



Ossida

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(Ve) Italy.



ALUMINIUM

→ Aluminum is the most abundant metal on Earth and the 3rd most abundant element: we will never run out of it.



It's present in a combined state and processing it is complicated and expensive: at the end of the 19th century its value was the same of silver.

Amongst metal only magnesium is the lighter, but way more expensive and aluminum has the density of a third compared to steel. Excellent casting, extruding and forming properties, together with great heat transfer characteristics.

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Excellent casting, extruding and forming properties, together with great heat transfer characteristics. Aluminum is not afraid of corrosion and can be polished to a fully reflective grade, very useful in the lighting industry.

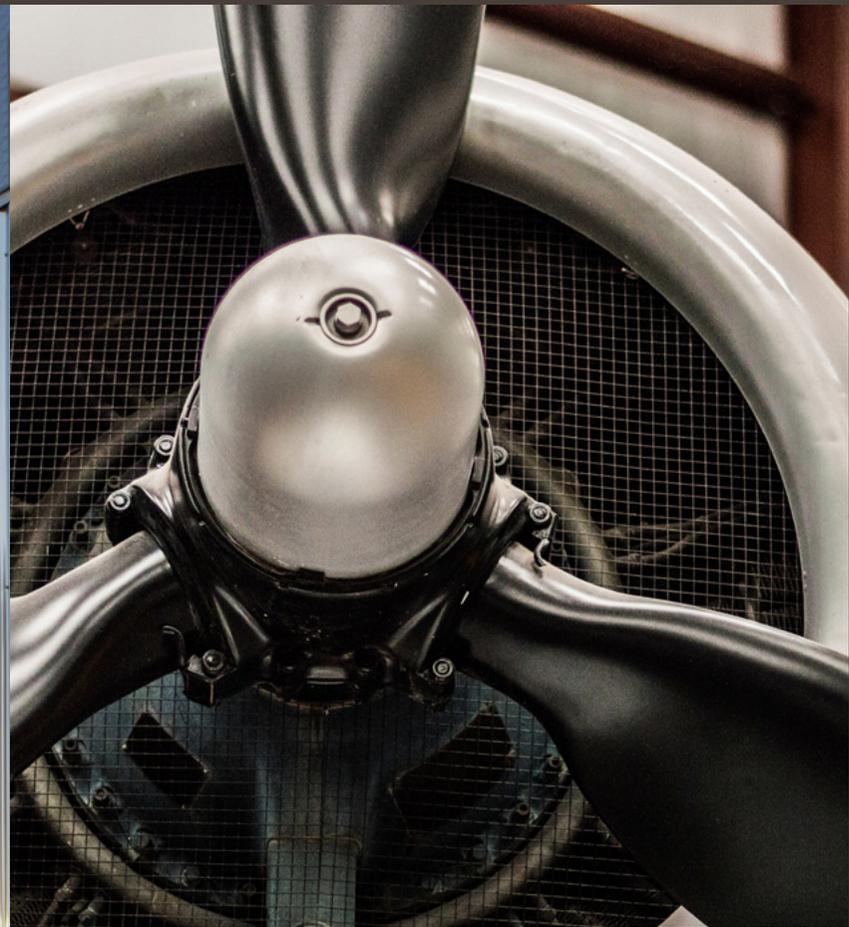
Aluminum is a truly sustainable material, as its **recycling cycle** is one of the most effective.



ALUMINIUM

Architecture is another field in which aluminum performs brilliantly: its specific strength, resistance to corrosion and versatile surface make it the ideal material both for structures and cladding.

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+ Aerospace and automotive industry have greatly enjoyed aluminum alloys and their properties, including the capability of being bonded and not just welded or riveted.



Our Story



In its **50** years of history, Ossida has serviced countless clients belonging to the fields of construction, architecture and furniture. We retain the pride and commitment of a family owned company, together with the managerial style of a structured corporation.

Our facts

12.000 sqm of covered surface

2 production departments, with a total amount of

83 tanks **70** workers **6** tanks for the anodic

oxidation, total amount: **56.000** Ampère;

Chemical brightening up to **4400** mm in length.

