

4. TECHNICAL DATA FOR PRODUCTS

Reference : LUB GREASE GUN SET

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TECHNICAL DATA

Grease gun designed for use with 400 g cartridges or filled directly with grease, with a drain and filler valve. This gun is compatible with standard grease cartridges, particularly NTN-SNR LUB grease cartridges.

- Material: strong sheet steel
- Weight: 1 130 g with rigid hose and nozzle
- Rigid steel, 150 mm
- Hydraulic type steel nozzle, 3 jaws, with flat bar (10x100 thread)

Capacity	Flow	Service pressure	Maximum pressure
500 cm ³	0,50 cm ³	180 bar	345 bar

- Lubrication accessories supplied with the gun: a bichromate zinc-plated steel extension (M10 x 100 thread).
- Option: two plastic nozzles with a standard thread.

SINGLE-POINT BOOSTER AUTOMATIC LUBRICATOR







LUBER READY (NAME OF THE LUBRICANT)

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Capacity	60 cm ³ or 125 cm ³
Duration of distribution	Adjustable from 1 to 12 months
Ambiant temperature range	From -20°C to +60°C
Maximum service pressure	5 bar
Drive	Electrochemical reaction
Maximum distance allowable between the automatic lubricator and the lubricant point	Oil 1500mm and inner diameter 6mm Grease 1000mm and inner 6mm*
Intrinsic safety certification	I M1 Ex ia I II 1G Ex ia IIC T6 II 1D Ex iaD 20 T 85°C
Recommended storage temperature	20°C
Maximum storage time and expiry dates	Max.1 year in storage (grease) + 1 year in service
Weight (with lubricant)	READY BOOSTER 60 READY BOOSTER 125 Approx. 145 g Approx. 260 g

* The maximum length of the lubricant line depends on ambient temperature, the type of grease and back pressure generated by the application.

DURATION OF THE DISCHARGE OF THE READY BOOSTER AT 20°C

	 1 month	 3 months	 6 months	 9 months	 12 months
-20°C	2	5	10	13	15
0°C	1.3	3.8	7.2	11	13
+20°C	1	3	6	9	12
+40°C	0.8	2.5	5.2	7.5	10
+60°C	0.6	2	4	-	-

Data based on laboratory back pressure tests and using grade 2 greases.
Possible residue for a temperature > 40°C or an emptying period of > 6 months.

Adjustment of flow at 20°C (grease)											
Output selector (months)		1	2	3	4	5	6	7	8	9...	...12
Lubricant / day (cm³)	60cc	2.0	1.0	0.7	0.5	0.4	0.3	0.3	0.3	0.2	0.2
	125cc	4.2	2.1	1.4	1.0	0.8	0.7	0.6	0.5	0.5	0.4
Lubricant / week (cm³)	60cc	14.0	7.0	4.7	3.5	2.8	2.3	2.0	1.8	1.6	1.6
	125cc	29.2	14.6	9.7	7.3	5.8	4.9	4.2	3.6	3.2	2.6
Pump strokes / day	60cc	60	30	20	15	12	10	8.5	7.5	6.6	5
	125cc	125	62.5	41.6	31.2	25	20.8	17.8	15.6	13.8	10.4
Pump strokes / week	60cc	9-11	5	3	2-3	2	1-2	<1.5	<1.5	1	<1
	125cc	60	29 - 30	19 - 20	14 - 15	11 - 12	9 - 10	8 - 9	7 - 8	6 - 7	5 - 6

1 pump stroke of the grease gun distributes: 0.5 cm³/piston displacement.

LUBER SMART 125 (NAME OF THE GREASE)

➤ P. 20

Complete kit (control unit + lubricant tank with gas cells and batteries + plastic cover).

LUBER SMART REFILL 125 (NAME OF THE GREASE)

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Lubricant tank with gas cells and batteries + plastic cover.

