overall Dimension</td>
<td>cm</td>
<td>190 X 172 X 179</td>
<td>202.5 X 207 X 195</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Kg</td>
<td>2100</td>
<td>2200</td>
</tr>
</tbody>
</table>

**Accessories:**

1. Arbor Support
2. Vertical Head
3. Slotting Attachment
4. Set of Chucks with Collets
5. Tools
# Universal Knee Type Milling Machine

## Features

These machine are mini type machine, used for milling flat, inclined face, vertical surface and slots by employing disc cutters, angular cutters, formed cutters and face metal milling cutters. When mounted with the vertical milling attachments, the machine will be able to perform milling operations in various directions. When mounted with rotary table, helix groove and ring formed can be milled. With the universal dividing head, the machine will be able to cut spur gear M=3mm, helical gears, bevel gears, etc.

Owing to the versatile applications, the machine is well suited for repair shops and tool rooms for single piece and lot production.

<table>
<thead>
<tr>
<th>Model</th>
<th>Unit</th>
<th>KK57-3C</th>
<th>KXX6125A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Table Size</td>
<td>mm</td>
<td>240 X 810</td>
<td>250 X 900</td>
</tr>
<tr>
<td>T Slots (NxWxD)</td>
<td>mm</td>
<td>3 X 14 X 54</td>
<td></td>
</tr>
<tr>
<td>Longitudinal Travel X</td>
<td>Mm</td>
<td>480</td>
<td>500</td>
</tr>
<tr>
<td>Cross Travel Y</td>
<td>Mm</td>
<td>165</td>
<td></td>
</tr>
<tr>
<td>Vertical Travel Z</td>
<td>mm</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>Max. Rotary Angle of Table</td>
<td>/</td>
<td>±45°</td>
<td></td>
</tr>
<tr>
<td>Arbor Diameter</td>
<td>Mm</td>
<td>/</td>
<td>Ø 22 Ø 27</td>
</tr>
<tr>
<td>Min. Distance between Spindle Center to Table</td>
<td>Mm</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Spindle Hole Taper</td>
<td>/</td>
<td>MT3 or 7: 24 30#</td>
<td></td>
</tr>
<tr>
<td>Spindle Speed Steps</td>
<td>/</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Spindle Speed Ranges</td>
<td>r/min</td>
<td>31 – 570</td>
<td>32 – 1250</td>
</tr>
<tr>
<td>Distance Between Spindle Center to Table</td>
<td>Mm</td>
<td>160</td>
<td></td>
</tr>
<tr>
<td>Feed Speed Steps</td>
<td>/</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Feed Speed Ranges</td>
<td>Longitudinal X</td>
<td>Mm/min</td>
<td>7.3 – 111.9</td>
</tr>
<tr>
<td></td>
<td>Cross Y</td>
<td>Mm/min</td>
<td>14.9 – 226.3</td>
</tr>
<tr>
<td></td>
<td>Vertical Z</td>
<td>mm/min</td>
<td>6 – 90.4</td>
</tr>
<tr>
<td>Main Motor Power</td>
<td>Kw</td>
<td>1.5</td>
<td>2/2.4</td>
</tr>
<tr>
<td>Main Motor Speed</td>
<td>r/min</td>
<td>1430</td>
<td>0.12</td>
</tr>
<tr>
<td>Cooling Pump Power</td>
<td>Kw</td>
<td>0.12</td>
<td>25</td>
</tr>
<tr>
<td>Overall Size</td>
<td>mm</td>
<td>1400X1240X1478</td>
<td>1400X1240X1478</td>
</tr>
<tr>
<td>Packing Box Size</td>
<td>mm</td>
<td>1500X1340X1760</td>
<td>1500X1340X1760</td>
</tr>
<tr>
<td>Net Weight</td>
<td>Kg</td>
<td>1200</td>
<td>1300</td>
</tr>
</tbody>
</table>

