

ALIKO

Press brakes from Finland

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SP 8000-1000

NV A36

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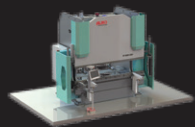
High quality Finnish press brakes for more demanding taste since 1978

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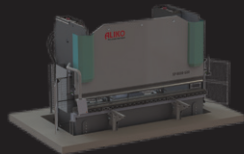
F-SERIES

The smallest member of the Aliko press brake family with 3000-4200 mm bending length and 220-500 tons bending force has floor standing solution. This F-series machine guarantees the highest quality with a very competitive price level, always delivered assembled and installation takes one day only.

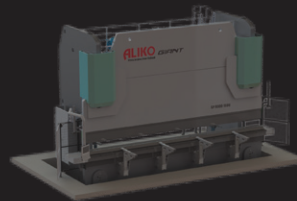
A wide range of press brake accessories is available enabling Aliko to design a machine solution to meet the customer's needs exactly. It is also possible to produce all Aliko press brakes in tandem version.



F-series 220-500 tn



Heavy Duty 500-750 tn



Giant 1000-4000 tn

Pressing force

HYDRAULIC SYSTEM

Designed in Finland high quality components assembled hydraulic system is efficient and trouble-free

LIGHTNING SYSTEM

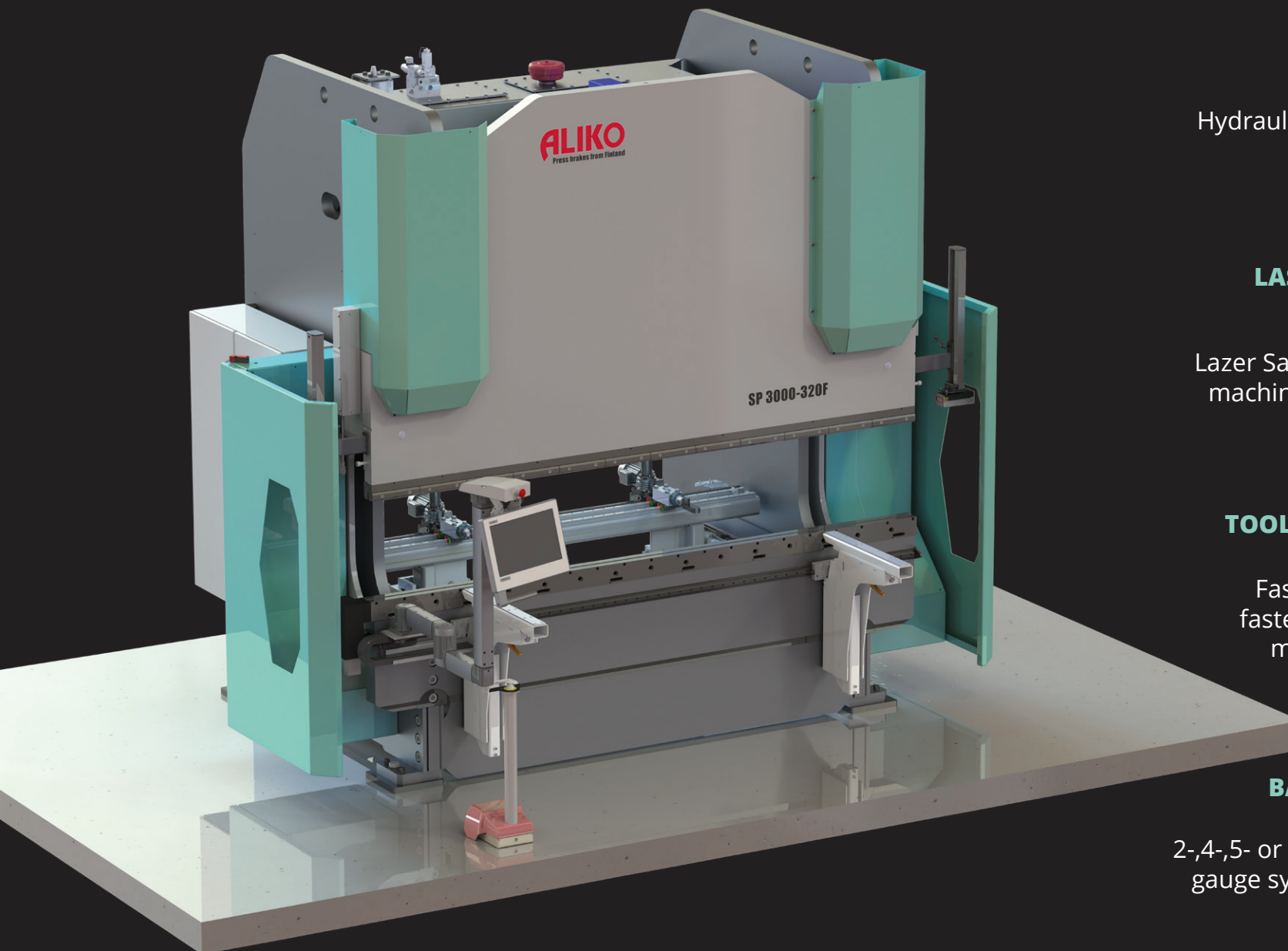
Modern LED lightning system installed on the back and front side of machine

