

Press-Release

Bulky parts

Large, long and odd shaped parts

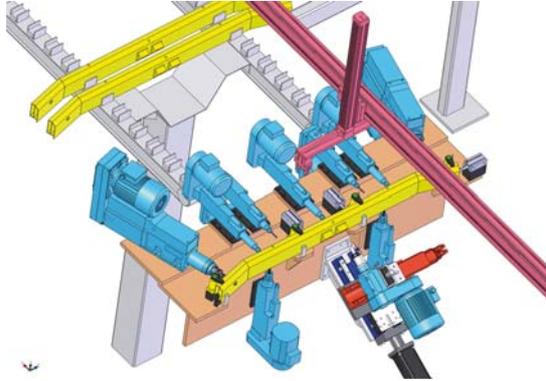
... can often become very difficult to integrate in a manufacturing process when attempting to perform multiple operations on conventional CNC machines. Limited space or axis travel, one sided spindle & tool accessibility are common restrictions when trying to design and fit multiple tool requirements on a rigid machine concept. In addition, cycle time and accessibility issues from all sides and angles can make a single tool 3-axis CNC machine option a losing proposition.

Now is the time for compact and self-contained single tool machining units from SUHNER. These units are of modular design, which can be positioned in any direction around the work piece. In most cases, all operations can be performed in one cycle, thus reducing the machining overall cycle time to a minimum. Since all tooling modules work simultaneously, the cycle time is basically determined by the longest single tool operation and not the addition of all the tools. There are no limitations to parts size and the number of tools that are engaged at the same time.

SUHNER offers a complete, well balanced spindle program with optional feed systems (pneumatic, hydraulic and CNC) available in a quill feed or slide and spindle design. In combination with modern tooling technology SUHNER machining units can achieve the highest degree of performance and accuracy.

Solid carbide tools permit cutting speeds up to 300 m/min in aluminum at feed rates of 0.5 mm/rev. These rates result in very short cycle times and extended tool life.

Pictured transfer machine (Pic.1) illustrates a drilling station for an aluminum profile with 11 drilling operations. The actual machine time is 8 seconds. The machine is used in 3 shifts and produces a finished part in less than 20 seconds.



Picture 1



Picture 2

Depending on tool diameter, some of the drilling station units operate at 12,000rpm.

A special purpose machine is shown in picture No. 2. This machine provides 33 holes to an automotive fiberglass reinforced plastic part in less than 2.5 seconds! Years of experience and research with special tools and material paid off and resulted in exceptional hole quality beyond customer expectations.

For all chip making operations including drilling, tapping, milling, reaming, flow drilling, boring, turning, inside and outside grooving etc... with internal or external coolant supply, SUHNER offers the right and most comprehensive machining unit program.

Further information

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