Electronic mixing, metering and dosing systems
Larius Industrial Technology Solutions

www.larius.eu
**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.*
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.

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

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)

Working conditions
- Airless
- Mist-less
- Low pressure
- Electrostatic

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- Short drying times
- Automatic washing
- Reduced maintenance
- USB connection for simple and quick data transmission
- Ethernet connection (on request)
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

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

**Multicolour Mix**
Electronic mixing and dosing unit for multiple-component applications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Mixing ratio including decimal places</td>
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<tr>
<td>Flow control</td>
<td>Flow meter or external sensor</td>
</tr>
<tr>
<td>Maximum configuration</td>
<td>On request</td>
</tr>
<tr>
<td>Washing</td>
<td>Dual</td>
</tr>
<tr>
<td>Max. number of recipes</td>
<td>90</td>
</tr>
<tr>
<td>Material in contact with the fluid</td>
<td>PTFE, Tungsten Carbide, Stainless Steel, Galvanized Steel</td>
</tr>
</tbody>
</table>
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 catalysts
- 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

**USB CONNECTION**
for quick data transmission

**ETHERNET CONNECTION**

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

**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
## Multi K Mix
Electronic mixing and dosing unit for multicolour applications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing ratio including decimal places</td>
<td>Min 1:1 Max 30:1</td>
</tr>
<tr>
<td>Mixing accuracy</td>
<td>0.5%</td>
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</table>
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- 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

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 catalysts
- 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

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
## Pumps range for 2K systems
### Indoor & Outdoor

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Version</th>
<th>Measurements</th>
<th>Ø motor</th>
<th>Piston stroke</th>
<th>Max. flow rate</th>
<th>Supply Pressure</th>
<th>Air consumption at 60 cycles/min</th>
<th>Air inlet</th>
<th>Material inlet</th>
<th>Material Outlet</th>
<th>Max/min cycles</th>
<th>C.C. cycle</th>
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<tbody>
<tr>
<td><strong>L2</strong></td>
<td>Std</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>P33 1:1</strong></td>
<td>ATEX: II 2G c IIB T4 Divorced</td>
<td>Std and Stainless Steel</td>
<td>long</td>
<td>35 mm (1 3/4&quot;)</td>
<td>100 mm (4&quot;)</td>
<td>20 l/min</td>
<td>Max. 12 bar</td>
<td>3 bar 70 l/m</td>
<td>5 bar 110 l/m</td>
<td>7 bar 150 l/m</td>
<td>1/4&quot; GAS</td>
<td>1/2&quot; GAS</td>
</tr>
<tr>
<td><strong>P31 2:1</strong></td>
<td>ATEX: II 2G c IIB T4 Divorced</td>
<td>Std and Stainless Steel</td>
<td>long</td>
<td>35 mm (1 3/4&quot;)</td>
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<td>7 bar 150 l/m</td>
<td>1/4&quot; GAS</td>
<td>1/2&quot; GAS</td>
</tr>
<tr>
<td><strong>VEGA 5:1</strong></td>
<td>Divorced In-line</td>
<td>Std And Stainless Steel</td>
<td>long medium short</td>
<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
<td>10 l/min</td>
<td>Max. 8 bar</td>
<td>3 bar 198 l/m</td>
<td>5 bar 330 l/m</td>
<td>7 bar 462 l/m</td>
<td>1/8&quot; GAS</td>
<td>long - medium ball valve short M36X2</td>
</tr>
<tr>
<td><strong>VEGA 23:1</strong></td>
<td>Divorced Stainless Steel</td>
<td>long</td>
<td></td>
<td>76 mm (3&quot;)</td>
<td>76 mm (3&quot;)</td>
<td></td>
<td>Max. 8 bar</td>
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<tr>
<td><strong>GHIIBLI 3:1</strong></td>
<td>Divorced Stainless Steel</td>
<td>long medium short</td>
<td></td>
<td>108 mm (4 1/4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>45 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 500 l/m</td>
<td>5 bar 840 l/m</td>
<td>7 bar 1200 l/m</td>
<td>1/2&quot; GAS</td>
<td>1 1/2&quot; GAS</td>
</tr>
<tr>
<td><strong>GHIIBLI 10:1</strong></td>
<td>Divorced Stainless Steel</td>
<td>long medium short</td>
<td></td>
<td>108 mm (4 1/4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>12 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 500 l/m</td>
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<td>long - medium ball valve short M36X2</td>
</tr>
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<td><strong>GHIIBLI 30:1</strong></td>
<td>Divorced Stainless Steel</td>
<td>long medium short</td>
<td></td>
<td>108 mm (4 1/4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>4 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 500 l/m</td>
<td>5 bar 840 l/m</td>
<td>7 bar 1200 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1/4&quot; GAS (M)</td>
</tr>
<tr>
<td><strong>GHIIBLI 40:1</strong></td>
<td>Divorced Stainless Steel</td>
<td>long medium short</td>
<td></td>
<td>108 mm (4 1/4&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>3 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 500 l/m</td>
<td>5 bar 840 l/m</td>
<td>7 bar 1200 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1/4&quot; GAS (M)</td>
</tr>
<tr>
<td><strong>SIRIO 27:1</strong></td>
<td>Divorced Stainless Steel</td>
<td></td>
<td></td>
<td>230 mm (9&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>9.2 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 760 l/m</td>
<td>5 bar 1260 l/m</td>
<td>7 bar 1760 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
</tr>
<tr>
<td><strong>SIRIO 30:1</strong></td>
<td>Plunger Piston Divorced Stainless Steel</td>
<td></td>
<td></td>
<td>230 mm (9&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>7.5 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 760 l/m</td>
<td>5 bar 1260 l/m</td>
<td>7 bar 1760 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
</tr>
<tr>
<td><strong>SIRIO 32:1</strong></td>
<td>Divorced Stainless Steel</td>
<td></td>
<td></td>
<td>230 mm (9&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>8.2 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 760 l/m</td>
<td>5 bar 1260 l/m</td>
<td>7 bar 1760 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
</tr>
<tr>
<td><strong>SIRIO 45:1</strong></td>
<td>Plunger Piston Divorced Stainless Steel</td>
<td></td>
<td></td>
<td>230 mm (9&quot;)</td>
<td>102 mm (4&quot;)</td>
<td>5 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 760 l/m</td>
<td>5 bar 1260 l/m</td>
<td>7 bar 1760 l/m</td>
<td>1/4&quot; GAS (F)</td>
<td>1/4&quot; GAS (F)</td>
</tr>
</tbody>
</table>
### Atex II 2 G c IIB T4 Certified - Atex II 2 G c IIB T6 Certified