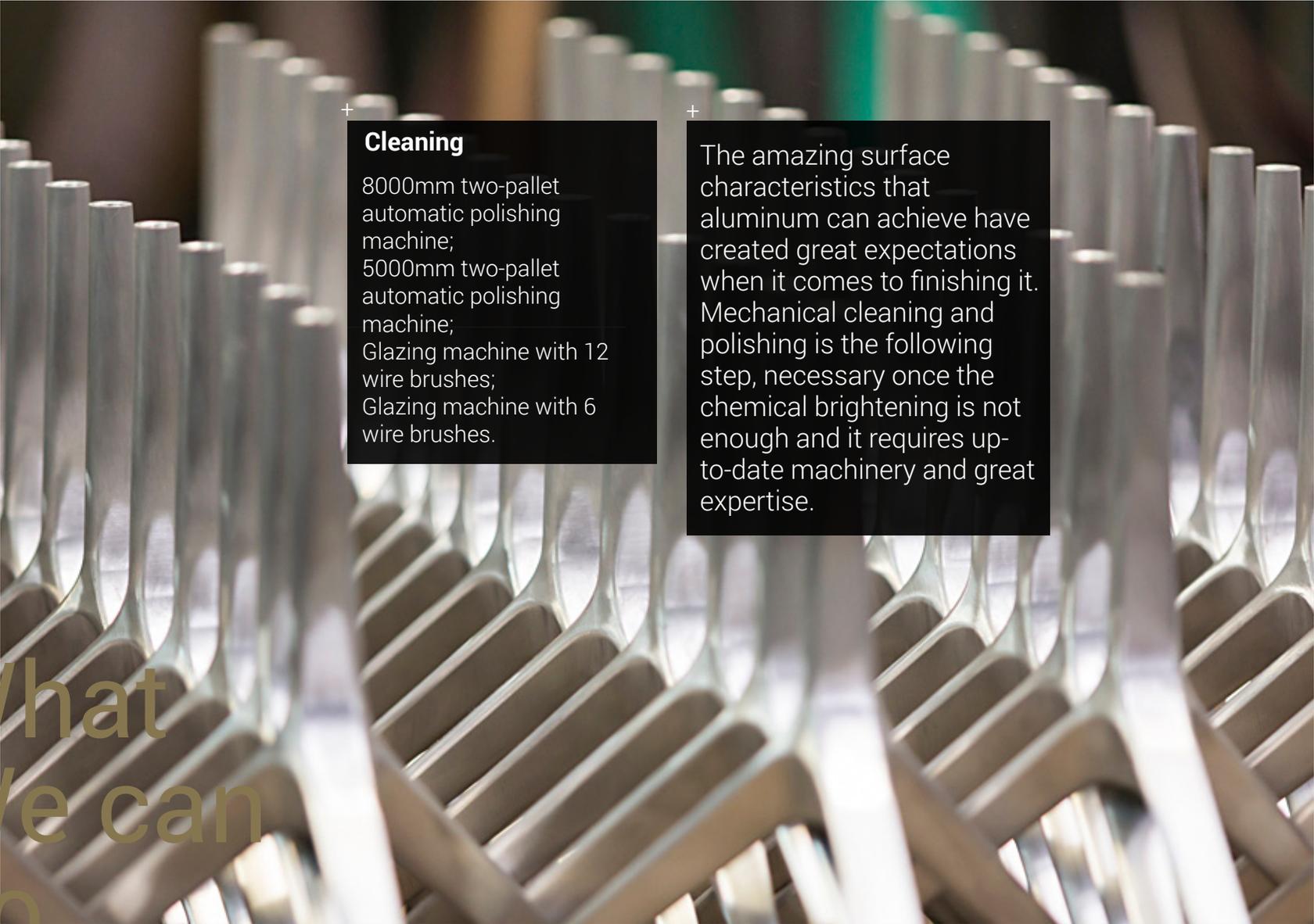
Environmental care:

Qualanod Certification
Iso 14001 Certification

What We can do

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Cleaning
Brightening process
Anodic Oxidation
Quality control
Packaging



Cleaning

8000mm two-pallet automatic polishing machine;
 5000mm two-pallet automatic polishing machine;
 Glazing machine with 12 wire brushes;
 Glazing machine with 6 wire brushes.

The amazing surface characteristics that aluminum can achieve have created great expectations when it comes to finishing it. Mechanical cleaning and polishing is the following step, necessary once the chemical brightening is not enough and it requires up-to-date machinery and great expertise.

