System&Process

# Molded technology in PU furniture business

Pozzi Arosio Polyurethane System





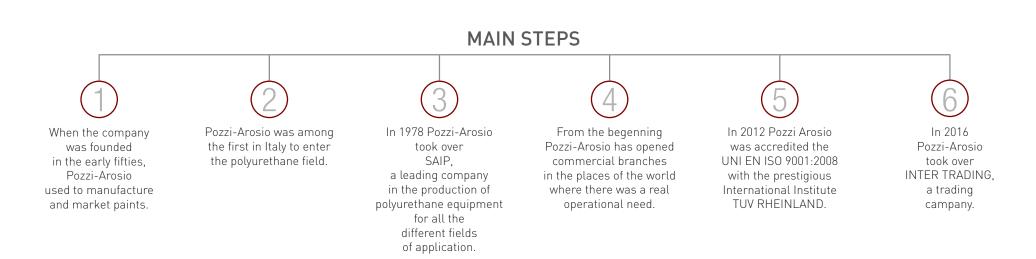




MADE IN ITALY





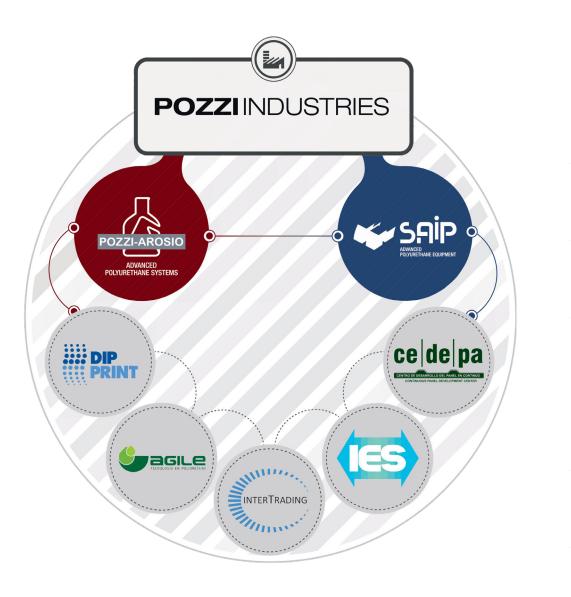










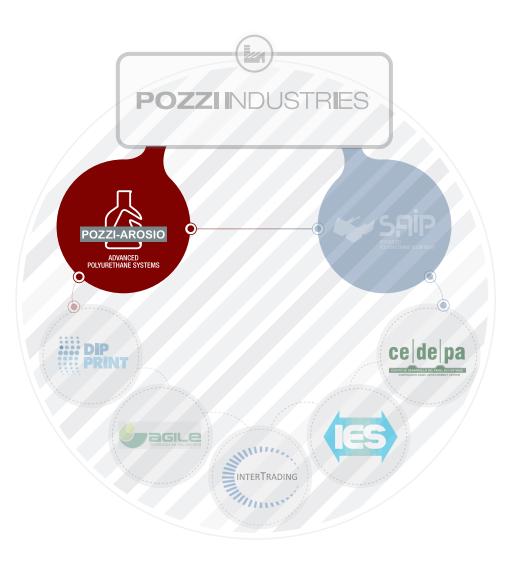


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#### NOT ONLY A NUMBER OF COMPANIES BUT A STRONG AND WELL DEFINED GROUP.

Pozzi Industries is the synergy of competences in chemical, equipment, research, surfaces and decoration. We can provide high quality solution for a single customer necessity, or organize a synergic multicompany answer to complex requests.



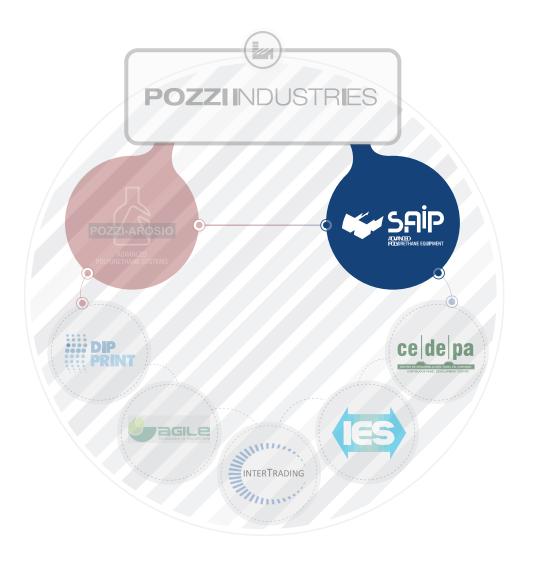


#### AN OUTSTANDING POLYURETHANE SYSTEM-HOUSE OPERATING IN THE INTERNATIONAL POLYURETHANE SCENARIO.

During its long growing path Pozzi-Arosio built up a team of wide experienced people in polyurethane systems. We are now able to offer industrial solutions tailored around the customer.







#### SAIP IS AN INNOVATION AND FULL-QUALITY DRIVEN EQUIPMENT DESIGNER AND MANUFACTURER FOR THE POLYURETHANE INDUSTRY.

SAIP is committed to always developing innovative solutions for its customers' sustainable business success, and profitable growth. SAIP provides its customers with exclusive technical assistance focused on their needs.



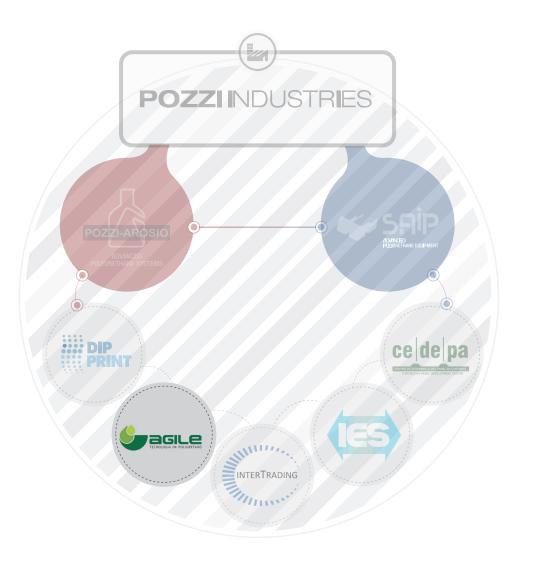




DIP PRINT<sup>™</sup> TECHNOLOGY IS REALLY UNIQUE FOR PRINTING QUALITY DEFINITION AND RENDERING EVEN FOR CONVOLUTED SHAPES ALLOWING AT THE SAME TIME THE MAXIMUM VARIETY OF SUBSTRATES.

