DIVIDING EQUIPMENT
**UNIVERSAL TILTING ROTARY TABLE**  
*Model: HUT-300*  
- **QUICK MANUAL INDEXING.**  
- Suitable for milling, boring, shaping, drilling, dividing, setting angles and for circular cutting.  
- Tilting range of 90 degrees from horizontal to vertical position. For the tilting operation each turn of the handwheel tilts the table by 3 degrees and 5 minutes.  
- 24 indexing holes around the edge of the table allow quick manual indexing.  
- Graduations are large and clearly marked for quick and easy setting of complex angles.

**OPTIONAL ACCESSORIES:**  
- Tail Stock  
- Dividing Plate Set  
- 7”, 8” or 9” 3-Jaw Chuck

---

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>TABLE DIAMETER (A)</th>
<th>TABLE HEIGHT HORIZONTAL (B)</th>
<th>TABLE HEIGHT VERTICAL (C)</th>
<th>CENTER HEIGHT VERTICAL (D)</th>
<th>E</th>
<th>F</th>
<th>GEAR RATIO</th>
<th>CENTER HOLE</th>
<th>DIRECT INDEXING</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-01</td>
<td>HUT-300</td>
<td>ø300</td>
<td>185</td>
<td>405</td>
<td>228</td>
<td>336</td>
<td>444</td>
<td>90:1</td>
<td>MT-5</td>
<td>24-div.</td>
<td>93</td>
</tr>
</tbody>
</table>

### NUMBER OF HOLES:  
- **A Plate:** 9, 28, 34, 41, 47, 10, 29, 35, 43, 49  
- **B Plate:** 21, 31, 37, 44, 53, 26, 32, 38, 46, 59  
- **C Plate:** 61, 71, 77, 83, 91, 67, 73, 79, 89, 97

---

**D-02**  
**Dividing Plate Set**  
*For HUT-300*  
*Model: HUT-300DP*

---

**D-03**  
**Tail Stock**  
*For HUT-300*  
*Model: HUT-300TS*

---

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>Center Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Max</td>
<td>Min</td>
<td></td>
<td></td>
<td>Max</td>
</tr>
<tr>
<td>D-03</td>
<td>HUT-300TS</td>
<td>200</td>
<td>196</td>
<td>190</td>
<td>16</td>
<td>230</td>
</tr>
</tbody>
</table>
D-04
SUPER DIVIDER
Model: HSD-7"

- Superior accuracy
- “One-Touch” Operation
- Saves energy

OPTIONAL ACCESSORY:
- 7” 3-Jaw Chuck

SPECIFICATIONS  (Material: FCD 55, Ductile Iron)  

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>ITEM</th>
<th>C</th>
<th>D1</th>
<th>E1</th>
<th>E2</th>
<th>W1</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-04</td>
<td>HSD-7&quot;</td>
<td>MD 192-24</td>
<td>138</td>
<td>57/16&quot;</td>
<td>192</td>
<td>79/16&quot;</td>
<td>230</td>
<td>91/16&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>L1</th>
<th>L2</th>
<th>L3</th>
<th>L4</th>
<th>Internal Dia. (d2)</th>
<th>Permissible Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-04</td>
<td>HSD-7&quot;</td>
<td>260</td>
<td>10 1/4&quot;</td>
<td>160</td>
<td>6 1/4&quot;</td>
<td>273</td>
<td>10 3/4&quot;</td>
</tr>
</tbody>
</table>
EASY SELECTION OF DIVIDING POSITIONS
The divisions are easily and quickly set by simply turning the Selector Pins through half a turn with a Screwdriver.

ONE ACTION POSITIONING
Only one hand is required to unclamp, index and clamp the Table due to the unique ‘HOMGE’ design. Lever action is light and quick.

OPERATION
• Set the divisions by turning the required Selector Pins through half a turn with a Screw Driver.
• Moving the Lever clockwise will unclamp the Table and rotate it to the next selected division.
• The Table will be stopped at the division by the plunger.
• The Table is clamped when the Lever is returned to its original position.

