

Description

Ingot handling system is a complex device for cleaning, temperation and transportation of silicon ingots. The input part of the device is a tilter, which is where the edges of ingots are blunted and cleaned. The tilter system allows the operator to manipulate the ingot with ease. After cleaning the ingot is moved through serrated ridges into the tempering bath. Manipulator lowers the ingot into the tempering bath, where it is tempered to the desired temperature. After finishing of the tempering process the ingot is taken out by manipulator and is put on a palette and transported by roller conveyor through pneumatically controlled EMC tight door into measuring room. The roller conveyor is also supply of tempered Si ingots. At the end of the conveyor is elevator that drops the palette on the transverse line of the next device. Empty palettes are automatically returned by belt conveyor through pneumatical doors into the room with tempering device.

Features:

- stainless steel frame
- pneumatic manipulator of the tempering device
- double-coated tempering bath with fluid circulation, PTFE heater, cooling device, fluid level sensor, automatic replenishing of the tempering fluid
- two-level pneumatic door with coating against EMG radiation, automatic rising after an obstacle detection during closing
- belt conveyor with flexible carriers and leading wedges
- pneumatic elevator
- control panel with PLC with touch screen

Proportions and specification:

Width:	3750 mm
Depth:	5600 mm
Height:	2000 mm
Weight:	1450 kg