DIP PRINT<sup>™</sup> meets every decorating requirement on tridimensional surfaces in plastic, metal, wood, polyurethane and not only. DIP PRINT<sup>™</sup> allows the use for outside decorations of cheaper, more suitable (e.g. fire resistant) or lighter materials, and consequently considerable savings in costs for raw materials, transport, handling.





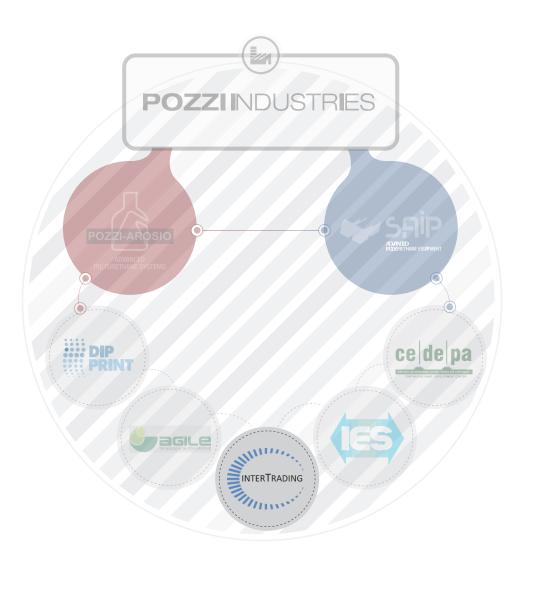
AGILE IS THE RESULT OF A JOINT VENTURE BETWEEN POZZI INDUSTRIES GROUP AND A BRAZILIAN LOCAL PARTNER THAT HAS OVER 30 YEARS OF EXPERIENCE IN THE POLYURETHANE INDUSTRIES.

Agile is an Integrated Solution that includes Polyurethane Systems, Equipment and a highly professional Consultancy Service for the study, planning and implementation of Turnkey Projects.









#### TRADING WITH EXPERIENCE AND PROFESSIONALISM ABLE TO OFFER PERSONALIZED SERVICES.

Inter Trading for more than 40 years works as a trader in the market of chemical products supplying key raw materials and differentiated producst for large and small company based in Italy and Europe.



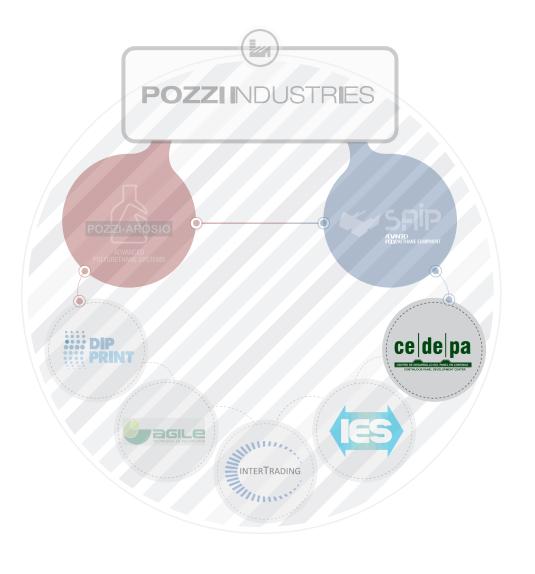


#### INDUSTRIAL ELECTRONIC SOLUTIONS FOR AUTOMATION

Providing customers with support for the electronic components of machinery.



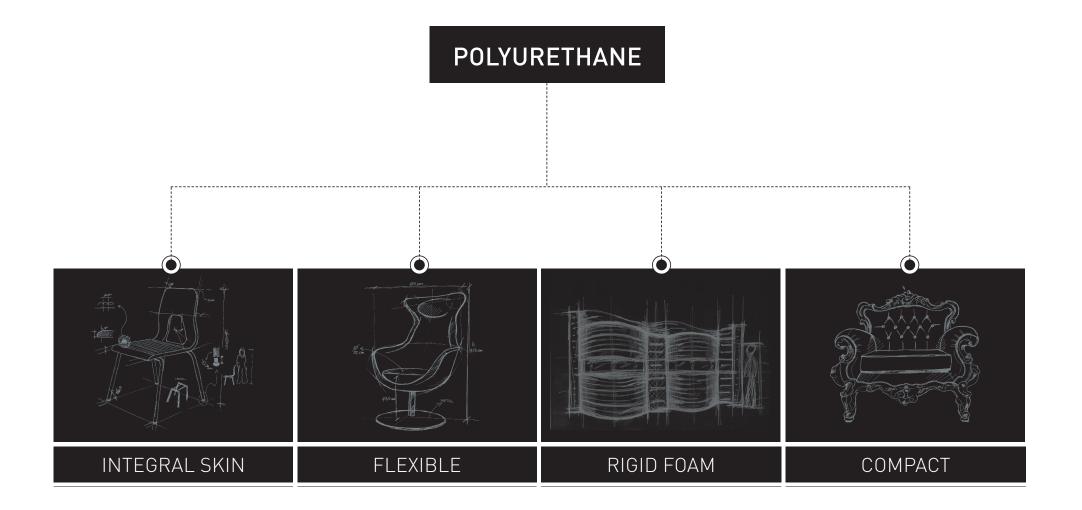




#### CE|DE|PA IS A UNIQUE, STATE-OF-THE-ART AND INDUSTRIAL-SCALE LINE FULLY DEVOTED TO TESTING AND PROTOTYPING ACTIVITIES.

Conceived to allow players in the construction industry worldwide accelerate the development of novel solutions for the manufacturing of polyurethanemade panels for thermal insulation produced with the specific technology of continuous double lamination process.







