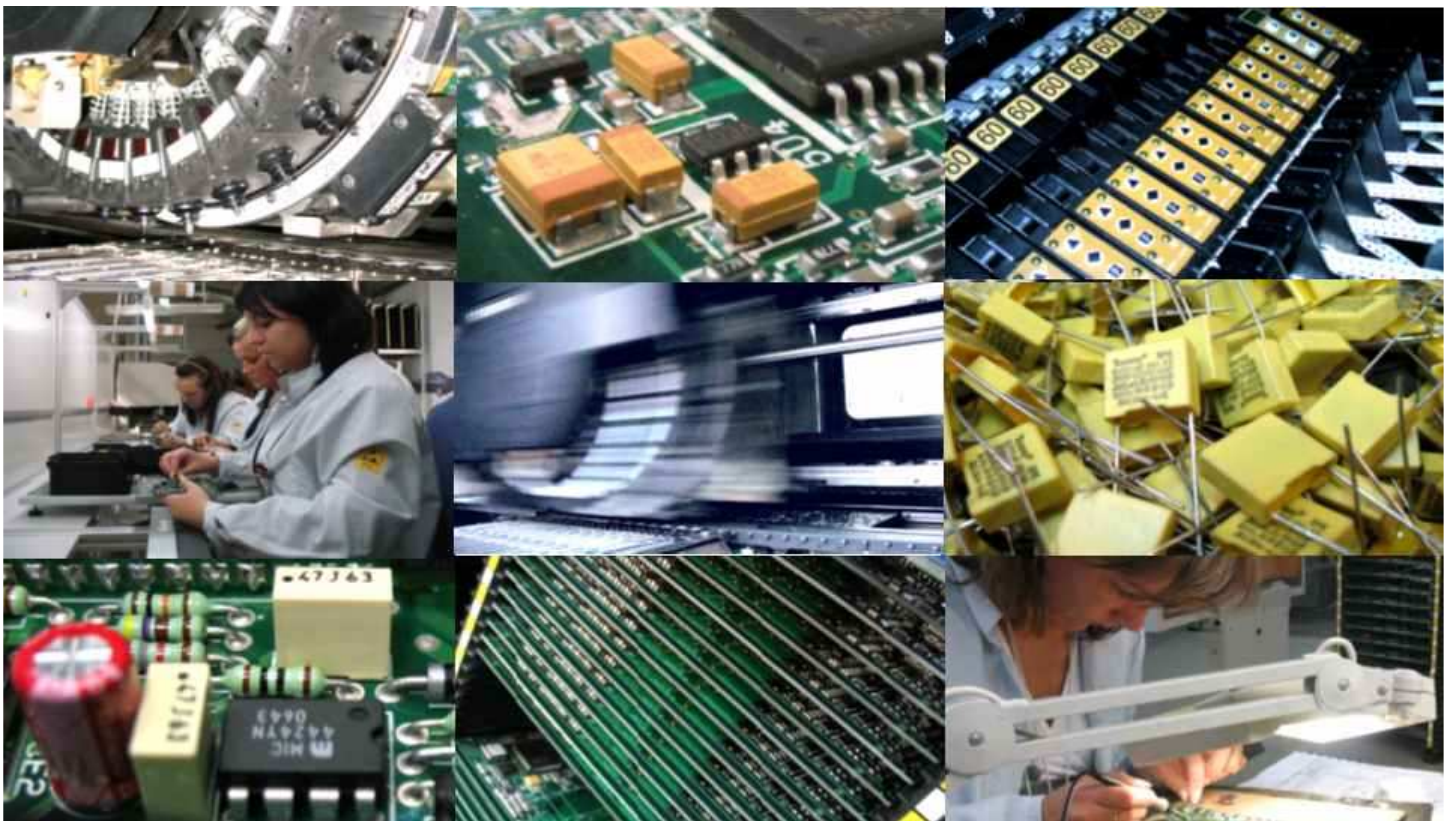




assembly capabilities services

January 2011





DGTTRONIK

Dear Business Partner

Investment in new machines brought us to a higher level of PCBA quality. We hope that it will improve also your competitiveness by increased quality of your products manufactured in DGTronik. Let me present some facts and pictures of our modern SMT lines.

*Adam Szostek
Sales Manager*



**Technology
Processes
Services**

- Automatic assembly on 2 modern SMT lines
(assembly capability from 0201 to fine-pitch 0.4 mm IC)
- Semi automatic assembly on prototyping/small batch lines

- Automatic Optical Inspection
- Jtag tests , Boundary scan tests
- Functional tests, other tests on demand

- SMT assembly with glue or solderpaste (with template or dispenser)
- SMD elements glueing and wave soldering
- SMD elements reflow soldering
- Double side SMD assembly

- BGA circuits assembly,
- BGA rework,
- BGA reballing (outsourced),
- X-ray Inspection (outsourced)

- Wave soldering through-hole assembly
- Through-hole and SMD assembly combination
- Complementary manual assembly
- Press fit assembly technology

- Wiring harnesses production (outsourced)
- Conformal coating (outsourced)
- Potting (outsourced)
- Plastic CNC, metal CNC, plastic injection (outsourced)

