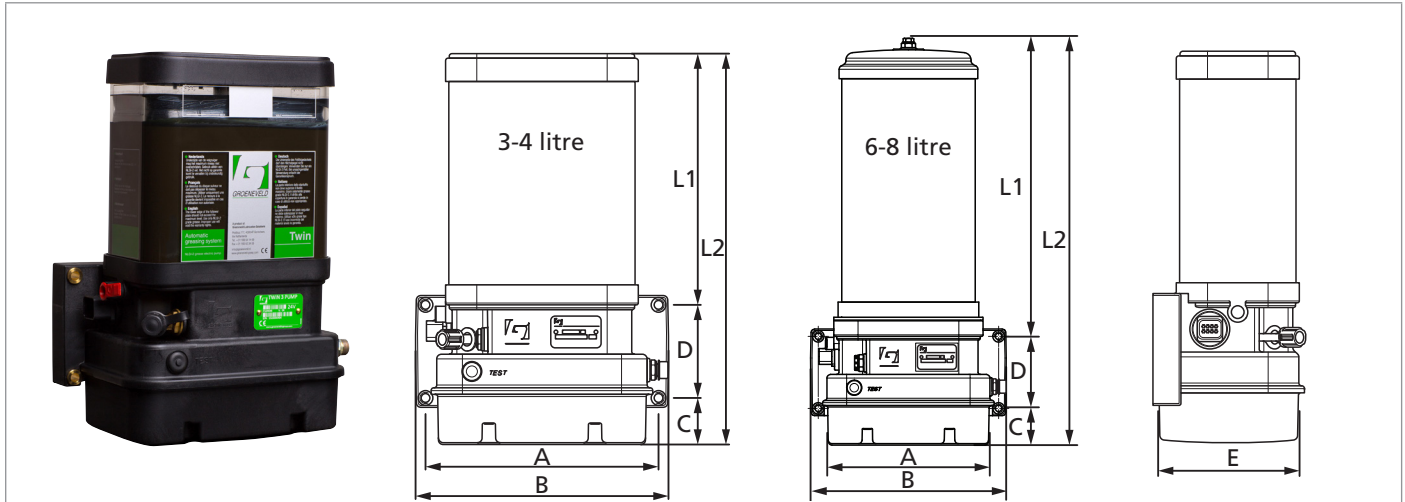


## Specification sheet

# Twin HD dual-line automatic lubrication system

### Dimensions



Reservoir	L1 [mm]	L2 [mm]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
2 litre	185	334	250	270	49	100	165
3 litre	216	365	250	270	49	100	165
4 litre	272	421	250	270	49	100	165
6 litre	326	475	250	270	49	100	165
8 litre	416	565	250	270	49	100	165

### Versions

Article code	Capacity	Supply voltage	Grease delivery	Max. pressure	Article code	Capacity	Supply voltage	Grease delivery	Max. pressure
F124649	2 litre	12 Vdc	12 cc/min.	250 bar	F124662*	4 litre	24 Vdc	12 cc/min.	250 bar
F124648	2 litre	24 Vdc	12 cc/min.	250 bar	F124669**	4 litre	24 Vdc	12 cc/min.	250 bar
F124634	3 litre	12 Vdc	12 cc/min.	250 bar	F124630	4 litre	24 Vdc	12 cc/min.	250 bar
F124636	3 litre	24 Vdc	12 cc/min.	250 bar	F124635	8 litre	12 Vdc	12 cc/min.	250 bar
F124663*	3 litre	24 Vdc	12 cc/min.	250 bar	F124637	8 litre	24 Vdc	12 cc/min.	250 bar
F124676***	3 litre	24 Vdc	12 cc/min.	250 bar	F124671**	8 litre	24 Vdc	12 cc/min.	250 bar
F124631	4 litre	12 Vdc	12 cc/min.	250 bar	F124670***	8 litre	24 Vdc	12 cc/min.	250 bar

\* Pump with  $\varnothing$  12mm outlets (M18 x 1.5). \*\* Pump with CAN-bus connection. \*\*\* Pump only, excluding grease.

### Basic information

Pump type	Electric piston pump
Operating principle	Parallel (dual-line)
Output	1
Max. number of lubrication points	200*
Cartridge or refillable	Refillable
Pump material	Hard anodised aluminium - nylon reinforced

Minimum level switch	Standard
Protection class	IP67
Controlled by	Timer
Grease class up to	NLGI-2
Follower plate	Standard
Max. operating current active engine	20 Amp

\* Depending on system resistance, grease delivery and tubing length.

# Specification sheet

## Twin HD dual-line automatic lubrication system

### Basic information

Interval	Variable
Electromagnetic compatibility requirements	Automotive directive 72/245/EC, as last amended by directive 2006/28/EC Earth Moving Machinery standard; ISO 13766 (1999).
Standard equipment	<ul style="list-style-type: none"> <li>• 3 pump elements (pistons forced in/out)</li> <li>• Filler coupling with grease filter</li> <li>• Spring loaded follower plate</li> <li>• Minimum level switch</li> <li>• Test button</li> <li>• Internal pressure relief valve (250 bar)</li> <li>• Integrated control unit with memory bank, diagnostic facilities &amp; real time clock</li> </ul>
Electric timer	<ul style="list-style-type: none"> <li>• Fujitsu MB90 F497 microprocessor</li> <li>• Real time clock for event logging with date and time tag</li> </ul>
Electric features	<ul style="list-style-type: none"> <li>• Monitoring of pressure switch harness</li> <li>• Extra in/output for mode selection</li> <li>• Auto shut off function after programmed number of greasing cycles and low level indication (prevents air inclusion in the system)</li> <li>• Temperature sensor on ECU to register over- and under temperature (for diagnosis purposes)</li> </ul>
CAN-bus communication (SAE J1939; Public Library) enabling	<ul style="list-style-type: none"> <li>• Controlling / monitoring via communication channel of machine (no additional cable set required)</li> <li>• Remote controlling / monitoring from system via communication module (GSM/GPRS)</li> </ul>

### Grease capacity metering units

Metering unit	cc per cycle
0	0.025
1	0.050
2	0.100
3	0.150
4	0.200
5	0.250
6	0.300

Metering unit	cc per cycle
7	0.350
8	0.400
8.5	0.700
9	1.000
10	2.000
11	4.000

### Temperature range and grease\*

Min. system operating temp.	Max. system operating temp.	Prescribed NLGI class grease
-20 °C / -4 °F	+70 °C / +158°F	2
< -20 °C / -4 °F	0 °C / +32 °F	0 / 1
< -20 °C / -4 °F	+70 °C / +158 °F	Synthetic 2
< -20 °C / -4 °F	0 °C / +32 °F	Synthetic 0 / 1

\* Get in touch with your local Groeneveld organisation for more information.

### Twin display

#### Environment

Ambient temperature	-25 °C up to +70 °C
Protection class	IP54

#### Electric

Supply voltage range	9 - 32 Vdc
Max. operating current	220 mA
Cable length max	5 meter