

[www.aliko.fi](http://www.aliko.fi)

**ALIKO**  
Press brakes from Finland

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SP 6000-500  
Heavy Duty

High quality Finnish press brakes for more demanding taste since 1978

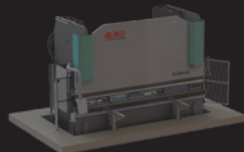
# F-SERIES

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.

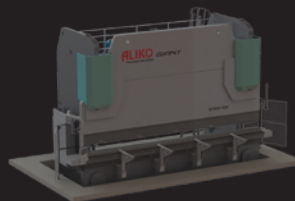
A wide range of press brake accessories is available enabling Aliko to design a machine solution to meet the customer's needs exactly. It is also possible to produce all Aliko press brakes in tandem version.



F-series 220-500 tn



Heavy Duty 500-750 tn



Giant 1000-4000 tn

Pressing force

## HYDRAULIC SYSTEM

In Finland designed and high quality components assembled hydraulic system is efficient and trouble-free

## LIGHTNING SYSTEM

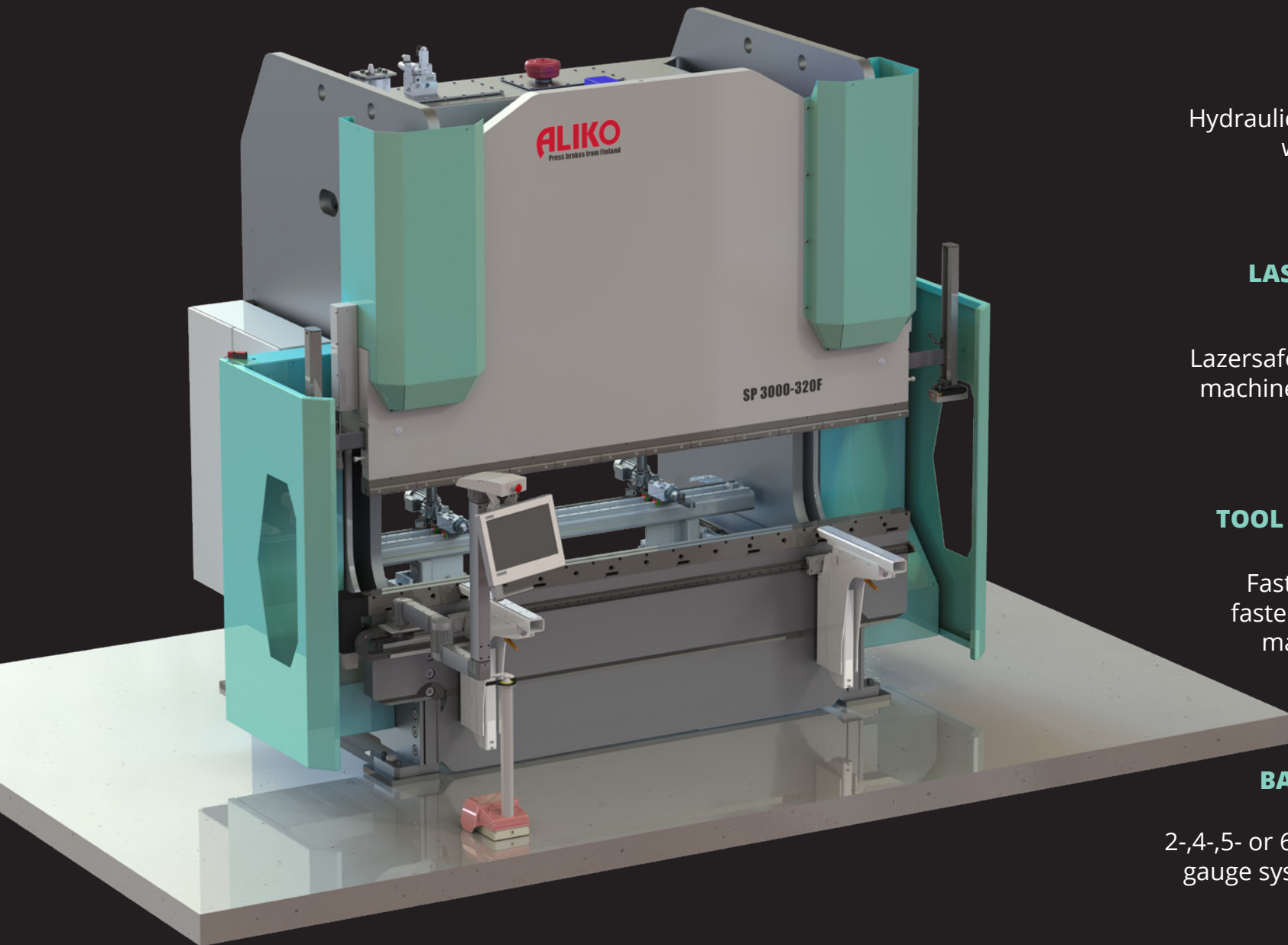
Modern LED lightning system installed on the back and front side of machine

## 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 SAFETYSYSTEM**

Lazersafe 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

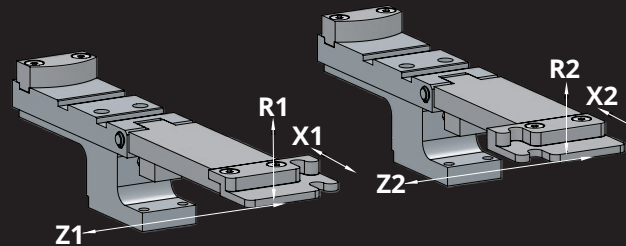
### **FRONT SUPPORTS**

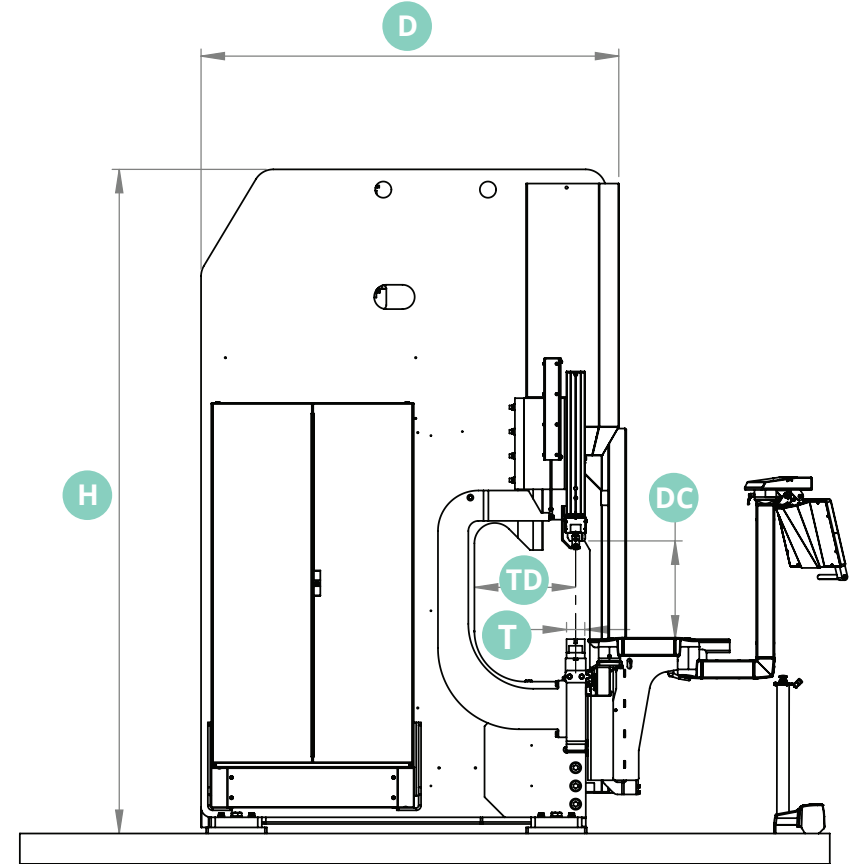
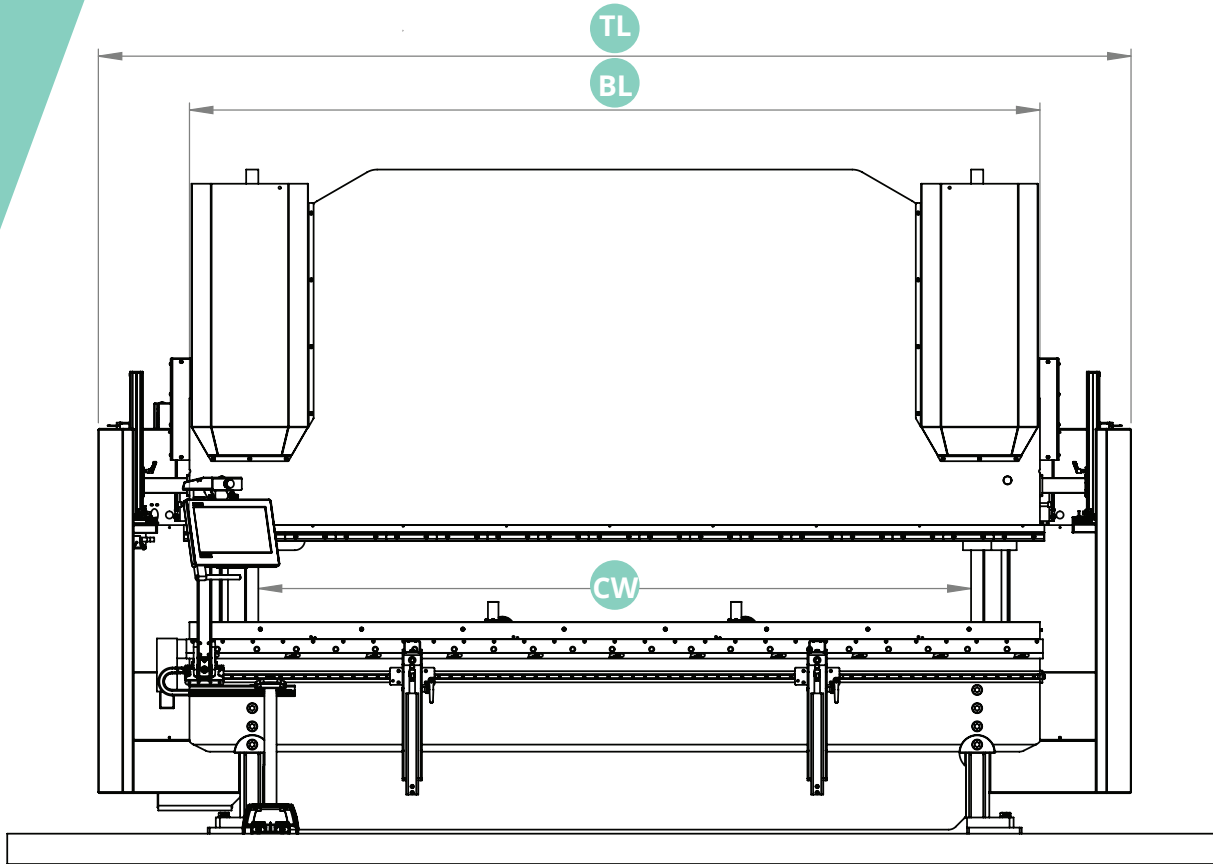
Fast adjustable standard front supports or fully automatic sheet followers

# TECHNICAL SPECIFICATION - F-SERIES

	SP3000-220F	SP3000-320F	SP3000-400F	SP3000-500F	SP4200-220F	SP4200-320F	SP4200-400F	
Pressing force	2200	3200	4000	5000	2200	3200	4000	kN
Bending length	<b>BL</b> 3000	3000	3000	3000	4200	4200	4200	mm
Total length	<b>TL</b> 3900	3900	3940	3940	5100	5100	5140	mm
Width	<b>D</b> 2100	2100	2500	2500	2100	2100	2500	mm
Height	<b>H</b> 3300	3300	3900	3900	3300	3300	3900	mm
Distance between side frames	<b>CW</b> 2320	2320	2320	2320	3520	3520	3520	mm
Stroke	250/400	250/400	300/400	300/400	250/400	250/400	300/400	mm
Open height	<b>DC</b> 485/600	485/600	600/700	600/700	485/600	485/600	600/700	mm
Throat depth	<b>TD</b> 500	500	500	500	500	500	500	mm
Table width	<b>T</b> 95/300	95/300	95/300	95/300	95/300	95/300	95/300	mm
Y-axis accuracy	0,01	0,01	0,01	0,01	0,01	0,01	0,01	mm
Y-axis speed, max	120	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	1-10	mm/s
Y-axis return speed, max	110	110	100	100	110	110	100	mm/s
Oil capacity	400	400	400	400	400	400	400	l
Weight	13	15	22	23	14	16	25	tn
Main motor power	15	15	30	30	15	15	30	kW
Side frame underfloor	0	0	0	0	0	0	0	mm
Lower beam underfloor	0	0	0	0	0	0	0	mm

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





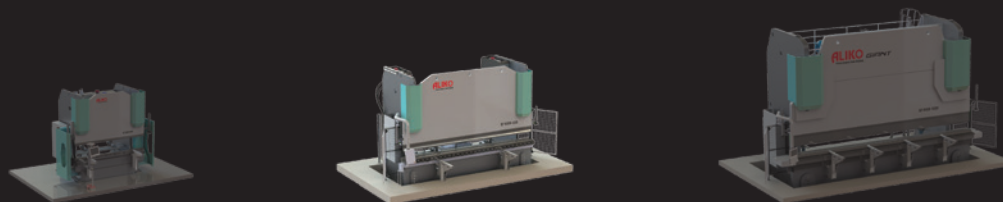
Bending length	<b>BL</b>	F-Series 3000-4200 mm	Heavy Duty 4200-10 000 mm	Giant 4200-14 000 mm
Pressing force		F-Series 220-500 tn	Heavy Duty 500-750 tn	Giant 1000-4000 tn
Stroke		F-Series 250-400 mm	Heavy Duty 300-600 mm	Giant 500-600 mm

**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.



F-sarja 220-500 tn

Heavy Duty 500-750 tn

Giant 1000-4000 tn

Pressing force

## HYDRAULIC SYSTEM

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## 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



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### ECO MODE

Hydraulic system uses power only when it is needed

### LASER SAFETYSYSTEM

Lazersafe 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

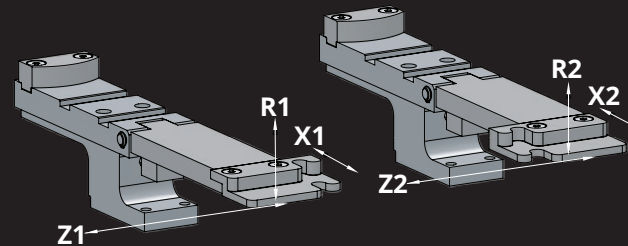
### FRONT SUPPORTS

Fast adjustable standard front supports or fully automatic sheet followers

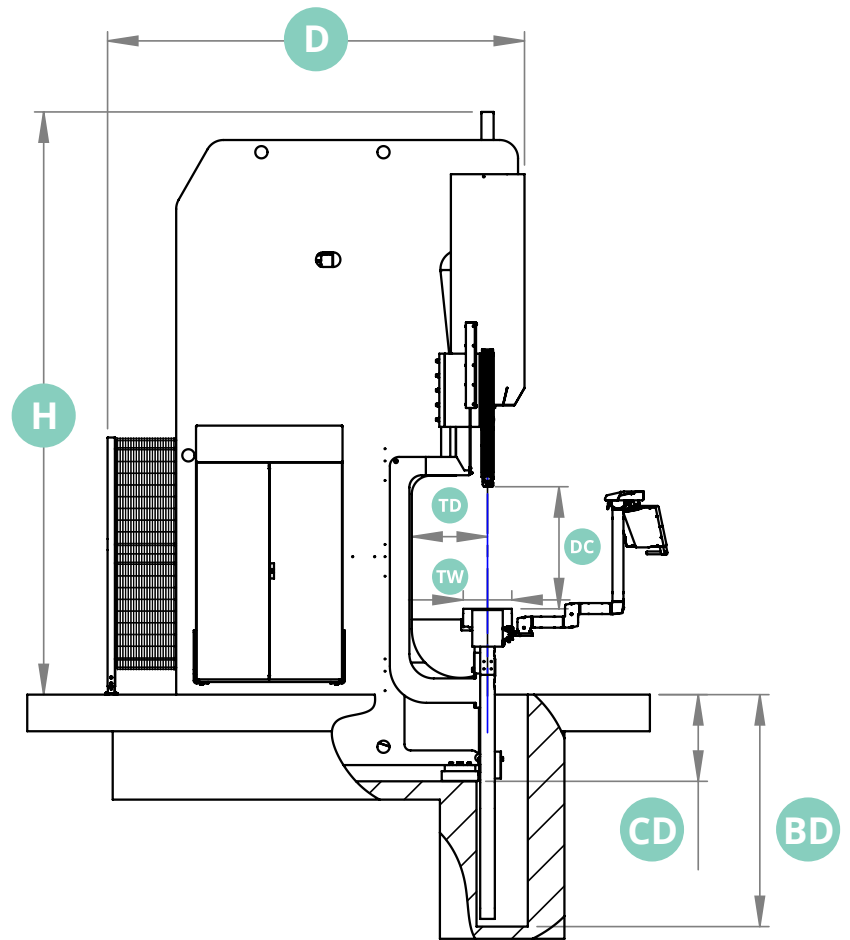
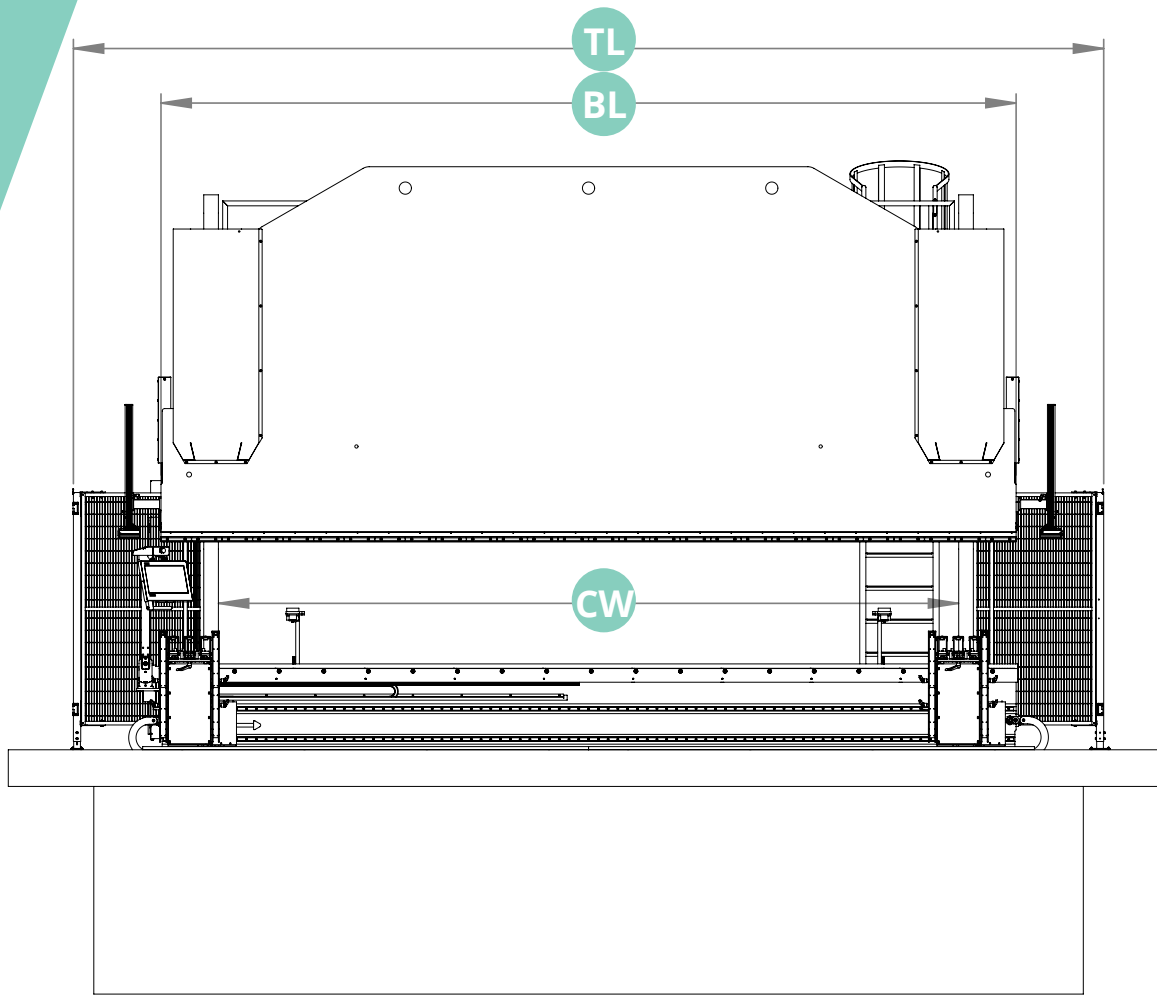
# TECHNICAL SPECIFICATION - HEAVY DUTY

	SP4200-500	SP6000-500	SP7000-500	SP4200-750	SP6000-750	SP7000-750	SP8000-750	SP10000-750	
Pressing force	5000	5000	5000	7500	7500	7500	7500	7500	kN
Bending length	<b>BL</b> 4200	6000	7000	4200	6000	7000	8000	10 000	mm
Total length	<b>TL</b> 5140	6940	7940	5500	7300	8300	9300	11 300	mm
Width	<b>D</b> 2460	2460	2460	4120	4120	4120	4120	4120	mm
Height	<b>H</b> 3860	4110	4600	4820	4820	4820	4820	5220	mm
Distance between side frames	<b>CW</b> 3520	5320	6320	3260	5060	6060	7060	9060	mm
Stroke	300/400	300/400	300/400	400/600	400/600	400/600	400/600	400/600	mm
Open height	<b>DC</b> 610	610	610	800	800	800	800	800	mm
Throat depth	<b>TD</b> 500	500	500	620	620	620	620	620	mm
Table width	<b>T</b> 100/300	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	0,01	mm
Y-axis speed, max	100	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	1-10	mm/s
Y-axis return speed, max	100	100	100	100	100	100	100	100	mm/s
Oil capacity	400	400	400	600	800	800	800	800	l
Weight	28	38	45	40	55	65	75	90	tn
Main motor power	30	30	30	75	75	75	75	75	kW
Side frame underfloor	<b>CD</b> 0	0	0	710	710	710	710	710	mm
Lower beam underfloor	<b>BD</b> 600	1200	1200	1200	1600	1900	2100	2500	mm

Back gauge	2-axis	4-axis	6-axis	
X-axis travel	1000	1000	1000	mm
X-axis positioning, max	1100	1100	1500	mm
X-axis speed, max	750	750	550	mm/s
X-axis accuracy	0,05	0,05	0,05	mm
R-axis travel	300	300	300	mm
R-axis speed, max	200	200	200	mm/s
R-axis accuracy	01	0,1	0,1	mm
Z-axis speed, max	0	650	650	mm/s
Z-axis accuracy	0,5	0,5	0,2	mm/s







**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

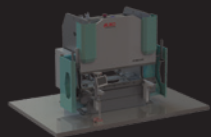
**Stroke** F-Series 250-400 mm Heavy Duty 300-600 mm Giant 500-600 mm

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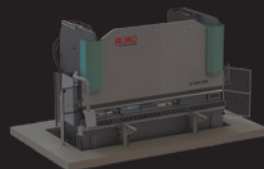
# GIANT

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.



F-sarja 220-500 tn



Heavy Duty 500-750 tn



GIANT 1000-4000 tn

Pressing force



## HYDRAULIC SYSTEM

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## LIGHTNING SYSTEM

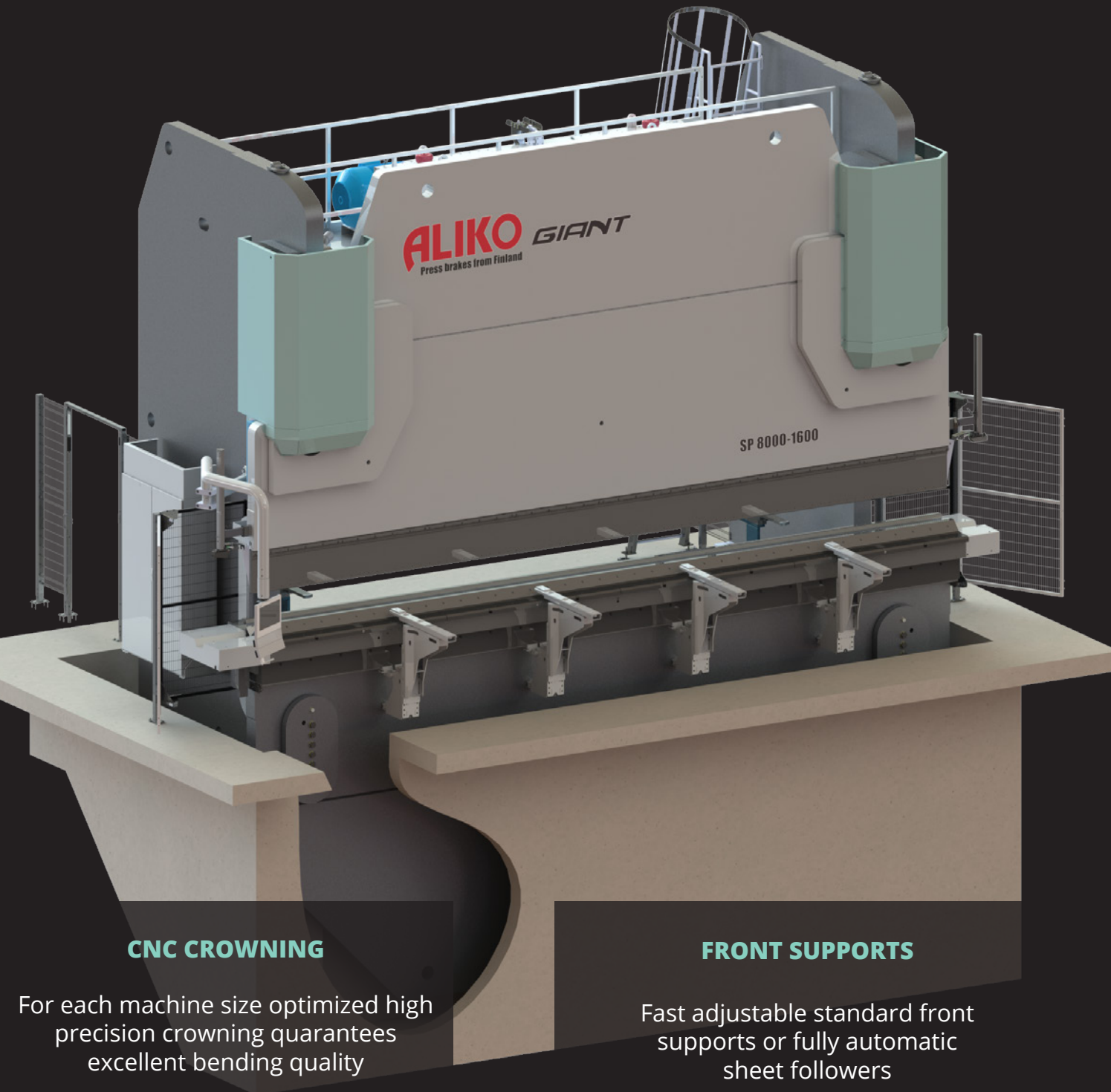
Modern LED lightning system installed on the back and front side of machine

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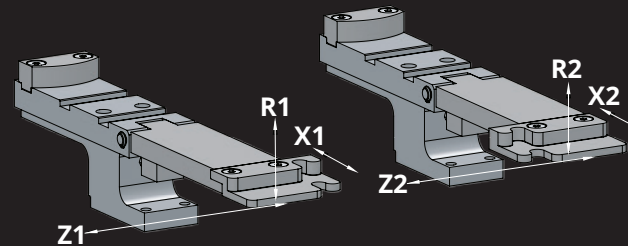
### FRONT SUPPORTS

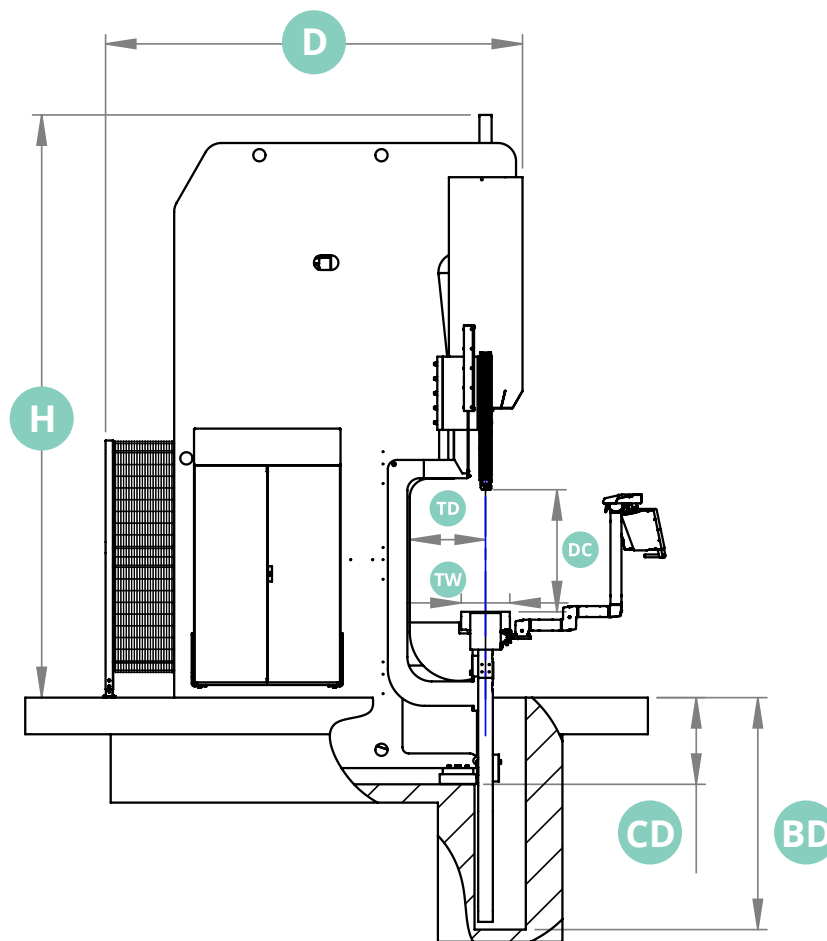
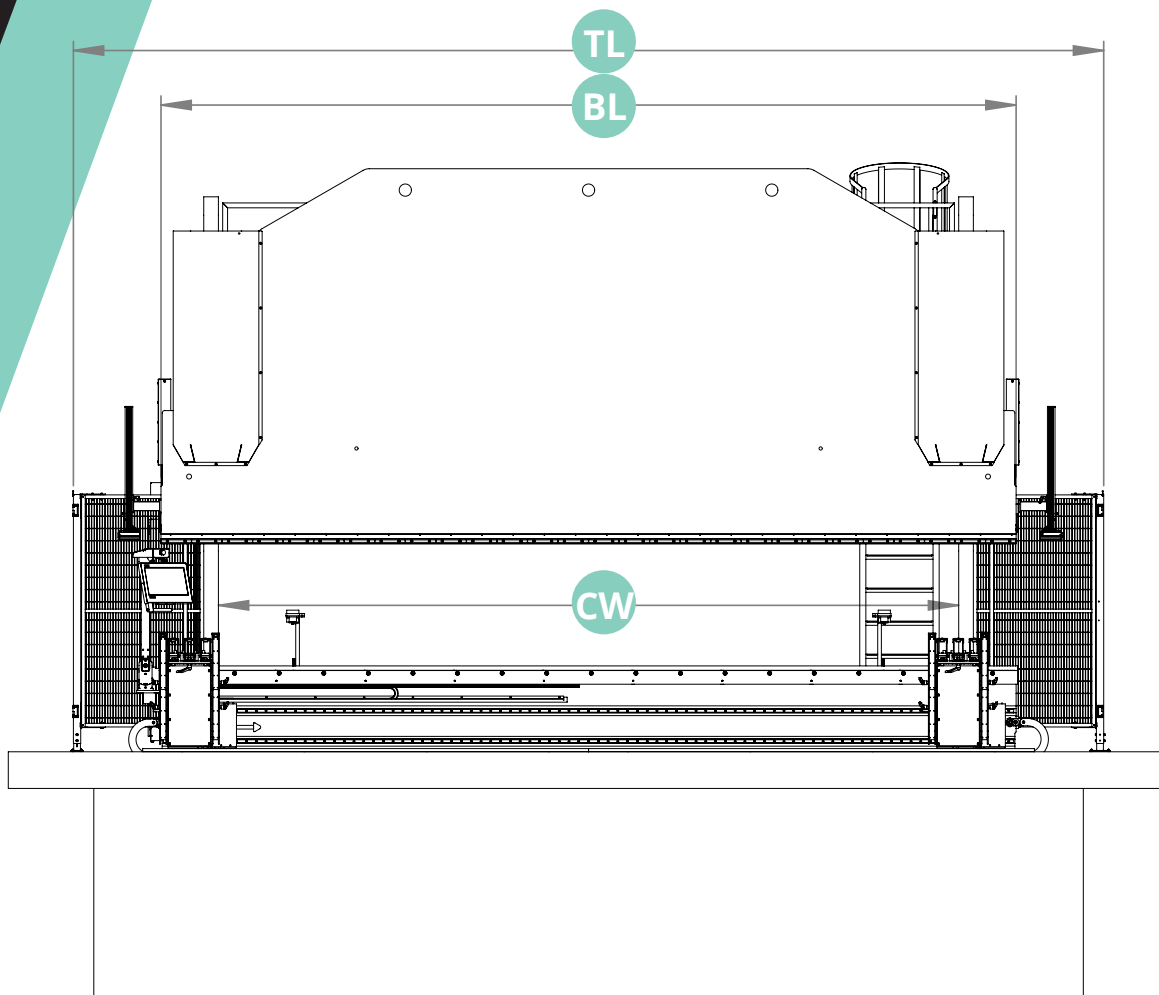
Fast adjustable standard front supports or fully automatic sheet followers

# 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		500	500	500	500	600	600	600	mm
Open height	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	6-axis	
X-axis travel	1000	1000	1000	mm
X-axis positioning, max	1100	1100	1500	mm
X-axis speed, max	750	750	550	mm/s
X-axis accuracy	0,05	0,05	0,05	mm
R-axis travel	300	300	300	mm
R-axis speed, max	200	200	200	mm/s
R-axis accuracy	01	0,1	0,1	mm
Z-axis speed, max	0	650	650	mm/s
Z-axis accuracy	0,5	0,5	0,2	mm/s





**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** 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 PRESS BRAKE

## UPPER TOOL FASTENING SYSTEMS

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

## UPPER TOOLS

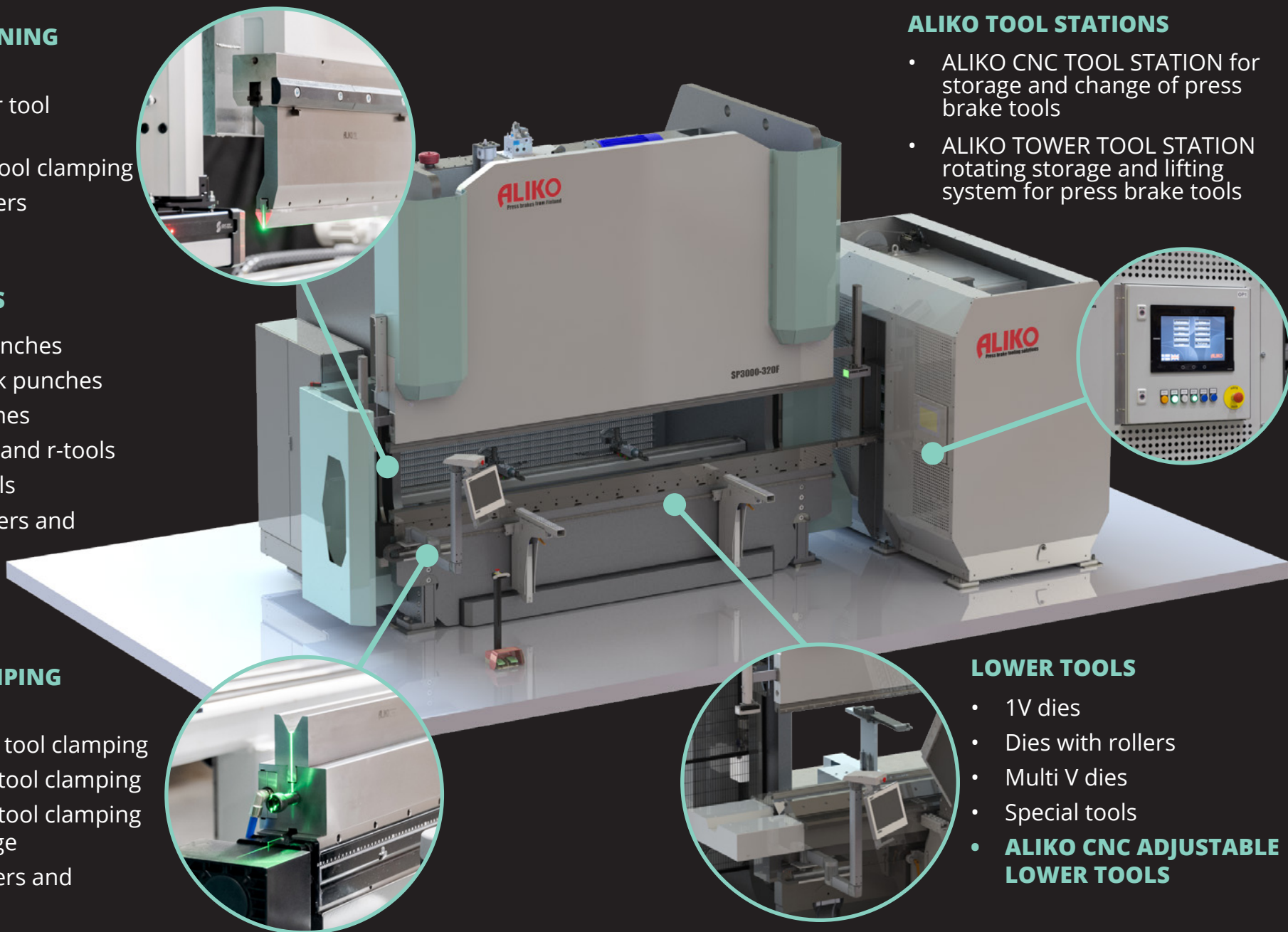
- Straight punches
- Goose neck punches
- Punch frames
- Punch tips and r-tools
- Special tools
- Tool adapters and extenders

## 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

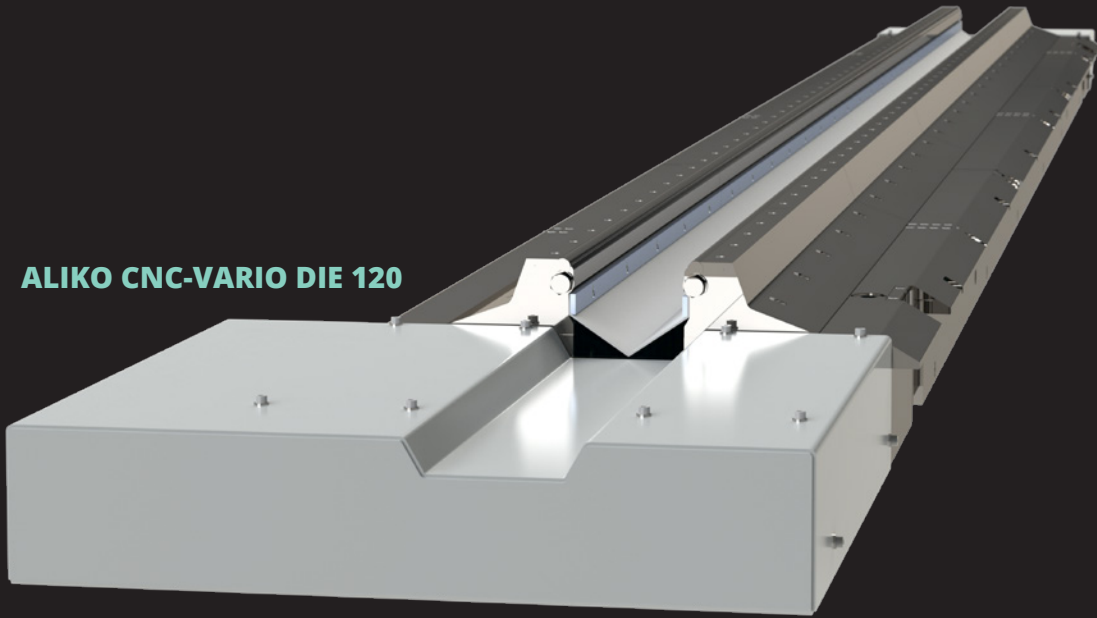


## LOWER TOOLS

- 1V dies
- Dies with rollers
- Multi V dies
- Special tools
- **ALIKO CNC ADJUSTABLE LOWER TOOLS**

# TOOLING SOLUTIONS

## ALIKO CNC-VARIO DIE 120



## ALIKO CNC-VARIO DIES

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.

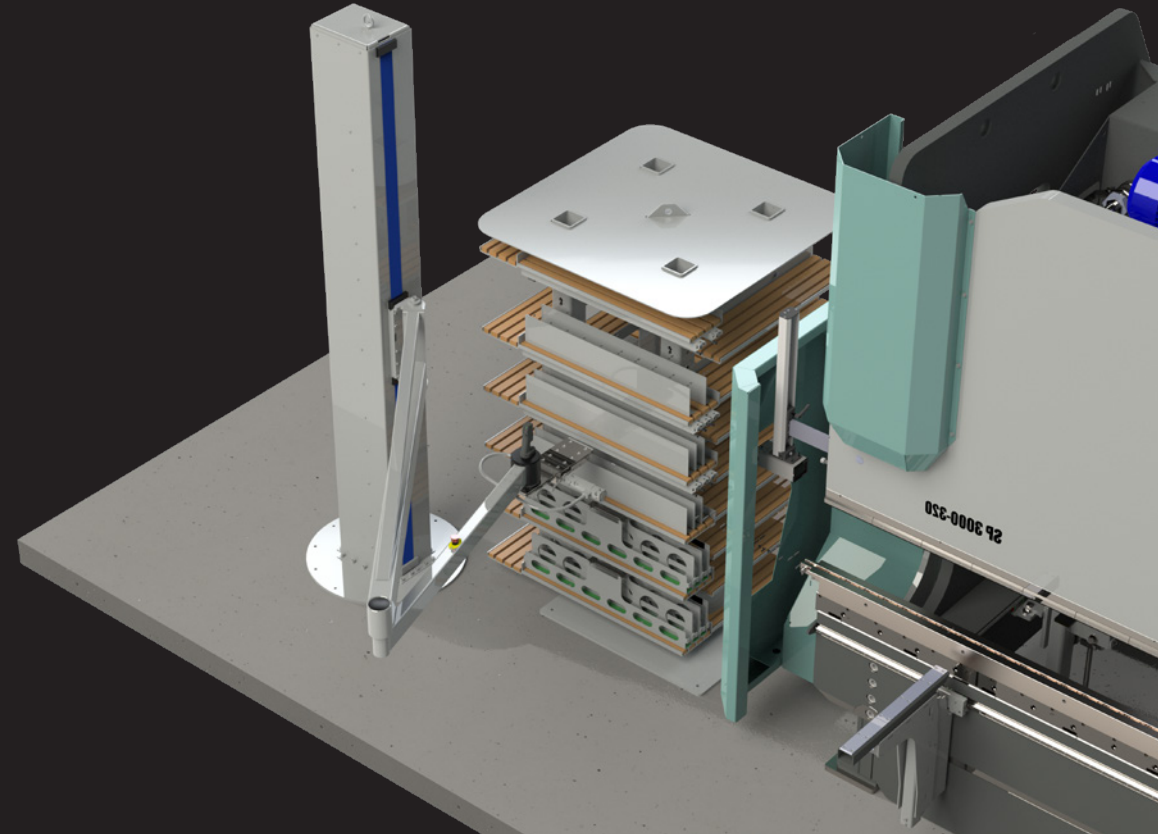
- Motorized V-opening adjustment, precise positioning every 10 mm
- Fast V-opening adjustment straight from CNC-control
- Strong and durable construction
- Excellent load resistance
- V-opening conner rolls to reduce the power needed in bending and improve tools duration
- Suitable for almost all press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

## ALIKO TOWER TOOL STATION FOR EASY STORAGE AND CHANGE OF PRESS BRAKE TOOLS.

### IT IS CONVENIENT, SAFE AND SAVES STORAGE SPACE

- Easy to use with mechanical lifting hand
- Large capacity of tools, up to 2000 kg
- Compact and convenient storage space for tools
- Easy rotation for tool selection at the station
- Placement in station on a customer-specific basis
- Light tool positioning on the press brake
- Suitable with all press brake models
- Suitable for 1V dies and upper tools

**ALIKO TOWER TOOL STATION** installed next to the press brake. Tools can be loaded and unloaded by an integrated mechanical lifting hand. Tool positioning and locking by pneumatic or mechanic clamping system. One tool section weight is up to 60 kg.





# ALIKO

Press brakes from Finland

## CONTACTS

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High quality Finnish press brakes for more demanding taste since 1978

[www.aliko.fi](http://www.aliko.fi)