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For global contacts, please visit www.sumitomodrive.com

PARAMAX

Y Series
Kernel Expeller Drive

CATALOGUE

SCA.KCP01/2010.09
PARAMAX® YHD080 Kernel Press Drive

Features

- **Bearings**
  - Taper roller bearing or Spherical roller bearing
  - Heat treated alloy steel SCM440H
  - Hardened & ground finish

- **Shaft**
  - Heat treated alloy steel SCM440H
  - Hardened & ground finish

- **Pressure Angle**
  - 20°
  - 25°

- **Bearing Type**
  - Carbonized Alloy Steel SCM422H
  - Surface hardness HRC58-62
  - Increase strength ratio with 25° pressure angle
  - Hardened & precision ground finish

- **Housing**
  - Machined top surface

- **Oil gauge**
  - Built-in oil gauge

- **Installation**
  - Housing designed to facilitate easy installation and removal of fasteners

Specifications & Dimensions

### SPECIFICATION OF REDUCER

<table>
<thead>
<tr>
<th>Power Rating</th>
<th>145kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated torque</td>
<td>74,000Nm</td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>55.056</td>
</tr>
<tr>
<td>Rated Speed</td>
<td>1000rpm</td>
</tr>
<tr>
<td>Output Speed</td>
<td>18rpm</td>
</tr>
<tr>
<td>Lubrication</td>
<td>Oil bath</td>
</tr>
<tr>
<td>Lubricant</td>
<td>ISO VG220 AGMA SEP</td>
</tr>
<tr>
<td>Oil Quantity</td>
<td>Approx. 65 Litter</td>
</tr>
<tr>
<td>Total Weight</td>
<td>Approx. 1000kg</td>
</tr>
<tr>
<td>Output Shaft Dia.</td>
<td>165mm</td>
</tr>
<tr>
<td>Input Shaft Dia.</td>
<td>65mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Speed (rpm)</th>
<th>Output Speed (rpm)</th>
<th>Mechanical Power Rating (kW)</th>
<th>Thermal Power Rating (kW)</th>
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</thead>
<tbody>
<tr>
<td>1000</td>
<td>18</td>
<td>140</td>
<td>110</td>
</tr>
<tr>
<td>900</td>
<td>16</td>
<td>126</td>
<td>108</td>
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<tr>
<td>750</td>
<td>13</td>
<td>105</td>
<td>104</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Speed (rpm)</th>
<th>Allowable Radial Load (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Input Shaft</td>
</tr>
<tr>
<td>1000</td>
<td>16.5</td>
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<tr>
<td>900</td>
<td>16.5</td>
</tr>
<tr>
<td>750</td>
<td>16.5</td>
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</tbody>
</table>

Remarks: The allowable radial load for input and output shafts are applicable on the shaft. For radial load calculations away from the centre, please consult us.

<table>
<thead>
<tr>
<th>Ambient Temperature (°C)</th>
<th>Temperature Correction Factor</th>
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<tbody>
<tr>
<td>20</td>
<td>1.00</td>
</tr>
<tr>
<td>30</td>
<td>0.85</td>
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<td>40</td>
<td>0.70</td>
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<tr>
<td>50</td>
<td>0.55</td>
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