

Program your DECO

units with the help of ESPRIT software

With immediate effect, you can now program your DECO single-spindle units with the help of ESPRIT software. This globally available software enables you to program all your machines easily, regardless of their technology, machine type or NC system. ESPRIT incorporates a facility known as "Knowledge Base" with realistic simulation capabilities for all types of machine tools.



ESPRIT is an innovative product intended for modern machine tools and developed by DP Technology. With its head office in Camarillo, California, DP Technology was established in 1985 by Daniel Frayssinet and Paul Ricard, who bequeathed the initials of their first names to create this company name. These two dynamic Frenchmen are now the sole proprietors of a company employing 100 people, thus assuring a lasting future for DP Technology outside any group or consortium.

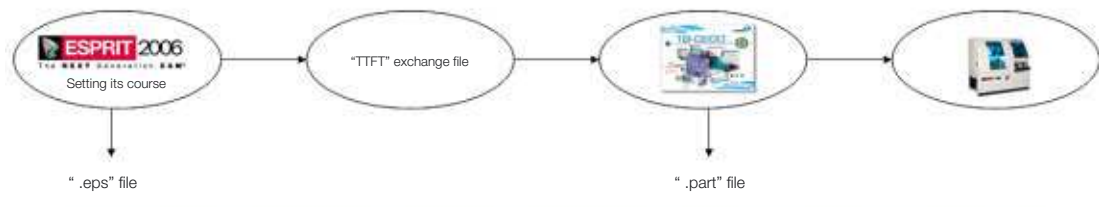
Not just a distributor

The sole distributor for ESPRIT products on the Swiss market, Innovative CAM SA (ICAM) was established in 1991 and has the core strength of having 12 CAD/DNC specialists on its staff. The highly successful launch of ESPRIT software has enabled us to develop a link between ESPRIT and TB-DECO. This part of the solution is marketed through local ESPRIT resellers around the world. We want to listen to what you have to say about developing specific functions for

this CAD solution and in the areas of DNC and machine monitoring.

Open software

ESPRIT permits direct import of design data from most of the CAD programs on the market. This means that native-format files from SolidEdge, SolidWorks, ProEngineer, Catia and Unigraphics can be imported directly into a CAD environment, including the main descriptions of entities. ESPRIT is also able to import files from common formats such as IGES, SAT, DXF,



Programming via SolidMillTurn

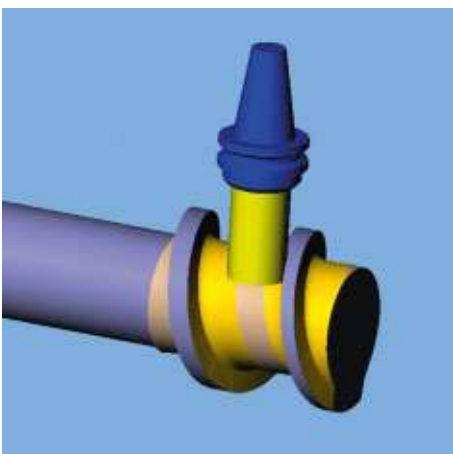
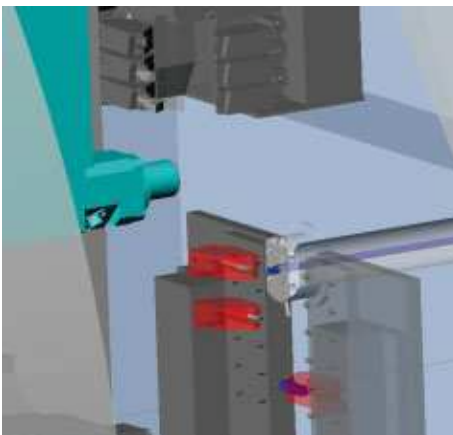
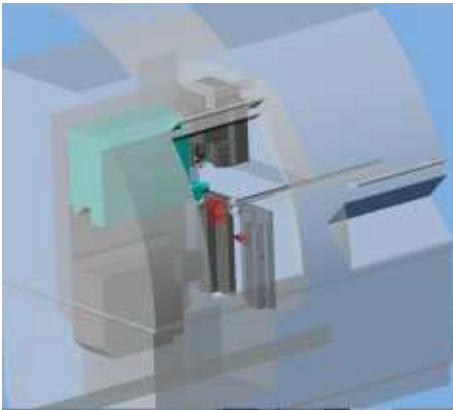


Esprit interface – TB-DECO



Optimising its course through TB-DECO





DWG, STEP, VDA or STL. Based on the Parasolid kernel, the most widely used product of its kind on the world market, ESPRIT operates entirely in 3D but is also perfectly at ease with 2D concepts.

A single software platform for all types of machining

ESPRIT is not restricted to multi-lathe/multi-spindle turning operations, with up to 22 axes it can also be used for programming all your machining centres with up to 5 axes simultaneously, as well as your electric wire erosion units with 4 + 1 axes. This wide range of options is all available under the same Windows environment and ESPRIT programming capabilities are quick and easy to adapt to any NC-controlled machine tools.

Capitalising on expertise and rationalisation of production operations

The process is managed by KnowledgeBase, a name which speaks for itself. From a single SQL database in a fully integrated manner; it draws together your expertise relating to cutting conditions and machining strategies. KnowledgeBase can be combined with a solids analysis engine to achieve a level of programming automation that has never been equalled in this sector. It is applicable to all technologies employed in machining operations.

ESPRIT and TB-DECO

In collaboration with TORNOS SA, ICAM has developed an intelligent interface for DECO single-spindle machines. This process has been fully certified by the manufacturer. The procedure is extremely simple and enables operators to call on the full powers of ESPRIT to program their DECO machines and any other machine operating in ISO code while retaining all the familiar facilities associated with TB-DECO. All they need to do is design or import

a 2D or 3D component and introduce it to ESPRIT, which then familiarises itself with the contours. In the next step, a sequence of operations can be created manually, semi-automatically or fully automatically via the KBM (Knowledge Base). To simplify the process and to make representations of a machine even more realistic, ESPRIT automatically updates tool fixture settings in response to tool configurations. Synchronisation operations and constraints can then be implemented in either ESPRIT or TB-DECO with equal ease. Then all you need to do is to run the simulation, bearing in mind the full extent of the machine environment and managing all aspects of collision monitoring to ensure that the result obtained meets customer requirements. Once these checks have been completed, ESPRIT creates an exchange file in "TTF" format which can be read by TB-DECO. Thereafter, this software picks up the commands involved in creating a PNC file for use on the machine.

To summarise

ESPRIT is the software solution which enables you, by virtue of its intuitive interface and its very high degree of automation to create tool sequences quickly and easily for you to machine simple or complex components on all types of machine, regardless of the size of production run.

To obtain more information about ESPRIT or the TB-DECO interface, please visit:



www.icam.ch
www.dptechnology.com