CLAMP FORCE ADJUSTMENT
• Turn the divider to view the underside.
• Loosen the 4 bolts in the slotted holes and rotate the plate in (+) direction to increase clamping force or in (-) direction to reduce the clamping force.
• Place Lever in unclamped position and rotate the Table by hand to check the amount of clamping force on the Table.
• When the required clamping force has been set tighten the 4 Screws.

CAUTION
• Do not move the Lever until the Divider has been fitted on the machine table. The Lever can only be operated once the unit is clamped firmly on the machine.
• Always return the Lever to the clamped position after each movement to prevent jamming.
• Do not force the Lever if it jams through mis-operation, simply turn the Selector Pin to the passing position in order to free the Lever.
• Do not commence machining until the plunger has stopped the Table from rotating and the Lever has been returned to the clamped position.
DIVIDING EQUIPMENT

D-05~06 SEMI-UNIVERSAL DIVIDING HEAD
Model: BS-0, BS-1

Semi-Universal Dividing Head is a simplified type of Universal Index Center and can be used for direct and indirect dividing. No accessories for the differential dividing and spiral work are included, but the whole construction of the dividing head and tailstock are identical with those of the universal type. The unit has a Direct Indexing Plate with 24 holes enabling the direct dividing of 2, 3, 4, 6, 8, 12 and 24 divisions. Three further Indexing Plates are provided as standard to facilitate indirect dividing of all divisions from 2 to 50 and also most useful divisions up to 380.


OPTIONAL ACCESSORY:
• 3-Jaw Chuck
  4” or 5” 3-Jaw Chuck for BS-0
  5” or 6” 3-Jaw Chuck for BS-1

SEMI-UNIVERSAL DIVIDING HEAD BS-0 & BS-1

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-05 BS-0</td>
<td>189</td>
<td>77/16</td>
<td>160</td>
<td>69/64</td>
<td>100</td>
<td>315/16</td>
<td>173</td>
<td>61/16</td>
<td>16</td>
</tr>
<tr>
<td>D-06 BS-1</td>
<td>293</td>
<td>11/32</td>
<td>210</td>
<td>81/64</td>
<td>128</td>
<td>53/32</td>
<td>220</td>
<td>821/32</td>
<td>16</td>
</tr>
</tbody>
</table>

TAIL-STOCK FOR SEMI-UNIVERSAL DIVIDING HEAD BS-0 & BS-1

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>Taper of Center</th>
<th>Diameter of Spindle hole</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-05 BS-0</td>
<td>90</td>
<td>33/64</td>
<td>105</td>
<td>49/64</td>
<td>16</td>
<td>5/8</td>
<td>100</td>
<td>315/16</td>
<td>63/64</td>
</tr>
<tr>
<td>D-06 BS-1</td>
<td>108</td>
<td>41/14</td>
<td>134</td>
<td>51/64</td>
<td>16</td>
<td>5/8</td>
<td>128</td>
<td>53/32</td>
<td>71/4</td>
</tr>
</tbody>
</table>

STANDARD ACCESSORIES:
DIVIDING PLATE A, B, C.
NUMBER OF HOLES OF DIVIDING PLATE (WORM GEAR REDUCTION RATIO 40:1)

<table>
<thead>
<tr>
<th>Number of holes</th>
<th>Plate A</th>
<th>Plate B</th>
<th>Plate C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate A</td>
<td>15</td>
<td>21</td>
<td>37</td>
</tr>
<tr>
<td>Plate B</td>
<td>16</td>
<td>23</td>
<td>39</td>
</tr>
<tr>
<td>Plate C</td>
<td>17</td>
<td>27</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>29</td>
<td>43</td>
</tr>
<tr>
<td></td>
<td>19</td>
<td>31</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>33</td>
<td>49</td>
</tr>
</tbody>
</table>
**UNIVERSAL DIVIDING HEAD**

Model: **BS-2**

The HOMGE'S Universal Dividing Head is designed for all types of gear cutting. Precision dividing and spiral dividing (except Type BS-0, and BS-1) work with greater precision and efficiency than has been possible before. The center face can be tilted from a horizontal position of 90° down to -10° from vertical, and inclinations can be read off a scale graduated in degrees. The center is built to the highest engineering standards and is factory inspected and tested to ensure complete satisfaction. The ratio of worm to gear is 40:1.

