Short Description

Planetary Plug-in Gearbox PEG 1200

Liebherr has completed an ideal new gearbox to its series of planetary plug-in gearboxes in the form of the new PEG 1200, which is the largest version available to date. The coaxial planetary gearbox can be constructed as a two, three or four stage design with a transmission ratio i = approx. 20 – 630*. According to FEM 1.001, its maximum dynamic torque is 1,250,000 Nm.

The gearbox can be adapted to be driven by both electrical or hydraulic motors and can be powered by multiple motors as an option. Upon customer request the gearboxes can be prepared for installation on motors or supplied as a complete unit with a drive unit already installed. The PEG 1200 is mainly used in ship and offshore cranes, deck winches, dredgers and in industrial applications.

Features:

- Very high power density
- Improved installation space
- Easy maintenance
- Long service life
- Condition monitoring
- Classification to conventional standards
- Variable adaptors for electric/hydraulic motors
- Floating bearing version for axial compensation

Date: 06.07.2017
Version: 02

*Other ratios are possible to order

LIEBHERR
Components

Technical Data
Planetary Plug-in Gearbox PEG 1200

Dimensions

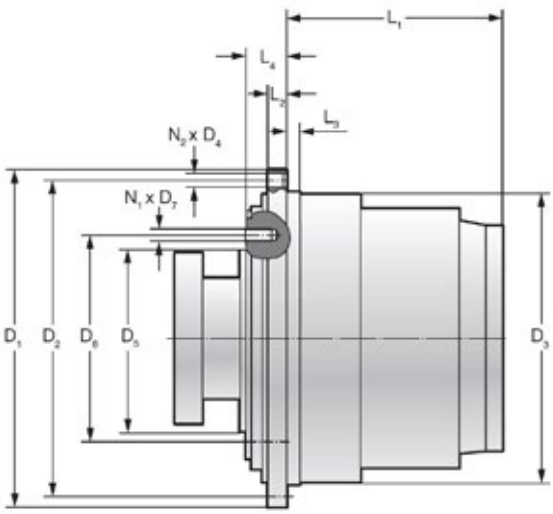
	Torques		Nominal data for rope drum		Connection dimensions for rope drum						
	$T_{dyn, r}$ [1]	T_{stat}	D_0	F_{max}	D_1	D_2	D_3	N_2 x D_4	L_1	L_2	L_3
			Approx. value		Centering Ø						
	[Nm]	[Nm]	[mm]	[kN]	[mm]	[mm]	[mm]	1 x [mm]	[mm]	[mm]	[mm]
PEG 1200	1,250,000	2,000,000	1,350	1,852	1,260	1,200	Ø 1,140 h7	60 x Ø 39	867.5	110	48

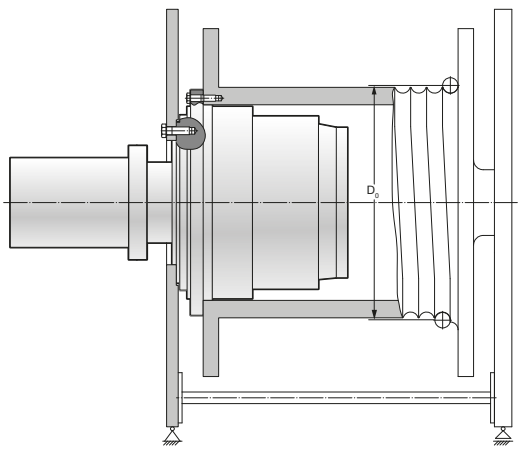
*Reference torque on the basis of FEM 1.001 M5/L2/T5 at an output speed of 15 rpm and an increasing load (use of rope winch)

Dimensions

	Connection dimensions for winch frame				Weight
	D_5	D_6	N_1 x D_7	L_4	3-stage version
	Centering Ø				Approx. value
	[mm]	[mm]	1 x [mm]	[mm]	[kg]
PEG 1200	Ø 700 h7	Ø 800 Ø 930	30 x M42 29 x M42	161	4,800

T_{stat} = Static output torque
D_0 = Minimum winding diameter for the first rope layer
F_{max} = Maximum possible theoretical rope pull force
D_{0-7} = Diameter
L_{1-4} = Length
$N_{1,2}$ = Number of fastening holes





Electric version

Hydraulic version

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