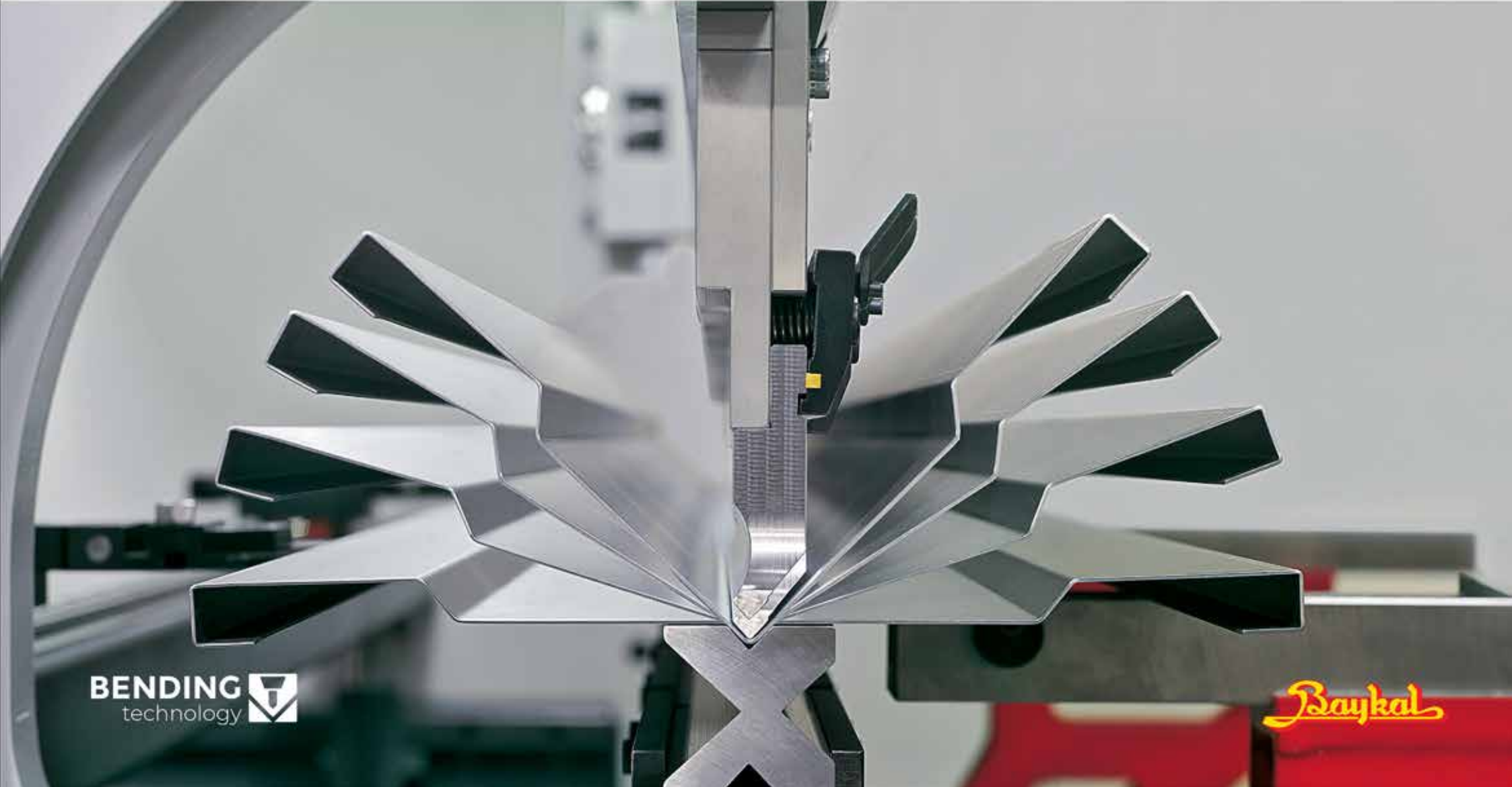


APHE CNC PRESS BRAKE



APHE CNC PRESS BRAKES

Fast, Easy to Use and Economic

New APHE CNC Press brakes offers high precision and optimal productivity with low investment costs. Rigidly welded, mono-block steel frame design provides minimum deflection under load.