**REMARK:** “Operation and Service Manual” is included for reference.

---

**OPTIONAL ACCESSORY:**

- **3-Jaw Chuck**
  - 6” or 7” 3-Jaw Chuck for BS-2

---

**UNIVERSAL DIVIDING HEAD BS-2**

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>H</th>
<th>h</th>
<th>a</th>
<th>b</th>
<th>g</th>
<th>Taper of center</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-07</td>
<td>BS-2</td>
<td>365</td>
<td>143/32</td>
<td>272</td>
<td>1045/64</td>
<td>236</td>
<td>919/64</td>
<td>132.7</td>
<td>515/64</td>
<td>213</td>
</tr>
</tbody>
</table>

**TAIL STOCK FOR UNIVERSAL DIVIDING HEAD BS-2**

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>A1</th>
<th>a1</th>
<th>b1</th>
<th>g1</th>
<th>H1</th>
<th>Center Height (h2)</th>
<th>Weight (kg)</th>
<th>Measurement M</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-07</td>
<td>BS-2</td>
<td>194</td>
<td>741/64</td>
<td>177</td>
<td>625/64</td>
<td>125</td>
<td>459/64</td>
<td>16</td>
<td>5/8</td>
</tr>
</tbody>
</table>

**STANDARD ACCESSORIES:**

DIVIDING PLATE A, B, C.

NUMBER OF HOLES OF DIVIDING PLATE (WORM GEAR REDUCTION RATIO 40:1)

<table>
<thead>
<tr>
<th>Number of holes</th>
<th>Plate A</th>
<th>Plate B</th>
<th>Plate C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>23</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>29</td>
<td>31</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>37</td>
<td>39</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td>43</td>
<td>47</td>
<td>49</td>
</tr>
</tbody>
</table>
**SIMPLE INDEXING SPACER**

**Model: CC-6", CC-8"**

The Simple Indexing Spacer can be mounted on milling machines, drilling machines and other machine tools where an indexing facility is required. The 3-jaw chucks of both the CC-6" and CC-8" models have a large through bores of 44mm and 63mm respectively.

These Indexing Spacers are designed for using in horizontal or vertical positions. The master Indexing plate has 24 divisions and is permanently fixed inside the indexer. Divisions of 2, 3, 4, 6, 8 and 12 can also be achieved by the use of the sub-plates, which can be installed quickly following these steps:

1. Open Rear Cover
2. Insert Plate
3. Close Cover
4. Loosen Locking Handle
5. Move Dividing Pin so as to separate it from the Master Plate.
6. Turn the Chuck. When the Master Plate and Sub Plate are aligned the pin will lock into the slot automatically.
7. Fasten Locking Handle ready for machining.

**REMARK:** "Operation and Service Manual" is included for reference.

---

**OPTIONAL ACCESSORIES:**
- **Tail Stock.**
  - TS-4 for CC-6"
  - TS-5 for CC-8"
- **3-Jaw Chuck**
  - 6" 3-Jaw Chuck for CC-6"
  - 8" 3-Jaw Chuck for CC-8"

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>Dividable Number</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>a</th>
<th>b</th>
<th>h</th>
<th>Inner jaw guide block</th>
<th>Outer jaw</th>
<th>Diameter of hole(turret)</th>
<th>Diameter of hole(chuck)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-08</td>
<td>CC-6&quot;</td>
<td>2,3,4,6 8,12,24</td>
<td>260</td>
<td>218</td>
<td>133</td>
<td>167</td>
<td>27</td>
<td>190</td>
<td>110</td>
<td>125</td>
<td>4~42</td>
<td>16</td>
<td>10~156</td>
<td>44</td>
<td>36</td>
</tr>
<tr>
<td>D-09</td>
<td>CC-8&quot;</td>
<td></td>
<td>312</td>
<td>270</td>
<td>157</td>
<td>210</td>
<td>28</td>
<td>220</td>
<td>135</td>
<td>150</td>
<td>4~62</td>
<td>16</td>
<td>10~180</td>
<td>63</td>
<td>63</td>
</tr>
</tbody>
</table>

---

**TAIL STOCK FOR CC, CS-TYPE**

**Model: TS-4, 5**

When using indexing spacers in vertical position, these Tail Stocks can be used to support the workpiece and ensure accurate alignment.

