

We **A** [AUTOMATION] **R** [RESEARCH] **E** [ENVIRONMENT] Sanitaryware

**Dpd**



**Digital  
product  
development**


*New modelling frontiers*



# Resin mould by **CASTING**

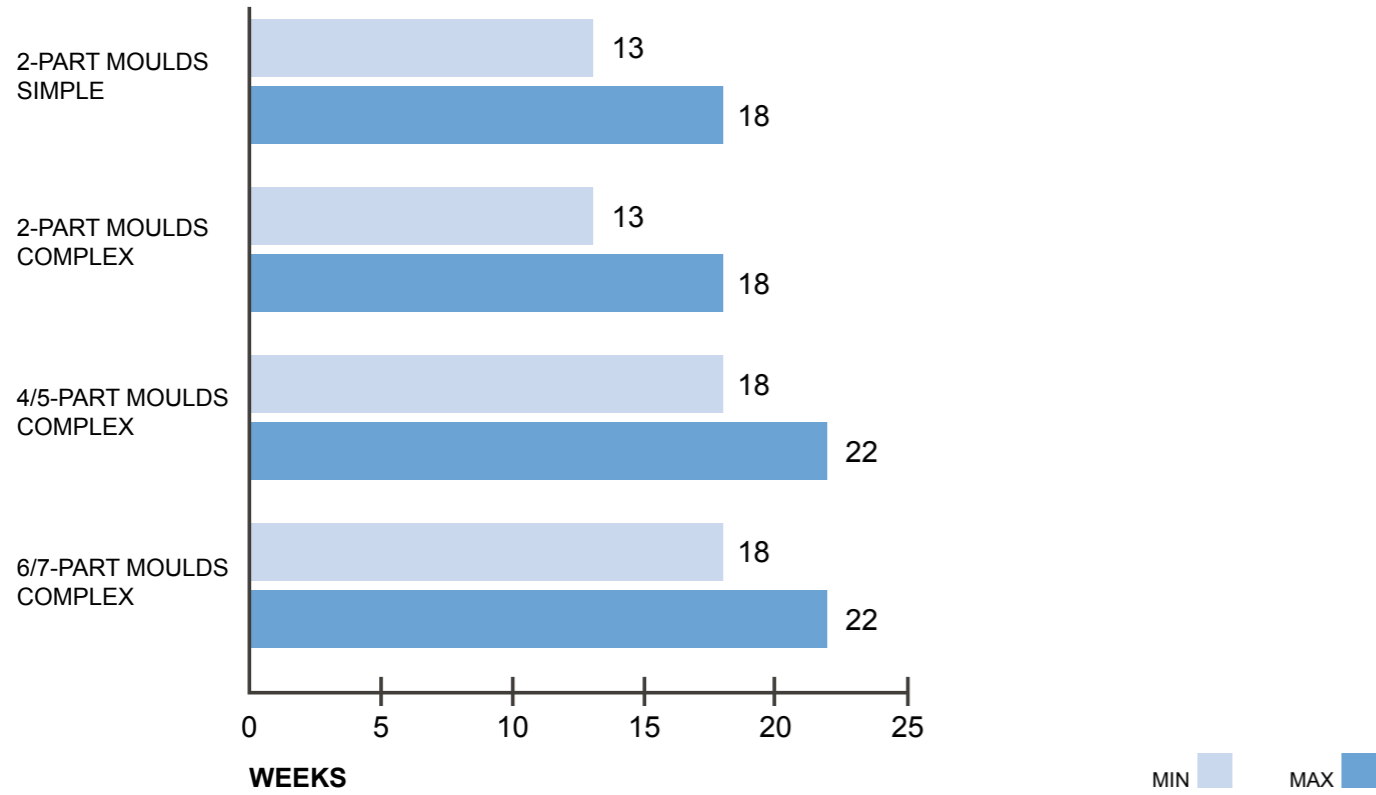
- 1 DESIGN STUDIO
- 2 CAD MODELLING
- 3 PLASTER MOULD CAM TOOLING
- 4 CASE PRODUCTION
- 5 MOULD PRODUCTION BY CASTING
- 6 SACMI PILOT PLANT TESTS
- 7 CUSTOMER FIRED PIECE ACCEPTANCE
- 8 MOULD INDUSTRIALIZATION  
AT CUSTOMER'S PLANT
- 9 MOULD COMMISSIONING
- 10 CASE MODIFICATION IN SACMI
- 11 ADDITIONAL RESIN MOULD PRODUCTION  
BY CASTING