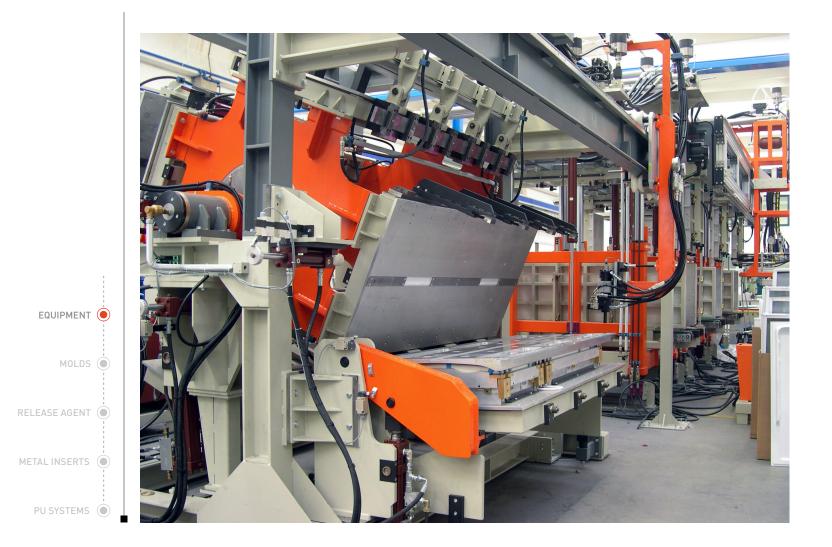
# • EQUIPMENT



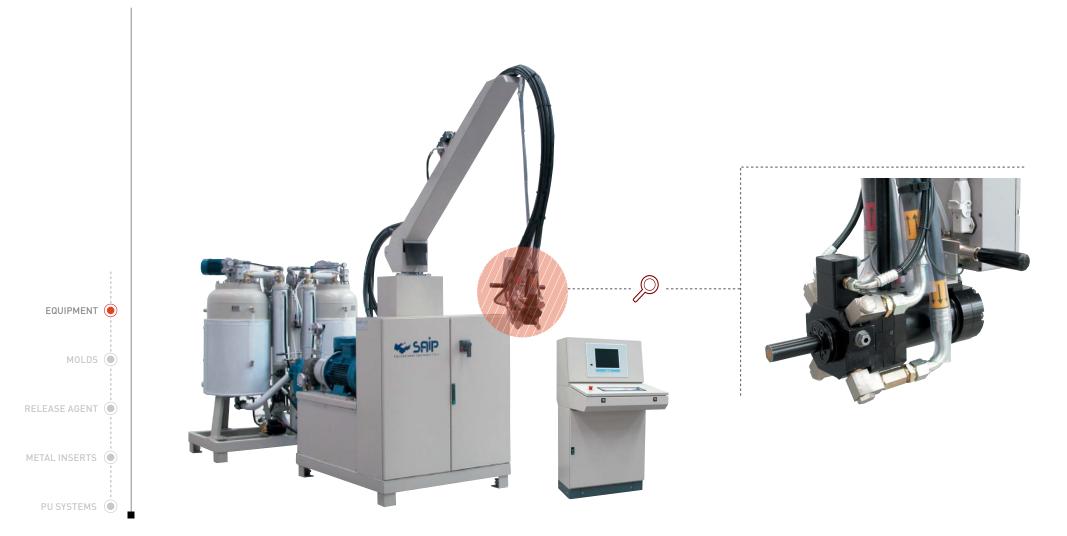
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SAIP S.I.I ADVANCED POLYURETHANE EQUI 22044 ROMANO' DI NVERIGO I VIA BRESSANELLA, 1 TEL +3910131-6057 FAX +3910131-607

