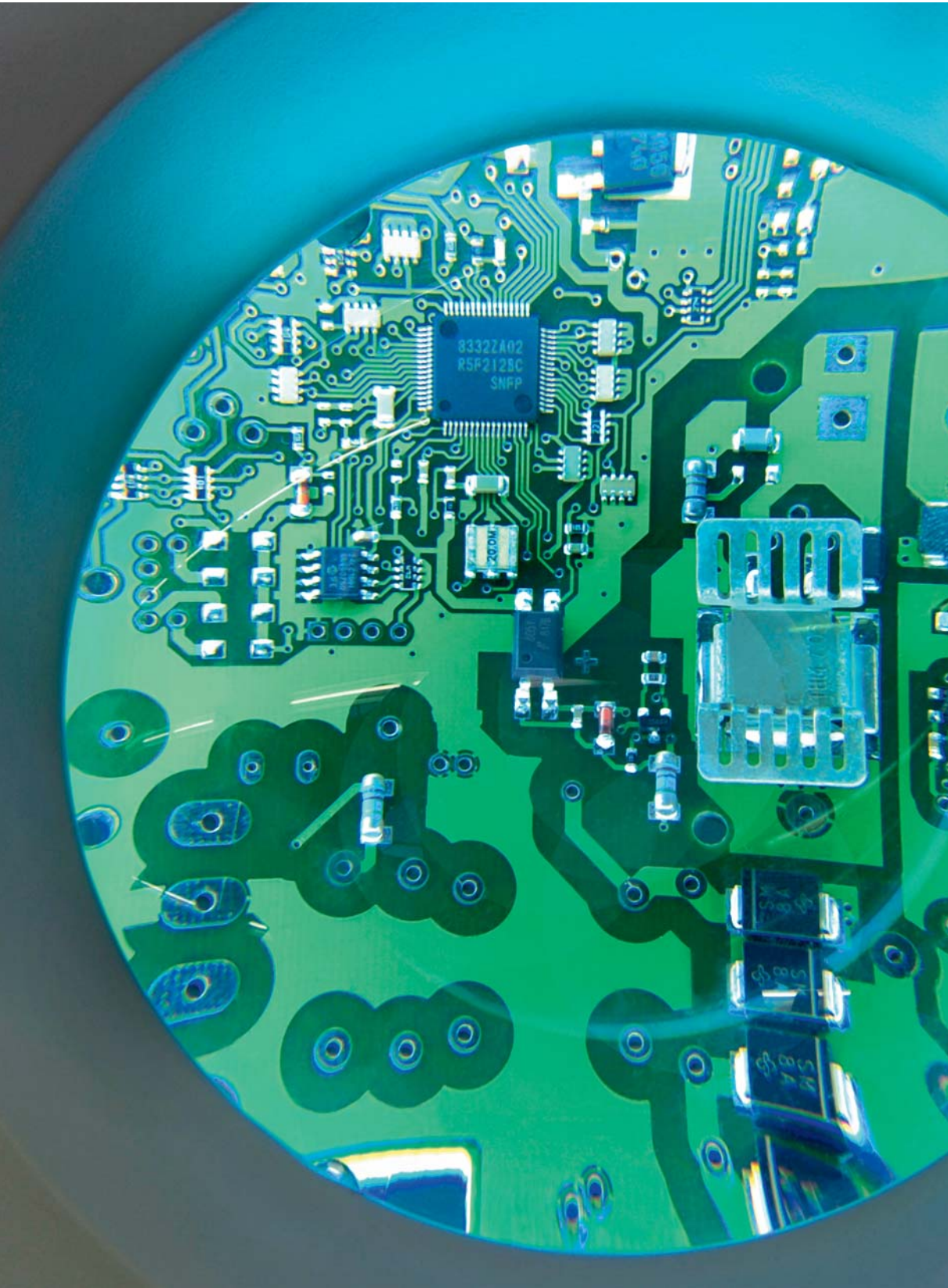




ROBUST | Electronics

Electronic Manufacturing Services



The Company

Founded in 1874

Long tradition with a high level of customer awareness

Financially strong group

Various production sites in CEE

International customer portfolio

ISO 9001 / ISO TS 16949 / ISO 14001

Total Solutions / Synergies with Robust Plastics

Resources

Development

Design

Mould design and manufacture

Mechanical assembly of Box Building

PCB assembly

Prototypes and small batch

Quality assurance

Logistics processing solutions

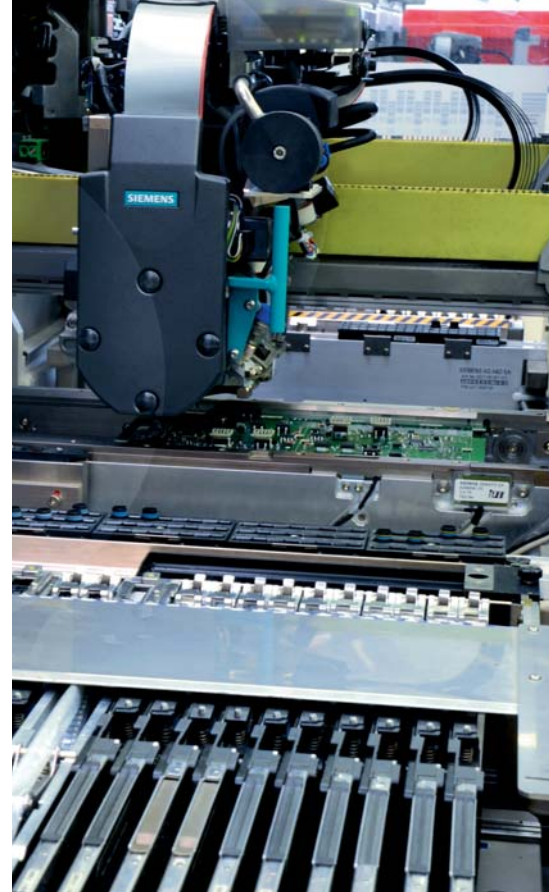
Tight-knit distribution network

Das Unternehmen

- Gründung 1874
- Lange Tradition mit hohem Bekanntheitsgrad
- Finanzstarke Gruppe
- Mehrere Produktionsstandorte in CEE
- Internationales Kundenportfolio
- ISO 9001 / ISO TS 16949 / ISO 14001
- Ganzheitliche Lösungen durch Synergien mit Robust Plastics

Ressourcen

- Entwicklung
- Konstruktion
- Werkzeugentwicklung / -bau
- Mechanisches Assembling von Komponenten und Komplettgeräten
- PCB-Bestückung
- Prototypen und Kleinserie
- Qualitätssicherung
- Logistikabwicklung
- Enges Vertriebsnetz



Production Technologies

PCB Assembly:

2 modern Siemens Siplace
SMA lines (HS60)
04 / 02 components
µBGA

2 solder wave lines
ROHS conform

Flexible assembly lines
for Box Building

Testequipment:

Automatic Optical Inspection AOI

Incircuit Test ICT

Functional Test

Burn In

Other processes:

Repairstation for BGA components

