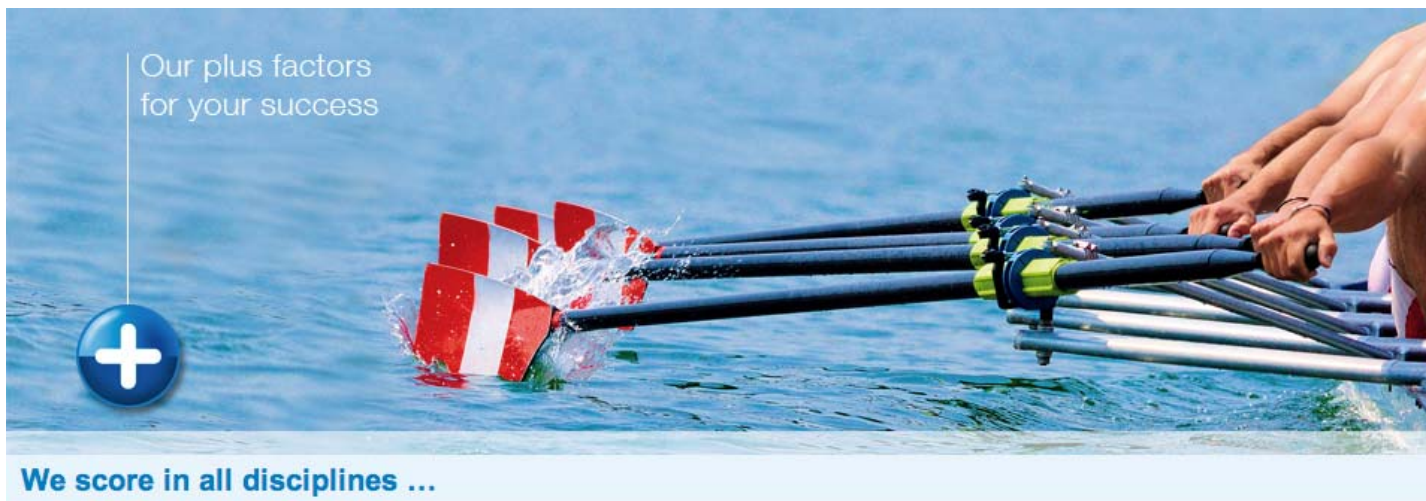




## COMPANY PRESENTATION



-  stamping and forming technology
-  cleanliness and surface technology
-  component manufacturing

- Company  
Guidelines | Mission Statement
- Company development  
Turnover | Employees
- Management system
- Focus  
Branches | Core competences
- Stamped/ formed parts  
Portfolio | Strategy
- Component manufacturing  
Portfolio | Strategy
- Cleanliness and surface technology  
Portfolio | Strategy
- Reference customers

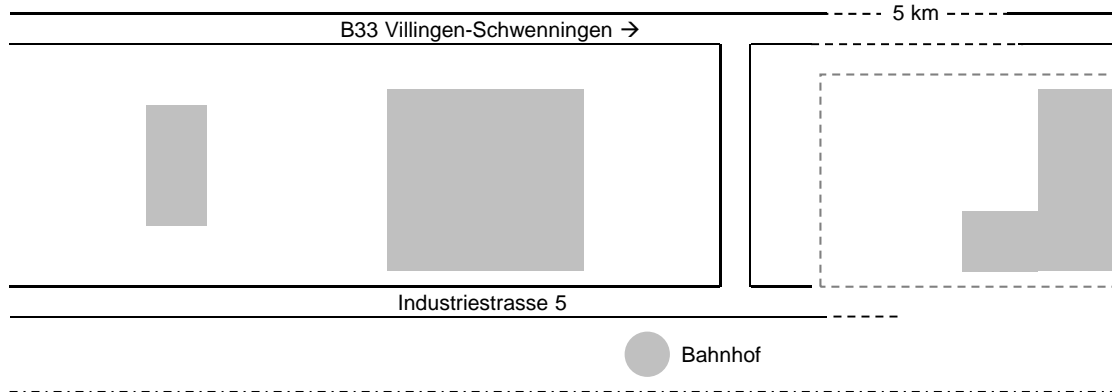
# HMT in St. Georgen



**HMT Plant 2**  
Storage of tools  
and machines  
1.000 m<sup>2</sup>

**HMT Plant 1**  
Stamping and forming technique  
Cleaning and surface technology  
Mechanical components  
12.500 m<sup>2</sup>

**HMT Plant 3**  
Expedition warehouse  
2.000 m<sup>2</sup>  
Expansion area  
10.000 m<sup>2</sup>



<b>HMT total:</b>	<b>15.500 m<sup>2</sup></b>
→ Plant 1	12.500 m <sup>2</sup>
→ Plant 2	1.000 m <sup>2</sup>
→ Plant 3	2.000 m <sup>2</sup>

## 1983

Management Buy-Out from DUAL

1983 – 1993

Expansion in consumer electronics  
Main customer: Thomson with its related brands as SABA, Telefunken, Nordmende, Ferguson, ...

