## 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:
- 380 cm<sup>3</sup>/min (22.8 cu. in/min) - 2x190 cm<sup>3</sup>/min per 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.

# **A**PPLICATIONS

- HEAVY DUTY
   APPLICATIONS IN
   DEMANDING
   ENVIRONMENTS
- STEEL INDUSTRY
- PULP & PAPER
- CEMENT WORKS
- STEEL PLANT
- OFF-SHORE
- LARGE CRANES AND LOADING EQUIPMENT

# **ELECTRIC PUMP SOLUTION SUMO II**

#### THE FLEXIBLE HIGH PERFORMANCE HEAVY DUTY

 $\mbox{\sc 'SUMO II'}$  is the Dropsa electric pump suitable for large single line or dual line systems.

#### **DUAL PUMPING MODULE**

A generous 380 cm<sup>3</sup>/min flow, is provided by twin 190 cm<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.

#### **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).



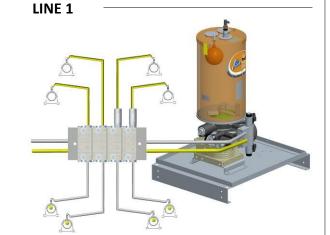
### **DUAL LINE SYSTEM**

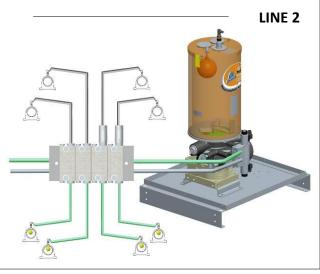
# SIMPLE AND RELIABLE PARTICULARLY IN HARSH ENVIRONMENTAL

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:**

- 1. 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.
- 3. Fast maintenance: Quick swap pump modules can be replaced in seconds. Pipe work untouched means less chances of contamination.
- 4. Compact modular design: eliminates EXTERNAL PIPING OF COMPONENTS.



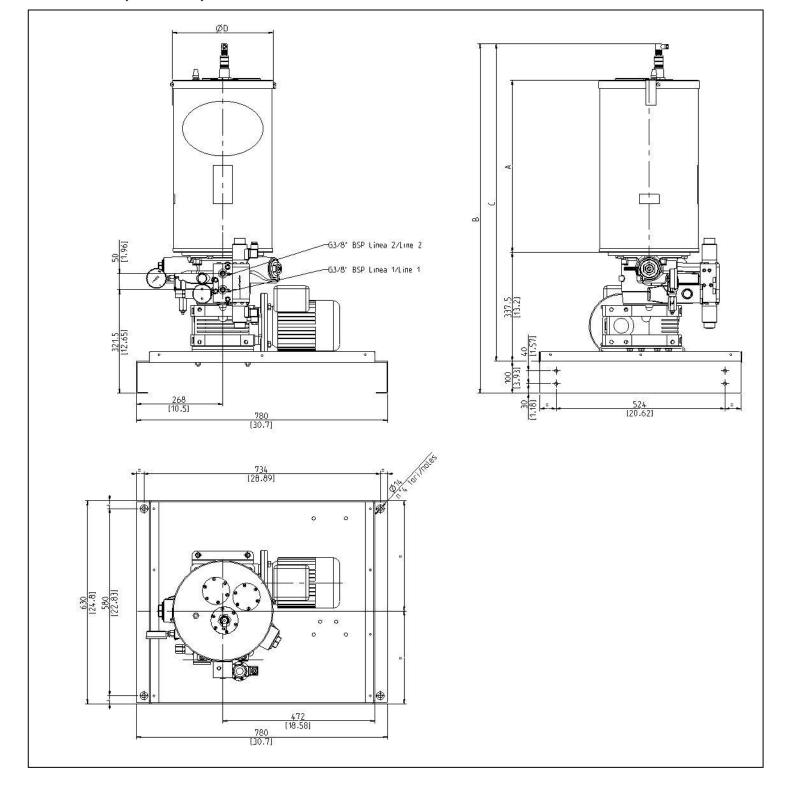




# **TECHNICAL INFORMATION**

TECHNICAL CHARACTERISTICS			
Max pressure	5880 psi (400 bar)		
Output Flow Delivery	380 cm <sup>3</sup> / min (22.8 cu. in/min) total (standard) 190 cm <sup>3</sup> (11.59 cu. in) single pumping		
Operating Temperature	- 10 ÷ + 50 °C (+14÷122F)		
Operating Humidity	90% max		
Protection grade	IP 55		
Viscosity at operating temperature	Mineral oil lubricants Min. 32 cSt max. 1000 cSt		
viscosity at operating temperature	Grease lubricants NGLI 2 Max.		

