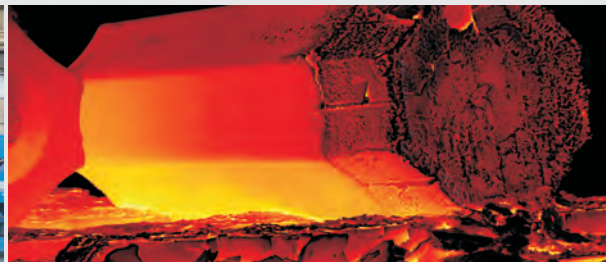


Forging & Casting



LOOK BEYOND

GROUP
LUCCHINIRS



LUCCHINI NA

LUCCHINI RS

LUCCHINI
TOOL STEEL
LUCCHINI
MAMEFORCE

LUR

LBX

LUCCHINI SE

LUCCHINI PL

LUCCHINI IE

Lucchini RS Group is a leader in the design and production of high quality rolling stock products, castings and forgings for all industrial sectors. The strength of the Group lies in its integrated production facilities, from the steel making to the finished products, in the skill of its human resources, in its know-how and organization, wholly focused on production and assembly of every kind of forging and casting products for all customers and markets.



LUCCHINI SA



Lucchini RS is one of the main European manufacturers which integrated in two sites, Lucchini RS and Lucchini Mamé Forge, all facilities from research and development of materials, to steel production and finished products.

Forging and casting plants:

LUCCHINI^{RS} Lovere - Italy

Melting Shop

Foundry

Forging Shop

Machining Dept.



LUCCHINI^{MAMÉFORGE} Civate Camuno - Italy

Forging Shop

Machining Dept.

Lucchini Mamé Forge operates worldwide in the Steel Forgings Business and it has been created from the acquisition in 2015 of Mamé Group Spa by Lucchini RS Spa.

STRENGTHS

Lucchini RS Group stands out for:

- **Worldwide presence** in highly technological sectors: Oil & Gas, Power Generation, High Tech Engineering, Shipbuilding, Cement Works and Tool Steels
- **Fully integrated production** of high quality forgings and castings (short lead time, streamlined processes and reliability)
- **"Tailor-made" solutions** such as customised steel grades, co-engineering and Logistic Service
- **Cladding** and **Surface treatment**
- **Mechanical** and **Welding assembly**

The Company's priority is to offer customers a truly complete service.

LOOK BEYOND





LOOK BEYOND



DESIGN
METALLURGY
R&D &
TESTING



LRS

HEAVY
MACHINING
& FINISHING



LRS



LMA

FACILITIES
CERTIFICATIONS
TESTING

GROUP
LUCCHINIRS

MAIN GLOBAL REFERENCE STANDARDS

ISO 9001

ISO|IEC 17025

ISO 14001

OHSAS 18001

ISO 50001

ASME III

ISO 3834-2

NORSOK M122

ISO 9712

NORSOK M123

LOOK BEYOND

CERTIFIED BY

DNV-GL

RINA

BUREAU VERITAS

TÜV

IIES CERT

ACHILLES

LLOYD'S REGISTER

FPAL

ABS

CLASSNK

ASME III

**FACILITIES
CERTIFICATIONS
TESTING**

LUCCHINI GROUP *RS*

TESTING & INSPECTION

- Laboratory ISO / IEC 17025:2005
- Hardness Tests 3000-kg Fixed King Brinell
- UT Automatic Plant
- Heat Stability Tests
- Non-Destructive Tests
- Dye Penetrant Liquids
- Testing Bench for Simultaneous Magnetic Tests



All materials are tested and certified in accordance with international standards and customer's specifications, using any combination of the following methods: UT-RT-HT-PT-MT-VT-DT.

LOOK BEYOND

Furthermore Lucchini RS Group has an internal European Metallurgical Inspection Centre (EMIC) dedicated to in-service non-destructive tests.

EMIC proposes different services such as:

- Customer support for testing of new and in-service products, applying customised standards or instructions
- Technical instructions for NDT tests on new and existing products
- In-service overhaul of components used for the production of thermal, hydroelectric and wind power plants and equipments such as moulds for plastic and die casting.

