

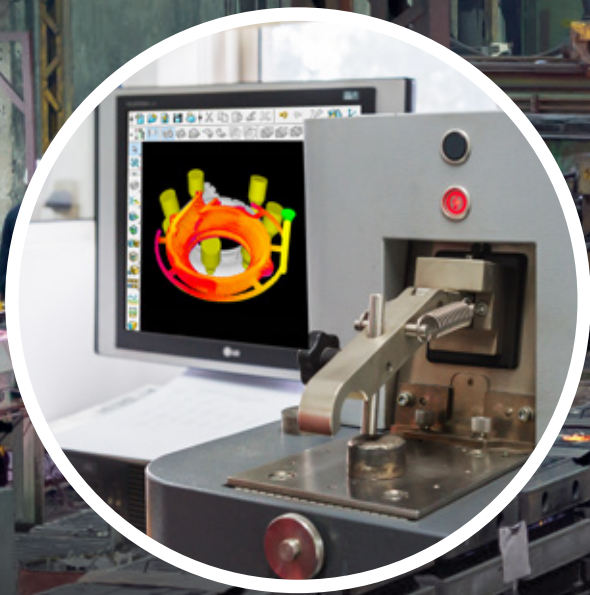
# CASTINGS FOR EXTREME WEAR

[www.cmw.pt](http://www.cmw.pt)



**CMW FOUNDRIES**

# QUALITY AND KNOW-HOW TO DELIVER COMPLETE SOLUTIONS



CMW Foundries is a Portuguese foundry group founded in 1981.

We are specialists in wear resistant technical castings, and we produce sand castings in high alloyed cast iron, steel, stainless steel and nickel based alloys.

We operate three foundries in Portugal, two close to Oporto and one near Lisbon.

With installed capacity to produce **15.000 tons of castings per year**, we can manufacture and deliver finished castings in a wide variety of alloys, for weights up to **10 Tons**.

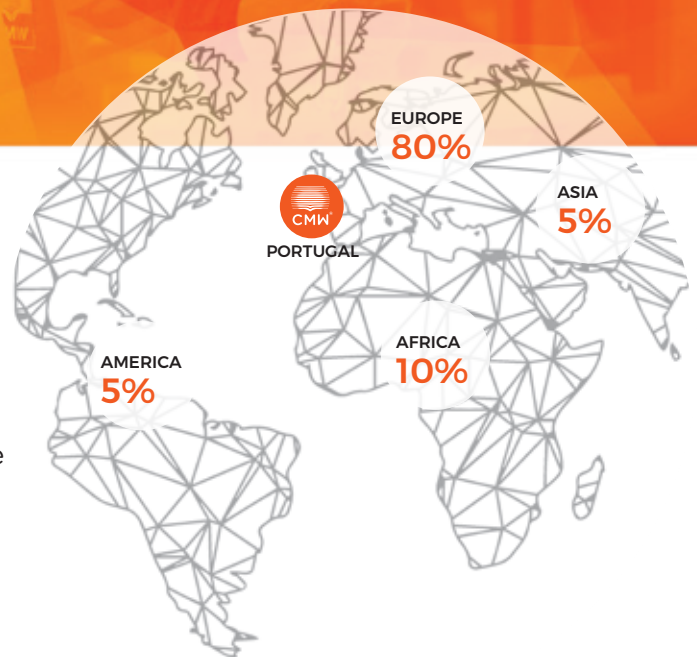
We keep **engineering, pattern making, production, quality control and machining under one roof**, to create an efficient process and short communication lines, which reflects our full commitment to ensure **high quality products and on-time deliveries**.

CMW FOUNDRIES

# COMMITMENT WITH THE CUSTOMER

We are focused on long term **customer satisfaction** through **competitive prices, high quality of castings, on time deliveries and efficient service.**

Our core business is supporting customers with technical assistance in order to develop and produce wear **solutions in materials resistant to abrasion, impact, corrosion, and temperature**, to increase **lifetime of components and achieve cost savings.**



## EXPORT COUNTRIES

GERMANY · SPAIN · FRANCE · NETHERLANDS · ITALY · SWITZERLAND · AUSTRIA · IRELAND  
UNITED KINGDOM · FINLAND · SWEDEN · ROMANIA · CANADA · USA · VENEZUELA  
JAPAN · ISRAEL · MOROCCO · TUNISIA · EGYPT · MOZAMBIQUE · ANGOLA · SOUTH AFRICA

