

ALIKO

Press brake retrofit solutions

SP 5600-400
RETROFIT

Smart way to increase productivity
www.aliko.fi

ALIKO RETROF

How can we help?

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Business Development Manager

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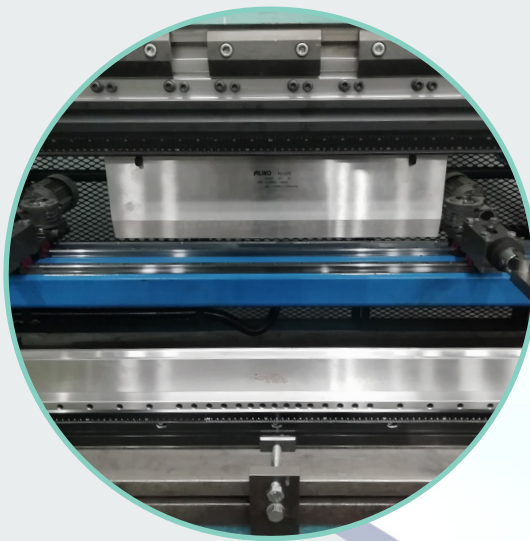
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ALIKO PRESS BRAKE TOOLS

Aliko has wide range of bending tool solutions, such as punch frames, tips and 1V-tools.

TOOL CLAMPING p.14

Fast and long-living tool fastening solutions ensure machine productivity



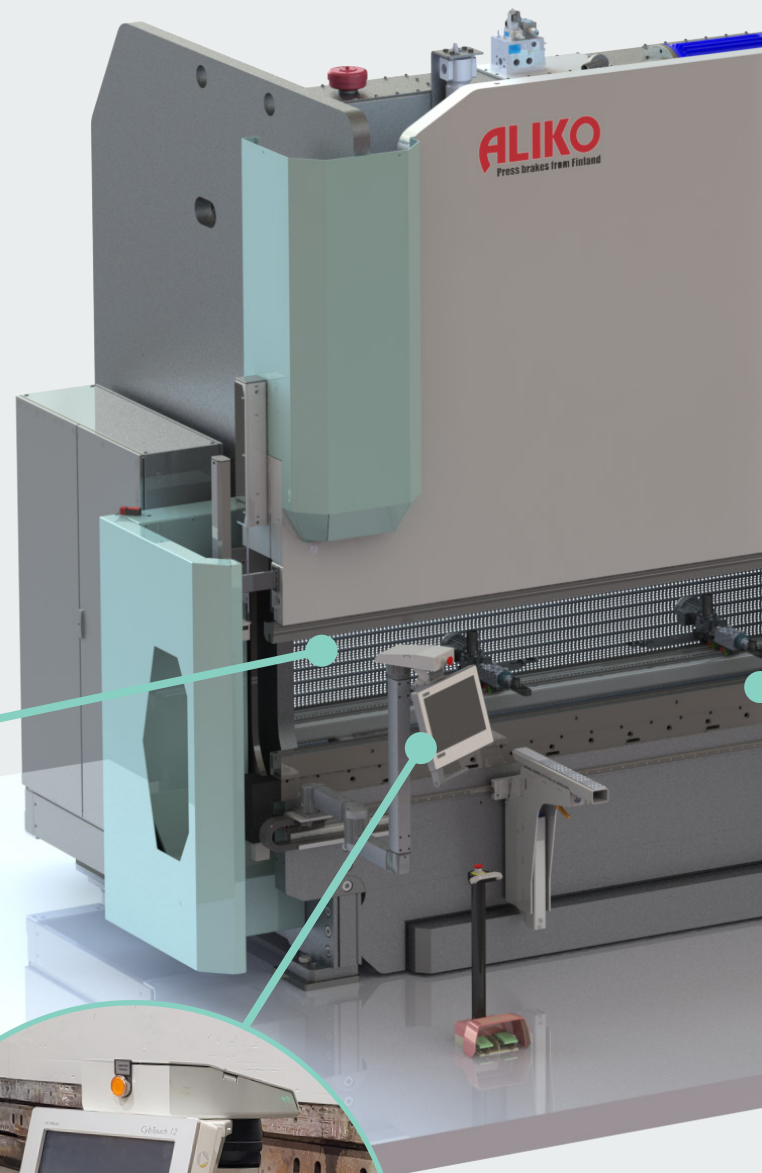
SAFETY SYSTEM p. 6

Lazer Safe safety system increases machine productivity and safety



CNC CONTROL p. 4

The powerful Cybelec control makes operator's work easier (2D/3D)