PRODUCT PORTFOLIO

- Carbon, Alloyed, Stainless Steel Grades

STEEL MELTING SHOP

- A 60 t Electric Arc Furnace (EAF) Power 40 MVA
- A Ladle Furnace (LF) Plant
- A Tank Degassing VD - VOD type
- Pits for bottom pouring
- ESR Plant (Max Weight 32 t)
- Liquid Steel for castings up to 240 t
- Round & Polygonal Ingots, Weight from 3 t up to 85 t



LOOK BEYOND



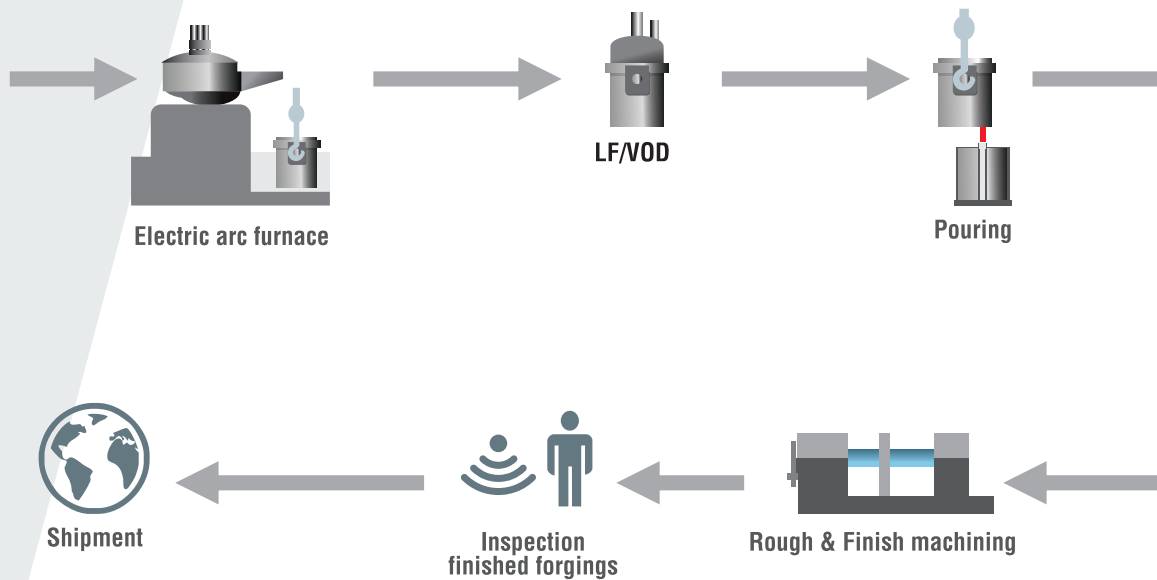
METALLURGICAL LABORATORIES

- Testing laboratories certified according to UNI CEI EN ISO/IEC 17025 and ACCREDIA
- Failure analysis and critical metallurgical investigations

