LARIUS®

Transfer - Extrusion - Injection pumps - Paint spraying equipment

Manufacturer in Italy since 1969

Electronic mixing, metering and dosing systems

Larius Industrial Technology Solutions

www.larius.eu

Electronic mixing units

Maximum calculation accuracy and regular flow for excellent finishing

Fields of application

- Wood and furniture industry
- Carpentry
- Marble and stone sector
- Farming and earthworks machinery
- Industrial vehicles
- Transportation vehicles
- Forestry equipment
- Heavy mechanics
- Light mechanics
- Metal industry
- Structural steel
- Electronics and electrical industry
- Electrical appliance industry
- Railway industry
- Plastics industry
- Aerospace industry
- Shipbuilding - Marinas
- Automotive industry
- Cycles and motorcycles
- Internal coatings of piping, basins, aqueducts...
- Roof coverings
- Tanning
- Mouldings and architectural finishes
- Platforms
- Wind towers

*Products applicable to 2K or multi components

- Paint, colouring and high solid hues
- Two-component epoxy resins
- Solvent based paint
- Isocyanates
- Polyurethanes
- Epoxy
- Polyesters
- Glues
- Sealants
- Silicones
- Adhesives
- Liquids and fluids

**Larius analyses the technical specifications sheet of the product to recommend the most suitable equipment for the required use.*

Areas of use

- Paintwork
- Anticorrosive coatings
- Leather working
- Resin application
- Glueing
- Sealing
- Silicon application
- Laminating and coating

Applications

- Manual for small batches with low consumption
- Automatic for complex applications that require automated production processes

Working conditions

- Airless
- Mist-less
- Low pressure
- Electrostatic

Advantages

- Configurations adjusted to suit the needs of the Customer
- Expandable memory even after installation
- No mixing error
- Good quality finishing thanks to the product mixed before the application
- Simplification and increase of production cycles
- Intuitive and user-friendly display with 4” or 7” touch screen management panel
- Mixing of the product being used without catalysed product waste
- Range of versatile equipment for every application type
- Reduction of paint and solvent waste in the washing phase
- Quantity of paint residues for disposal reduced to a minimum
- Quick return on the investment
- Optimisation of colour change times
- Short drying times
- Automatic washing
- Reduced maintenance
- USB connection for simple and quick data transmission
- Ethernet connection (on request)

An electronic mixing solution for every application need.

No processing waste caused by mixing errors. No waste.

The Larius mixing systems are conceived and designed to correctly mix resins, paints and liquids with two or more components and they work in any working conditions from the most critical with abrasive products, reactive paints and very viscous products. The systems are developed to optimise colour changing and washing operations in order to reduce waste and increase production activity.

The mechanical output and distribution of the product is constant and has maximum ratio accuracy. The “mixture” of the set colour recipe reaches the spray gun immediately for even application on the surface and even when the spray gun is opened and closed frequently, the flow capacity remains constant.

Compact and ready-to-use electronic mixers

Maximum product uniformity, no mixing error, several spray guns in operation

MIX 2K

Electronic mixing and dosing unit for 2 component applications

Mixing ratio including decimal places	Min 1:1 Max 30:1
Mixing accuracy	0.5%
Max. working pressure:	0-240 Bar
Max. air supply pressure	7 bar
Electric power supply	230 V (115 V)
Max. product flow capacity	8 l/m
Max. viscosity	Max. 10000 - cSt
Product temperature	0-50° C
Flow control	Flow meter or external sensor
Maximum configuration	1 A – 1 B
Washing	1 (on request 2)
Max. number of recipes	90
Material in contact with the fluid	PTFE , Tungsten Carbide, Stainless Steel, Galvanized Steel

