



SELF
Group

Self Group at a glance

Self group is a global leader in **engineering** and **manufacturing** of large **aluminium moulds** and **auxiliary tools**.

GREY

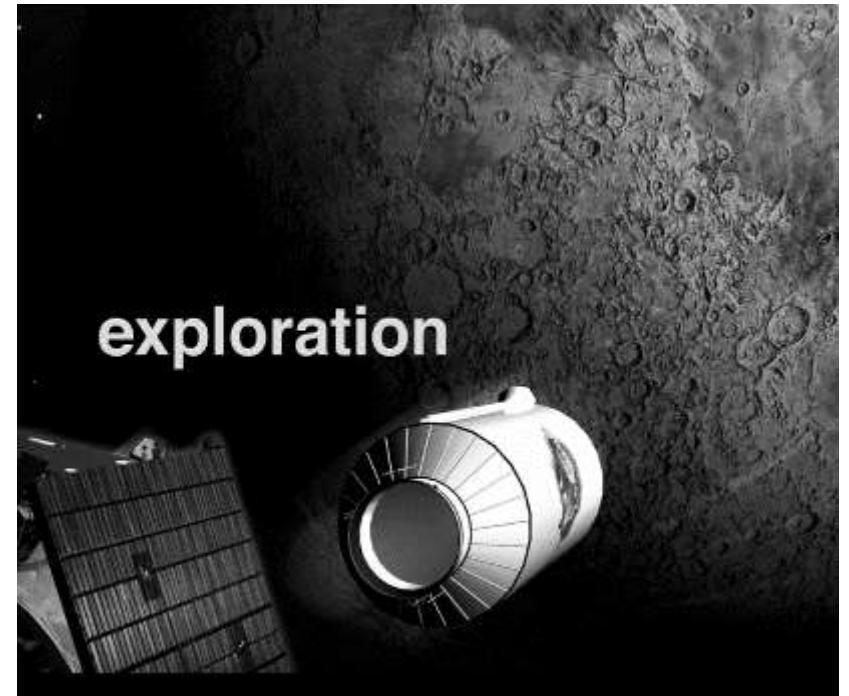
MATTER

FORMS

Our **mission**

Offer our customers **unique and highly customized solutions** relying on the integration of co-design competences with innovative processes and technology.

Support our customers effectively in every phase, **from product development to production.**



What we offer

Prototype and production moulds for:

- › Vacuum forming
- › Pressure forming
- › Twin sheet forming
- › Compression moulding
- › Foaming
- › Back foaming
- › Customized processes



What we offer

Auxiliary tools:

- › Trimming jigs
- › Water Jet fixtures
- › Laser Fixtures
- › Checking fixtures
- › Assembly fixtures



A Long story, from a modelshop...

Self was born in 1962 as a model-shop



1962

Partnership for North American market.



2011

Automotive projects



2013



1985



First aluminum mold

2008



New company headquarters.

2020



Zonta family invested in SELF GROUP srl, pushing for international development

...to global player

HIGHLIGHTS

- ❑ **50+ years** in Engineering and mould manufacturing
- ❑ **10.000+** Tools Worldwide
- ❑ **1 Global player** with international network.
- ❑ **100%** integrated in-house, processes.
- ❑ **500+** moulds & tools delivered every year.



We guarantee

- › Innovative and customized technical solutions.
- › Extreme reliability on delivery times.
- › Ability to offer complete services from A to Z.
- › Top-class product quality.
- › Quick reaction time and problem solving.