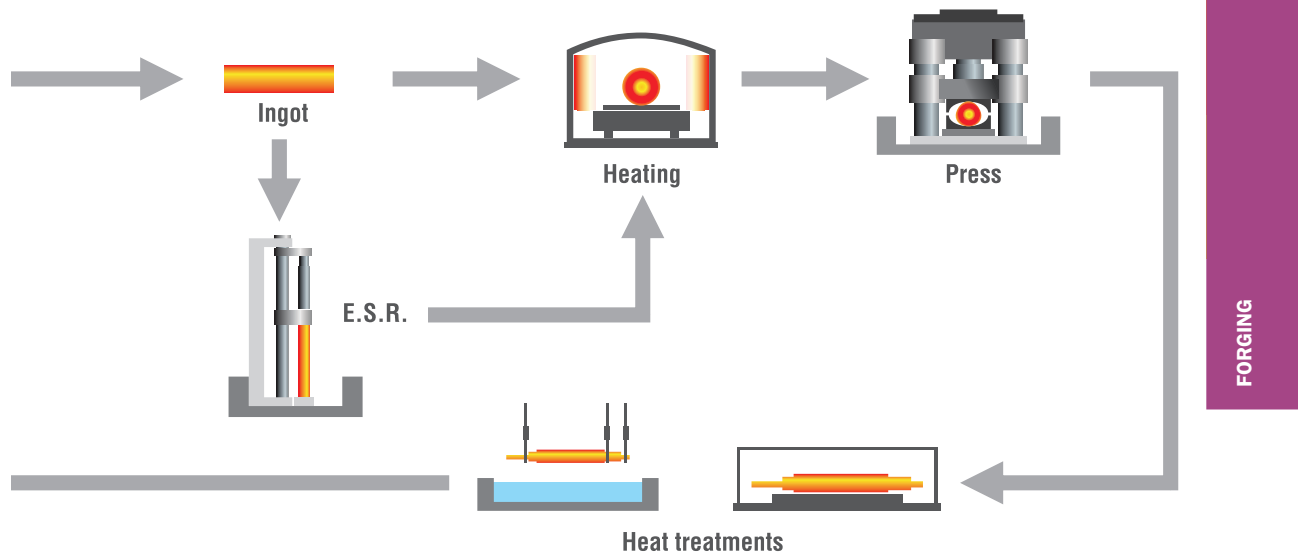
METALLURGICAL R&D

Metallurgical Research and Development supports customers on material choice to reduce Total Life Cycle costs and analyze long-term environmental impacts.

FORGING PRODUCTION PROCESS



LOOK BEYOND



FORGING FACILITIES

Products

- Open Die Forgings & Tool Steels bars
- Finished Products up to 35 t
- Ingots with max weight 60 t
- Max length of 18 m

Forging Process

- 3200/4200/6000 t Open die presses
- Manipulators, Lifting Capacity up to 60 t/m
- Heating Forging Furnaces, Max Capacity 150 t
- Furnaces for Hydrogen Bake-Out Up to 14 m



LOOK BEYOND

Heat Treatment

- Semi-automatic Heat Treatment System
- Quality Heat Treatment Furnaces
- Max lenght 18 m
- Quenching tanks Up to 16 m

