

## Numerical control

## VisiTouch 19 VisiTouch 19 MX

VisiTouch 19 is an outstanding numerical control for press-brakes composed of two main hardware elements:

- A programming console with 19" modern streamlined glass surface touch screen, generally attached to a swiveling arm.
- A Numerical Control in an all-in-one housing, placed inside the electrical cabinet, with analog and digital I/Os, sufficient to control 4 axes, typically Y1, Y2, X and R. For more complex machines, additional axes and I/O can be added via two CANopen® or one EtherCAT® field buses.



VisiTouch 19 is available in two versions:

- VisiTouch 19 with graphical profile drawing (Touch Profile) and precise 2D program creation.
- VisiTouch 19 MX with 3D visualization, 3D import and full automatic solutions.

In addition to all the features available to control simple as well most sophisticated press brakes, VisiTouch offers also an open system allowing customization.

## Main CNC and HMI features

### Main features

Based on CybTouch software with a very user friendly HMI thanks intuitive programming and an ease to set up with dedicated wizards (auto-tuning).

All kinematics available for X, Xrelatives, Xslave, R, Rslave, and Z axes. For Back and Front multiples gauges. For bending aids.

Axis control through CANOpen with wide configuration capabilities.

Open system through customizable «User Cycles» and plug-in software modules.

