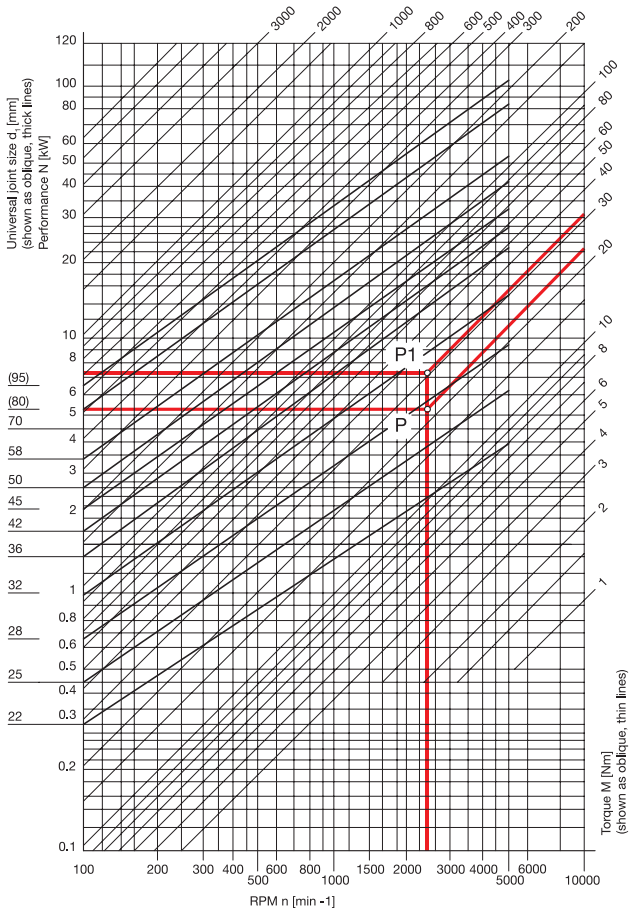

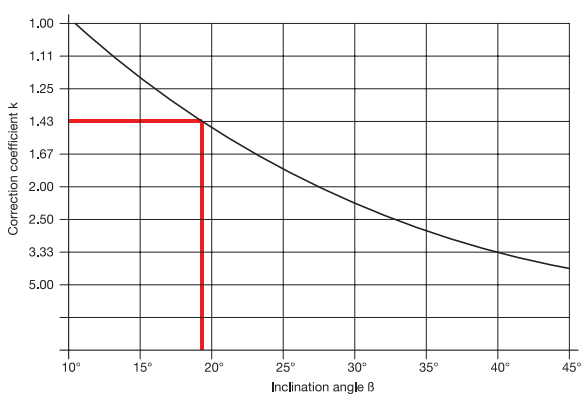

The graph shows the transferable performance N and the torques M of universal joints DIN 808, type EW (single jointed, needle bearing) in relation to the RPM n.

The values are applicable to a steady RPM, a steady load and an inclination angle of max. 10°.

For larger inclination angles ß, 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:

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

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

1 kW = 1.36 PS 1 PS = 0.736 kW

Example 1

Performance N to be transferred	= 5.5 kW
RPM n	= 2300 min^{-1}
Inclination angle ß	= 10°
Correction coefficient k	= 1

Indicative performance N = Nominal performance N

Intersection point P results from 5.5 kW and 2300 min^{-1} (which corresponds to a torque of 23 Nm).

The next larger universal joint corresponding to point P is the model with a diameter d_1 = 28 mm.

Example 2

Torque M to be transferred	= 23 Nm
RPM n	= 2300 min^{-1}
Inclination angle ß	= 18°
Correction coefficient k	= 1.43
Indicative torque M = 1.43 x 23 Nm	= 33 Nm

Intersection point P_1 results from 33 Nm and 2300 min^{-1} (which corresponds to an indicative performance N = 7.9 kW).

The next larger universal joint corresponding to point P_1 is the model with a diameter d_1 = 32 mm.