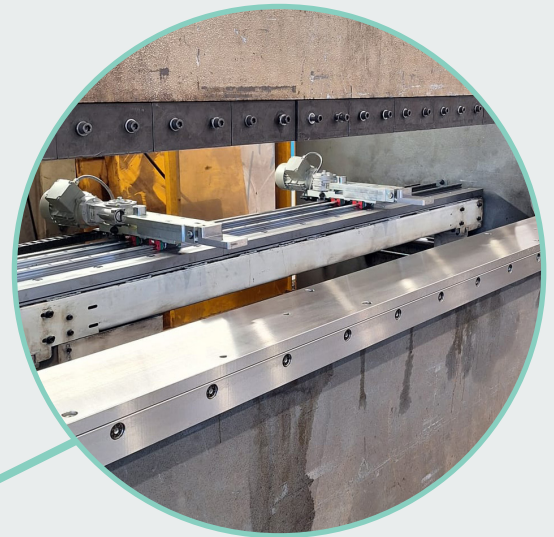
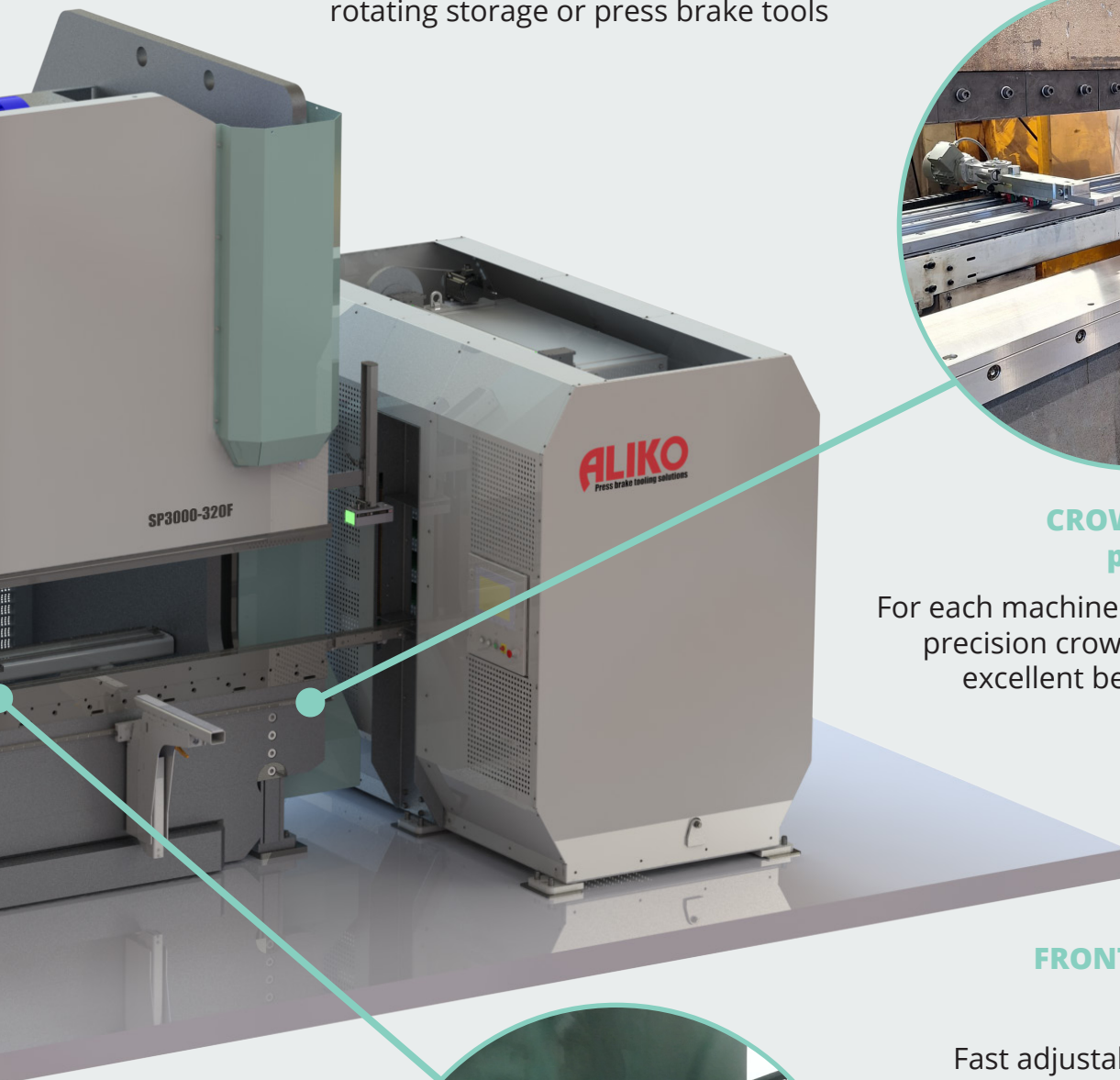


2-,4-,5- on
back g

IT SOLUTIONS

ALIKO TOOL STATIONS

- **Aliko Tool station**
for easy tool change and storage
- **Aliko Tool station L1000**
rotating storage and lifting system for press brake tools
- **Aliko Tool station L550**
rotating storage or press brake tools



CROWNING p. 8

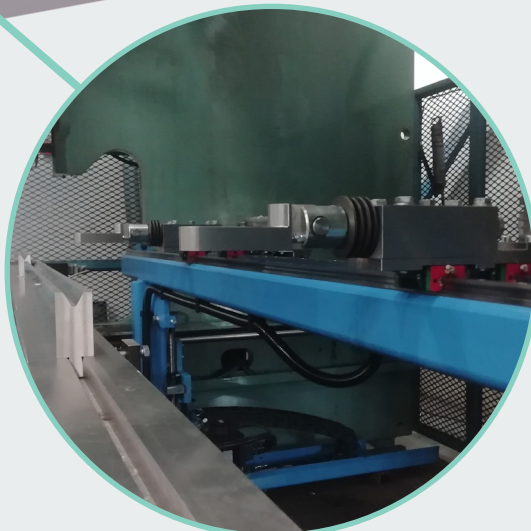
For each machine size optimized high precision crowning guarantees excellent bending quality

FRONT SUPPORTS p. 10

Fast adjustable standard front supports or fully automatic sheet followers

BACK GAUGE p. 12

6-axis high performance gauge systems are fast and accurate



ALIKO
Press brakes from Finland

CONTROL REPLACEMENT



**New CNC-control
can also be
installed into
an existing housing**

CYBELEC CYBTOUCH 12 PS

- 12" large, vivid and high-contrast fully touchscreen
- Simple pages, clear display, large keys
- Intuitive user-friendly interface
- Controls 4 axes (Y1-Y2-X-R)
- Automatic bend sequencing (optional)

CYBELEC VISITOUCH PAC

- 19" large and modern streamlined glass surface touch screen
- Easy operating thanks to the user-friendly HMI
- 2D graphical profile drawing and program solution
- Intuitive programming in 2D and numerical
- 3D viewers
- Automatic bending sequence calculation
- Internal backup and restore functions

