



## Characteristics

- **Dual pump modules** as standard for maximum uptime and redundancy.
- **Quick swap** pump modules mean zero downtime and disruption to pipe-work during pump maintenance.
- High output and pressure make large extended systems possible:
  - 400cm<sup>3</sup>/min (24cu. in)
  - 2x200 cm<sup>3</sup>/min Modules
  - 400 Bar (5880 psi)
- Electrical dual line inverter integrates directly onto outlet.
- Minimum level capacitance switch and visual maximum level as standard.
- Handles Grease **NLGI 2**.
- Supplied on a fixing pallet as standard for ease of transportation and installation.

## Applications

- **A high performance pump solution for heavy duty applications in demanding environments such as the pulp & paper and steel industry.**

**Dropsa SUMO Pump system is protected by worldwide Patents.**

# Pump Series SUMO

## The flexible high performance heavy duty electric grease pump solution

### DUAL PUMPING MODULE

A generous 400 cm<sup>3</sup>/min flow, is provided by twin 200cm<sup>3</sup>/min pump modules installed in tandem configuration providing up to 400bar (5880 psi).

The twin pump module provides redundancy for high uptime – it allows the system to continue working even if one pump module becomes ineffective.

Sumo pump is suitable for large single line or dual line systems.

### INSTRUMENTATION MODULES

Sophisticated add on instrumentation modules and options means even complex requirements can be met with off-the-shelf standard product.

### QUICK SWAP SYSTEM

BOTH **PUMPING MODULES** can be quickly replaced from the front mounting of the pump. No pipe work needs to be disrupted meaning near-zero downtime during maintenance.

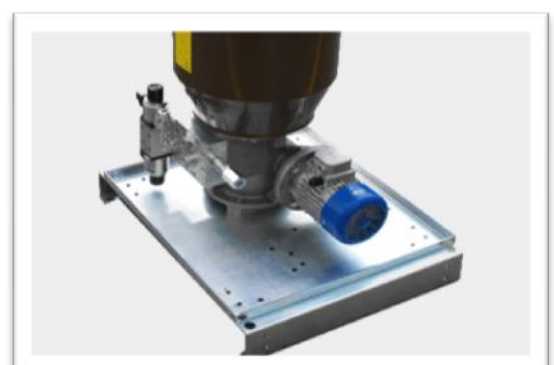
### DUAL LINE OR SINGLE LINE IS EASY

The outlet plate fixing system has both Pressure and Return ports.

The outlets are directly compatible with Dropsa's electrical or pneumatic line inverters (including Modular version).

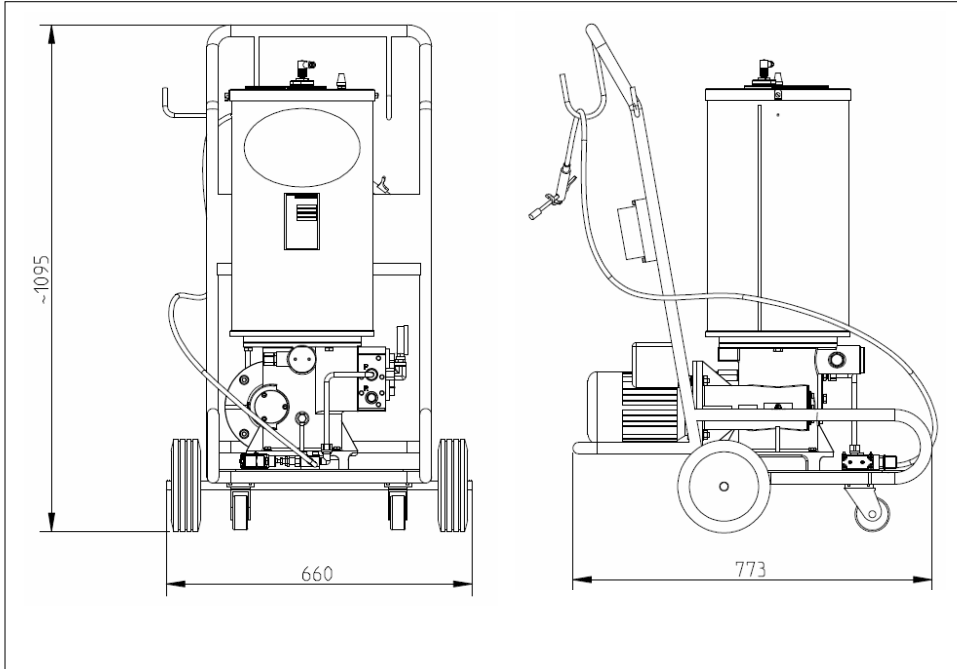
### ADVANTAGES :

