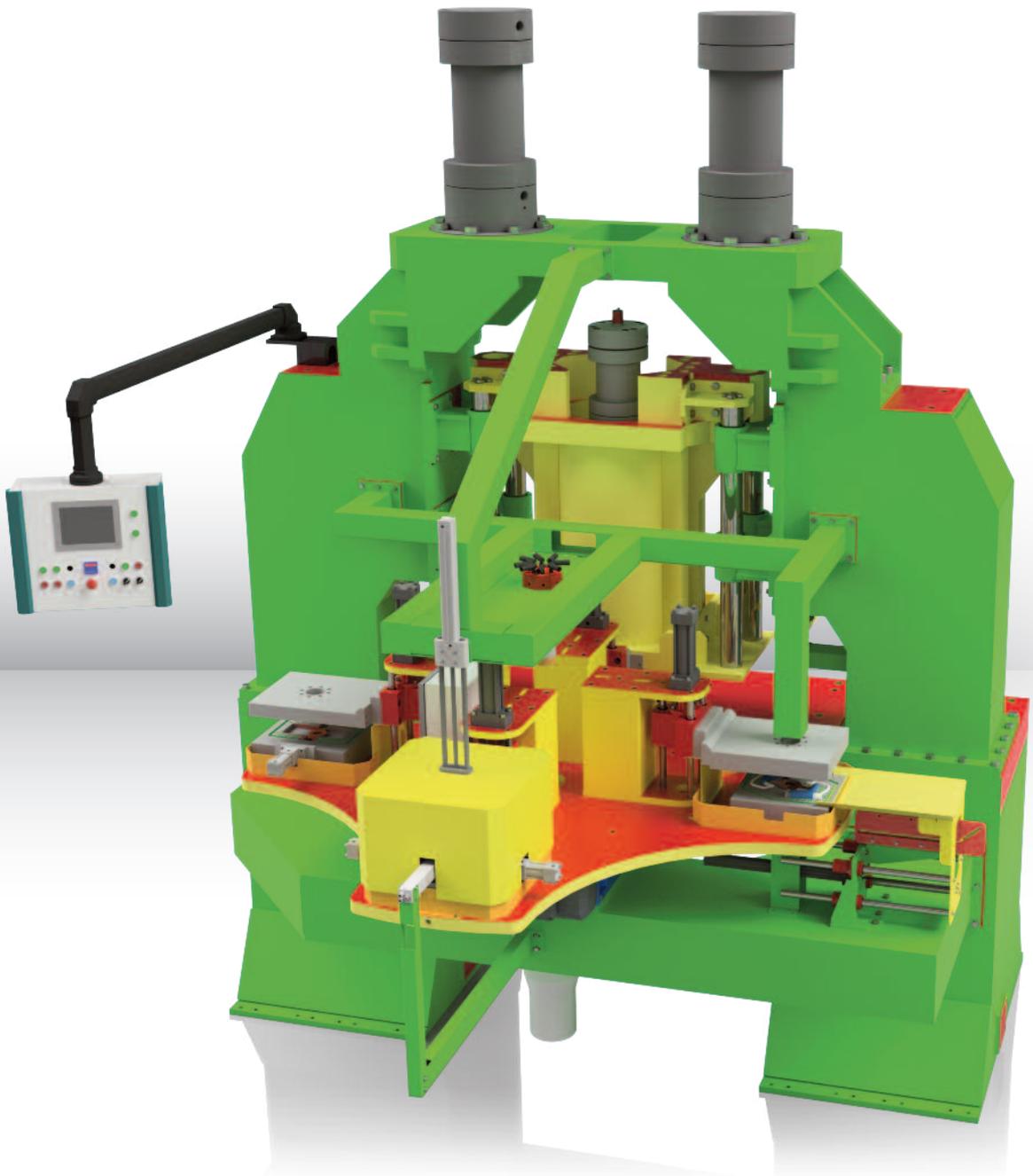


INNOVATIVE PROCESS

Liquid Forging Casting Machine

with 4 Stations and Turning Table



LLPF Machine _ Patent Pending

The machine process ensures the moulding of castings with increased metallurgical quality, important reduction of porosity, high mechanical features and a degree of surface roughness that reduce the required finishing time. This innovative process is the ONLY allowing to cast an Aluminium Alloy that achieve enough mechanical properties to ensure the Thermal or Decorative Anodization, to resist Corrosion and to be suitable for Potable Water uses.

The machine is so suitable for production of Taps, Handles and other parts in plastic forged Brass, plastic forged Aluminium furthermore, using a special alloy of Aluminium the parts can be coated with decorative chrome or treat with anodization.

MAIN BENEFITS

- Better quality and higher mechanical properties
- Higher productivity & increased metallurgical qualities
- Use of the aluminium alloys reduces the raw material cost by around 70% comparing to brass
- Possibility to produce parts with cores
- Low production costs
(reduced approx. 50% compared to traditional processes)
- The lifetime of a copper beryllium mould is ten times longer compared to the same used for gravity casting or low pressure machines
- Cheaper finishing costs
- Production cycle time: 25 sec.
- New & Revolutionary pouring system
- High resistance to sea water (aquamarine)
- Thermic resistance up to 200°C
- Production cost reduced approx. 50% compared to traditional processes

DESIGN FEATURES

The machine is provided with a turning table in order to improve the productivity and reduce the cycle time.