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>NO</th>
<th>Order No.</th>
<th>Suitable for</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Center Height</th>
<th>E</th>
<th>F</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Max.</td>
<td>Min.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-12</td>
<td>TS-4</td>
<td>CC-6&quot;/CS-6&quot;</td>
<td>125</td>
<td>147</td>
<td>16</td>
<td>138</td>
<td>115</td>
<td>194</td>
<td>177</td>
</tr>
<tr>
<td>D-13</td>
<td>TS-5</td>
<td>CC-8&quot;/CS-8&quot;</td>
<td>123</td>
<td>194</td>
<td>16</td>
<td>170</td>
<td>130</td>
<td>204</td>
<td>184</td>
</tr>
</tbody>
</table>
D-10~11

SUPER INDEXING SPACER
Model: CS-6”, CS-8”

In addition to all of the features of the Simple Indexing Spacer, the Super Indexing Spacer incorporates a Worm Gear and is supplied with a Face Plate. With the further addition of the optional Dividing Plate Set, it can also be used as a Dividing Head. The WORM is hardened and precision ground to minimize the wear out of the WORM GEAR.

REMARK: “Operation and Service Manual” is included for reference

OPTIONAL ACCESSORIES:
- Tail Stock
  TS-4 for CS-6”
  TS-5 for CS-8”
- Dividing Plate Set
  DP-4 for CS-6”
  DP-5 for CS-8”
- 3-Jaw Chuck
  6” 3-Jaw Chuck for CS-6”
  8” 3-Jaw Chuck for CS-8”

D-14

DIVIDING PLATE SET
Model: DP-4, 5

NUMBER OF HOLES:
DP-4, 5
A Plate... 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59
B Plate... 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99

DP-4 for CS-6”
DP-5 for CS-8”

SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>Dividable Number</th>
<th>Chuck</th>
<th>Face plate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Outer diameter</td>
<td>Inner jaw</td>
</tr>
<tr>
<td>D-10</td>
<td>CS-6”</td>
<td>2, 3, 4, 6, 8, 12, 24</td>
<td>167</td>
<td>4–42</td>
</tr>
<tr>
<td>D-11</td>
<td>CS-8”</td>
<td>2, 3, 4, 6, 8, 12, 24</td>
<td>210</td>
<td>4–62</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
<th>g</th>
<th>h</th>
<th>i</th>
<th>j</th>
<th>k</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-10</td>
<td>CS-6”</td>
<td>250</td>
<td>224</td>
<td>190</td>
<td>190</td>
<td>140</td>
<td>117</td>
<td>420</td>
<td>97</td>
<td>65</td>
<td>16</td>
<td>130</td>
<td>198</td>
<td>84</td>
<td>18</td>
<td>35</td>
</tr>
<tr>
<td>D-11</td>
<td>CS-8”</td>
<td>310</td>
<td>295</td>
<td>212</td>
<td>225</td>
<td>160</td>
<td>142</td>
<td>460</td>
<td>108</td>
<td>76</td>
<td>16</td>
<td>160</td>
<td>245</td>
<td>95</td>
<td>18</td>
<td>70</td>
</tr>
</tbody>
</table>
HORIZONTAL / VERTICAL ROTARY TABLE
Model: HHV-150, 200, 250, 300, 350, 400

The work table is graduated 360 degrees around its circumference and is driven by a precision Worm and Gear providing a 90:1 reduction ratio. One turn of the Handle moves the Table through 4 degrees. The dial is graduated in divisions of 1 min. and the vernier scale allows readings down to 10 seconds.

- The Worm is hardened and precision ground to minimize wear out of the WORM GEAR.
- Both the upper and the lower surface of the ROTARY PLATES are precision ground.


D-15~20

D-26~28

TAIL STOCK
Model: TS-1, 2, 3

This TAIL STOCK can be used for accurate centring when the Rotary Table is used in vertical position.
HORIZONTAL ROTARY TABLE
Model: HHT-150, 200, 250, 300, 350

The ‘HOMGE’ HORIZONTAL ROTARY TABLES have a sturdy design to suit many machining operations on Milling Machines including circular cutting, setting angles and indexing. They are available in a range of sizes to suit various machines and machining applications.

