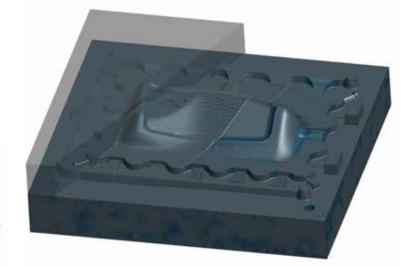


# INNOVATIVE CASTING SOLUTIONS



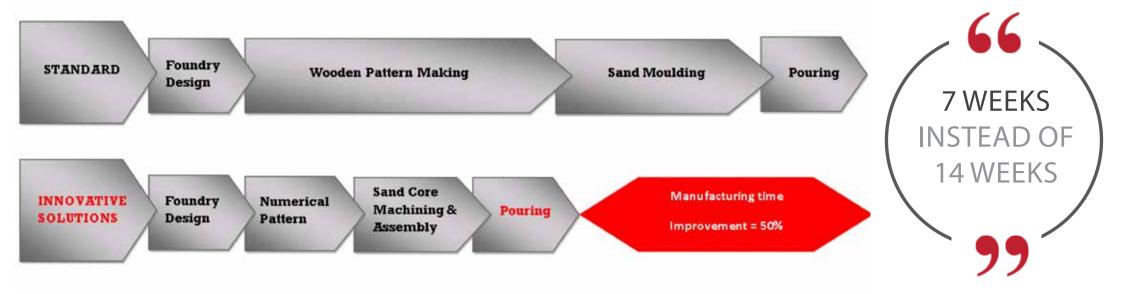




# CUSTOMER CHALLENGES

Our customers need to find a way to reduce cost when asking for prototyping, or unitary manufacturing of cast components. In many cases, pattern costs could represent half the price of the cast part.

# LEAD TIME COMPARISON

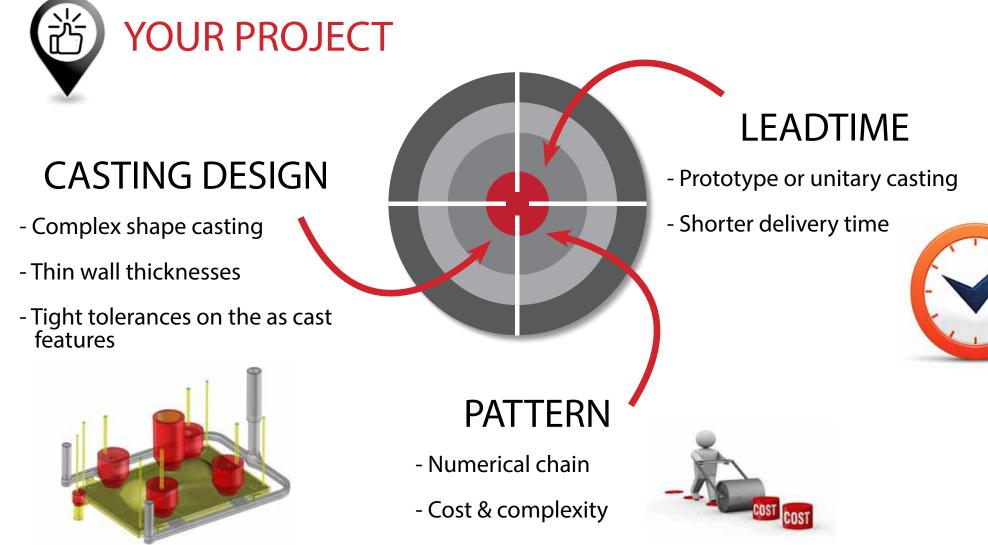


+ No need to wait for long time delivery for patterns.

+ Perfect manufaturing process for quick delivery of pre-production or proof of concept.

