THE TECHNOLOGY GROUP
FOR SECURITY AND MOBILITY

Capital Markets Day 2014 | Neuss | November 27, 2014
Jochen Hintze, CFO Mechatronics
Agenda

Organization
Locations worldwide
Figures
Sales drivers
Product portfolio
Plant Niederrhein
Mechatronics - A strong pillar of Rheinmetall Automotive
International partner for emission and fuel reduction

Sales 2013: EUR 1,171 mn

Employees: 4,000 (12/31/2013)
Mechatronics - Global presence with 20 locations worldwide

- USA
  - Auburn Hills
  - Greenville
- Mexico
  - Celaya
- Brazil
  - Nova Odessa
- France
  - Paris
  - Thionville
- Spain
  - Abadiano
- Italy
  - Lanciano
  - Livorno
  - Turin
- Great Britain
  - Kirtlington
- Czech Republic
  - Ústí n. L.
- Deutschland
  - Berlin
  - Hartha
  - Nettetal
  - Neuss
- Japan
  - Odawara
- China
  - Shanghai
  - Kunshan
- India
  - Pune
Mechatronics - Significant sales growth since crisis 2008/2009

Sales in EUR million

<table>
<thead>
<tr>
<th>Year</th>
<th>Sales in EUR million</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>956</td>
</tr>
<tr>
<td>2008</td>
<td>848</td>
</tr>
<tr>
<td>2009</td>
<td>679</td>
</tr>
<tr>
<td>2010</td>
<td>882</td>
</tr>
<tr>
<td>2011</td>
<td>1,025</td>
</tr>
<tr>
<td>2012</td>
<td>1,097</td>
</tr>
<tr>
<td>2013</td>
<td>1,171</td>
</tr>
</tbody>
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CAGR = Compound annual growth rate

CAGR +10%
Mechatronics – Planned growth stronger than market growth

Sales in EUR million

Sales 2013

Guidance for the coming years

CAGR > 7%

- Pump Technology
- Solenoid Valves
- Automotive Emission Systems
- Commercial Diesel Systems
- Actuators

1,171
Mechatronics - Sales drivers

- Reduction of emissions
  - Elect. throttle body
- Reduction of fuel consumption
  - Elect. coolant pump
- Increased performance of smaller engines
  - Turbo boost recirculation valve
Year 2000:
168g CO₂/km

Year 2020:
95g CO₂/km
# Mechatronics - Product portfolio

<table>
<thead>
<tr>
<th>Automotive Emission Systems</th>
<th>Commercial Diesel Systems</th>
<th>Actuators</th>
<th>Solenoid Valves</th>
<th>Pump Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>— EGR-valves</td>
<td>— EGR-valves</td>
<td>— Throttle controls</td>
<td>— Electro-pneumatic valves and modules</td>
<td>— Water pumps</td>
</tr>
<tr>
<td>— EGR-modules</td>
<td>— EGR-modules</td>
<td>— Control valves</td>
<td>— Compressor bypass valves</td>
<td>— Oil pumps</td>
</tr>
<tr>
<td>— Exhaust control valves</td>
<td>— Exhaust control valves</td>
<td>— Electric actuation modules</td>
<td>— Hydraulic valves</td>
<td>— Vacuum pumps</td>
</tr>
<tr>
<td>— Secondary air systems</td>
<td></td>
<td></td>
<td>— Coolant valves</td>
<td></td>
</tr>
</tbody>
</table>

- Water pumps
- Oil pumps
- Vacuum pumps
Mechatronics – New plant Niederrhein
Plants Neuss and Nettetal

Merger of two plants to plant “Niederrhein” with 700 employees

Mechatronics Headquarter and R&D still in Neuss with additional 700 employees
Mechatronics - Two plants in different situations...

**Plant Neuss**
- Production plant with approx. 300 employees
- 28 million solenoid valves p.a.
- Worldwide market leader
- Sales 2013 approx. EUR 150 million
- Constant sales growth
- Expiring lease contract

**Plant Nettetal**
- Casting, mechanical processing and assembly with approx. 400 employees
- Sales approx. EUR 60 million
- Avoiding potential underutilization of capacities
- Rising maintenance costs of the infrastructure

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Mechatronics - ... being merged in one new plant

- Merging plants Neuss and Nettetal into new production and development location “Niederrhein”
- Sustainable competitiveness through optimized structures and processes
- High employer attractiveness and, with that, attraction of skilled employees
- Extension of innovation and production competency to a lead plant for development and production of high-tech products
- Buildings and property allow future expansion
Rheinmetall Automotive

**Mechatronics - Product portfolio at plant Niederrhein**

**Truck Components**
- EGR reed valve
- EGR mixer module
- EGR cooler module

**Solenoid Valves**
- Vacuum regulating valve
- Turbo boost recirculation valve
Mechatronics - Overview plant Niederrhein

- 700 workplaces
- 25,000 m² production area
- EUR 230 million sales per year
- 90 trucks / day
- 125,000 solenoid valves / day
- 30 t aluminum / day
- 50 apprentices
- 65,000 m² total area
- 50 apprentices
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