

# User report

Roller shutter production



Clinching



Designation	C-shaped stationary machine
Type	MFG 500/150 H in special design
Ident no.	0000099307
Serial no.	900021835
Manufactured	03/2021
Order	593990
Number	1 piece
Other	MFG-045

Component group	External Venetian blinds
Component	Overlapping consoles
Handling	Manual workstation, stationary

## Task

The production of this machine contained two relevant aspects. After successfully running for many years, the formerly used previous model had to be overhauled. Furthermore the geometries of the workpieces had changed and this fact would have led to major adjustments of the tool holders.

## Solution

Producing a new state-of-the-art machine which met the current safety standard was only slightly more expensive than overhauling the old machine. So both problems were solved by using the latest machine technology.



MFG 500/150 H

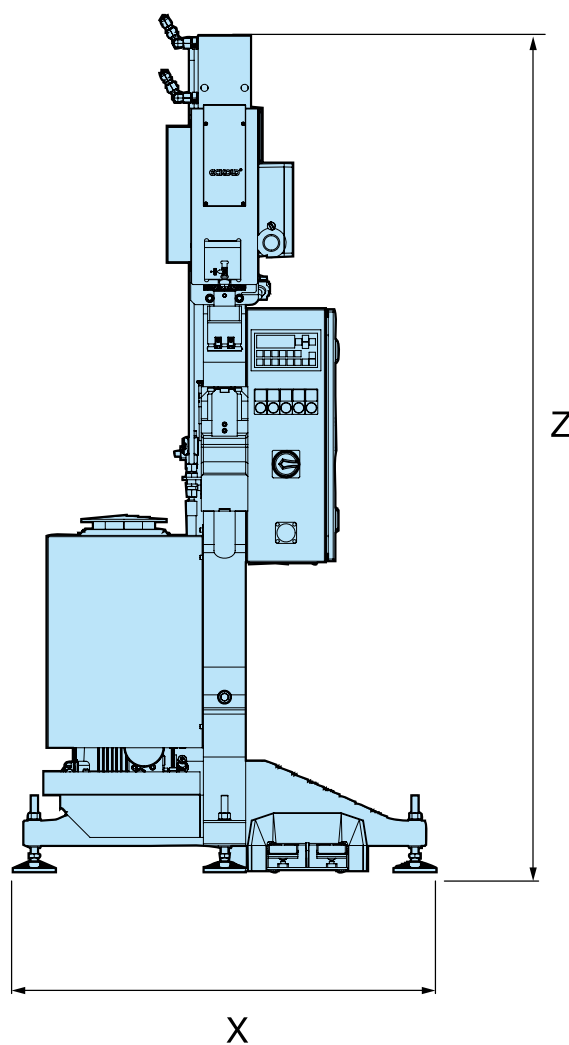
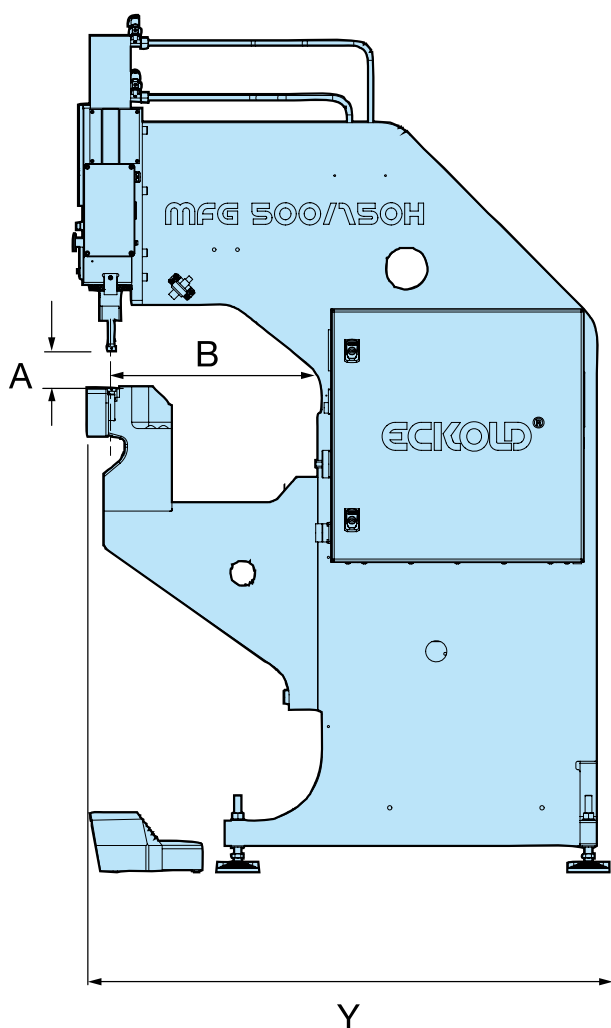


