

TPG 200t3

Integrated Back-End System
with Tri-Temp Test Function
for Axial Leaded Components



The TPG 200t3 is a fully automatic integrated back-end processing system for axial leaded components. It is the ideal solution when it comes to test, laser mark, sort and tape components such as Hall sensors and transistors in TO packages at high speed and with unprecedented precision. Components can be tested at low temperature, ambient temperature and high temperature. Up to 4 components can be tested simultaneously at each test station. The modular design make the TPG 200t3 the back-end processing system of your choice.

Back-End Technology

With the Geringer TPG 200t3, customer requirements for accuracy and high speed in back-end processing of electronics component can be achieved better than ever.

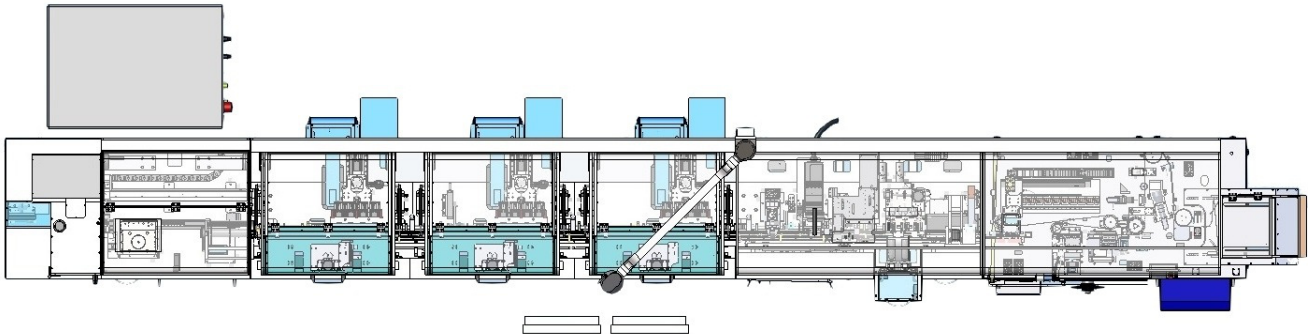
- High throughput
- Automatic strip feeding from magazine
- Tri-Temp testing
- Laser marking
- Vision inspection
- Lead forming
- Sorting
- Taping



Innovative production equipment for the semiconductor industry

TPG 200t3

Integrated Back-End System for Axial Leaded Components



Technical Data

| | | |
|------------------------------|--|--|
| Application | axial leaded components (SOT-195, TO-92, boxed capacitors, film capacitors, crystal oscillators, etc.) | |
| Component input | lead frames from slot magazine handling system with automatic change over | |
| Process stations | punching out of tiebars and dambars, lead trimming low temperature test at -45°C (Kelvin contacts) ambient temperature test at $+25^{\circ}\text{C}$ (Kelvin contacts) high temperature test at $+170^{\circ}\text{C}$ (Kelvin contacts) deflashing laser marking vision inspection (surface, mark and lead) component singulation sorting (2 bins standard) lead forming (optionally) taping (ammopack) | |
| Capacity | depending on test time (e.g. 7,200uph @ 300ms test time) | |
| Taping specification | Component pitch $P0 = \pm 0.05\text{mm}$ Taping height $H = \pm 0.25\text{mm}$ $H1 = \pm 0.25\text{mm}$ $H2 = \pm 0.25\text{mm}$ Carrier tape $W = \pm 0.5\text{mm}$ Adhesive tape $W0 = 6.0\text{mm}$ Reel sizes adhesive tape $\varnothing 250\text{mm}$ carrier tape $\varnothing 600\text{mm}$ component reel $\varnothing 360\text{mm}$ max. Ammopack size max. 340mm x 340mm x 55mm | |
| Dimensions, weight (approx.) | 960mm x 7,200mm x 2,040mm (width x length x height) excluding testers and chiller (700mm x 1,000mm x 1,300mm), 3,500 kg | |

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