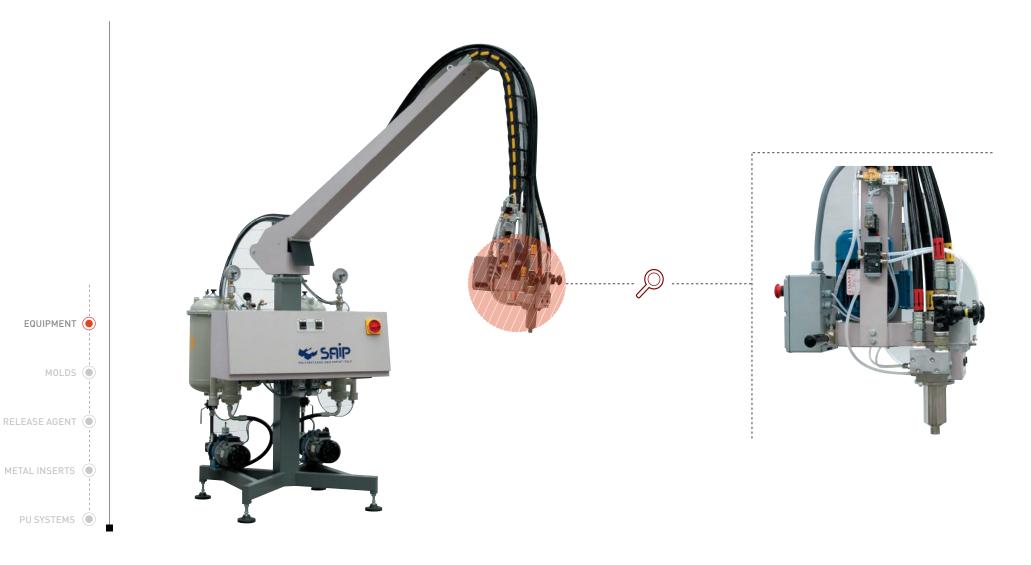








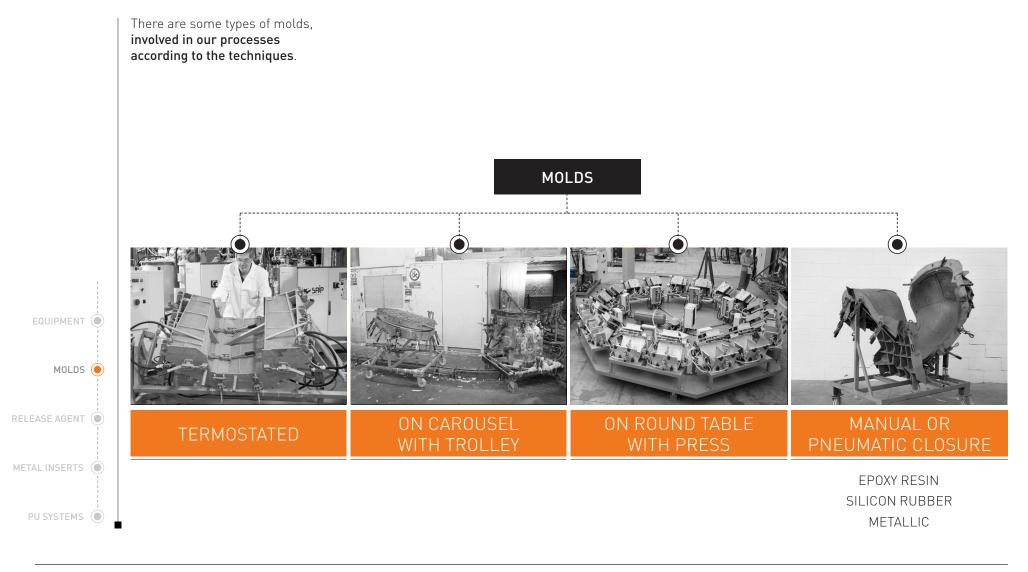






# • MOLDS





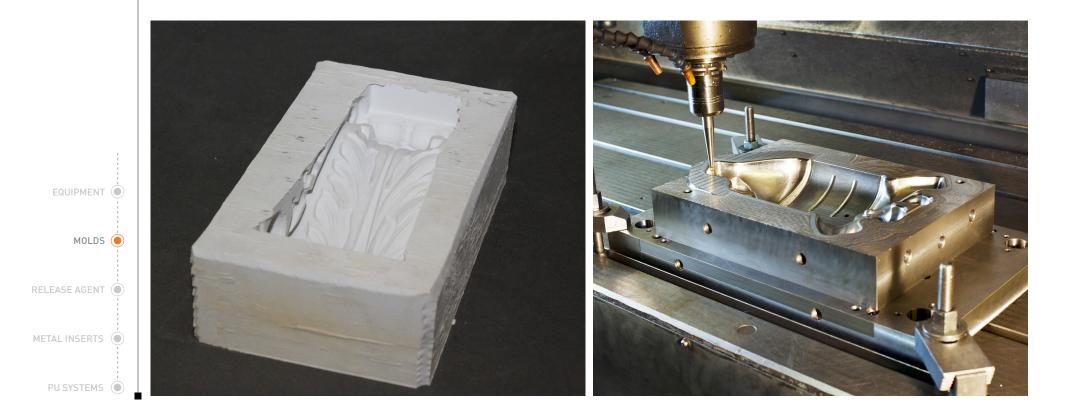








On the left **a silicon rubber**, On the right **a metallic mold**.





