Data Sheet

CYBELEC
INFRANOR GROUP COMPANY

Numerical Control — CybTouch 6 P

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

**Press brakes with torsion bar.*

Options

Option: Wireless *RFlink* USB key for PC.

Option: Earthing kit to easily mount and earth the cable shields.

Ordering information

- **CybTouch 6 P 2 axes (Y-X)**
  - In box version, white color — **S-CBT-62PA12/BW**
  - In box version, grey color — **S-CBT-62PA12/BG**
  - In panel version — **S-CBT-62PA12/P**
  - *NB, The emergency button is included in the delivery of the CybTouch.*
  - *The 2 other buttons on the left are not delivered and the holes are hidden.*

Earthing kit (option), see above — **S-OPT-CBT6/EKIT**
RFlink USB key for PC (option), with *CybTouchTools* software — **S-OPT-RFLINK**

Advantages

FOR OEM

- 3A outputs for direct operation of non-safety valves without passing through relays.
- 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.
- 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 6 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, pressure and crowning 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 6.
- 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
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 tool management.
Automatic calculation of: • Bend depth. • Bend pressure. • Back gauge positioning. • Crowning. • Angle correction. • Bend allowance. According to the programmed material, thickness, bend angle and selected tools.
Pressure management.
Crowning (pressure or mechanical type).
Up to 10 pre-programmable types of materials.
Backgauge clearance during the bending process (yes / no).
Automatic back gauge correction according to the bend and flange length.
Sequence repetition.
Part counter with auto-stop.
Time and stroke counters for oil service.
Eco mode.
Pump start button.

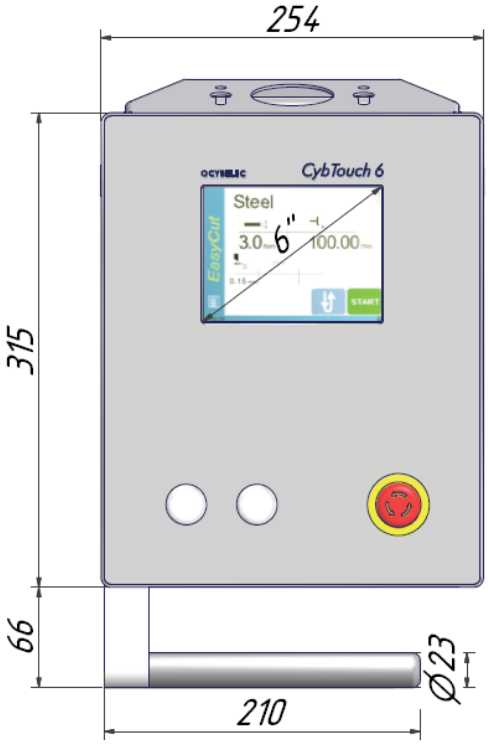
Technical Characteristics

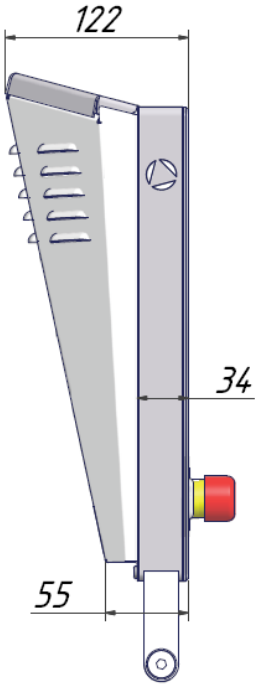
Characteristic	CybTouch 6 P
Screen	5.7" color graphic CRT screen 640 x 480 pixels with LED backlight control.
Work memory	SRAM
System memory	FLASH memory with firmware update via RFlink.
Communication	Cybelec RFlink (radio frequency link).
Axis	• +/- 10VDC management of AC/DC drives and motors. • 0-10 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% 15W • 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	16 inputs.
Analog inputs	2 analog inputs 0-10 VDC. Short circuit proof.
Digital outputs	12 outputs Optocoupled short circuit proof. 24 VDC source mode, max. 3A. Possibility to define 2 outputs for doubling the current.
Analog outputs	4 analog outputs -/+10 VDC, impedance out < 100 Ω, load ≥ 2 kΩ (max 15 mA). Short circuit proof.
Reference voltage	One of the above analog outputs is used for the 10VDC reference.
Operating conditions	Min. 5° Celsius, max. 40° Celsius. Relative humidity 10 to 85% noncondensing.
Dimensions	See diagram next page.
EC Directives	IEC61131-2

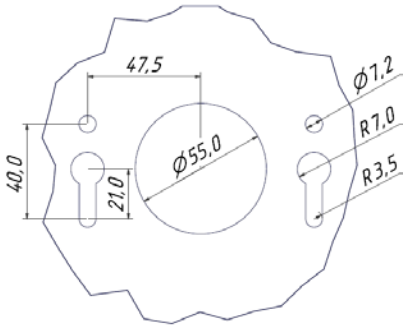
Memory capacity	
Punches	50
Dies	50
Programs	200
Sequences per program	24

Dimensions

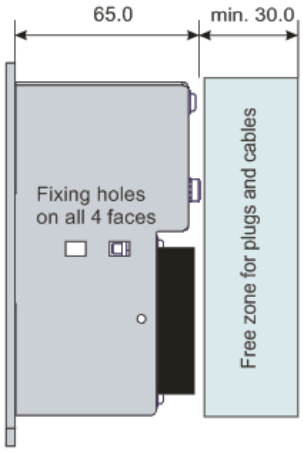
Box version

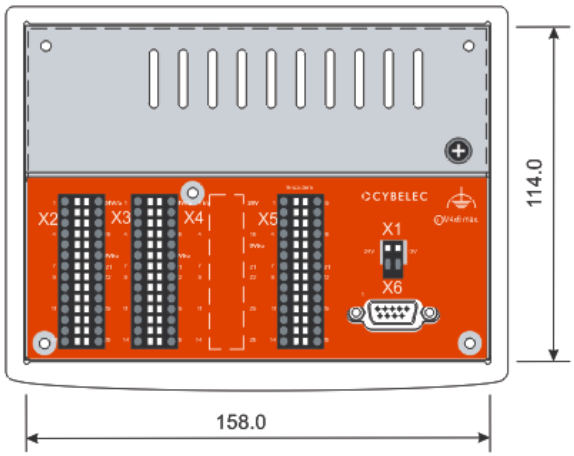






Panel version





Panel hole dimensions

160.0 x 116.0 +/- 0.5 mm