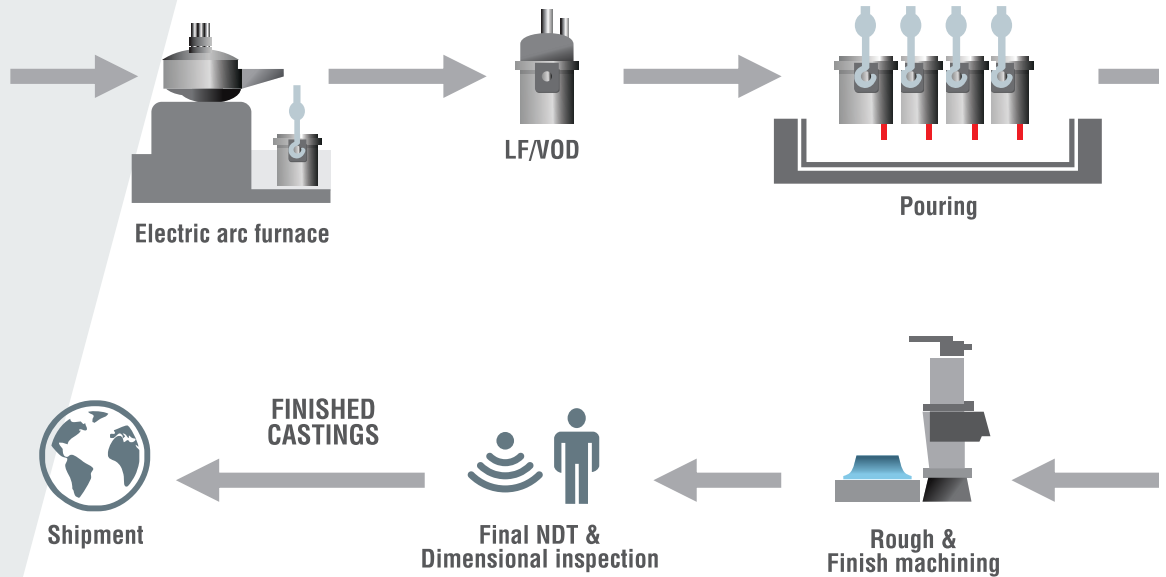


Machining

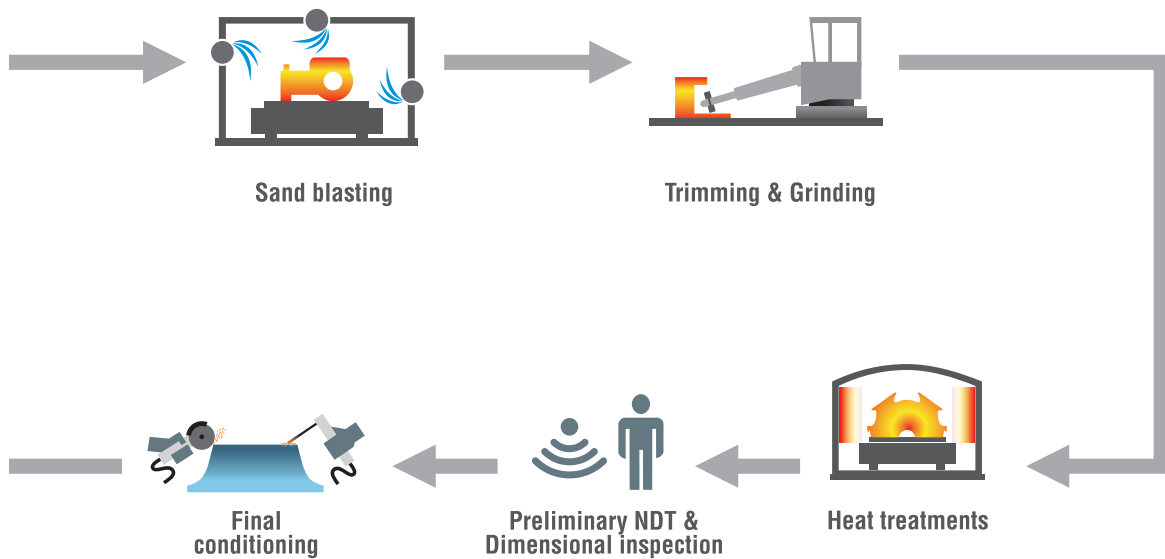
- Rough & Finishing Machining
- Vertical Lathes
- Parallel Lathes
- Extra Large Parallel Lathes
- Boring Machines with Numerical Control
- Milling, Planning Machine
- Column Drill

Cladding & Surface Treatment

CASTING PRODUCTION PROCESS



LOOK BEYOND



CASTING FACILITIES

Products

- Weights from 2 t to 140 t
- Advanced software for best control of melting, casting and cooling processes
- Robotized cold trimming equipment, shot and sand blasting machines for surface conditioning

Engineering & Casting Process

- Electric Arc Furnace (EAF)
- Castings up to 140 t shipped weight
- Simultaneous pouring of four sixty-ton ladles of steel, moulding pit up to 12x6x4,2 m
- Sandblasting
- Trimming



LOOK BEYOND

Heat Treatment

- Semi-automatic Heat Treatment System, transfer time 30 seconds
- Quality Heat Treatment Furnaces
- Max length 11 m
- Quenching tanks up to 6,5x8x6,5 m



Machining

- Rough & Finishing Machining
- OD Max 6 m
- Max weight 140 t
- Max length 11 m

Mechanical & Welding Assembly

MARKET SEGMENT



**OIL & GAS
PETROCHEMICALS**



**POWER
GENERATION**



**HIGH TECH
ENGINEERING**

LOOK BEYOND



**SHIPBUILDING
& CEMENT WORKS**



TOOL STEELS

GROUP
LUCCHINI *RS*

L **LUCCHINI**
MAMEFORGE

**PRODUCTS
MARKETS**

OIL & GAS | PETROCHEMICALS | **FORGINGS**

Blow Out Preventer

Body Valve

Bonnet

Christmas Tree Component

Clamp

Cylinder Head

Flange

Fluid-Ends

Jack-Up System Pinion

Lifting Hook

Lower-Upper Body

Master Valve Block

Pile Driver Anvil

Pile Driver Raw Weight

Ram

Risers-Stress Joint

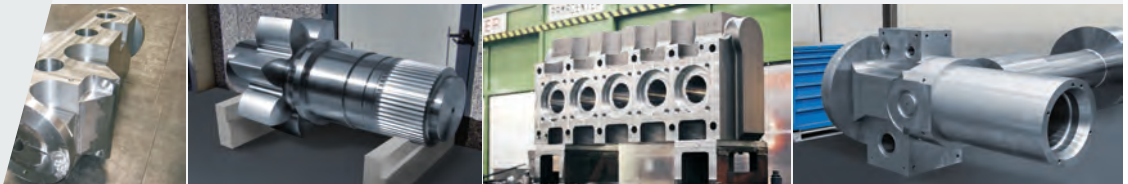
Rotary Swivel Connector

Shear & Pipe

Spool Body

Stabilizer

Wellhead



LOOK BEYOND

OIL & GAS | PETROCHEMICALS | CASTINGS

Ball Valve Body

Body

Bottom Receptacle

Connection Shroud

Covers

Expanding Gate Valve

Gate Valve Body

Hyperbaric Chamber Assembly

(bottom / bonnet / body)

