



Automation expert.

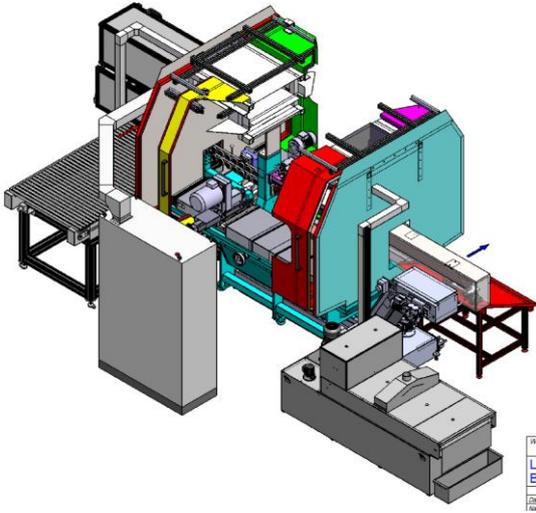
SUHNER

Press release

No matter how big or long - for every task the right machine

Large-volume workpieces or long sections that are processed by machining from multiple sides, often fit poorly or not at all, in standard machines.

If additionally a high output is required, the construction of a special machine makes economic sense.



For such workpieces the usual fixtures are no longer sufficient and extraordinary solutions are necessary. To fix safely and accurately a long profile or bulky workpiece, over its entire length, without deforming, every time is a brain-teaser for the designer. In the illustrated system, the operations are done simultaneously from two sides.



The modular system of *SUHNER* enables the creation of special machines for various applications of profile machining. The illustrated machine produces precision rail guides and was designed and built by the *SUHNER* division for special machines.

The rapid transfer of the pieces was as important as the precise and rapid loading, unloading and fixture. The geometry of the fixture device allows simultaneous drilling, in steps of the holes in tool steel. The high pressure internal cooling of the carbide tools allows an excellent drilling performance. The installation consists in 2 spindles that operate **in less than 3 min 140 drilling operations**, loading and unloading included. The positioning of the spindle and the actual drilling operation takes place in about 2 seconds.



The automatic loading and unloading allows predictable autonomy. Stacks and checking the position and the feeding of bulky workpieces must be adapted individually to the workpieces.

Assembly profiles, profiles for windows and doors, but also steel profiles of any kind are often cut for further cost optimization from bar stock. In such projects, additional considerations for the optimal exploitation of the raw material and the handling of the remaining piece in the machine cycle are necessary.



For further information contact:

Otto SUHNER AG

Automation expert.

Postfach

CH-5201 Brugg

phone +41 56 464 28 28

fax +41 56 464 28 32

www.suhner.com

automation.expert.ch@suhner.com

SUHNER Industrial Products Corp.

Hwy. 411 S at Suhner Drive

P.O. Box 1234

USA-Rome, GA 30162-1234

phone +1 706 235 80 46

fax +1 706 235 80 45

www.suhner.com

automation.usa@suhner.com

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