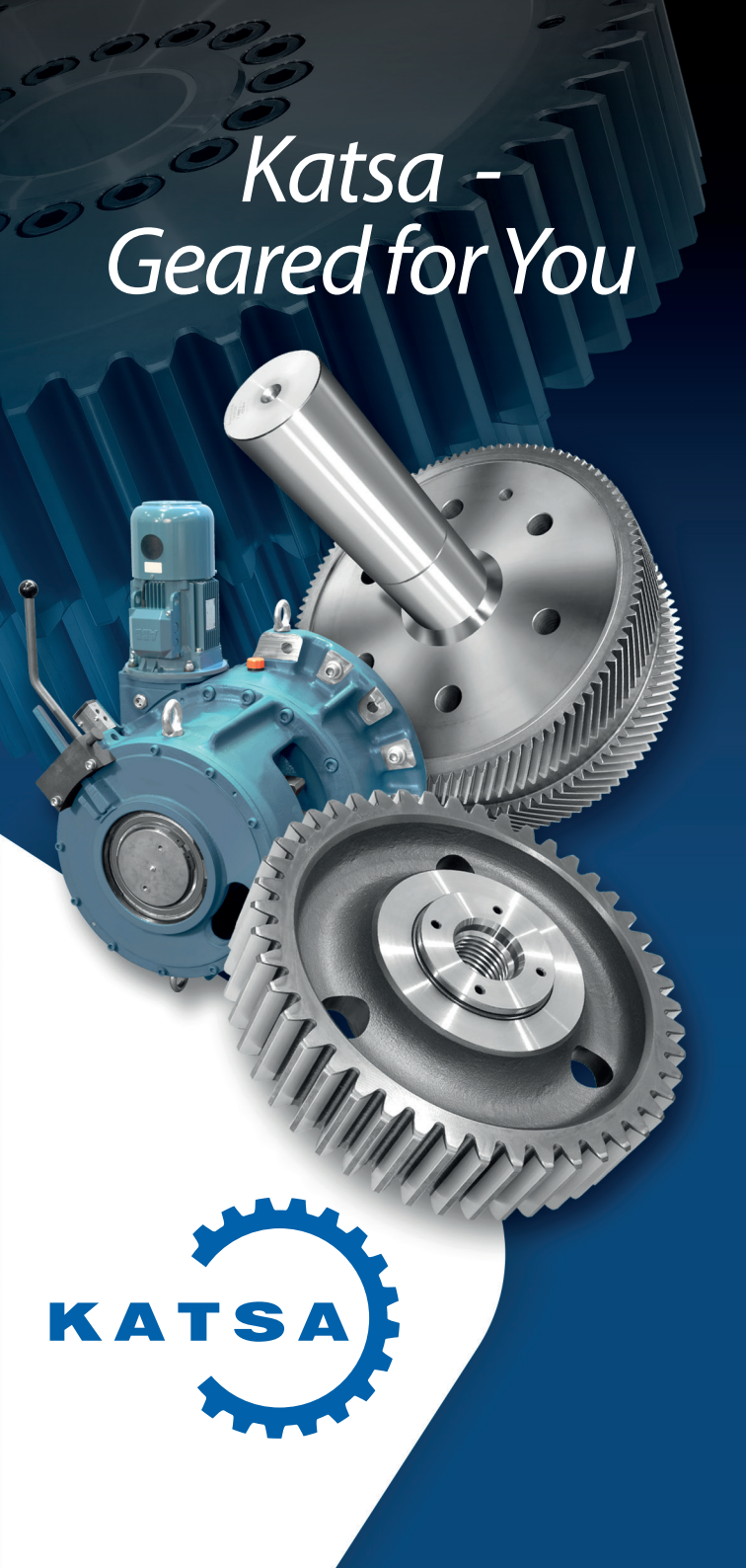


# *Katsa – Geared for You*



# Main Business Areas

Katsa Oy designs and manufactures power transmission components and complete gear-box solutions for world-class customers in the following business areas:

