
 <b>DANHYDRA</b> <small>TOOL SOLUTIONS FOR WIND POWER</small>	Doc. No.: UM350886		User manual
	Creator: LNI	Approver: LRH	Status: Approve
	<b>Date:</b> 13-03-2022		<b>Rev.:</b> 00

# GreaseManager

## High Flow


## High Pressure



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## 1 Revision

### 1.1

Versions	Changes	Initials	Date
00	Initial document	LNI	14-03-2022

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## 2 General information

This user manual is related to the tool GreaseManager (GM), (covers both High Flow and High Pressure), sold and manufactured by Danhydra A/S). The manual is providing important information and must be read thoroughly and understood before operating the GM to ensure safe and optimal use.










All instructions stated in this manual must be followed and the operator must be aware of the risks involved in operating this tool.


### 2.1 Copyright ©

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### 2.2 Symbols

	Warning:	Potential hazard to yourself or other people. Information to prevent danger.
	Caution:	Potential hazard to the equipment. Information to prevent damage.
	Action:	Explanatory text for actions to be executed.      Graphics for easy recognition
	Feedback:	The feedback from the action performed.
	Be aware:	Noteworthy information is to be observed.
	Info:	Information and/or tips.
	Foot protection required.	
	Hand protection required.	
	Eye protection required.	

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Ear protection required.



Respiratory protection required.



Head protection required.



Face mask required



Read and understand

## 2.3 Organizational measures

The protective equipment necessary for personnel working with the unit, must be provided by the unit owner.



It is the owner's responsibility to ensure the availability and presence of all the statutory and official authorizations for operating the unit according to the national laws and regulations


## 2.4 Unit identification

The tool is defined as a machine and is therefore provided with CE marking plate with CE symbol, type and serial number of the tool. Refer to pictures below.

For location of the CE marking see picture below.

The unit is furthermore delivered with a declaration of conformity signed by the manufacturer proofing that it is designed in accordance with the machine directive 2006/42/EF.




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## 2.5 Manufacturer

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 Denmark  
 Phone: +45 70 22 42 32  
 Website: <http://www.danhydra.com>

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 80538 Loveland, CO  
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## 3 Safety

### 3.1 General



The item may not under any circumstances be used for any other operating situations or connected to any other tools than what it is designed for and is specified in this manual.

### 3.2 Required safety equipment



Always use the necessary personal safety equipment when working with chemicals, electrical tools, and pneumatic tools. Always check the safety data sheets prior to commencement of work. Always keep the work area clean from swarf and dirt etc. Please protect the environment and comply with all local laws and regulations.



When working with the hydraulic equipment it is required, that the operator and people nearby are wearing safety glasses to protect their eyes from possible high-pressure oil leaks. Do not expose your skin to the oil, as skin contact may cause eczema.




### 3.3 Work procedures

**Before work begins it should be, if possible, ensured that:**

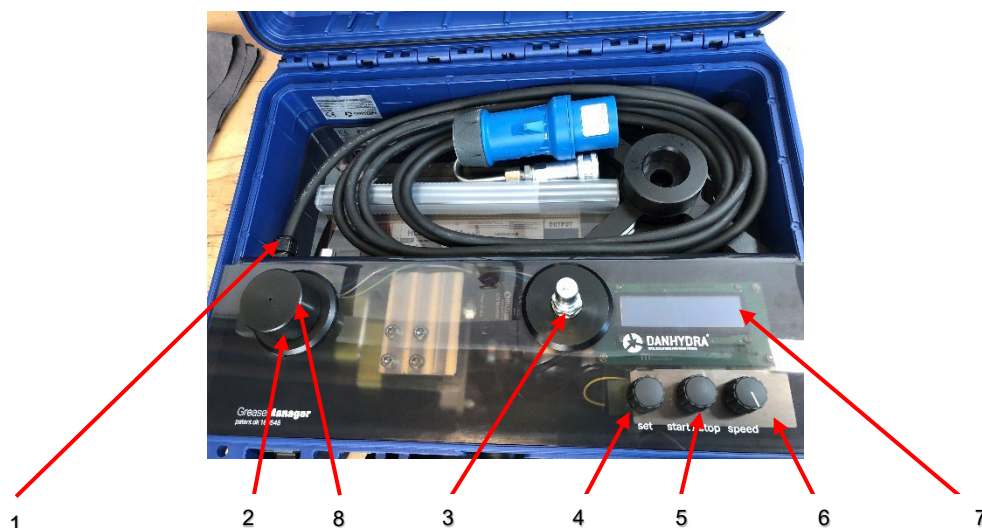
1. The mounting of the hose from the valve to the lubrication point is properly and securely performed.
2. The installation of the grease cartridge is properly and safely performed.
3. Inspection of parts is performed to ensure that no defective parts.