<table>
<thead>
<tr>
<th>MODEL</th>
<th>Version</th>
<th>Material</th>
<th>Ø motor</th>
<th>Piston stroke</th>
<th>Max. flow rate</th>
<th>Supply Pressure</th>
<th>Air consumption at 60 cycles/min</th>
<th>Air inlet</th>
<th>Material inlet</th>
<th>Material Outlet</th>
<th>Max/min cycles</th>
<th>C.C. cycle</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGA 5:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>66 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 1100 l/m</td>
<td>1 ½&quot; GAS</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS</td>
<td>60</td>
<td>1100</td>
</tr>
<tr>
<td>OMEGA 10:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>178 mm (7&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>32 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 1100 l/m</td>
<td>1 ½&quot; GAS</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS</td>
<td>60</td>
<td>530</td>
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<tr>
<td>OMEGA 15:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>178 mm (7&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>23 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 1100 l/m</td>
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<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS</td>
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<tr>
<td>OMEGA 23:1</td>
<td>Divorced</td>
<td>Std and Stainless Steel</td>
<td>178 mm (7&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>14 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 1100 l/m</td>
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<td>1 ½&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
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<td>230</td>
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<tr>
<td>OMEGA 30:1</td>
<td>Divorced</td>
<td>Std and Stainless Steel</td>
<td>178 mm (7&quot;)</td>
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<td>1&quot; GAS (F)</td>
<td>60</td>
<td>200</td>
</tr>
<tr>
<td>NOVA 10:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>66 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 2200 l/m</td>
<td>1 ½&quot; GAS</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS</td>
<td>60</td>
<td>1100</td>
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<tr>
<td>NOVA 20:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>32 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 2200 l/m</td>
<td>1 ½&quot; GAS</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS</td>
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<td>530</td>
</tr>
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<td>NOVA 45:1</td>
<td>Divorced</td>
<td>Std and Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>14 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 2200 l/m</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
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<td>NOVA 60:1</td>
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<td>Std and Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
<td>12 l/min</td>
<td>Max. 7 bar</td>
<td>3 bar 2200 l/m</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
<td>60</td>
<td>200</td>
</tr>
<tr>
<td>NOVA 68:1</td>
<td>Divorced</td>
<td>Stainless Steel</td>
<td>254 mm (10&quot;)</td>
<td>120 mm (4.75&quot;)</td>
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<td>Max. 7 bar</td>
<td>3 bar 2200 l/m</td>
<td>1 ½&quot; GAS (F)</td>
<td>1 ½&quot; GAS (F)</td>
<td>1&quot; GAS (F)</td>
<td>60</td>
<td>180</td>
</tr>
</tbody>
</table>

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

![Images of Ghibli, Sirio, Omega, Nova models]
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

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)

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.
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 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.