Lifting Hook Assemblies

Lift Point

Lift Trunnion

(double slings or double grommets)

Mooring Padeye

(castings and assembly)

Offshore Assemblies

Pile Driver Anvil

Sheave

Shutters

Stab-In Cone

(castings and assembly)

Tendon Porch

Transition Node

X-Brace



GROUP
LUCCHINIRS

PRODUCTS
MARKETS

POWER GENERATION | **FORGINGS**

Cross Head Runner

Gas Turbine Discs

Generator Shafts

Hydraulic Turbine Rotors Lever

Pelton Turbine and Wheels

Piston Runner

Rotor Shaft and Jack Shaft

Trunion Runner

Turbine Shafts



LOOK BEYOND

POWER GENERATION | CASTINGS



Compressor Blade Carrier	Outer Casing
Distributor	Outer Diffusor
Exhaust Casing	Outer Shell
Francis Runner	Pump Body
Gas Turbine Casing	Pump Rotor
Hub	Radiation Liner
Kaplan Hub	Rotary Body and Conveyor
Inner Casing	Valve Casing
Nuclear Pump Body	

HIGH TECH ENGINEERING | **FORGINGS**

Cylinders

Column

Connecting Rod

Cover

Expander

Extension

Flange

Heat Exchanger Plate

High Pressure Head

Yokes

Y-Tee Block

Nozzle

Pinion

Pipe

Reactor Pressure Vessel

Ring

Shell / Tube Sheet

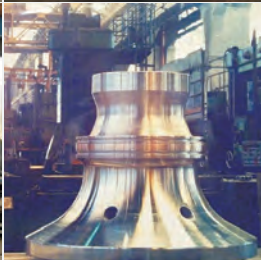
Tie Rod Tube

Work Roll (Hot/Cold Rolling)



LOOK BEYOND

HIGH TECH ENGINEERING | CASTINGS



Chocks

Crosshead

Die Forgings Ram

Frame For Die Forging Machine

Ladle

Mill Housing

Mould Base

Press Plate

Press Reaction Plate

Support Plate

SHIPBUILDING | CEMENT WORKS | **FORGINGS**

Cylinder

Crank Shaft

Disc

Gear

Joist Plate

Kiln Support Roller Shaft Assemblies

Inner Head Nut

Pinion

Piston

Propeller Shaft

Rudder Shaft

Shaft / Column

Thrust Roller

Toothed Wheel

Transmission Marine Product

Valve



LOOK BEYOND

SHIPBUILDING | CEMENT WORKS | CASTINGS

Mill Head, Kiln Tyre and Roller

Pintle Conical Coupling

Propeller Arm

Propeller Boss

Rudder Support

Stern Post



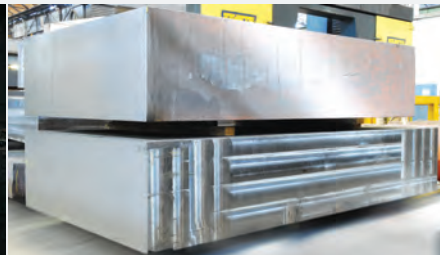
GROUP
LUCCHINIRS

PRODUCTS
MARKETS

TOOL STEELS

MARKETS

Automotive
Electronics
Food and Packaging
Home Appliances
Lenses and Optics
Medical
White Goods



LOOK BEYOND

MOULD & TOOL BRANDED STEEL GRADES



**PLASTIC
MOULDING**

INJECTION
COMPRESSION
THERMOFORMING
EXTRUSION

**FORGED
FRAMES
BOLSTERS**

LIGHT ALLOYS
DIE-CASTING
DIES



**FRAMES
BOLSTERS
IN CAST
CONDITION**

LIGHT ALLOYS
DIE CASTING
DIES



HOT WORK

CLOSE DIE
DROP FORGING
ALUMINIUM
EXTRUSION

PLASTIC

MOULDING



**ELECTRO
SLAG
REMELTED
STEEL
GRADES**

LIGHT ALLOYS
DIE CASTING
DIES

PLASTIC

MOULDING


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◦ **LUCCHINI** PL


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ZHIBO LUCCHINI J.V.

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