DATA SHEET

INFRANOR GROUP COMPANY

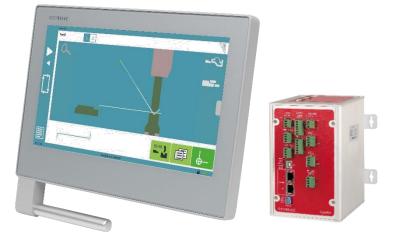
CYBELEC[®]

Numerical control

VisiPac

VisiPac is an outstanding numerical control for press brakes with a new solution all-in-one:

- Semi-compact control with a 19" modern streamlined glass surface full touch-screen and the CNC board mounted on the back of the screen.
- Full digital up to 24+2 electric axes with two CANopen[®] and one EtherCAT[®] field buses with wide configuration capabilities.
- Interface to all kind of hydraulic systems, I/O and analogue axes thanks to the CybMVA modules placed inside the cabinets.



VisiPac is available with a new quad-core processor unit to make the experience with 2D graphic profile drawing (Touch Profile) and 3D viewer unique.

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

Main features

For the User

19" modern streamlined glass surface touch screen that can be used with gloves.

User-friendly HMI thanks to intuitive programming.

2D graphic profile and 3D viewer.

Automatic bending sequence calculation.

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

Tandem.

Tools import.

production.

Preliminary / Final bend.

Hemming management.

Running under Windows 10 for multitasking and networking.

Group management for complex

Angle measurement.

Barcode reader.

Customizable Industry 4.0.

For the OEM:

Set up with dedicated wizards (auto-tuning).

Axis control through CANopen® and EtherCAT® with wide configuration capabilities.

Customizable User buttons for the machine operator.

Interactions with the beam cycle.

Plug-in for HMI part.

Open system for customization. Special crowning Hybrid hydraulic machine

Integrated robot control, synchronization with press brake sequences (own robot CNC not necessary)



Display	
TFT screen	18.5" wide TFT 16:9
Resolution	1366 x 768, 24 bits (WXGA)
Touch screen	Glass PCAP Multi-touch 10 fingers
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).
EC Directives	IEC 61131-2

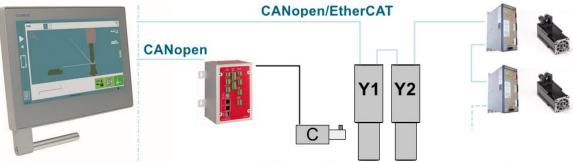
CNC Board SBC-310)A						
Operating System		Windows 10	Windows 10				
Processor Unit	Model	Intel® Atom	x5-E3940 Quad-Core @1.6GHz				
	Graphic	Intol® UD Cr	rephies 500				
	RAM	Intel® HD Gr 4 GB DDR RA	•				
	Cooling		sink, FAN less				
Mass Storage	Capacity		T memory card SATA				
Ū	. ,	16 GB eMM0	,				
Display Interface		DVI	Up to 1920x1600, single-link DVI-D interface				
		LVDS	Up to 1920x1200, dual channel LVDS mode 18bpp or 24bpp				
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 Touch-Screen)				
		COM	1x RS-232C/RS-485 (D-sub 9-pin male, Data flow 115kbps)				
		Wi-Fi	USB compatible				
		4G-5G	USB compatible				
Operating temperature		0 - 40°C					
Power Supply (Numeric	al Control)	+24V _{dc}	@0.8A typ.(CN without I/O – X1 connector)				
Power Supply (Digital I/	Os)	+24Vdc @ 2	0A max.				
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 250 μ s)				
Digital Output		4	0.5A typ. /0.7A max. according to IEC61131-2 type 3				
			Isolation 2kV				
			Overvoltage and Short circuit protection				
		0.041	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				



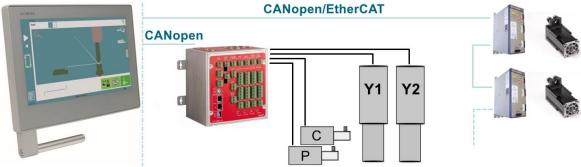
Extras	
CANopen Compatible Drives	Baumüller, Delta Electronics, Infranor, INVT, Schneider, etc.
Ethercat Compatible Drives	Delta Electronics, Infranor, Kollmorgen Europe Gmbh, OMRON, Panasonic, Yaskawa Electric, SanyoDenki Co., etc.
Safety Systems Compatibilities	Fiessler, LazerSafe, Nuova Elettronica, Pilz, etc.
Angle Measurement Systems	Protractors: IBR, Mitutoyo DMX, Mitutoyo U-wave Real time Systems: DataM LaserCheck, Lazer Safe IRIS+, Wenglor, etc.
Angle Measurement Systems Tool Locators	

Typical machine configurations – VisiPac controls and CybMVA modules

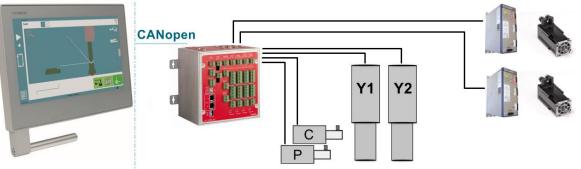
FULL DIGITAL axes configuration for hybrid and electric press brakes