### Customer rating:

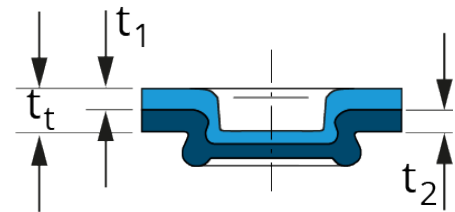
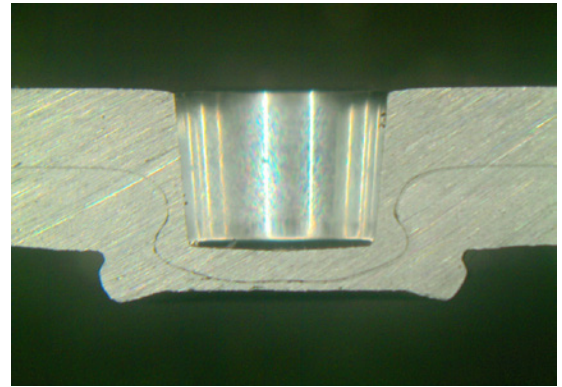
- Optimal tool design
- Good consulting
- Clear and compact design of the system
- Sturdy machine design
- Easy handling and maintenance

Name	C-shaped stationary machine
Type	MFG 500/150 H in special design
Ident no.	00000099307
Drive	hydraulic
Pressure force	max. 150 kN at 500 bar
Stroke length	max. 100 mm
Connection	400 V / 3 Ph / 50 Hz
Weight	approx. 1400 kg

Opening width	[A] [mm]	87
Throat, horizontal	[B] [mm]	487
Width	[X] [mm]	1003
Length	[Y] [mm]	1268
Height	[Z] [mm]	1976