Multicolour Mix

Electronic mixing and dosing unit for multiple-component applications

Mixing ratio including decimal places	Min 1:1 Max 30:1
Mixing accuracy	0.5%
Max. working pressure:	0-240 Bar
Max. air supply pressure	7 bar
Electric power supply	230 V (115 V)
Max. product flow capacity	8 l/m
Max. viscosity	Max. 10000 - cSt
Product temperature	0-50° C
Flow control	Flow meter or external sensor
Maximum configuration	On request
Washing	Dual
Max. number of recipes	90
Material in contact with the fluid	PTFE , Tungsten Carbide, Stainless Steel, Galvanized Steel

Main features

- Real time flow control of the components
- Electronic dosing and mixing ratio control
- Consumption control by production batch
- Alarm in the event of malfunction
- Pot-life time and relative alarm control
- Interface with external networks (on request)
- Management of products with different catalysers
- Automatic washing
- Siemens 4” colour touch screen display
- Ability to customize the menu and on-screen work options based on the language and requirements of the customer
- USB connection for simple and quick data transmission
- Ethernet connection for data transmission (on request)
- Scheduled maintenance feature for flow meters and valves by means of alert
- Powers multiple spray guns simultaneously

Advantages

- Customised configuration
- Expandable memory even after installation
- Simple and intuitive to use
- Maximum precision and reliability
- Uniform application
- Excellent finish
- Quick paint drying
- Saves time and material
- Reduced use of thinners in the washing phase
- Reduced consumption of solvents
- Minimum overall dimensions
- Installation even in existing systems
- Easy to service thanks to the open fluid panel

4” COLOUR TOUCH SCREEN DISPLAY

Selects the recipes and monitors operating parameters.
Siemens PLC control panel:
Memorisation >90 recipes
2K products
Washing programs
Monitoring of operating data