## MARKETS

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DREDGING AND MINING

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MARITIME AND SHIPBUILDING

---

OFF-SHORE

---

PUMPS AND VALVES

---

PETROCHEMICAL

---

INCINERATION

---

CEMENT

---

CONSTRUCTION EQUIPMENT

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OTHERS

## MATERIALS

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HIGH CHROME CAST IRON

---

HEAT RESISTANT STEEL

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CARBON/LOW ALLOY STEEL

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STAINLESS STEEL

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DUPLEX/SUPER DUPLEX

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INCONEL

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OTHERS



## PRODUCTION FLEXIBILITY

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CASTING WEIGHT UP TO 10 TONS

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LOT SIZES FROM SINGLE CASTING TO  
LARGE SERIES

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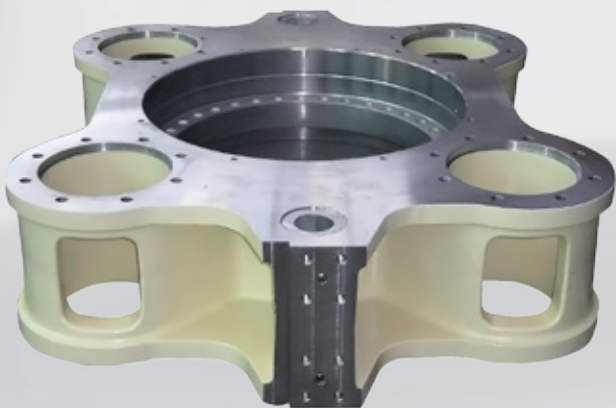
WIDE RANGE OF ALLOYS

## PROJECT

CAD tools and simulation software Solidcast/  
Flowcast

Rapid Prototyping

Reverse Engineering with Faro Edge portable  
measuring machine.



## PATTERN SHOP

Manufacturing of moulding equipments  
Pattern making based on technical  
drawings, 3D CAD models or prototypes  
Materials: Wood, epoxy and foam

## MOULDING LINES

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1 x automatic - 700 x 600 x 500 mm  
90 molds/hr - green sand

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1 x pat. flow no bake - 1300 x 1250 x 850 mm  
12 molds/hr - phenolic resin sand

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1 x pattern flow - 3000 x 2000 x 1000 mm  
7 molds/hr - phenolic resin sand

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1 x pattern flow - 4000 x 2000 x 2000 mm  
7 molds/hr - phenolic resin sand

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1 x hand moulding - 2500 x 2000 mm  
phenolic resin sand

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1 x hand moulding - No size restriction  
phenolic resin sand

## CORE SHOP

Automatic and manual processes

## MELTING

Induction melting furnaces, ranging from  
750 kg to 6 Tons

Electric arc furnaces of 6 Tons



## HEAT TREATMENT

Heat treatment with different quenching media (Water, polymer mix and fan coolers)  
Capacity from 5 Tons up to 20 Tons

## FINISHING OPERATIONS

Shot blasting (steel and stainless steel shot), fettling shop

Machining, conventional and CNC

## LABORATORY

Spectro optical emission spectrometers  
Niton portable spectrometer for PMI  
Metallographic testing equipment with Leica image analysis software  
Universal testing machine for tensile/compression 60 Tons  
Impact test machine 300 J  
Universal hardness tester HRC, HB, HV

## FINAL QUALITY CONTROL

Portable durometers Equotip  
Ferritoscope Fischer  
Faro Edge portable measuring machine

## NON DESTRUCTIVE TESTS

Ultrasound tester Karl Deutsch  
Magnetic tester Magnaflux  
Penetrant liquid test  
Procedures and level II qualified operators according to EN ISO 9712:2012 and ASNT SNT-TC-1A

## QUALITY ASSURANCE

WELDING ENGINEERS

ISO 9001:2008

PED 2014/68/EU ANNEX I - POINT 4.3

ABS - FACILITIES AND ASSOCIATED QUALITY PROCEDURES APPROVAL FOR MARINE APPLICATIONS CASTINGS

DNV GL - APPROVED MANUFACTURER ACCORDING DNV GL RULES FOR CLASSIFICATION - SHIPS

CMW complies with the requirements of environmental legislation and approved codes of practice.





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