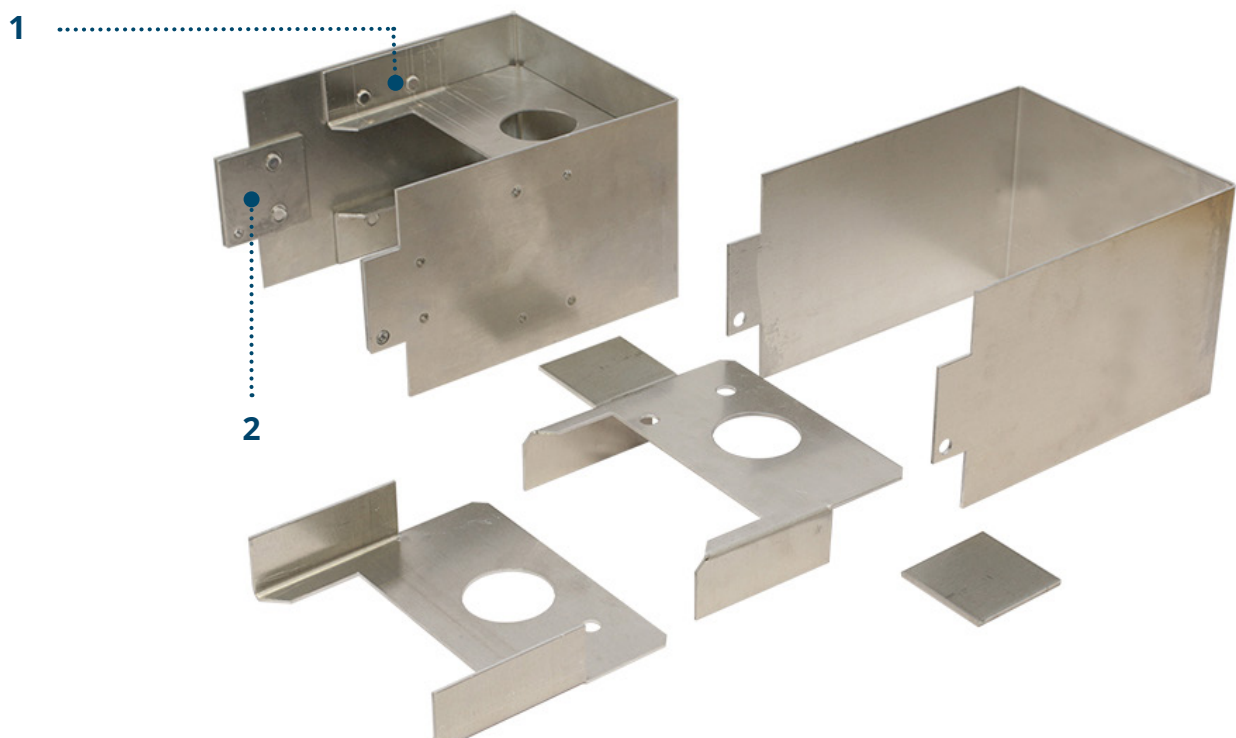


Joining task	1	2
Clinching type	R-DF 8	R-DF 8
Component	$t_1$	
Material	$t_1$ Al	Al
Punch-side layer thickness	$t_1$ 2.0 mm	2.0 mm
Intermediate layer	-	-
Component	$t_2$	
Material	$t_2$ Al	Al
Die-side layer thickness	$t_2$ 2.0 mm	3.0 mm
Number of clinching points	4 x 2	2 x 2



