

Numerical control

CybTouch 15PS Win

CybTouch 15PS Win is an outstanding numerical control for press brakes with a new solution all-in-one:

- Semi-compact control with a 15" modern streamlined glass surface full touchscreen and the CNC board mounted on the back of the screen.
- Up to 6 electric axes in analog, CANopen or EtherCAT.
- Interface to all kind of hydraulic systems, I/O and analogue axes thanks to the CybMVA modules placed inside the electrical cabinet.



In addition to all the features available to control simple as well most sophisticated press brakes, hydraulic, electrical and hybrid, CybTouch 15PS Win offers also an open system allowing customization to be up to Industry 4.0 production management requirements.

Main features

For the User

- Modern streamlined glass surface touch screen that can be used with gloves.
- User-friendly HMI thanks to intuitive programming.
- All kinematics available:
 - For X, Xrelatives, Xslave, R, Rslave, and Z axes.
 - For Back and Front multiples gauges.
 - For bending aids.
- Highest precision of bending thanks to sophisticated algorithms.
- Tandem.
- DXF tools import.

- Group management for complex production.
- Preliminary / Final bend.
- Hemming management.
- Running under Windows 10 for multitasking and networking.
- Customizable Industry 4.0.

For the OEM:

- Set up with dedicated wizards (auto-tuning).
- Axis control through CANopen® and EtherCAT® with wide configuration capabilities.
- Interactions with the beam through specific cycles to manage hybrid and electric press brakes.

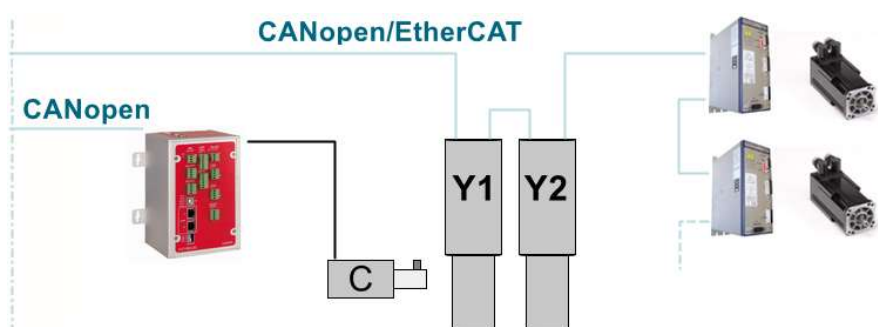
| Display | |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFT screen | 16 Mio color |
| Resolution | 1366x768 |
| Touch screen | Glass PCAP Multi-touch |
| Seal | IP44: Display side IP20: Back side |
| Handle | Included |
| Emergency button | Included |
| Operating conditions | Min. 5° Celsius, max. 40° Celsius. If the ambient temperature approaches or exceeds 40° Celsius, it is advisable to install special ventilation, or even air-conditioning. Relative humidity (10 to 85% non-condensing). |
| EC Directives | IEC 61131-2 |
| Weight | 7.2 Kg |

| | | |
|----------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System | | Windows 10 |
| Processor Unit | Model Graphic RAM Cooling | Intel® Atom x5-E3940 Quad-Core @1.6GHz Intel® HD Graphics 500 4 GB DDR3L RAM Passive Heat sink, FAN less |
| Mass Storage | Capacity | 40 GB CFAST memory card SATA 16 GB eMMC |
| Display Interface | | LVDS For the integrated display DVI single-link DVI-D interface for 1x extra display |
| Communication | | LAN 1x Gigabit Ethernet, RJ-45(10/100/1000) USB 4x USB (1x USB 3.1, 3x USB 2.0) 1x USB 2.0 (dedicated to local Touchscreen) COM 1x RS-232C (Data flow 115kbps) Wi-Fi USB compatible 4G-5G USB compatible |
| Power Supply (Numerical Control) | | +24V _{dc} 1.5A min (CN without I/O – X1 connector) |
| Power Supply (Digital I/Os) | | +24V _{dc} 4A min |
| RTC – Calendar Clock | | Battery Lithium CR2032 / 3V @225mA/h |
| I/O Processor | | ARM Cortex M7 series – STM32F765 @216MHz |
| Digital Input | | 6 4mA typ. according to IEC61131-2 type 1 & 3 Isolation 2kV Filtering – debouncing and deglitching (by step of 250µs) |
| Digital Output | | 4 0.5A typ. /0.7A max. according to IEC61131-2 type 3 Isolation 2kV Overvoltage and Short circuit protection Status – output in fault and no 24V IO power supply |
| Fieldbus Interface | | 2 CANopen 1Mbps CAN 2.0 A, RJ-45, CANopen Master/Slave 1 EtherCAT 100Mbps EtherCAT, RJ-45, Master Stack |

