



## INJECTION PUMPS

FAST AND EFFICIENT OPERATION



## EFFICIENT AND RELIABLE INJECTION EQUIPMENT TO ACHIEVE THE BEST RESULTS.

For more than 50 years LARIUS has manufactured a wide range of products to meet the demands in different material injection applications: crack injection, horizontal sealing, curtain and masonry injection, repair and sealing expansion joints, underground water control, soil stabilisation, pipe leak sealing, slurry wall and slab joints sealing, etc.

LARIUS products provide a high performance and have a robust and compact design that facilitates their transportation.

- Constant pressure during the injection process
- Efficient material suction and regular product delivery
- Easy to use and simple maintenance

### SOIL STABILISATION • WATER CONTROL UNDERGROUND • LEAK SEALING

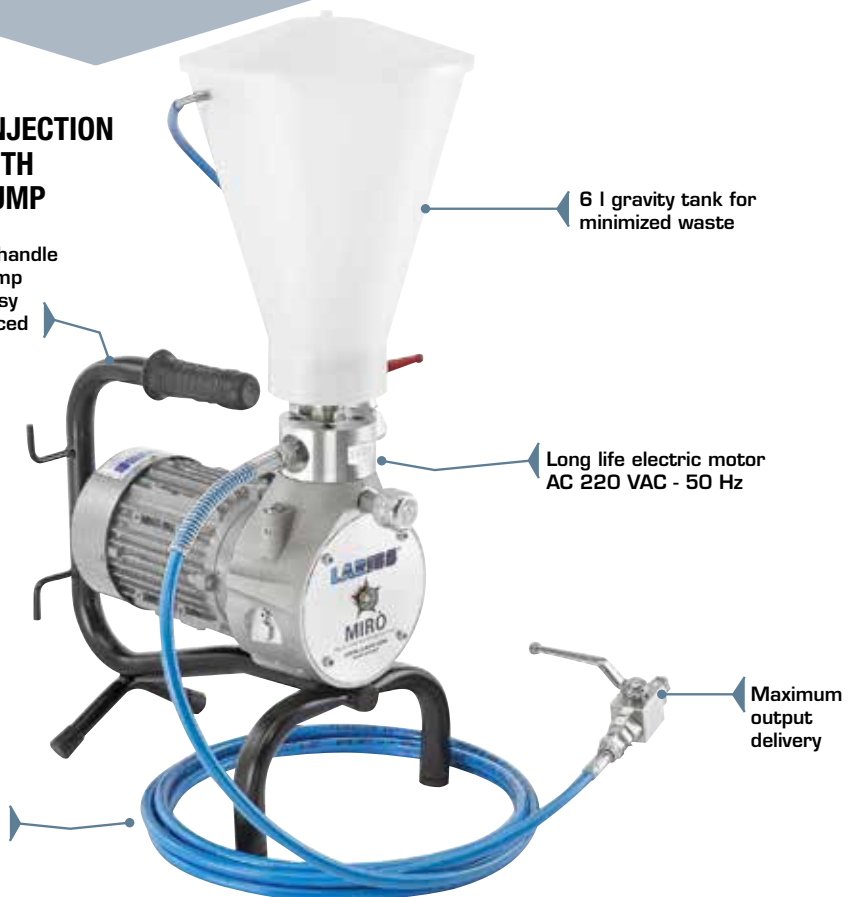
#### DIFFERENT TECHNOLOGIES FOR DIFFERENT APPLICATIONS

- **Electric airless diaphragm pumps.**  
Recommended for the injection of low viscosity resins.
- **Electric airless cold diaphragm pumps.**  
Recommended for the injection of heat sensitive resins, to avoid altering their chemical composition and to prevent its catalysis inside the pump.
- **Electric airless piston pumps.**  
Recommended for the injection of high viscosity resins.
- **Low pressure pneumatic pump.**  
Recommended for the injection of medium-high volumes of low viscosity resins that are sensitive to pressure action.
- **2K pneumatic systems 1:1**  
Recommended for the injection of high volumes of two-component resins with a high viscosity and with very fast chemical reactions.

#### LONG LIFE INJECTION PACKAGE WITH ELECTRIC PUMP

Off-set carrying handle balances the pump weight for an easy transport. Reduced storage space.

Long life, high flexibility, high pressure hose



#### MATERIALS

- STRUCTURAL RESINS
- WATERPROOFING HYDRO-EXPANSIVE RESINS
- EPOXY RESINS
- ACRYLIC RESINS
- SILICONE RESINS
- SILICATIC RESINS
- POLYURETHANE RESINS
- SEALANT GEL

#### APPLICATIONS

- UNDERGROUND BOXES
- GROUND WALLS
- HANGING GARDENS
- PRE-SLABS
- CRACKS
- JOINT BETWEEN MASONRY AND FOUNDATIONS
- JOINT BETWEEN MASONRY AND FLOOR
- CELLARS
- PIT LIFTS
- GALLERIES AND TUNNELS