CONTROL SYSTEM

The powerful Cybelec Visitouch 19 control makes operator's work easier

FRAME DEFLECTION COMPENSATION

Real time measuring system between upper and lower beam



ECO MODE

Hydraulic system uses power only when it is needed

LASER SAFETY SYSTEM

Lazer Safe safety system increases machine productivity and safety

TOOL FASTENING SYSTEMS

Fast and long-living tool fastening solutions ensure machine productivity

BACK GAUGE SYSTEM

2-,4-,5- or 6-axis high performance back gauge systems are fast and accurate

CNC CROWNING

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

FRONT SUPPORTS

Fast adjustable standard front supports or fully automatic sheet followers

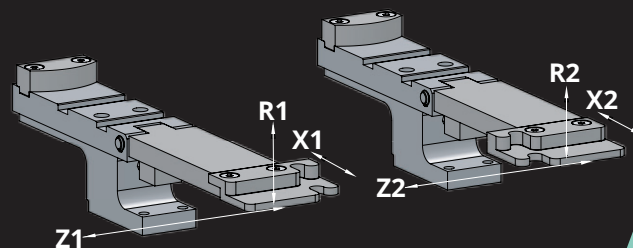


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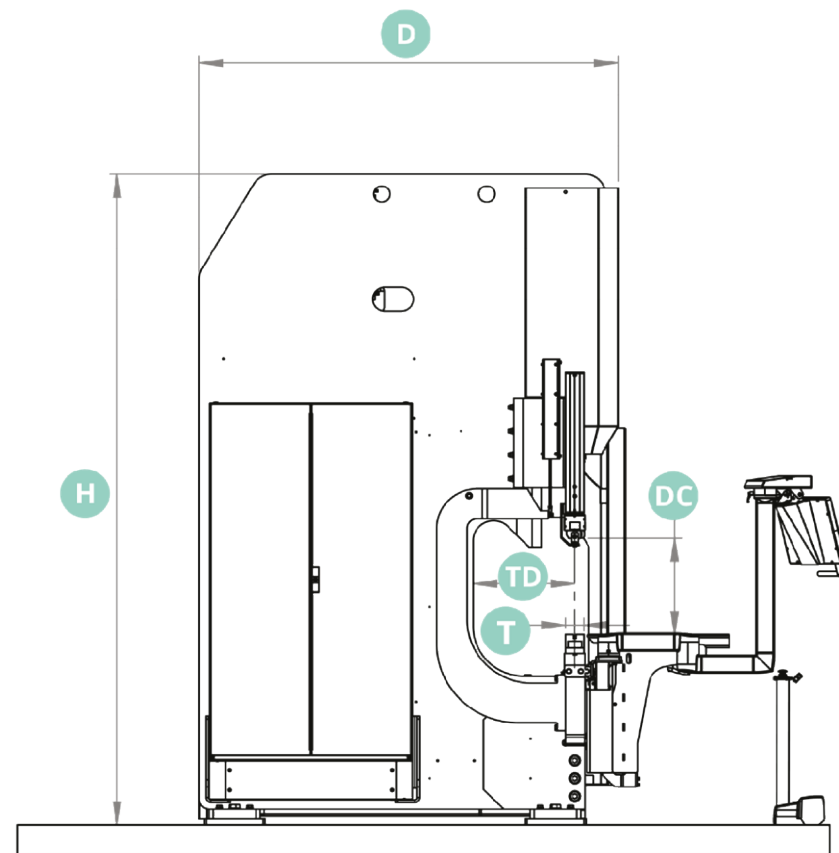
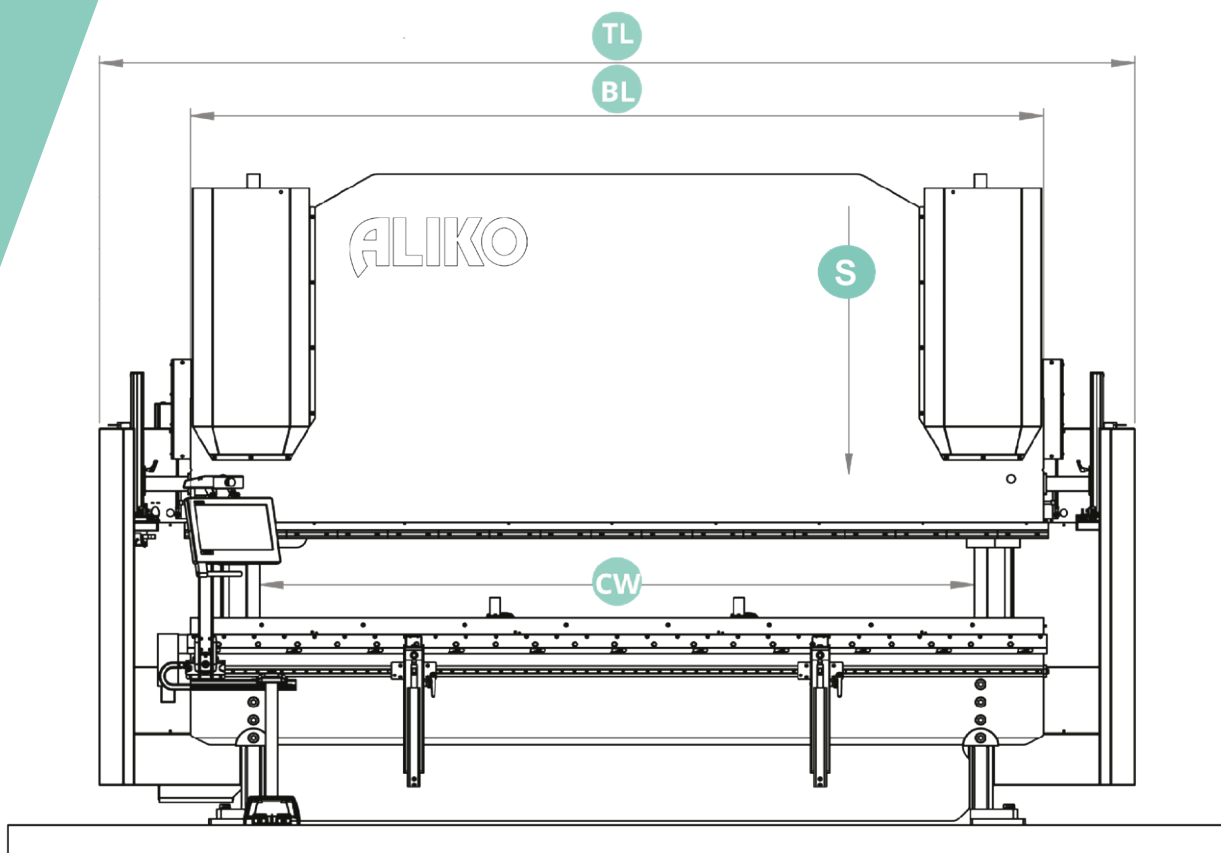
TECHNICAL SPECIFICATION - F-SERIES

		SP3000-220F	SP3000-320F	SP3000-500F	SP4200-220F	SP4200-320F	SP4200-500F	
Pressing force		2200	3200	5000	2200	3200	5000	kN
Bending length	BL	3000	3000	3000	4200	4200	4200	mm
Total length	TL	4040	4040	4080	5240	5240	5280	mm
Width	D	2100	2100	2500	2100	2100	2500	mm
Height	H	3300/3600	3300/3600	3900/4460	3300/3600	3300/3600	3900/4460	mm
Distance between side frames	CW	2320	2320	2320	3520	3520	3520	mm
Stroke	S	250/400	250/400	400/600	250/400	250/400	400/600	mm
Daylight clearance	DC	485/650	485/650	650/900	485/650	485/650	650/900	mm
Throat depth	TD	500	500	500/600	500	500	500/600	mm
Table width	T	95/130/300	95/130/300	95/130/300	95/130/300	95/130/300	95/130/300	mm
Y-axis accuracy		0,01	0,01	0,01	0,01	0,01	0,01	mm
Y-axis speed, max		120	120	120	120	120	120	mm/s
Y-axis working speed, max		1-10	1-10	1-10	1-10	1-10	1-10	mm/s
Y-axis return speed, max		110	110	100	110	110	100	mm/s
Oil capacity		400	400	400	400	400	400	l
Weight		13	15	23	14	16	28	tn
Main motor power		15	15	30	15	15	30	kW
Side frame underfloor		0	0	0	0	0	0	mm
Lower beam underfloor		0	0	0	0	0	0	mm

