FLOAT GLASS
TECHNOLOGY
TIN BATH
The HORN Tin Bath is the unit used to form float glass according to the highest geometrical and optical requirements.

Complete tin bath consisting of:

- Basic Engineering and documentation
- Steel casing
- Casing refractories
- Graphite built-in components
- Tin bath roof including suspension and heating
- Tin bath bracing
- Media supply equipment
- Tin bath bottom cooling
- Tin bath equipment and machineries
- Special equipment for thick glass production

Tin bath

1. Steel casing
2. Graphite bar
3. Liquid tin (600 – 950 °C)
4. Endless glass bath
5. Refractory
**Tin bath roof including suspension and heating**

The roof consists the refractory lined casing along with roof suspension, heating elements and thermocouples

6. Roof suspension
7. Roof steel construction
8. Roof casing
9. Heating element

**Media supply equipment**

for compressed air, cooling water, cooling air, nitrogen, hydrogen, sulfur and electricity

**Bottom cooling**

The float bath bottom cooling provides a constant steel casing temperature of 120°C
TIN BATH EQUIPMENT

To adjust glass thickness, width, temperature, smooth surface and tin current flow

1. Tweel
2. Hot end cooler
3. Top roller machines
4. Pusher / Fence
5. Pusher / Fence camera
6. Safety barrier
7. Safety barrier camera
8. Exit cooler
9. Sealed lehr hood
10. Dross box

Advantages:
- design according to customers’ specifications
- for the most demanding applications
- highest geometrical and optical quality of the float glass
- high quality material and auxiliary equipment