Swepart Transmission AB is a privately owned company with approximately 250 employees. Swepart is a modern and competitive manufacturer of both custom gearboxes and precision-made gears and other transmission components for industrial and vehicle applications. In collaboration with our customers, we take full responsibility for the development, design, and production of components and transmission solutions. We have factories in Liatorp, north of Älmhult, and in Sibbhult, north of Kristianstad.

Geer Cutting Tool Design

About the project
The intention with this project is to develop software to be used for design of gear hob geometry and dresser design for gear grinding.

For new gears we must design the hob to achieve correct gear geometry after gear grinding also considering machining tolerances, grinding allowance, heat distortion, manufacturing deviation etc. We also need to design the grinding worm dresser to achieve a smooth gear root that doesn’t interfere with the hobbed geometry causing notches or other effects in the root area reducing gear root fatigue strength.

Gear tooth micro modifications as tip relief, profile crowning etc must be considered.

We also want to go the opposite way to check if an existing tool can be used for a new gear. This is a very interesting project as we have not found any commercial software handling those demands.

The work can be done at the University or at Swepart.

Your development
We believe in the power of combination. A workplace where many different skills and experiences can collaborate is the best way to achieve results. We are convinced that the meeting between different areas of expertise and personalities lays the foundation for our success. That is why we give you the opportunity to work at the forefront of technology and to grow in all aspects - personally, in terms of skills, and in your career. For us at Swepart, it is important to maintain a balance between work, leisure, and family life. We have a unique advantage of being surrounded by beautiful surroundings in Liatorp, with proximity to Älmhult, Växjö, and Ljungby. We have become skilled at flexibility and offer a high level of responsibility for all our employees.

Are you ready?
Why wait – send us an e-mail today, we are looking forward hearing from you!

Contact
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