# Resin mould by **TOOLING**

- 1 DESIGN STUDIO
  - 2 CAD MODELLING
  - 3 MOULD PRODUCTION BY RESIN BLOCK TOOLING
- 
- 4 SACMI PILOT PLANT TESTS
  - 5 CUSTOMER FIRED PIECE ACCEPTANCE
  - 6 MOULD INDUSTRIALIZATION  
AT CUSTOMER'S PLANT
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  - 9 ADDITIONAL RESIN MOULD PRODUCTION  
BY RESIN BLOCK TOOLING

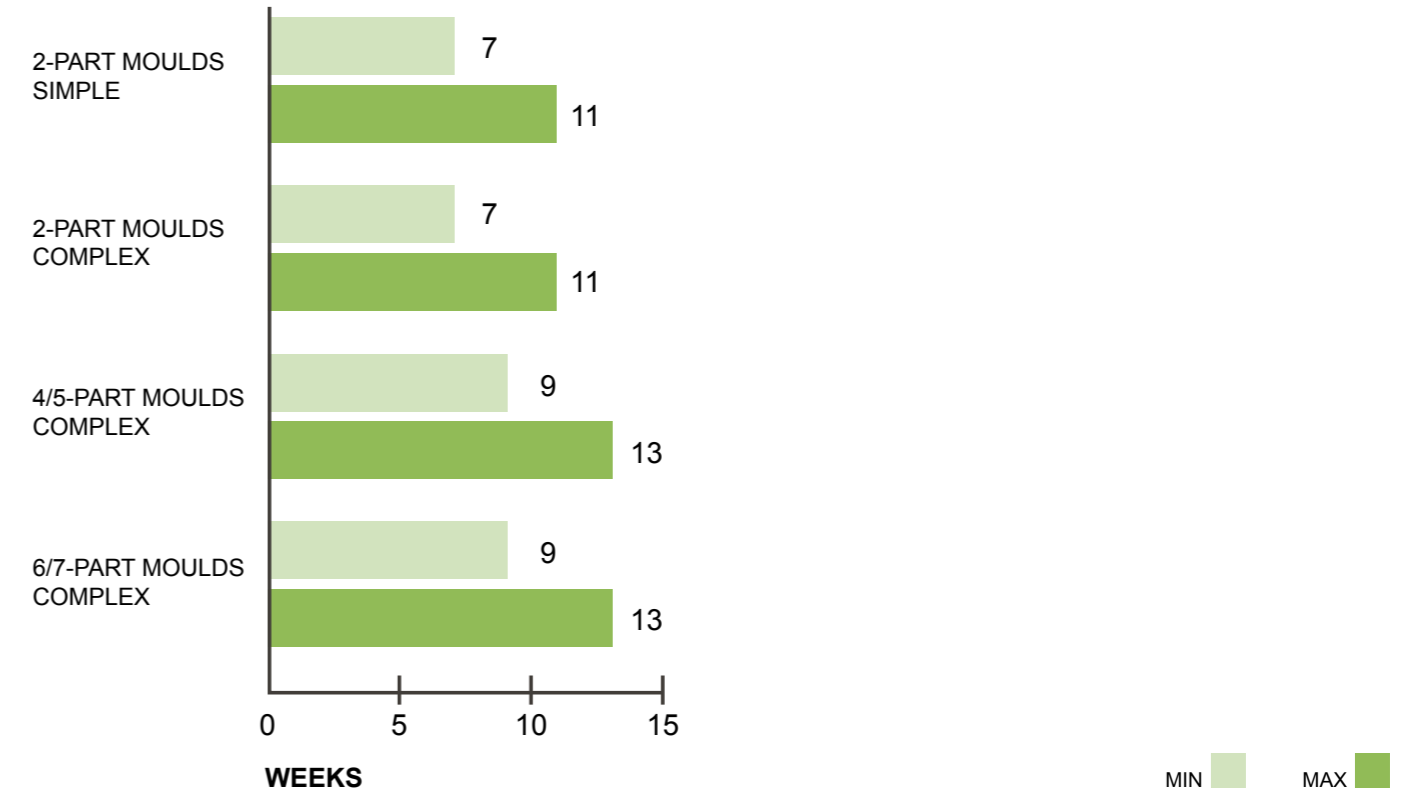
# Resin mould by CASTING

## FIRST FIRED PIECES READY IN SACMI

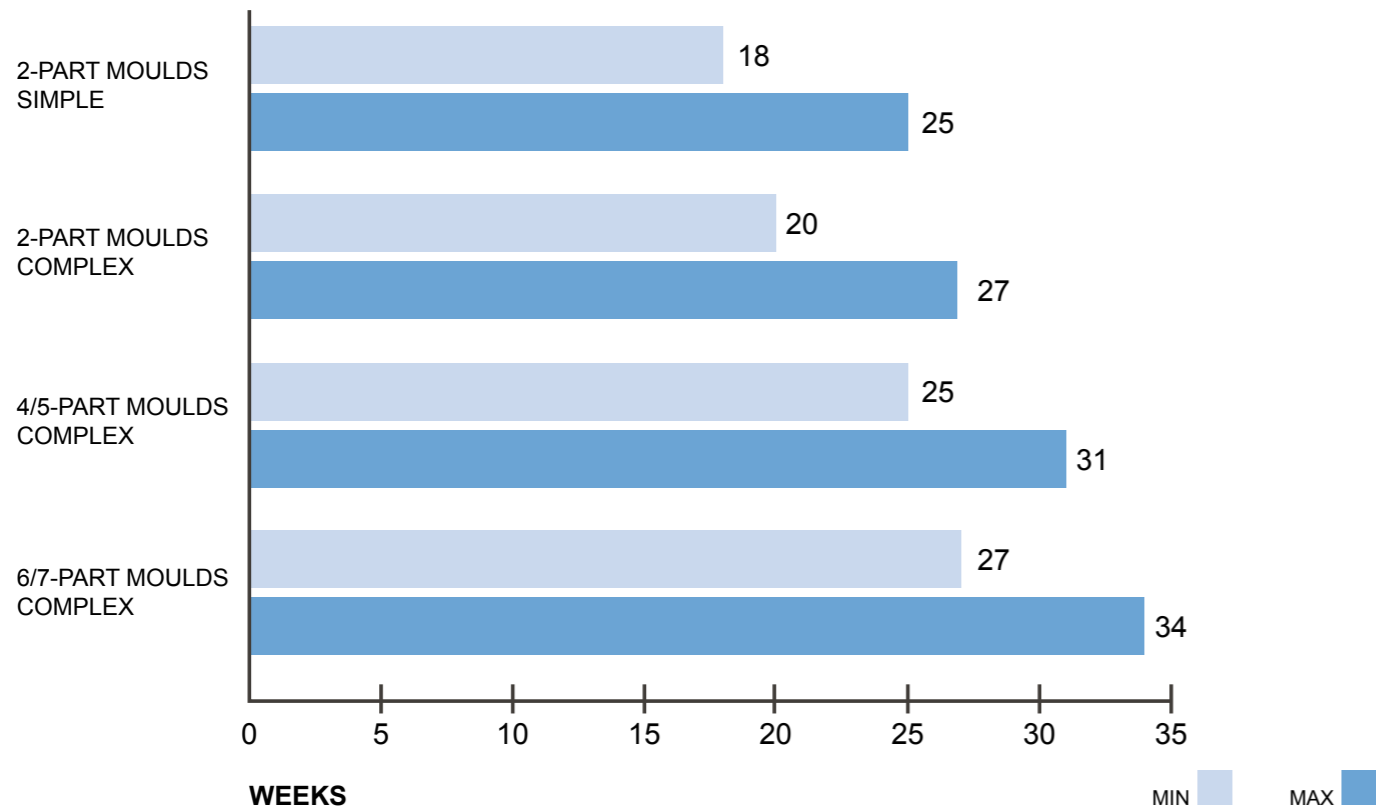


# Resin mould by TOOLING

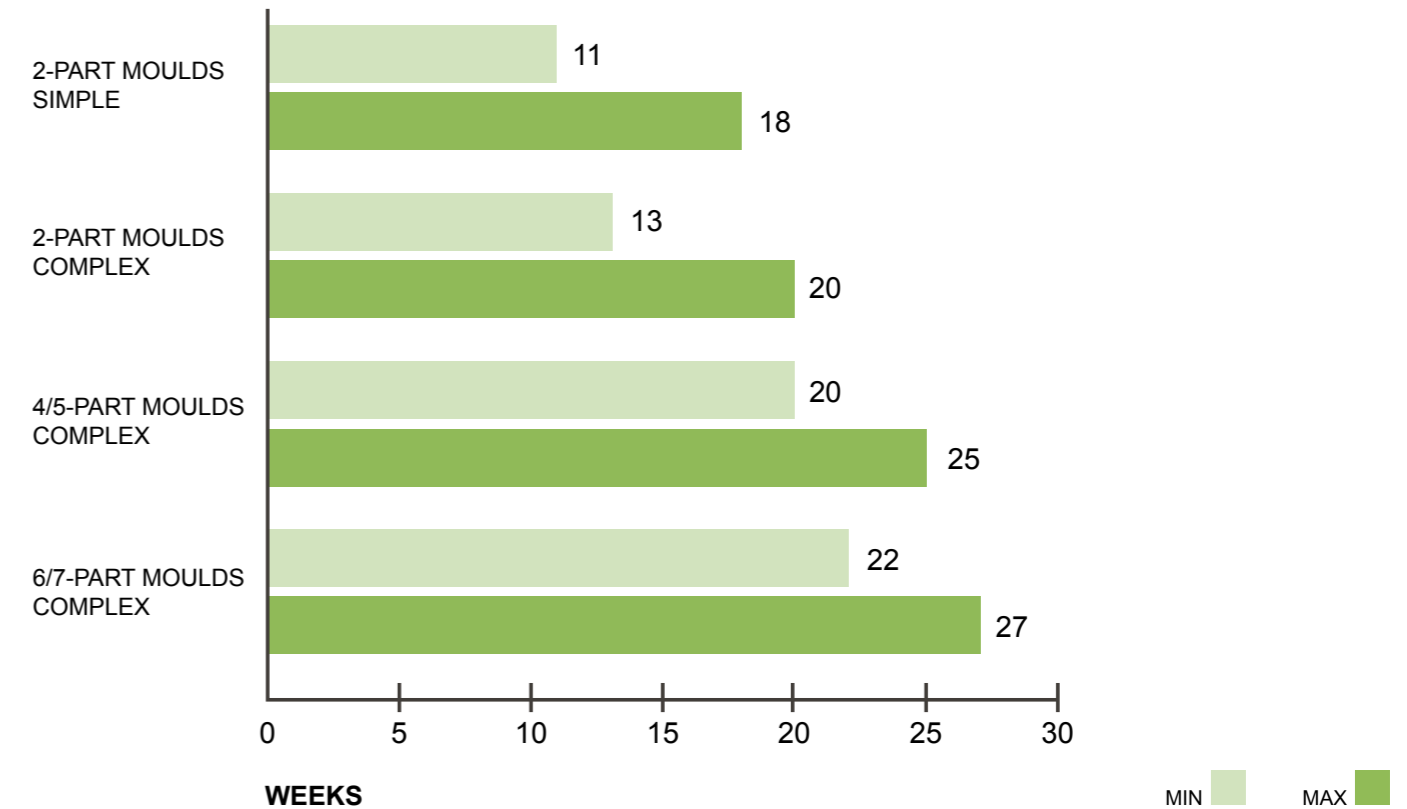