## Accessories:
1. Universal Dividing Head
2. Arbor Support
3. Vertical Head
4. Rotary Table
5. Tools
UNIVERSAL MILLING MACHINE

Specifications Model 25RU

<table>
<thead>
<tr>
<th>Working Surface of Table</th>
<th>250 X 1250 mm</th>
<th>Spindle speeds</th>
<th>Number</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed grooves of table:</td>
<td></td>
<td></td>
<td>Number</td>
<td>3</td>
</tr>
<tr>
<td>Width</td>
<td>14 mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Space</td>
<td>55 mm</td>
<td>Widths</td>
<td>Number</td>
<td>13</td>
</tr>
<tr>
<td>Longitudinal table traverse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand</td>
<td>810 mm</td>
<td>Longitudinal and cross</td>
<td>14-900 mm/min</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>800 mm</td>
<td>Vertical</td>
<td>4-250 mm/min</td>
<td></td>
</tr>
<tr>
<td>Cross table traverse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand</td>
<td>235 mm</td>
<td>Rapid Feeds</td>
<td>Longitudinal and cross</td>
<td>2800 mm/min</td>
</tr>
<tr>
<td>Power</td>
<td>225 mm</td>
<td>Vertical</td>
<td>800 mm/min</td>
<td></td>
</tr>
<tr>
<td>Vertical table traverse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hand</td>
<td>350 mm</td>
<td>Main motor</td>
<td>Output</td>
<td>4 kw</td>
</tr>
<tr>
<td>Power</td>
<td>340 mm</td>
<td>Speed</td>
<td>1500/1800 rpm</td>
<td></td>
</tr>
<tr>
<td>Table swivels</td>
<td>±45°</td>
<td>Feed motor</td>
<td>Output</td>
<td>1.1 kw</td>
</tr>
<tr>
<td>Taper in spindle</td>
<td>No. 40 ISA</td>
<td>Speed</td>
<td>1500/1800 rpm</td>
<td></td>
</tr>
<tr>
<td>Distance between spindle and table surface</td>
<td>0 – 350 mm</td>
<td>Dimensions</td>
<td>1900x1760x1500 mm</td>
<td></td>
</tr>
<tr>
<td>Distance between spindle to crossbar</td>
<td>140 mm</td>
<td>Mass</td>
<td>1700 kg</td>
<td></td>
</tr>
</tbody>
</table>

Accessories:
1. Vertical milling head
2. Rotary Table
3. Machine vice
4. Arbor ø 22 x 400 ø 27 x 500
5. Longitudinal dividing head
6. Arbor ø 40 x 500
RADIAL DRILLING MACHINE

The radial drilling machine. Model KKZ30 series, capable of drilling, counter-boring, boring, reaming, spot-facing, tapping and other similar utilities. It is widely used in manufacturing machinery, for processing small and medium size machinery parts and also suitable for being used in repairing. The machine was adopted strengthened type of spindle so that it can increase the rigidity of spindle and widens the scope of it’s utility. The spindle has a wide range of turning speed and feeding speed, which makes the operation more convenient and more precise. The dimension processed can be set up before working, this allow it stop feeding automatically and has more accuracy.