CYBELEC VISITOUCH PAC MX

- 19" large and modern streamlined glass surface touch screen
- Easy operating thanks to the user-friendly HMI
- Intuitive programming in 3D, 2D and Numerical
- Full 3D visualization and simulation
- Automatic solutions of complex parts: automatic bend sequencing, gauging, tooling and auto segmentation
- Internal backup and restore functions

CYBELEC CYBTOUCH 8 G

- High-contrast touchscreen, with vivid colors
- Simple pages, large keys, clear display with all the information the operator needs
- Intuitive and user-friendly interface
- Complete programming of parts in seconds

CYBELEC CYBTOUCH 12 G

- Manages up to 2 back gauges axes and 2 front gauges axes
- High-contrast touchscreen, with vivid colors
- Simple pages, large keys, clear display with all the information the operator needs
- Intuitive and user-friendly interface
- Quick set up

SAFETY SYSTEM



LAZER SAFE SAFETY SYSTEM

Lazer Safe control, safety and operator protection systems for press brakes, which maximise productivity and performance, streamline operation and enhance functionality and protection.

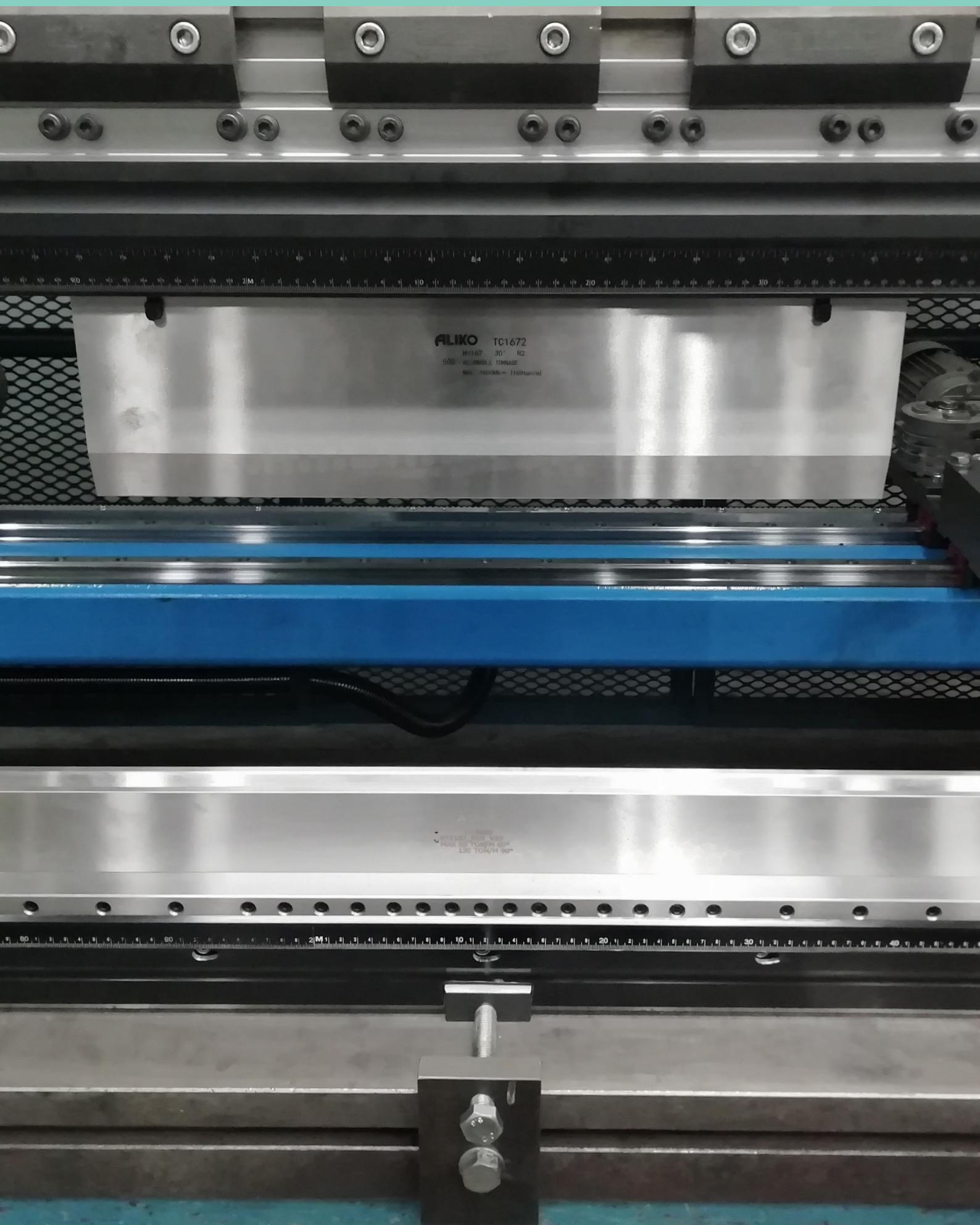
Integrated optical protection has never been simpler and with a wide range of options available, your press brakes can be configured with the perfect balance of safety and performance versus cost to suit any market level. Each optical protection solution comprises a laser transmitter and receiver set

Aliko Oy Ltd is the regional representative of Lazer Safe Pty. Ltd, one of the worldwide famous manufacturers of optical safety devices since 2013. Aliko is the service and distribution partner of Lazer Safe in Finland, Sweden and Baltic countries.

