

Technical Data Sheet  
Gearbox  
WORM GEARBOX SQUARE DESIGN



|                    |        |     |
|--------------------|--------|-----|
| MODEL              | Q85    |     |
| Ø OUTPUT SHAFT     | 35     | mm  |
| APPROXIMATE RATIO  | 65     |     |
| EXACT RATIO        | 67.00  |     |
| OUTPUT SPEED       | 22     | RPM |
| EXACT OUTPUT SPEED | 22     | RPM |
| INPUT POWER        | 0.55   | KW  |
| INPUT ROTATION     | 1400   | RPM |
| INPUT PAM          | 80B5   |     |
| OUTPUT TORQUE      | 163.38 | N.m |
| NOMINAL TORQUE     | 289.00 | N.m |
| NOMINAL POWER      | 0.97   | KW  |
| SERVICE FACTOR     | 1.76   |     |
| DYNAMIC EFFICIENCY | 0.65   |     |



#### Oil Quantity (L)

| B3/H1 | B6/H4 | B7/H3 | B8/H2 | V5/H5 | V6/H6 |
|-------|-------|-------|-------|-------|-------|
| 1.2   | 1.2   | 1.2   | 1.2   | 1.2   | 1.2   |

#### Radial and Axial Loads



| $n_2$ [min-1] | $F_A$ [N] | $F_R$ [N] |
|---------------|-----------|-----------|
| 200           | 500       | 2500      |
| 100           | 600       | 3000      |
| 50            | 800       | 4000      |
| 15            | 1160      | 5800      |

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**12.1 kg**

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| type S    | øD                             | E | G  | L     | N  | O   | P   | Q    | kit code             |
|-----------|--------------------------------|---|----|-------|----|-----|-----|------|----------------------|
| <b>F1</b> | 130 H7                         | 5 | 13 | 117.5 | 50 | 165 | 200 | 11.5 | ① KS085.9.012<br>② - |
| <b>F2</b> | 152 <sup>+0.06<br/>+0.00</sup> | 5 | 15 | 147.5 | 80 | 180 | 205 | 12.5 | ① KS085.9.013<br>② - |
| <b>F4</b> | 130 H7                         | 5 | 13 | 106.5 | 39 | 165 | 200 | 13   | ① KS085.9.015<br>② - |

Technical drawings of two types of ball joints, labeled 1 and 2. Each drawing includes a front view and a side view.

**Front View Dimensions:**

- Joint 1:**
  - $d_1$ : Total height of the upper housing.
  - $c_1$ : Distance from the center of the ball to the inner edge of the housing.
  - $m_1$ : Width of the ball.
  - $e_1$ : Distance from the center of the ball to the outer edge of the housing.
  - $n_1$ : Total width of the housing.
- Joint 2:**
  - $d_1$ : Total height of the upper housing.
  - $c_1$ : Distance from the center of the ball to the inner edge of the housing.
  - $e_1$ : Distance from the center of the ball to the outer edge of the housing.
  - $f_1$ : Width of the ball.
  - $l_1$ : Total width of the housing.

**Side View Dimensions:**

- Joint 1:**
  - $b_1$ : Height of the ball.
  - $t_2$ : Thickness of the housing.
  - $o_1$ : Offset of the ball center from the housing centerline.
- Joint 2:**
  - $b_1$ : Height of the ball.
  - $t_2$ : Thickness of the housing.
  - $o_1$ : Offset of the ball center from the housing centerline.

② kit cod. K085.5.029 type B

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