Back gauge	2-axis	4-axis	5-axis	6-axis	9-axis	
X-axis travel	1000	1000	800	1000	1000	mm
X1-axis travel	0	0	+/- 200	1000	1000	mm
X-axis positioning, max	1100	1100	850	1500	1500	mm
X-axis speed, max	750	750	750	550	550	mm/s
X-axis accuracy	0,05	0,05	0,05	0,05	0,05	mm
R-axis travel	300	300	300	300	300	mm
R-axis speed, max	200	200	200	200	200	mm/s
R-axis accuracy	0,1	0,1	0,1	0,1	0,1	mm
Z-axis speed, max	0	650	650	650	650	mm/s
Z-axis accuracy	0,5	0,5	0,5	0,2	0,2	mm/s



The right to make changes to construction, equipment and dimensions is reserved.



Bending length	BL	F-Series 3000-4200 mm	Heavy Duty 4200-10 000 mm	Giant 4200-14 000 mm
Pressing force		F-Series 220-500 tn	Heavy Duty 500-750 tn	Giant 1000-4000 tn
Stroke	S	F-Series 250-400 mm	Heavy Duty 300-600 mm	Giant 500-600 mm

All technical specifications of Aliko press brakes can be modified according to customers needs.

HEAVY DUTY

Heavy Duty press brakes – quality solutions for larger volumes. This series has reinforced construction, 4,2–10 meters bending length and 500–750 tons bending force. It is completed with various accessories and optional devices.

Heavy Duty frame is designed to minimize welding structures to achieve the highest possible uniformity in the press brake frame structure. In addition to high quality, we achieve a cost-effective and fast manufacturing process that enables large-scale press brakes to be also delivered quickly and affordably to our customers.



Pressing force

HYDRAULIC SYSTEM

Designed in Finland, assembled from high quality components, hydraulic system is efficient and trouble-free

LIGHTNING

Modern LED lightning system installed on the back and front side of machine

CONTROL SYSTEM

The powerful Cybelec Visitouch 19 control makes operator's work easier

FRAME DEFLECTION COMPENSATION

Real time measuring system between upper and lower beam



ECO MODE

Hydraulic system uses power only when it is needed

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2-,4-,5- or 6-axis high performance back gauge systems are fast and accurate

CNC CROWNING

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

FRONT SUPPORTS

Fast adjustable standard front supports or fully automatic sheet followers

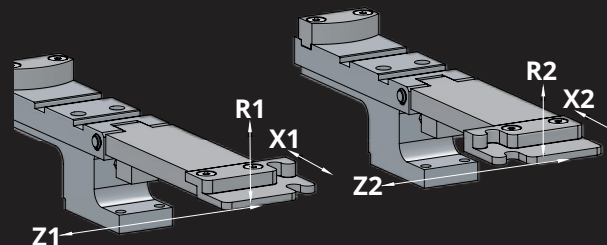


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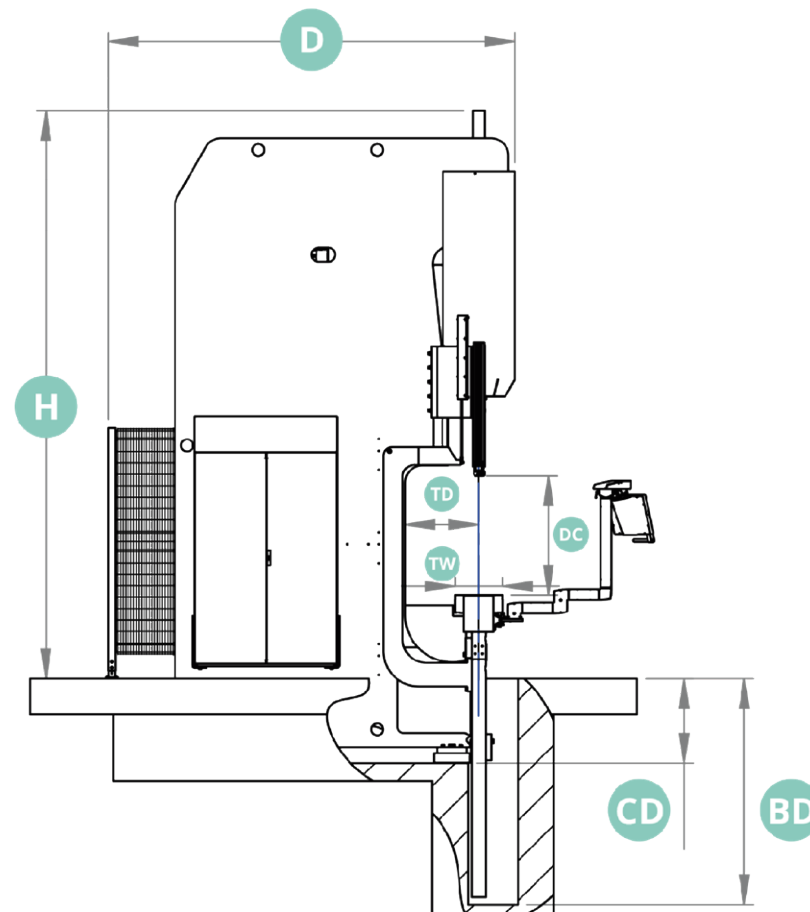
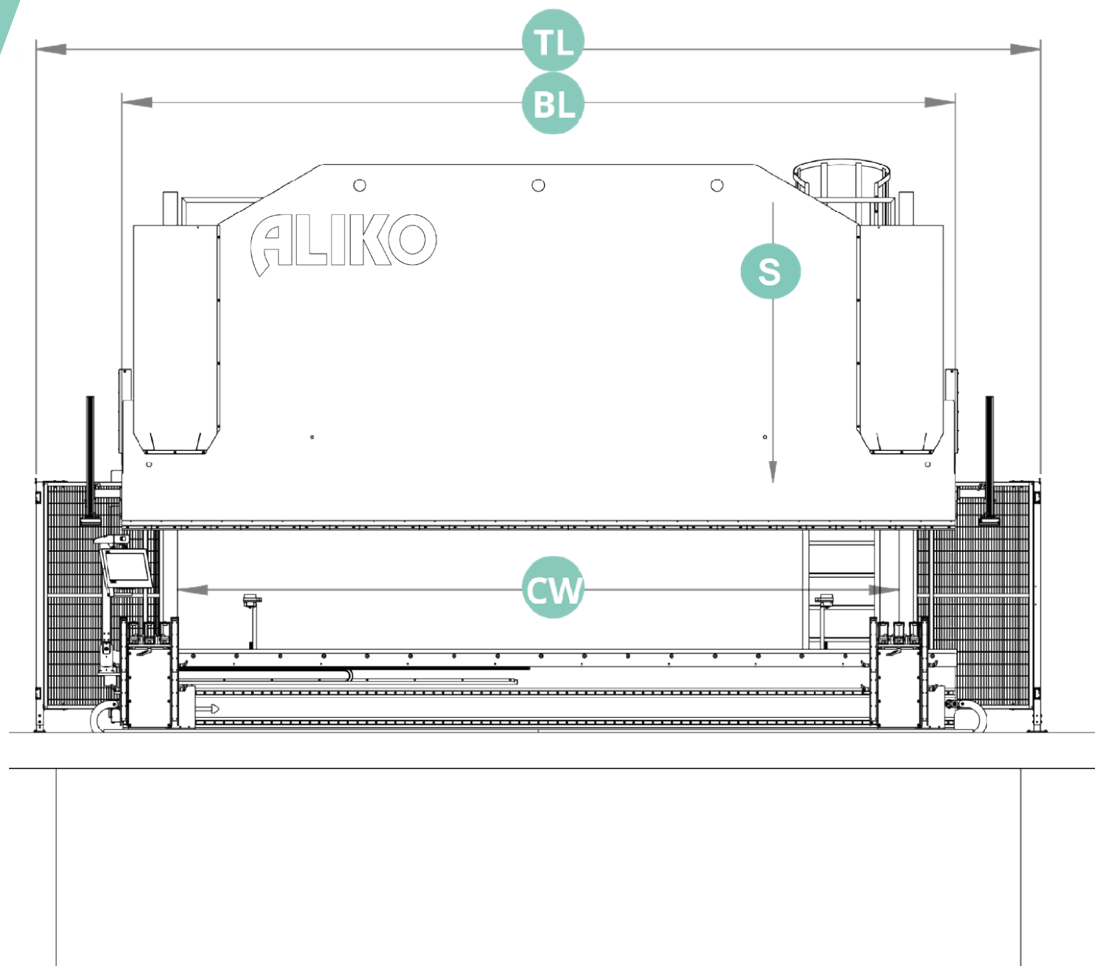
TECHNICAL SPECIFICATION - HEAVY DUTY