- **Adjustable pump element:** available as optional.
- **Reduced Investment:** with *Dual Pumping Modules*, the system can continue even if one pump module becomes ineffective providing redundancy and reducing need for a complete second standby pump.
- **Fast maintenance:** *Quick swap* pump modules can be replaced in seconds. Pipe work untouched means less chances of contamination
- **Compact modular design:** eliminates external piping of components.



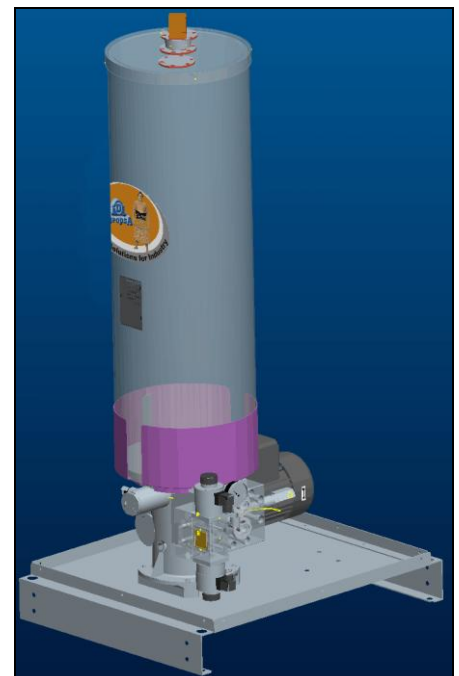
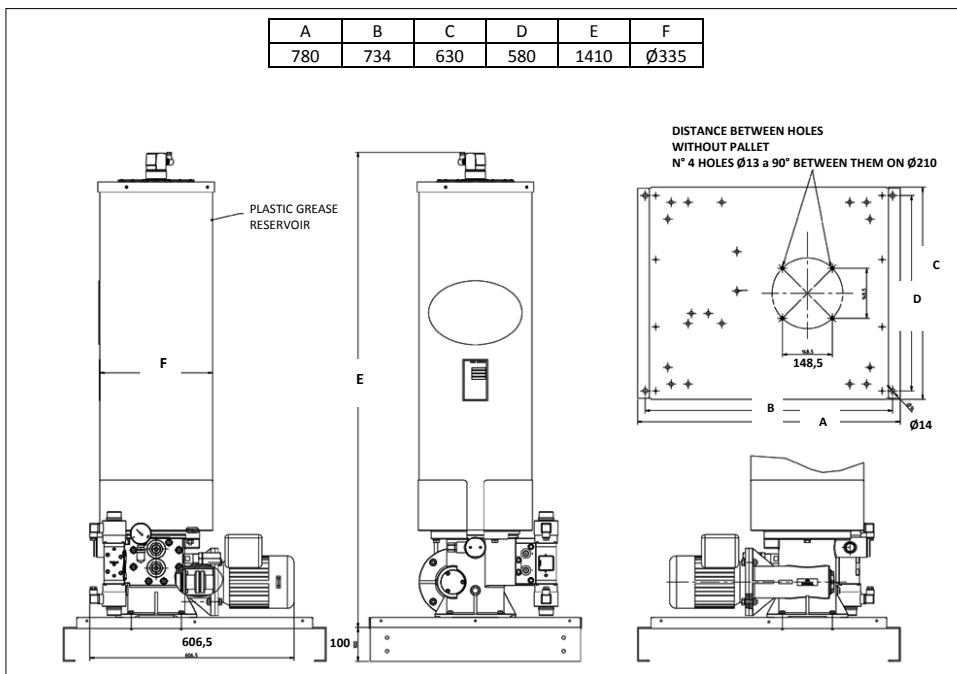
## SUMO Trolley Mounted

Sumo Pump trolley mounted 30 Kg metal reservoir; the system is complete of electrical equipment who allows engine control when the pressures exceed those previewed or in case of operation anomalies of distribution of the lubricating (gun with control valve).



