The Sacma levelling machines deserve a separate chapter. True flagship of the Company, levelling machines are used for different type of production areas, but all, depending on the material processed and independently by the small structural differences, they are designed to ensure:

- Speed till 110 m/min
- Width from 1150 mm to 2150 mm
- Thickness from 0.2 mm till 20 mm
- Tensile strength till 1200 Mpa (for sheet with thickness till 3 mm)
- Yield point till 1000 Mpa
- N° rolls: 13 rolls with ø 110 mm, 25 rolls with ø 30 mm

Sacma has always designed levelling machines and has more than 20 different models in order to suit the different area of application. The differences are mainly based on the settings that allow to configure the bridge movement and the different tilting movements in order to obtain levelling sheets with the required flatness.

The level of plasticization obtained can be over the 80% for all the available sizes. The rolls and back-up rolls are supplied by the best producers on the market and the processed material is certified and of first quality. Depending on the use to which they are intended, the rolls are worked superficially in order to minimize the friction and avoid damages on the surface of the processed material.

Our levelling machines can be equipped with a system for a rapid and an automatic levelling set exchange, so that the machine idle time may be less than 10 minutes.

The same can be equipped with levelling rolls set with a different number and dimension of rolls in order to cover the requirements of the market.

The latest generation of levelling machine is specially designed for the Automotive production and allow to level high-resistance material with high tensile strength and yield point.
SACMA LEVELLING MACHINES

All Sacma levellers are conceived, designed and assembled specifically for the different use of our Customers. We level material such as steel, aluminum, stainless steel, prepainted steel, galvanized and high-resistance material. The process is programmed so that the degree of plasticity is more than 80% and in a way that the machine needs little maintenance. Levelling machines can be also equipped with systems for manual or automatic levelling set rolls replacement.
1 Detail of a levelling set rolls at the exit on the stand.

2 - 3 Detail of the rolls and back up rolls of a 6°HI levelling machine.
1-2
Detail of a stand to withdraw the levelling rolls in a levelling machine for a press machinery.

3
Detail of grooved rolls for high-resistance material in the automotive area.
Detail of a levelling machine for thin-gauge material. View of an adjustment system for rolls and back up rolls.

Mirror effect on a perfectly levelled sheet of stainless steel.
1 Levelling rolls set and centralized lubrication system.
2 Entry of the levelling rolls set in the levelling machine.
3 Universal joints of the levelling rolls set at the exit of the levelling machine.
1 Levelling machine for automotive industry for high-resistance material with quick automatic replacement of the levelling rolls set.

2 - 3 Replacement of levelling rolls set.
1. Detail of the levelling machine.
2. Fixing system of felts cleaning device.
Platform for automatic levelling rolls set replacement, view from above during the change operation.
1  Detail of the levelling machine without levelling rolls set.

2 - 3  Details of the universal joints of the rolls.
Details of the guides of the platform for the levelling rolls set replacement. Levelling rolls set at the entry of the levelling machine.