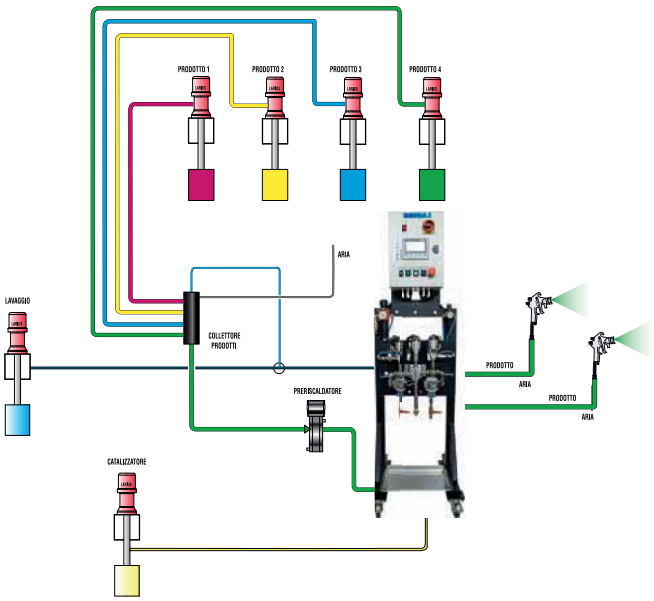
USB CONNECTION

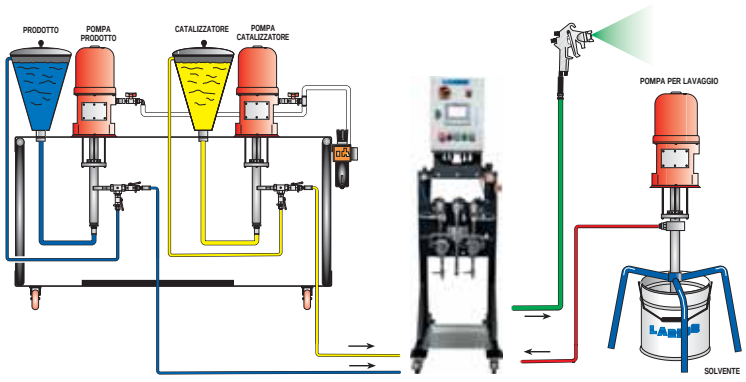
for quick data transmission

ETHERNET CONNECTION

EASY USE

4 buttons for the daily operations: Start, Stop, Wash, Change recipe





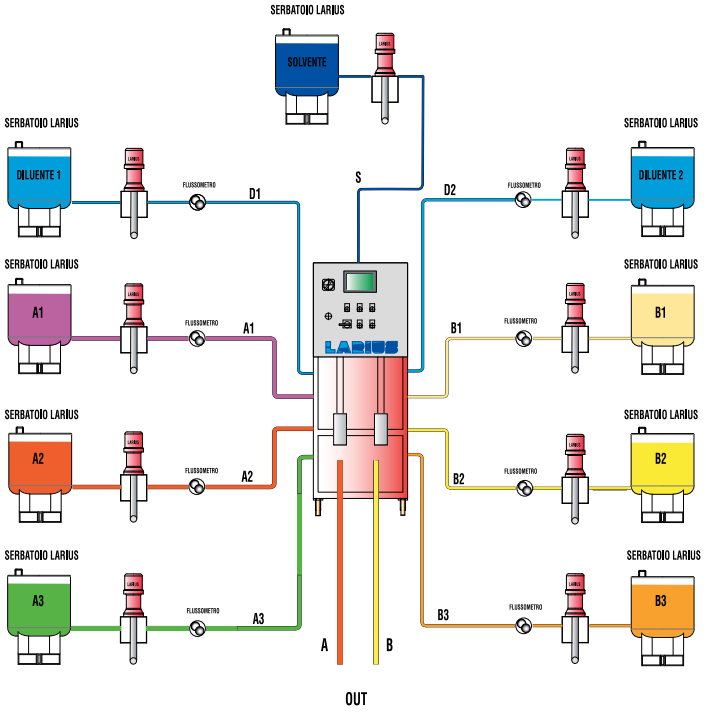
Compact and ready-to-use electronic mixers

Maximum product uniformity, no mixing error, more spray guns in operation

Multi K Mix

Electronic mixing and dosing unit for multicolour applications

Mixing ratio including decimal places	Min 1:1 Max 30:1
Mixing accuracy	0.5%
Max. working pressure:	0-240 Bar
Max. air supply pressure	7 bar
Electric power supply	230 V (115 V)
Max. product flow capacity	8 l/m
Max. viscosity	Max. 10000 - cSt
Product temperature	0-50° C
Flow control	Flow meter or external sensor
Maximum configuration	On request
Washing	Dual
Max. number of recipes	90
Material in contact with the fluid	PTFE , Tungsten Carbide, Stainless Steel, Galvanized Steel



Advantages

- Customised configuration
- Expandable memory even after installation
- Simple and intuitive to use
- Maximum precision and reliability
- Uniform application
- Excellent finishing
- Quick paint drying
- Saves time and material
- Reduced use of thinners in the washing cycle
- Reduced consumption of solvents
- Minimum overall dimensions
- Installation even in existing systems
- Easy to service thanks to the open fluid panel

7” COLOUR TOUCH SCREEN DISPLAY

Selects the recipes and monitors operating parameters
Siemens PLC control panel:
Memorisation >90 recipes
2K products
Washing programs
Monitoring of operating data

USB CONNECTION

for quick
data transmission

ETHERNET CONNECTION

EASY USE

4 buttons for the daily operations: Start, Stop, Wash, Change recipe

Main features

- Real time flow control of the components
- Electronic dosing and mixing ratio control
- Consumption control by production batch
- Alarm in the event of malfunction
- Pot-life time and relative alarm control
- Interface with external networks (on request)
- Management of products with different catalysers
- Automatic washing
- Siemens 7” colour touch screen display
- Able to customize the menu and on-screen work options based on the language and requirements of the customer
- USB connection for simple and quick data transmission
- Ethernet connection for data transmission (on request)
- Scheduled maintenance feature for flow meters and valves by means of alert
- Acting multiple spray guns simultaneously

