

# AQ Group – Company presentation

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**WE ARE RELIABLE**

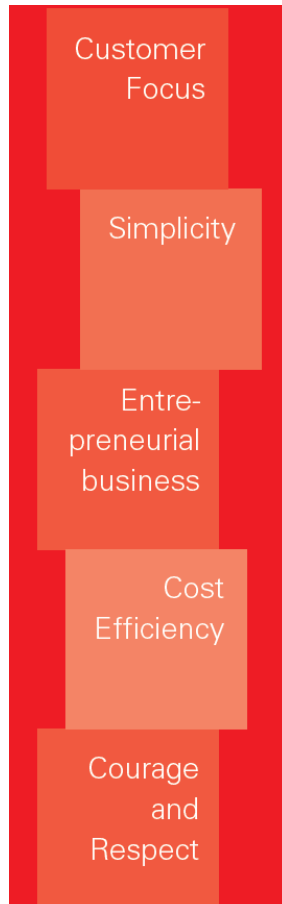
# AQ Group Business Concept

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- **To** develop, manufacture and assemble components and systems for demanding industrial customers
- **With** our commitment to *Total Quality* our customers become long-term partners

# Core values

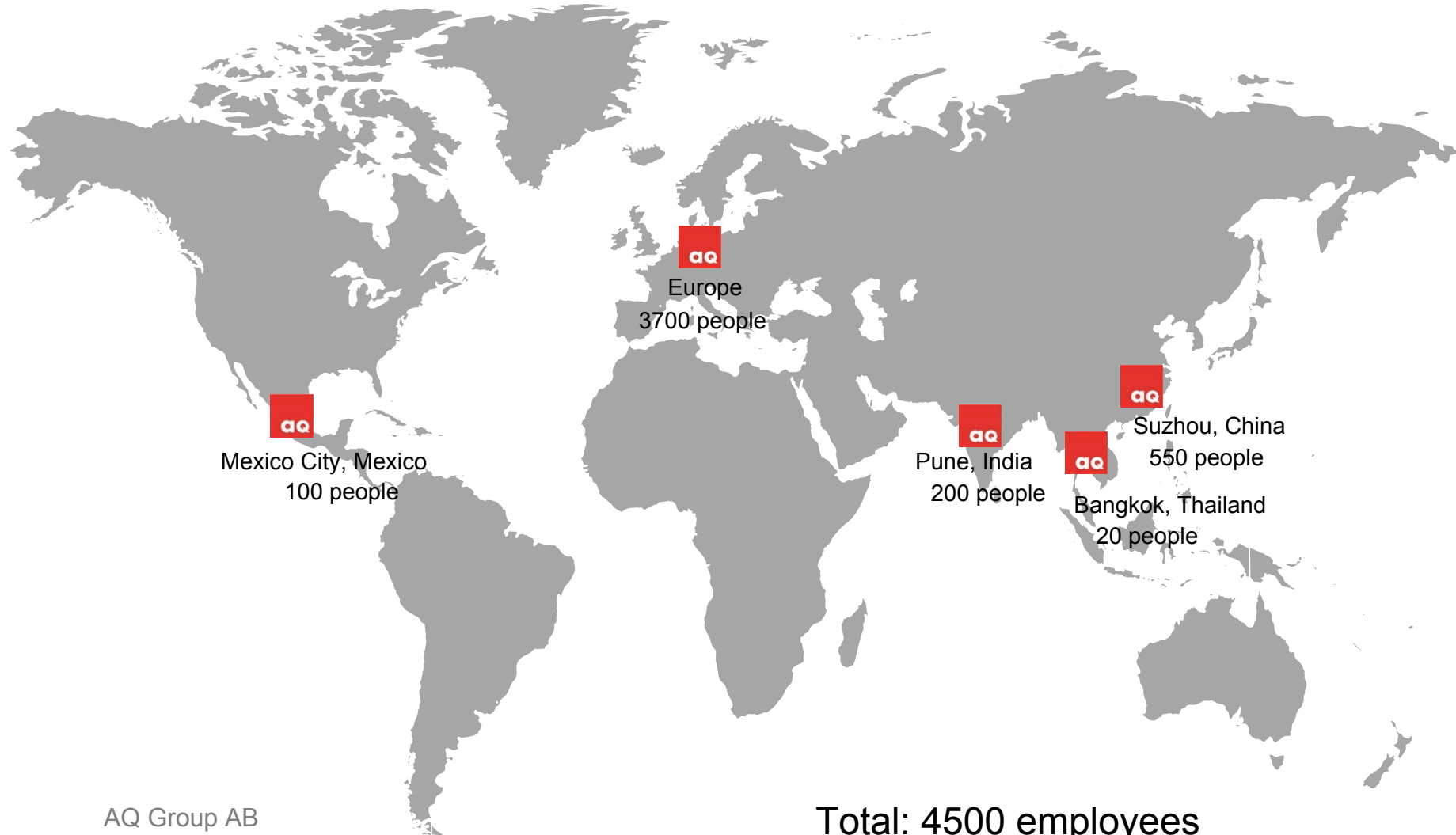


- Customers always come first
- Everything we do adds customer value
- Every AQ company is driven like an entrepreneurial company
- We use the most cost efficient way to fulfill our customers' demands