## FIRST FIRED PIECES READY IN SACMI



## MOULD READY TO BE DELIVERED



## MOULD READY TO BE DELIVERED



# Resin mould by **CASTING**

IMPROVEMENT ON PAST DEVELOPMENT FLOW THROUGH :

- **Total re-organisation of the production chain through large investments in Industry 4.0**
- **Digitalization of the entire process with application of the latest technologies in the field of reverse engineering, CAD engineering, CAM 5 axis application**
- **Case-mould produced from the plaster mould created by CAD/CAM**
- **Time and cost savings to obtain the first fired piece and complete development**

# Resin mould by **TOOLING**

IMPROVEMENT ON PAST DEVELOPMENT FLOW THROUGH :

- **Savings in development costs for the production of the first two moulds**
- **Time savings of up to 35-50% to obtain fired piece**
- **Time savings of up to 15-35% for complete development**
- **Case-mould only at the end of the industrialization process (if requested or necessary)**

**PRODUCTION FLOW ALREADY AVAILABLE FOR DEVELOPMENT OF TWO-PART MOULDS. PROCESS BEING OPTIMIZED FOR MULTI-PART MOULDS.**



# Resin mould by ArTooling

SACMI has developed a new concept for decorating the surfaces of sanitaryware items by transferring the decoration directly onto the porous resin mould giving the ceramic piece a structured surface.

