

DESIGN INTEGRATION FOR SCREW COMPRESSORS

...is the procedure that connects software components required for producing three-dimensional CAD models and manufacturing drawings with calculation of thermodynamic process, fluid flow and solid structure stresses and strains. The software code DISCO - Design Integration for Screw Compressors is a tool interface for screw compressor design developed with aim to reduce intensive designer efforts and to speed up the design process. A number of input parameters required for describing machine geometry and operating conditions is small and introduced only once, uniquely for all design software. Because of that, a control over the design process is easy to maintain. This allows that the modifications made to the compressor model in any of the design stages are cross referenced through all software components. Compared to a classical design processes, such an approach saves both the computer resources and time.

