User Manual Hand
Winch WH 7 SBetriebsanleitung WH 7 S EN rev
00Date printed:12.03.2015
07:13:00Date created:13.07.2010
15:59:00

This original user manual must be read before start-up and be available to the user at all times.

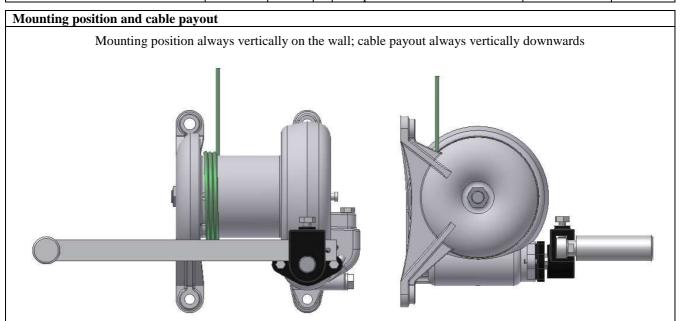
Hand winch with worm gear Type WH 7 S in accordance with DIN EN 13157

Intended use: Raising and lowering loads

Do not use for!	In acc. with BGV C1 (stages and studios)	Motorised operationUsage in acc. with Atex
	 Moving persons 	

Technical Data for WH 7 S								
Total 750kg Cable diameter: 8 Gear unit: 1Bm Maximum cable take-up: 49								
load:	load: mm m							
Minimum l	oad for s	afe friction disc bral	ke opera	tion	10 kg	Ambi	ent temperature range -10°C	C to +50°C

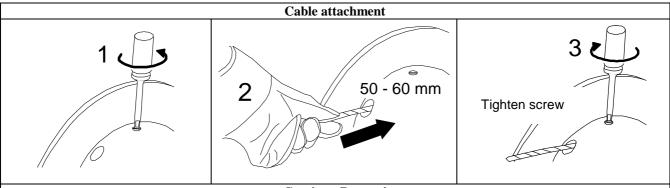
Detailed specifications					
	WH 7 S			WH 7 S	
No. of cable layers	4		Load capacity last cable layer	600 kg	
Drum diameter (ungrooved)	165 mm		Load raising per crank turn 1st cable layer	20 mm	
Drum length	182 mm		Load raising per crank turn last cable layer	25 mm	
Flanged wheel diameter	240 mm		Length of hand crank raising arm	100440mm	
Winder diameter, 1st cable layer	173 mm		Force on crank at rated load in	16 kg	
Winder diameter, last cable layer	215 mm		1st cable layer at rated load		
Winder ratio	1.24		Dyn. test load during factory acceptance	904kg	



Wire cable specification Pay out the cable correctly Only use cables with a safety factor of at least 3 times the minimum breaking strain at the rated total load! Recommended: Minimum breaking force ≥ 36,8 kN

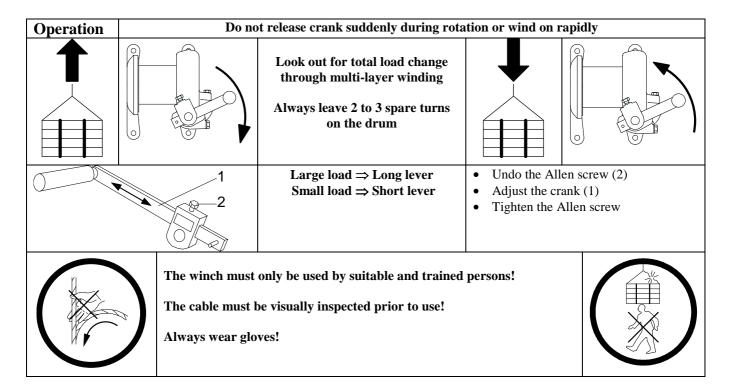
Friedrich Köster GmbH	WH7 S	1/7
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Caution - Danger!

The cable must always be laid in the correct direction of rotation. Failure to do this will render the friction disc brake ineffective and the load will fall. Note the directional arrows on the winch for raising and lowering.



!All repairs must be carried out by the manufacturer or an authorised workshop! Maintenance

The brake and gearbox of the winch are subject to use-related wear and tear. This cannot be completely prevented by regular inspection and maintenance. A general overhaul of the winch is required after 10 years at the latest, as prescribed in FEM 9.755, in order to ensure the required safety for you.

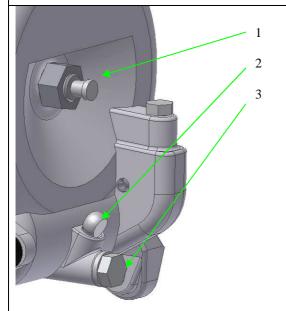


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Initial commissioning		
Gearbox Do not fill with oil until after installation	1	 Pull out the dipstick (1) Fill with 20 - 25 cm³ of SAE 80 gearbox oil Replace the dipstick Check oil level (+ too much/- too little oil)
Hand crank Move from the transport position to the operating position	1 -2 -3 -4	 Knock out the locking pin (4) and loosen the Allen screw (2) Take hold of the crank head (3) and pull out the crank (1) Crank head can fall off Turn the crank and push into the crank head Tighten the Allen screw and hammer the locking pin into position
Wire cable Selected for	normal operation, see name plate	Special safety requirements by the user

User tasks	Technician's tasks
Check brake and cable regularly.	Inspection before start-up
A raised load must not drop over a 10 minute period	Inspect at least once a year, keep a record. We recommend an
Check the cable for damage and discard if necessary.	inspection log for winches, lifting and towing gear.