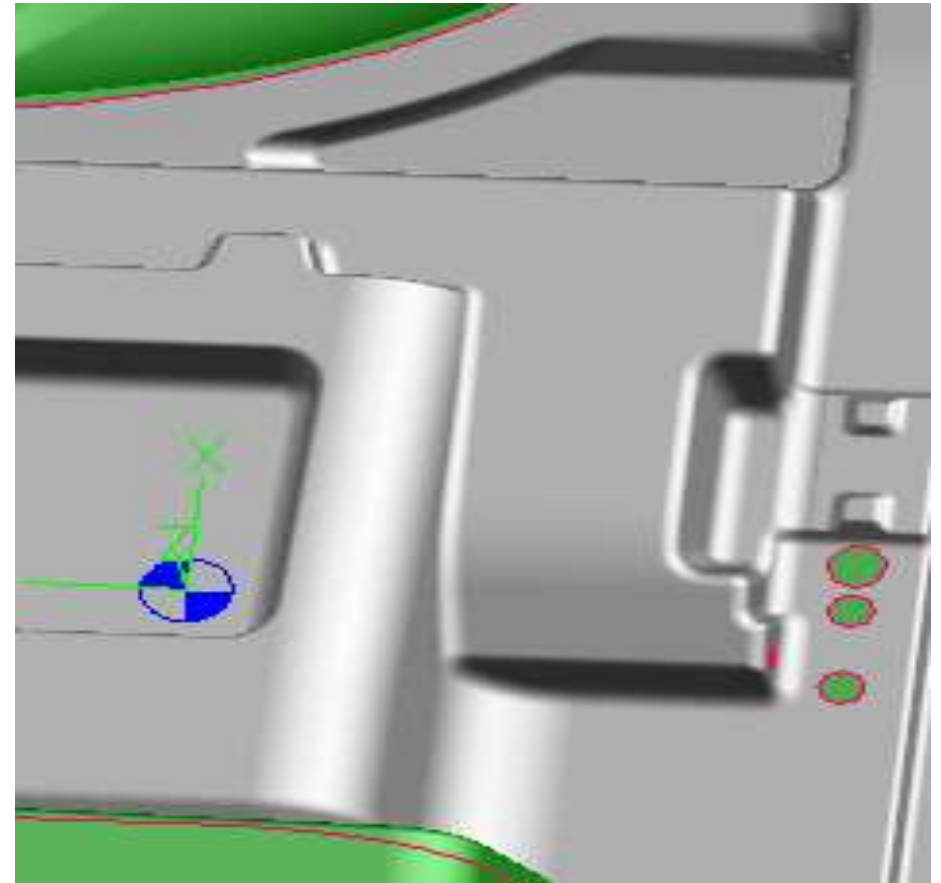
Co-design

- › Style
- › Functional analysis
- › Material selection
- › Design for assembly
- › Design for manufacturing
- › Reverse engineering
- › Prototyping
- › Cost analysis
- › Safety risk analysis



Engineering

- › 3D CAD surface modelling
- › Process simulation
- › Mould engineering
- › 3D CAD solid assembly modelling
- › Product Data Management



Manufacturing

› Pattern Making

- › 5 axis milling machine

› Casting

- › Superior aluminum cast quality
- › Specific aluminum alloys

› Cnc machining

- › 3 axis High speed milling machines
- › 5 axis High speed milling machines

› Polishing and Assembling

- › Polishing
- › Sandblasting
- › Texturing
- › Assembling



Mould and tool Testing

› Dimensional testing

› CMM DEA Alpha Image 20.33.10

Accuracy: $4\mu\text{m} + 4\mu\text{m} / \text{L}$

› Portable CMM arm system with integrated laser scanning

› Temperature distribution testing

› Thermocamera

› Laser systems

› Functional testing

› Pneumatic and mechanic systems



Services

- › On site delivery
- › Installation and set up
- › Process analysis and tuning
- › Maintenance



›

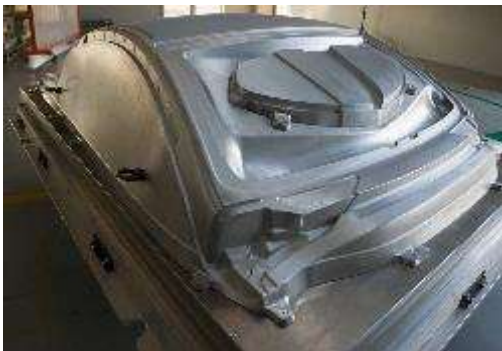
Sectors

And

Applications

Automotive

Thermofforming



Aircraft



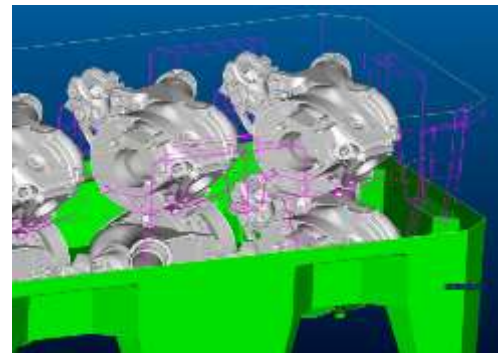
Agriculture And Construction machines



Bath & Wellness



Process Industry



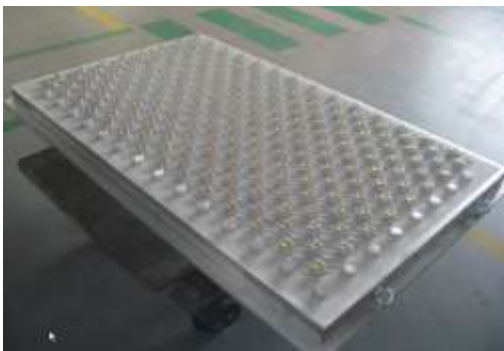
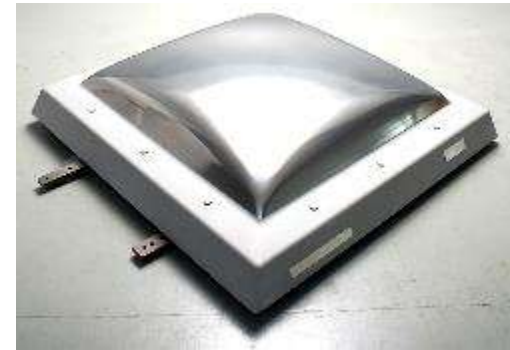
Healthcare



Energy And Environment



Architecture And Construction



Others