Customizable User buttons for the machine operator.

### High-end features

Full 3D visualisation and simulation.

Parts management with DXF flat pattern and 3D format files import.

Automatic solutions of complex parts: automatic bend sequencing, gauging, toolig and auto segmentation.

Running under Windows 7 for multitasking and networking.

All bending aid kinematics available. Back and Front multiples sets.

Angle measurement.

### Software open features

PLC functionalities.

Interactions with the beam cycle.

Custom auxiliary functions. integration based on «UserCycles» for real time part and on plug-in for HMI part.

Custom User buttons.

## Technical Characteristics - VisiTouch 19 programming Console

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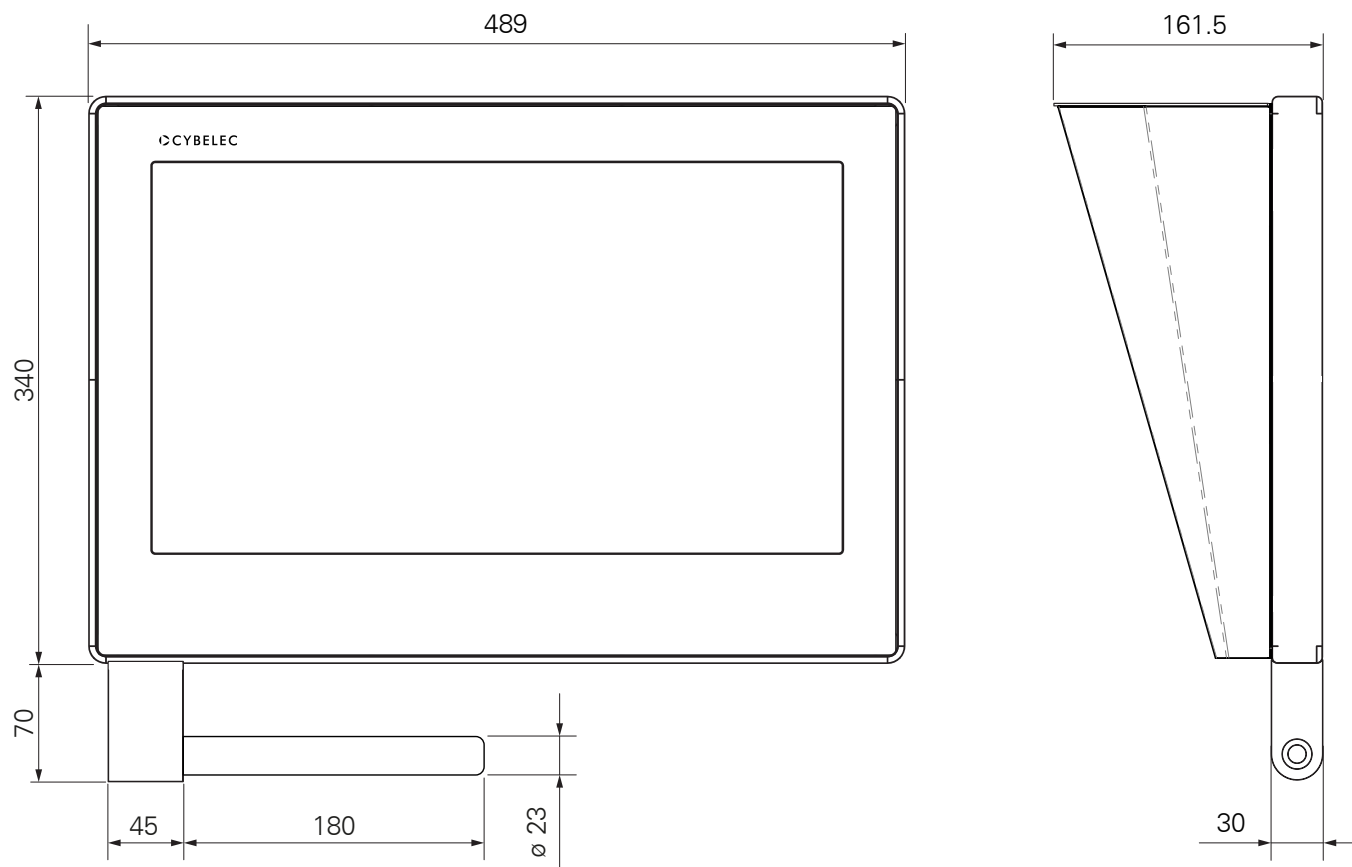
TFT screen	18.5" wide TFT 16:9
Resolution	1366 x 768, 24 bits (WXGA)
Touch screen	Multi-touch 10 fingers
USB ports	1 x USB 2.0, 0.5 A current capability each
Power Supply	+24V <sub>DC</sub> @ 0.48A max.
Seal	IP65 - front side only
Handle	Included
Operating conditions	Min. 5° Celsius, max. 40° Celsius. 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).
Weight	
Languages	Chinese (simplified and traditional), Croatian, Czech, Danish, English (reference language), French, German, Hungarian, Italian, Polish, Russian, Slovenian, Spanish, Turkish.