<table>
<thead>
<tr>
<th>Model</th>
<th>KKZ3032X10</th>
<th>KKZ3040X12</th>
<th>KKZ3050X16</th>
<th>KKZ3063X20</th>
<th>KKZ3080X25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. drilling diameter mm</td>
<td>32</td>
<td>40</td>
<td>50</td>
<td>63</td>
<td>80</td>
</tr>
<tr>
<td>Distance between spindle axis and column Mm max/min</td>
<td>1000/280</td>
<td>1200/300</td>
<td>1600/350</td>
<td>2000/380</td>
<td>2500/500</td>
</tr>
<tr>
<td>Distance between spindle end face and worktable surface Mm max/min</td>
<td>965/215</td>
<td>1250/300</td>
<td>1220/320</td>
<td>1500/280</td>
<td>2000/550</td>
</tr>
<tr>
<td>Spindle travel mm</td>
<td>250</td>
<td>210</td>
<td>315</td>
<td>410</td>
<td>450</td>
</tr>
<tr>
<td>Spindle taper (Morse) NO.</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Range of spindle speeds r/min</td>
<td>32-2500</td>
<td>80-1870</td>
<td>25-2000</td>
<td>25-1350</td>
<td>16-1250</td>
</tr>
<tr>
<td>Number of spindle speeds</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Range of spindle feeds mm/r</td>
<td>0.06-0.80</td>
<td>0.10-0.30</td>
<td>0.04-3.20</td>
<td>0.04-3.20</td>
<td>0.04-3.20</td>
</tr>
<tr>
<td>Number of spindle feeds</td>
<td>3</td>
<td>3</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Table size mm</td>
<td>370X350X300</td>
<td>550X350X350</td>
<td>600X450X450</td>
<td>660X630X500</td>
<td>1000X800X560</td>
</tr>
<tr>
<td>Travel of headstock mm</td>
<td>720</td>
<td>900</td>
<td>1250</td>
<td>1620</td>
<td>2000</td>
</tr>
<tr>
<td>Max. Travel of arm on column mm</td>
<td>-</td>
<td>650</td>
<td>600</td>
<td>580</td>
<td>1000</td>
</tr>
<tr>
<td>Main motor power Kw</td>
<td>2.2</td>
<td>2.4/3</td>
<td>4</td>
<td>5.5</td>
<td>7.5</td>
</tr>
<tr>
<td>Cooling pump motor Kw</td>
<td>-</td>
<td>0.55</td>
<td>-</td>
<td>0.125</td>
<td>0.125</td>
</tr>
<tr>
<td>Net weight Kg</td>
<td>1700</td>
<td>1500</td>
<td>3500</td>
<td>4600</td>
<td>11000</td>
</tr>
<tr>
<td>Overall dimension mm</td>
<td>1750X840X2100</td>
<td>1700X800X2200</td>
<td>2100X860X2280</td>
<td>2920X1250X2940</td>
<td>3730X1400X3795</td>
</tr>
</tbody>
</table>
Manual Surface Grinding Machine

Features

- The machine can grind various surfaces and complicated profiles. All the three axis feed can be finished manually, and it is especially suitable for the conditions which need no power feed.

- The machine can grind work pieces which are made of steel, casting irons, nonferrous material. It also can be applied to grind nonmetal such as porcelain, stone etc. The machine is used in machining workshop, repair workshop and tools workshop.

- The machine adopt the design style of “+” saddle, cross guideway is lined with TF wearable material, which makes the machine have good guidance quality and moves smoothly.

- The column adopts the double wall structure which makes the column have good rigidity (The column of SG250 adopt steel guide-way, has higher rigidity and precision).

- Multiple labyrinth seal is adopted on spindle quill. It is waterproof and dustproof.

- M818A and M818A adopt manual oil pump lubricate all moveable parts centrally. SG200 and SG250 adopt electromagnetic lubrication points forcibly, and they possess smooth and stable movement.

- The machine has high rigidity, small thermal distortion, smooth movement, little noise, high precision, convenient maintenance.

- SG200 and SG250 have higher rigidity and better stability.

