



Mühlbauer

High Tech International

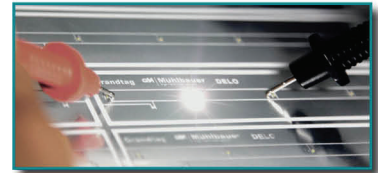
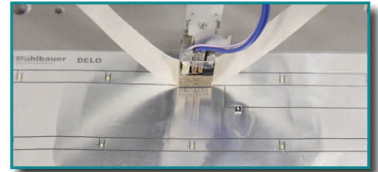
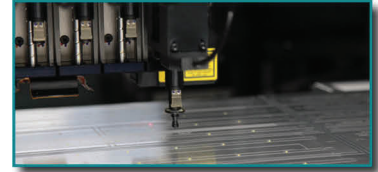
SMART AND FLEXIBLE ELECTRONICS

INNOVATIVE REEL TO REEL MANUFACTURING SOLUTIONS
FOR MULTICOMPONENT APPLICATIONS



REEL TO REEL LED PRODUCTION LINE

Wide and narrow web solutions for Flexible Intelligence



MCL - Multi Component Line

Multi row, up to 16 000 UPH

optional up to 25 000 UPH

Flexible electronics

Multi component line "MCL"

- NEW: ALL IN ONE production solution
- Adhesive apply (either jetter via dispenser or printing)
- Conductive glue (such as ACP or ICP) or solder paste
- SMD component assembly, i.e. electronics, sensors, connectors, batteries, lenses or RFID
- Placement accuracy of +/- 50µm
- In line curing (thermodes or reflow oven)
- Glop top unit for encapsulation
- Integrated test station
- Output slitting (optional)
- Wind up with support of spacer tape

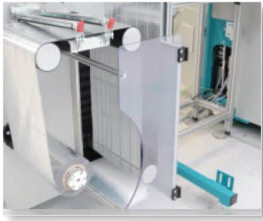
UPH



PROCESS OVERVIEW

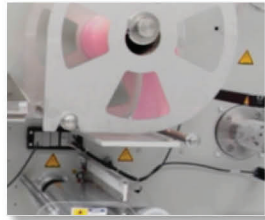
Unwinder

Aluminium on PET
Max. width: 350 mm



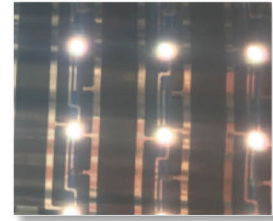
Upwinding

Optional slitting and
spacer tape



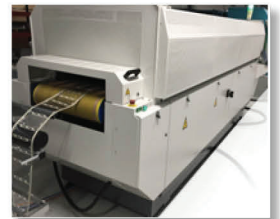
Flash Test

100% process control
GO / NOGO optional
light test



Reflow Curing / Drying

Up to 350C
Min. pitch: >4mm
Used for ICP



Screen Printing

ICP Glue
Solder Paste



**Flexible and
Customized Line
Configuration**



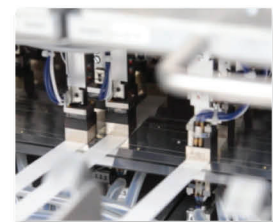
Dispensing

Epoxy or Solder



SMD Attach

With up to 32 or
64 Feeder bank



Thermode Curing

Local curing at the
component
Min. pitch: 15 x 20 mm
Used for ACP

CONTACTS WORLDWIDE



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