## Technical Characteristics - CybCNC3 controls

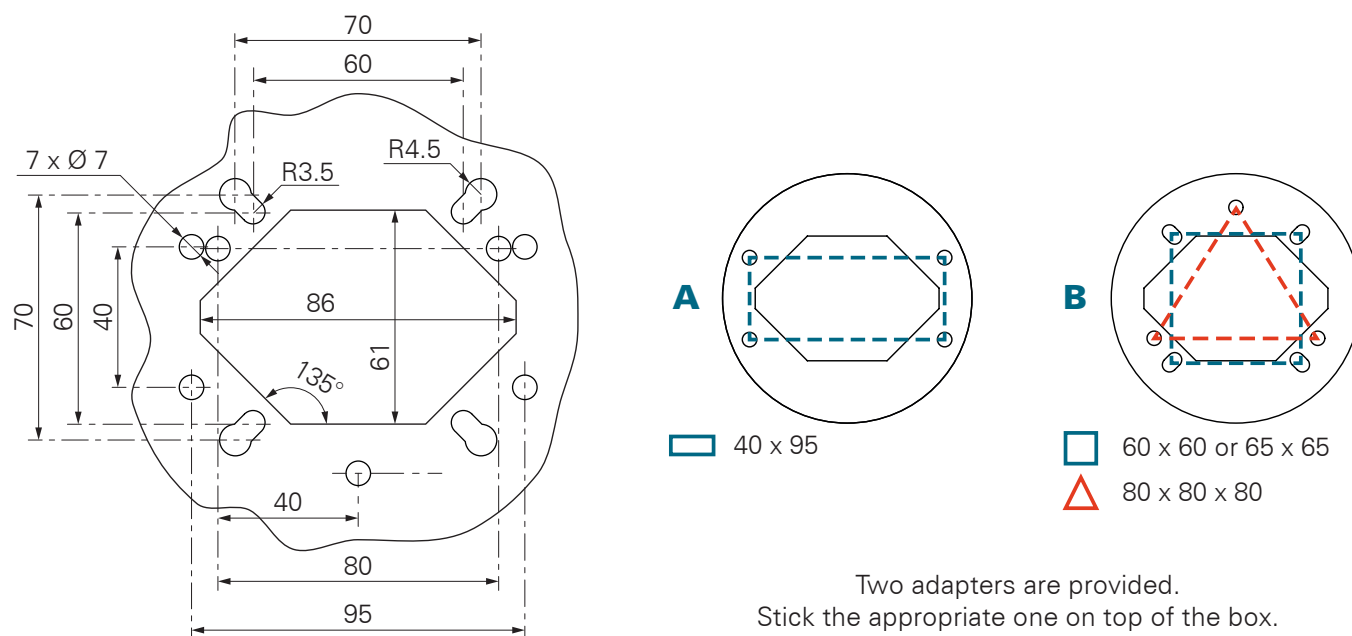
		CyBCNC3 2D	CyBCNC3 MX (3D)
Processor Unit	Model	AMD G-Fusion T40E Dual core @1.0 GHz	Intel Atom x7-E3950 Quad core @1.6GHz
	Graphic	ATI Radeon HD series built-in	Intel Gen 9LP Graphics
	RAM	4 GB DDR3 RAM	8 GB DDR3 RAM
	Cooling	Passive Heat sink, FAN less	Passive Heat sink, FAN less
Mass Storage	Capacity	32 GB CFAST memory card	32 GB CFAST memory card
	Interface	SATA	SATA
Display Interface		DVI	Up to 1920x1200, single-link DVI-D interface
Communication Port HMI non Realtime	LAN	1 Gigabit Ethernet, RJ-45 (10/100/1000)	
	USB	4 USB 2.0 port	
Operating temperature		0 - 40°C	
Power Supply (Numerical Control)		+24V <sub>DC</sub>	@0.4A typ.(CN without I/O – X1 connector)
RTC – Calendar Clock		Battery	Lithium CR2032 / 3V @225mA/h
I/O Processor		ARM Cortex M7 series	
Digital Input		32	4mA typ. according to IEC61131-2 type 1 & 3 Isolation 2kV Filtering – debouncing and deglitching (by step of 250µs)
Digital Output		16 8	0.5A typ. /0.7A max. according to IEC61131-2 type 3 3A typ. /5A max. according to IEC61131-2 type 3 Isolation 2kV Overvoltage and Short circuit protection Status – output in fault and no 24V IO power supply
Analog Input		4	Unifilar or differential Resolution 0-10V 12-bit (11-bit + sign)
Analog Output		6	Unifilar Resolution ±10V 12-bit (11-bit + sign), output at 0Vin fault state Resistive load 1kΩ min. / capacitive load 2.2nF max
Analog Voltage Reference		1	Unifilar Voltage 10.000 V ±3mV @ 50mA max.
Encoder Interface		4	5V or 24V, unifilar type PNP/NPN or differential Frequency 500 kHz (signal A/B) 5 MHz (signal A/ $\bar{A}$ /B/ $\bar{B}$ ) Aux. Power – output 5V @ 1.0A (typically 4x 250mA)
Power Supply (Digital Inputs/Outputs)		+24V <sub>DC</sub> @ 20A max.	
Serial Communication		1	RS-232C/RS-485, D-sub 9-pin male Data flow 115kbps
Fieldbus Interface		2 CAN 1 EtherCAT	1Mbps CAN 2.0 A, RJ-45, CANopen Master 100Mbps EtherCAT, RJ-45, Master System