- Control, safety and operator protection
- Increases productivity
- Continuous ram speed and stopping time surveillance
- If an obstruction is detected the machine is automatically stopped
- Easy to adjust after punch change

**We also offer new
front and back light
curtains, safety fences
and gates.**

CROWNING

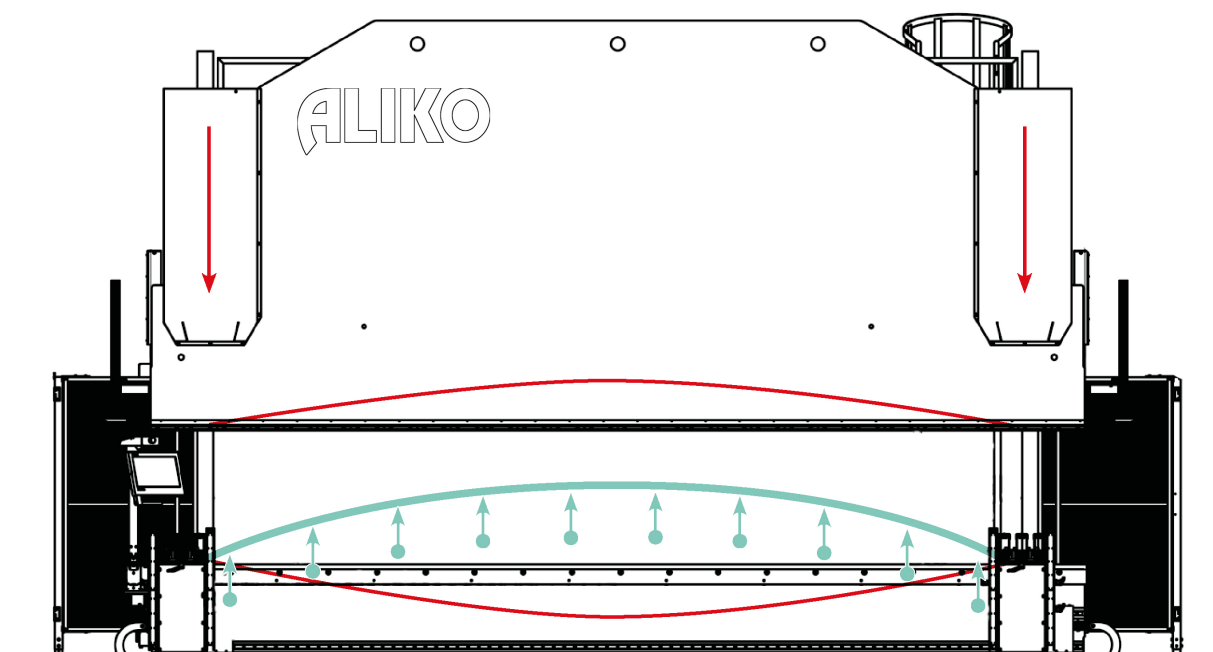


ALIKO CROWNING

- Optimized construction according to each press brake model
- Automatic parameter calculation from press brake CNC control
- Width of CNC crowning 95 or 250 mm
- Wide range of use, ideal crowning for thin sheet metal work and heavy bending
- Selflocking double wedge system
- Can take high local loads
- Additional fine adjustment in every 300 mm
- Low-maintenance

ALIKO CNC VARIO CROWNING 400

- CNC adjustment of crowning wedges each 500 mm
- Can take high local loads, max 600 tn/m
- Individual adjustment by servomotors (Omron) from control panel
- Max crowning 7 mm



FRONT SUPPORTS



STANDARD FRONT SUPPORT

- Max payload 250 kg/pc
- Vertical adjustment lightened with gas cylinder, adjustment range 250 mm
- Light lateral transfer with linear guides
- Sliding plastics on the surface of the front brackets
- Not connected to a power source, easy to add or remove

HEAVY DUTY FRONT SUPPORT

- Max payload 1000 kg/pc
- Sliding rollers on the surfaces of the front brackets
- Light lateral transfer with linear guides
- Vertical adjustment lightened with gas cylinder, adjustment range 300 mm

ALIKO STANDARD CNC SHEET FOLLOWER

- CNC-controlled front workpiece support
- Max static load 300 kg/pc
- Max lift 200 kg/pc
- Support area width 350-600 mm, length 1350-2000 mm
- Up/down movement 250 mm
- Maximum angle and bending angle 60°
- Fully automatic adjustment, manual adjusting between programs not needed

ALIKO HEAVY DUTY CNC SHEET FOLLOWER

- CNC-controlled front workpiece support
- max static load 1000 kg/pc
- Max lift 500 kg/pc
- Support area width 350 mm, length 900-1400 mm (aprox 2 m from the bending line)
- Up/down movement 200 mm
- Maximum angle and bending angle 60°

BACK GAUGE



Ask us about
CybeleC softwares
and Metalix MBend
for office use.

2-AXIS BACK GAUGE (X, R)

- Heavy duty construction
- Forward/backward movement (X) 1000 mm CNC-controlled
- Up/down movements (R) 300 mm CNC-controlled
- Back gauge finger transversal movements (Z1, Z2) – manual

4-AXIS BACK GAUGE (X, R, Z1, Z2)

- Heavy duty construction
- Forward/backward movement (X) 1 000 mm CNC-controlled
- Up/down movements (R) 300 mm CNC-controlled
- Back gauge finger transversal movements (Z1, Z2) motorized or CNC-controlled

5-AXIS BACK GAUGE (X, X1, R, Z1, Z2)

- Heavy duty construction
- Forward/backward movement (X, X1) 1000 mm CNC-controlled
- Up/down movements (R) 300 mm CNC-controlled
- Back gauge finger transversal movements (Z1, Z2) CNC-controlled

6-AXIS BACK GAUGE (X1, X2, R1, R2, Z1, Z2)

- Heavy duty construction
- Forward/backward movement (X1, X2) 1000 mm – CNC-controlled
- Up/down movements (R1, R2) 300 mm – CNC-controlled
- Back gauge finger transversal movements (Z1, Z2) – CNC-controlled