What
 We can
 do

What We can do

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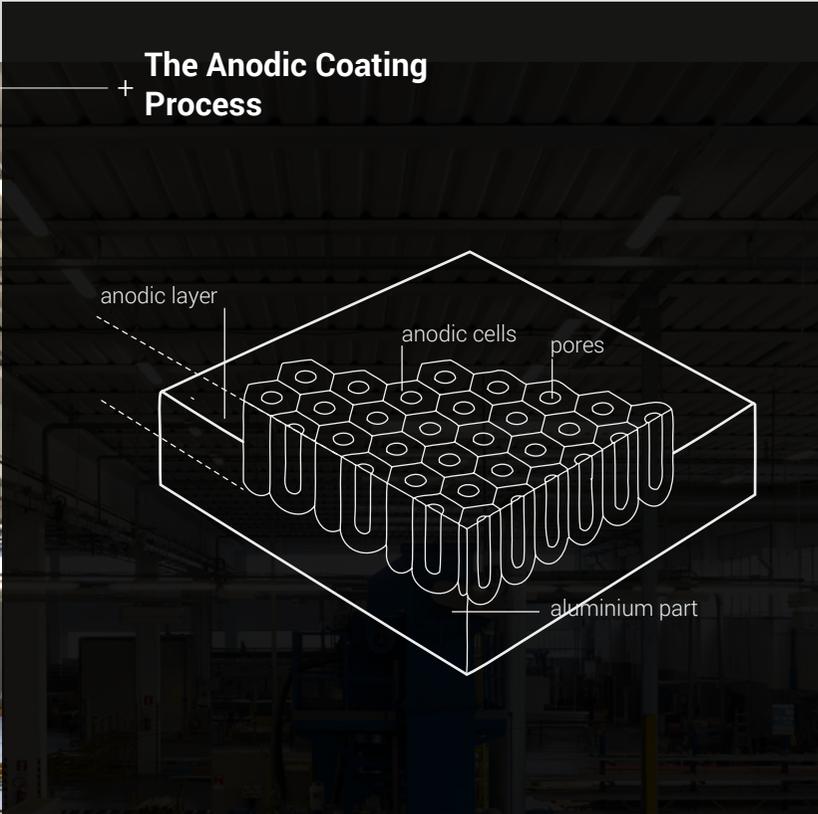


Brightening Process

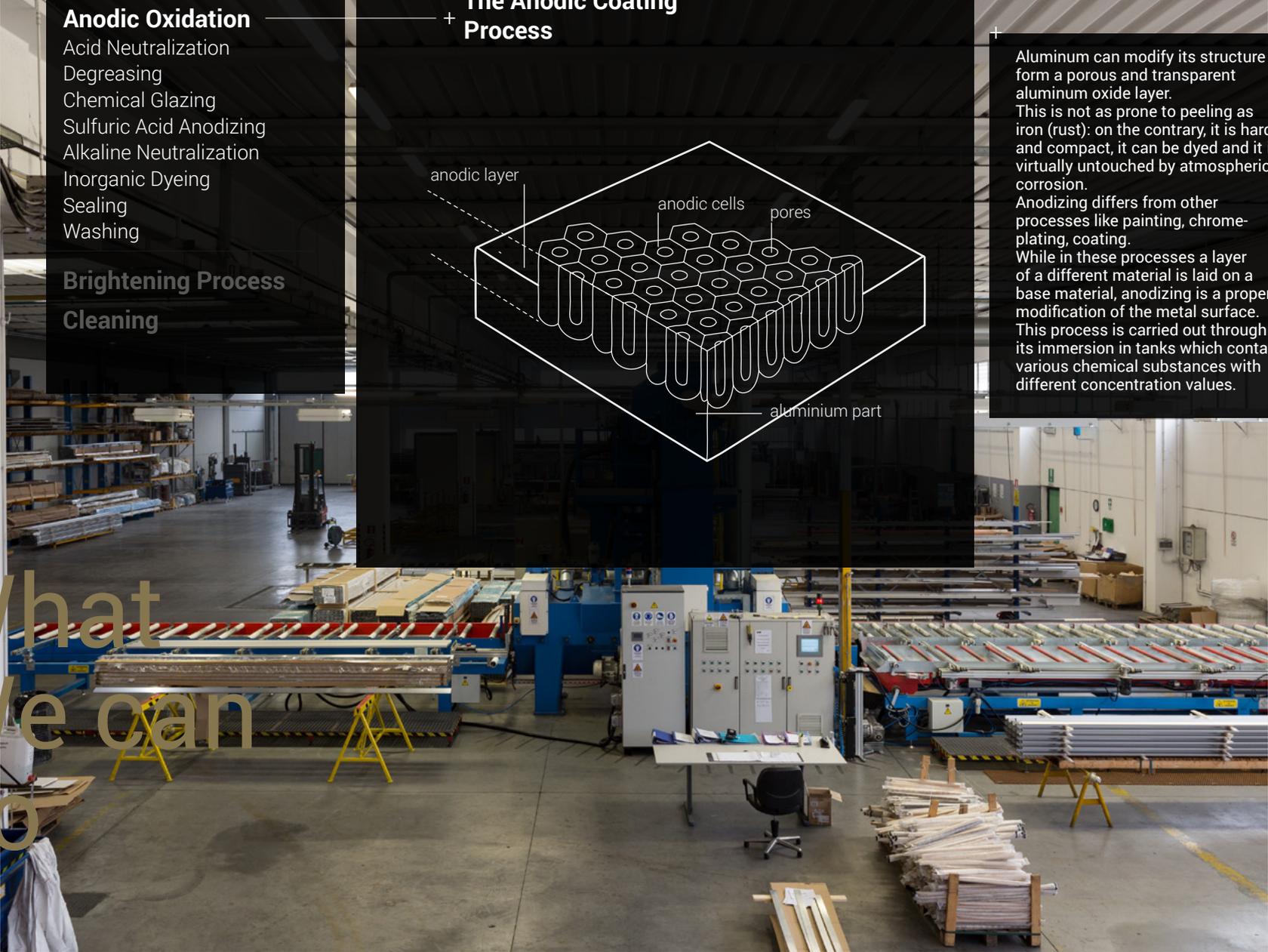
- Acid neutralization
- Chemical Brightening
- Rinse
- Decoppering
- Oxidation
- Colour
- Fixing
- Drying
- Washing

