

Case study: **Soldering LEDs**



Precise configuration and hot air soldering even when time is tight

Our customer supplies the flashing warning lamp units for emergency and rescue vehicles, e.g. flashing blue lamps for police and ambulance vehicles and flashing yellow lights for building site and recovery vehicles. The task was to build a system that would assemble and solder faster and more precisely than had previously been the case.

HAPRO then developed and produced an installation in which the individual lamp units are positioned on a carrier plate and fed under a specially designed nozzle arrangement. At that point, precisely positioned hot air stamps are used to solder all the LEDs onto the circuit board at the same time. A two kW air heater and a high pressure blower were used.

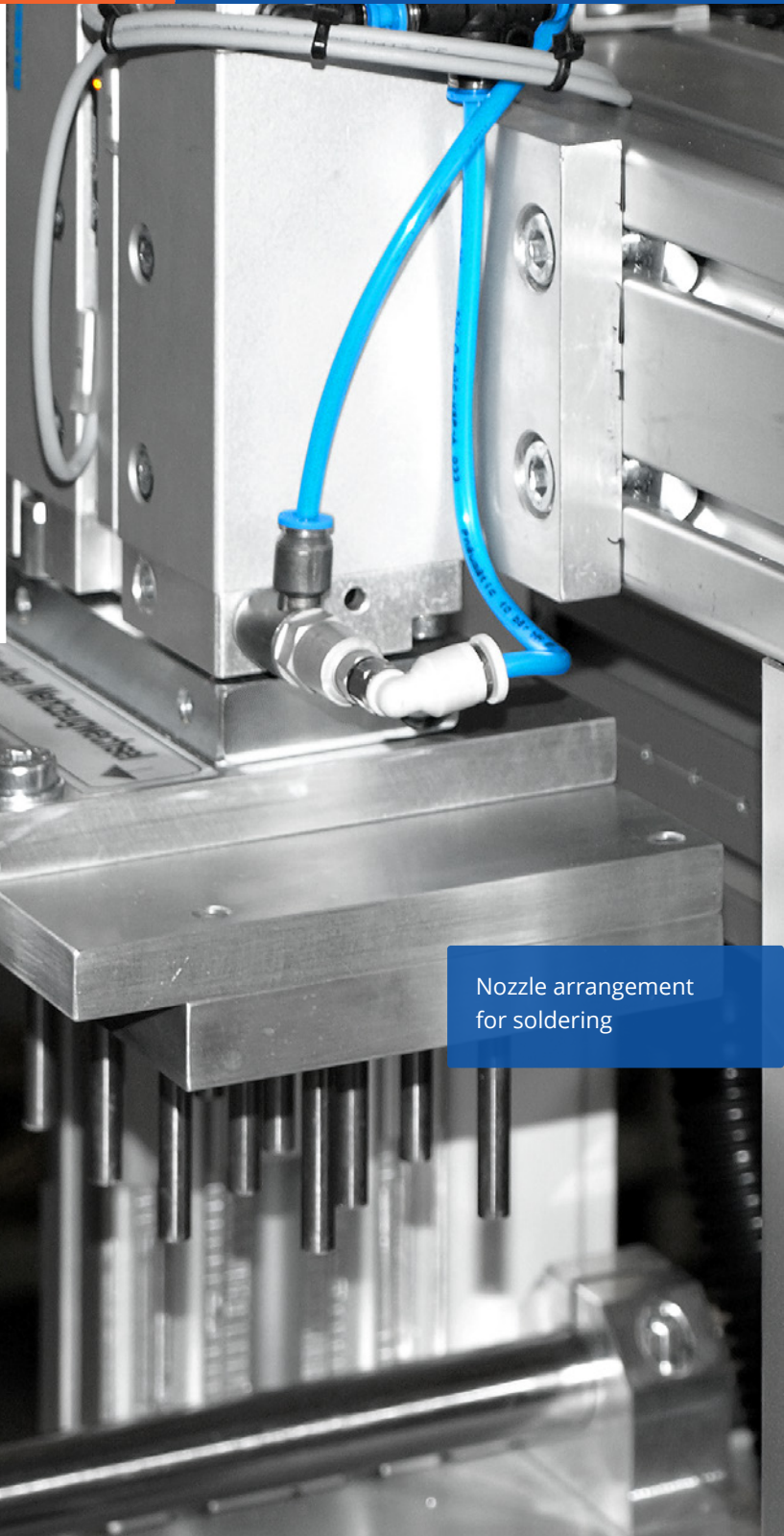


Printed circuit board
clamped in place

HAPRO Case study:
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Fully configured
circuit board



Nozzle arrangement
for soldering

Case study:

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Technical data of the installation

Air heater

Output: 2 kW

Blower

High pressure blower



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