- We treat others as we like to be treated ourselves

# AQ Group Global Presence



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AQ Group AB

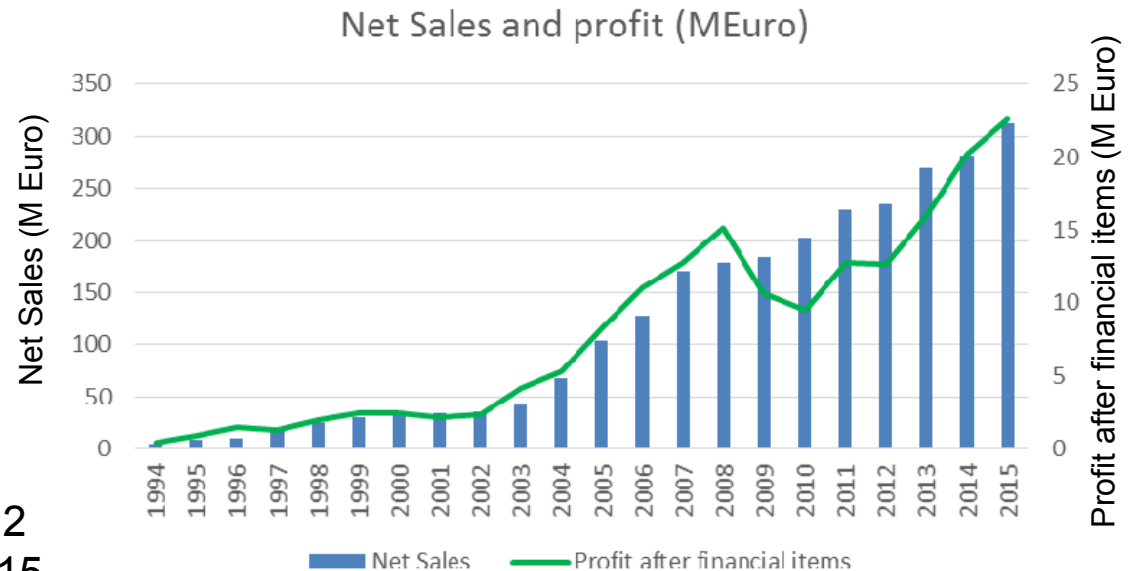
# AQ Group Europe



# AQ Group Key Figures



- Sales Turnover: Euro 300 Million
- History:
  - Founded 1994
  - International expansion:
    - Bulgaria 1996
    - Italy 2003
    - China 2004
    - Estonia 2006
    - Poland 2010
    - India 2011
    - Mexico and Lithuania 2012
    - Hungary and Thailand 2015
    - Serbia and Germany 2016
  - Public company, listed on AktieTorget 2001



Continuous growth and profitability since the start.

