5-axis milling machines in a class of its own

With machining center „penta GK“: precision up to 0,05 mm

Specialist for the wood and furniture industry

The Kraft Maschinenbau GmbH is focused on machines and plants for the wood and furniture industry. During the development of the 5-axis machining center “penta GK” for wood and plastic processing, a SINUMERIK 840D sl provides highest productivity thanks to modern CNC features.

Flexible use in several sectors

The machines penta GK 2010 and 3015 meet all the requirements, even of the plastic processing and of the model and mold making. Thereby, features as 3+2 milling strategies and simultaneous 5-axis processing bring solid productivity advantages, as the processing time which is significantly reduced without detriment at the surface quality.

Tandem operation thanks to “Safety Integrated”

The penta GK are equipped for tandem operation: When components require less than half of the machining space, one half of the room can be used for the setting up while the other one is used for processing at the same time. This is possible because the integrated safety functions (SINUMERIK Safety Integrated) can ensure a safe speed limit (Safe Limited Speed).
SINUMERIK Operate – flexible and adaptive programming

SINUMERIK Operate offers three programming methods to choose from: ShopMill with self-explanatory, graphical animated surface for a simple and shop-oriented work step programming, Program-Guide as cycle support as well as the classical G-Code-programming to DIN/ISO. The latter is in particular worth in case of larger series, because thus the workflows can be described for highest productivity and precision in an optimized way.

"With the user interface SINUMERIK Operate and the technical package SINUMERIK MDynamics, great features are added to the SINUMERIK 840D sl."

Andreas Wapelhorst, technical director at Kraft

User interface in Windows “look & feel”

The new user interface SINUMERIK Operate resembles in many details the user interface of a normal Windows-PC. Explorer structures, multi-window-technology and a lot of functions that are usual in Windows as “copy&paste” provide a mostly intuitive operation. Even workers without programming experience can produce safe and functional programs in a short period of time thanks to the clear structure and presentation at ShopMill.

New technology for more productivity

MDynamics, the new technical package of SINUMERIK enables highest precision and surface quality in even less processing time. This is based on the new motion control “Advanced Surface”, among others with integrated "look-ahead" function. Thus travel and machining speeds can be optimized even more and so higher productivity can be achieved.

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