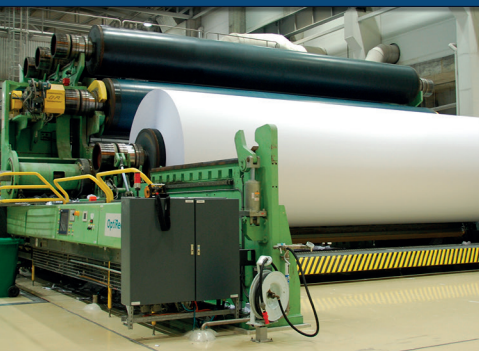
## Marine & Offshore



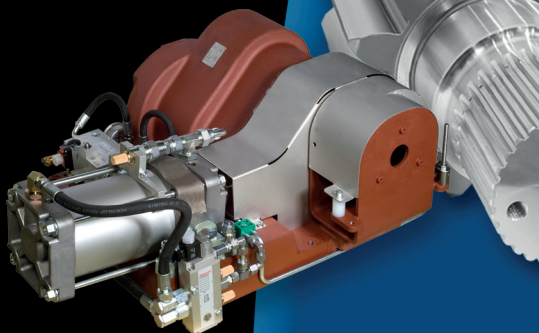
## Steel &

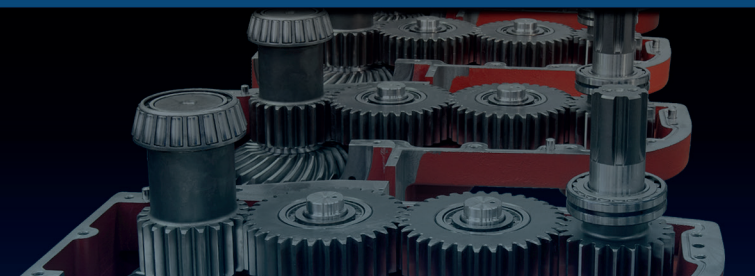


## Pulp & Paper



## Energy





Metals



& Wind



Mining & Construction



Vehicles & Rail





# ***Gear Unit Solutions***

## ***R&D Capabilities***

Katsa's R&D Department has decades of experience in tailor-made gearbox designing. All Katsa™ gearboxes are made according to customer requirements. The design process is made in close co-operation with the customer to ensure the best possible solution.

Long-term product development projects have ensured that Katsa's R&D Engineers are well experienced with the special requirements for different business areas.





## *Tailor-made Gearboxes*

Katsa™ gearboxes are invariably purpose-built solutions. We produce gearboxes for serial production as well as for single prototype purposes. Our range includes cylindrical, planetary, conical and worm gears. The final product can include combinations of all these constructions.

Hundreds of our worldwide customers have chosen Katsa™ gearboxes for their applications, for example in:

- Turning devices for marine diesel engines
- Paper Machines
- Utility Vehicles
- Mining & Construction equipment

Technical guidelines for Katsa™ gearboxes:

- Wide range of transmission ratios (1800:1 ... 1:10)
- Centre distance up to 1500 mm
- Input power up to 3 MW
- Unit weight up to 15000 kg



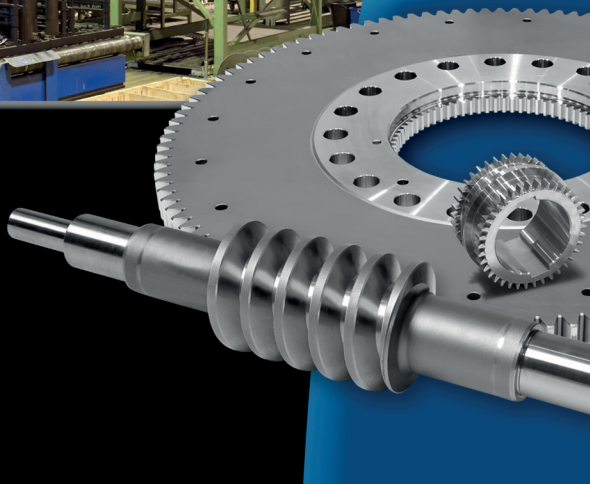
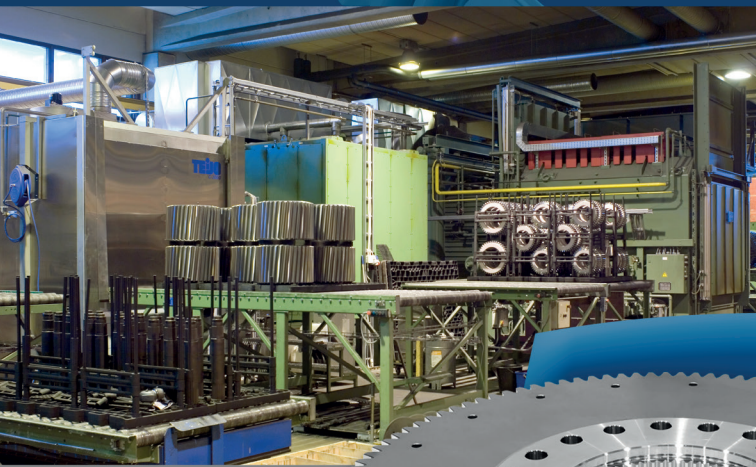
# Gear Components

## Manufacturing

Katsa's gear component manufacturing is focused for high-accuracy gearwheels and other gear components for heavy demands.

In-house production capabilities for gear components generally are as follows:

- Up to Ø 1600 mm for case hardened and ground tooth flanks
- Gear cutting up to Ø 2400 mm
- Ground worms up to Ø 350 mm and wormwheels up to Ø 1300 mm



## ***Spare-parts***

We are able to react quickly for urgent spare-part demands.