Lubricate depending on the application (use in accordance with driving gear group 1 Bm (DIN 15020) in a temperature range of - 20° C to + 50° C)



1. DRUM BEARING

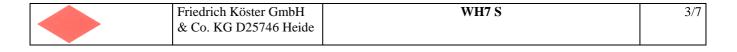
Lubricate approx. every 5 operating hours, at least every 6 months or prior to operation after a longer standstill. Factory filling: Shell Alvania EP

2. DRUM GEAR AND GEARBOX

Check oil level approx. every 6 months or according to type of operation too much / - too little oil). Recommended: Gear oil SAE 80 $\,$

ALWAYS DRAIN THE OIL BEFORE DISMANTLING

OIL IS A HAZARD TO THE ENVIRONMENT COMPLY WITH THE REGULATIONS FOR SUBSTANCES HAZARDOUS TO WATER



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Fau	Faults and fault remedying					
Loa	nd is not held					
>	Cable put on in wrong direction		Put on cable correctly			
>	Stopper does not engage (no noise wh	nen hoisting)	Stopper/bolts rustyCompression spring defective			
	 Unscrew locking screw (1) a housing Pull locking screw and mush the housing Check locking screw and mureplace if damaged Check stopper (visible from movement and knock it gentle necessary Repairs to the stopper may of the manufacturer or an authoform Reassemble in reverse order Function check 	above) for free ly to loosen it if				
Loa	nd is not lowered					
>	Insufficient load • Pulley stiff • Too much dead rope					
	 Increase load (e.g. weight on hook) 					
>	Brake stiff	Not lubricatedWinch has been overloaded				
>	Check oil level					

Maintenance

Maintenance of the winch is the responsibility of the user; in particular check the wire rope and brakes The winch brakes and gearbox are subject to use-related wear and tear. This cannot be completely prevented by regular inspection and maintenance. We recommend a general overhaul of the winch after 10 years at the latest, as prescribed in the FEM 9.755, in order to ensure the required safety for you.



BRAKE MAINTENANCE / REPAIR MUST ONLY BE CARRIED OUT BY THE MANUFACTURER OR AN AUTHORISED REPAIR SHOP

Spare Parts

Spare parts may only be ordered from Köster. Only original parts are approved. The winch order number and the description of the spare part are needed when ordering spare parts. We would be pleased to provide you with telephone assistance in the event of any problems.

Spare part lists are included with the user manual. The serial number can be found on the nameplate or the order confirmation. At least the last six digits are always required.

Please indicate in each order

- Type
- Year of manufacture
- Serial No.

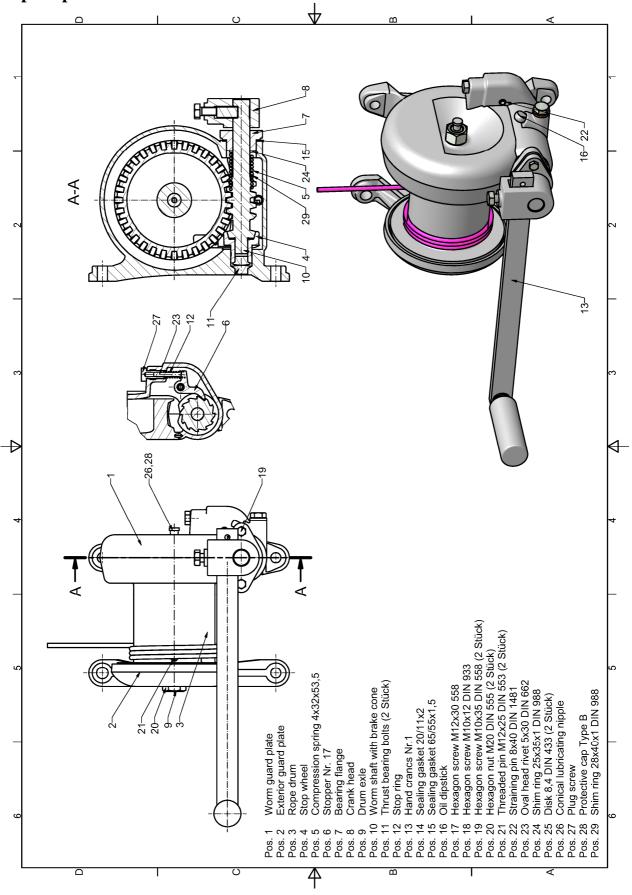
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Details of testing by the manufacturer and the user				
Parameter	Explanation	Value		
Nominal load	Load capacity in the first cable layer 750 kg			
Static test load	1.5 times 1125 kg			
Dynamic test load	1.1 times nominal load 825 kg			
Testing by the manufacturer	Each winch is dynamically tested by the manufacturer with a test load of 904 kg. This load is raised and lowered 5 times through approximately 2.5 m.			
Testing by the user	 Before commissioning After repair or refitting After an extended period of no use At least once a year The results of the tests must be recorded in a test log. The test should be carried out with a static test load for 10 minutes. In doing so, the safe holding of the load must be checked by means of a mark on the cable drum. When carrying out the dynamic test, attention must be paid to the magnitude and uniformity of the cranking force and to any noise. 			
Life	The cable winch has a safe operating period of 800 h (driving gear group 1Bm/M3, heavy load spectrum). A general overhaul must be carried out by the manufacturer after not more than 10 years.			

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Spare parts list for the WH 7 S



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Dimension drawing WH 7 S