## SUMO Transparent Reservoir Version

Sumo Pump 80 Kg with transparent reservoir made of polyethylene for special applications.



## Dual Line System

Sumo Pump is ideal for those applications that use Single and Dual Line. 400cm<sup>3</sup> (2x200cm<sup>3</sup>) pump modules installed in tandem configuration provide 400bar (5880 psi) and redundancy. This allows the system to continue working even if one pump module becomes ineffective. Sumo pump is suitable for large single line or dual line systems.

### Simple and reliable particularly in harsh environmental

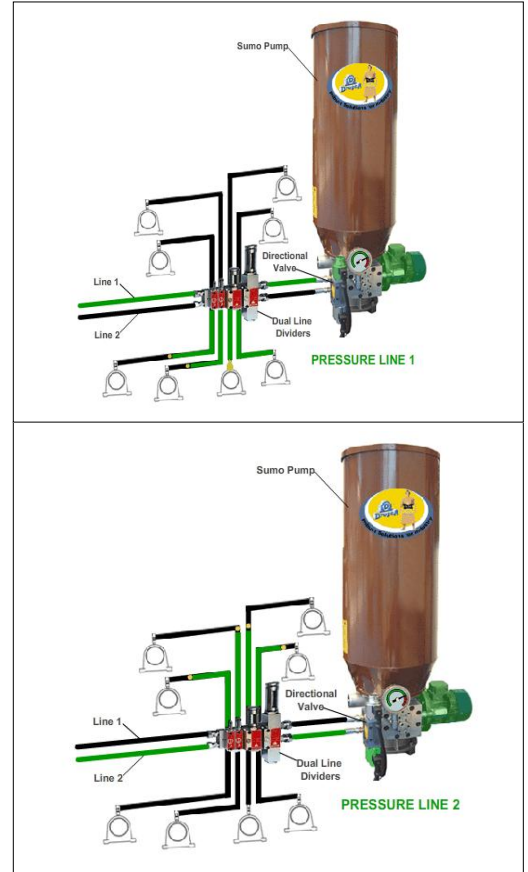
Lubrication systems engineered with the Dual Line System are generally used on large scale machinery and in harsh operating conditions to lubricate multiple points on large machines. The system can grow to a very complex one with a length that often can exceed 60 meters. The large section of pump packages together with many custom design options allows any lubrication system to be developed reliably and cost-effectively.

### Advantages:

- Can be used at high pressures (400 Bar / 5880 psi)
- Easy Expansion or modification of the system
- Modular Elements (using the modular dual-line system) allows the element to be changed quickly and without disconnecting pipe work.
- In the event of a blocked point or element, the remainder of the lubrication system continues to operate normally.

### Typical Applications:

- Paper Machines
- Steel Plants
- Cement Works
- Large Cranes and Loading Equipment



## Application examples

The Sumo Pump can be incorporated into many custom applications, as shown below:



SUMO Pump semi-transparent reservoir with end of line pressure switches and control panel in a stainless box installed on the standard pallet



SUMO 100kg Pump with custom yellow coating assembled on a custom Stainless 316 Skid assembly incorporating a PLC control system Manual back up pump and electric barrel pump for filling



SUMO ATEX Stainless 316 version with Ex d motor Reservoir

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## Technical & Order Informations

### TECHNICAL CHARACTERISTICS

Max. Pressure	400 bar
Output Flow Delivery	400 cm <sup>3</sup> / min (24 cu. in/min) (2 x 200 cm <sup>3</sup> (12 cu. in) moduli pompanti)
Operating Temperature	From - 5° C to + 50° C (from 23° to +122° F)
Operating Humidity	90% max
Protection grade	IP 55

#### Mineral Oil Lubricant

Viscosity at operating temperature	Min. 32 cSt
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#### Grease Lubricant