According to the customer agreement, any critical components can be kept in our stock for same-day delivery.

## ***Reverse-engineering***

We have complete reverse-engineering capabilities to fulfil customer demands for gearbox and component refurbishment issues.





# Capabilities

## Modern Machinery

Katsa has been always known for its modern production machinery. Our machinery covers all production phases, from the sawing of the blank up to the final inspection.

An overview of the current main machines is as follows:

- Gear Cutting machines up to Ø 1600 mm
- Heat Treatment - Ipsen Case Hardening furnaces up to 5000 kg
- Grinding - Kehren grinding machines up to Ø 1500 mm
- Gear Grinding
  - Gleason Pfauter profile grinding machines up to Ø 1600 mm
  - Reishauer RZ 1000 up to Ø 1000 mm and M10
  - Balancing up to 5000 kg and Ø 1600 mm
- Final Inspection
  - Klingelnberg measuring machines P100 and P150
  - Magnetic particle & ultrasonic inspections
  - Barkhausen grinding burning inspection
  - Co-operation with any class society for on-site classification (eg. DNV, ABS, etc..)



# Competitiveness

Since the beginning, Katsa's competitiveness is based on four strong cornerstones in their way of working:

1. Uncompromising quality base in all actions
2. Systematic, continuous improvement in productivity and production methods
3. Modern and efficient machinery
4. Motivated, experienced and highly skilled staff

As a summary of these cornerstones, Katsa is proud to serve any world-class customer in the mechanical power transmission field!



# Quality



## Quality Bases

Katsa's quality is based on highly skilled workers and the most modern production technology.

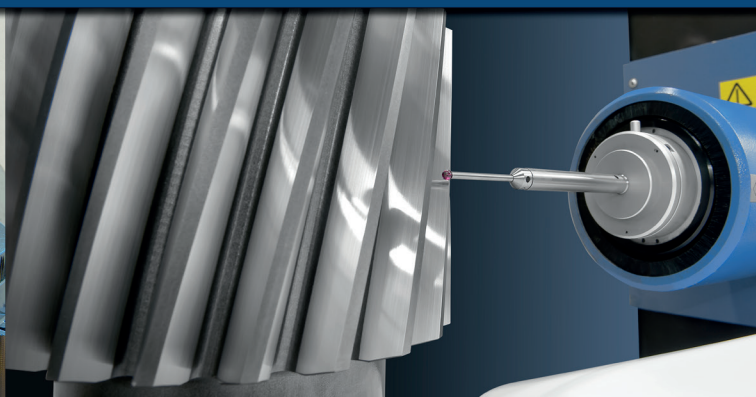
Quality is built in all our products and processes.

We use the latest quality know-how and measuring equipment to ensure product quality throughout the manufacturing processes.

All our geared products have 100 % traceability, for example material, heat treatment and measuring data via the unique KATI™ quality database.







## Certificates

Katsa is certified in the following systems by DNV:

1. ISO9001:2008 Quality Management System since 1993.
2. ISO14001 Environmental Management System since 2003
3. OHSAS18001 Occupational Health and Safety System since 2005

In addition, Katsa is Achilles JQS Qualified for Norwegian Offshore and Oil & Gas industry since 2012.

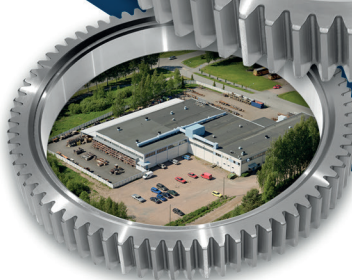
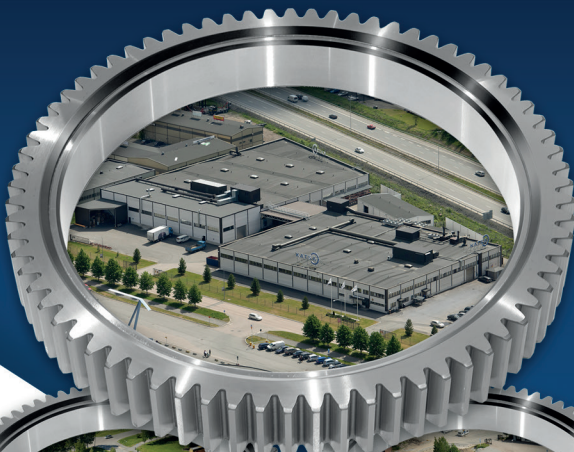




## *At Your Service*

Katsa Oy designs and manufactures gear units and power transmission components. Since the establishment in 1955, Katsa Oy has been focusing on high-accuracy gearwheels and tailor-made gearboxes.

Today, products can be found wherever True Expertise is needed.



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