Standard Accessories

<table>
<thead>
<tr>
<th>Feature</th>
<th>Unit</th>
<th>M818A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. width to be ground</td>
<td>mm</td>
<td>220</td>
</tr>
<tr>
<td>Max. length to be ground</td>
<td>mm</td>
<td>470</td>
</tr>
<tr>
<td>Max. height to be ground</td>
<td>mm</td>
<td>350</td>
</tr>
<tr>
<td>Table size</td>
<td>mm</td>
<td>210X450</td>
</tr>
<tr>
<td>Permanent magnetic chuck size (optional)</td>
<td>mm</td>
<td>200X400</td>
</tr>
<tr>
<td>Max. longitudinal travel</td>
<td>mm</td>
<td>500</td>
</tr>
<tr>
<td>Max cross travel</td>
<td>mm</td>
<td>240</td>
</tr>
<tr>
<td>Max. distance from spindle center to table surface</td>
<td>mm</td>
<td>450</td>
</tr>
<tr>
<td>Feed of vertical head wheel</td>
<td>Per rev</td>
<td>1</td>
</tr>
<tr>
<td>Per div</td>
<td>mm</td>
<td>0.005</td>
</tr>
<tr>
<td>Grinding wheel size (ODXWXID)</td>
<td>mm</td>
<td>200X13X31.75</td>
</tr>
<tr>
<td>Spindle speed</td>
<td>r/min</td>
<td>3450(60HZ), 2850(50HZ)</td>
</tr>
<tr>
<td>Power of spindle speed</td>
<td>Kw</td>
<td>1.5</td>
</tr>
<tr>
<td>Max. load capacity (include permanent magnetic chuck)</td>
<td>Kg</td>
<td>128</td>
</tr>
<tr>
<td>Machine weight</td>
<td>Kg</td>
<td>800</td>
</tr>
<tr>
<td>Machine appearance size (LxWxH)</td>
<td>mm</td>
<td>133X1150X1675</td>
</tr>
<tr>
<td>Packing dimension (LxWxH)</td>
<td>mm</td>
<td>1400X1120X1985</td>
</tr>
</tbody>
</table>

Optional Accessories

- Dust collector, Cooling and dust collecting device
- Coolant tank with magnetic separator
- Permanent magnetic chuck
- Parallel dresser
Vertical Drilling Machine

- **Model KKZ5035**
- **Max. Size** 35mm
- **Taper of spindle hole** MT4
- **Distance from center of spindle to the surface of the vertical** 350mm
- **Max. travel of spindle** 180mm
- **Range of spindle speed** 104~1450rpm
- **Max. distance from spindle nose to base plate working table** 770mm
- **Dimension of working table** 560X385mm
- **Width of T-slot** 18mm
- **Distance of T-Slot of working table** 125mm
- **Distance of T-slot of base** 150mm
- **Power of main motor** 1.5Kw
- **Machine dimension** 730X560X2220mm
- **Net weight** 545Kgs

Drilling & Milling Machine

Model KKZAY7032G with drill chuck, milling chuck and collets

- **Max. Drilling Capacity** 32mm
- **Max. Face Mill Capacity** 63mm
- **Max. End Mill Capacity** 20mm
- **Max. distance from spindle nose to table** 440,680mm
- **Max. distance from spindle axis to column** 272.5mm
- **Spindle travel** 130mm
- **Spindle taper** MT3 or R8
- **Step of Speeds** 6
- **Range of spindle speed** 80~1250rpm
- **Swing diameter of headstock** 680mm
- **Swivel angel of head stock**
  - **Horizontal** 360°
  - **Vertical** ±90°
- **Table size** 800 X 240mm
- **Power** 0.75Kw (1Hp)
- **Net weight** 270Kgs
SHAPING MACHINE

BRAND: KODOKISUL

FEATURES:

- The machine is designed for cutting flat and formed surfaces on various kinds of small or medium sized workpiece. It can also be used to cut surfaces in special shape if equipped with special vice or a dividing head and it is suitable for single piece and small batch production as well.

- The main cutting motion of the machine is linear motion being converted from circular motion of gears by link block mechanism. With smooth transmission. Short overrun and less consume of power, the machine is easy to start and stop.