## 1993 – 2000

Change of strategy due to the collapse of consumer electronics in Europe  
→ Takeover of stamping activities from 13 companies, e.g. Siemens VDO (today Continental)

## 2000 – today

Main activities in Automotive

- Audio- and navigation systems
- Vehicle electronics (airbag, sensors)
- Tachographs and road fee systems (Maut) for commercial vehicles
- Cleaning Technology: Services

Other industries

### **HMT – We Score In All Diciplines**

Customer Orientation | Employee Orientation | Success Orientation

**INNOVATION** – We are curious, we have courage for ventures and develop continuously

**SERVICE** – We are in the market. Loyal customers we create by exceptional satisfaction.

**MOTIVATION** – We work with enthusiasm and fun, acting consequently and with dicipline.

**APPRECIATION** – We shape and sustain employment.

**COMMUNITY** – We face each other openly, honestly, with trust and respectfulness.  
We are part of the whole though only together we reach our goals.

**FUTURE** – We create and realize value-based strategies and measures.

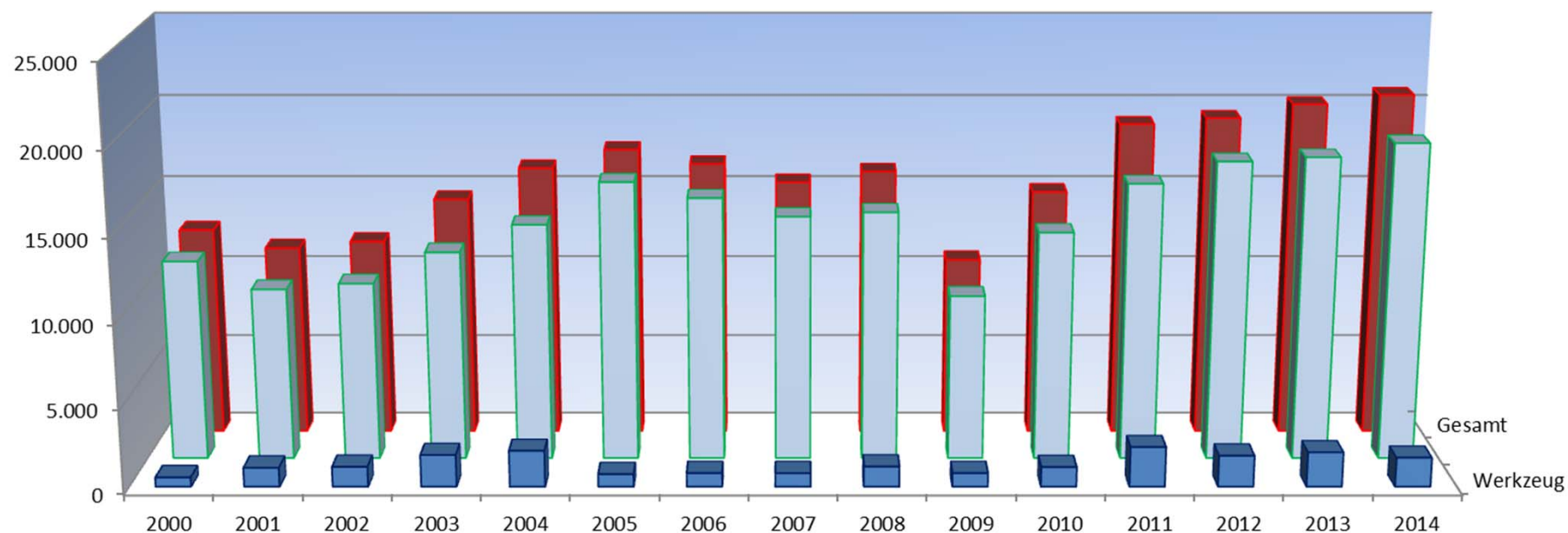
**SUCCESS** – We generate the profit which is essential for the successul development  
and the future of our company.