Chemical brightening is a treatment which increase the specularity and the brilliance of aluminum by flushing the microscopic roughness on its surface. In order to chimically level any chemical imperfection of the surface is essential that the solution in which the aluminium is immersed has an **"attack rate"** of the peaks faster than in the valleys.

- + **Anodic Oxidation**
- Acid Neutralization
- Degreasing
- Chemical Glazing
- Sulfuric Acid Anodizing
- Alkaline Neutralization
- Inorganic Dyeing
- Sealing
- Washing
- Brightening Process**
- Cleaning**



Aluminum can modify its structure to form a porous and transparent aluminum oxide layer. This is not as prone to peeling as iron (rust): on the contrary, it is hard and compact, it can be dyed and it is virtually untouched by atmospheric corrosion. Anodizing differs from other processes like painting, chrome-plating, coating. While in these processes a layer of a different material is laid on a base material, anodizing is a proper modification of the metal surface. This process is carried out through its immersion in tanks which contain various chemical substances with different concentration values.



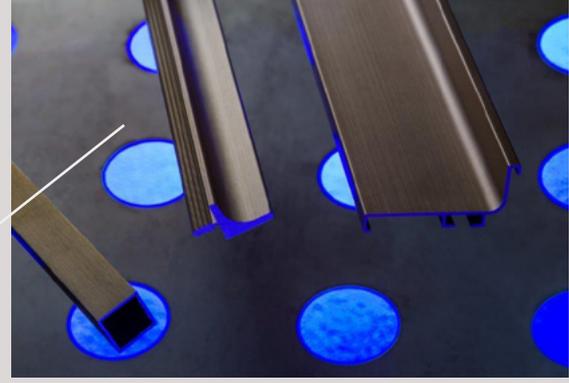
What
We can
do

What We can do

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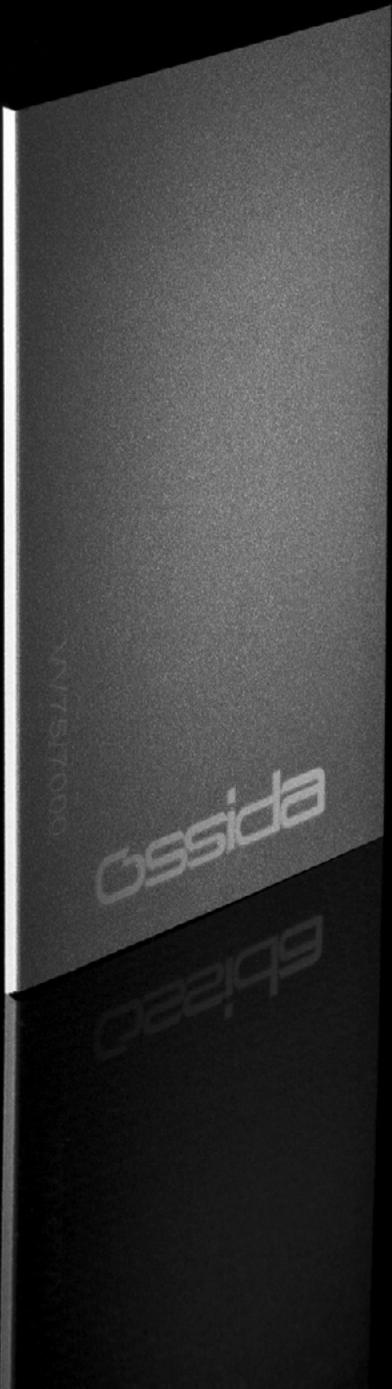
Why Work with us

Prompt response

**Environmental
sensitivity**

**Sophisticated
equipment and
machinery**

**Vasted array
of finished,
unmatched by
competitor**



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