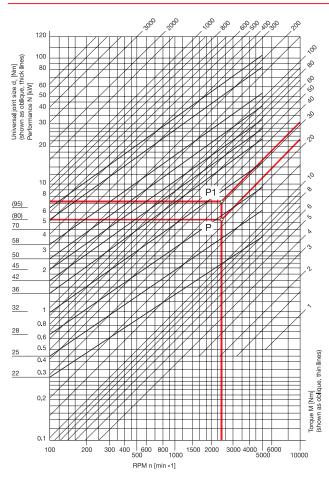
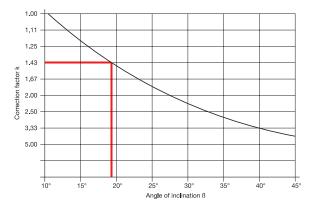
Universal joints with needle bearing, Type EW

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 β 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 ⁻¹	
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 ⁻¹	∞
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⁻¹ (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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