01 Efficient and Economical

02 Easy to operate

03 Optimal Productivity

04 Compact Design



Cost Effective Bending Solution

Baykal APHE Press Brakes are designed to provide Optimal productivity with low investment cost. Bend accuracy and repeatability at least five times higher than a conventional press brake

Best Value

Robust Design

Easy to Use

Easy Transport

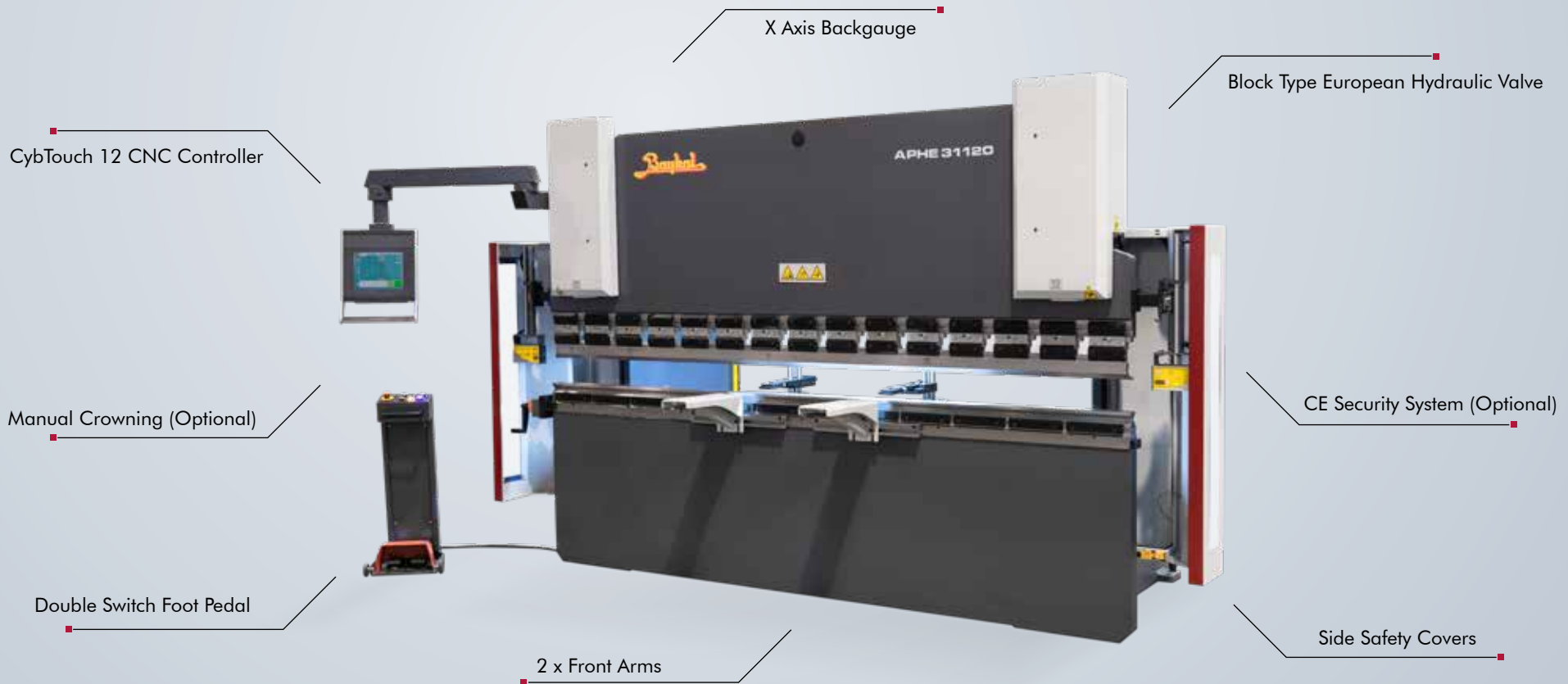
General Features

- Rigidly welded, monoblock machine frame for minimum deflection under load
- Easy-to-use Touch Screen CNC system
- Ideal for multi-bending of complex forms
- Fully synchronised Y1-Y2 axes to $\pm 0.01\text{mm}$ via proportional valves and precision linear scales
- CNC controlled Backgauge system
- Euro-style top clamping
- Top tool: sectionalized gooseneck punch
- Bottom tool: sectionalized 4-V die
- Two front arms
- Block-type European hydraulics
- Dual footswitch console with emergency stop
- Side and rear safety gates (electrically interlocked and/or light or laser guarded)