## Dimensions

### Console version

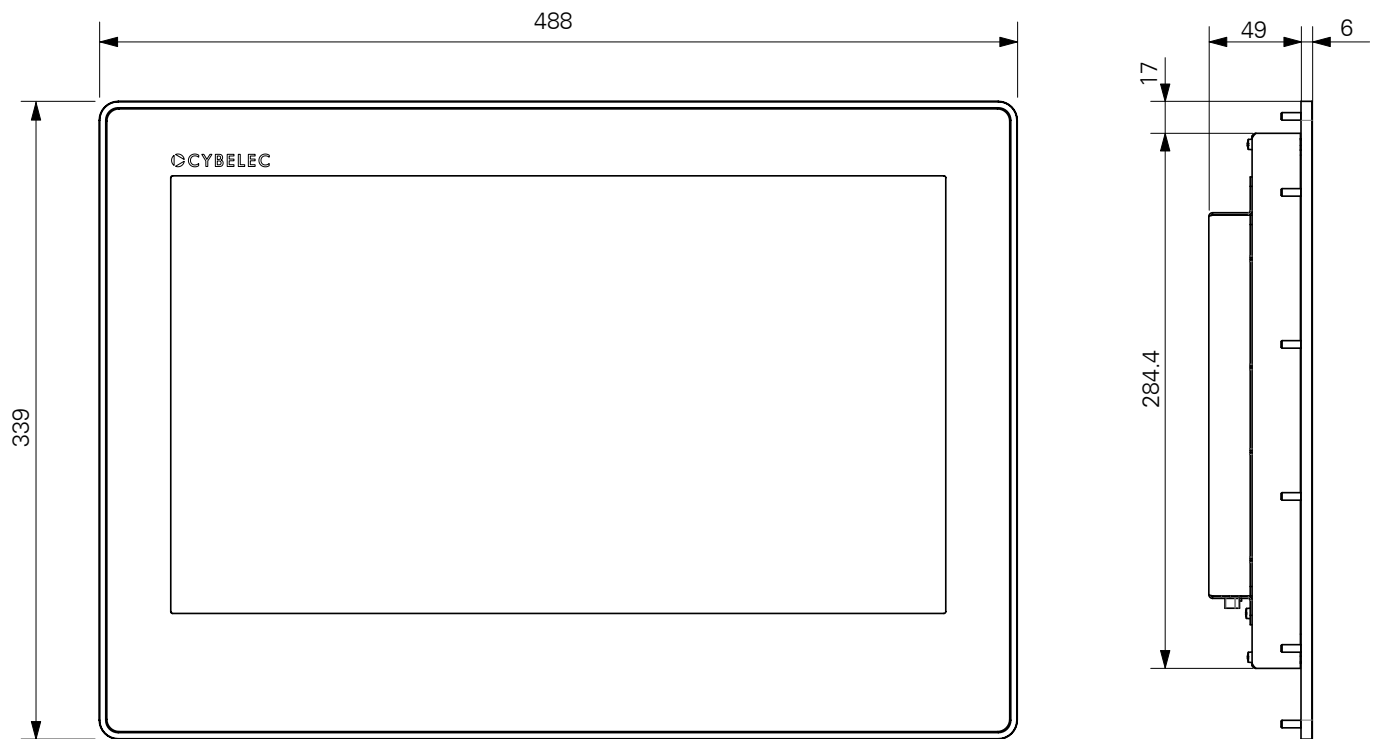


### Attachment dimensions

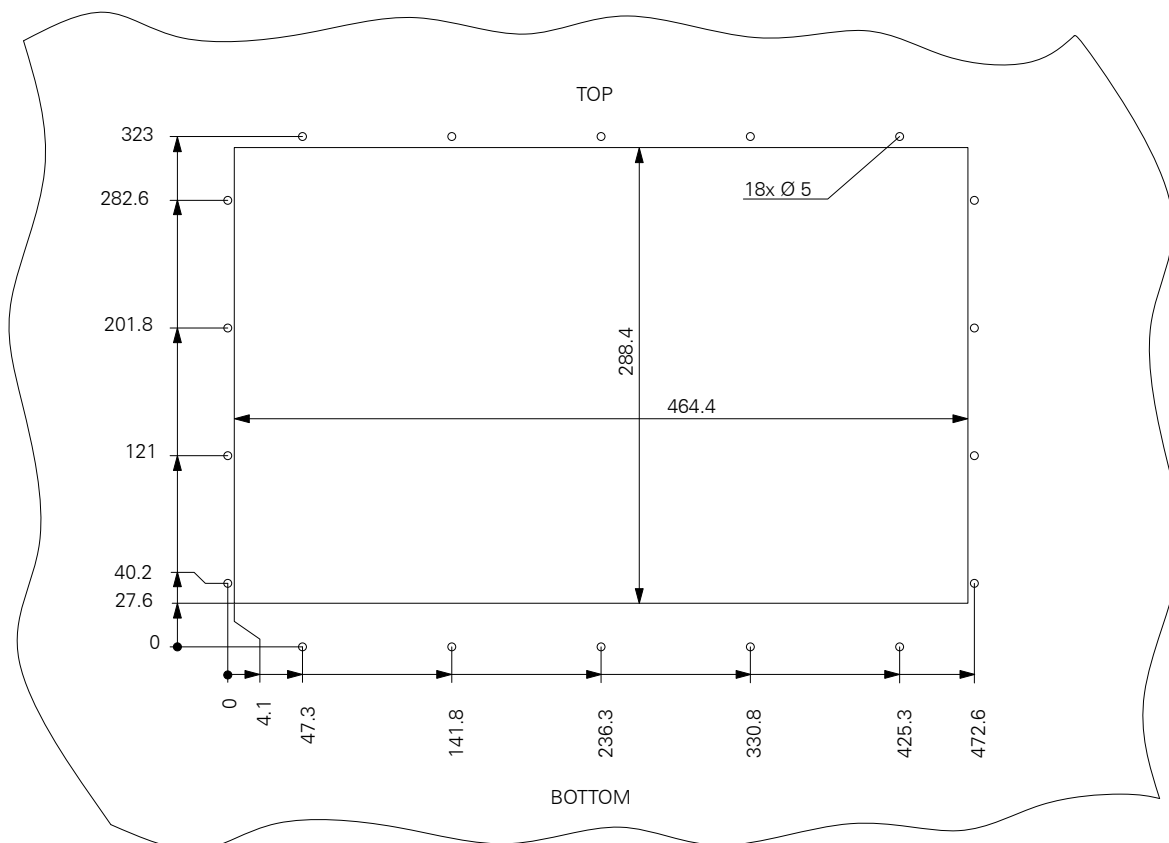


## Dimensions

### Panel version

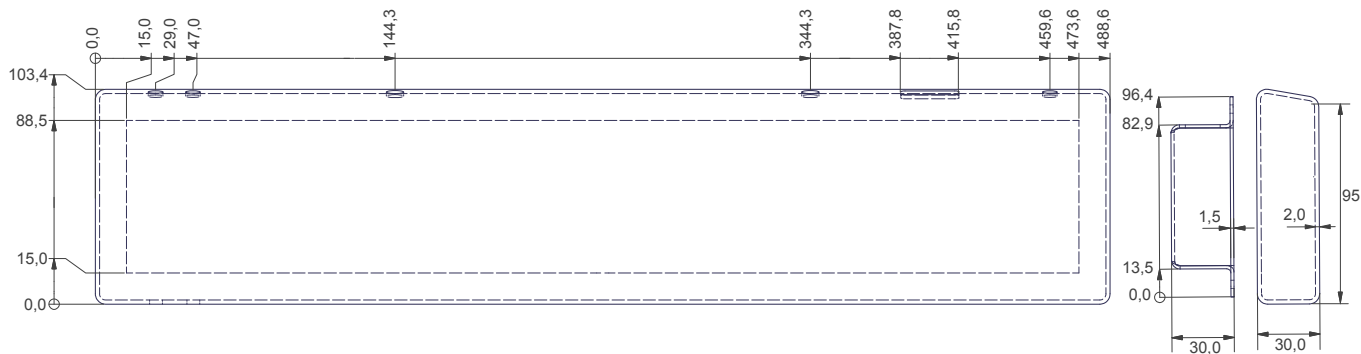


### Integrating opening dimensions

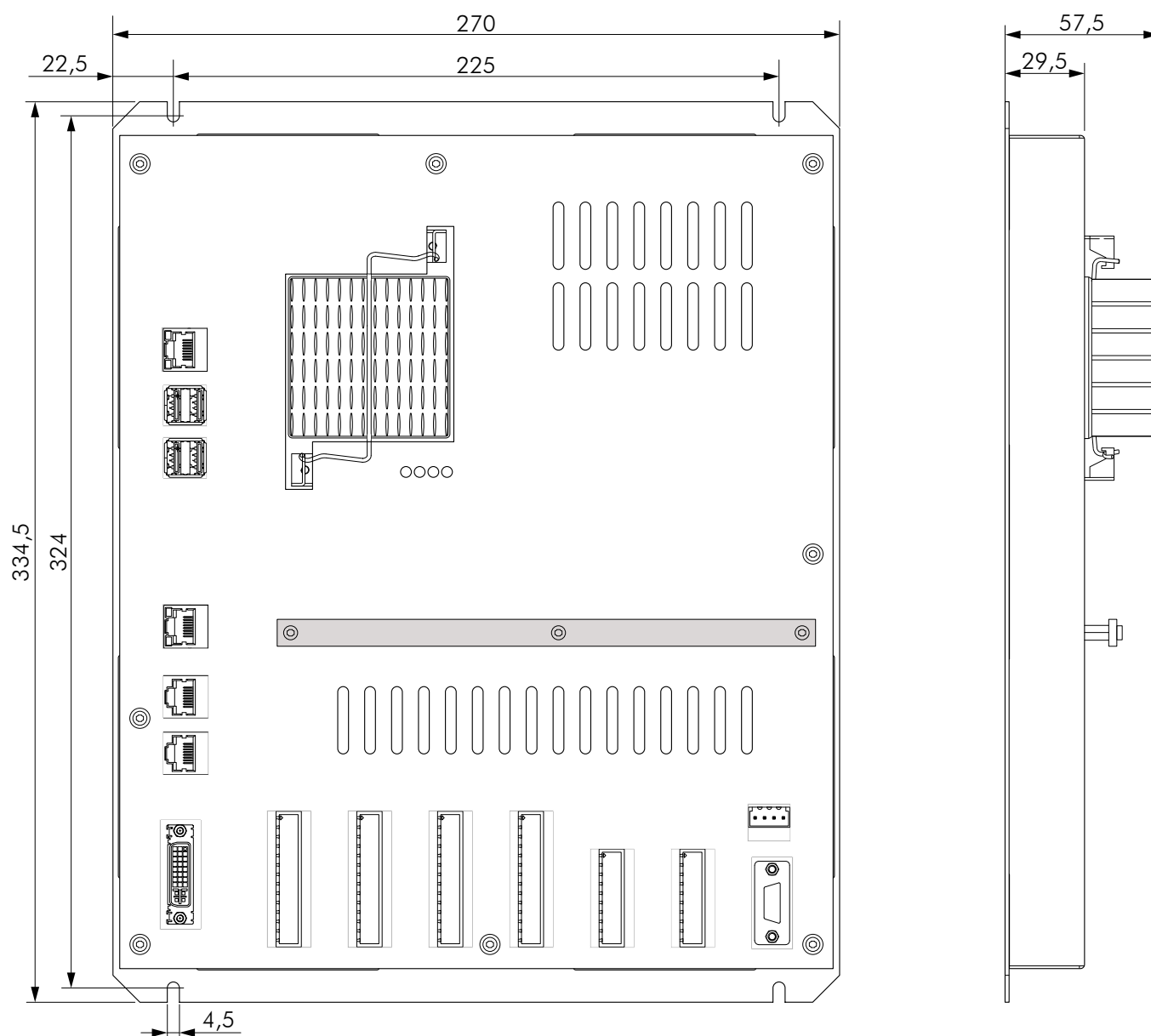


## Dimensions

### Auxiliary box



### CybCNC3 controls



## VisiTouch ordering information

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### Consoles VisiTouch 19

VST-19	Console touchscreen 19"
VST-19-075	Console touchscreen 19" with DVI and USB wires 7.5m
VST-19-100	Console touchscreen 19" with DVI and USB wires 10m
S-OPT-BTAUX-S/E	Auxiliary box
VST-19/P	Panel touchscreen 19"
VST-19/P-075	Panel touchscreen 19" with DVI and USB wires 7.5m