# • RELEASE AGENT



**SPRAYING SPECIAL MIX OF SOLVENTS** for optimal release of final piece

EQUIPMENT MOLDS RELEASE AGENT METAL INSERTS PU SYSTEMS



# • METAL INSERT

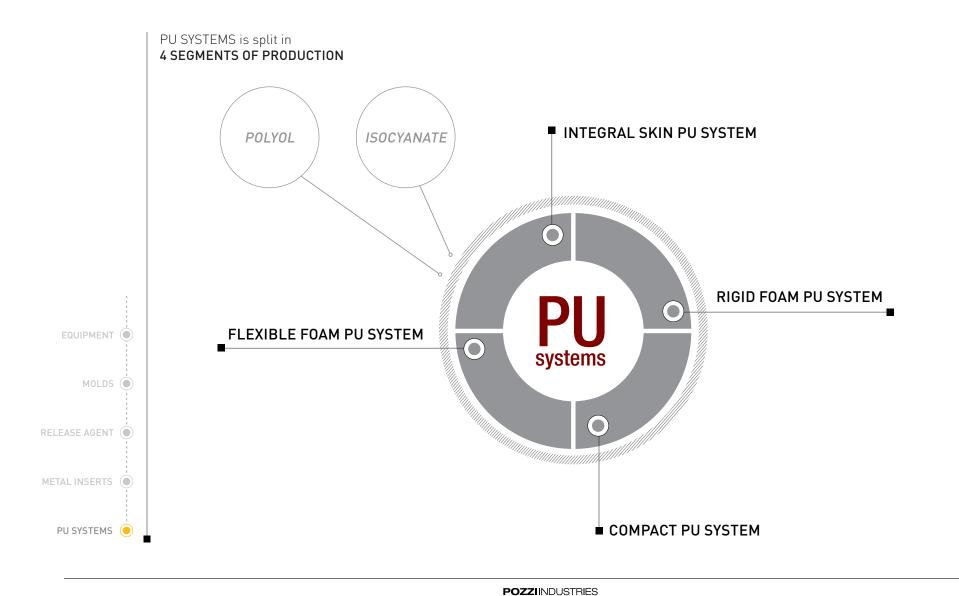




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# • PU SYSTEMS

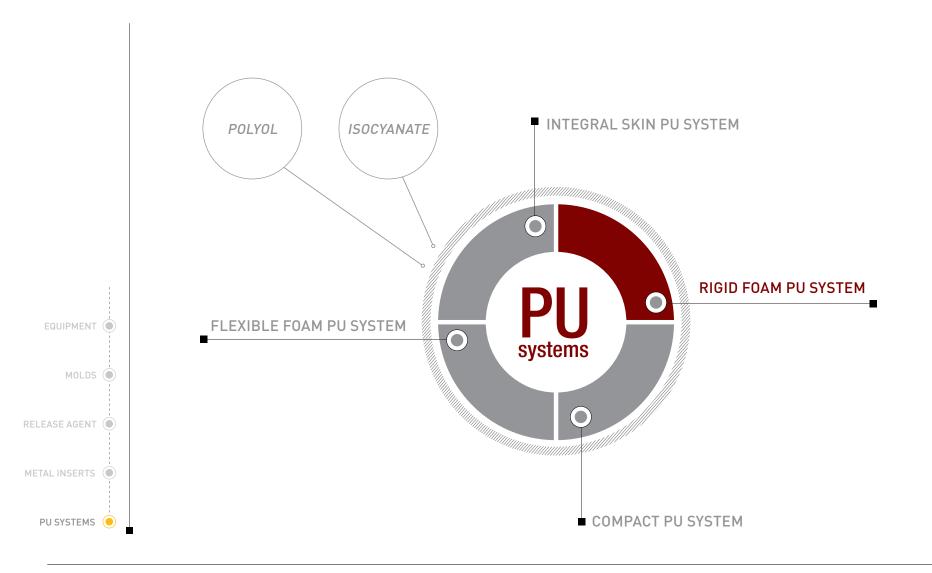




MADE IN ITALY







**POZZI** INDUSTRIES





POZZIINDUSTRIES



#### **PROPERTIES:**

- Toughness comparable to wood
- Stability
- Tailored elasticity
- Good adherence to surface varnish
- Wood grain effect via the mold
- Easy processability of the sole surface structure
- Excellent resistance to nails and screws

## EQUIPMENT

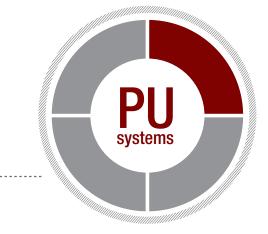
### MOLDS

METAL INSERTS

PU SYSTEMS ()

## I RELEASE AGENT

Equipment	High and Low pressure
Molds	Epoxy Resin and Silicon Rubber
Release agent	Spray, Wax
nsert	Wood, Metal







A special mix of solvents expecially produced to allow the optimal release of final piece. Polyurethane is pured into the mold with SAIP equipment.

The correct choice of Polyurethane System will generate the better result and the optimal characteristics.

















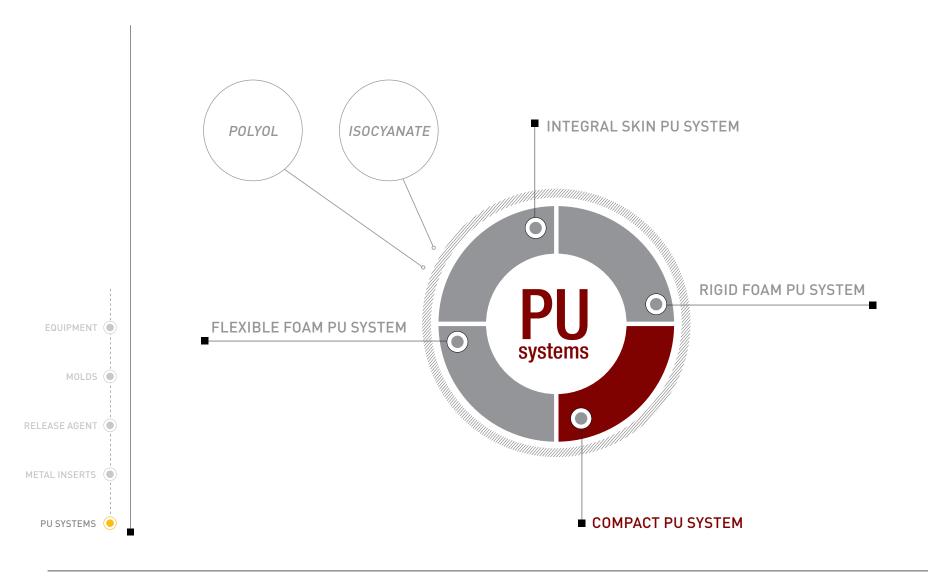






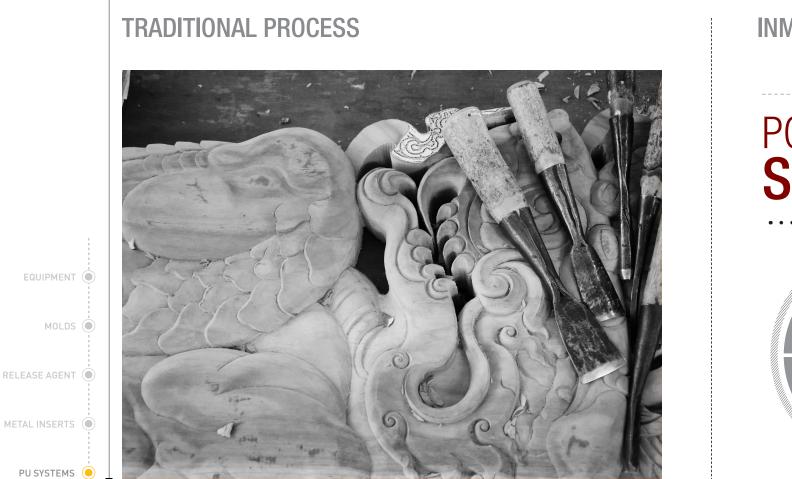






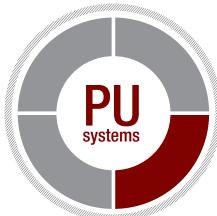
MADE IN ITALY





### **INMOLD PROCESS**







#### PROPERTIES:

- Toughness comparable to wood
- Excellent surface
- High density between 900 and 1100 gr/lt
- Does not absorb humidity
- Complex shapes and thikness
- Can be overcoated
- Easy to manage

Fauinment

#### EQUIPMENT 🌘



RELEASE AGENT

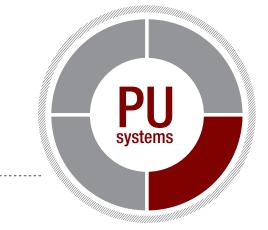
METAL INSERTS

PU SYSTEMS

### MOLDS MC

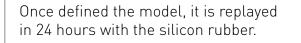
Equipment	
Molds	Epoxy Resin and Silicon Rubber
Release agent	Spray, Wax
Insert	Wood, Metal

High and Low pressure









Polyurethane system is pured into the mold.

