Data Sheet

CYBELEC
INFRANOR GROUP COMPANY

Numerical Control — CybTouch 6 C

The CybTouch 6 C for conventional* press brakes is specifically intended for sheet metal bending.

**Press brakes with torsion bar.*

Ordering information

CybTouch 6 C

- In box version white color — **S-CBT-62CA10/BW**
- In box version grey color — **S-CBT-62CA10/BG**
- In panel version — **S-CBT-62CA10/P**

Options:

RFlink USB key for PC including CybTouchTools software — **S-OPT-RFLINK**

Wireless *RFlink* USB key for PC.

Advantages

FOR OEM

- Can easily be integrated into existing electrical box diagrams. Ideal for upgrading machines without NC with minimal changes.
- Reduced electrical wiring, electrical cabinet size and equipment for lower start-up costs on each press brake.
- Flexible software for configuration of axes, inputs-outputs and auxiliary functions according to specific needs.
- A configuration table for valves sequencing allows total flexibility to adapt the numerical control to the hydraulic.
- Screen content can be simplified to its minimum by removing all unnecessary functions, buttons or information.
- Quick set-up thanks to wizards for adjusting axes, gains, speeds, beam and indexes.
- New indexing functions reduce the quantity of switches and wiring, while providing more reliable indexing.
- CybTouch accepts encoders with or without complementary signals.
- RFlink*****, a wireless radio frequency transmission integrated in the CybTouch, allows easy parameters backups or firmware upgrades. This provides modern, fast and simple communication, with no need to open the housing, no need of connecting cable.

FOR END USER

- Very intuitive, no explanations required.
- Operator immediately feels confident and comfortable using this control.
  User intuitively enters the angle, the desired position of the bend and the thickness of the material. No need to erase, memorize or change modes. The depth and back gauges, are automatically adjusted.
- EasyBend page provides immediate easy use of the machine: a second operator can briefly interrupt production without changing the program when an urgent bend is required.
- Energy saving thanks to integrated Eco mode function that automatically stops the main pump after x minutes of inactivity.
- Full touch screen human machine interface offers the best of modern technology.
- Colors are vivid but not aggressive, providing excellent readability thanks to the large characters and big buttons.
- Recurrent programs for producing complex parts can be created and memorized for easy reuse.
- Pop-up messages for security or external malfunctions.
- RFlink***** wireless radio frequency data communication allows backup and restoring operations without any cable connection to the numerical control.
- Many languages available directly in the CybTouch. Instant language change without restarting the NC.
- Internal backup in a special safe memory allows the user to restore at any time the original parameters; machine is running again in an extremely short time in the event of a memory loss or involuntary parameter modification.

**Need RFlink USB key (option)*

Axis and bending functions

The below elements are available and can be configured on CybTouch P by the OEM.
However, some functions depend on the machine construction.

Available features depend on the number of available axes and inputs/outputs.

Back gauge axis & depth gauge
Y and X axes.
Auto-tuning of the axes.
Configurable retraction of the back gauge during the bending process.
Indexing in several modes.
Encoders with or without complementary signals.
Inch / mm.

Bending features
Program page at start up for quick accessibility.
User friendly graphic tool management.
Automatic calculation of: • Bend depth. • Back gauge positioning. • Angle correction. • Bend allowance. According to the programmed material, thickness, bend angle and selected tools.
Variable opening (TDC) for each sequence
Backgauge clearance during the bending process (yes / no).
Automatic back gauge correction according to the bend and flange length (bend allowance).
Sequence repetition.
Part counter with auto-stop.
Time and stroke counters for oil service.
Eco mode for main pump power off and electricity saving (green mode).
Pump start button.