VST-19/P-100	Panel touchscreen 19" with DVI and USB wires 10m

### CybCNC3 controls

CNC-34PS24-2	4 axes (Y1, Y2, 2 axes), 32I/24O, PS-2D
CNC-34PS24-MX	4 axes (Y1, Y2, 2 axes), 32I/24O, PS-MX (3D)
CNC-34PS24-MXIMP	4 axes (Y1, Y2, 2 axes), 32I/24O, PS-MX and Import

### Software options

OFT-A3	Additional axis license
OFT-E5	Additional user IO license; 4DI/4DO/1AI/1AO
OFT-E2E3	Bending aids and sheet support (require axes licenses)
OFT-E3	Sheet support (require axes licenses)
OFT-E4	Angle measurement
OFT-H5	Tandem management
OFT-IMP	MX Import license, DXF flat, IGES, STEP, SAT, X_T

### 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

## VisiTouch ordering information

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### Valve amplifier modules

#### Analog modules

S-CAH-VA6	Y1, Y2, with feedback
S-MVP-100/A	Pressure valve amplifier
S-MSV-402/A	Servo valve amplifier +/-350mA or +/-50mA

#### CANopen modules (require axes licenses)

MVA-0	Y1, Y2, without feedback
MVA-F0	Y1, Y2, with feedback
MVA-F0	Y1, Y2, with feedback, 2 analog axes
MVA-F2	Y1, Y2, with feedback, 4 analog axes
MVA-F4	Y1, Y2, with feedback, 6 analog axes
MVA-F8	Y1, Y2, with feedback, 8 analog axes
MVA-A0	Y1, Y2, servo-valve or with integrated amplifier
MVA-A2	Y1, Y2, servo-valve or with integrated ampl., 2 analog axes
MVA-A4	Y1, Y2, servo-valve or with integrated ampl., 4 analog axes
MVA-A6	Y1, Y2, servo-valve or with integrated ampl., 6 analog axes
MVA-A8	Y1, Y2, servo-valve or with integrated ampl., 8 analog axes