SOLO Swiss 322

SOLO® Conveyor Belt Furnace

Innovative. Reliable. Precise.
Basic equipment

**FURNACE**
- Muffle designed to resist high temperatures and to allow a rapid conditioning of atmosphere.
- Several possible heating and/or cooling zones according to the production.
- Electrical heating.
- Chimneys for burning gas and environmental protection.
- Choice in gas supply (cracker, generator, mixers, bottles, etc.).
- Protection against oxidation of the muffle during stops and after high operational temperatures.
- Automatic ignition of the protective gas with flame monitoring.
- Flat, mesh or rippled belt, with edges or lipped according to the type of the parts.
- Easy replacement of the heating elements.
  AMS 2750E & Standards ATEX (upon request).

**MATERIAL**
- Stainless steel
- Precious metal
- Copper
- Steel
- Alloys
- Glass
- Ceramics

**PROCESSES**
- Brazing
- Brazing of precious metals or stainless steels
- Tempering
- Hardening of stainless steel with 13% chromium
- Annealing
- Tempering
- Overhardening
- Sintering
- Recrystallization

**ATMOSPHERES**
- Nitrogen
- Hydrogen
- Argon
- Air
- Cracked ammonia
- N2+H2 mixture
- Endothermic gas
**Accessories**

**N₂+H₂ mixer**

**Automatic feeder**

**Water chiller**

**Supervision with PC**

**2 integrated NH₃ crackers**

**Integrated water cooler**

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**PROCESS SECURITY**
- N₂ purging, safety and cycle.
- Flow control for each gas.
- All security for gas injection.
- Safety double valves.

**MAJOR OPTIONS**
- Dewpoint analyser.
- O₂ oxymeter analyser.
- H₂ analyser.

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**HARDWARE**
- Panel 5.7” to 12.1” with touch screen.
- CPU and I/O Siemens.

**SOFTWARE**
- Process regulation and control.
- Security management.
- Alarms in clear text.
- Visualisation and online modification of the process parameters.
- Centralized management of the recipes.
- Parameters set-up of regulation and calibration data.
- Weekly calendar.
- Conveyor belt speed control
- Process value archiving (.csv format) on detachable storage medium

**MAJOR OPTIONS**
- Modem or Internet connection.
- PC connection (tracking, scheduling, performance analysis).
### SOLO Swiss 322

#### MODELS

<table>
<thead>
<tr>
<th></th>
<th>10/80C</th>
<th>20/160C</th>
<th>up to 8000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum temperature (°C)</td>
<td>1150</td>
<td>1150</td>
<td>1150</td>
</tr>
<tr>
<td>Useful width of the belt (mm)</td>
<td>100</td>
<td>200</td>
<td>Up to 800</td>
</tr>
<tr>
<td>Height (mm)</td>
<td>45</td>
<td>70</td>
<td>Up to 200</td>
</tr>
<tr>
<td>Length of the heated zone (mm)</td>
<td>800</td>
<td>1600</td>
<td>Up to 8000</td>
</tr>
<tr>
<td>Section of the channel (mm)</td>
<td>120 x 50</td>
<td>220 x 75</td>
<td></td>
</tr>
</tbody>
</table>

#### Different Sizes

- **Furnace size 10 / 80 C**
- **Furnace size 20 / 200 C**
- **Furnace size 30 / 300**
- **Furnace size 80 / 600**
- **Furnace size 50 / 300**