Polyurethane system becomes hard and it takes the shape of the mold.























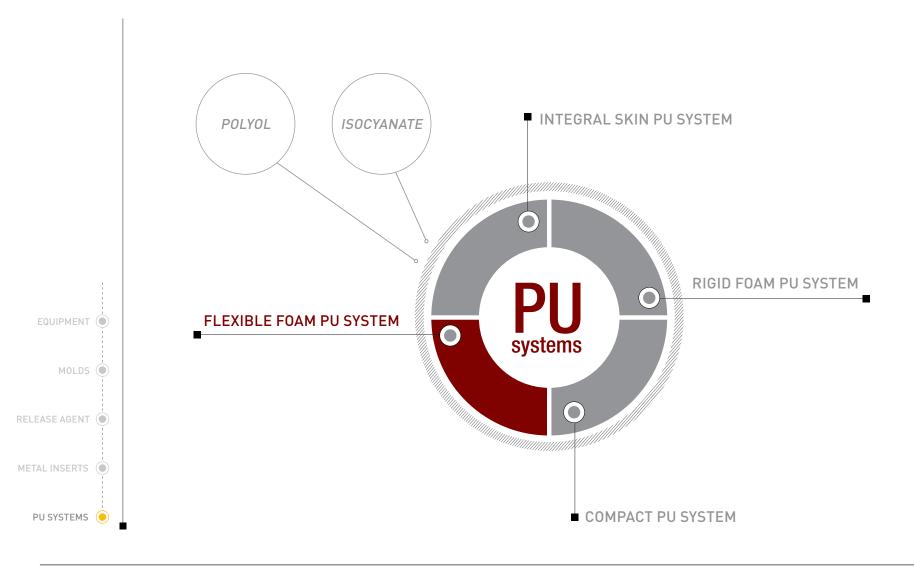








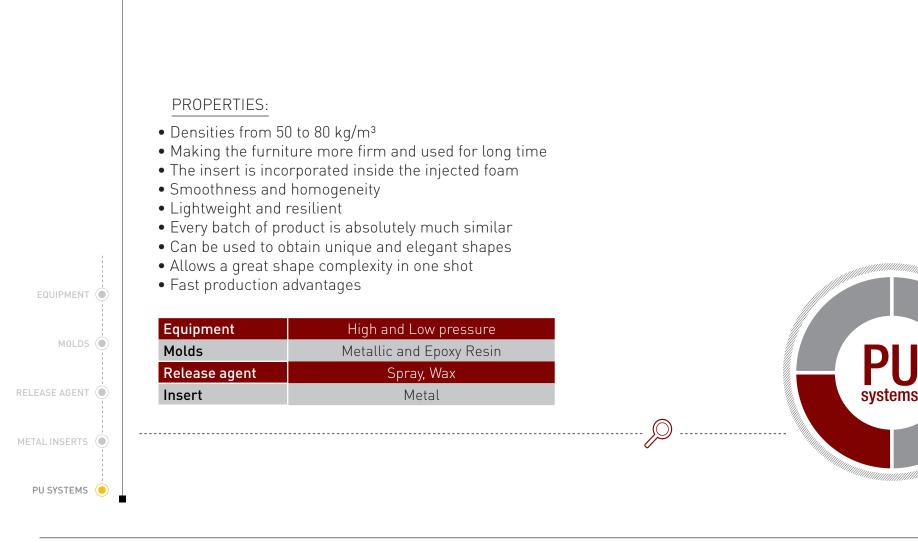












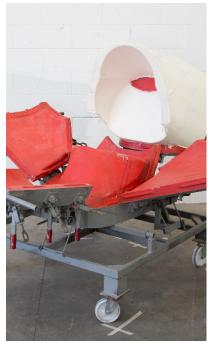


A special mix of solvents expecially produced to allow the optimal release of final piece. Metal insert are fitting on the mold before to close it.

Polyurethane is pured into the mold with SAIP equipment.



The correct choice of Polyurethane System will generate the better result and the optimal characteristics.











