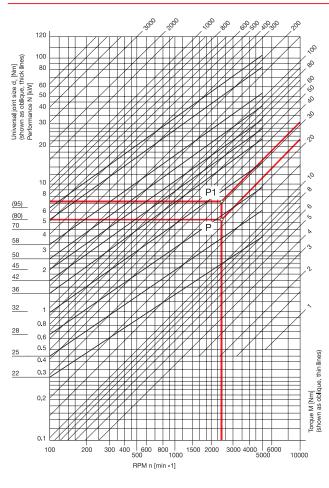
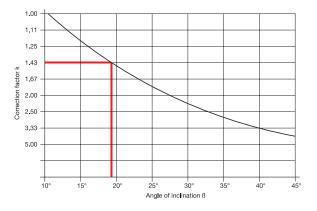
# Universal joints with needle bearing, Type EW

Selection of the size







The table shows the transferable output N and/or torques M of universal joints Kreuzgelenken DIN 808, type EW (single needle bearing) in relation to the r.p.m. n.

The values are only applicable to a constant speed of rotation, constant load and an operating inclination angle of max. 10°.

For larger inclination angles  $\beta$  a nominal output 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  $\frac{N [kW]}{n [min^{-1}]}$ 

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

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## Example 1

Torque to be transferred N	= 5,5 kW	
R.p.m. n	= 2300 min <sup>-1</sup>	
Angle of inclination B	= 10°	
Correction coefficient k = 1		
Indicative output N = Nominal output N		

Intersection point P is arrived at from 5,5 kW and 2300 min-1 (which corresponds to a torque of 23 Nm).

The next size up universal joint corresponding to point P is the model with a diameter  $d_1 = 28$ .

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### Example 2

Torque to be transferred M	= 23 Nm	
R.p.m. n	= 2300 min <sup>-1</sup>	$\infty$
Angle of inclination B	= 18°	က်
Correction coefficient k = 1,43		
Indicative torque = 1.43 x 23 Nm = 33 Nm		

Intersection point  $P_1$  is arrived at from 33 Nm and 2300 min<sup>-1</sup> (which is equivalent to an indicative output N = 7,9 kW).

The next size up universal joint corresponding to P1 is the model with a diameter  $d_1 = 32$ .

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