SPECIFICATION:

<table>
<thead>
<tr>
<th>Model</th>
<th>B6050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. shaping length</td>
<td>mm 500</td>
</tr>
<tr>
<td>Number or ram strokes per minute</td>
<td>Times/min 14-80/ 9 Steps</td>
</tr>
<tr>
<td>Distance from lower edge of ram to the surface of the table</td>
<td>mm 370</td>
</tr>
<tr>
<td>Max. travel of tool head</td>
<td>mm 110</td>
</tr>
<tr>
<td>Upper working surface of table (L X W)</td>
<td>mm 440 X 360</td>
</tr>
<tr>
<td>Width of T-slot</td>
<td>mm 16</td>
</tr>
<tr>
<td>Max. horizontal travel of table</td>
<td>mm 500</td>
</tr>
<tr>
<td>Horizontal feed of table per reciprocating stroke of ram</td>
<td>mm 0.085-0.845</td>
</tr>
<tr>
<td>Main motor power</td>
<td>kw 3</td>
</tr>
<tr>
<td>Overall dimensions (L X W X H)</td>
<td>mm 1390X860X1455</td>
</tr>
<tr>
<td>Net weight (approx.)</td>
<td>kgs 1800/2100</td>
</tr>
<tr>
<td>Packing size</td>
<td>mm 215X134X147</td>
</tr>
</tbody>
</table>

Accessories: Swivel Vice
Cylinder Boring Machine

Features

The boring machine is mainly used for reboring engine cylinders of motor cycles, automobiles, automobiles and middle & small-tractors.

Reliable performance, widely use, processing accuracy high productivity
East and Flexible operation
Good rigidity, amount of cutting.

Main specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>KKT806</th>
<th>KKT806A</th>
<th>KKT807</th>
<th>KKT808A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boring diameter</td>
<td>39-60mm</td>
<td>46-80mm</td>
<td>39-70mm</td>
<td>50-85mm</td>
</tr>
<tr>
<td>Max. boring depth</td>
<td>160mm</td>
<td>160mm</td>
<td>170mm</td>
<td></td>
</tr>
<tr>
<td>Spindle speed</td>
<td>486r/min</td>
<td>486r/min</td>
<td>394r/min</td>
<td></td>
</tr>
<tr>
<td>Spindle feed</td>
<td>0.09mm/r</td>
<td>0.09mm/r</td>
<td>0.10mm/r</td>
<td></td>
</tr>
<tr>
<td>Motor power</td>
<td>0.25 Kw</td>
<td>0.25 Kw</td>
<td>0.25 Kw</td>
<td></td>
</tr>
<tr>
<td>Motor speed</td>
<td>1440r/min</td>
<td>1440r/min</td>
<td>1440r/min</td>
<td></td>
</tr>
<tr>
<td>Overall dimension</td>
<td>330x400x1080mm</td>
<td>330x400x1080mm</td>
<td>350x27x72x725mm</td>
<td></td>
</tr>
<tr>
<td>Machine weight</td>
<td>80kg</td>
<td>80kg</td>
<td>48kg</td>
<td></td>
</tr>
</tbody>
</table>
Operation Manual of Metal Circular Saw Machine

Model: KKYJ370S

Cylinder Boring Machine

Features

The boring machine is mainly used for reboring engine cylinders of motor cycles, automobiles and middle & small-tractors. Reliable performance, widely use, processing accuracy, high productivity. Easy and Flexible operation, Good rigidity, amount of cutting.

Main specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>KKT8014A</th>
<th>KKT8016A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boring dimeter</td>
<td>65-140mm</td>
<td>80-165mm</td>
</tr>
<tr>
<td>Max. boring depth</td>
<td>300mm</td>
<td>400mm</td>
</tr>
<tr>
<td>Spindle speed</td>
<td>250,380r/min</td>
<td>200,300r/min</td>
</tr>
<tr>
<td>Spindle feed</td>
<td>0.11mm/r</td>
<td>0.12mm/r</td>
</tr>
<tr>
<td>Spindle quick reset</td>
<td>636mm/sec</td>
<td>780mm/sec</td>
</tr>
<tr>
<td>Over dimensions</td>
<td>320x330x850mm</td>
<td>360x345x110mm</td>
</tr>
<tr>
<td>Machine weight</td>
<td>62kg</td>
<td>85kg</td>
</tr>
</tbody>
</table>
**HYDRAULIC HACKSAW MACHINE**
**MODEL KKG7125**
**BRAND KODOKISUL**
ROUND BAR 250MM
SHAPE BAR 220 X 220MM
OBLIQUE SAWING 45˚
SAW SIZE 450 X 45 X 2.25MM
MOTOR POWER 3.22KW
OVERALL DIMENSION 1490 X 910 X 960MM
NET WEIGHT 600KGS