## Mission statement

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- Continuous increase of market share in Europe in production of stamped, bended and formed parts made from progressive tools with ambitious cleanliness requirements as well as part cleaning as established service provider
- Assurance of advance in the technologies used through further development in order to dissociate market followers and to strengthen our strategic market position
- Cost optimization through usage of automation, lean management methods (Kaizen) and forceful process orientation
- Tracking of technological innovations in order to identify potential market opportunities
- First whom, then what ! – Growing a culture of trust, achievement and discipline
- Sustainable usage of resources respecting people, environment and energy

## Umsatzentwicklung ggü. Vorjahren

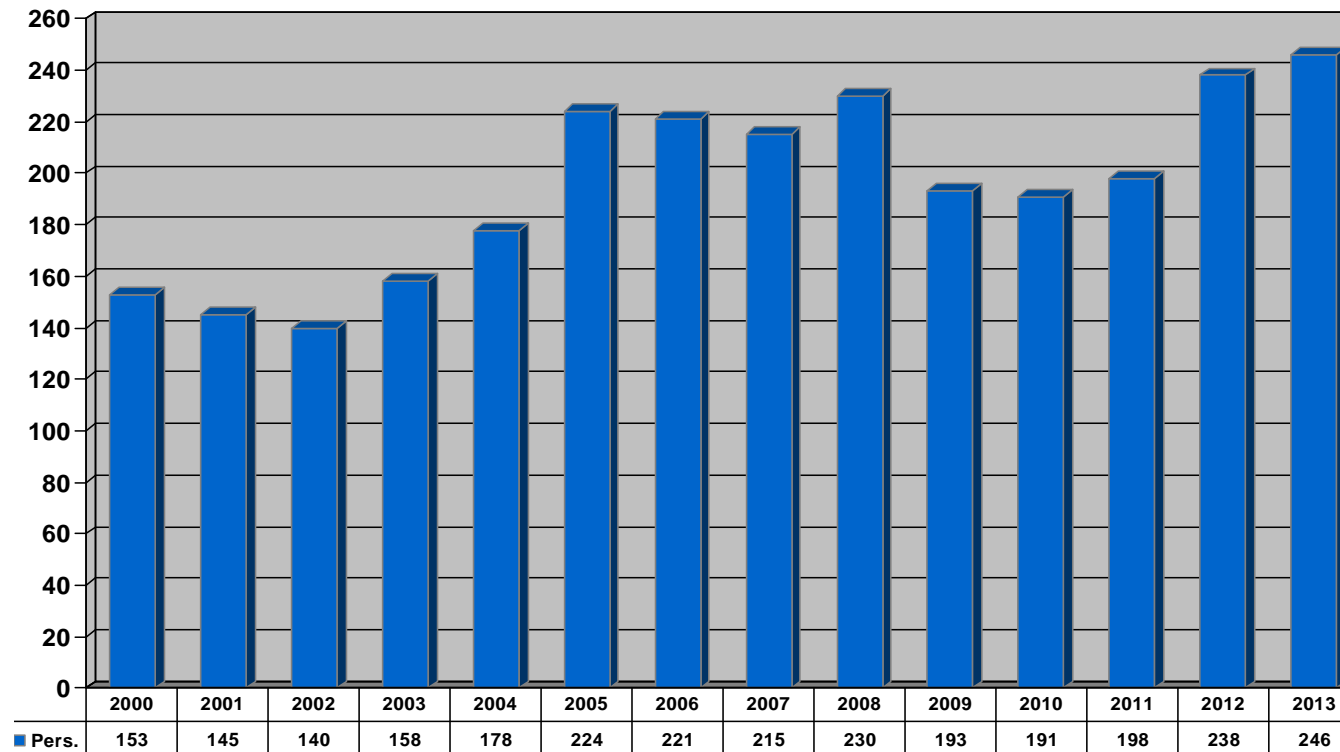


**Plan**

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Werkzeug	562,3	1.142,5	1.202,2	1.906,5	2.163,4	751,1	822,5	812,0	1.212,6	824,1	1.178,9	2.388,5	1.870,0	2.070,0	1.750,0
Produktion	11.984,2	10.300,6	10.645,0	12.531,2	14.173,9	16.706,8	15.758,8	14.658,0	14.911,9	9.892,5	13.703,1	16.603,4	17.926,2	18.173,0	19.000,0
Gesamt	12.546,5	11.443,1	11.847,2	14.437,7	16.337,3	17.457,9	16.581,3	15.470,0	16.124,5	10.716,6	14.882,0	18.991,9	19.359,1	20.186,0	20.750,0

