## **Winch Gearboxes**Application Questionnaire



Company/Address					
Proper department	Person concerned	erson concerned I		Date	
Phone	e-mail		Number of inquiry		
Demand	Application (e.g. mobile crane, ship-offshore-harbou	ur cranes, tower cranes)	Used for (e.g. hoisting-, luffing-, pulling win	ch)	
Operating conditions – Design criteria	a (All values related to ■ first / ■ to	p rope layer)			
Rope loads and winch ratings  No. of ropes on drum w  Nominal line pull (for each rope)  Line pull at drum F <sub>1</sub> Rope speed V <sub>1</sub>	(kN) # F	Alternativ  Load F <sub>1</sub> cond. (kl  1 2	$T_{dyn}$ $V_1$ $n_1$	Time slice (%)	
Empty hook Line pull at drum F <sub>empty</sub> Rope speed V <sub>empty</sub> Installed power P	(kN) V <sub>1</sub> V <sub>empty</sub> Rope speed v (m/min.) for P = constant	3 <u> </u>		100 %	
□ M □ L	Betriebsklasse ☑ T	Calculated Safety aga Yield str	inst	(hour) (-)	
Approval acc. to classification society  ☐ ABS ☐ DNV ☐ GL ☐ LRS ☐ RMRS ☐ Ot		with ☐ T <sub>dyn</sub> ☐ F <sub>dyn</sub>	☐ T <sub>stat</sub> ☐ F <sub>stat</sub>	(Nm) (kN)	
// Technical data					
Length of drum between flanges $L_2$ Rope diameter $d$	(mm) Drum Lead □ right □ left  Type of rope groove (mm) □ DIN 15061 □ Special □ (mm) Position of rope anchor □ drive side □ opposite to compare the compare the compared to t		No. of rope layers Length of rope to be wound including 3 safety turns Diameter of drum flanges Ratio	Z(-)  L <sub>S</sub> (m) D <sub>2</sub> (mm) i(-)	
// Drive electric motor	// Brake		//Scope of supply		
Manufacturer Type Power Speed Control (Frequency inverter; ON/OFF; Softstarter) Voltage, AC/DC Starting torque Breakdown torque T <sub>k</sub> Power-on time ED Starting per hour	(kW) Design  (min.) □ Spring loaded multi d  with backstop □ Brake motor □ Disc brake □ Drum brake  (Nm) Actuation (Nm) □ hydraulically min. release p  (%) □ electric max. release p		(bar) I End support bearing with plate (bar) Fail save brake		
// Drive hydraulic motor	//Remarks and special of	operating condit	ions		
Manufacturer  Type  Available oil flow  Available differential pressure Øp	(l/min)(bar)				