# Outstanding financial track record



AQ Group is one of the 562 companies of Sweden's total 474 882 limited companies that have been awarded Triple-A for at least 15 years.



GULDDIPLOM HAR IDAG TILDELATS

**AQ GROUP AB**

556281-6820

AQ GROUP AB är ett av de 562 företag, av Sveriges totalt 474 882 aktiebolag, som har högsta kreditvärdighet enligt Bisnodes kreditvärderingssystem under åren 1999-2016. Ett företag med gulddiplom har bibehållit högsta kreditvärdighet i minst 15 år.

25 februari 2016

PER ADOLFSSON, SVERIGECHEF

AQ Group AB



# Management systems

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- ISO 9001
- ISO/TS 16949
- ISO 14001
- ISO 18001
- UL
- IRIS
- AS 9100
- ISO 3834
- ISO-EN 15085





# Competitive supply chain

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- Local sourcing presence in countries with low cost level
- Global production and a global supplier base
- Local and global market knowledge gives us a competitive advantage
- Quality and performance requirements in line with Western European standards for all suppliers globally
- Global AQ supplier code of conduct
- All subsidiaries use the same ERP system



# Sustainability



## Sustainable development

AQ Group's (AQ) values and engagement in sustainable development have, and will always have, a high priority and will be supported and carried out in follow-up, decisions and actions. It involves a continuous strive for balance between economic development, environment improvements and social responsibility.

Our work on sustainable development is divided in three main synergetic areas.

- [Relations](#)
- [Environment](#)
- [Employees](#)
- AQ is connected to UN's Global Compact [www.unglobalcompact.org](http://www.unglobalcompact.org) .

AQ Group AB



# Group Customers



# Market segments

## Transportation



Automotive



Commercial Vehicles



Railway

## Electric



Power



Automation

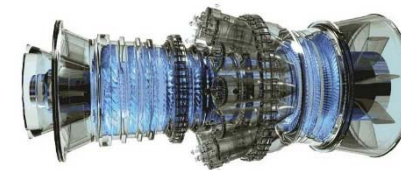
## Food & Drug



## Telecom



## General Industry & Engineering



# Business Areas

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Sheet Metal Processing



Injection Molding



Inductive Components



Electrical Cabinets



Wiring Systems



System Products



Special Technologies &  
Engineering

# Business Areas



Sheet Metal Processing



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System Products

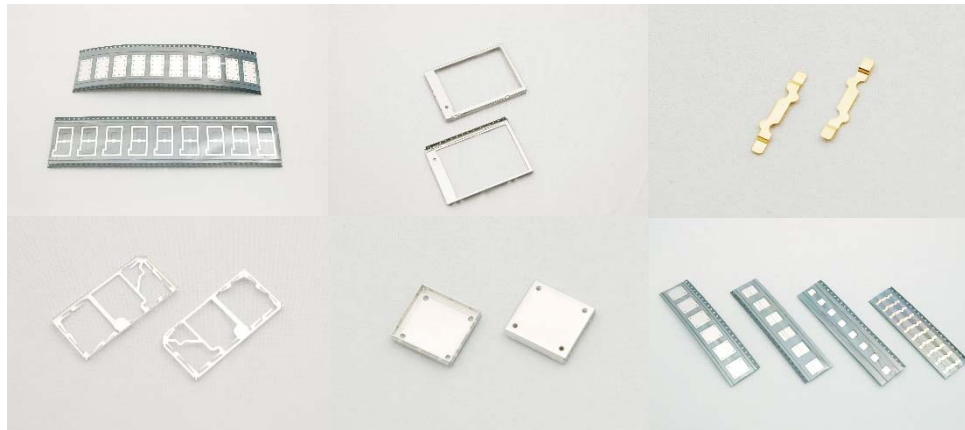


Special Technologies &  
Engineering

# Precision Metal Stamping



- More than 40 Press lines, 200-3500kN
- Stamping, Bending, Deep drawing
- Thicknesses 0,08 - 3,0mm
- Surface treatments
- Activities in Sweden, China and Thailand
- Market segments: Telecom, Automotive, General Industry

