

HT Contact Temperature Conditioning Unit (2 tracks) with transport system and contacting devices

Contact temperature-conditioning - heating - / +150 IU

SBA: Electronics

Application

The HT Contact Temperature Conditioning Unit heats up transmission control units to a temperature of +135 °C and tests them at the end of the temperature-conditioning belt using a contacting device. The control units are automatically transported on workpiece carriers (WPCs) across the unit. Two transport tracks are available for this purpose.

Function

The purpose of the HT Contact Temperature Conditioning Unit is to heat up and test transmission control units (control units with enclosed housing). The unit has two parallel transport belts. The control units are transported on workpiece carriers of 160 x 160 mm.

On both temperature-conditioning belts the control units are heated up from room temperature (min. +22 °C) to +135 °C. After that, the control units are tested in the contacting devices (test stations). One test station is available for each track. Inside the test stations, the plugs of the control units are contacted.

The control units are heated up by means of several temperature-conditioning beams containing liquid heat carrier. For temperature-conditioning the WPCs with the control units are lifted up, so the control units are in contact with the temperature-conditioning beams to allow contact temperature conditioning. Each transport belt has a separate temperature-conditioning system.

Both temperature-conditioning systems are located in a machine unit. The machine unit and two switch cabinets are placed next to the unit.

Special features

The compact contact temperature conditioning unit allows the automatic temperature conditioning and testing of specimens (control units). A short cycle time allows a high output of specimens. The unit can be integrated into a customer-provided product line.

Advantages

The powerful contact temperature conditioning unit allows fast and homogenous heating-up of test specimens. It is highly reliable and has been built by us for various projects. The units are used and sold worldwide.

Technical Data

Temperature range	+70 ... + 150 °C
Highest temperature of temperature conditioning beam	max. +150 °C
Temperature constancy (in time)	± 1.0 K
Specimen temperature after a heating-up phase of approx. 6 min.	+135 °C +/- 5 K
Possible amount of WPCs before contacting (each track)	max. 9 WPCs
Loading of WPC	1 control unit
Cycle time of WPC (with 2 transport tracks)	20 sec.

