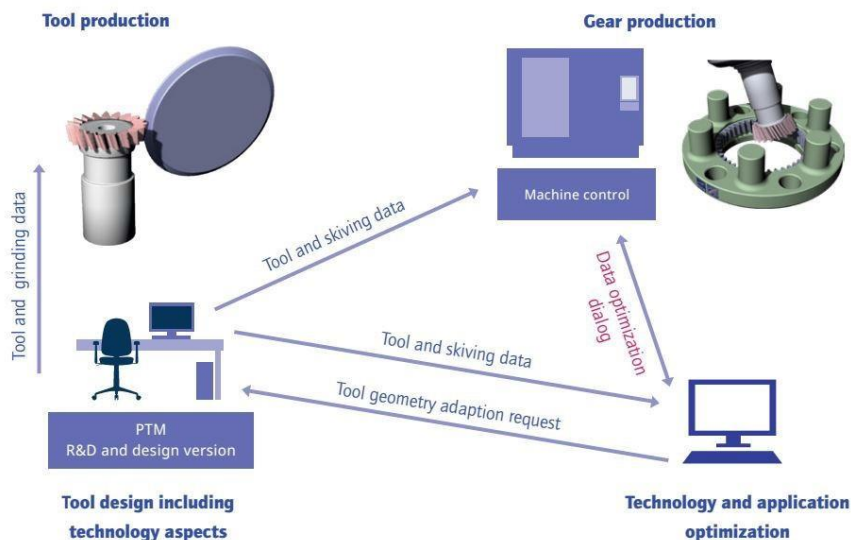




Substantial investments in new e-mobility transmission concepts, in the expansion of robotics, and in further projects to increase efficiency and quality in series production are putting power skiving more and more in the spotlight as a highly efficient gear cutting process. The number of machine tools that enable an efficient skiving process is growing rapidly, and with it the demand for high-quality cutting tools and reliable manufacturing processes.

esco is established as a leading software system supplier for the entire skiving process chain, from the gear to the quality-checked power skiving tool. We have continued our targeted research and development work and are pleased to offer you very interesting enhancements that make tool and process design even easier, more transparent and more efficient.

More Power Skiving: The new PTM features for even more transparency and process reliability



Technology support also for the application engineer on site

PTM for Power Skiving and the already presented **Technology Module** as PTM add-on for Power Skiving (www.esco-aachen.de) have been extended by essential functions for the detailed design of the skiving cutters, for indexing generation grinding and for the definition and analysis of the cutting process "Power Skiving".

New: As of now, the **PTM Application Module** is available for on-site analysis and optimisation of the skiving process. The application specialist has access to all functions of the technology module in his stand-alone version, based on the PTM data set from the tool design. In addition to the possibility of optimising the cut distribution, error analysis (setting data) and compensation are excellent optimisation features. The results of a wear analysis, which require design changes to the skiving tool, can be transferred directly to the tool design in an adapted data set. The application specialist and the design department can communicate seamlessly with each other.

The most important new functions at a glance:

Tool design	Tool manufacturing
<ul style="list-style-type: none">○ Free redesign of the tip form: (full) rounding, protuberance○ Hard machining: possible limitation of the cutting flank of the skiving tool to cut only the active gear profile○ Single flank machining○ Determination of the maximum usable width	<ul style="list-style-type: none">○ Independent definition for tip and flank clearance angles and optimised indexing generation grinding kinematics for optimum resharpening capability○ Indexing generation grinding with standard wheels○ Regrinding simulation: profile shape analysis and setting data optimisation for reground skiving tools
Power Skiving/ technology module	
<ul style="list-style-type: none">○ Automated cut distribution○ Analysis of the effective rake and clearance angles, cutting speeds, chip volumes etc. for each cut Output of the setting data for each cut○ Calculation of the main machining time for skiving a toothing	

Our offer: Find out about your benefits in an online demo with our experts!

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