Capacity	125 cm³
Duration of distribution	Adjustable from 1 to 12 months (in whole months)
Ambient temperature interval	from -20°C to +60°C
Maximum service pressure	6 bar
Drive	Gas generation cell with electronic temperature compensation
Maximum distance allowable between the automatic lubricator and the lubrication point	Oil 1500 mm and inner diameter 4 mm Grease 1000 mm and inner diameter 6 mm*
Intrinsic safety certification	I M1 Ex ia I Ma II 2G Ex ia IIC T4 Gb II 2D Ex ia IIC T135°C Db
Protection index	IP 65
Recommended storage temperature	20°C
Maximum storage time and expiry dates	Max. 2 years in storage (grease) + 1 year in service **
Weight (with lubricant)	Approx. 280 g including the electronic unit: 40 g

* 1000 mm with a min. inner diameter of 10 mm. The maximum length of the lubricant line depends on ambient temperature, the type of grease and back pressure generated by the application.

** The electronic control unit is reusable and not concerned by this limit.



Adjustment of flow Flow/Adjustment (month)

Setting (in months)	1	2	3	4	5	6	7	8	9...	...12
Lubricant / day (cm³)	4	2	1.4	1.1	0.9	0.7	0.6	0.5	0.5	0.4
Lubricant / week (cm³)	29	14.5	10.1	7.6	6.1	5.1	4.3	3.8	3.4	2.7
Pump strokes / day	8 to 9	4 to 5	2 to 3	2 to 3	2	1 to 2	1	1	1	< 1
Pump strokes / week	60 to 62	30 to 32	20 to 21	15 to 16	12 to 13	10 to 11	8 to 9	7 to 8	6 to 7	5 to 6

1 pump stroke (grease gun) distributes: 0.5 cm³ / piston displacement.

4. TECHNICAL DATA FOR PRODUCTS

LUBER DRIVE KIT (CAPACITY, NAME OF THE LUBRICANT)

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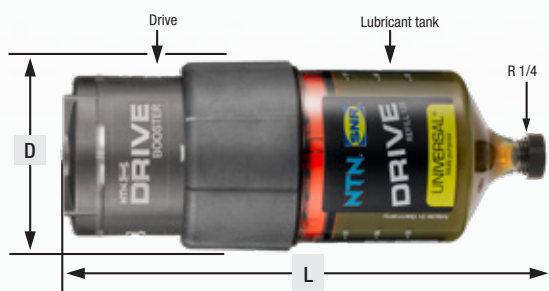
Complete kit (Motor + 120 or 250 cm³ lubricant tank + battery pack + reinforced base + 4 adapters).

LUBER DRIVE REFILL (CAPACITY, NAME OF THE LUBRICANT)

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120 or 250 cm³ lubricant tank + battery pack.

Capacity	120 cm ³ or 250 cm ³		
Duration of distribution	Adjustable from 1 to 12 months		
Ambient temperature range	From -10°C to +60°C		
Maximum service pressure	6 bar		
Drive	Electromechanical		
Maximum distance allowable between the automatic lubricator and the lubrication point	Oil 5 metres and inner diameter 4 mm Grease 5 metres and inner diameter 6 mm		
Status indicators	In good working order, operational, empty, defective		
Recommended storage temperature	20°C		
Maximum storage time	1 year of storage (grease) + 1 year of service		
Battery pack	3 x 1,5 V AA		
Adapters included in the kit	Adapter G1/4 – G1/8 Adapter G1/4 – M8 X 1	Adapter G1/4 – M6 Adapter G1/4 – M10 X 1	
Weight (with lubricant)	DRIVE BOOSTER 120 DRIVE BOOSTER 250	Approx. 500 g Approx. 650 g	



Type	Volume (cm ³)	Diameter D (mm)	Total length L (mm)
REFILL 120	120	75	178
REFILL 250	250	75	228



Drive 120 CC										
Setting / months	1	2	3	4	5	6	7	8	9 12
Lubricant / day	4.0	2.0	1.3	1.0	0.8	0.7	0.6	0.5	0.4	0.4
Lubricant / 100 hours	16.7	8.3	5.6	4.2	3.3	2.8	2.4	2.1	1.9	1.5
Lubricant / week	28.0	14.0	9.3	7.0	5.6	4.7	4.0	3.5	3.1	2.5
Pump strokes / day	8	4	2.6	2	1.6	1.4	1.2	1	0.8	0.8
Pump strokes / day	33	16	13	8.5	6.5	5.6	5	4	4	3
Pump strokes / week	56	28	18.5	14	13	9.5	8	7	6	5