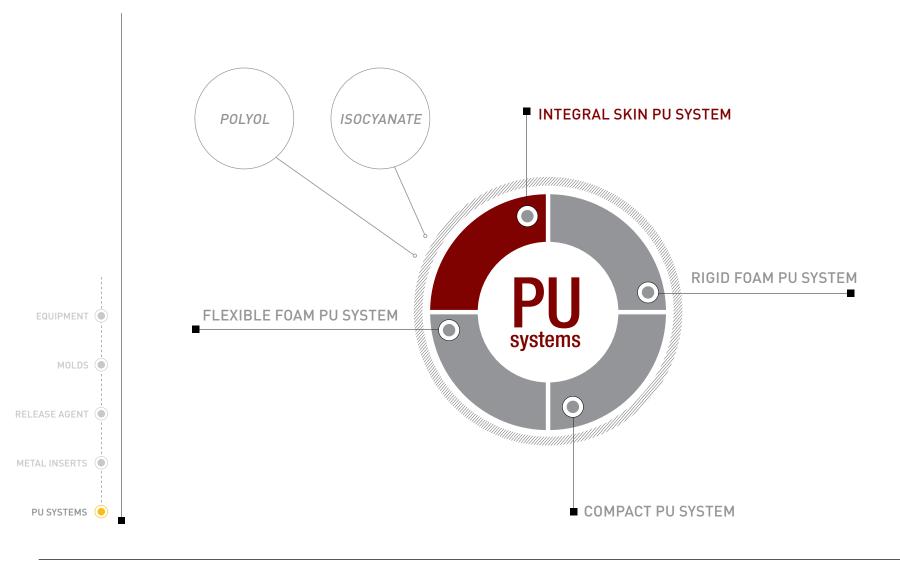






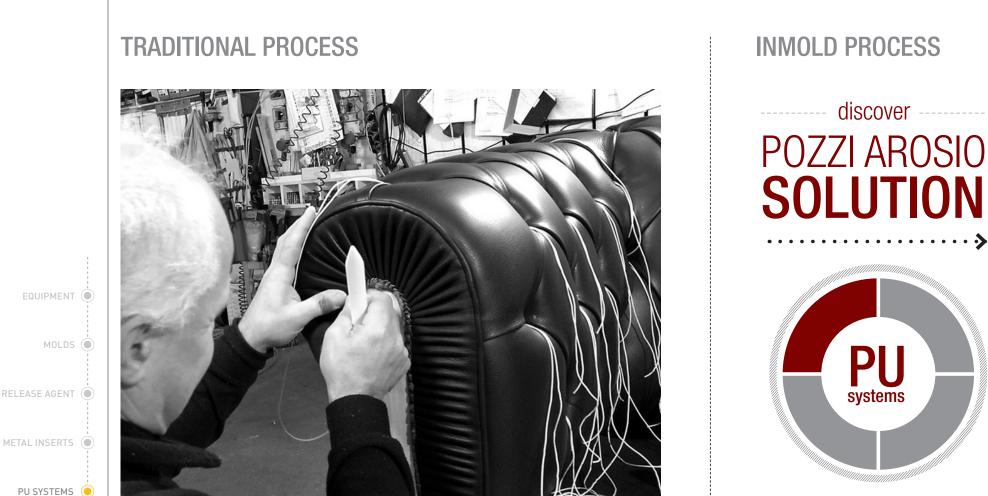








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**INMOLD PROCESS** 

**POZZI**INDUSTRIES — Made in Italy —



#### **PROPERTIES:** • Densities from 250 to 450 kg/m<sup>3</sup> • Making the furniture more firm and used for long time • The insert is incorporated inside the injected foam • Smoothness and homogeneity • Lightweight and resilient • Can be used to obtain unique and elegant shapes • Allows a great shape complexity in one shot EQUIPMENT Equipment Low pressure MOLDS ( Metallic and Epoxy Resin Molds **Release agent** Spray, Wax RELEASE AGENT Metal systems Insert METAL INSERTS PU SYSTEMS

**POZZI**INDUSTRIES



A special mix of solvents expecially produced to allow the optimal release of final piece.

A special coating is sprayed on the mold.

Metal insert are fitting on the mold before to close it.

Polyurethane is pured into the mold with SAIP equipment.

The correct choice of Polyurethane System will generate the better result and the optimal characteristics.



PU SYSTEMS





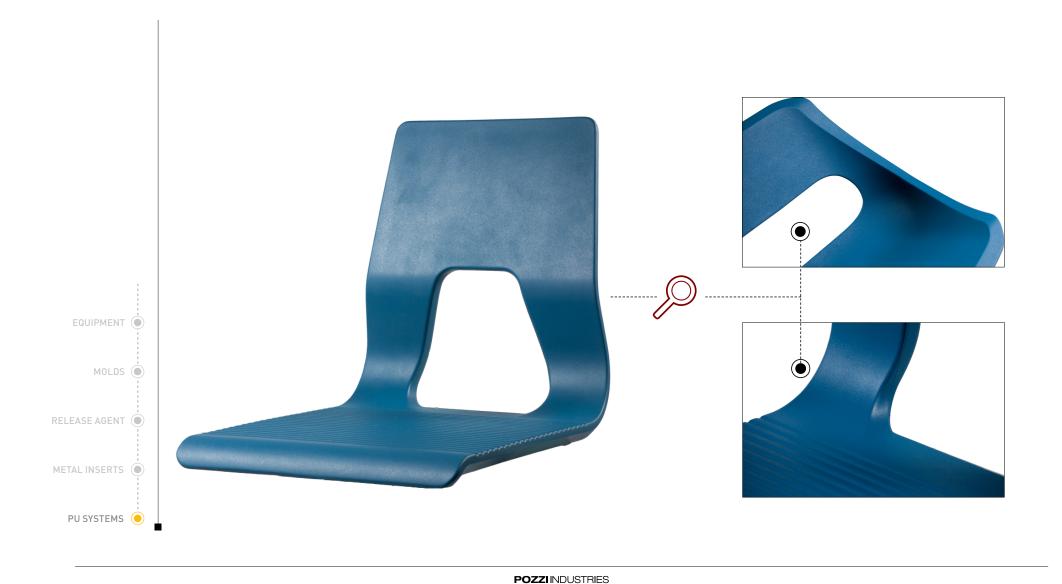




















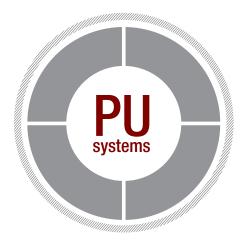








## POZZI AROSIO SOLUTION



## it means ADVANTAGES





# ADVANTAGES

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# **PRODUCTION SCRAPS**

**POZZI** INDUSTRIES



ADVANTAGES PRODUCTION SCRAPS

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## POZZI AROSIO SOLUTION

### it allows to REDUCE AND MINIMIZE any production scraps comparing to the traditional process



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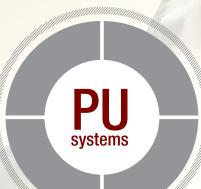
# ADVANTAGES

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# **PRODUCTION TIME**



## POZZI AROSIO SOLUTION



Our processes allow **TO SAVE TIME IN ANY PRODUCTION STEPS** without any loss of quality and incresing

the amount of production.

