Productivity and Competitiveness: 1 million parts per hour

- Regular annual investment of approximately 10% of turnover to support an optimum production of 1 million parts hourly.

Product Quality: target 1 PPM

- Consistent 1 PPM yearly average quality level with a "zero defects" approach through automated optical sorting of our whole production (0.51 ppm in 2014 and 0,31 ppm in 2015),
- Up to 100 million parts sorted per month to segregate anomalies and avoid all comingling.

Responsive, Seamless Logistics: objective 100% order fill rate

- Appropriate stocks for maximum responsiveness to customer demands,
- All our products are shipped and checked by us, including all items undergoing subcontracted intermediate operations,
- Our information system is equipped with an EDI solution incorporating ODETTE and VDA standards and all associated messages.

Safety, Environment and Quality Management

- A secure information system based on a Best-in-Class ERP solution ensures cross-functional application of business processes, traceability of information and high data availability,
- The Total Management System based on tight control of indicators delivers smooth operation, improvement and efficiency of business and technical processes.

Certifications and Commitments

- ISO 9001 and ISO TS 16949 Quality Certifications since 1993,
- ISO 14001 Environment Certifications since 2007,
- Membership and support of United Nations Global Compact.

References

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GRIS Group

Fastened on Ongoing Progress!

Manufacturer of
ENGINEERED WASHERS
MECHANICAL COMPONENTS
DIE-CUT ENGINEERED PARTS

www.gris-group.com

The Company

For more than 30 years the GRIS GROUP has been building on its metalworking know-how to manufacture engineered washers, mechanical components and die-cut engineered parts in medium and large runs on high-productivity presses.

Through a number of external growth operations and successive investments in complementary processes, our firm has over the years consistently remained at the forefront of technology while meeting customers' demands for a "zero defects" quality approach.

Today, with 180 employees, the GRIS GROUP owns two production sites equipped with different but interrelated technologies, one in France and the other in Germany. It is a first-tier supplier to leading vehicle manufacturers Renault Nissan Dacia, PSA Peugeot Citroën, Volkswagen, Audi, Daimler, BMW and General Motors and to virtually all automotive equipment makers and large specialist bolt manufacturers.

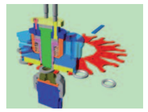
The group also supplies many other industry segments, including rail, agricultural machinery, construction, electrical equipment and specialist distribution.

Our high-quality, high-performance products are in service all over the world.

Research & Development

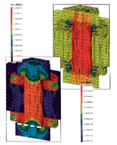
IN-HOUSE TOOL DESIGN

Our R&D department is the primary source of the company's know-how and is run by teams of mechanical engineers and technicians using the latest-generation CADD stations.
We are an expert member of the UNM, AFNOR and ISO standards organisations, the CETIM research centre and the german associations DSV and IBU.



APPLIED RESEARCH

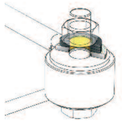
Tests and simulations in specific configurations:
- Loss of tension in an assembly
- Fatigue stresses
- Unscrewing test
- Failure study
- Work with CETIM and AFFIX
- Contribution to the republishing of the ICS handbook: Industrial screw mounting, published by Mönnig Verlag



PRODUCT INNOVATION

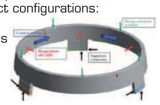
Redesign of an existing product in response to a customer need in the rail transport field.

TREPplus®



PRODUCT RESEARCH AND CO-DESIGN

At the customer's request, development and Ecotech research work for specific product configurations:
- Process-product adaptation
- Proposal for engineering savings from changes made *(resizing, streamlining, mechanical properties)*



Products

Our products are widely used in gearboxes and drive train components among other applications. They can be grouped into three basic categories: mechanical components, engineered washers and die-cut engineered parts.

> MECHANICAL COMPONENTS

Examples:
- Shims
- Bearing support and bearing flange parts
- Wear and friction parts for differential housings

> ENGINEERED WASHERS FOR FASTENING SYSTEMS

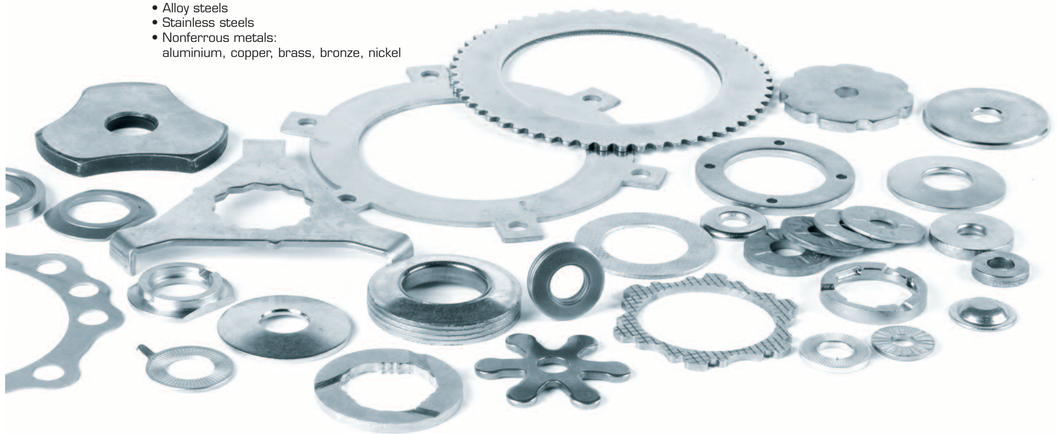
- Flat washers
- Tapered washers
- Special shaped washers
- Calibrated washers
- Serrated calibrated washers
- TREP® and TREP® INOX spring washers

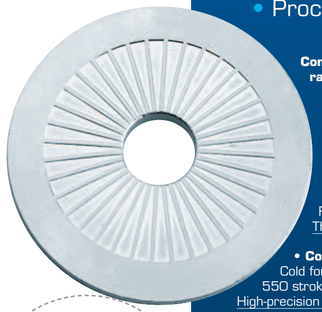
> DIE-CUT ENGINEERED PARTS

Examples:
- Electrical connections
- Fastening lugs
- Stamped covers and plugs
- Deflectors

Raw materials

All types of metals:
- Hot rolled steel - HRS
- Cold rolled mild steel
- Carbon steels
- Alloy steels
- Stainless steels
- Nonferrous metals: aluminium, copper, brass, bronze, nickel





Processes

Complementary processes for an adaptable range of products.

- **Die-cutting using compound dies (high speed)**
  Fully automated lines of 200 T
  Thickness: 0.5 to 7 mm
  Manual die-cutting presses of 160 to 250 T
  Thickness: max. 10 mm
- **Rapid progressive die-cutting**
  Fully automated lines of 25 to 200 T
  Thickness: 0.10 to 5 mm
- **Cold forming**
  Cold forming lines of 200 T
  550 strokes/minute
  High-precision calibrated geometries
- **High-speed transfer**
  Transfer presses of 250 T and 630 T
- **Surface grinding**
  Automatic lines for double-side surface grinding
- **Washing/deburring processes**
  Brushing
  Tribofinishing
  Centrifuging
- **Dimensional optical sorting and surface inspection**
  Sorting lines with optical inspection (camera and laser)
  "Zero defects" quality policy
  Automatic packing on sorting lines
  Monthly capacity of 100 million items
- **Packing**
  Automated packing line.

Auxiliary services

- **Subcontracting**
  Heat treatment
  Surface treatment

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