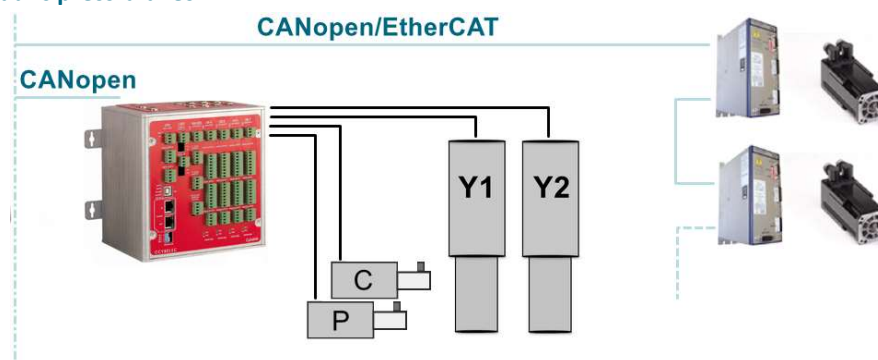
| Extras | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CANopen Compatible Drives | Baumüller, Delta Electronics, Infranor, INVT, Schneider, etc. |
| Ethercat Compatible Drives | Delta Electronics, Infranor, Kollmorgen Europe GmbH, OMRON, Panasonic, Yaskawa Electric, SanyoDenki Co., etc. |
| Safety Systems Compatibilities | Fiessler, LazerSafe, Nuova Elettronica, Pilz3000, etc. |
| Angle Measurement Systems | Protractors: IBR, Mitutoyo DMX, Mitutoyo U-wave Real time Systems: DataM LaserCheck, Lazer Safe IRIS+, Vision Component, etc. |
| Tool Locators | WILA Smart Toll Locator, PB Service, etc. |
| Languages | Chinese (simplified and traditional), Czech, Dutch, English (reference language), Finnish, French, German, Italian, Polish, Portuguese (Brazil and Portugal), Russian, Slovenian, Spanish, Swedish, Turkish. |

Typical machine configurations – CybTouch 15PS Win and CybMVA modules

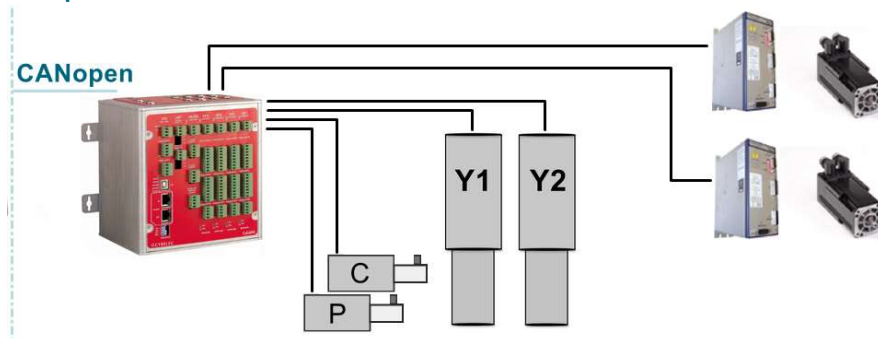
FULL DIGITAL axes configuration for hybrid and electric press brakes