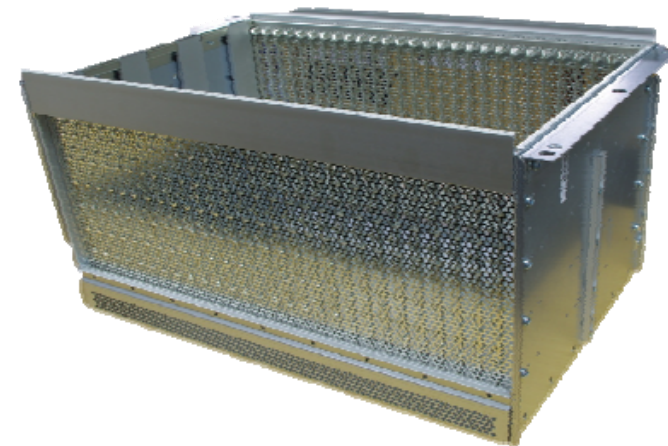
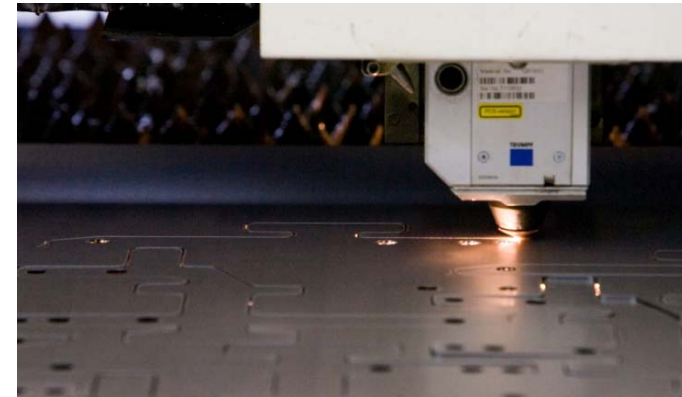




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# Punching & Laser Cutting

- Punching and laser cutting
- Joining methods (riveting, welding (TIG/MIG, robotic, CMT, FSW))
- Assembly and functional tests
- Post-treatments and powder coating incl. ED.
- Activities in Sweden, Bulgaria, Estonia, China and India
- Market segments: Telecom, Automotive, Electric Power, General Industry







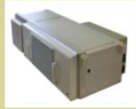
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# Stamping & Welding

- Up to 1000 tons of press force
- (Robotic-) press brakes
- Joining methods (riveting, welding (TIG / MIG, Robotic, CMT, FSW))
- Post-treatments and powder coating incl. ED.
- Activities in Sweden, Estonia, Bulgaria, China and Germany
- Market Segments: Telecom, Vehicles, General Industry



# Business Areas



Sheet Metal Processing



Injection Molding



Inductive Components



Electrical Cabinets



Wiring Systems



System Products



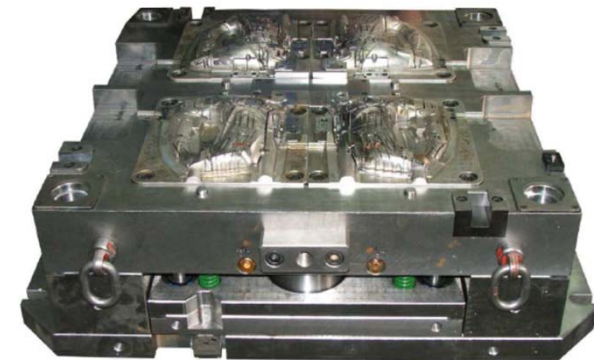
Special Technologies &  
Engineering

# Injection Molding

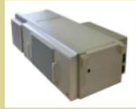


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- More than 120 injection machines 250-15000kN
- Up to 4-component injection, Insert/Over-molding
- More than 40M units per year
- Fully automated production cells
- Materials: PC, PA, PBT, PC/ABS, PP, ABS, TPE, TPU, POM, PEI, PEEK, STATCON
- Activities in Sweden, Hungary, Bulgaria, China
- Advanced design capabilities and tool manufacturing in house
- Market Segments: General Industry, Automotive, Telecom, Food & Drugs