## YOUR PROJECT

REASONS FOR USING INNOVATIVE CASTING SOLUTIONS



- No pattern storage



## MEANS

# RAPID INNOVATIVE CASTING SOLUTION MEANS

#### FASTFORM®

Rapid prototyping on sand mold (patternless process)

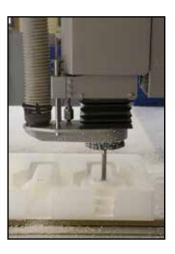


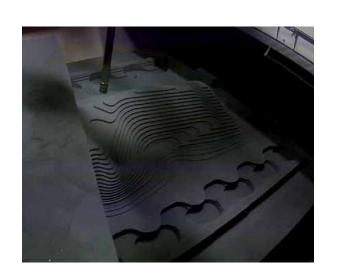
- + Sand Milling on 5 axis machine
- + Machined sand cores are re-positionned with very high accuracy
- + Complex shapes are produced with almost no limit in size
  - (10 tons sand cores, several cores possible)

## STRATO CONCEPT

- Rapid prototyping on polystyrene pattern
- (Valid for 1 mould, up to 4 moulds)
- No limit in size as pieces are assembled together



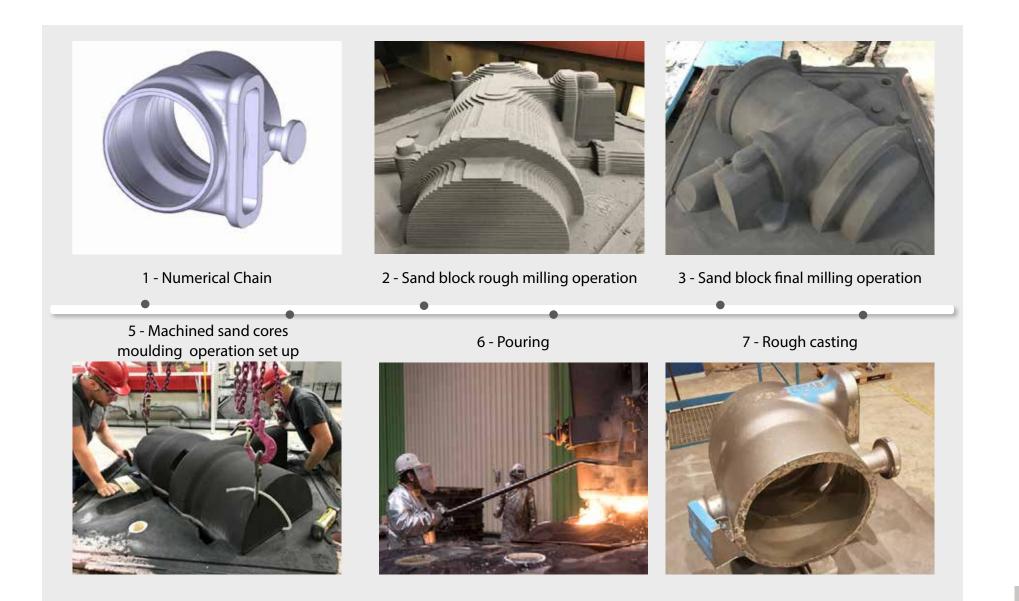




MEANS

#### PROCESS

# MANUFACTURING PROCESS





### REFERENCES

#### FIRST CLASS FOUNDRY

# EXAMPLES OF PARTS



#### REFERENCES

#### FIRST CLASS FOUNDRY

## ENGINEERING

Technical study & advice CAD, CAM & FE analysis softwares

Design & Conception Transformation from fabricated to as cast Foundry shapes optimization

> Research & Development Prototyping Material patented 250kg R&D dedicated furnace



1<sup>st</sup> class Foundry

## PRODUCTION

All cast irons & Cast steel Grades Grey & Ductile Irons / Super & Super Duplex steel

> Heat Treatment Up to 15x5x4m // 1150°C

Welding MIG, TIG, Arc & Automatic welding

Fettling Machanical & fully automized grinding

### INSPECTION & ANALYSIS

Inspection capabilities All NDT, MG, US, X-Ray

Fully equipped internal lab Spectrometer, Microscope, Creep testing machine

ISO Certifications 9001, 14001, 18001 & 50001





#### A Groupe CIF Company





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