DIGITAL electric axes configuration for hydraulic press brakes

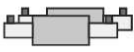

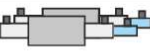






ANALOG electric axes configuration for hydraulic press brakes

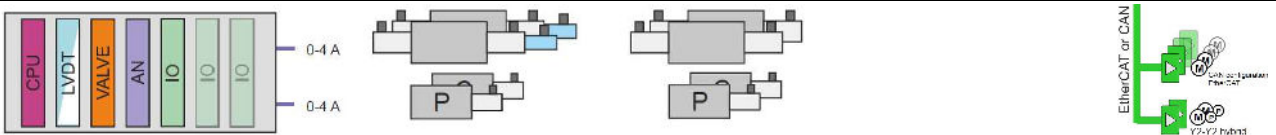


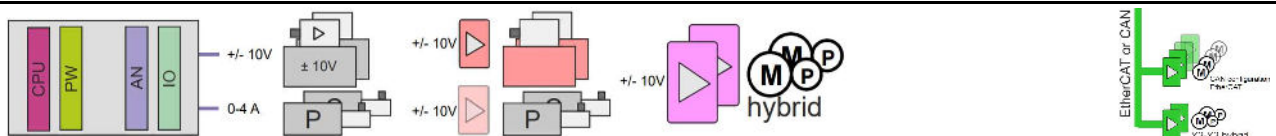
CybMVA modules configurations

For detailed technical characteristics, please refer to the CybMVA datasheet.


| | | | |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------|
|  | prop. valve without feedback |  | Pressure valve Crowning valve |
|  | prop. valve with feedback |  | MVP 100/A (valve amplifier) |
|  | prop. valve with integrated amp. ($\pm 10V$ analog command) |  | MSV 402/A (servo-valve amplifier) |
| | |  | servo-valve 50-300 mA |

For machines with digital axes (EtherCAT or CANopen)


| Y1, Y2 amplifier for proportional valves with and without feedback and I/O | | | | | | | | | |
|------------------------------------------------------------------------------------|-------|------------|-------------|-----------|------------|--------|--------|----------|------|
|  | | | | | | | | | |
| CybMVA | Y1-Y2 | Digital In | Digital Out | Analog In | Analog Out | Enc In | Y (4A) | P+C (4A) | LVDT |
| MVA-FD2 | Yes | 19 | 19 | 4 | 4 | 2 | 4 | 2 | 2 |

| Y1, Y2 ($\pm 10V$) with proportional valves with integrated Amplifier/Servo Valves/hybrid machines and I/O | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------|-------|------------|-------------|-----------|------------|--------|--------|----------|------|
|  | | | | | | | | | |
| CybMVA | Y1-Y2 | Digital In | Digital Out | Analog In | Analog Out | Enc In | Y (4A) | P+C (4A) | LVDT |
| MVA-AD2 | Yes | 19 | 19 | 4 | 4 | 2 | - | 2 | - |