**Iron Rod Cutter**
Breaking capability 6-40mm round steel, 6-32mm spiral steel, breaking frequency 32per/min, power 3 Kw, dimension 1200x500x680

**Hydraulic Press 30/50/100 Tons**

**HYDRAULIC NOTCHING MACHINE**
**MODEL KKQF28Y-4X200**
Cutting angle fixed
Cutting thickness 4mm
Cutting length 200mm
Cutting angle range 90˚
Power 3 Kw
Dimension 100X100X120mm

**MAGNETIC BASE DRILLING MACHINE**

<table>
<thead>
<tr>
<th>Model</th>
<th>Drilling capacity (mm)</th>
<th>Motor</th>
<th>Rated Input (Kw)</th>
<th>Max. Attraction (N)</th>
<th>Max. Travel (mm)</th>
<th>No Load Speed (rpm)</th>
<th>Net Weight (Kgs)</th>
<th>Packing Size (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>KKJ1C-YY-2511</td>
<td>2</td>
<td>220V/1ph</td>
<td>1100</td>
<td>2500</td>
<td>2 0</td>
<td>330</td>
<td>26</td>
<td>50x58x25</td>
</tr>
<tr>
<td>KKJ3C-YY-32</td>
<td>32</td>
<td>380V/3ph</td>
<td>1300</td>
<td>13000</td>
<td>220</td>
<td>150</td>
<td>57</td>
<td>56x63x25</td>
</tr>
</tbody>
</table>
Hydraulic Hand Punch Machine

Die Size 12mm, 14mm, 16mm, 18mm

A.C. Arc Welding Machine
Series BX1-250

Tool Grinder

Industrial Oven For Tool Hardening

Vertical Boring Machine

<table>
<thead>
<tr>
<th>Model</th>
<th>KKT8014A</th>
<th>KKT8016A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boring diameter</td>
<td>65-140mm</td>
<td>80-165mm</td>
</tr>
<tr>
<td>Max. boring depth</td>
<td>300mm</td>
<td>400mm</td>
</tr>
<tr>
<td>Spindle speed</td>
<td>250, 380 r/min</td>
<td>200, 300 r/min</td>
</tr>
<tr>
<td>Spindle feed</td>
<td>0.11 mm/r</td>
<td>0.12 mm/r</td>
</tr>
<tr>
<td>Spindle quick reset</td>
<td>636 mm/sec</td>
<td>780 mm/sec</td>
</tr>
<tr>
<td>Overall dimension</td>
<td>320x330x850mm</td>
<td>360x345x1100mm</td>
</tr>
<tr>
<td>Machine weight</td>
<td>62 Kgs</td>
<td>85 Kgs</td>
</tr>
</tbody>
</table>

Portable Hardness Tester
Direct display of hardness values in the Rockwell C scale (HRC)
Large measurement range - 20 to 70 HRC
High degree of accuracy - ± 1 HRC
Minimum layer thickness: 0.7mm
Automatic switching on and off
Simple handling and low test cost
Suitable for iron-based metallic materials

Gasoline Engine Washing Machine,
Brand KODKISUL
Engine type OHV 4-5 stroke, complete with accessories 5mm pressure hose, with quick connect performance, with low oil protection professional grade insulated trigger gun with safety lock-off, brass unloader valve, pneumatic tires with tube, quick connect nozzles low/high pressure detergent injection
# ACCESSORIES