9-AXIS BACK GAUGE (X1, X2, X3, R1, R2, R3, Z1, Z2, Z3)

- Heavy duty construction
- Forward/backward movement (X1, X2) 1000 mm – CNC-controlled
- Up/down movements (R1, R2) 300 mm – CNC-controlled
- Back gauge finger transversal movements (Z1, Z2) – CNC-controlled

GUILLOTINE SHEAR BACK GAUGE MODIFICATION

- Accurate and fast positioning
- Durable
- X-movement extension up to 1500 mm
- Increased speed of movement
- Modern linear bearings

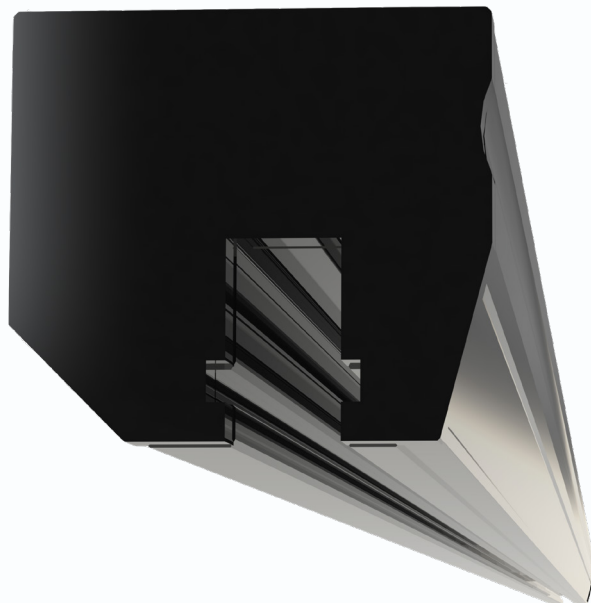
UPPER TOOL FASTENING SYSTEMS

ALIKO UPPER TOOL FASTENING SYSTEMS INCLUDE

- Mechanical upper tool clamping
- Hydraulic upper tool clamping
- Upper tool adapters (extenders)

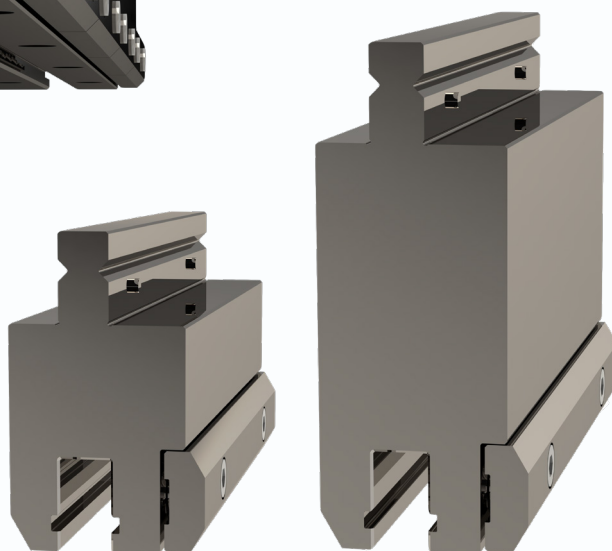
HYDRAULIC UPPER TOOL CLAMPING

- Fast fixing, positioning and replacement
- Heavy duty fixing profile
- Tool fixing loadability 250 t/m or 400 t/m
- Suitable for all press brake models

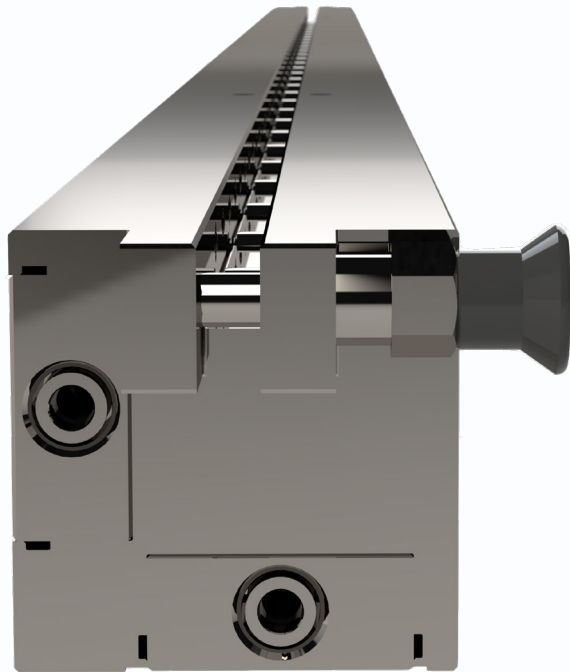


MECHANICAL UPPER TOOL CLAMPING FOR STANDARD, HEAVY DUTY AND GIANT SOLUTIONS

- "WILA"-type tooling compatible
- Maximum load 400 tn/m or 600 tn/m
- Quick fixing, positioning and replacement of the upper tool



UPPER AND LOWER TOOL ADAPTERS (EXTENDERS)

