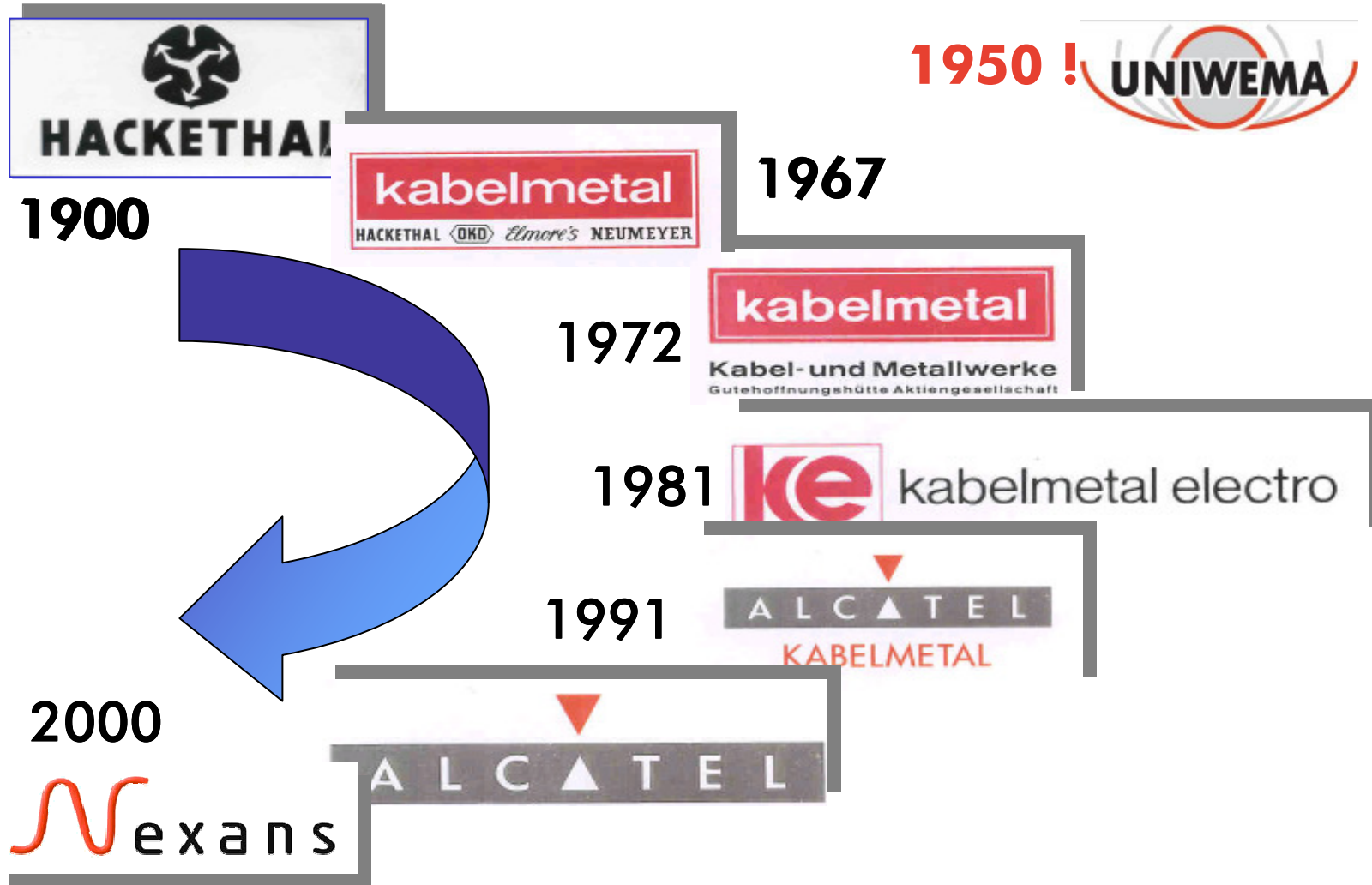


**Latest Developments and
Innovations on our UNIWEMA®
machine for the Production of FIST**

**39th General Meeting of IA Intercable
26th of May 2010; Limassol, Cyprus**

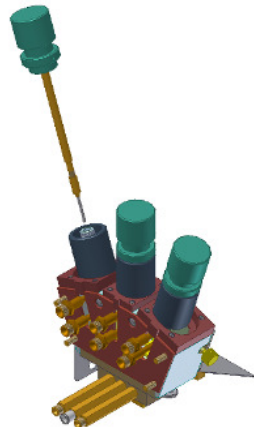
Content

- **Brief Introduction and New Direction of Nexans, “Production Lines and Technology”**
- Nexans, PL&T – the world market leader for FIST machinery
- Latest Developments and Innovations



