CASTIMO

High Pressure Slip Casting

The Complete Turnkey Solution

ALL YOU NEED FOR HPSC

About CASTIMO

CASTIMO

Founded in 2011, CASTIMO is a globally recognized manufacturer of porous resin solutions for the ceramic industry, specializing in High Pressure Slip Casting (HPSC).

CASTIMO supports ceramic manufacturers worldwide with three core product groups:

- Porous resin components for in-house mold manufacturing
- Ready-to-use porous resin molds for industrial production
- High Pressure Slip Casting (HPSC) machines and system solutions

Company Profile

CASTIMO

CASTIMO combines material expertise, process know-how, and system understanding to support efficient and reliable ceramic production.

Headquartered in Germany, CASTIMO operates global business functions while manufacturing its porous resin products at dedicated production facilities in Turkey.

Defined quality standards ensure consistent material performance, reliable lead times, and dependable worldwide supply.

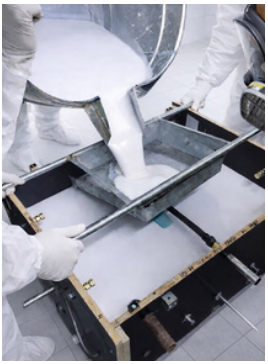
Porous Resin Components

CASTIMO

CASTIMO provides high-performance porous resin components for the in-house manufacturing of molds used in High Pressure Slip Casting applications.

Key Benefits

- Consistent porosity and material structure
- Optimized for high-pressure casting processes
- Flexible integration into existing mold concepts
- Reliable and reproducible material performance



Porous Resin Components

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CASTIMO porous resin components are designed to meet demanding industrial requirements in terms of durability, permeability, and process stability.

They enable ceramic manufacturers to maintain full control over mold design while ensuring stable casting results and long service life.

CASTIMO | RESINMICRO

Defined pore structure with a mean pore radius of 12-15 (small pores) and a narrow arrangement of the pores (MICRO)

- This pore structure is specifically designed for fine parts of slip and reduces clogging (contamination) of pores.
- Minimal deformation in the pressure casting system due to its high resistance.
- Products will be shipped with 4 component system.
- Easy casting thanks to long processing time.
- Ensures long mold life.
- High pressure and abrasion resistance.

Working pressure	5-30 bar
Mean pore radius	12-15 micron
Porosity	25-30 %
Flexural strength	20-23 N /mm2
Compressive resistance	44-47 N /mm2
Flow rate	12-15 l/min
Shrinkage	approx. 0,2%

CASTIMO | RESINPRO

It has a medium/large pore structure along with a pore structure with a diameter of 16-19 microns

- Thanks to its medium/large pore structure, it allows you to get products 25% faster in the pressure casting system compared to Castimo Resin Micro.
- Minimal deformation in the pressure casting system due to its high resistance.
- Products will be delivered with 4 component system.
- Easy casting thanks to long processing time.
- Ensures long mold life.
- High pressure and abrasion resistance.

Working pressure	5-30 bar
Mean pore radius	16-19 micron
Porosity	25-30 %
Flexural strength	20-23 N /mm2
Compressive resistance	44-47 N /mm2
Flow rate	16-21 l/min
Shrinkage	approx. 0,2%

Molds

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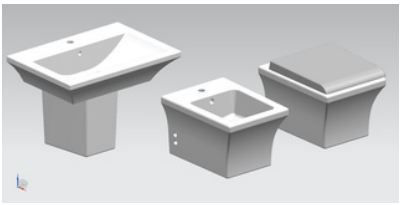
CASTIMO offers ready-to-use porous resin molds designed for efficient and reliable high-pressure slip casting production.

Key Benefits

- Reduced mold preparation time
- Consistent casting quality
- Optimized for high productivity
- Long service life in industrial operation

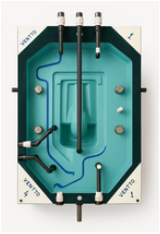


Design

Plaster Mold CNC Milling

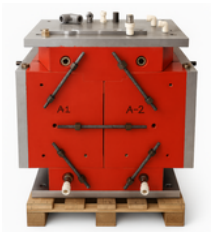
Prototype Casting Mold

Prototype Product



Araldite Case Mold

Porous Resin Casting



Porous Resin Mold Set

Molds

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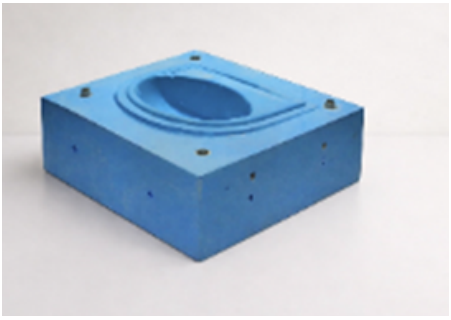
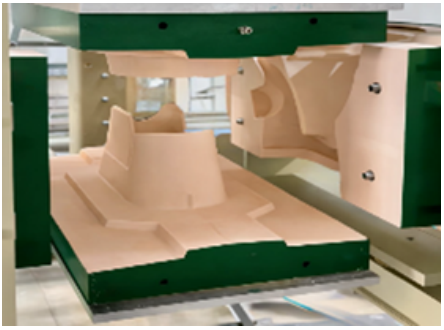
CASTIMO molds are engineered to support stable and repeatable casting processes in sanitaryware and tableware production.

They help manufacturers improve product quality while reducing cycle times and production variability.