Pumps range for 2K systems
Indoor & Outdoor

MODEL	Version	Measure-ments	Ø motor	Piston stroke	Max. flow rate	Supply Pressure	Air consumption at 60 cycles/min	Air inlet	Material inlet	Material Outlet	Max/min cycles	C.C. cycle
L2	Std				21 l /min	Max. 7 bar	7 bar 120 l /m	¼" GAS	½" GAS	½" GAS		
P33 1:1 ATEX: II 2G c IIB T4 Divorced	Std and Stainless Steel	long stubby	35 mm (1"3/8)	100 mm (4")	20 l /min	Max. 12 bar	3 bar 70 l /m 5 bar 110 l /m 7 bar 150 l /m	¼" GAS	**Divorced long** ball valve **Divorced stubby** M36X2	¾" GAS	100	200
P31 2:1 ATEX: II 2G c IIB T4 Divorced	Std and Stainless Steel	long stubby	35 mm (1"3/8)	100 mm (4")	10 l /min	Max. 12 bar	3 bar 70 l /m 5 bar 110 l /m 7 bar 150 l /m	¼" GAS	**Divorced long** ball valve **Divorced stubby** M36X2	¾" GAS	100	100
VEGA 5:1 Divorced In-line	Std And Stainless Steel	long medium short	76 mm (3")	76 mm (3")	10 l /min	Max. 8 bar	3 bar 198 l/m 5 bar 330 l/m 7 bar 462 l/m	3/8" GAS	**long - medium** ball valve **short** M36X2	**In-line** ½"GAS **Divorced** ¾" GAS	66	170
VEGA 23:1 Divorced	Std and Stainless Steel		76 mm (3")	76 mm (3")	2 l /min	Max. 8 bar	3 bar 198 l/m 5 bar 330 l/m 7 bar 462 l/m	3/8" GAS	¾" GAS (M)	3/8" GAS (F)	75	28
GHIBLI 3:1 Divorced	Std and Stainless Steel	long medium short	108 mm (4"¼)	102 mm (4")	45 l /min	Max. 7 bar	3 bar 500 l /m 5 bar 840 l /m 7 bar 1200 l /m	½" GAS	1 ½" GAS	1" GAS	66	680
GHIBLI 10:1 Divorced	Std and Stainless Steel	long medium short	108 mm (4"¼)	102 mm (4")	12 l /min	Max. 7 bar	3 bar 500 l /m 5 bar 840 l /m 7 bar 1200 l /m	½" GAS	**long - medium** ball valve **short** M36X2	¾"GAS	60	250
GHIBLI 30:1 Divorced	Std and Stainless Steel		108 mm (4"¼)	102 mm (4")	4,0 l /min	Max. 7 bar	3 bar 500 l /m 5 bar 840 l /m 7 bar 1200 l /m	½" GAS (F)	¾" GAS (M)	3/8" GAS (F)	60	60
GHIBLI 40:1 Divorced	Std and Stainless Steel		108 mm (44"¼)	102 mm (4")	3,0 l /min	Max. 7 bar	3 bar 500 l/m 5 bar 840 l/m 7 bar 1200 l/m	½" GAS (F)	¾" GAS (M)	3/8" GAS (F)	60	45
SIRIO 27:1 Divorced	Stainless Steel		230 mm (9")	102 mm (4")	9,2 l /min	Max. 7 bar	3 bar 760 l /m 5 bar 1260 l /m 7 bar 1760 l /m	¾" GAS (F)	1" GAS (F)	¾" GAS	60	153
SIRIO 30:1 Plunger Piston Divorced	Stainless Steel		230 mm (9")	102 mm (4")	7,5 l /min	Max. 7 bar	3 bar 760 l /m 5 bar 1260 l /m 7 bar 1760 l /m	¾" GAS (F)	¾" GAS (F)	½" GAS	60	125
SIRIO 32:1 Divorced	Stainless Steel		230 mm (9")	102 mm (4")	8,2 l /min	Max. 7 bar	3 bar 760 l /m 5 bar 1260 l /m 7 bar 1760 l /m	¾" GAS (F)	1" GAS (F)	¾" GAS	60	137
SIRIO 45:1 Plunger Piston Divorced	Stainless Steel		230 mm (9")	102 mm (4")	5 l /min	Max. 7 bar	3 bar 760 l /m 5 bar 1260 l /m 7 bar 1760 l /m	¾" GAS (F)	¾" GAS (F)	¾" GAS	60	83