Werkzeug Produktion Gesamt

## Development of employees (yearly average)



Department	Turnover	No.. Empl.	Comment
Stamping/ forming, component manufacturing	70%	100	
Cleanliness and surface technology	30%	146	Part handling mainly

## Certificates / Management System



### Quality management system

- Since March 2000:  
> Certificate ISO 9001
- Since May 2005:  
> Certificate ISO/TS 16949
- Since May 2005:  
> Alignment with environmental standards

### Environmental management system

- Since May 2009:  
> Certificate ISO 14001

### Energy management system

- In preparation  
> Certificate ISO 50001



## HMT branches

**Automotive  
Electronic  
Systems**



**Industry**



**Automotive  
Multimedia**

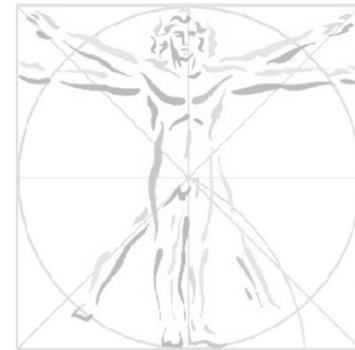


**Electric**



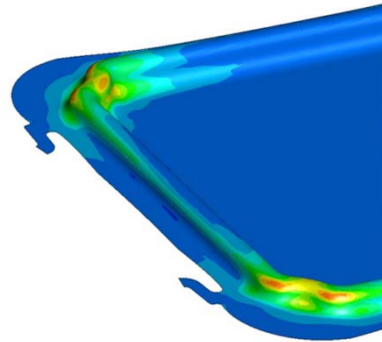
**Automotive  
Others**

**Medical**



## HMT core competences

Process  
development

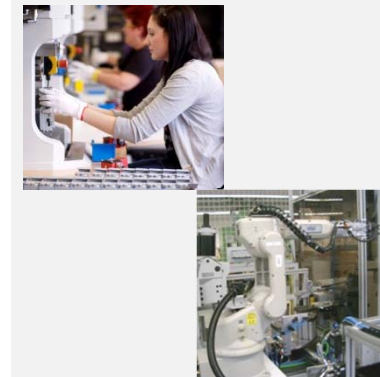


Production  
stamped/  
formed parts



Cleaning  
sheet metal /  
casting

Production  
assemblies



### **Stamping and forming technology, component manufacturing**

- FMEA
- Software supported simulation (FEM) of forming operations under consideration of material, oil etc.
- Technologies: Riveting, clinching, toxing, welding
- Integration of added value into stamping process (assembly inside of stamping tool)
- Automation
- Conception of assembly stations according lean principles

### **Cleanliness and surface technology**

- Development of application-specific cleaning concepts  
→ Particle cleanliness | grease cleanliness
- Pre-treatment before cleaning processes
- Environment, limit evaluation/ feasibility, packaging development
- Analysis (particular, gravimetric, grease)

### Portfolio

- Production on fully-automated presses and hydraulic machines
- Presses from 30 tons to 400 tons and max. 3.000 mm tool length
- Materials from 0,1 mm to 5 mm in thickness (width max. 600 mm)
- Tool-integrated assembly operations through automatic feed-in of parts