# ELECTRIC AIRLESS DIAPHRAGM AND PISTON PUMPS



## TECHNICAL DATA

MODEL	MIRÒ	DALÌ	JOLLY	ZEUS
TYPE OF PUMP	Electric diaphragm	Electric diaphragm	Electric Piston	Electric Piston
VERSION	Frame - Trolley	Trolley	Frame - Trolley	Trolley
MAX. DELIVERY	2,2 l/min	4 l/min	1,9 l/min	4 l/min
MAX. WORKING PRESSURE	220 bar	220 bar	220 bar	220 bar
MOTOR POWER	0,75 Kw	1,1 Kw	0,7 Kw	2 Kw
VOLTAGE	220 VAC - 50 Hz	220 VAC - 50 Hz	220 VAC - 50 Hz	220 VAC - 50 Hz
UNIT WEIGHT	20 kg Frame 23 kg Trolley	38 kg	15 kg Frame 16 kg Trolley	58 kg
MIN. POWER GENERATOR SINGLE PHASE	3 Kw	3 Kw	4 Kw	5 Kw
SOUND PRESSURE LEVEL	≤ 65 dB (A)	≤ 65 dB (A)	≤ 80 dB (A)	≤ 60 dB (A)

# ELECTRIC AIRLESS PUMP PACKAGE MODELS

MODEL	P.N	BELT CONNECTION	FRAME	TROLLEY	DIAPHRAGM	PISTON	HOSE	COMPLETE VALVE	TANK	GAUGE
MIRÒ Diaphragm pump	K21571	-	•	-	•	-	P.N 6164 Ø 3/16" x 5 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 35101 6 l	P.N 147 0/400 bar
	K21571/1	•	-	•	•	-	P.N 6164 Ø 3/16" x 5 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 35101 6 l	P.N 147 0/400 bar
DALÌ Diaphragm pump	K18968/3	•	-	•	•	-	P.N 6164 Ø 3/16" x 5 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 35101 6 l	P.N 147 0/400 bar
JOLLY Piston pump	K56500/3	-	•	-	-	•	P.N 18026 Ø 1/4" x 15 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 35101 6 l	P.N 147 0/400 bar
	K56500/4	-	-	•	-	•	P.N 18026 Ø 1/4" x 15 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 35101 6 l	P.N 147 0/400 bar
ZEUS Piston pump	K35100/2	-	-	•	-	•	P.N 18026 Ø 1/4" x 15 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	-	P.N 147 0/400 bar

\* Different motor power supply available on request.

# LOW PRESSURE PNEUMATIC PUMP

## TECHNICAL DATA

MINIPEGASO	
TYPE OF PUMP	Pneumatic double diaphragm pump
VERSION	Trolley mounted
MAX. WATER FLOW RATE	40 l/min
MAX. FLUID PRESSURE	7 bar
MAX. AIR PRESSURE	7 bar
POWER	Compressed air
MAX. HOSE LENGTH	30 m
UNIT WEIGHT	47 kg
SOUND PRESSURE LEVEL	≤ 50 dB (A)



## CONFIGURATION

P.N	TROLLEY	HOSE	COMPLETE VALVE	TANK
K20870/2	•	P.N 18510 Ø 3/8" x 15 m - M16X1.5	P.N 33040 Ball valve 3/8" - M10X1 Outlet	P.N 18245 50 l

# 2K PNEUMATIC SYSTEMS FOR TWO-COMPONENT RESINS

## 2K GHIBLI 10:1 - 15:1 - 20:1 TECHNICAL DATA

	2K GHIBLI 10:1 TWO PUMPS SYSTEM	2K GHIBLI 15:1 ONE MOTOR - TWO PUMP LOWERS SYSTEM	2K GHIBLI 20:1 ONE MOTOR - TWO PUMP LOWERS SYSTEM
<b>PART No.</b>	ENG1001 ENG1002	ENG1008	ENG1011
<b>VERSION</b>	Trolley mounted	Trolley mounted	Trolley mounted
<b>MIXING RATIO</b>	1:1	1:1	1:1
<b>MAX. AIR INLET</b>	7 bar	7 bar	7 bar
<b>MAX. FREE FLOW DELIVERY</b>	24 l/min 12 l/min for each pump	8 l/min 4 l/min for each lower	6 l/min 3 l/min for each lower
<b>MAX. WORKING PRESSURE</b>	70 bar	105 bar	140 bar
<b>MAX. CYCLES PER MINUTE</b>	60	60	60