L2

P33 1:1
P31 2:1

Vega 5:1

Vega 23:1

Ghibli 3:1

Ghibli 10:1

Atex ⟨Ex⟩ II 2 G c IIB T4 Certified - Atex ⟨Ex⟩ II 2 G c IIB T6 Certified

MODEL	Version	Measurements	Ø motor	Piston stroke	Max. flow rate	Supply Pressure	Air consumption at 60 cycles/min	Air inlet	Material inlet	Material Outlet	Max/min cycles	C.C. cycle
OMEGA 5:1 Divorced	Stainless Steel		254 mm (10")	120 mm (4"¾)	66 l /min	Max. 7 bar	3 bar 1100 l/m 5 bar 1800 l/m 7 bar 2500 l/m	¾" GAS	1 ½" GAS (F)	1 ½" GAS	60	1100
OMEGA 10:1 Divorced	Stainless Steel		178 mm (7")	120 mm (4"¾)	32 l /min	Max. 7 bar	3 bar 1100 l/m 5 bar 1800 l/m 7 bar 2500 l/m	¾" GAS	1 ½" GAS (F)	1 ½" GAS	60	530
OMEGA 15:1 Divorced	Stainless Steel		178 mm (7")	120 mm (4"¾)	23 l /min	Max. 7 bar	3 bar 1100 l/m 5 bar 1800 l/m 7 bar 2500 l/m	¾" GAS	1 ½" GAS (F)	1 ½" GAS	60	380
OMEGA 23:1 Divorced	Std and Stainless Steel		178 mm (7")	120 mm (4"¾)	14 l /min	Max. 7 bar	3 bar 1100 l/m 5 bar 1800 l/m 7 bar 2500 l/m	¾" GAS (F)	1 ½" GAS (F)	1" GAS (F)	60	230
OMEGA 30:1 Divorced	Std and Stainless Steel		178 mm (7")	120 mm (4"¾)	12 l /min	Max. 7 bar	3 bar 1100 l/m 5 bar 1800 l/m 7 bar 2500 l/m	¾" GAS (F)	1 ½" GAS (F)	1" GAS (F)	60	200
NOVA 10:1 Divorced	Stainless Steel		254 mm (10")	120 mm (4"¾)	66 l /min	Max. 7 bar	3 bar 2200 l/m 5 bar 3600 l/m 7 bar 5000 l/m	¾" GAS	1 ½" GAS (F)	1 ½" GAS	60	1100
NOVA 20:1 Divorced	Stainless Steel		254 mm (10")	120 mm (4"¾)	32 l /min	Max. 7 bar	3 bar 2200 l/m 5 bar 3600 l/m 7 bar 5000 l/m	¾" GAS	1 ½" GAS (F)	1 ½" GAS	60	530
NOVA 45:1 Divorced	Std and Stainless Steel		254 mm (10")	120 mm (4"¾)	14 l /min	Max. 7 bar	3 bar 2200 l/m 5 bar 3600 l/m 7 bar 5000 l/m	¾" GAS (F)	1 ½" GAS (F)	1" GAS (F)	60	230
NOVA 60:1 Divorced	Std and Stainless Steel		254 mm (10")	120 mm (4"¾)	12 l /min	Max. 7 bar	3 bar 2200 l/m 5 bar 3600 l/m 7 bar 5000 l/m	¾" GAS (F)	1 ½" GAS (F)	1" GAS (F)	60	200
NOVA 68:1 Divorced	Stainless Steel		254 mm (10")	120 mm (4"¾)	11 l /min	Max. 7 bar	3 bar 2200 l/m 5 bar 3600 l/m 7 bar 5000 l/m	¾" GAS (F)	1 ½" GAS (F)	1" GAS (F)	60	180

