



Transmission manufacturing

Cutting fluids
for gears & housing
production

Our expertise, your success
towards **future mobility**



TotalEnergies

Summary

- Your challenges, our solutions
- Product ranges
- TotalEnergies cutting oils, fluids & other products
- Operator health
- Five good reasons for choosing TotalEnergies Lubrificants

Your challenges

- Increase in productivity**
 - Shorten production cycles
- Cost savings on production**
 - Extend tool lifetime
 - Reduce fluid consumption
 - Decrease waste
- Respect of users and the environment**
 - VOC's reduction
 - No faint smells
 - Elimination of dangerous substances

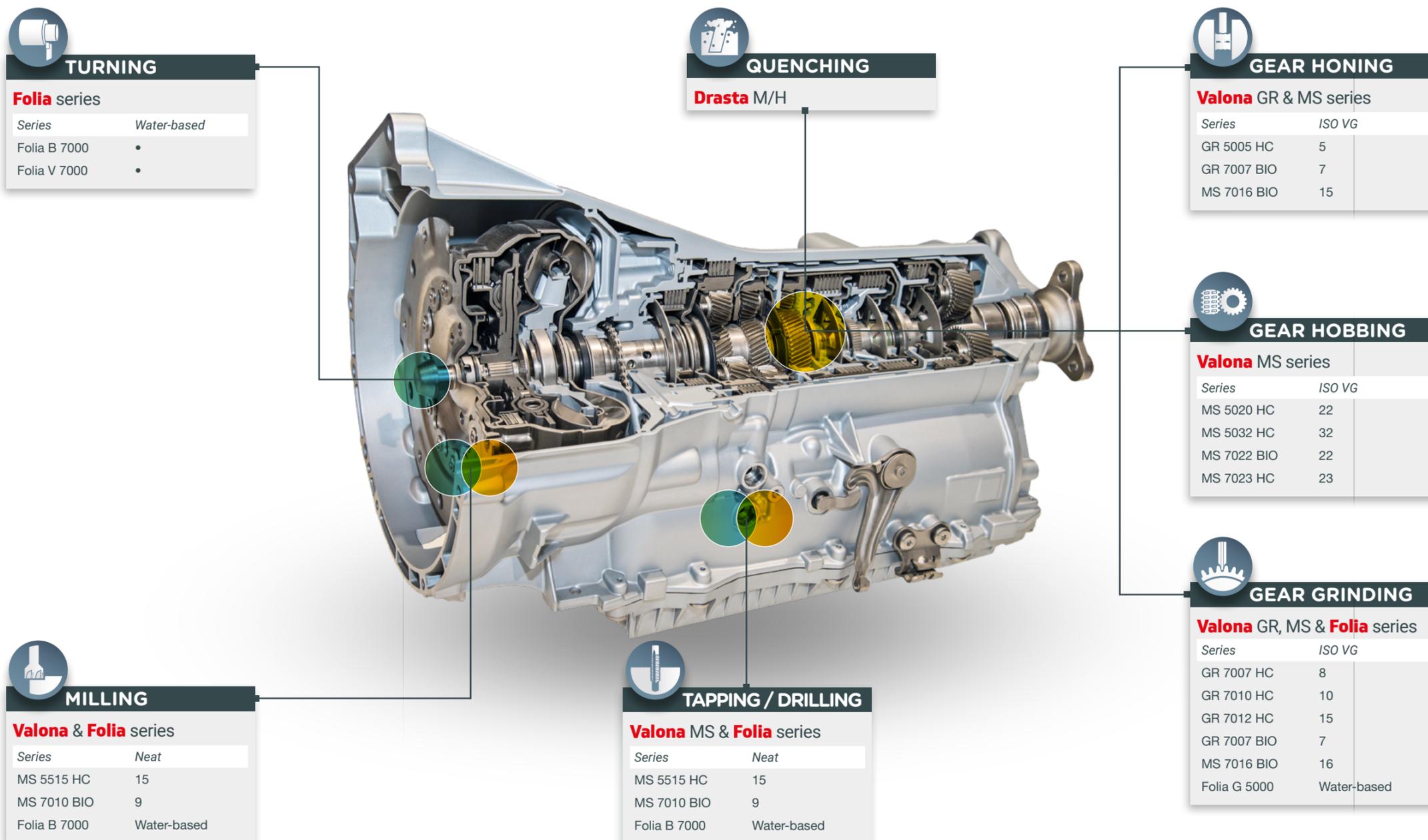
Our solutions

- Efficient machining for all metals and the most **stringent operations**
- Increased **tool lifetime**
- Increased **productivity (less down time)**
- Outstanding **surface finishing**
- Savings** on production costs (reduced cutting effort, better cleanability)
- Longer **lifetime** of the **cutting fluid**
- Reduced fluid **consumption** (less volatile neat oils)
- Focus on operator **safety** and **health**