Optimum Solutions for Your Requirements

APHE Press Brakes are ideal combination cost efficiency and high productivity with low investment and operation cost. Thanks to its compact dimensions, which is a great advantage for transportation and cuts shipping costs. Besides economic advantages APHE series are equipped with high quality components.





- **Fast adjustment feature**
- **Strong structure**
- **Best quality components**
- **Minimum maintenance**

Backgauge Options

(A) X-axes backgauge:

- Travel on guides and ballscrew
- AC-Direct driven
- Range : 600 mm
- Speed : 150 mm/s
- Positioning precision : ± 0.05 mm

(B) X-R axes backgauge:

- Travel on guides and ballscrew
- AC-Direct driven
- Range
 - X-axis : 600 mm
 - R-axis : 160 mm
- Travel speed (max)
 - X-axis : 150 mm/s
 - R-axis : 150 mm/s
- Positioning precision
 - X-axis : ± 0.05 mm
 - R-axis : ± 0.1 mm



Advance CNC Controller Options

Touch Screen
Extensive Database
User Friendly Interface

CybTouch 12 is intended specifically for synchronized press-brakes.

As the entire CybTouch numerical control range, CybTouch 12 features an intuitive touch screen user interface, offering a high integration of functions. Thanks to its large keys, online help, user-friendly software and many automatic functions that constantly guide the operator, CybTouch 12 is as powerful as it is easy to use.

CybTouch 12 is integrated into a sleek and modern housing specially designed to be attached to a swiveling arm, or can optionally also be delivered as a robust panel.



1
Compact

2
Easy operating

3
Better Bending

4
Powerfull

- Large touchscreen, with vivid colors and high-contrast.
- Hand drawing TouchProfile function.
- Simple pages, clear display, large keys.
- Intuitive and user-friendly interface.
- Complete programming for efficient mass-production with multiple bends.
- Easy single bends thanks to the EasyBend page.
- Online help and interactive warning pop-up.
- Comfortable wireless software updating and data back-up using PC or Notebook.
- USB port for memory sticks.
- Large selection of languages available.
- Automatic bend sequence calculation. (Optional)

■ DELEM 53-T



The DA-53T touch CNC control provides a modern compact and versatile solution for a wide range of press brake applications without compromising machine functionality. Offering easiest CNC programming based on the Delem graphical touch screen user interface.

- “Hot-key” touch navigation
- 10.1” high resolution color TFT
- Up to 4 axes (Y1,Y2 + 2 aux. axes)
- Crowning control
- Tool / material / product library
- Servo and frequency inverter control
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.
- TandemLink (Optional)
- USB memory stick interfacing
- Profile-T offline software (Optional)

■ ESA S630



The most powerful in its class. 10” touch screen with powerful graphic. All the performances of a high-level CNC in an economical and user-friendly controller. High-level graphic programming for easiness of use and sophisticated algorithms to make the most of your machine.

- Graphic colour 10” touch screen display (1024 x 600 pixels resolution).
- Up to 4 axes (Y1,Y2 + 2 aux. axes)
- Crowning control
- 128 MB silicon disk.
- Interactive 2d graphic editor for work-pieces and tools data entry
- 2D graphic display of machine frame, work-piece and tools
- Manual 2D graphic identification of the best bending sequence(Optional)

Correct needs for correct solutions

Better and easier solution with high quality components.

■ X Axis Backgauge

Backgauge of the machine comes with x axis motorized and R axis manual movement standard



■ Back light Barrier

Safety for rear of the machine body



■ Front Support Arms

2 adjustable front support arms



■ Security System (Optional)

Fiessler Akas laser light guard technology is used to apply Europe CE regulations.



■ Manuel Crowning (Optional)

With manual crowning perfect bends are much easier.