This new workflow is called ARTOOLING and can be used to create high resolution structures for a vast range of patterns, from abstract designs to natural stone effects.



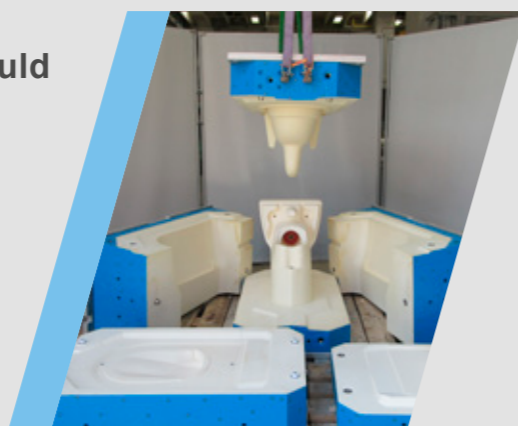
# **SACMI.resin moulds**

**1980**



2-part  
resin mould

**1996**



7-part  
resin mould

**2013**



2-part CAM-tooled  
resin mould

**2022**



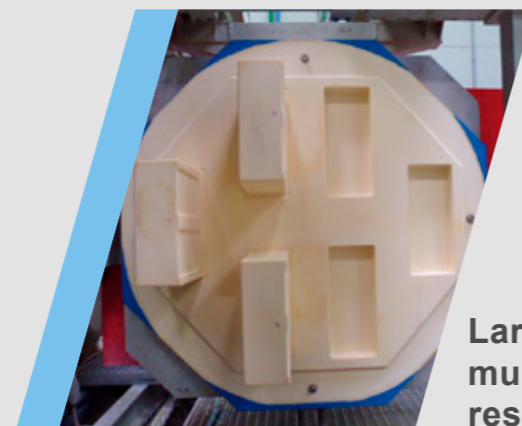
ArTooling moulds  
(new design frontiers)

**1993**



4-part  
resin mould

**2000**



Largest  
multi-cavity  
resin mould

**2020**



7-part CAM-tooled  
resin mould