## 2K GHIBLI INJECTION PACKAGES



2K GHIBLI 10:1 PART No. ENG1002	2K GHIBLI 10:1 WITH HEATERS PART No. ENG1001	2K GHIBLI 15:1 PART No. ENG1008	2K GHIBLI 20:1 PART No. ENG1011
2 - 96667 GHIBLI 10:1 short divorced - stainless steel	2 - 96667 GHIBLI 10:1 short divorced - stainless steel	1 - 96550 GHIBLI air operated motor	1 - 96551 GHIBLI air operated motor
2 - 7130 Automatic flow regulator for mastics 10 - 250 bar	2 - 7130 Automatic flow regulator for mastics 10 - 250 bar	1 - 96250 Pneumatic regulation group	2 - 96500 GHIBLI 40:1 pump lowers
2 - 91107 FR regulator 3/8"	2 - 91107 FR regulator 3/8"	2 - 96070 GHIBLI 30:1 pump lowers	2 - 96220 Line filter M16X1.5
2 - 18063 High pressure hose Ø 3/8" M16X1.5 - 7.5 m	2 - 18063 High pressure hose Ø 3/8" M16X1.5 - 7,5 m	2 - 96220 Line filter M16X1.5	2 - 16610 Suction system for viscous products
2 - 16612 Stainless steel hose for viscous products	2 - 16611 Stainless steel suction system for viscous products	2 - 16610 Suction system for viscous products	1 - 96250 Pneumatic regulation group
2 - 98056 Complete return stainless steel hose 1,5 m	2 - 150/2 Pressure gauge 0-60 bar - 3/8" revolving fitting	-	-
2 - 150/2 Pressure gauge 0 - 60 bar - 3/8" revolving fitting	2 - 6099 Heater	-	-
1 - 24483 Air group 1"	1 - 24483 Air group 1"	-	-

# 2K OMEGA INJECTION PACKAGE

## 2K OMEGA 40:1 TECHNICAL DATA

2K OMEGA 40:1 ONE MOTOR - TWO PUMP LOWERS SYSTEM	
<b>PART No.</b>	ENG1006
<b>VERSION</b>	Trolley mounted
<b>MIXING RATIO</b>	1:1
<b>MAX. FEEDING PRESSURE</b>	7 bar
<b>MAX. DELIVERY FREE FLOW</b>	8 l/min 4 l/min for each pump lower
<b>MAX. WORKING PRESSURE</b>	280 bar
<b>MAX. CYCLES PER MINUTE</b>	60

### 2K OMEGA 40:1 PART NO. ENG1006

1 - 7100 OMEGA air operated motor
2 - 98340 Stainless steel GHIBLI 30:1 pump lowers
2 - 16611 Stainless steel suction system viscous products
1 - 95145 Air group 1"
2 - 98388 Stainless steel line filter M16X1.5

# 2K NOVA INJECTION PACKAGES

## 2K NOVA 23:1 - 30:1 - 40:1 TECHNICAL DATA

	2K NOVA 23:1	2K NOVA 30:1	2K NOVA 40:1
	ONE MOTOR - TWO PUMP LOWERS SYSTEM		
<b>PART No.</b>	ENG1012 ENG1014	ENG1007	ENG1009
<b>VERSION</b>	Trolley mounted	Trolley mounted	Trolley mounted
<b>MIXING RATIO</b>	1:1	1:1	1:1
<b>MAX. FEEDING PRESSURE</b>	7 bar	7 bar	7 bar
<b>MAX. DELIVERY FREE FLOW</b>	28 l/min 14 l/min for each pump lower	24 l/min 12 l/min for each pump lower	18 l/min 9 l/min for each pump lower
<b>MAX. WORKING PRESSURE</b>	160 bar	210 bar	280 bar
<b>MAX. CYCLES PER MINUTE</b>	60	60	60

2K NOVA 23:1 WITH HEATERS PART No. ENG1012	2K NOVA 23:1 PART No. ENG1014	2K NOVA 30:1 PART No. ENG1007	2K NOVA 40:1 PART No. ENG1009
1 - 95060 NOVA air operated motor	1 - 95060 NOVA air operated motor	1 - 95060 NOVA air operated motor	1 - 95060 NOVA air operated motor
2 - 98200 NOVA 45:1 SS pump lowers	2 - 98200 NOVA 45:1 SS pump lowers	1 - 95145 Air group 1"	1 - 95145 Air group 1"
2 - 6099 Heater	1 - 95145 Air group 1"	2 - 95500 NOVA 60:1 pump lowers	2 - 65005 SUPER NOVA 80:1 pump lowers
1 - 24412 Gravity tank kit	-	2 - 95200 Complete NOVA filter	2 - 95200 Complete NOVA filter
-	-	2 - 95055 Suction system	2 - 95055 Suction system



# PROFESSIONAL ACCESSORIES TO IMPROVE YOUR RESINS APPLICATIONS

HEATER	BICOMPONENT GUN	PLASTIC STATIC MIXER
<p><b>Part No. 6099</b></p> <ul style="list-style-type: none"> <li>• Voltage 230 V</li> <li>• Maximum electric current 10A</li> <li>• Power 2.200 W</li> <li>• Max. operating pressure 300 bar</li> <li>• Temperature range 0 - 90 °C</li> <li>• Flow capacity: 60 l/h at 60 °C</li> </ul>  <p> Atex Certified EX II 3 G nC IIB T3 Gc</p>	<p><b>Part No. 18756</b> Stainless steel gun for 2K viscous products</p> 	<p><b>Part No. 23327</b> 3/8" - 13,77 cm</p>  

**LARIUS**®  
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