Memory capacity	
Punches	10
Dies	10
Programs	50
Sequences per program	12

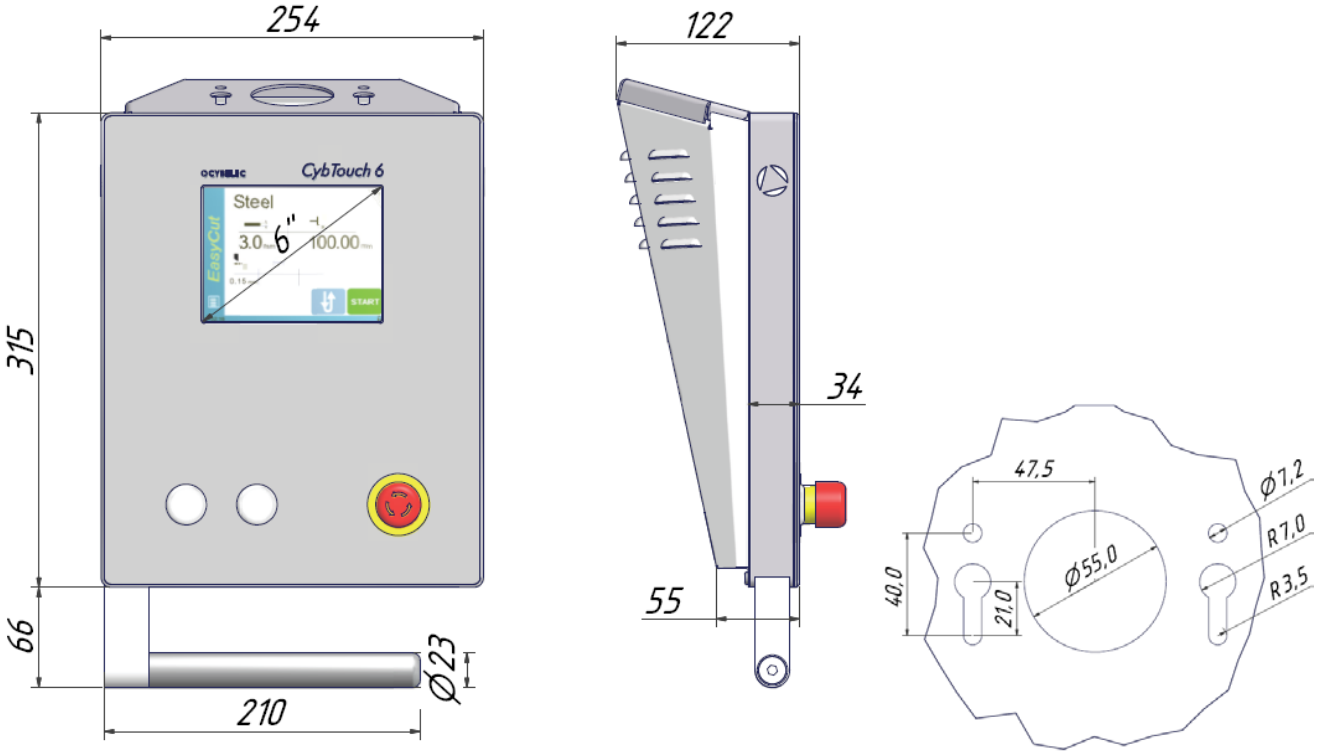
Technical Characteristics

Characteristic	CybTouch 6 C
Screen	5.7" color graphic CRT screen 640 x 480 pixels with LED backlight control.
Work memory	SRAM / SDRAM
System memory	FLASH memory with firmware update via RFlink.
Communication	Cybelec RFlink* (radio frequency link).
Axis	• +/- 10VDC management of AC/DC drives and motors. • 0-10 VDC frequency converter for AC asynchronous motors. • SP-SN-HS 2 speeds mode. • SP-SN 0-10 VDC 2 adjustable speeds.
Units	Conversion Inch/mm.
Power supplies	• NC: stabilized + 24VDC -15% / + 20% 10W • digital inputs/outputs: stabilized + 24VDC -15% / + 20%
Encoder inputs	2 encoders 5 VDC or 12 VDC* or 24 VDC* (* = external power supply). Complementary signals are not necessary, but recommended.
Power supplies for encoders	5 VDC (supplied by CybTouch) max. 250 mA for each encoder.
Optocoupled Digital inputs	6 inputs.
Analog inputs	1 analog input 0-10 VDC..
Digital outputs	10 outputs Optocoupled, fuse protected. 24 VDC source mode, typ. 0.7A / output. Possibility to define 2 outputs for doubling the current.
Analog outputs	2 analog outputs -/+10 VDC, impedance out < 100 Ω, load ≥ 1 kΩ (max 15 mA). Short circuit proof.
DC reference voltage	10V +/- 3mV, 50 mA max
Operating conditions	Min. 5° Celsius, max. 40° Celsius. Relative humidity 10 to 85% noncondensing.
Dimensions	See diagram next page.
EC Directives	IEC61131-2.

**Need RFlink USB key (option)*

Dimensions

Box version



Panel version