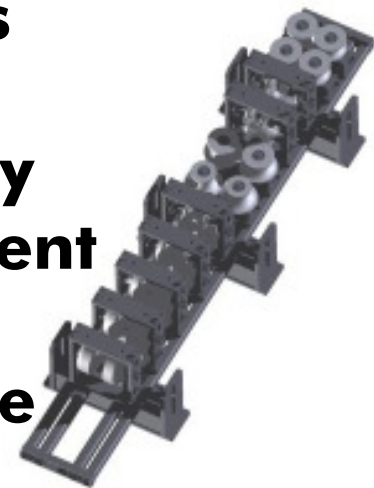
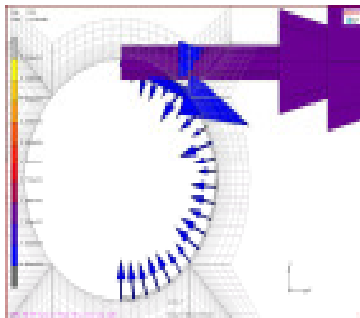
Our core products

- **Special Machinery**
- **Standard UNIWEMA**
- **Automation solutions**
- **Components**



Our key competences

- **LASER and TIG Welding systems**
- **Innovative cross welding units**
- **Engineering, e.g. feasibility studies, process development**
- **Technical service on-site**



Content

- Brief Introduction and New Direction of Nexans, "Production Lines and Technology"
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**We are the world
market leader for
FIST machinery**

**Delivery of
world-wide
16 production lines**

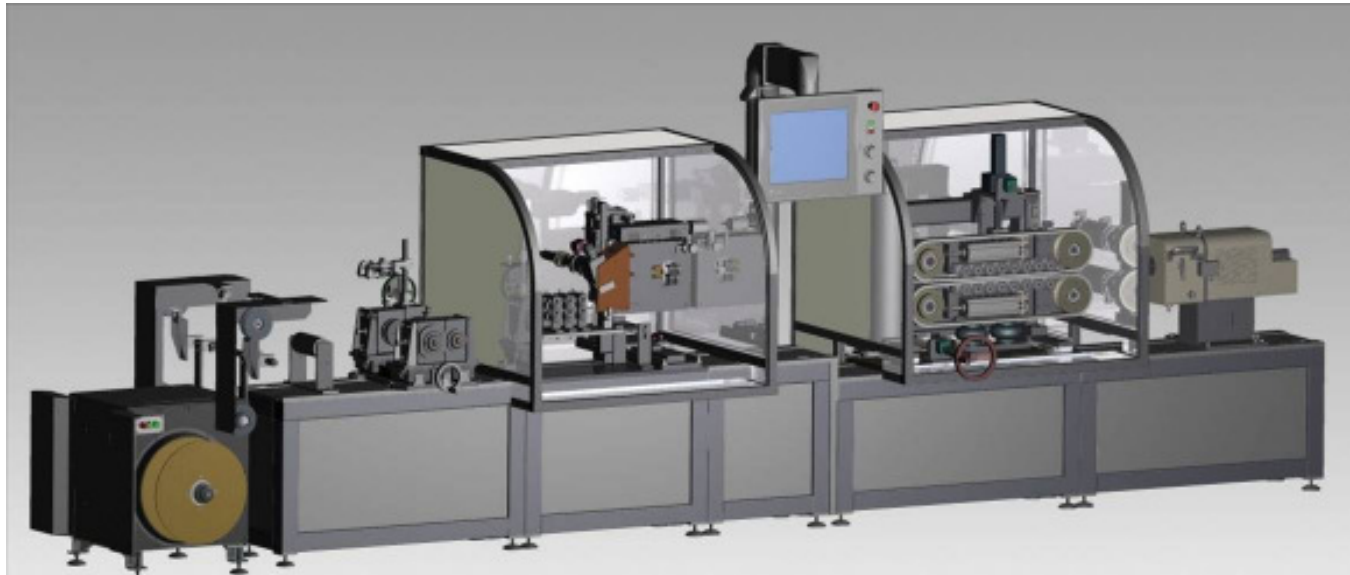
**Significant
developments**

**Owner of several
patents**

Content

- Brief Introduction and New Direction of Nexans, “Production Lines and Technology”
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New Innovative Modular Machine Concept