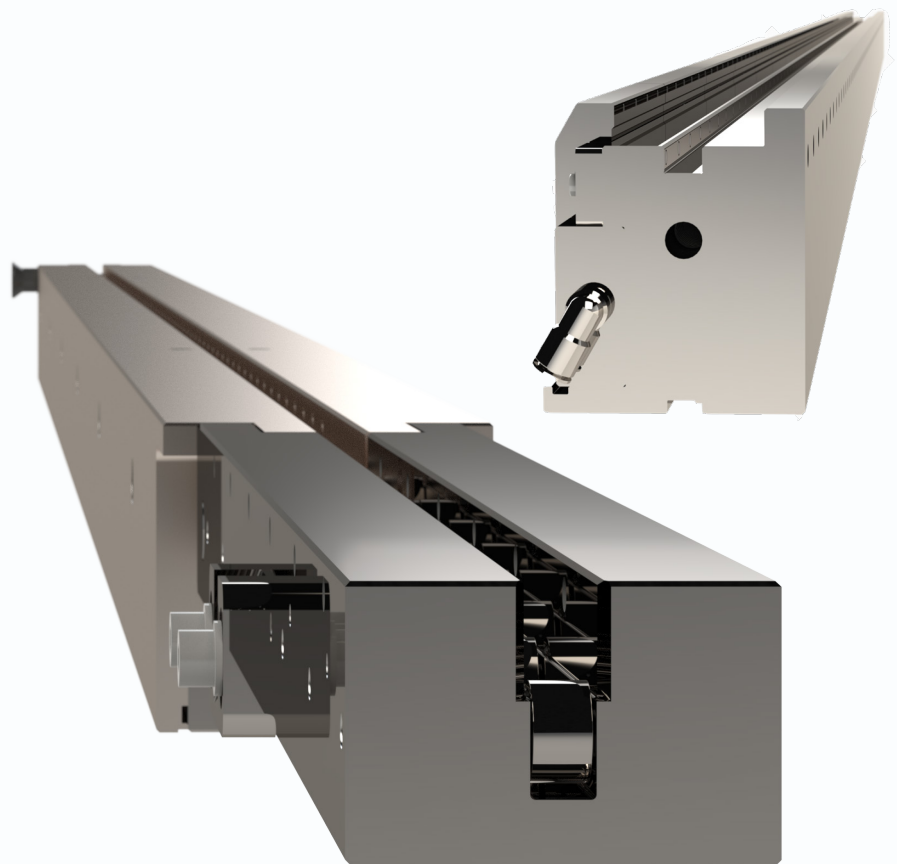


ALIKO LOWER TOOL CLAMPING SOLUTIONS INCLUDE

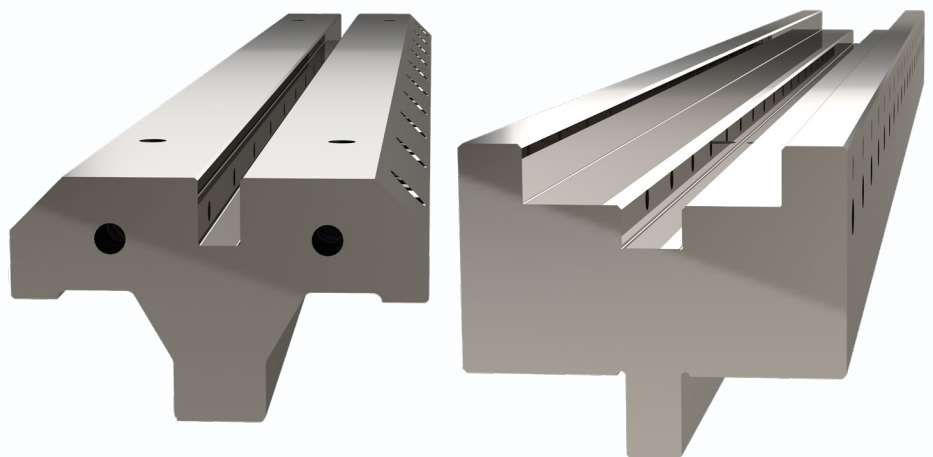
- Mechanical lower tool clamping
- Pneumatic lower tool clamping
- Pneumatic lower tool clamping with loading bridge
- Lower tool adapters

LOWER TOOL CLAMPING

- Fast tool change, automatic centering
- Lower tools easy to handle
- Possibility to use sectioning
- Loadability up to 600 t/m
- Loading bridge option



a wide range of upper and lower tool adapters (extenders) for various purposes, including the possibility of using punches with different fixing types on the same press brake