Tools and Clamping System

Baykal offers high precision bending results with different type of tool options



—■ Baykal Euro Type Bottom Tool



—■ Baykal Euro Type Top Tool and Clamping System



—■ Baykal Quick Release System **(Optional)**



—■ Baykal Special Bottom Tool **(Optional)**

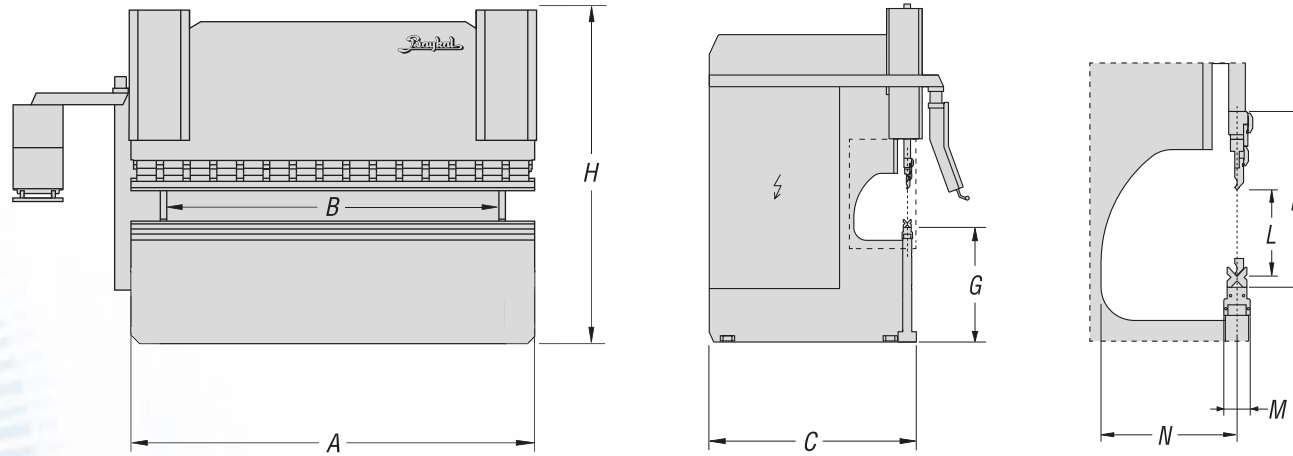


▪ **Standard Features and Equipment**

- 3 Axis motorized Y1 + Y2 + X, R Manual
- Cybtouch 12 Touch Screen CNC Controller
- Mechanical Crowning
- Euro - Style Top Clamping
- BS Top Tools (835 mm + 805 mm Sec.)
- Bottom Top Tools (835 mm + 805 mm Sec.)
- Two Laterally Adjustable Front Support Arms
- Side Safety Covers
- Hydraulic Valve: Hawe (Hoerbiger)
- Precision Linear Scale Measurement : GIVI MISURE

▪ **Optional**

- 4 Axis motorized Y1 + Y2 + X + R
- Delem 53-T and ESA 630 Touch Screen CNC Controller
- CNC Crowning
- Fiessler Akas Laser Finger Protection
- Quick Release
- Oil coolant
- Air condition
- Additional Finger Blocks



TECHNICAL DATA

TYPES	Capacity Ton	Motor Output kW	Oil Tank Volume Lt	Speeds (mm/s)			X Axis Speed mm/s	X Axis Stroke mm	R Axis Stroke mm	X Axis Accuracy mm	Approx. Weight Ton	Bending Length		Bed Height mm	Machine Height mm	Daylight Opening		Stroke mm	Throat Gap mm	
				Approach	Working	Return						A	B			K	L			N
APHE 31120	120	11	140	160	10	130	150	600	160	+ 0.05	5.5	3100	2550	850	2250	375	180	255		
APHE 31160	160	15	140	160	10	130	150	600	160	+ 0.05	6.4	3100	2550	850	2250	375	180	255		
APHE 31200	200	18.5	140	150	10	130	150	600	160	+ 0.05	7.8	3100	2550	850	2550	445	210	255		
APHE 41200	200	18.5	140	160	10	110	150	600	160	+ 0.05	10	4100	3550	850	2550	445	210	255		

▪ Design and specifications are subject to change without notice

Baykal

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