TRANSMISSION MANUFACTURING

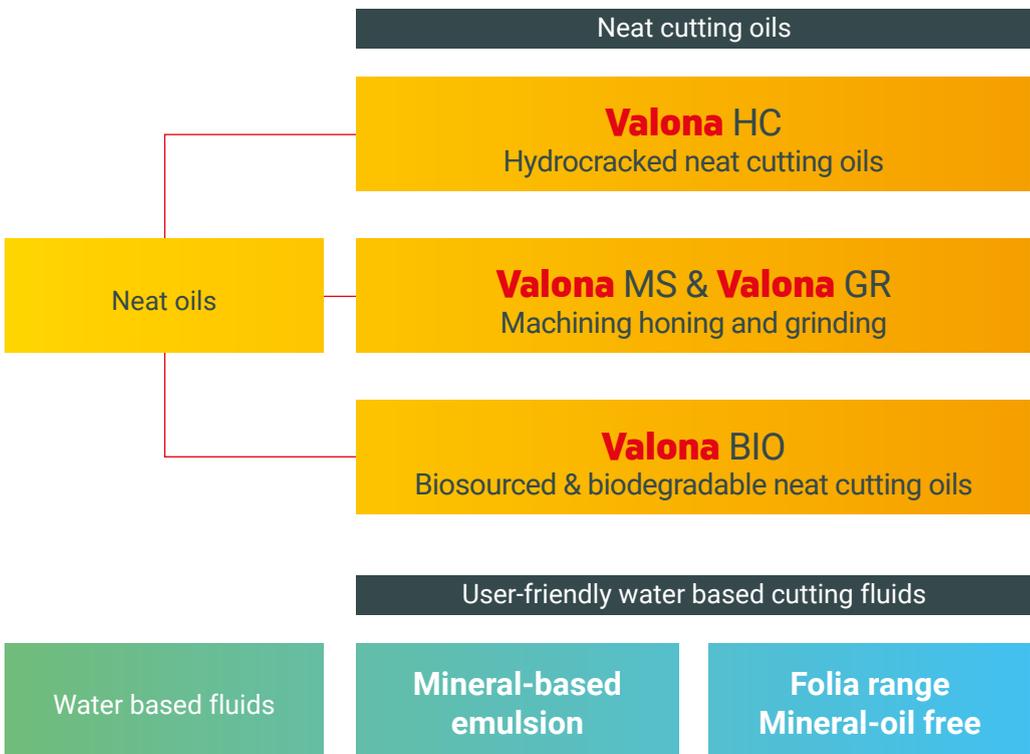
Often the term transmission refers simply to the gearbox that uses gears and gear trains to provide speed and torque conversions from a rotating power source to another device, but in fact a transmission is a high performance part that has a big role in the machine it is used for. The better the design, the more efficient the energy transfer will be.

We provide high performance oils and fluids to help you produce transmissions efficiently, without compromising productivity nor your operator's health.





TotalEnergies cutting oils & fluids



Other products

- **Hydransafe**
Fire resistant hydraulic oil
- **Azolla**
Hydraulic oil
- **Greases**
Specialty greases
- **Drosera**
Slideway oil
- **Finadet**
Degreaser
- **Osyris**
Rust Preventive





Your operator's health is our concern

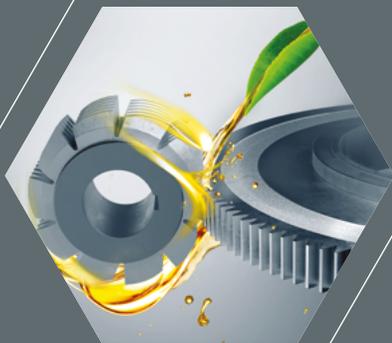
New technology cutting oils developed to make the working conditions of your production site safer for your employees!



OUR SOLUTION FOR SOLUBLE OILS

The **Folia** range is a revolution in the field of metalworking. It is a water-based fluid free of oils and emulsifiers.

With a high lubricity and an excellent cooling power, it offers to users a unique solution for multiple metalworking operations.



OUR SOLUTION FOR NEAT CUTTING OILS

Valona BIO range consists of vegetable-based neat cutting oils that are rapidly biodegradable. Formulated from carefully selected mineral oil-free base and performance additives, Valona BIO products offer exceptional performance using polar compounds.

Valona BIO can also be used in Minimum Quantity Lubrication (MQL) systems.



A major player

With our production, supply chain and commercial presence in more than 160 countries, we deliver a full range of lubricants.

Support and partnership

Thanks to local technical presence, we provide a high level of service to optimize your Total Cost of Ownership.

References & OEMs

TotalEnergies Lubrificants cooperates with equipment manufacturers to create high-technology products for optimal performance and production of your machinery.



Innovation & Research

TotalEnergies Lubrificants invests in biotechnologies to find the most suitable components to reach energy efficiency through formulations designed in our Research Centers.

Quality and environment

TotalEnergies Lubrificants ISO 9001 and 14001 certifications are the guarantee of a long term commitment to quality and environment. From the initial design stage, our R&D teams seek to develop products that minimize toxicity risks and environmental impact.



TotalEnergies



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Safety Data Sheets are available at ms-sds.totalenergies.com



TotalEnergies Industry Solutions