# Business Areas



Sheet Metal Processing



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System Products



Special Technologies &  
Engineering

# Inductive Components

- Electro and mechanical design engineering
- Electro-technical industry for inductive components within the range 1VA to 4MVA with system voltage of up to 22kV
- Activities in Sweden, Bulgaria, China, Serbia, India and Italy
- Market Segments: Railway industry, Electric Power, Electric Automation, General Industry



# Products

- HF inductors and transformers  $\leq 25$  kHz
- DC line filter inductors with HF harmonics (typ. 3 kHz)
- 3-phase filter inductors with HF harmonics (typ. 1.5 kHz)
- Reactors for submersion in oil within main transformer
- Harmonics filters
- Mono and 3-phase transformers
- Cast resin transformers & inductors
- Air coils
- Transformers with integrated inductor
- Toroidal transformers and reactors
- Cooling methods: Natural air / Forced air / Water cooled
- Core materials: Ferrite, Electrical steel GOES/NGOES, Nanocrystalline, Amorphous
- Winding materials: Wire, Litz or Foil from Aluminum or Copper



# Business Areas



Sheet Metal Processing



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Wiring Systems



System Products



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Engineering

# Electric Cabinet Assembly



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- Design and manufacturing of electrical power and control equipment
- Integration, testing
- Electrical and mechanical design
- Project management & programming
- Activities in Sweden, Bulgaria and China
- Customers: Food & Drugs, General Industry





# Business Areas



Sheet Metal Processing



Injection Molding



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Wiring Systems



System Products



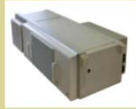
Special Technologies &  
Engineering

# Wiring Systems

- Wire harnesses - A wide range of customized industrial wire harnesses
- From design to assembly
- Activities in Poland, Lithuania, Mexico, India and China
- Market Segments: Railroad, Automotive, Combustion Engines, Construction Equipment, Engineering Industry



# Business Areas



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System Products



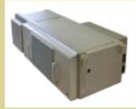
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Engineering

# System Products

- Packaging Machines, Air treatment, Cash handling systems, Gasoline Pumps, Ticketing Machines
- In-house enclosure manufacturing
- Advanced assembly and testing
- DFM and system design services
- Activities in Sweden, Bulgaria and China
- Customers: Food & Drugs, General Industry



# Business Areas



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Special Technologies &  
Engineering

# Special Technologies & Engineering



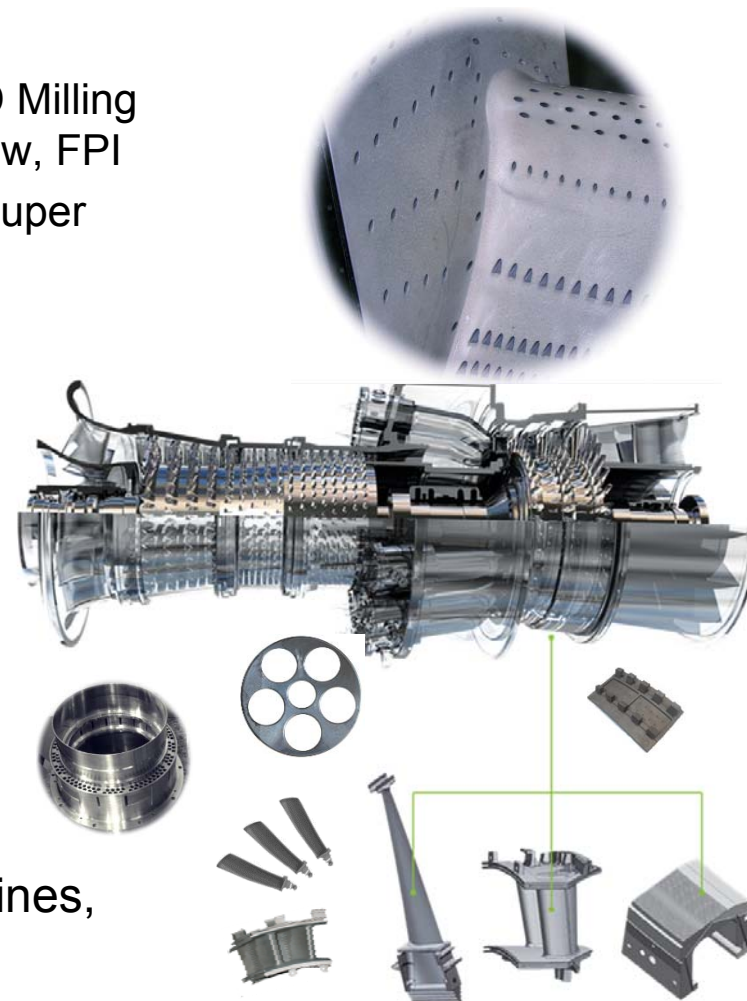
- Products with high engineering content for example,
  - Special machining for gas turbines
  - Air sensors in plastic and stainless steel for medical industry
  - Drive controls and foot pedals
  - Product development services
- Activities in Sweden, Hungary, Bulgaria and China
- Market Segments: Commercial vehicles, Automotive, Food & Drugs, General Industry, Railway