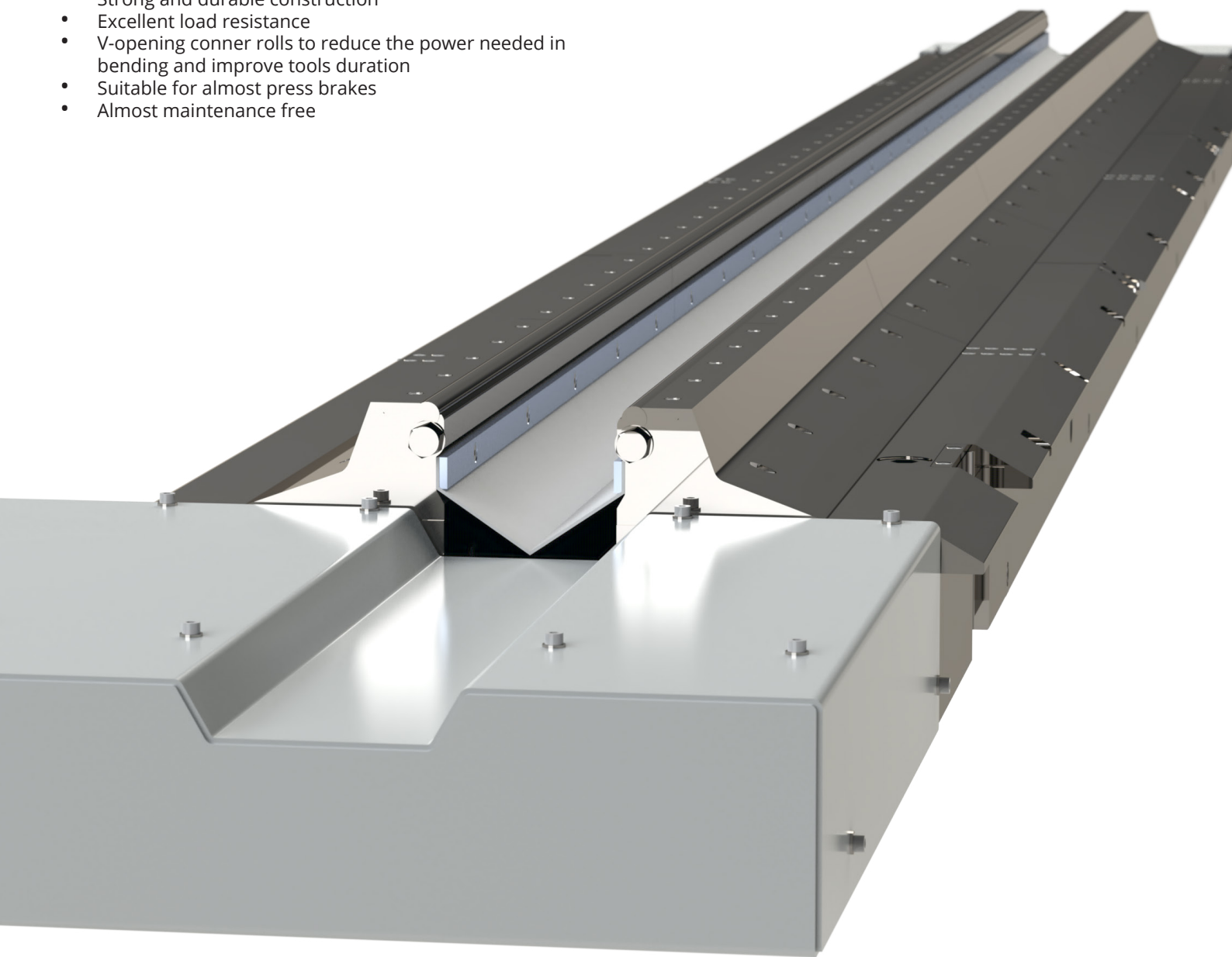
ALIKO CNC ADJUSTABLE LOWER

ALIKO CNC-VARIO DIE FAST V-OPENINGS ADJUSTMENT STRAIGHT FROM CNC-CONTROL

The design of the tool pays special attention to durability and precision control. v-opening adjustment range and tool length can be customized according to customer needs.

- Motorized v-opening adjustment, precise positioning every 10 mm
- Fast v-opening adjustment straight from cnc-control
- Strong and durable construction
- Excellent load resistance
- V-opening conner rolls to reduce the power needed in bending and improve tools duration
- Suitable for almost press brakes
- Almost maintenance free

ALIKO CNC-VARIO DIE 120



Why to choose ALIKO CNC-VARIO DIE?

- Improves productivity of the press brake
- Improves bending quality
- Helps production planning
- Improves occupational safety

Model	V-openings, mm	Height, mm	Max. loadability α 80°, t/m
ALIKO CNC-VARIO DIE 120	V20-120	200	250
ALIKO CNC-VARIO DIE 200	V40-200	330	400
ALIKO CNC-VARIO DIE 300	V50-300	350	400
ALIKO CNC-VARIO DIE 400	V150-400	350	400

MAIN CHARACTERISTICS

MAIN BENEFITS

CNC motorized V-opening 20–120 mm or 40–200 mm or 50–300 mm

ALIKO CNC-VARIO die replaces multiple sets of 1V-dies

Adjustment range 100–250 mm

Increase the press brake efficiency up to 87% due to saving time for tool changeover

Minimum adjustment step 10 mm

Fast v-opening adjustment straight from cnc-control or by assigned bending program

Time for changing the v-opening from min to max is less than 1 minute

Ultra-fast V-opening changeover, from 5 to 60 seconds

Maximum load up to 500 t/m

High load capacity and reliability

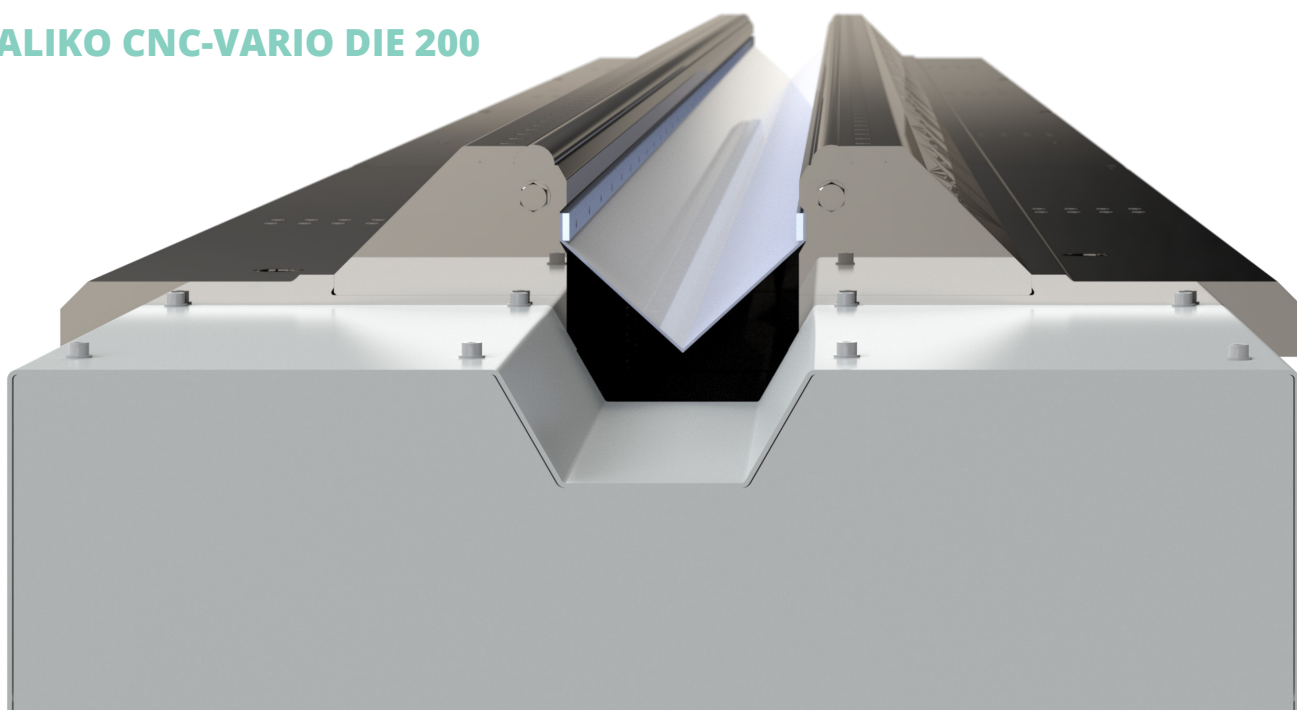
Replaceable high wear resistance corner rolls of along the entire length of the working edge