During the work must it be ensured that the operator has a clear view of the work area so that the machine can be stopped immediately in case of any risk.

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## 4 Item identification

### 4.1 Data Specification and overview:




1. Power supply (variables)
2. Inlet connection for cartridge
3. Outlet valve
4. Set
5. Start/Stop
6. Speed
7. Display
8. Grease inlet cover

### 4.2 Technical specification High Pressure and High Flow:

Max pressure	High Pressure	250 bar
	High Flow	120 bar
Max flow	High Pressure	600 g. pr. min.
	High Flow	2200 g. pr. min.
Temperature Range: Min. -20°C Max. +70°C		
Dimensions: 410 mm x 320 mm x 170 mm		Weight: 14 kg
Voltage: 110V-230V		
Outlet connection (as per order):		
Quick connection ISO 7241-1-A		
Quick connection ISO 7241-1-B		

Note: All data are averaged results of tests performed at Danhydra A/S in Denmark.  
 Reasonable variations in data can occur.  
 Please consult your Danhydra consultant for other application purposes than grease/oil.

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## 5 Operating guide

### 5.1 Installation

1. Remove the grease inlet cover (8)
2. Mount the adaptor with grease cartridge and install on inlet (2)
3. Connect the hose to the outlet (3) and connect power supply (1)

### 5.2 Auto mode

1. Press the “set” button (4) to switch between Auto (Preset) and Manual mode.  
If automatic (preset) mode is enabled, turn “set”- button (4) to adjust volume to be pumped
2. Press and hold “start/stop” button (5) for 10 sec. to switch between ml/gr.
3. Press “start/stop” (5) to begin pumping
4. Turn “speed” button (6) during operation to increase or decrease flow
5. The display (7) will show the desired volume and progress if in automatic mode
6. In automatic mode the GreaseManager will stop by itself, when chosen volume has been pumped.

### 5.3 Manual mode


1. Press the “set” button (4) to switch between Auto (Preset) and Manual mode.
2. Press and hold “start/stop” button (5) for 10 sec. to switch between ml/gr.
3. Press “start/stop” (5) to begin pumping
4. Turn “speed” button (6) during operation to increase or decrease flow
5. The display (7) will show the progress of volume.
6. In manual mode the GreaseManager will run until it is stopped by pressing “start/stop” (5)

### 5.4 Disassembly

1. GreaseManager must be stopped
2. Disconnect power supply
3. Disconnect the hose and the cartridge adaptor

### 5.5 Flush (only done when change of grease type)

1. Disconnect the hose and mount the flush coupling
2. Mount grease adaptor with new type of grease, put bag or container under flush coupling
3. Turn “speed” button (6) to lowest setting
4. Start pumping in manual mode, using “start/stop” button (5)
5. Slowly increase flow by turning the “speed” button (6)
6. When new grease is flowing from the nozzle, the GreaseManager has been flushed.

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## 6 Accessories

Grease cartridge adaptor (161230)



351066:  
Coupling for flushing HNV ISO-B



412727:  
Quick coupling 1/4" male, ISO 7241-1-B  
≈Ø14,3, Height: ≈35,7mm



351067:  
Coupling for flushing ANV ISO-A



110202:  
Quick Coupling 1/4" male, ISO 7241-1-A  
≈Ø11,8, Height: ≈39mm



It is possible to purchase additional equipment for the GreaseManager