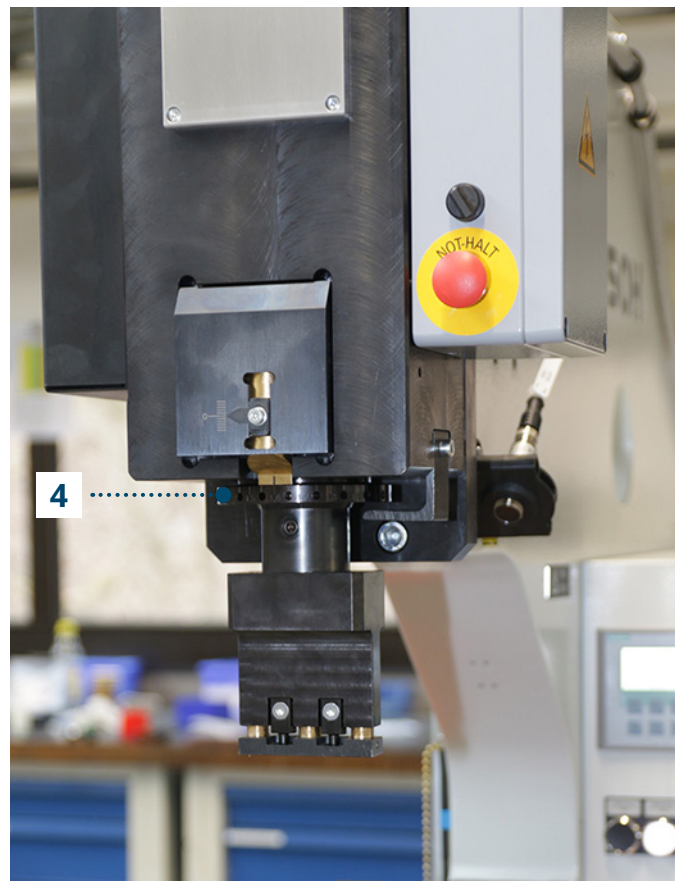
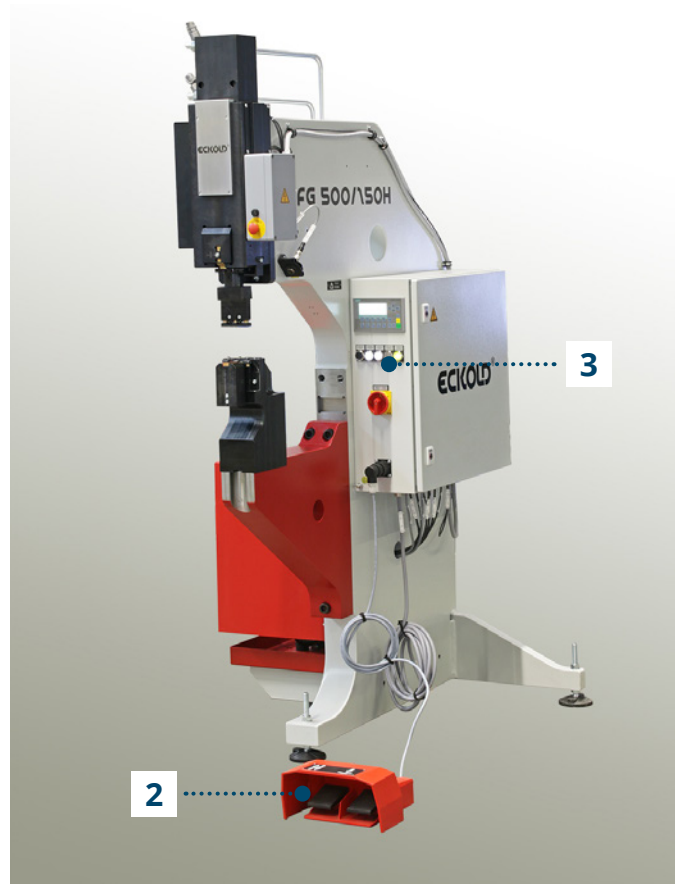
## External Venetian blinds

External Venetian blind window systems are specially developed for exterior insulation and finish systems (EIFS) and ventilated facades or can be fixed in an on-site shaft. The clinched components are installed in the guide rail area underneath the cover panel.



## Universal, sturdy machine technology

Choosing from a series of universal c-shaped stationary machines the customized machine is adapted to the individual requirements of our customers and provided with appropriate features.