- The Worm is hardened and precision ground to minimize wear out of the WORM GEAR.
- Both the upper and the lower surface of the ROTARY PLATES are precision ground.


DIVIDING PLATE SET
Model: DP-1, 2, 3

The DIVIDING PLATE SET is consist of 2 Indexing Plates, a Sector and a Handle with Plunger. Using this DIVIDING PLATE SET, the indexing of 2 to 100 divisions can be attained quickly and accurately.

NUMBER OF HOLES:
DP-1  A Plate / 15, 16, 17, 18, 19, 20
       B Plate / 21, 23, 27, 29, 31, 33
       C Plate / 37, 39, 41, 43, 47, 49
DP-2, 3,  A Plate / 26, 28, 30, 32, 34, 37, 38, 39, 41, 43, 44, 46, 47, 49, 51, 53, 57, 59
       B Plate / 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 87, 89, 91, 93, 97, 99

SPECIFICATIONS

<table>
<thead>
<tr>
<th>NO</th>
<th>Model</th>
<th>Suitable for</th>
<th>Dividing plate set screw</th>
<th>Inner diameter of sector arm</th>
<th>Outer diameter of spring clip</th>
<th>Grove width in handle plate</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-29</td>
<td>DP-1</td>
<td>HHV-150 / HHT-150</td>
<td>PCD. 7/6 Ø</td>
<td>21</td>
<td>0.83</td>
<td>18</td>
<td>0.71</td>
</tr>
<tr>
<td>D-30</td>
<td>DP-2</td>
<td>HHV-200, 250 / HHT-200, 250</td>
<td>PCD. (3holes) 46/61</td>
<td>28.7</td>
<td>1.12</td>
<td>44</td>
<td>1.73</td>
</tr>
<tr>
<td>D-31</td>
<td>DP-3</td>
<td>HHV-300, 350 / HHT-300, 350</td>
<td>PCD. (3holes) 19/54</td>
<td>28.7</td>
<td>1.12</td>
<td>44</td>
<td>1.73</td>
</tr>
</tbody>
</table>
The Universal Dividing Head can be used for Simple Dividing and also for producing worms, by changing gears and gear quadrant. A particular feature of the HOMGE design is the 55.5mm through bore and MT6 taper. Furthermore, the unit can also be tilted from 0 to 90 degrees.

- The Spindle, Worm and Gear are made of a high grade steel, hardened and ground for high accuracy and durability.
- The Tail Stock is designed with a dovetail construction for high rigidity and can be adjusted in each direction to achieve the correct alignment.
- The Worm and Gear provide a reduction ratio of 40:1 and the unit is supplied with a double sided Dividing Plate.
- Providing divisions on face A of 24, 25, 28, 30, 34, 37, 39, 41, 42 & 43 and on face B of 46, 47, 49, 51, 53, 54, 57, 58, 59, 62 & 66.
- The Change Gears supplied are 24, 28, 32, 38, 40, 44, 48, 56, 64, 72, 86 & 100 Teeth. Thus, a very wide and comprehensive range of indexing is achievable.
- Each Universal Dividing Head is supplied complete with center, carrier, change gear quadrant, set of change gears, Tail Stock and Dividing Plate.

**OPTIONAL ACCESSORY:**
- 7” 3-Jaw Chuck

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-32</td>
<td>245</td>
<td>9(\frac{21}{23})</td>
<td>322</td>
<td>12(\frac{1}{16})</td>
<td>152</td>
<td>6</td>
<td>166</td>
</tr>
<tr>
<td>NO</td>
<td>H</td>
<td>h</td>
<td>J</td>
<td>K</td>
<td>L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-32</td>
<td>143</td>
<td>5(\frac{5}{8})</td>
<td>278</td>
<td>10(\frac{5}{16})</td>
<td>194</td>
<td>7(\frac{5}{8})</td>
<td>465</td>
</tr>
</tbody>
</table>

Center Height of Tail Stock
Max. 165 mm
Min. 38 mm