		SP6000-500	SP7000-500	SP4200-750	SP6000-750	SP7000-750	SP8000-750	SP10000-750	
Pressing force		5000	5000	7500	7500	7500	7500	7500	kN
Bending length	BL	6000	7000	4200	6000	7000	8000	10 000	mm
Total length	TL	6940	7940	5500	7300	8300	9300	11 300	mm
Width	D	2460	2460	4120	4120	4120	4120	4120	mm
Height	H	4110	4600	4820	4820	4820	4820	5220	mm
Distance between side frames	CW	5320	6320	3260	5060	6060	7060	9060	mm
Stroke	S	300/600	300/600	400/600	400/600	400/600	400/600	400/600	mm
Daylight clearance	DC	600/900	600/900	800	800	800	800	800	mm
Throat depth	TD	500	500	620	620	620	620	620	mm
Table width	T	100/300	100/300	100-400	100-400	100-400	100-400	100-400	mm
Y-axis accuracy		0,01	0,01	0,01	0,01	0,01	0,01	0,01	mm
Y-axis speed, max		100	100	100	100	100	100	100	mm/s
Y-axis working speed, max		1-10	1-10	1-10	1-10	1-10	1-10	1-10	mm/s
Y-axis return speed, max		100	100	100	100	100	100	100	mm/s
Oil capacity		400	400	600	800	800	800	800	l
Weight		38	45	40	55	65	75	90	tn
Main motor power		30	30	75	75	75	75	75	kW
Side frame underfloor	CD	0	0	710	710	710	710	710	mm
Lower beam underfloor	BD	1200	1200	1200	1600	1900	2100	2500	mm

Back gauge	2-axis	4-axis	5-axis	6-axis	9-axis	
X-axis travel	1000	1000	800	1000	1000	mm
X1-axis travel	0	0	+/- 200	1000	1000	mm
X-axis positioning, max	1100	1100	850	1500	1500	mm
X-axis speed, max	750	750	750	550	550	mm/s
X-axis accuracy	0,05	0,05	0,05	0,05	0,05	mm
R-axis travel	300	300	300	300	300	mm
R-axis speed, max	200	200	200	200	200	mm/s
R-axis accuracy	0,1	0,1	0,1	0,1	0,1	mm
Z-axis speed, max	0	650	650	650	650	mm/s
Z-axis accuracy	0,5	0,5	0,5	0,2	0,2	mm/s



The right to make changes to construction, equipment and dimensions is reserved.



Bending length **BL** F-Series 3000-4200 mm Heavy Duty 4200-10 000 mm Giant 4200-14 000 mm

Pressing force F-Series 220-500 tn Heavy Duty 500-750 tn Giant 1000-4000 tn

Stroke **S** F-Series 250-400 mm Heavy Duty 300-600 mm Giant 500-600 mm

All technical specifications of Aliko press brakes can be modified according to customers needs.

GIANT

New generation of ALIKO Giant press brakes provides you the best result for any challenge. The sky is the limit with the ALIKO Giant: 4-14 meter bending length and 1000-4000 tons bending force.

The new design pays special attention to upper and lower beam crowning and a new type of frame structure to gain a good bended end product. It is also possible to produce all Aliko press brakes in tandem version.

HYDRAULIC SYSTEM

Designed in Finland high quality components assembled hydraulic system is efficient and trouble-free

LIGHTNING SYSTEM

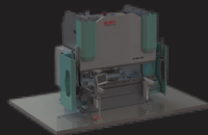
Modern LED lightning system installed on the back and front side of machine

CONTROL SYSTEM

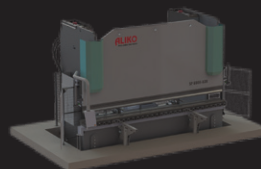
The powerful Cybelec Visitouch 19 control makes operator's work easier

FRAME DEFLECTION COMPENSATION

Real time measuring system between upper and lower beam



F-sarja 220-500 tn



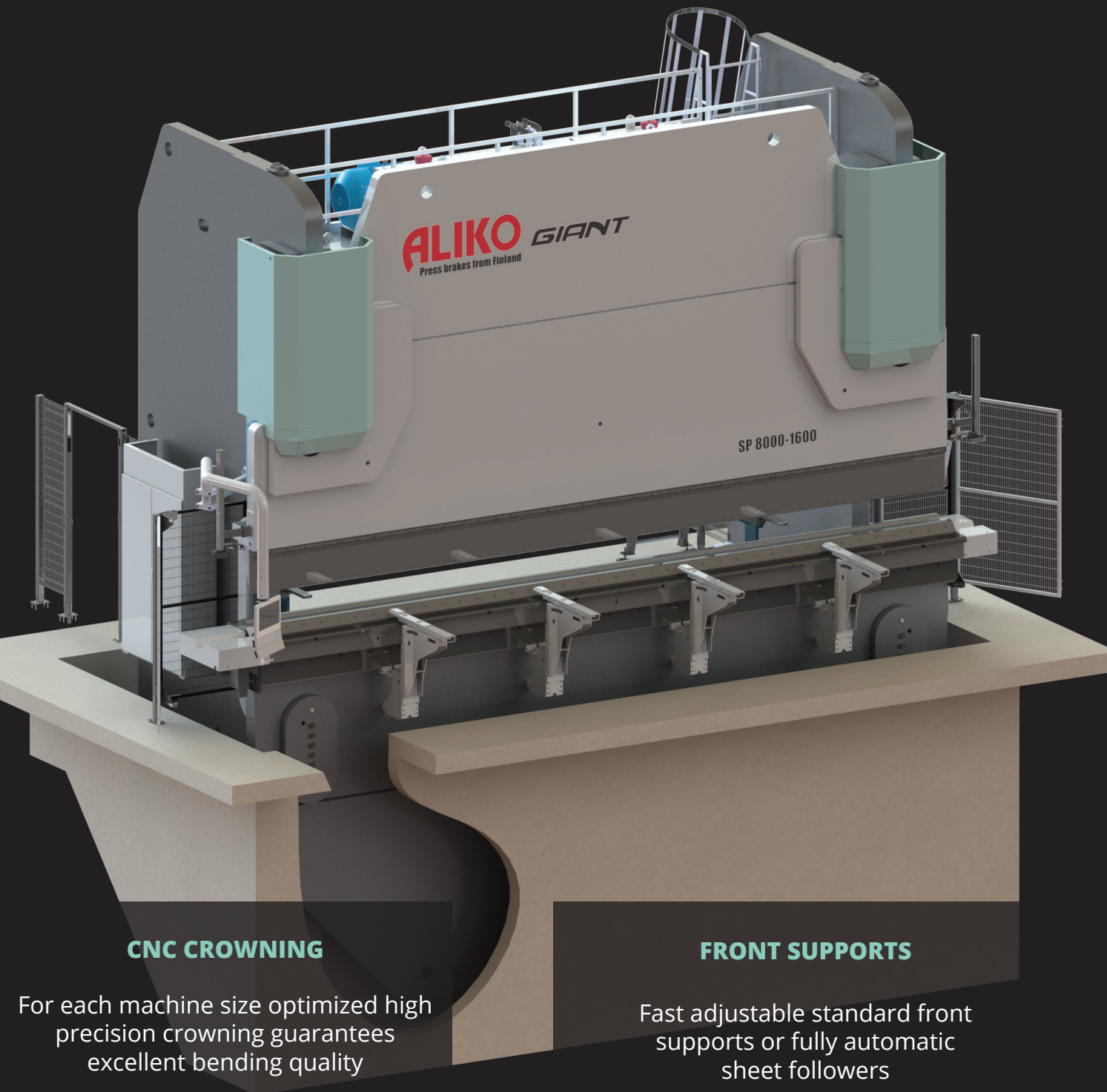
Heavy Duty 500-750 tn



Giant 1000-4000 tn

Pressing force





ECO MODE

Hydraulic system uses power only when it is needed

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Lazer Safe safety system increases machine productivity and safety

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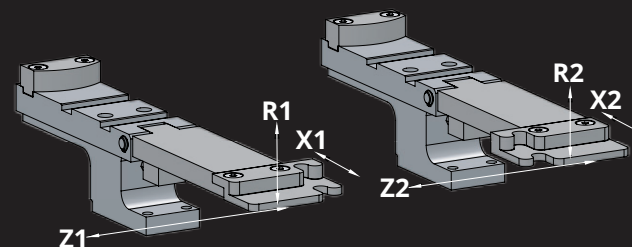


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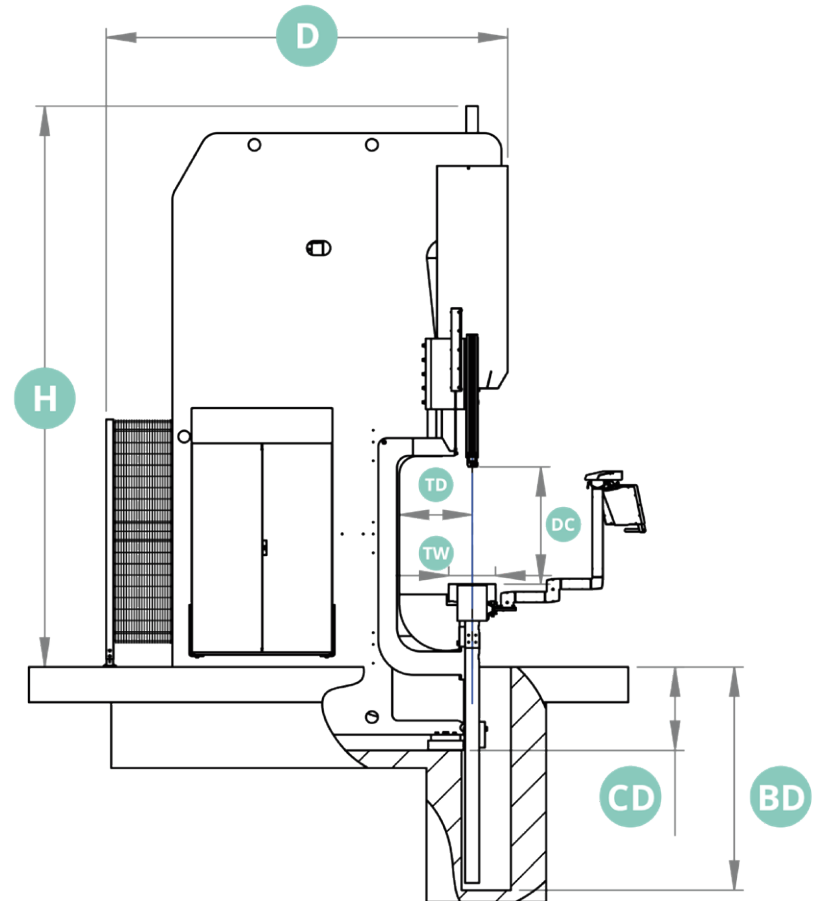
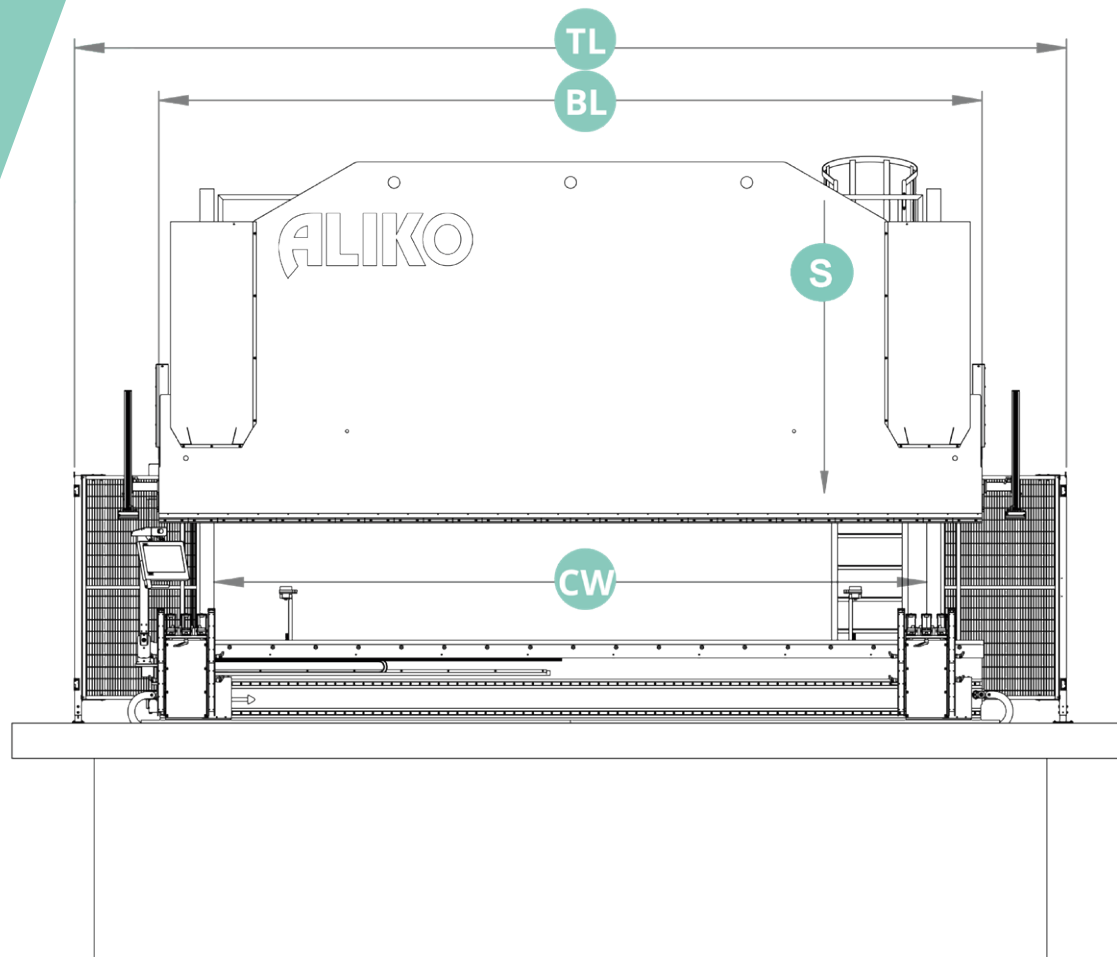
TECHNICAL SPECIFICATION - GIANT

		SP4200-1000	SP7000-1000	SP6000-1400	SP8000-1600	SP10000-2000	SP12000-2000	SP14000-2500	
Pressing force		10000	10000	14000	16000	20000	20000	25000	kN
Bending length	BL	4200	7000	6000	8000	10000	12000	14000	mm
Total length	TL	5700	8500	7940	9500	11500	13500	15500	mm
Width	D	4200	4200	4400	4400	4600	4600	4600	mm
Height	H	5200	5200	4600	4820	4820	7640	7640	mm
Distance between side frames	CW	3270	6070	6320	6665	8500	10500	12500	mm
Stroke	S	500	500	500	500	600	600	600	mm
Daylight clearance	DC	1000	1000	1000	1000	1100	1100	1100	mm
Throat depth	TD	620	620	500	620	620	620	620	mm
Table width	T	400	400	500	500	500	500	500	mm
Y-axis accuracy		0,01	0,01	0,01	0,01	0,01	0,01	0,01	mm
Y-axis speed, max		90	90	80	80	70	70	70	mm/s
Y-axis working speed, max		1-10	1-10	1-10	1-10	1-10	1-10	1-10	mm/s
Y-axis return speed, max		80	80	80	80	70	70	70	mm/s
Oil capacity		600	800	800	1000	1200	1600	2000	l
Weight		65	95	135	155	235	285	320	tn
Main motor power		75	75	90	90	150	150	150	kW
Side frame underfloor	CD	730	730	795	795	1050	1050	1050	mm
Lower beam underfloor	BD	1200	2500	2500	3200	3500	4000	4690	mm

Back gauge	2-axis	4-axis	5-axis	6-axis	9-axis	
X-axis travel	1000	1000	800	1000	1000	mm
X1-axis travel	0	0	+/- 200	1000	1000	mm
X-axis positioning, max	1100	1100	850	1500	1500	mm
X-axis speed, max	750	750	750	550	550	mm/s
X-axis accuracy	0,05	0,05	0,05	0,05	0,05	mm
R-axis travel	300	300	300	300	300	mm
R-axis speed, max	200	200	200	200	200	mm/s
R-axis accuracy	0,1	0,1	0,1	0,1	0,1	mm
Z-axis speed, max	0	650	650	650	650	mm/s
Z-axis accuracy	0,5	0,5	0,5	0,2	0,2	mm/s



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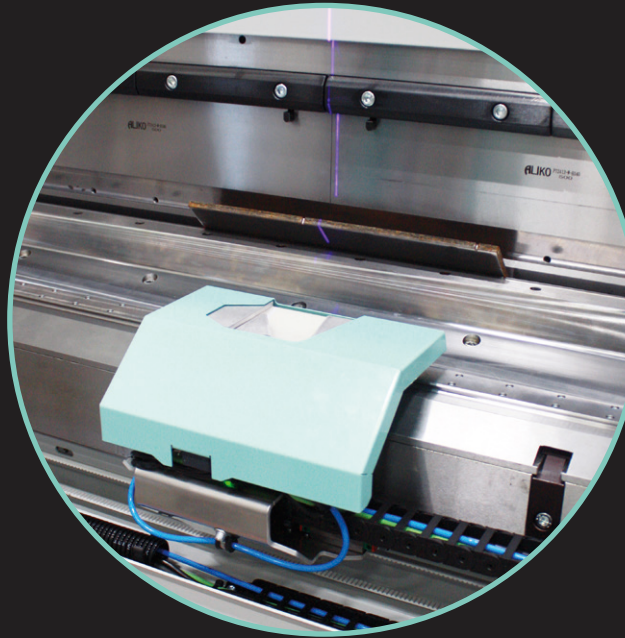
Bending length	BL	F-Series 3000-4200 mm	Heavy Duty 4200-10 000 mm	Giant 4200-14 000 mm
Pressing force		F-Series 220-500 tn	Heavy Duty 500-750 tn	Giant 1000-4000 tn
Stroke	S	F-Series 250-400 mm	Heavy Duty 300-600 mm	Giant 500-600 mm

All technical specifications of Aliko press brakes can be modified according to customers needs.

ALIKO AUXILIARY EQUIPMENT

ALIKO TOOL STATION is intended to be installed next to the press brake. Tool station is excellent for storage of press brakes 1V-lower tools and upper tools. The tools slide onto the bending table along the transfer bridge. The tools move in the slot of the bridge, where pneumatically moving rollers help the movement. The locking of the tools is implemented with a pneumatic quick locking.

- For easy storage and change of tools
- Easy to use Aliko touch screen control
- Very large capacity of the tools, max 3000 kg
- Tool placement on a customer-specific basis
- Transfer bridge and light tool positioning in the press brake
- Adding new tools directly from control panel
- Suitable for almost all press brakes



ALIKO TOOL CARRIAGE is designed to ease heavy upper tool handling. It has a robust but light weight construction and can be lifted by hand to a press brake. Next to the bending table is an added space, that makes lifting upper tools by crane possible. Tool carriage can be moved from this added space straight to the bending table.

- Ergonomic option for changing heavy upper tools
- Rides on top of lower tool clamping or CNC vario die
- Fits straight and goose neck upper tools
- Tool carriage can be lifted off the press brake when not needed
- Lifting device can be added for easy handling

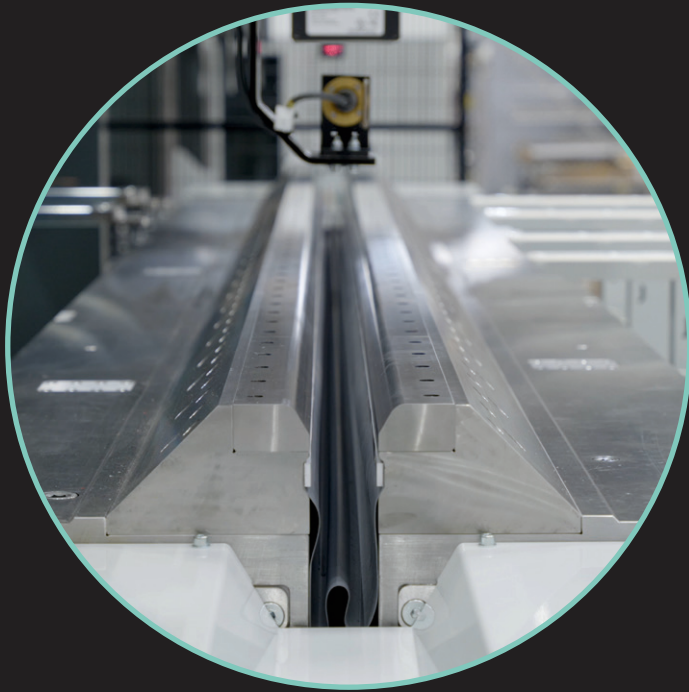


ALIKO KMJ ANGLE MEASURING DEVICE

makes achieving accurate bends easy. The device is servo driven, CNC controlled and easily adjusted.

- Typical measurement accuracy $\pm 0.1^\circ$
- Has a blue beam which is well-known to be the best color to be used in measuring devices
- Can be used with 1V lower tools or CNC vario dies
- Can be cleaned pneumatically
- Change of lower tool won't affect the measuring nor does it make moving the measuring necessary
- A covered parking space at the bending table





ALIKO CNC-VARIO DIES design 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
- Excellent load resistance
- V-opening corner rolls to reduce the power needed in bending and improve tools duration
- Suitable for almost all press brakes
- Basically maintenance free

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

ALIKO CNC VARIO CROWNING 400 makes adjusting crowning easy. It is construction of servo driven self-locking wedges. These wedges are adjusted by servomotors from the control panel. CNC control calculates needed compensation automatically after which operator can make adjustments based on the bending result.

- Maximum load 600 tn/m
- Adjustment accuracy 0,01 mm
- Axes every 500 mm, max 20 in total
- Precise and durable
- Can be serviced without removing lower tool



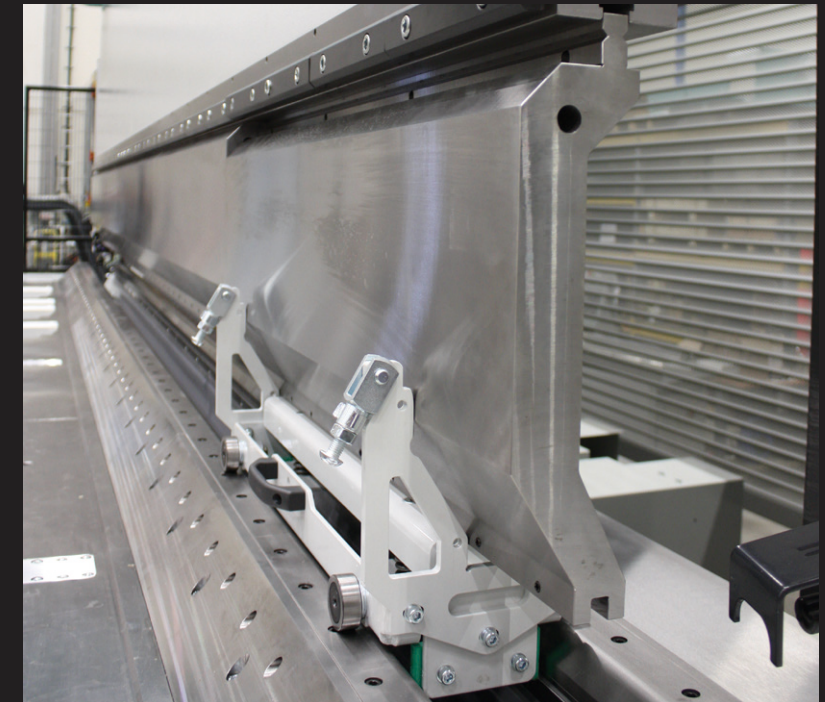
ALIKO APPLICATIONS



ALIKO SP3000-500F WITH ALIKO KMJ ANGLE MEASUREMENT DEVICE

PRESS BRAKE FEATURES

Bending length 3000 mm	Aliko CNC crowning
Bending force 500 tons	4 axis back gauge
Cybelec Visitouch	Aliko KMJ angle measurement device
Lazer Safe safety system	Upper tool – punch frame with punch tips
Bending line laser	Lower tool – ALIKO CNC Vario die 120



ALIKO SP5000-630 HD WITH TOOL CARRIAGE

PRESS BRAKE FEATURES

Bending length 5000 mm	Aliko Vario crowning 400
Bending force 630 tons	6 axis back gauge
Cybelelec Visitouch	Heavy Duty CNC front supports
Lazer Safe safety system	Upper tool – punch frame with tips
Bending line laser	Lower tool – ALIKO CNC-VARIO DIE 300

ALIKO APPLICATIONS



ALIKO SP8000-1000 GIANT

PRESS BRAKE FEATURES

Bending length 8000 mm	Modified upper and lower beam
Bending force 1000 tons	Aliko CNC crowning
Cybelec Visitouch	9 axis back gauge
Lazer Safe safety system	Upper tool – punch frame with punch tips
Bending line laser	Lower tools – Aliko CNC Vario die 200

DETAILS OF THE BEND

Material S355 mc
Layout 6300*1942 mm
Thickness 20 mm
Weight 1787 kg

ALIKO PRESS BRAKE TOOLING SOLUTIONS

UPPER TOOLS

- Straight punches
- Goose neck punches
- Punch frames
- Punch tips and r-tools
- Special tools
- Tool adapters and extenders

UPPER TOOL FASTENING SYSTEMS

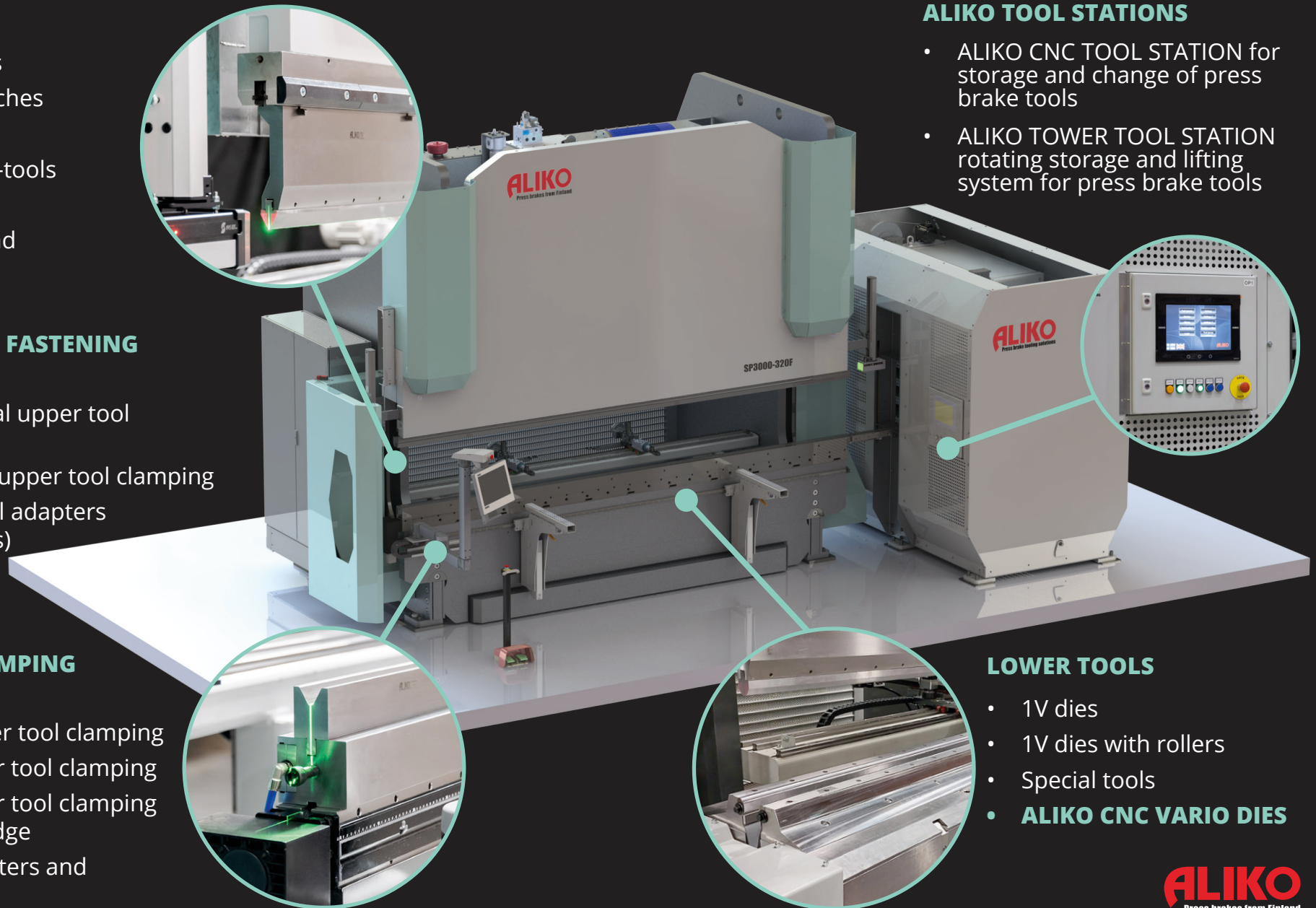
- Mechanical upper tool clamping
- Hydraulic upper tool clamping
- Upper tool adapters (extenders)

LOWER TOOL CLAMPING SOLUTIONS

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

ALIKO TOOL STATIONS

- ALIKO CNC TOOL STATION for storage and change of press brake tools
- ALIKO TOWER TOOL STATION rotating storage and lifting system for press brake tools



LOWER TOOLS

- 1V dies
- 1V dies with rollers
- Special tools
- **ALIKO CNC VARIO DIES**



ALIKO

Press brakes from Finland

CONTACTS

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High quality Finnish press brakes for more demanding taste since 1978

www.aliko.fi