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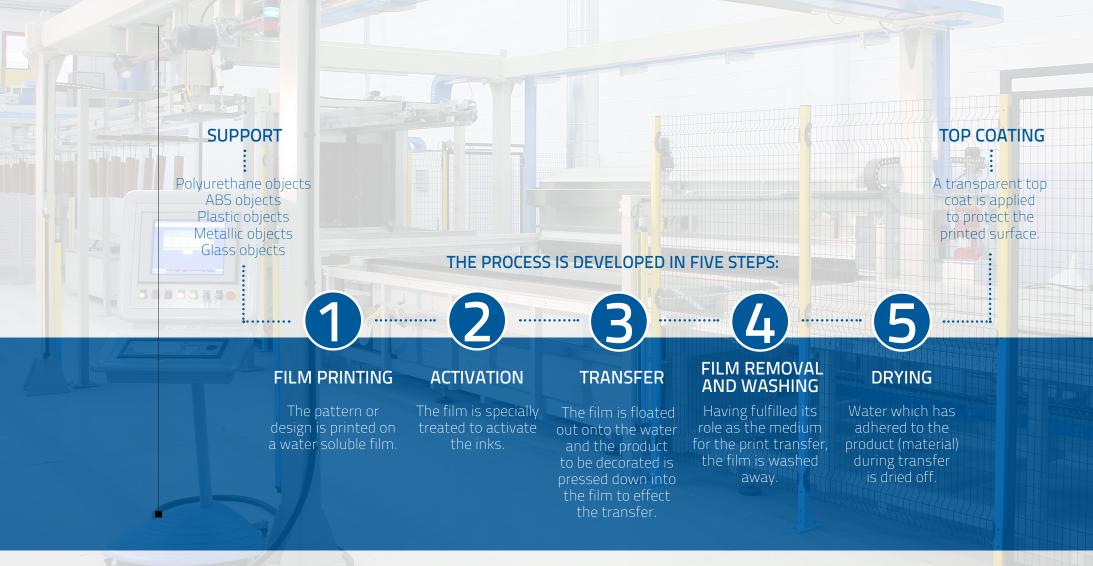
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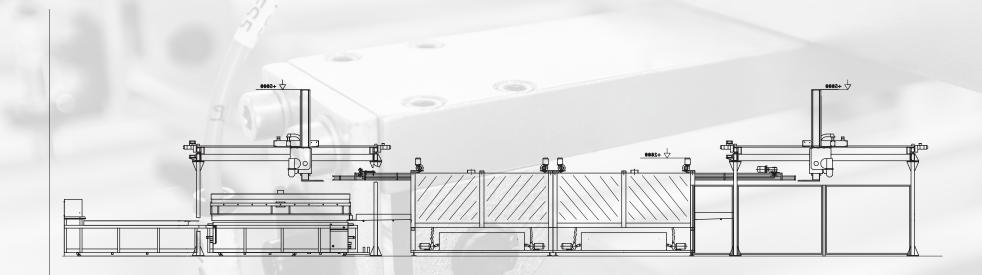
- Fully automated
- Entirely made in Italy
- System designed, engineered and manufactured by a dedicated team

DIP PRINT™ IS AIMED AT DECORATING COMPLEX SHAPED 3D OBJECTS.









#### THE SYSTEM

- The fully automated DIP PRINT system is operated by a computerised control system;
- The system is equipped with native and dedicated software which plunges the object into the tank without any manual intervention.
- One person only operating at the control console is sufficient to assist the entire system and productive process.



- DIP PRINT ™ technology is really unique for printing quality in definition and rendering even for convoluted shapes allowing at the same time the maximum variety of substrates.
- DIP PRINT <sup>™</sup> is the best option, the winning solution, especially in cases where significant production difficulties come along with top level finishing requirements.
  - ••• DIP PRINT <sup>™</sup> is widely used in automotive, boat and aeroplane industry.
- DIP PRINT <sup>™</sup> allows the use for outside decorations of cheaper, more suitable (e.g. fire resistant) or lighter materials, and consequently considerable savings in costs for raw materials, transport, handling.
  - DIP PRINT <sup>™</sup> decorated pieces show the best appearance you can imagine in every pattern you can imagine.

### **DIP PRINT ™ IS THE WINNING TECHNOLOGY**





#### DIMENSIONS

- The dimensions of the immersion tank (3x1m) it is remarkable,
- It make it possible to decorate:
  - Considerably long pieces
  - Considerably thick pieces
  - Considerably complex and convoluted shapes.

#### **CONVOLUTED SHAPES**

- There are no materials to which the high-resolution DIP PRINT technology cannot be applied.
- All COMPLEX SHAPES materials with paintable surfaces have the greatest benefit.
- Dip Print grants:
  - A very well-defined personality
  - A significant material metamorphosis
  - A strongly technological aspect
  - An increased aesthetic and artistic piece evolution

### QUALITY OF FILM

- All textures quality is in High Definition (HD)
- The drawing on the film can also be transferred to objects with minimum corner radii and to undercuts
- The texture always finds its perfectly orderly fashion to transfer itself and to spread on the whole object
- without deforming!

POZZI INDUSTRIES

POZZI-AROSIO DUVIRETMARE EVISTEME DUVIRETMARE EVISTEME APPLICATIONS

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### INDUSTRIAL DESIGN

POZZI

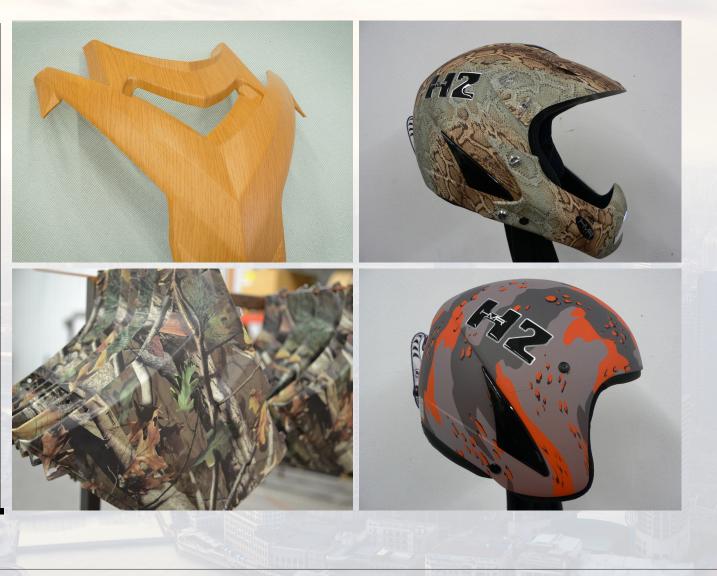
### SPORT

MAR

### INTERIOR FURNITURE













# WHAT ELSE?

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