



### Maintain Temperatures on

- › Assembly robots
- › Pumps, valves, pipes
- › Dosing machines
- › Glue guns

## Maintaining Temperatures for Safe Processes



Adhesive technology is replacing welding as a production method in the automotive industry: 70% of all assembly processes in car production involves high high adhesives that speed up production and lower costs while making the car frame and body lighter and safer. Adhesives types include single and compound glues, polyurethanes and epoxy resins, as well as structural adhesives. Temperature maintenance of these adhesives is a crucial aspect of ensuring a smooth work flow.

### Systems in the automotive industry:

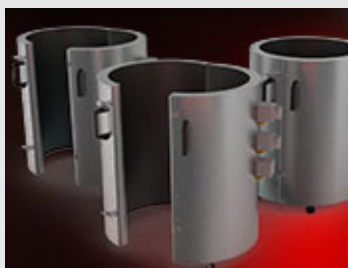
- › Flexible heated hoses
- › Tailor-made heating jackets
- › Drum heaters (side and bottom types)
- › Pipe and vessel heating



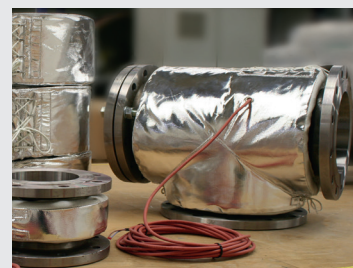
### Electrical Heat Tracing Systems for the automotive industry



Heated hoses



Drum heaters



Heating jackets

# Complete Solutions from a Single Source

## Full range of EHT expertise from eltherm

With many years of experience working with leading suppliers and automobile manufacturers, eltherm offers specialised heat tracing solutions for the entire range of automotive adhesive applications. The objective is to ensure smooth work flow, trouble-free operations and high productivity at a supreme level of quality and reliability – achieved with

- › Drum heaters
- › Heated containers for adhesives
- › Custom-engineered heating jackets for pumps, valves and dosing equipment
- › Highly flexible heated hoses on gluing robots
- › Heated hoses for manual glueing
- › Supply lines for glue guns

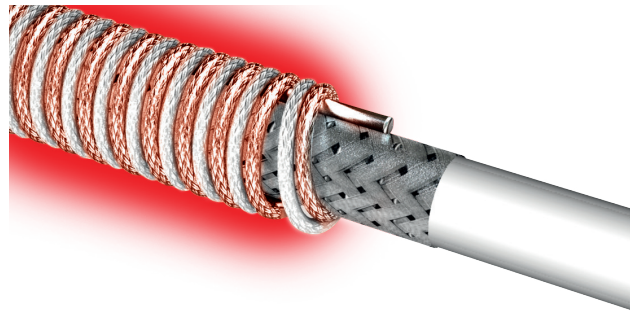
## Criteria for heated pressure hoses

- › To maintain an exact temperatures for different types of adhesives
- › To ensure flowability and workability throughout the production process
- › To prevent instruments and plants from clogging
- › To ensure trouble-free flow of materials in complex assembly processes
- › To follow the fast motions of automatic assembly steps while maintaining reliable function in tough industrial conditions.

Since coating in automotive environments can be seriously disrupted by even the slightest hint of silicon, eltherm operates a silicon free (LABS-free) production lab for automotive heated hoses and heating jackets.

## Special technical advantages:

- › Evenly spaced heating cables within the heating hose ensure homogenous heat distribution throughout the hose.
- › This technical feature ensures a longer operational life span of automotive assembly equipment, even in where bending elasticity is required.



- › A unique glass-fibre spacer prevents hot spots in moving applications with greater bending strain, as contact between the heaters is avoided (see illustration).
- › In addition, the system can be fitted with a specially reinforced heating cable for exceptional strenuous production steps.
- › The insulation is adapted to the required process temperature and an outer jacket, thus completing the system for ready to use connection.