<table>
<thead>
<tr>
<th>3 &amp; 4 Jaw Chucks</th>
<th>Tool post Grinder Internal &amp; External</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Dividing Head</td>
<td>Machine Swivel Vice</td>
</tr>
<tr>
<td>Guillotine Cutting Blades</td>
<td>Upper &amp; Lower die for Press Brake Machine</td>
</tr>
<tr>
<td>Rotary Table</td>
<td>Magnetic Table</td>
</tr>
</tbody>
</table>
POWER DISTRIBUTION TRANSFORMER

"TAE DONG GANG-TOL"

TECHNICAL SPECIFICATIONS
(Three phase & Oil immersed, Designed for Both Indoor & Outdoor Operations)
Cooling: ONAN    Winding: Copper

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Rated Power</th>
<th>VOLTAGE</th>
<th>H.V. Tap.</th>
<th>H.L. Tap.</th>
<th>Connection group</th>
<th>LOSSES</th>
<th>Impedance volt.</th>
<th>OPERATIONAL CONDITIONS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KVA</td>
<td>HV</td>
<td>LV</td>
<td>%</td>
<td></td>
<td>No-Load</td>
<td>Load</td>
<td>Freq</td>
<td>Mounting Altitude (Max.)</td>
</tr>
<tr>
<td>TOL 100/11</td>
<td>100</td>
<td>11</td>
<td>0.415</td>
<td>-</td>
<td>-</td>
<td>W</td>
<td>W</td>
<td>%</td>
<td>Hz</td>
</tr>
<tr>
<td>TOL 300/11</td>
<td>300</td>
<td>11</td>
<td>0.415</td>
<td>+2x 2.5</td>
<td>Dyn11</td>
<td>670</td>
<td>3,650</td>
<td>4</td>
<td>50</td>
</tr>
<tr>
<td>TOL 500/11</td>
<td>500</td>
<td>11</td>
<td>0.415</td>
<td>+2x 2.5</td>
<td>Dyn11</td>
<td>980</td>
<td>5,300</td>
<td>4.5</td>
<td>50</td>
</tr>
</tbody>
</table>

POWER DISTRIBUTION TRANSFORMER “TAE DONG GANG-TOL’
METAL CRAFT

M0-17 M0-07 M0-09 M0-11

M7-28 M4-06 M3-03 M3-90
BevelBox

- Warning label
- Metal shell
- Membrane
- LCD display
- Battery cover
- Zero setting/Conversion between absolute measurement and relative measurement
- Strong magnet
- Hold function to freeze the measurement
- V type stand for easy sticking on round thing like steel tube or other metal cylinder

**PACK INF.**

- Unit size of product: 60mm x 60, 8mm x 33mm
- Unit weight of product: 193g ± 1.5g
- Package: Color box
- Accessory: 3V CR2032 Lithium Battery, Instruction, Leather pouch
- Size of unit package: 70mm x 43mm x 25mm
- Unit weight with package: 261g
Digital Level

High accuracy vial
Large LCD
Digital level module
Aluminum framework
High accuracy vial

PACK INF.
Unit size of product: 600mm x 22mm x 57mm
Unit weight of product: 655g ± 1.5g
Package: Yellow hand bag
Accessory: 3V (1.5V x 2), Alkaline battery, Instruction
Size of unit package: 650mm x 75mm x 40mm
Unit weight with package: 700g
Digital Angle Finder

- Aluminum fixing blade
- Aluminum moving blade
- Large LCD
- Membrane
- High accuracy vial

**PACK INF.**

- Unit size of product: 268mm x 50mm x 30mm
- Unit weight of product: 240g ± 1.5g
- Package: Clamshell
- Accessory: 3V CR2032 Lithium Battery, Leaflet
- Size of unit package: 125mm x 32mm x 325mm
- Unit weight with package: 310g