Pneumatic ice-breaker motor capable of reducing power loss due to freezing

Ghibli 30:1
Ghibli 40:1

Sirio 27:1
Sirio 30:1
Sirio 32:1
Sirio 45:1

Omega 10:1

Omega 23:1
Omega 30:1

Nova 10:1
Nova 20:1
Nova 45:1
Nova 60:1
Nova 68:1

Complete mixing systems

Accessories

- Gear-type flow meters
- Screw-type flow meters
- Mass flow meters for high viscosity products
- Integrated automation
- Spray gun automatic washing Box to reduce consumption of solvents in the washing phase and to reduce cleaning times. Simply press a button and pull the spray gun trigger and the mixer-lines-gun circuit is automatically washed.
- Heaters. Heating of some materials makes painting operations simpler and quicker

Advantages

- Customised configuration
- Simple and intuitive to use
- Maximum precision and reliability
- Uniform application
- Excellent finish
- Quick paint drying
- Saves time and material
- Reduced use of thinners in the washing phase
- Reduced consumption of solvents
- Minimum overall dimensions
- Installation even in existing systems
- Mixing head for correct mixing of the product and accurate washing
- The electronic distribution systems are available on wall mount or frame with wheels
- Easy to service thanks to the open fluid panel

The Larius electronic supply units are a practical, versatile and beneficial solution to optimise and simplify paint production cycles.

Thanks to the fact that they are compact and easy to transport, they are also easy to integrate into the working environment both in safe environments and, on request, for areas at risk of explosion.

All the operating parameters are set by the operator directly from the control panel. Simply connect the unit, set the main parameters and press the Start button. The software prevents dosing errors and checks the work flows to ensure a constant and precise mixing and dosing ratio.

A password system allows only authorised personnel to operate.

Main features

- Real time flow control of the components
- Electronic dosing and mixing ratio control
- Consumption control by production batch
- Alarm in the event of malfunction
- Pot-life time and relative alarm control
- Interface with external networks (on request)
- Automatic washing
- Siemens 4”/7” colour touch screen display
- Able to customize the menu and on-screen work options based on the language and requirements of the customer
- USB connection for simple and quick data transmission
- Ethernet connection for data transmission (on request)
- Scheduled maintenance feature for flow meters and valves by alarm warning
- Powers multiple spray guns simultaneously
- Ice-breaker pneumatic motors
- Optional connection to the spray gun automatic washing Box
- Possibility of configuration systems with multiple colours and catalysers (on request)

