



Hot Tool Machines

Hot tool machines with horizontal or vertical NC axis are suitable for welding large area joins or double shells made from thermoplastics.

In hot tool machines, the parts are welded together with the help of mobile heating mirrors. On request we design the machines so that the heating mirror and work piece holders can be changed for different applications.

Applications:

- [Hot plate welding](#), for example:
welding of large area joins or double shells
- Thermoplastics
- Applications in all sectors, mainly in the [automotive industry](#) and domestic appliances

Characteristics and advantages:

- Different standard versions of heated tool welding machines, for example:
 - horizontal type with NC axis
 - vertical type with NC axis
 - vertical type with NC axis and change facility
 - vertical type with NC axis, swivel frame and change facility
- Comparison of desired / actual temperature
- Heating current and temperature monitoring
- Facility for sequential setting of the desired temperature
- Password protected parameter settings (several parameter sets possible)
- Setting positions and speeds at the operating panel
- Setting the cleaning cycle at the operating panel
- Option: change concept for heating mirrors and part holders (tool change supported by the operating panel)

Technical data:

(Example: VS-60/65 type CNC vertical heating mirror welding machine)

Press stroke [mm]	$X_1 = 200, X_2 = 500$
Tool chucking surface [mm]	900 x 550
Hot tool feed	linear/by electric motors
Component transfer	possible for upper part fixture
Heating element size [mm]	700 x 400
Hardware	SIEMENS S7-315-2DP Profibus SIEMENS MP277, Touchpanel 1 or 2 8-channel Profibus servo controlled heating regulators