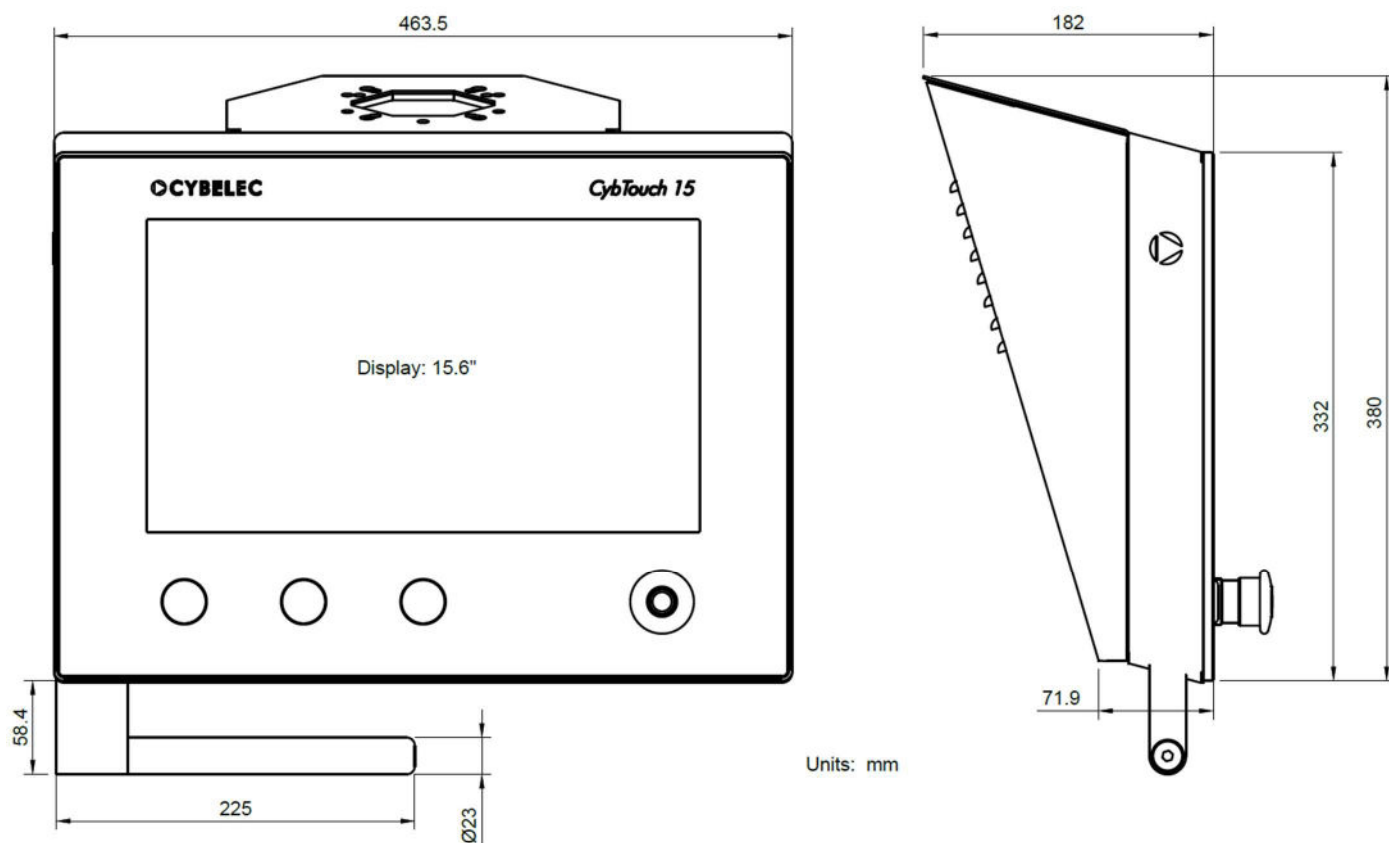
For machines with proportional valves and analog axes

| Y1, Y2 amplifier for proportional valves with and without feedback and 2-4 analog axes | | | | | | | | | |
|----------------------------------------------------------------------------------------|------------|------------|-------------|-----------|------------|--------|--------|----------|------|
|  | | | | | | | | | |
| CybMVA | Axes | Digital In | Digital Out | Analog In | Analog Out | Enc In | Y (4A) | P+C (4A) | LVDT |
| MVA-FA4 | (Y1-Y2 +2) | 11* | 11* | 4 | 6 | 4 | 4 | 2 | 2 |
| MVA-FA6 | (Y1-Y2 +4) | 19 | 19 | 4 | 8 | 6 | 4 | 2 | 2 |