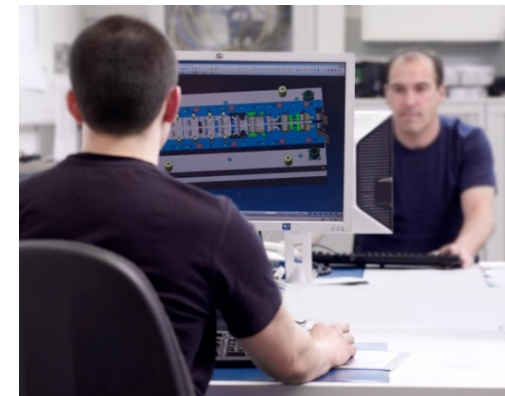
Servo-Press 200 t - 2.000 mm



Die change-over system



Process development



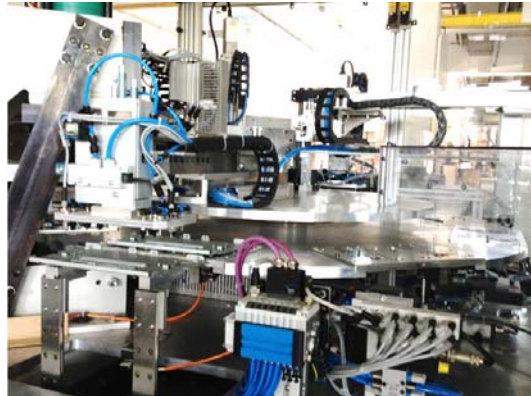
### Portfolio

- Realization of common joining technology (toxing, riveting, clinching, screwing, welding)
- Component manufacturing / assembly (manual as well as fully-automated)
- 100% testing (optic, touching) and part marking (2D code)
- Also hybrid parts metal/ plastic possible

One-Piece-Flow assembly



Round table 100% camera check



Assy automation riveting



### Strategy

- Flow production through process integration following value stream principles and elimination of waste in all steps of production
- Continuous growth in European markets in production and cleaning of stamped, bended and formed parts from progressive tools with high requirements on cleanliness
- Cost optimization by usage of automation and lean management methods



### Portfolio

- Focussing on production remainders such as metal burrs, flitter or oil and grease
- Cleaning equipment:
  - > 7-zone Power & Free shower water cleaning facility with optional high pressure cleaning zone
  - > 5-zone chain conveyor shower water cleaning facility
  - > Tunnel shower water cleaning
  - > integrated dryer
  - > Carbonhydrogen – basket cleaning equipment (for small parts)
- Along cleaning services also particle analysis in in-house lab possible
- Service particle analysis

### Strategy

- Continuous improvement of the cleaning processes developed by HMT
  - Improvement of cleanliness quality
- Expansion of HMTs market position in cleaning services
- Improvement of the environment to avoid non-metallic particles
- Decrease of influence of raw parts
- Supply chain technical cleanliness

## Cleaning sheet metal / casting (cleanliness and surface technology)

Handling area P&F facility



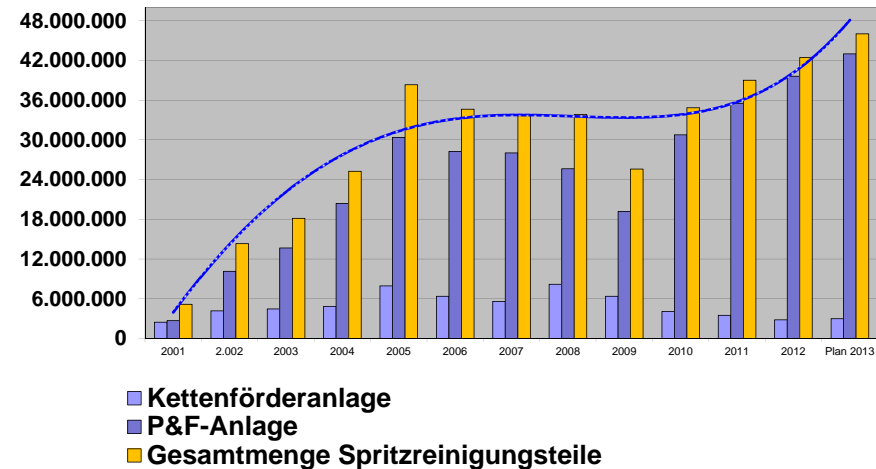
Tunnel cleaning equipment



Laboratory ,technical cleanliness‘



Volume development cleaned parts





### Your advantages

- Projekt Management
  - > We are planning our actions!
- Process Development
  - > We realize production systems in the approach of One-Piece-Flow!
- Simultaneous Engineering
  - > We are there for you!
- Simulation of Forming Processes
  - > We know what we are doing!
- Value stream approach for best cost solutions
  - > Falling finished
  - > Assembly inside of stamping tool
  - > Capable cleaning technology
  - > Automation made by HMT
- Monitoring of production processes – where trust is not enough!
  - > 100% testing
  - > Process monitoring of stamping process



## Reference customers (excerpt)



**BOSCH**



**ERNST**



**MAHLE**

*Driven by performance*



**Endress+Hauser**  
People for Process Automation



**MARQUARDT**



**ABB**



**SAURER.**  
Schlafhorst



**TRW**



**a.m.o.**

**Thank you for your attention !**

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