Conformal coating for PCBs

Punching of PCBs

Open for new technologies



Produktions- technologien

Bestückung:

● 2 moderne Siemens Siplace
SMD Linien (HS 60)
04 / 02 Komponenten
µBGA

● 2 Schwallötanlagen
ROHS konform

● Flexibel adaptierbare Montagelinien

Prüftechnik:

● Automatische Optische Inspection AOI

● Incircuit Test ICT

● Funktionstest

● Burn In

Weitere Prozesse:

● Reparaturstation für BGA Bausteine

● Schutzlackieren von Leiterplatten

● Stanzen von bestückten Leiterplatten

● Offen für neue Technologien

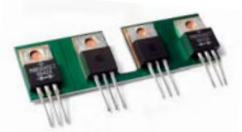




LCD Signal Board
LCD Signal Board



LCD-TV
LCD-TV



Power-Module (IMS-Board)
Power Moduls (IMS Board)



DVB T Scart Card
DVB T Scart Card



Set Top Box PCB
Set Top Box PCB



Set Top Box
Set Top Box



Powerline-Module PCB
Powerline Moduls PCB



Powerline-Module
Powerline Moduls

Kundenreferenzen

Automotive:

- **Epcos**
Beleuchtungstechnik für KfZ
- **Lear**
Power Module
- **Haldex**
Elektronik für Getriebesteuerung

Weiße Ware:

- **Whirlpool**
Elektronik für Mikrowellenherd

Industrial:

- **Ubitronix**
Powerlinemodul für elektrische Zähler

Consumer Electronics:

- **Technotrend AG**
Set Top Boxes
- **Minerva LCD TV**

Customer References

Automotive:

Epcos
Interior Lightning for Automotive

Lear
Power Moduls

Haldex
Electronics for Gearboxes

White Goods:

Whirlpool
Electronics for Microwave Ovens

Industrial:

Ubitronix
Powerlinemodul for Electric Metering

Consumer Electronics:

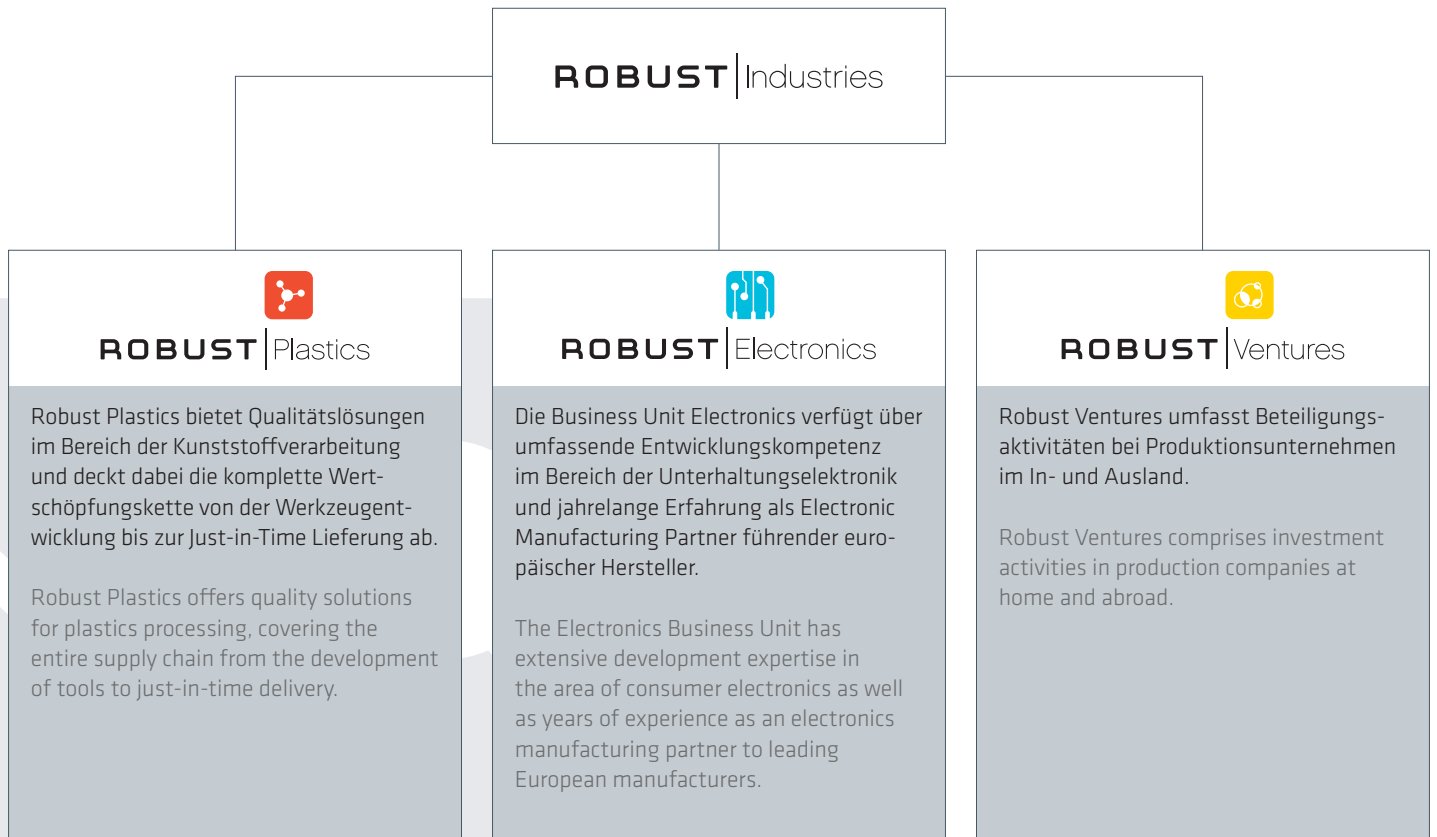
Technotrend AG
Set Top Boxes

Minerva LCD TV



Business Units – für ganzheitliche Lösungen

Business Units – for Complete Solutions



Über die gesamte Wertschöpfungskette

Covering the Entire Supply Chain

	Service Line	Automotive Solutions	Packaging Solutions	Recycling Solutions	Consumer Electronics	Electronic Manufacturing Services	Customized Solutions
Development	Produktentwicklung Product development	■ ■	■	■	■ ■	■ ■	■ ■
	Werkzeugkonstruktion und -bau Mould design and manufacture	■	■	■	■	■	■ ■
Production	Spritzguss Injection moulding	■	■	■	■	■	■ ■
	Hohlkörperextrusion Blow moulding extrusion	■	■	■			■ ■
Service	PCB-Bestückung PCB assembly	■			■	■	■ ■
	Assembling und Finishing Assembling and finishing	■ ■	■	■	■	■	■ ■

A member of Robust Industries



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