Drive 250 CC										
Parametering/months	1	2	3	4	5	6	7	8	9 12
Lubricant / day	8.3	4.2	2.8	2.1	1.7	1.4	1.2	1.0	0.9	0.7
Lubricant / 100 hours	34.7	17.4	11.6	8.7	6.9	5.8	5.0	4.3	3.9	3.1
Lubricant / week	58.3	29.2	19.4	14.6	11.7	9.7	8.3	7.3	6.5	5.2
Pump strokes / day	17	8	6	4	3.5	3	2.5	2	2	1.5
Pump strokes / 100 hours	69	35	23	17.5	14	11.5	10	8.5	8	6
Pump strokes / week	116	58	39	29	23.5	19	16.5	14.5	13	10.5

1 pump stroke (grease gun) distributes: 0.5 cm³/ piston displacement.

4. TECHNICAL DATA FOR PRODUCTS

POLIPUMP-2KG-(12-24-35) PUM-(12-24) VDC-(IND-NRUN)

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An electric pump with integrated tank, POLIPUMP is designed to be used with pumping units.

The IND model is designed for industrial applications.

The NRUN model is designed for industrial vehicles (trucks, building and civil engineering works and farming vehicles).

1) TECHNICAL CHARACTERISTICS

Pumping system		Single-acting pumping elements with cam activation	
Drive assembly		CC motor with reduction gear	
Electrical supply		12 VDC	24 VDC
Electronic protection threshold for motor overload		0.6 A	
Net weight		3.4 kg (2.2 lb)	
Number of outputs/max/version		12 – 24 – 35	
Connection of pumping elements		Instantaneous for Ø 4 (5/32 inches)	
Nominal output per pumping element		0.02 cm³/stroke 0.03 cm³/stroke 0.04 cm³/stroke 0.08 cm³/stroke 0.10 cm³/stroke 0.13 cm³/stroke	RED (1 notch) GREEN (2 notches) YELLOW (3 notches) BLUE (4 notches) GREY (5 notches) BLACK (6 notches)
Max. discharge pressure		80 bar	
Tank capacity	Standard model	2 L (0.53 gallons)	
	Model with follower plate	4 L (1.06 gallons)	
Compatible grease (except silicone-based grease)		NLGI00 to NLGI2	
Operating temperature		-10°C to +60°C (+14°F to +140°F)	
Storage temperature		-20°C to +80°C (-4°F to +176°F)	
Sound level		< 70 dB (A)	
Minimum level indication		Hall effect sensor	
CONTROL PANEL CHARACTERISTICS			
Electrical supply		12 VDC – 24 VDC	
Operating temperature		-10°C to +60°C (+14°F to +140°F)	
Storage temperature		-20°C to +80°C (-4°F to +176°F)	
Characteristics		• Protection against motor overloads • Input power supply protection • Remote alarm signal • End of cycle control sensor	
Protection level		IP 65	
Relay alarm contact		NC (open during alarm) – I _{max} 5 A - V _{max} 250 V – P _{max} 60 W	

2) INSTALLATION OF PUMPING ELEMENTS AND PLUGS

The pumping elements are not supplied with the pump. They must be ordered separately depending on the number of lubrication points required and then installed prior to operation.

Each pumping element includes a colour code corresponding to the discharge volume and is simply be screwed into the appropriate outlet port. All unused ports must be blanked with the supplied plugs.

Positioning of pumping elements

Select a location for the first pumping element and then distribute the other elements in the outlet header ports according to the instructions in the table below and in the diagram (fig.1).

