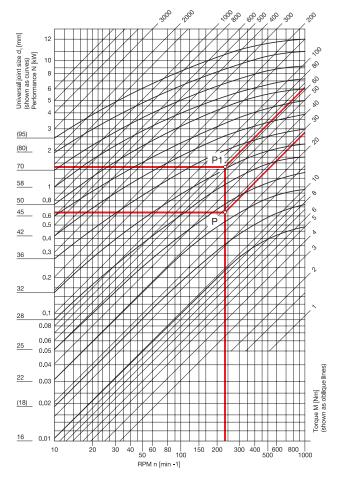
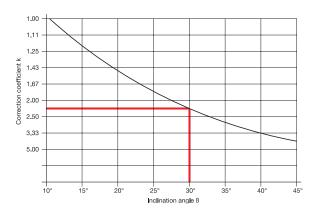
## Universal Joints with Friction Bearing, Type EG

Determining the Size







The graph shows the transferable performance N and the torques M of universal joints DIN 808, type EG (single jointed, friction bearing) in relation to the RPM n.

The values are applicable to a steady RPM, a steady load and an inclination angle of max. 10°. They are not applicable to stainless steel universal joints.

For larger inclination angles  $\beta$ , a nominal performance N increased by the correction coefficient k and/or a nominal torque M has to be selected (see example below).

Conversion formulae:

Torque M [Nm] = 
$$9550 \frac{N [kW]}{n [min-1]}$$

Performance N [kW] = 
$$\frac{\text{M [Nm] x n [min-1]}}{9550}$$

## Example 1

Performance N to be transferred = 0.65 kWRPM n  $= 230 \text{ min}^{-1}$ Inclination angle  $\beta$   $= 10^{\circ}$ 

Correction coefficient k = 1

Indicative performance N = Nominal performance N
Intersection point P results from 0.65 kW and 230 min-1 (which corresponds to a torque of 27 Nm).

The next larger universal joint corresponding to point P is the model with a diameter  $d_1 = 25$  mm.

## Example 2

Torque M to be transferred = 27 Nm RPM n = 230 min<sup>-1</sup> Inclination angle  $\beta$  = 30°

Correction coefficient k = 2.25 Indicative torque M = 2.25 x 27 Nm = 60 Nm

Intersection point  $P_1$  results from 61 Nm and 230 min<sup>-1</sup> (which corresponds to an indicative performance N = 1.47 kW).

The next larger universal joint corresponding to point  $P_1$  is the model with a diameter  $d_1 = 36$  mm.