Supply systems and Complete systems

L2-2K 1:1 Low pressure

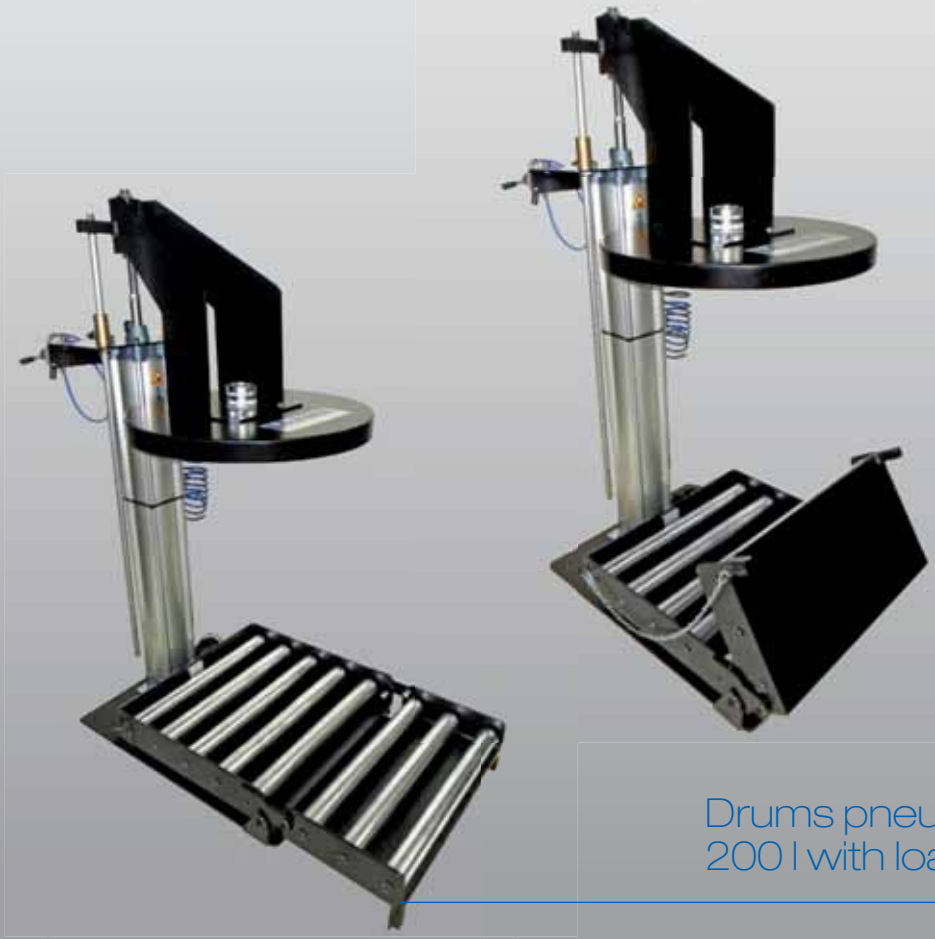
Ghibli Mix 2K Outdoor

Nova Mix 2K Outdoor

L2 on skid with grill
and stainless steel tank

Supply systems and Complete systems

Omega on grille with stainless steel tank and washing tank for two-component products



Drums pneumatic lift 200 l with loading roller

L2 on pneumatic lift with
grill and stainless steel container

L2 battery on skid

LARIUS®

Transfer - Extrusion - Injection pumps - Paint spraying equipment

Manufacturer in Italy since 1969

Technological solutions for any type of project

Larius is a specialised company that manufactures (entirely in Italy since 1969) products ranging from small spraying units to products for the most advanced specialised systems on the market for professional painting.

Our pumps are rigorously tested to guarantee operation for a long cycle of use and maximum performance in the preselected work mode.

The quality of Larius machine finishing and systems determines a perfect aesthetic look, without clots and running. Thanks in part to collaboration with major manufacturers of materials that are tested in the company in order to ensure a perfect synergy between the product and the pump that distributes it.

In order to meet the operational needs of the user, Larius cooperates with engineering university centres to test increasingly innovative and resistant components that make our pumps operation-ready in small spaces and large alike in extreme working conditions.

- Commissioned and ready to use equipment
- Original accessories and spare parts
- Qualified technical assistance
- Personalised technical courses, theoretical and practical, to learn how the equipment operates and its technical specifications

Larius works on an international level with a vast network of distributors, service centres and specialised consultants at your complete disposal.

LARIUS
Your job is our job every day.

Authorised Retailer

Channel: Larius Srl

www.larius.eu

Larius S.r.l. -Via A. Stoppani 21 - 23801 Calolziocorte (LC) ITALY
Tel. +39 0341 621152 - Fax +39 0341 621243 - larius@larius.com