# Special Machining for industrial gas turbines **WE ARE RELIABLE**

- Processes:
  - Die sinking EDM, Fast hole EDM, 3-5D Milling and Grinding, Hot Forging, EBW, Airflow, FPI
  - Machining of processed nickel based super alloys
- Product examples:
  - Parts for industrial Gas Turbines,
  - Vane/Nozzle machining,
  - Combustion parts
  - Tooling  
Machining fixtures, Measuring gages
  - Electrodes, Special Milling tools
- NPI & Technology development
- Activities in Hungary
- Market Segments: Industrial Gas Turbines, Aero Derivative Engines

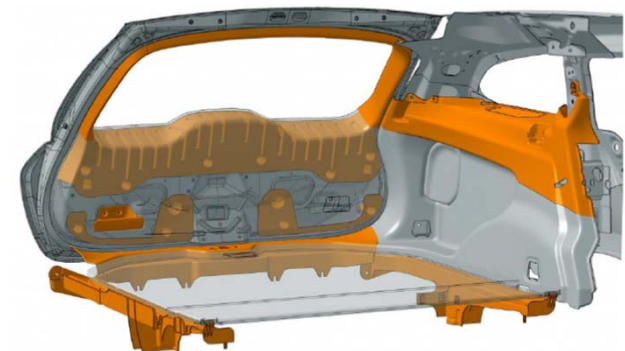
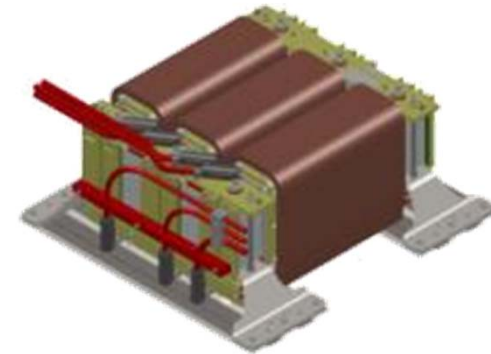


# AQ Engineering



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- AQ Retor Engineering
  - Mechanical design engineering for the Automotive industry of plastic and sheet metal parts and complete systems.
- AQ Enclosure systems
  - Mechanical design engineering for the telecom industry. Experts in enclosure design.
- AQ Italy and AQ Trafo
  - Designs transformers and inductor solutions for the railway and electromechanical industry. Industry leading in Aluminum designs.
- AQ Elautomatik in Västerås and Bollnäs
  - Expertise in design of master controllers and foot pedals.





# WE ARE RELIABLE

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WE ARE RELIABLE

- We have a long term view and commitment
- We aim to be a world leader in:
  - quality
  - on time delivery
  - alertness and service
- We continuously work to improve
- We have a global manufacturing footprint
- We run a responsible and sustainable business
- We are financially strong

Thank you!

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