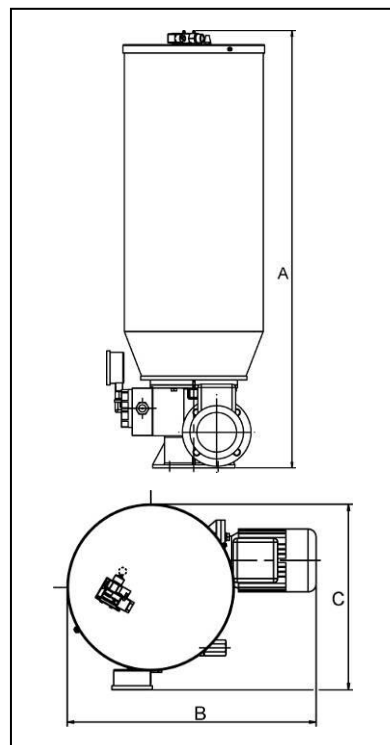
Viscosity at operating temperature	NGLI 2 Max.
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### STANDARD EQUIPMENT

Electric Motor	Three phase 0.75kW, Protection Grade IP55 class B Voltage: 220-380 Volt ± 5% 50 Hz 240-440Volt ± 5% 60 Hz S1 Continuous Duty
Reservoir	30 kg (66lb) or 100 kg (220 lb)
Level Indicator	Low Level capacitance level electrical signal (PNP) Visual maximum level
Adjustable By-Pass	200-400 bar (2950 – 5800 psi) 300 Bar (4410 psi) standard setting
Electrical Inverter Module	24V DC Inverter for pump outlet 110V AC 50/60Hz Inverter for pump outlet 230V AC 50/60HZ Inverter for pump outlet
Filling	Filling valve with filter
Pressure gauge	0-1000 bar (0-14700 psi) Front mounted

### DIMENSIONS MM (INCHES)

A	1020 (40.15), reservoir 30 kg
	1350 (53.14), reservoir 100 kg
B	615 (24.21), reservoir 30-100 kg
C	460 (18.11), reservoir 30-100 kg



EQUIPMENT	DESCRIPTION	PART NO.	
Sumo pump package with electrical inverter 24V DC	Grease pump 400 cm <sup>3</sup> /min (24 cu. in/min) 30 kg (66lb) reservoir	2477000	
	Grease pump 400 cm <sup>3</sup> /min (24 cu. in/min) 100 kg (220 lb) reservoir	2477001	
	Grease pump 400 cm <sup>3</sup> /min 80 Kg (176lb) transparent reservoir with inverter code 0083420 at 24 V DC	2477100	
	Oil pump 400 cm <sup>3</sup> /min (24 cu. in/min) 30 kg (66lb) reservoir	2477050	
	Oil pump 400 cm <sup>3</sup> /min (24 cu. in/min) 100 kg (220 lb) reservoir	2477051	
Trolley mounted	SUMO ATEX Pump in Stainless Steel 316	2477201	
		1525212	
<b>Optional Add-ons and Instrumentation</b>		<b>Inverter</b>	<b>+ Base</b>
Dual line electrical inverter + Base	24V DC	0083420	0295046
	110V AC 50/60Hz	0083421	
	230V AC 50/60HZ	0083422	
Transparent reservoir	reservoir that includes the tank (p.n. 0295056)and all accessories required for use	0295210	
Dual line electrical inverter	24V DC	0083400	
	110V AC 50/60Hz	0083401	
	230V AC 50/60HZ	0083402	
Pneumatic inverter	24 VDC	0083450	
	24V AC 50/60Hz	0083451	
	110V AC 50/60Hz	0083452	
	230V AC 50/60HZ	0083453	
Ultrasound Level	Ultra sounds level switch continuous reading 4..20mA	0295140	
Laser Level	Laser level 2 digital outlets with 4 levels or 4..20mA	0295130	
Pump Modules	Spare 200cm <sup>3</sup> /min (24 cu. in) pump module	0295040C	
	Adjustable 100 - 200cm <sup>3</sup> /min (12-24 cu. in) pump module	0295060	
	Blanking plug for unused pump cavity	0295049	
Oil conversion	Conversion kit for Oil system 30 Kg (66lb) w/filler cap	0295150	
	Conversion kit for Oil system 100 Kg (220lb) w/filler cap	0295160	
	Filling cap with filter	3130138	