

2014

SCHAUB

fertigungs|TECHNIK

brochure
Extruding press
support
machineries

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1 Engineering made in Baden-Württemberg

We the Schaub Fertigungstechnik are based in south west Germany near to the boarder to France and Switzerland.

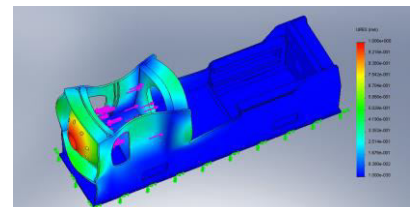
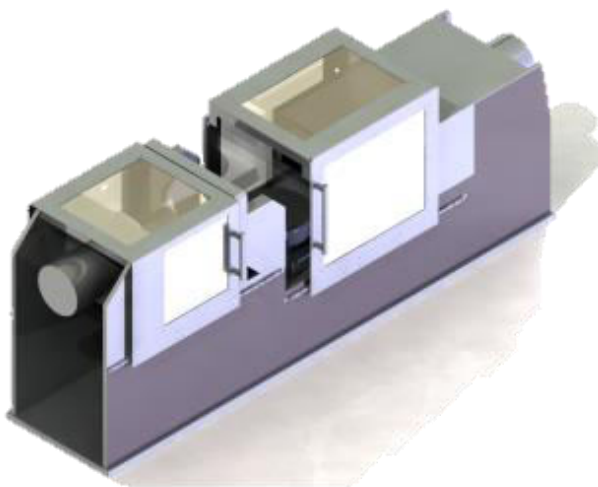


We are a modern, medium-sized family enterprise.

We offer you custom designed and self-manufactured machineries for the streamlining of our extrusion plant.

The use of state of the art engineer and calculation software allows us to optimize our design. 3D Models are used to create machining programs for an effective manufacturing process.

The complete manufacturing process is executed in-house, what allows us to offer you a modern and well-priced machine ‘‘Made in Germany’’.



Finite element analysis of machine frame

On the following pages we will show you technical Information for customized machines for the Aluminum extrusion production lines.

Technical details like pressure ring diameter etc. is designed customer-specific. The given values should be understood as sample.

Don't hesitate to contact us, for a free quotation for the dimensions of your product line.

To assure you a high quality product, we only use high class components, to reduce maintenance cost and time!



Klaus Schaub

2 Aluminum shearing machine

To improve the cleaning of your tools we have developed our aluminum shearing machine. The user-friendly design of the machine with a 45 ° degree tilted table with automatic height adjustment for cutting simplifies the work for the operator tremendously.

For our Machinery components only high end products are used:



Automatic tool height adjustment!

Design and safety equipped to meet European and International Standards!

Simple operation with minimal training costs!

Streamlining your production line!

Technical data for the shown machine:

Hydraulic system:

pressure: 220 bar
power: 15 kW

technical data shearing process:

shearing force: 720kN
shearing stroke: 500 mm

tool size :

Outside diameter: 205 mm to 350 mm
Tool height: 35 mm to 250 mm

(Dimensions for you are customized, hence send us your enquiry)

Operating control

The complete system is controlled and monitored by Siemens S7 control. The positioning of the table for the shearing process is done fully automatically. With the two-hand-control the clamping and shearing of the aluminum rest piece is controlled. The operator also cannot interfere in the process, a safe operation is the result.



The machine is designed as one unit, what allows you to move the machine easily to a new location.

Oil temperature and level are continuously monitored by the SPC. Damages and breakdowns through overheating can be eliminated.

The strong guide for the blade take cutting force

- No radial forces to the hydraulic cylinder, no breakdown!
- Separate cylinder for clamping of tool



Guide for blade and tool clamping



Machine in Operation. Shearing in process.

3 Combined Demounting- and Shearing machine



An other development is the combination of demount of dies and shearing for aluminum rest in the die. This machine is useful when dies are cleaned directly after demounting.

The machine in the picture above was customized for a client with the following specifications:

Technical details demount press:

Force: 800 kN
Tool Ring: $\text{\O}520\text{mm} \times 200 \text{ mm}$
Die: $\text{\O}160 \text{ mm}$ bis $\text{\O}430 \text{ mm}$

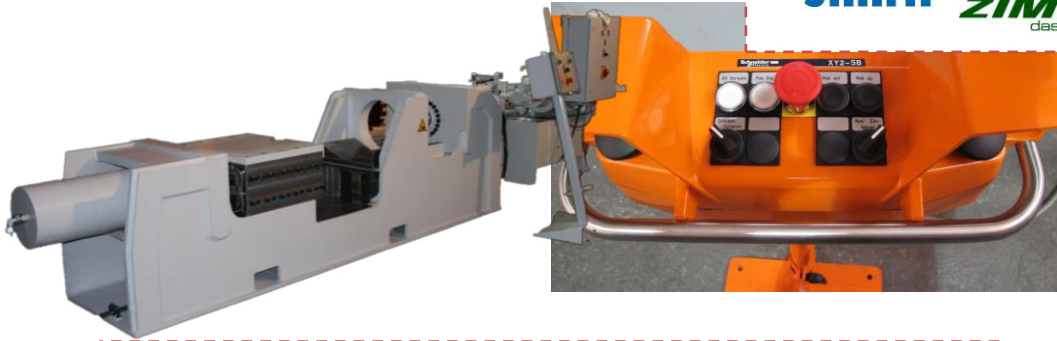
Technical details shearing:

Cutting force : 950 kN
die: $\text{\O}160\text{mm} \times 135 \text{ mm}$ to $\text{\O}430\text{mm} \times 200 \text{ mm}$

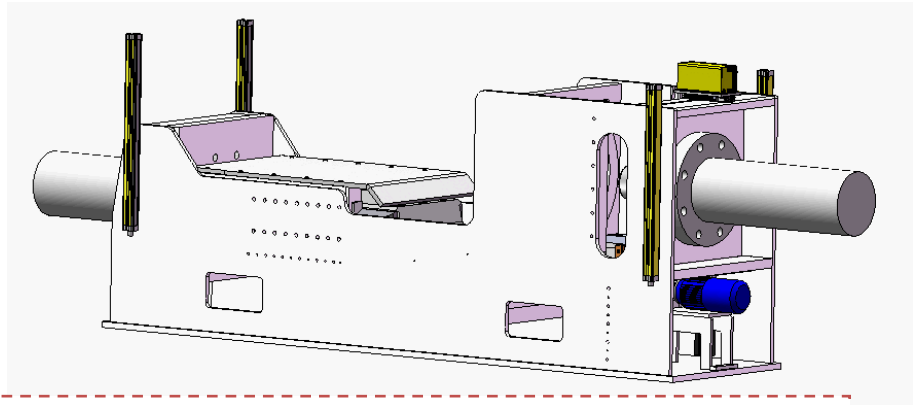
Hydraulic details:

power: 22 kW
pressure: 310 bar

For our Machinery components only high end products are used:



Combination of demount press and shearing machine . On the left side the simple control of the machine.



Machines are designed following European Standards.

4 Logistics and auxiliary equipment

Our systems complete the modern high productive extrusion plants.

Handling and transportation solution for your presses are also designed by us.

Contact us for your customized solution.