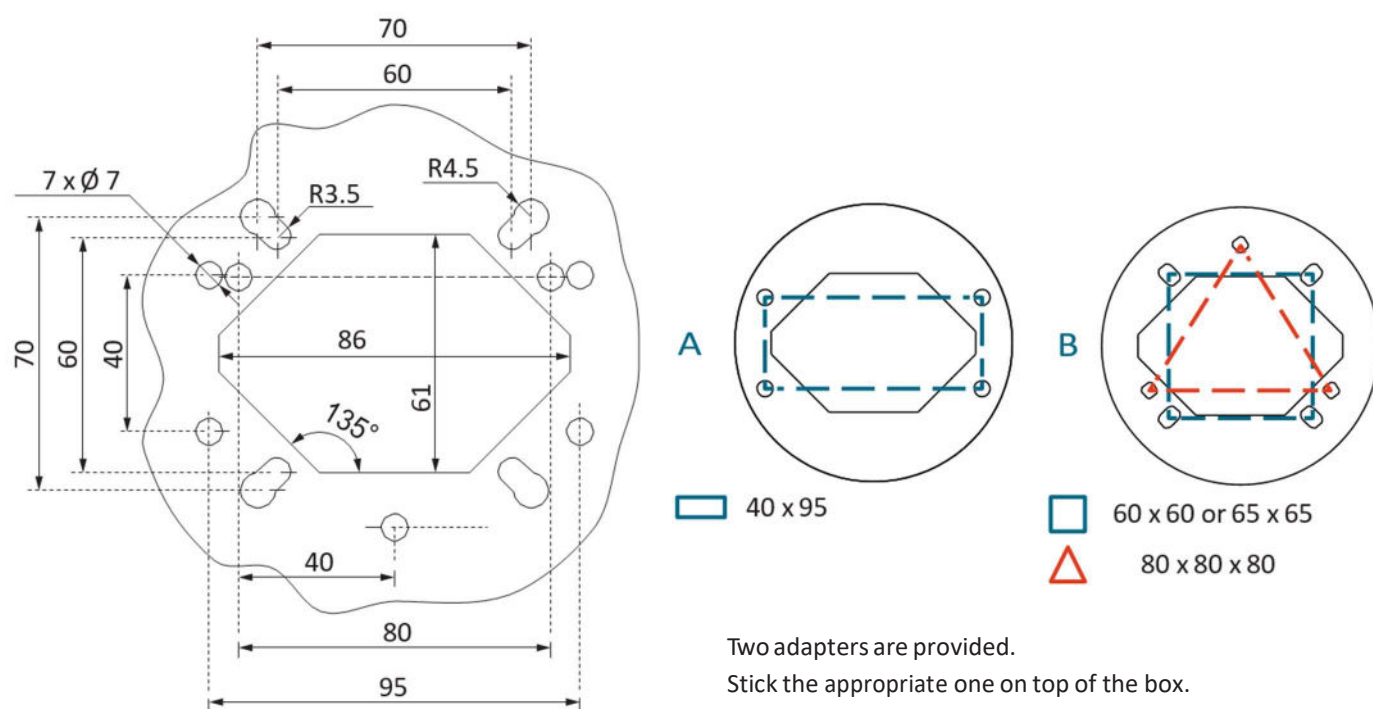
For machines with proportional valves with integrated amplifier / Servo-Valves / Hybrid and analog axes

| Y1, Y2 ($\pm 10V$) and 2-4 Analog axes | | | | | | | | | |
|--------------------------------------------------------------------------------------|------------|------------|-------------|-----------|------------|--------|--------|----------|------|
|  | | | | | | | | | |
| CybMVA | Axes | Digital In | Digital Out | Analog In | Analog Out | Enc In | Y (4A) | P+C (4A) | LVDT |
| MVA-AA4 | (Y1-Y2 +2) | 11* | 11* | 4 | 6 | 4 | - | 2 | - |
| MVA-AA6 | (Y1-Y2 +4) | 19 | 19 | 4 | 8 | 6 | - | 2 | - |

Dimensions



Attachment dimensions



Panel version



Integrating opening dimensions



Ordering information

CybTouch 15 PS Win

| | |
|---------------|---------------------------------------------------------------|
| CBT-15*PS-W/B | T-screen 15", 4 to 6 axes, PS-2D, Windows, housing |
| CBT-15*PS-W/P | T-screen 15", 4 to 6 axes, PS-2D, Windows, panel |
| | All controls come with RJ45 wire 7.5m (SFTP CAT 5E) included. |

Accessories

| | |
|--------------|-------------------------------------------|
| S-MSV-402/A1 | Servo valve amplifier +/-350mA or +/-50mA |
| UPS-DP1 | UPS system with battery, 24V DC, 3A |

Options

| | |
|-----------|-------------------------------------------------------------|
| OFT-AX | Additional axis license |
| OFT-TM | Tandem management |
| OFT-BA | Bending aids and sheet support (require axes licenses) |
| OFT-SS | Sheet support (require axes licenses) |
| OFT-ST | Statistics |
| OFT-I4M | Industry 4.0, statistics, status (MES), communication (MES) |
| OFT-XC | X Axis calibration (One license per axis) |
| OPT-160GB | Extended CFast 160GB (replacing the standard CFast) |
| | |
| Included | Protractor Angle |
| | User cycle encrypted |

PC offline software

| | |
|---------------|---------------------------------------------------|
| OFT-VST-2 | PC offline software VisiTouch (2D) |
| OFT-VST-MX | PC offline software VisiTouch MX |
| OFT-VST-MXIMP | PC offline software VisiTouch MX including Import |
| OFT-EXP | DXF export license |