STATION 1 = Feeding of molten metal, forging & solidifying, cooling of forging cylinders

STATION 2 = Casting ejection from moulds

STATION 3 = Cooling & Lubrication on the moulds

STATION 4 = Cores settling (in case it's required)

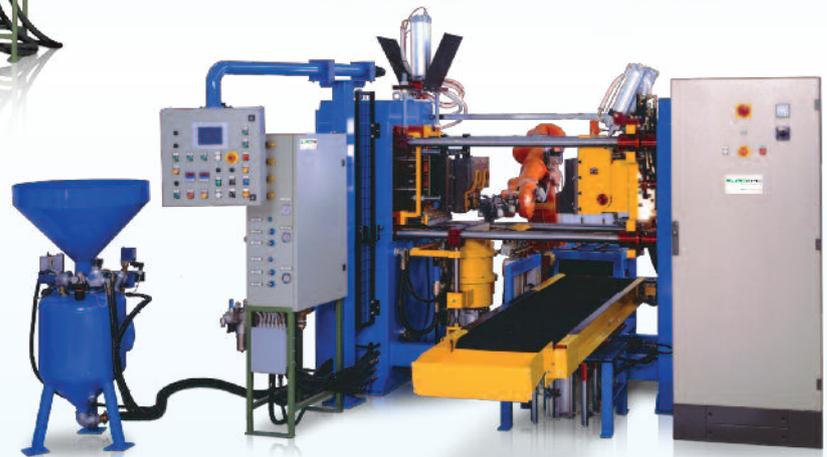
All 4 Stations work concurrently in order to hide the production timing during the required operations carried out by Operators.

OUR NEW TECHNOLOGY IS INDICATED FOR:

- Automotive and Motorcycle Sectors
- Handles and Taps
- Mechanical Components

CORE MAKING MACHINES & ROBOT PRODUCTION CELLS

(cold box, shell, hot box & inorganic processes)



DECORE MACHINE



EUROMAC has served the foundry industry for more than 55 years.

Our specialist is the manufacture of Core Making and associated Sand plant, Green Sand Moulding lines, Metal handling and treatment equipment. In the factory in Italy, Euromac looks after to all the production phases from engineering to final commissioning.

EUROMAC's philosophy is to pay special attention to details and the individual needs of our Customers so this behaviour guided us in developing a new machinery that bring us into the world of Non-Ferrous alloys Castings. The new machine developed called LLPF is designed for an innovative process that allow the moulding of castings with increased metallurgical quality, important reduction of porosity and able to achieve enough mechanical properties to ensure the Thermal or Decorative Anodization, to resist Corrosion and to be suitable for Potable Water uses.

» **Manufacturing program**

- Core making machines and robot production cells (cold box, shell process, croning, hot box; silicate and inorganic processes)
- Automatic green sand moulding lines
- Core sand preparation, mixing and distribution plant
- Hydraulic moulding machines
- Sand preparation plants and machines
- Shell moulding machines, automatic closing and gluing systems
- Gas generators for Isocure (Amine), CO₂, SO₂ and Betaset
- Amine Scrubber towers
- Decore machines
- Pouring, Treatment and automatic metal transfer plant
- Metal treatment plant for ferro-alloys automatic dosing and for core wired inoculation
- Preparation and feeding plant for furnace's charges

» **Fertigungsprogramm**

- Kern – Fertigungsmaschinen und Roboter Zellen (für Maskenformverfahren, Coldbox, Hotbox, anorganisch)
- Automatische Formanlagen
- Hydraulische Formmaschinen
- Kernsandaufbereitung, Mischer und Verteilungsanlagen
- Begasungsgeräte und Aminwäscher – Türme
- Schalen – Formmaschinen, Schliess – und Klebeanlagen
- Impf-Anlagen für GGG mittels Draht
- Entkern – Maschinen
- Vergiess – Anlagen - manuell und automatisch - und Zubehör
- Transport von Flüssigseisen
- Legierungs- Impfanlagen

» **Programa de produção**

- Sopradoras de machos e moldes para os processos: cold-box, hot-Box, shell moulding, CO₂, SO₂ croning, Inorgânico e silicato
- Instalações automáticas e semiautomáticas de moldagem em areia verde
- Máquinas sopradoras shell casca
- Instalações de preparação de areia para macharia
- Dispositivos de gaseificação para todos processos
- Máquinas hidráulicas de moldagem com cabeçote múltiplo micro pistões
- Instalações de preparação de areia verde
- Destorreadores automáticos para machos
- Sistemas de moldagem para areia resina (cura a frio), Misturadores, Recuperadores de areia térmico e mecânico
- Sistemas de estufa de cura e secagem. Equipamentos de pintura a pó, líquida, KTL, E-COAT.
- Estações de tratamento para nodularização com arame tubular
- Instalações de dosagem e preparação automatizada de ferroligas
- Equipamentos de transporte, transferência, tratamento e vazamento de metais
- Sistemas de preparação de carga e alimentação de fornos a indução e cubilô



EXAMPLE OF PARTS TO BE PRODUCED WITH LLPF MACHINE



Euromac América Latina

Rodovia SC 108 – Nr. 8355, Km 19,7
Bairro Serenata. CEP 89270-000
Guaramirim (SC) - Brasil
Tel. +55 (47) 4101-1800 / 4101-2001
Cel. +55 (47) 99139-8113 / 99715-3700
diretoria@euromacamericalatina.com



EUROMAC srl

Via dell'Industria, 62
36035 Marano Vicentino (VI) - Italy
Tel. +(39) 0445 637629 / 0445 637254
Fax +(39) 0445 639057
info@euromac-srl.it



MEMBER OF AMAFOND

www.euromac-srl.it