Number of outlets used	POSITION OF PUMPING ELEMENTS	Number of outlets used	POSITION OF PUMPING ELEMENTS	Number of outlets used	POSITION OF PUMPING ELEMENTS
Row 1		Row 2		Row 3	
1	1	13	13	25	25
2	1-7	14	13-19	26	25-31
3	1-5-9	15	13-17-21	27	25-29-33
4	1-4-7-10	16	13-16-19-22	28	25-28-31-34
5	1-2-4-7-10	17	13-14-16-19-22	29	25-26-28-31-34
6	1-3-5-7-9-11	18	13-15-17-19-21-23	30	25-27-29-31-33-35
7	1-2-4-5-7-9-11	19	13-14-16-17-19-21-23	31	25-26-28-29-31-33-35
8	1-2-4-5-7-8-10-11	20	13-14-16-17-19-20-22-23	32	25-26-28-29-31-32-34-35
9	1-2-3-5-6-7-9-10-11	21	13-14-15-17-18-19-21-22-23	33	25-26-27-29-30-31-33-34-35
10	1-2-3-4-5-6-7-9-10-11	22	13-14-15-16-17-18-19-21-22-23	34	25-26-27-28-29-30-31-33-34-35
11	1-2-3-4-5-6-7-8-9-10-11	23	13-14-15-16-17-18-19-20-21-22-23	35	25-26-27-28-29-30-31-32-33-34-35
12	1-2-3-4-5-6-7-8-9-10-11-12	24	13-14-15-16-17-18-19-20-21-22-23-24		

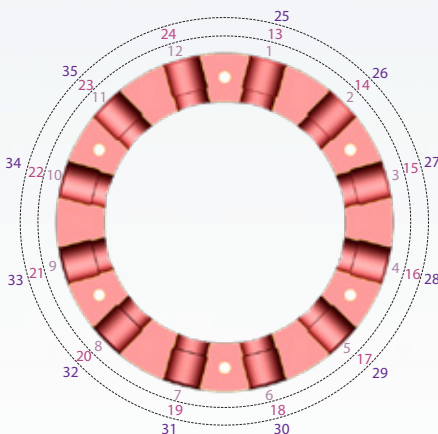
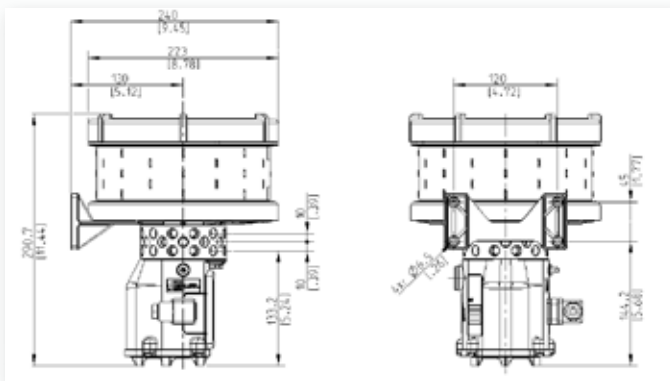


Fig.1 : positioning of pumping elements depending on the number of outlets used.

Tighten the pumping elements (12 mm wrench) and the plugs (6 mm Allen key) applying a torque of 10 Nm.

3) ELECTRICAL CONNECTION DIAGRAM

Dimensions



NRUN: model designed for industrial vehicles. The connection with general activation (NRUN) allows the use of the pump with the machine in closed-loop control. The pump operates only if the activation signal is present, otherwise it remains in standby mode; the external activation signal is a standard +5V logical signal.

12 VDC-IND

1 = 12VDC +
2 = ALARM NO out
3 = ALARM COM out
⏏ = 12VDC -



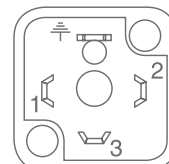
24 VDC-IND

1 = 24VDC +
2 = ALARM NO out
3 = ALARM COM out
⏏ = 24VDC -



12 VDC-NRUN

1 = 12VDC +
2 = NRun in
3 = ALARM out
⏏ = 12VDC -



24 VDC-NRUN

1 = 24VDC +
2 = NRun in
3 = ALARM out
⏏ = 24VDC -

