



## Applications

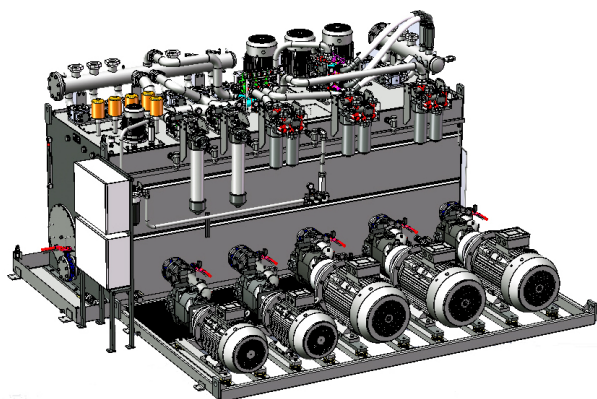
Design, construction, starting-up and maintenance of large and complex automatic foundry installations.

Flodraulic's installations are able to handle huge loads with high accelerations and decelerations, and to regulate labour force during moulding.

In particular, we produce:

- Casting systems
- Rolling mill systems
- Moulding line systems
- Installations for core shooter machines
- Drum and pan mill control systems
- Installations for core shooter machines

## Services



- Manifold, HPU (Hydraulic Power Unit) and Integrated System full engineering
- Fluid dynamics simulation
- Structural calculation
- Deep analysis and check of every single system parameter with specific and official report release
- Final operational test of the whole system
- World Wide commissioning with high level expertise technicians
- Rigid and flexible piping and on-site full assistance
- 40 years-experience in the hydraulic field and a very passionate team of engineers and technicians who work every day close to our customers

## Key Components



- Safety Integrated Valves
- Closed and open circuit pumps
- High flow cartridge valves
- Oil condition monitoring system



Thanks to **o-guardian**, Flodraulic's diagnostic system, our installations are remotely connected and the operator can get **real time information**, prevent issues, analyze usage, monitor **health status** and maintenance needs with detailed and **personalized reports**.

## Expertise

<b>Power:</b>	up to 450 kW [600 hp]
<b>Flow rate:</b>	up to 2700 l/min [710 gpm]
<b>Pressure:</b>	up to 420 bar [6000 psi]
<b>Certifications:</b>	according to: CE, SIL, PED requirements
<b>Process Control:</b>	WPS, PQR, NDT, mechanical stress and wearing tests
<b>Painting:</b>	up to C5M cycle, based on customer specifications
<b>Surface treatments:</b>	phosphating, electrolytic protections, nitrocarburizing, stainless steel surface finishing
<b>Engineering international standards:</b>	UNI EN ISO 16228, UNI EN ISO 13849, IEC61508, IEC61511, ASME, EU Directives rules and specifications