Plaster Model Molds



Araldite/Epoxy Case Molds



Porous Resin Molds

Solid Resin Blocks

HPSC Machines

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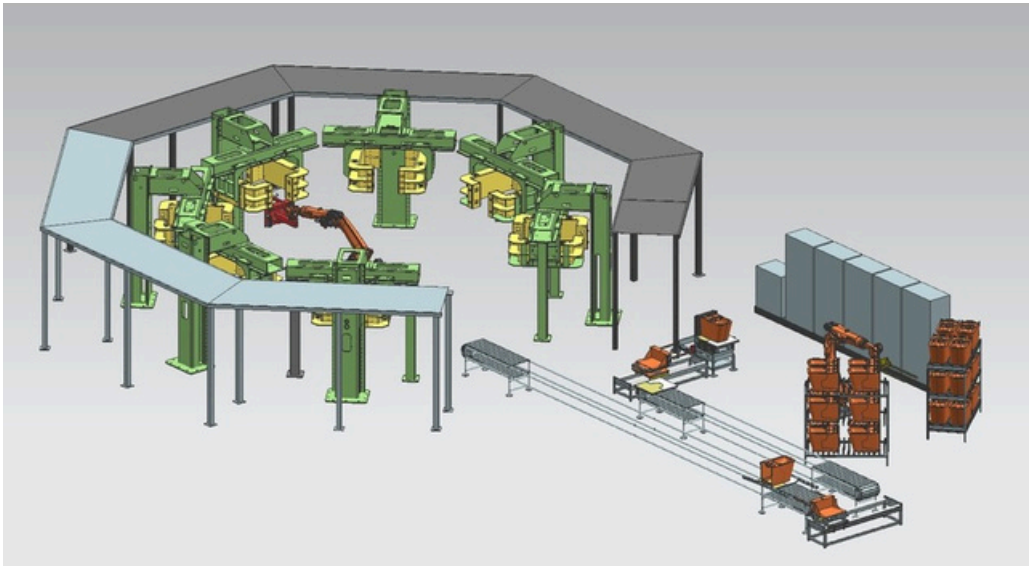
CASTIMO provides consulting and sales support for high-pressure slip casting machines as part of complete system solutions for ceramic production.



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HPSC Machines

CASTIMO

Our machine solutions are designed to integrate seamlessly with porous resin molds and components, enabling efficient, reliable, and scalable production concepts.

CASTIMO supports customers from system selection through implementation and operation.

Mold Parts per Product	Applicable Product Types
2-Piece	Washbasins, cisterns, cistern lids, half pedestals, full pedestals (column type), squat pans
3-Piece	Wall-hung toilets (WC), wall-hung bidets
4-Piece	Close-Coupled toilet sets (Rimless, Tornado, and full-flush systems), floor-mounted bidet variants
5-Piece	Back-to-wall (BTW) toilets, back-to-wall single-piece toilets, and bidets
7-Piece	Rim-bonded toilet models covering all WC types (body–rim configurations)
11-Piece	One-piece toilets, back-to-wall toilets with multi-part bonding, solid and complex designs (shell–trap–rim structures)

Designed to maximize efficiency and flexibility in vitrified sanitaryware production, the ANKACAST-777 High Pressure Slip Casting Machine delivers high output with optimized investment costs.

The production capacities below are calculated based on toilet (WC) production, one of the most challenging product groups in sanitaryware manufacturing.

One machine set consists of up to seven stations, and a single robot can serve a maximum of seven stations.

Key Benefits of ANKACAST-777 High Pressure Slip Casting Machine

- High Production Capacity
- Optimized Investment Cost
- Proven Performance
- User-Friendly Design
- Flexible Manufacturing

Number of Station	Castings per Shift with 1 Mold (8 hours)	Shifts	Daily Output (Units)	Working Days / Month	Monthly Production (Units)
1	20	3	60	26	1560
2	20	3	120	26	3120
3	20	3	180	26	4680
4	20	3	240	26	6240
5	20	3	300	26	7800
6	20	3	360	26	9360
7	20	3	420	26	10920

CRITERIA	STANDARD BATTERY TYPE HPSC MACHINE (4 PARTS)	ANKA-777 HPSC MACHINE (5 PARTS)
System Structure	Battery systems consist of minimum 8 and maximum 10 molds.	Each station operates independently.
Model Variety	Separate systems (machine lines) are required for different WC models.	All WC models can be produced on the same machine by only changing molds (3-4-5 parts).
Cycle Time	45–60 minutes.	22–30 minutes (may vary depending on slip rheology).
Machine Investment	Separate machine investments are required for each model group.	One machine investment sufficient.
Operating Requirement	All molds in the battery must operate simultaneously.	The stations can be operated independently or linked in series, enabling flexible processing of complex products (e.g. monoblock WCs).
Production Cycle	Sequential production with waiting times.	Continuous, synchronized production (up to 7 modules).
Production Efficiency	Lower output due to long cycle times.	Higher output with short cycle times.
Loss in Case of Failure	All products in the battery are scrapped in case of failures, entire battery stops.	Only the affected station stops; others stations continue production.
Mold / Model Change	Entire system must stop until assembly is completed (up to one shift).	Only the machine under change stops; others continue production.
Demolding Time	12–15 minutes	Max. 30 seconds per mold.
Product Quality Consistency	Differences occur between first and last demolded products.	All products are obtained with consistent hardness and quality.

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