- Engineering: PCB design, new products design

- Purchasing of components and PCBs

Equipment

1st SMT Line





automatic screen printer
DEK 265 Horizon 02



pick&place double head
machine: Universal Genesis
GC-60 (57000 cph)



pick&place machine:
Universal Advantis AC-72 (14000 cph)
platform tray feeder Universal



reflow oven: Vitronics
Soltec XPM3-1030



Transportation system - Nutek

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Equipment

2nd SMT Line



- automatic screen printer DEK ELA
- pick&place machine: Universal Advantis AC-30L (33600 cph)
- pick&place machine: Universal GSM1 (5000 cph)
- platform tray feeder Universal
- reflow oven: Vitronics Soltec Quantis Pro
- Transportation System Nutek

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Prototype and short series SMT Line

- manual pasta printer
- dispenser CAM-ALOT
- pick&place machine M20
- pick&place machine M15

Manual through-hole assembly lines:

- 12 manual assembly stands
- **RoHS** wave soldering machine: Vitronics-Soltec 6622-Delta
- 6 manual assembly stands
- **Lead** wave soldering machine: Soltec 6621-Prisma
- 30 individual stands for THT and final assembly per shift



One of our manual insertion lines...

Testing and inspection Devices:

- AOI Prüftechnik
- Mantis inspection system
- Ersascope inspection system
- Metcal BGA 3500 rework system
- XJtag environment



Some of our employees are certified IPC specialists...

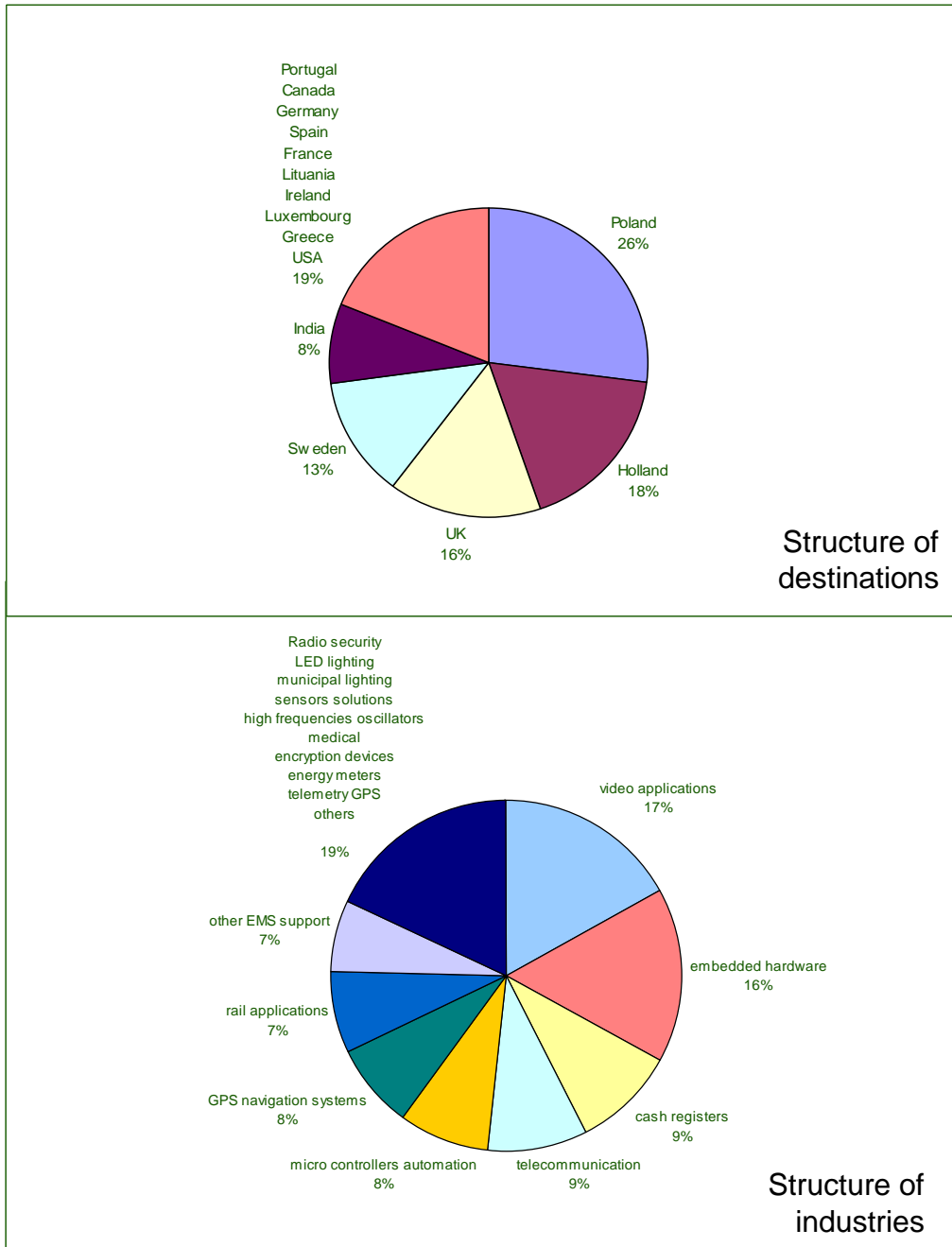


Automatic Optical Inspection Offline Unit

Additional facts

Capacity SMT: 16 mln components per month

Capacity THT: 7000 hours per month



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