Low maintenance cost

Can be used with any press brakes

The best price/quality ratio on the market

ALIKO CNC-VARIO DIE 200



ALIKO RETROFIT



HACO ERMS30220 ALIKO RETROFIT

FEATURES

Bending length 3000 mm

Haco ERMS30220 year 2009

Cybelec CybTouch 12

Bending line laser

Bending force 220 tn

Aliko high precision crowning 250

Original movement on X- ja R-axes, added Z1- ja Z2- movement with switches

Aliko back gauge fingers

ALIKO SP4200-320 F-SERIES RETROFIT

FEATURES

Bending length 4200 mm

Aliko SP4200-320 F-Series year 2004

Cybelec CybTouch 12

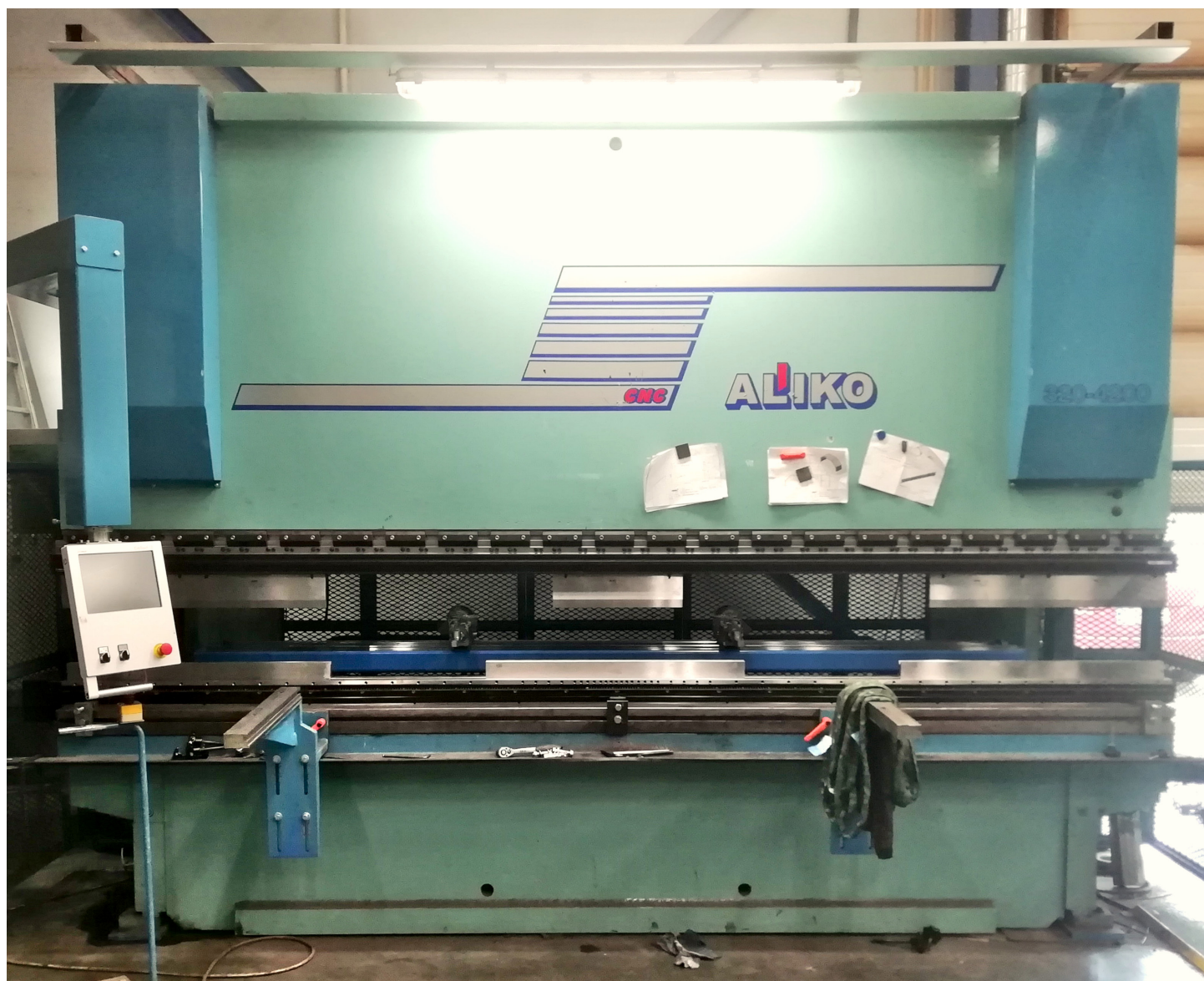
Lazer Safe safety system

Bending force 320 tn

4-axis Aliko back gauge, electrical control

Hydraulic Wila

Aliko high precision crowning 100





ALIKO RETROFIT SOLUTIONS

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