# **DIMENSIONS (NOT TO SCALE)**





N.B. The part number of the pump is composed by 7 numbers. Numbers 8, 9 e 10 must be used only for additional options.

Standard **Optional** 10° 11° 4° 5°/6° 7° 8° 9° Data base **PUMP** 245 0 00 0 0 0 0 0 **DESCRIPTION** Part No. CODE 0 Reservoir 30kg 0295080 1 100kg 0295090 Motor not present 00 STANDARD a norma IE2 230/400V 50Hz - 280/480V 3301081 01 60Hz 3301650 02 440 V 60 Hz 3301651 440 V 60 Hz with anti-condensation heater 110V AC 03 3301652 460 V 60 Hz 04 3301653 05 575 V 60 Hz 3301654 06 500 V 50 Hz 3301655 07 525 V 50 Hz **Triphase electric** 3301656 550 V 50 Hz 08 motor 380 V 60 Hz 3301659 09 UL and CSA standard with IE2 230/400V 50 Hz -3301528 50 280/480V 60Hz 440 V 60 Hz 3301670 51 460 V 60 Hz 3301671 **52** 460V 60Hz con scaldiglia anticondensa 120V 3301556 53 575 V 60 Hz 3301672 54 3301673 500 V 50 Hz 55 550 V 50 Hz 3301674 56 UL and NEMA standard 230/460V 60 Hz 80 On request **Pneumatic motor** 3301539 95 **Inverter NOT PRESENT** 0 24 V DC 4/3 Valve 0083550 1 4/2 Electromagnetic From 24 V DC 0083560 2 inverter 4/2 electro From 24 V DC 0083440 3 pneumatic inverter Hydraulic inverter 0086450 4 **Optional** Laser level standard 24V cc Out NO e NC (1 threshold) 0295131 0 Minimum Level Laser with 2 outlets digital configurable and 4÷20mA 0295130 1 Float Reed for oil 30kg 0295150+3130138 2 Float Reed for oil 100kg 0295160+3130138 3 0295100 Floating visual level 0 Maximum Level 0295131 Laser 24V cc Out NO and NC (1 threshold) 1 (for 30kg and 100kg) **Heating Band NOT PRESENT** 0 **Heating Band** 100 kg Pump Heating Band 0295065 1 2 30 kg Pump Heating Band 0295066 The pump is equipped with 2 pumping elements with 0296080 0 fixed flow rate 0296080+ **Pumping elements** 0295049 1 pumping element with fixed flow rate 1 +3190489-3190491



# SUMOII

OPTIONAL				Q.T
	Min/max oil level float kit 30 Kg (66lb)	$\circ$	0295150	
Oil conversion	Min/max oil level float kit 100 Kg (220lb)	0	0295160	
	Filling cap with filter	0	3130138	
Terminal Box bracket	Bracket for installing a terminal wiring box onto the base pallet	0	3044455	
Terminal	Terminal box		0291655	
Electrical control box Bracket	Bracket for installing a control box onto the base pallet	0	3044456	
Metal pallet	Metal Pallet used as the base of the packaging and also for installation of the pump	0	0297150	

SPARE PARTS		Q.TY
Motors	3Ph - 0,75 Kw IE2- 230Δ/400Y 50Hz 280Δ/480Y 60Hz	3301081
	3Ph UL e CSA - 0,75 Kw IE2- 230Δ/400Y 50H 280Δ/480	Y 60Hz 3301528
Reducer i=40		3301608
Maximum mechanical level kit meccanico 30 e 100 Kg (grasso)		O295100
Laser probe assembly 30÷100 Kg - 24V cc Out NO e NC (1 threshold)		O295131
Laser level kit 24V cc Out 4÷20mA/2 NO (4 thresholds) – 30 Kg		
Laser level kit 24V cc Out 4÷20mA/2 NO (4 thresholds) – 100 Kg		O295130 <del></del>
Minimum level kit (250V AC) 30 kg (grease)		O295121
Minimum level kit (250V AC) 100 kg (grease)		O295122
Grease loading filter		O295009
By-pass		O234815
Pressure gauge 0 - 600 Bar		3292171
Pumping		O296080



Info Distributor: