

THE COMPLETE
PRODUCT LINE

Baykal

THINK BIG, WE DO.

“
THINK BIG, WE DO.
”

APHS HYBRID

High output with top quality

01

ACCURATE

Because each side of the APHS HYBRID press brake is independently operated by its own hydraulic system, it is an on-demand direct drive system. It is rapid, accurate and repeatable.

02

AFFORDABLE

The hybrid brake technology allows a more efficient hydraulic system design.

03

FLEXIBLE

Large range of lengths and tonnages are available.



04

SUSTAINABILITY

Up to 55% energy saving

05

QUIET

When it's on standby mode (all axis are idle), the hydraulics are not running.

06

SAFE

Hybrid machines incorporate a great deal of safety into their designs including laser guard and other features to improve operator's safety.

		APHS HYBRID								
Types		31120	31160	31200	31240	31300	41160	41200	41240	41300
Bending Length	mm	3100	3100	3100	3100	3100	4100	4100	4100	4100
Bending Force	Tons	120	160	200	240	300	160	200	200	300
Oil Tank Capacity	lt	2x34.5	2x55	2x55	2x55	2x55	2x55	2x55	2x55	2x55
Motor Output	kW	2x6	2x9.2	2x9.2	2x9.2	2x9.2	2x9.2	2x9.2	2x9.2	2x9.2
Daylight Opening	mm	540	540	530	530	660	530	530	530	635
Stroke	mm	260	260	260	260	320	260	260	260	320
Throat Gap	mm	410	410	410	410	500	410	410	410	500
Approach	mm/s	200	200	200	160/200*	140/200*	200	200	160/200*	140/200*
Working	mm/s	10	10	10	8/10*	7/10*	10	10	8/10*	7/10*
Return	mm/s	200	200	200	160/200*	140/200*	200	200	160/200*	140/200*
X Axis Range	mm	750	750	750	750	750	750	750	750	750
X Axis Speed	mm/s	350	350	350	350	350	350	350	350	350
X Axis Precision		0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03	0,03
R Axis Range	mm	160	160	160	160	160	160	160	160	160
R Axis Speed	mm/s	240	240	240	240	240	240	240	240	240
R Axis Precision		0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05	0,05

Design and specifications are subject to change without notice

APHS MILD HYBRID

NEW!

01

ACCURATE

It's rapid, accurate, and repeatable thanks to the design and hydraulic system.

02

EFFICIENCY

The hybrid brake technology allows a more efficient hydraulic system design.

03

FLEXIBLE

Wide range of lengths and tonnages are available.

04

SUSTAINABILITY

Up to 40% energy saving

05

QUIET

When it's on standby mode (all axis are idle), the hydraulics are not running.

06

SAFE

High safety for operators
Suitable for CE Standards



APHS PRO

The robust and reliable solution for high-quality bending results in all sheet thicknesses.

01

ACCURATE

It's rapid, accurate, and repeatable thanks to the design and hydraulic system.

02

AFFORDABLE

APHS PRO series combined with high quality and are well-priced.

03

FLEXIBLE

Wide range of lengths and tonnages are available.

04

EFFICIENT

APHS PRO series hydraulic press brakes have great efficiency and productivity.

05

QUICK INSTALLATION

Fast and easy installation allows time-saving.

06

SAFE

High safety for operators
Suitable for CE Standards



APHS PRO																						
Types			1254x40	2104x60	2606x90	3104x90	3106x120	3108x160	3110x200	3112x240	3116x300	3120x440	4106x160	4108x200	4110x240	4112x300	4116x440	6106x240	6108x300	6110x380	6112x440	6116x600
Capacity		kN	400	600	900	900	1200	1600	2000	2400	3000	4400	1600	2000	2400	3000	4400	2400	3000	3800	4400	6000
Motor Output		kW	4	5,5	7,5	7,5	11	15	19	22	22	30	15	18,5	22	22	30	22	22	30	30	37
Oil Tank Capacity		Lt	80	140	140	140	140	210	210	210	280	450	210	210	210	280	450	300	300	450	450	500
Speeds (mm/s)	Approach		160	150	150	160	160	160	150	130	110	80	170	160	150	120	80	140	120	90	90	80
	Working		10	10	10	10	10	10	10	10	8	8	10	10	10	8	8	10	8	8	8	7
	Return		130	130	130	130	130	130	130	120	100	70	120	110	100	90	70	100	70	70	70	70
Approx. Weight		Ton	3.3	5.4	7.1	7.9	8.4	9.7	10	11	15	22	12	12.5	14	18.5	26	25	30	35	39	55
Bending Length		A mm	1250	2100	2600	3100	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100	4100	6100	6100	6100	6100	6100
Inside Frames		B mm	1070	1600	2050	2550	2550	2550	2550	2550	2550	2550	3550	3550	3550	3550	3550	5100	5100	5100	5100	5100
Side Frame Width		C mm	1470	1580	1580	1590	1590	1600	1600	1610	1815	2060	1600	1600	1610	1820	2235	1960	2060	2210	2250	2400
Bed Height		G mm	800	880	880	880	880	880	880	880	905	1005	880	880	880	980	955	1100	1115	1100	1100	1050
Daylight Opening		K mm	455	475	540	530	540	540	530	530	660	575	530	530	530	635	590	500	560	570	570	620
Stroke		L mm	215	210	260	260	260	260	260	260	320	320	260	260	260	320	320	260	320	320	320	360
Table Width		M mm	60	60	60	60	60	60	90	90	380	450	60	90	90	280	380	90	200	240	280	380
Throat Gap		N mm	410	410	410	410	410	410	410	410	500	500	410	410	410	500	500	500	500	500	500	500

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APHS

Powerful bending technology at an attractive price level.

01

COMPACT

Up to 4100 mm, and 300 tons.

02

FLEXIBLE

Flexible and customizable optional features in order to meet your most demanding in flexibility.

03

EFFICIENT AND ECONOMICAL

Best BAYKAL quality with simple operation and an attractive price-performance ratio.

04

PRODUCTIVITY

Minimizes production cost with high speed, quality and superior bending ability.

05

ROBUST DESIGN

Monoblock welded body structure with static and dynamic rigidity.

06

USER-FRIENDLY AND ERGONOMIC

Operation is easy and intuitive.



			APHS													
TYPES			1254x40	2104x60	2606x90	3104x90	3106x120	3108x160	3110x200	3112x240	3116x300	3120x440	4106x160	4108x200	4110x240	4112x300
Capacity		kN	400	600	900	900	1200	1600	2000	2400	3000	4400	1600	2000	2400	3000
Motor Output		kW	4	5,5	7,5	7,5	11	15	19	22	22	30	15	18,5	22	22
Oil Tank Volume		Li	80	140	140	140	140	210	210	210	280	450	210	210	210	280
Speeds (mm/s)	Approach		160	150	150	160	160	160	150	130	110	80	170	160	150	120
	Working		10	10	10	10	10	10	10	10	8	8	10	10	10	8
	Return		130	130	130	130	130	130	130	120	100	70	120	110	100	90
Approx. Weight		Ton	3.3	5.4	7.1	7.9	8.4	9.7	10	11	15	22	12	12.5	14	18.5
Bending Length	A	mm	1250	2100	2600	3100	3100	3100	3100	3100	3100	3100	4100	4100	4100	4100
Inside Frames	B	mm	1070	1600	2050	2550	2550	2550	2550	2550	2550	2550	3550	3550	3550	3550
Side Frame Width	C	mm	1470	1580	1580	1590	1590	1600	1600	1610	1815	2060	1600	1600	1610	1820
Bed Height	G	mm	800	880	880	880	880	880	880	880	905	1005	880	880	880	980
Daylight Opening	K	mm	455	475	540	530	540	540	530	530	660	575	530	530	530	635
Stroke	L	mm	215	210	260	260	260	260	260	260	320	320	260	260	260	320
Table Width	M	mm	60	60	60	60	60	60	90	90	380	450	60	90	90	280
Throat Gap	N	mm	410	410	410	410	410	410	410	410	500	500	410	410	410	500

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GUILLOTINE SHEARS

Outstanding cutting quality and accuracy.

HGL

Hydraulic Swing-beam Shears



HGL											
TYPES	Capacity		Cutting Length	Rake Angle	Motor Output	Number of Hold-downs	Strokes per Minute	Capacity of Oil Tank	Back-gauge Range	Back-gauge Motor	Approx. Weight
	≤450	≤700									
	N/mm2	N/mm2									
	mm	mm									
HGL 2606	6	4	2560	1.6°	11	15	24	160	750	0.37	4700
HGL 3106	6	4	3060	1.6°	11	17	20	160	750	0.37	5500
HGL 3108	8	5	3060	1.8°	15	17	13	160	750	0.37	6450
HGL 4106	6	4	4060	1.2°	11	23	12	160	750	0.37	9400

MGH

Hydraulic Swing-beam Shears



MGH											
TYPES	Capacity		Cutting Length	Rake Angle	Motor Output	Number of Hold-Downs	Stroke per Minute	Oil Tank Capacity	Back-Gauge Range	Back-Gauge Motor	Approx. Weight
	≤450	≤700									
	N/mm2	N/mm2									
	mm	mm									
MGH 3106	6	4	3060	1.5°	11	15	8	170	1000	0.37	7000
MGH 3110	10	6	3060	2.0°	22	17	12	170	1000	0.37	9200
MGH 3113	13	8	3060	2.4°	30	17	12	220	1000	0.37	11500
MGH 3116	16	10	3060	2.7°	30	17	7	220	1000	0.55	15500
MGH 3120	20	13	3060	3.0°	37	18	7	280	1000	0.55	19600
MGH 4110	10	6	4060	2.0°	22	23	10	170	1000	0.37	13000
MGH 4113	13	8	4060	2.2°	30	23	8	220	1000	0.37	16100

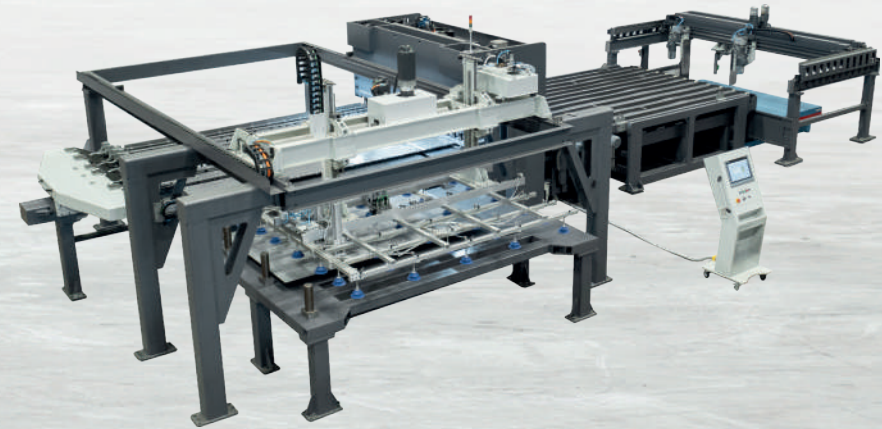
HNC

Hydraulic Variable-rake
Guillotines



CUTTING CENTER

Hydraulic Variable-rake Guillotine
with Automation



TYPES	Capacity		Cutting Length	Rake Angle	Motor Output	Working Pressure	Number of Hold-downs	Strokes per Minute	Capacity of Oil Tank	Back-gauge Range	Back-gauge Motor	Approx. Weight
	≤450	≤700										
	N/mm2	N/mm2										
	mm	mm		Degree	kW	kg/cm2	Pcs.	Cuts/min	Lt	mm	Kw	kg
HNC 3106	6	4	3070	0.5°-1.5°	11	260	16	20-32	240	1000	0.37	7800
HNC 3110	10	6	3070	0.5°-2.0°	22	260	15	12-18	360	1000	0.37	11000
HNC 3113	13	8	3070	0.5°-2.5°	30	260	15	9-14	360	1000	0.37	13000
HNC 3116	16	10	3070	0.5°-3.0°	30	260	15	8-14	400	1000	0.55	16500
HNC 3120	20	13	3070	0.5°-3.0°	37	260	16	6-10	400	1000	0.55	21000
HNC 3125	25	16	3070	0.5°-3.5°	45	260	15	4-6	600	1000	0.55	23000
HNC 4106	6	4	4070	0.5°-1.5°	11	260	21	16-25	360	1000	0.55	12000
HNC 4110	10	6	4070	0.5°-2.0°	22	260	21	9-14	360	1000	0.55	15000
HNC 4113	13	8	4070	0.5°-2.5°	30	260	21	7-14	400	1000	0.55	18000
HNC 4116	16	10	4070	0.5°-3.0°	30	260	21	7-12	400	1000	0.55	23500
HNC 4120	20	13	4070	0.5°-3.0°	37	260	21	6-9	400	1000	0.55	26000
HNC 6106	6	4	6070	0.5°-2.0°	18.5	260	30	12-18	360	1000	0.55	22000
HNC 6110	10	6	6070	0.5°-2.0°	22	260	30	6-10	400	1000	0.55	30000
HNC 6113	13	8	6070	0.5°-2.5°	30	260	30	6-10	400	1000	0.75	38000
HNC 6116	16	10	6070	0.5°-3.0°	37	260	30	5-9	400	1000	0.75	43000
HNC 6120	20	13	6070	0.5°-3.0°	37	260	30	5-9	600	1000	0.75	48000

BAYKAL is the market leader in high quality hydraulic guillotine shears and offers a variety of smart solutions for cutting sheet metal. The fully automatic cutting center is one of these innovations that contributes to productivity and customer-specific efficiency.

- Special version of the full automatic hydraulic guillotine shear machine
- Automatic sheet feed system
- Product discharge system.
- Energy-efficient
- User-friendly Touch screen operation
- Less noise pollution
- Integrated safety system

BLU
Ultra high power fiber laser cutting machine.



02
HIGH PRODUCTIVITY

01
ULTRA HIGH POWER RANGE
Up to 30kW

05
FLEXIBLE DESIGN

03
REINFORCED BODY

04
HIGH ACCURACY

BLU		
Working Area	Width	1500 to 3000 mm
	Length	3000 to 15000 mm
Laser Power	20-30 kW	
Resonator	IPG - nLIGHT - Max Photonics	
Cutting Head	Precitec ProCutter 2.0 (Standard)	
CNC Control Unit	Beckhoff CNC (18.5" TFT - Windows 10)	
Motion System	X Axis Rack and Pinion Y Axis Linear	
Motors & Drivers	Beckhoff	
Rapid Traverse	115 m/min.	
Vector Speed	165 m/min.	
Acceleration	2.2G (22m/s ²)	
Absolute Positioning Accuracy	±0.02 mm	
Repeatability	±0.02 mm	
Programmable Feed Rate	Up to 100 m/min.	
Transfer Table Motorized	Motorized - Automatic Exchange	
Max. Load Capacity	2500 kg for 2000x4000 mm / 3500 kg for 2000x6000 mm	
Nesting Software	LANTEK Expert Cut II or Metalix AutoNest Pro	
Nozzle Cleaning & Calibration	Automatic	
Bevel Cutting Head	Optional	
Automatic Nozzle Changer	Optional	
Automatic Nozzle Centering	Optional	
Fume Extractor	Optional	

Design and specifications are subject to change without notice

BLP

Extremely fast fiber laser cutting machine

01

LINEAR MOTION

02

ACCURACY

03

HIGHER SPEEDS

Speeds up to 170 mt./min.
Acceleration 4G

05

HIGH POWER RANGE

Up to 15 kW

04

COST EFFICIENCY

Low operating costs thanks
to energy efficiency and
reduced maintenance.



BLP		
Working Area	Width	1500mm
	Length	3000mm
Laser Power	6kW - 15kW	
Resonator	IPG- nLIGHT - Max Photonics	
Cutting Head	Precitec Procutter 2.0	
CNC Control Unit	Beckhoff CNC (21.5" TFT-Windows 10)	
Motion System	X + Y Axis Linear	
Linear Motors & Drivers	Beckhoff	
Rapid Traverse	170 m/min.	
Vector Speed	240 m/min.	
Acceleration	4.0G (40m/s ²)	
Absolute Positioning Accuracy	± 0.01 mm	
Repeability	± 0.01 mm	
Feed Rate	Programmable up to 150 m/min.	
Transfer Table Motorized	Motorized - Automatic Exchange	
Max. Load Capacity	1500 kg for Each Table	
Nesting Software	LANTEK Expert Cut II or Metalix AutoNest PRO	
Nozzle Cleaning & Calibration	Automatic	
Automatic Nozzle Changer	Optional	
Automatic Nozzle Centering	Optional	
Fume Extractor	Optional	

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BLM

Unique modular design with extra large capacity.

01

MODULAR DESIGN

Up to 24 meters.

04

HIGH POWER RANGE

Up to 15 kW

02

HIGH-QUALITY RESULTS

05

HIGH DYNAMICS

With movable cabinet.

03

MULTIPLE PARTS CUTTING

06

BEVEL CUTTING

Bevel Cutting head can rotate
+/-45 degrees.

BLM		
Working Area	Width	2000mm / 2500mm / 3000mm
	Length	up to 24000mm (min: 12000mm)
Laser Power	4 kW - 15 Kw	
Resonator	IPG - nLIGHT - Max Photonics	
Cutting Head	Precitec ProCutter 2.0 (Standard)	
CNC Control Unit	Beckhoff CNC (18.5" TFT - Windows 10)	
Motors & Drivers	Beckhoff	
Motion System	X Axis Rack and Pinion	
	Y Axis Linear	
Rapid Traverse	45 m/min.	
Vector Speed	65 m/min.	
Acceleration	1.2G (12 m/s ²)	
Absolute Positioning Accuracy	± 0.02 mm	
Repeatability	± 0.02 mm	
Max. Load Capacity	400 kg/m ²	
Nesting Software	LANTEK Expert Cut II or Metalix AutoNest Pro	
Nozzle Cleaning and Calibration	Automatic	
Bevel Cutting	Optional	
Automatic Nozzle Changer	Optional	
Automatic Nozzle Centering	Optional	
Fume Extractor	Optional	

BLE CFS

24/7 operation opportunity could be achieved with coil feed system according to your requirements.

01

SMART AUTOMATION

02

SMALL FOOTPRINT

03

MAXIMUM PRODUCTIVITY

04

MID POWER SOURCE

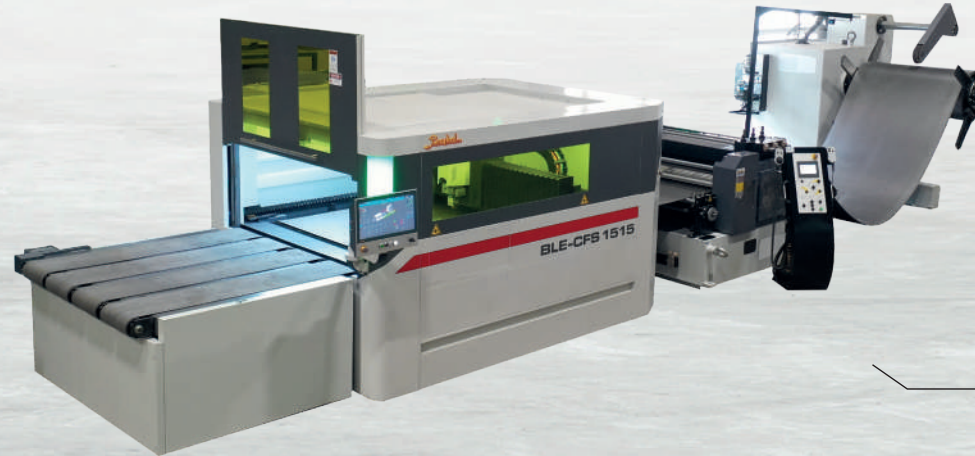
Up to 4 kW

05

CUSTOMIZABLE

06

EFFICIENCY



BLE		
Working Area	Width	1500 mm
	Length	1500 mm
Laser Power	1 kW - 6 kW	
Resonator	IPG - nLIGHT - Max Photonics	
Cutting Head	Precitec ProCutter Thunder (Standard)	
	Raytools BS Series	
	Precitec ProCutter 2.0 (Optional)	
CNC Control Unit	Beckhoff CNC (18.5" TFT-Windows 10)	
Motors and Drivers	Beckhoff	
Motion System	Rack and Pinion	
Rapid Traverse	95 m/min.	
Vector Speed	135 m/min.	
Acceleration	1.5G (15m/s ²)	
Absolute Positioning Accuracy	± 0.03 mm	
Repeatability	± 0.04 mm	
Programmable Feed Rate	Up to 50 m/min.	
Transfer Table	Single Table	
Max. Load Capacity	750 kg for Each Table	
Nesting Software	LANTEK Expert Cut II / Metalix AutoNest PRO	
Nozzle Cleaning & Calibration	Automatic	
Fume Extractor	Optional	

CFS DECOILER	
Coil Loading Capacity	6000 kg
Drum Type	Hydraulic Expansion
Hydraulic Unit	Yes
Drum Number	Single
Coil Hold Down Arm	Hydraulic
Coil Hold Up Arm	None
Coil Inner / Outer Diameter	480 ~ 520 / 1300
AC Motor Power	3.0 kW
Gearbox Type	Conical Type, Helicat Geared, Low Backlash
Power Transfer Type	Sprocket
Speed Control	Yes
Brake System	Magnetic Brake
Loop Control	Distance Controlled Laser Sensor
Coil Loading Car	Yes
Coil Centering	Manuel

CFS STRAIGHTENER FEEDER	
Openable Rolls Group	~ 20 Degrees Crocodile Openable Hydraulic Driven
Straightener Drive Type	Gear Driven
Straightener Adjustment Gearbox	Hand Wheel With Indicator / 3 Pieces
Straightener Rolls Pressure Gearbox	3 Pair - Shaft Fitted
Straightener Rolls Arrangement	4 Bottom / 3 Top
Number of Straightener Rolls	7
Diameter of Straightener Rolls	100 mm
Number of Feeder Rolls	2
Diameter of Feeder Rolls	125 mm
Feeder Rolls Pressure Adjustment	Pneumatic
Servo Motor Power	24 nm
Gearbox Type	Conical Type, Helical Geared: Keyless, Shrink Disc, Low Backlash
Piloting System	None
Sheet Positioning Inside Die	Push Button

Design and specifications are subject to change without notice

BLT

Tube processing with laser technology.

01

FLEXIBILITY

Unload short or long parts, while scrap is automatically managed.

02

RELIABLE

Optimized quality and cutting speed even on thick materials.

03

PRECISION

Change section, material, and thickness without sacrificing cut quality.

04

ACCURACY

Accurate cut geometries even on difficult designs.

05

PRODUCTIVITY

The highest productivity at the lowest cost per part.

06

EFFICIENCY

Automatic. Technological. High-performing



	BLT	
BLT Series	6220	8220
Laser Power	1 kW - 6 kW	
Resonator	IPG- nLIGHT - Max Photonics	
Cutting Head	Precitec LightCutter 3D Raytools 3D	
CNC Control Unit	Beckhoff CNC (18.5" TFT-Windows 10)	
Bevel Cutting	Optional	Optional
Max. Tube Length	6100 mm	8100 mm
Max. Part Length	4000 mm	
Min. Auto Loading Length	2000 mm	
Acceleration of Driver Chuck	7000 Deg/s ²	
Speed of Driver Chuck	560 7/s	
Types of Profiles	Round, Rectangular H, I, Custom Shapes	
Min. / Max. Round Diameter	Ø16 to Ø220 mm	
Min. / Max. Square Diameter	16x16 mm to 220x220 mm	
Length of Last Part	110 mm	
Max. Tube Weight	240 kg	
Min. Material Thickness	0.8 mm	
Rapid Speed	90 m/min.	
Vector Speed	130 m/min.	
Acceleration	1.0G (10m/s)	
Absolute Positioning Accuracy	± 0.01 mm	
Repeatability (X & Y Axis)	± 0.02 mm	
Programmable Feed Rate	Up to 50m/min. Actual feed rate depends on material and thickness	
Automatic Loading	Optional	
Automatic Unloading	Optional	
Fume Extractor	Optional	

Design and specifications are subject to change without notice

BLC

High performance and high quality in one feature

01

ADVANCED TECHNOLOGY

02

SHEET + TUBE PROCESSING

03

MAXIMUM PRODUCTIVITY

04

VERSATILE APPLICATION

05

UP TO 8 METERS PROFILES

06

UNIQUE DESIGN



BLC		
Working Area	Width	1500 to 2000 mm
	Length	3000 - 4000 - 6000 mm
Laser Power		1 kW - 15 kW
Resonator		IPG - nLIGHT - Max Photonics
Cutting Head		Precitec ProCutter 2.0
For Tubes / Profiles	Max. Tube Length	6100 mm (8100 mm Optional)
	Max. Part Length	4000 mm
	Min. Auto Loading Length	2000 mm
	Acceleration of Driver Chuck	7000 Deg/s ²
	Speed of Driver Chuck	560°/s
	Types of Profiles	Round, Rectangular, H, I, Custom Shapes
	Min. / Max. Round Diameter	Ø16 to Ø220 mm
	Min. / Max. Square Diameter	16x16 mm to 220x220 mm
	Length of Last Part	110 mm
	Max. Tube Weight	240 kg
	Min. Material Thickness	0.08 mm
CNC Control Unit		Beckhoff CNC (18.5" TFT-Windows 10)
Rapid Traverse		115 m / min.
Vector Speed		160 m / min.
Acceleration		2.2G (22 m / s ²)
Absolute Positioning Accuracy		± 0.01 mm
Repeatability (X & Y Axis)		± 0.02 mm
Programmable Feed Rate		Up to 50 m/min. Actual feed rate depends on material and thickness
Shuttle Table		Standard
Automatic Loading		Optional

Design and specifications are subject to change without notice

BLS PRO

High flexibility and high performance.

01

FLEXIBILITY

Oversize sheets cutting

04

HIGH-END PRODUCTIVITY

Achieve high feed rates and process the workpiece productively.

02

HIGH-QUALITY RESULTS

05

MAXIMUM PRECISION

Ability for cutting different materials and without affecting cut quality.

03

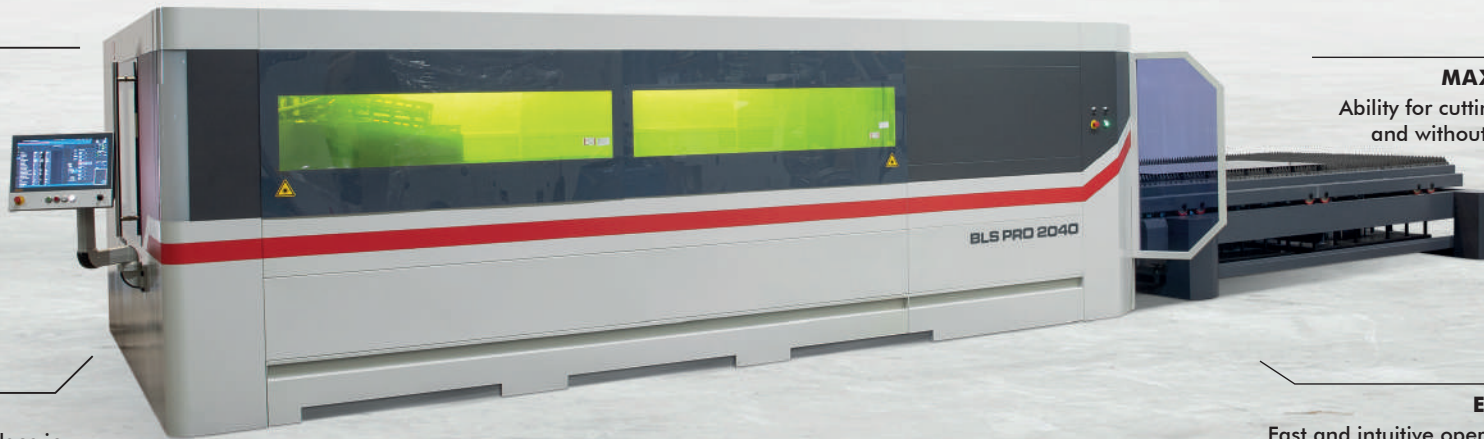
TOP CUTTING EDGES

Create high-quality cutting edges in thick sheet.

06

EASY TO OPERATE

Fast and intuitive operation performance.



BLS PRO		
Working Area	Width	1500 to 3000 mm
	Length	3000 to 12000 mm
Laser Power	6 kW - 15 kW	
Resonator	IPG - nLIGHT - Max Photonics	
Cutting Head	Precitec ProCutter 2.0 (Standard)	
CNC Control Unit	Beckhoff CNC (18.5" TFT - Windows 10)	
Motion System	X Axis Rack and Pinion Y Axis Linear	X + Y Axis Linear
Motors & Drivers	Beckhoff	Beckhoff
Rapid Traverse	115 m/min.	150 m/min.
Vector Speed	165 m/min.	215 m/min.
Acceleration	2.2G (22m/s ²)	3.0G (30m/s ²)
Absolute Positioning Accuracy	±0.02 mm	±0.01 mm
Repeatability	±0.02 mm	±0.01 mm
Programmable Feed Rate	Up to 100 m/min.	Up to 125 m/min.
Transfer Table Motorized	Motorized - Automatic Exchange	
Max. Load Capacity	2500 kg for 2000x4000 mm / 3500 kg for 2000x6000 mm	
Nesting Software	LANTEK Expert Cut II or Metalix AutoNest Pro	
Nozzle Cleaning & Calibration	Automatic	
Bevel Cutting Head	Optional	
Automatic Nozzle Changer	Optional	
Automatic Nozzle Centering	Optional	
Fume Extractor	Optional	

Design and specifications are subject to change without notice

TOWER

Extraordinary flexible and simple to operate storage system.

01

MULTIPLE STATIONS

02

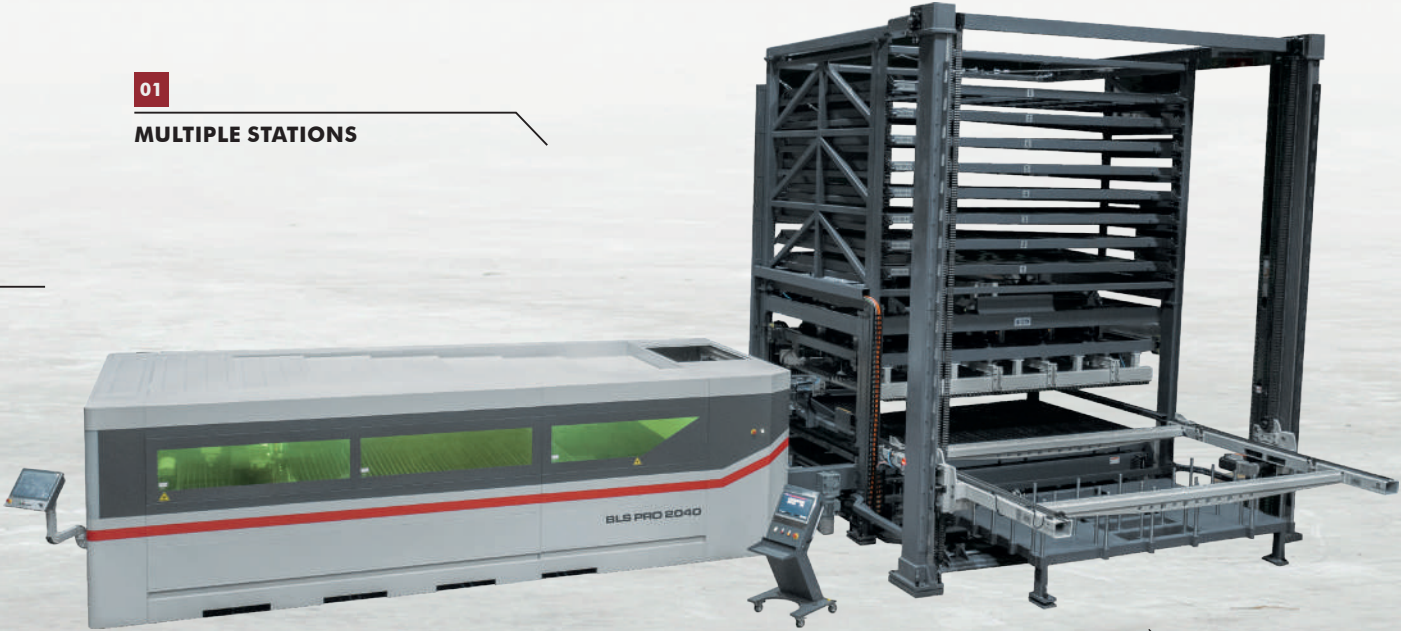
EASY INTEGRATION

03

VERSATILE PRODUCTIVITY

04

24/7 OPERATION



TOWER	
Applicable Machine Size	1500x3000 2000x4000
Max. Sheet Size (Thickness x Wide x Lenght)	20x2000x4000 mm
Max. Load Per Compartment	3000 kg
Lifting Speed	30 m/min.
Number of Compartments	(Up to) 8 Units
Max. Loading and Unloading Course	200mm
Loading and Unloading Positioning Accuracy	± 1 mm
Capacity of Loading and Unloading System	1.300 kg
Servo Motor	Beckhoff

BLE PRO

Cost-effective and productive.

01

PRODUCTIVE

High dynamism increases productivity on thin sheets compared to a conventional drive system.

02

ACCURATE

Precise and repeatable in cutting and laser head positioning. Excellent cutting quality.

03

MODULAR

Suitable for any production need

04

USER FRIENDLY

Easy to use interface and programming software.

05

PROFITABLE

Low operating costs and reduced maintenance.



BLE PRO		
Working Area	Width	1500 mm
	Length	3000 mm
Laser Power	1 kW - 6 kW	
Resonator	IPG- nLIGHT - Max Photonics	
Cutting Heads	Precitec ProCutter Thunder	
	Raytools BS Series	
	Precitec ProCutter 2.0 (Optional)	
Motion System	Rack and Pinion	
CNC Control Unit	Beckhoff CNC (18.5" TFT-Windows 10)	
Motors & Drivers	Beckhoff	
Rapid Traverse	95 m/min.	
Vector Speed	135 m/min.	
Acceleration	1.8G (18m/s ²)	
Absolute Positioning Accuracy	± 0.03 mm	
Repeatability	± 0.04 mm	
Programmable Feed Rate	Up to 50 m/min.	
Transfer Table Motorized	Motorized - Automatic Exchange	
Max. Load Capacity	1250 kg for Each Table	
Nesting Software	LANTEK Expert Cut II or Metalix AutoNest PRO	
Nozzle Cleaning & Calibration	Automatic	
Automatic Nozzle Changer	Optional	
Automatic Nozzle Centering	Optional	
Fume Extractor	Optional	
Protected Side Windows	Optional	

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COMPACT TOWER

02

MAXIMUM PRODUCTIVITY
Shorter cycle times.

01

COMPACT
Designed to take up as little floor space as possible.

04

UNIQUE DESIGN
Easy to assemble and quick to install.

05

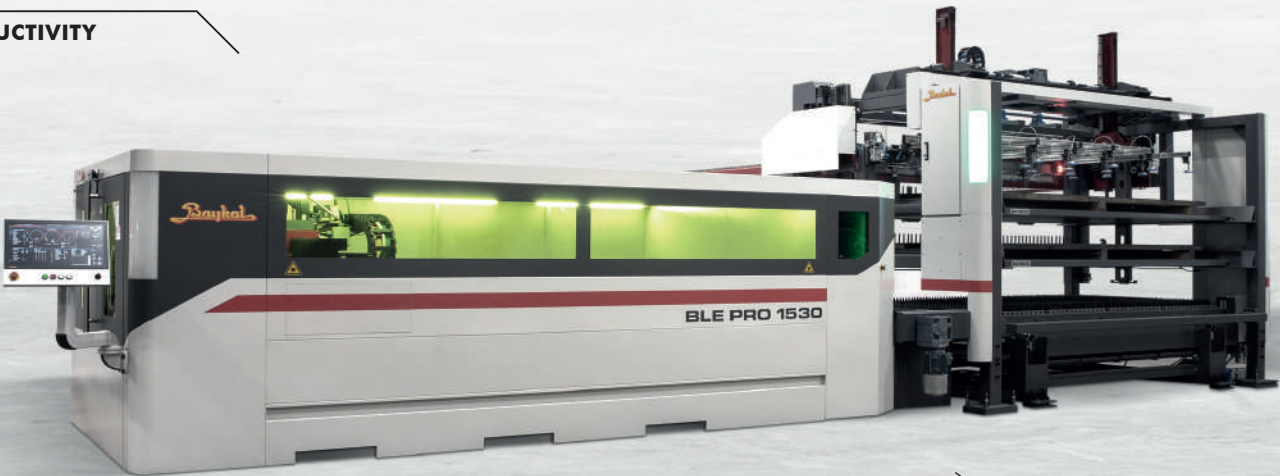
RELIABLE
More reliable and optimized material management.

06

VERSATILE APPLICATION
Combined loading/unloading system complete with storage tower.

03

SMART AUTOMATION
Enable unsupervised production.



COMPACT TOWER	
Applicable Machine Size	1500x3000 mm
Max. Sheet Size	1500x3000 mm
Min. Sheet Size	1000x1000 mm
Max. Sheet Weight (Handling)	600 kg
Max. Material Stacking Weight (on Pallet)	3000 kg
Number of Compartments	2 Units (Stacking and Scrap)
Max. Sheet Metal Thickness	16 mm
Loading and Unloading Cycle Time	135 Seconds
Cycle Time: Start with taking scrap sheet from transfer table to pull over on pallet and then taking new sheet from pallet to transfer table.	

BPL H

Highly accurate and reliable performance with positioning speeds.

01

MULTI PROCESS

- Multi Torch
- Bevel Cutting
- Oxy-Fuel Cutting
- Multi drill
- Tube Cutting

04

HIGH PRECISION

02

SURECUT

- Pronest
- EdgeConnect
- XPR

03

FAST & ACCURATE POSITIONING

05

AUTOMATIC HEIGHT CONTROL



BPL H		
Cutting Area	Width	1500 mm to 6000 mm
	Length	3000 mm to 28000 mm
Plasma Supply		Max Pro 200 XPR 170 XD - XPR 300 XD - XPR 460
Gas Console		Manuel Core / VWI / Optimix
CNC Control Unit	Tecnos CNC	Hypertherm EdgeConnect
	15" TFT-Windows 10	19.5" TFT-Windows 10
Nesting Software	LANTEK Expert Cut II	ProNest
Servo Motors & Drivers	Yaskawa	Rexroth
Linear Rail Guides	Rexroth	
Torch-Height Travel	Ballscrews on Dual Lineer Guides	
Feed Rate	30 m/min.	30 m/min.
Mechnaical Accuracy	± 0.05 mm	± 0.05 mm
Pipe & Tube Cutting Device	Optional	Optional
Multiple Plasma Torches	Optional	Optional
Bevel Cutting Head	Optional	Optional
Multiple Oxy Fuel Torches	Optional	Optional
Multi Drilling Device	Optional	Optional
Fume Extrator	Optional	Optional

BPS

Ergonomically designed with stable table construction and integrated extraction.

01

MULTI PROCESS

- Multi Torch
- Bevel Cutting
- Multi drill
- Tube Cutting

04

HIGHER SPEEDS

02

SURECUT

- Pronest
- EdgeConnect
- XPR

03

RIGID CONSTRUCTION

05

COST EFFECTIVE

BPS		
Cutting Area	Width	1500 mm to 4000 mm
	Length	3000 mm to 14000 mm
Plasma Supply		Max Pro 200 XPR 170 XD - XPR 300 XD - XPR 460
Gas Console		Manuel Core / VWI / Optimix
CNC Control Unit		Tecnos CNC Hypertherm EdgeConnect
		15" TFT-Windows 10 19.5" TFT-Windows 10
Nesting Software		LANTEK Expert Cut II ProNest
Servo Motors & Drivers		Yaskawa Rexroth
Linear Rail Guides		Rexroth
Torch-Height Travel		Ballscrews on Dual Lineer Guides
Feed Rate		30 m/min. 30 m/min.
Mechnaical Accuracy		± 0.05 mm ± 0.05 mm
Bevel Cutting Head		Optional Optional
Pipe & Tube Cutting Device		Optional Optional
Multiple Plasma Torches		Optional Optional
Fume Extrator		Optional Optional

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High Efficiency Hybrid Solutions

Baykal Hybrid with 2-tandem 6100mm x 600 tons press brake is engineered to optimize your industrial production processes. This tandem 600-ton hybrid system maximizes energy efficiency while enabling precision bending operations. With advanced engineering and modular design, it adapts seamlessly to all production needs and minimizes downtime in your operations.



Double efficiency with automation solutions

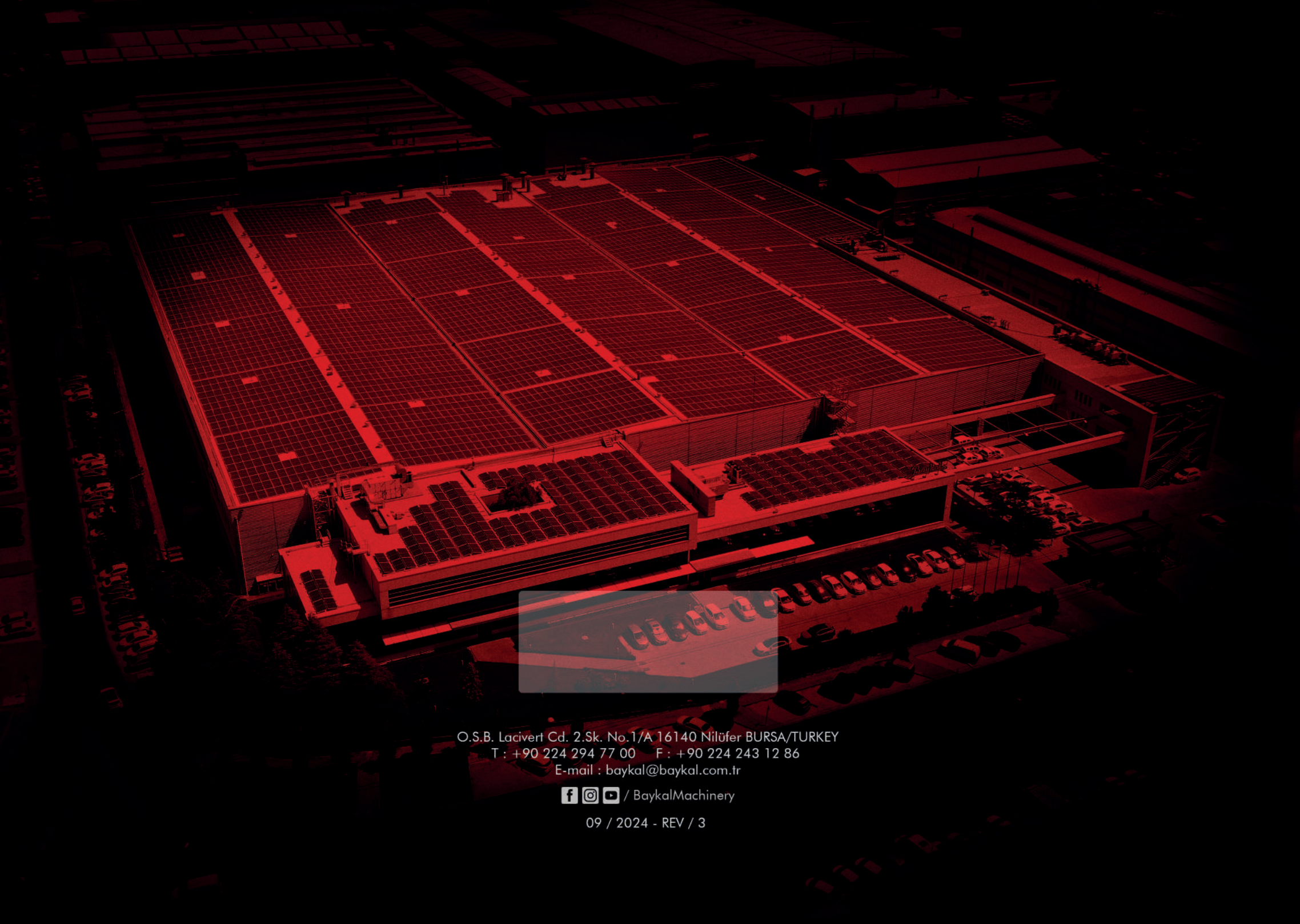
With its high-tech engineering, Baykal Machinery continues to offer flexible solutions for all your needs. Turn your direct bending operations into efficiency with Hybrid tandem press brake automation system. Moreover, minimise loss of time and efficiency.

SPECIAL PROJECTS

Precise power

The Baykal APHS 9100 mm x 1400 tons press brake ensures maximum bending accuracy with its single-body design. The extended throat gap and increased daylight provide flexible production capabilities. Its robust frame construction facilitates a faster and easier bending process, even for challenging bending applications. The mobile control unit offers a compact and efficient working experience.





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   / BaykalMachinery

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