- ✓ **Movie modular and mobile machine concept**
- ✓ **Equipping with ordinary section designed base frame and capstan**
- ✓ **Modular, thus easily extendable machine concept**

LASER welding: Overview

✓ LASER types

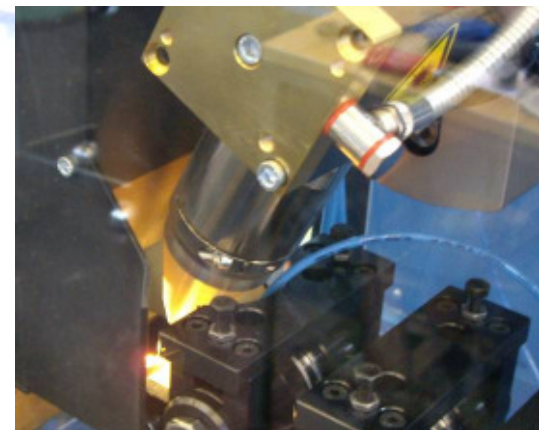
- Gas LASER (CO₂ LASER)
- Solid state LASER (Nd:YAG LASER)

✓ LASER processes

- LASER beam welding
- Key-hole welding

✓ Materials and application

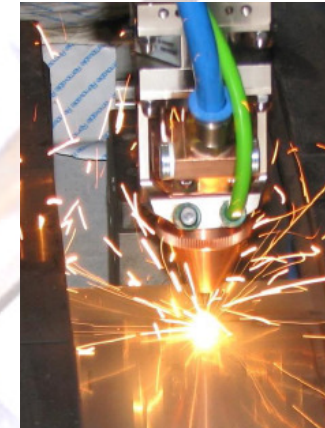
- Copper, Aluminium, Steel, Stainless Steel and Metal alloys
- Longitudinal continuous welding
- Cross welding



LASER welding: Latest developments

✓ Using a new fibre or disc LASER

- Increase of energy efficiency (~30%)
- Low maintenance costs (~20%)
- High power range -> Increased speed
- High machine up-time -> Reduced costs

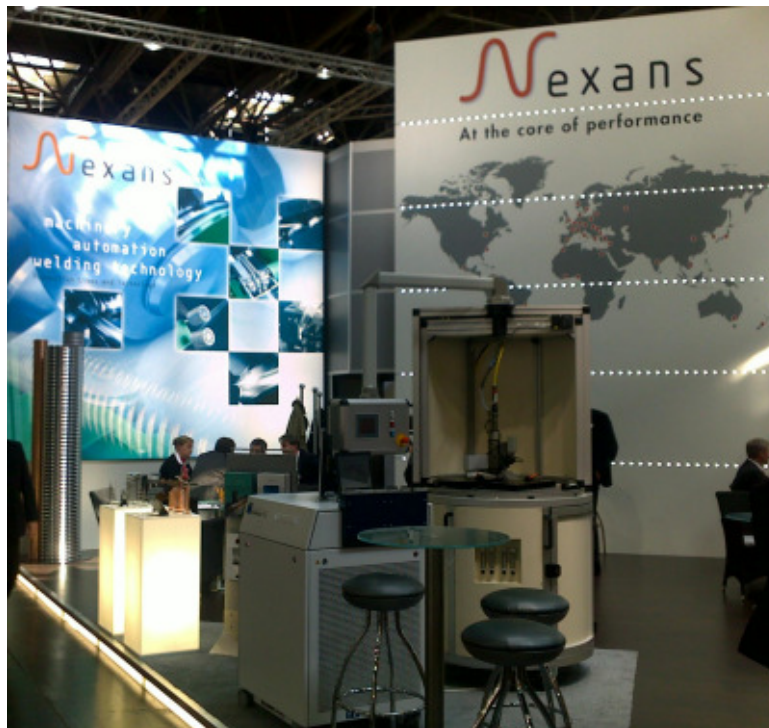


✓ Innovation

- Welding of ultra-thin material
- Reliable welding of copper material
- Cross welding of coated metal strip



New Cross welder unit



Product & Process development with our laboratory machines



**Nx Hannover – PL & T
Shop Floor**



**Nx Hannover – PL & T
Uniwema 70/81**

News and Events



- **Intercable Meetings
Cypris and Russia**
- **WIRE Moscow 2011**
- **Customer day
Hanover 2011**

**Nexans Hannover – PL & T
Customer day 2009**

Thank you very much **Большое спасибо**
for your attention **за Ваше внимание**

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