## Equipment adjusted to customers' requirements for an optimal series production

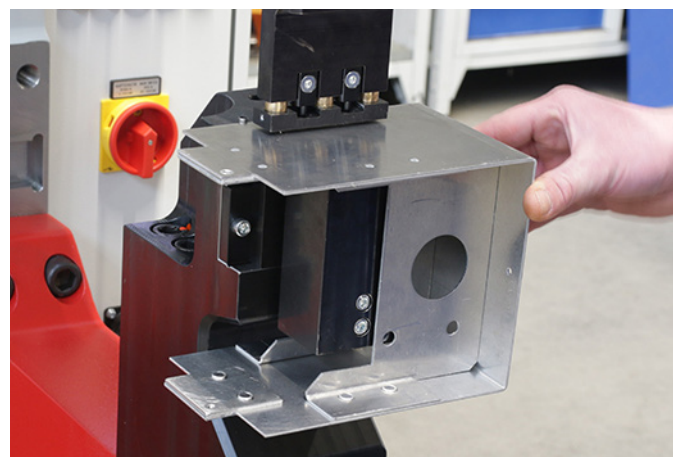
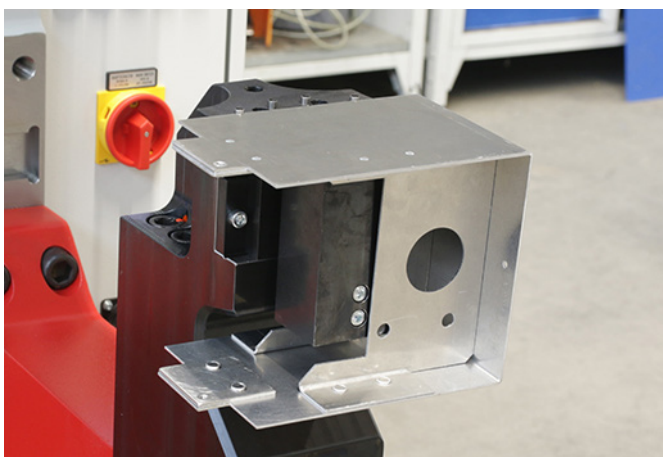
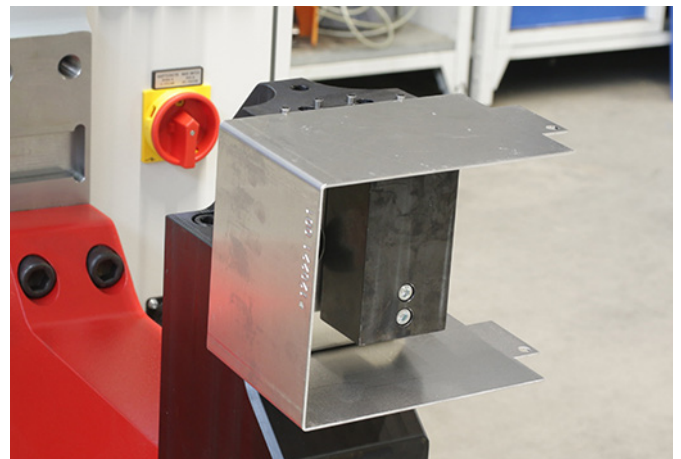
Manual work station in consideration of ergonomical requirements and safety aspects.

### Features

- 1 Hydraulic drive
- 2 Stroke release via foot switch
- 3 Easy control and operation
- 4 Adjustable stroke limitation

### Insertion of the components

Mechanical stops lead to an exact positioning of the components, resulting in a two-step joining process. The arms are actuated by means of a foot switch, and the safety control moves the arms to their working position. The working stroke and joining process is performed after re-operating the foot switch. Various workpiece thickness combinations can be joined with a single tool kit.



# ECKOLD GmbH & Co. KG

## Trading successful for over 80 years

Since our company was established in 1936 by Walter Eckold, the only aspect of our business not to change from that year to this has been our commitment to our customers. Our priority remains to provide our customers with economical and environmentally viable cutting edge technological solutions to their ever changing manufacturing processes.

During our 80 years of trading we have amassed a knowledgeable highly skilled engineering workforce in our specialist areas of shaping and joining sheet metal. These specialist skills enable us to quote from one off standard pieces of equipment to fully tailor-made automated robotic systems. A full range of all our specialist techniques can be found in all sheet metal, craft and industry work-places. Join with us, the successful sheet metal experts, to shape your future metalworking solutions.

## Service from A to Z

- Test runs and analyses for customers
- Production of sample sheets / workpieces
- Feasibility studies for tool dimensioning
- Process planning and implementation of technical solutions
- Production at own factory
- Commissioning at customer premises
- Routine maintenance service
- Customer support for process optimisation
  - Assistance in teach-in process for robot positions
  - Production of microsections / assessment of clinching point quality
  - Online support
- Continuous assistance from commissioning to SOP
- Training of operators / maintenance technicians / machine experts

## Facts & figures

- Founded 1936
- Products in operation in more than 100 countries
- More than 25 sales partners worldwide
- Sales offices in Great Britain, Hungary, USA, Switzerland, Japan and the Czech Republic
- Certified according to ISO 9001:2015



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