DIGITAL electric axes configuration for hydraulic press brakes

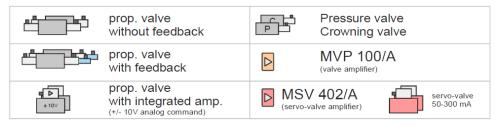


ANALOG electric axes configuration for hydraulic press brakes



CybMVA modules configurations

For detailed technical characteristic, please refer to the CybMVA datasheet. For machines with more than 4 axes, any additional electric axes on the CybMVA modules require an additional axis license on the VisiPac.



For machines with digital axes

Y1, Y2 amp	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 (+/-	Y1, Y2 (+/-10V) with proportional valves with integrated Amplifier/Servo Valves/hybrid machines and I/O							es and I/O	

	/			0		-			-
CPU	Z 0 -+/- 10V - 0-4 A	± 10V	+/- 10V	+/- 10V	hybrid	9		EtherCAT or CAN	CAN configuration EtherCAT
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 2/4/6 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
MVA-FA8	(Y1-Y2 +6)	27	27	4	10	8	4	2	2

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

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Y1.	Y2	(+/-	10V)	and	2/4/6	Analog	axes

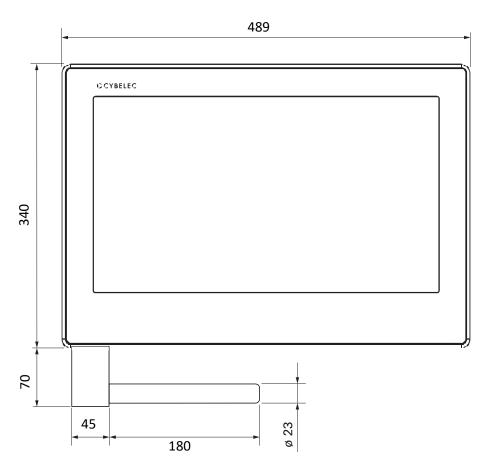
•••••••••									
CybMVA	Axes	Digital In	Digital Out	Analog In	Analog Out	Enc In	Y (4A)	P+C (4A)	LVDT
MVA-AA4	(Y1-Y2 +2)	11*	11*	4	6	4	-	2	-
MVA-AA6	(Y1-Y2 +4)	19	19	4	8	6	-	2	-
MVA-AA8	(Y1-Y2 +6)	27	27	4	10	8	-	2	-

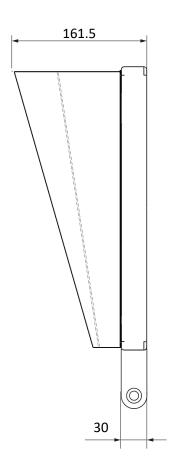
*Caution! Limited numbers Input/Output available



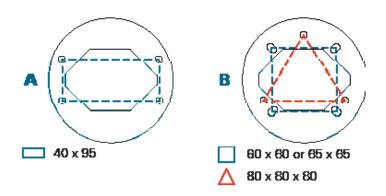
Dimensions

Housing Version





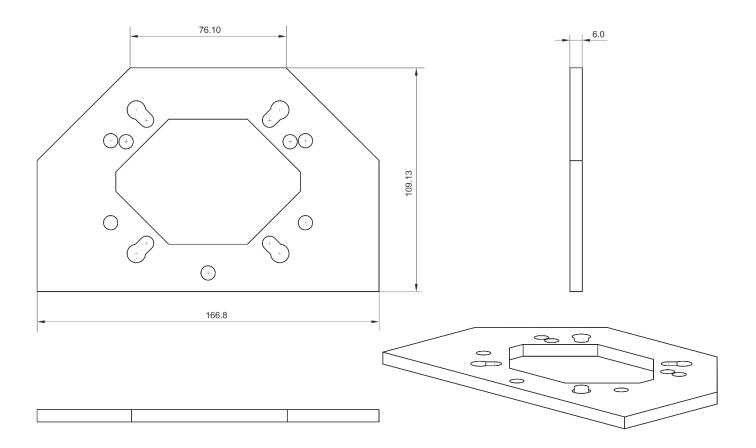
Attachment dimensions



Two adapters are provided. Stick the appropriate one on top of the box.

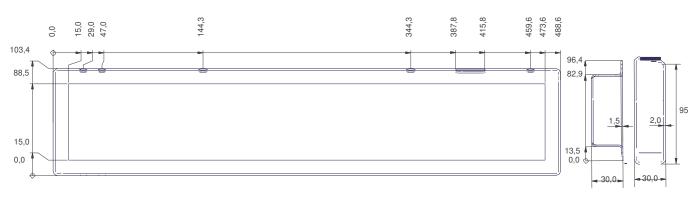


ALU spacer for VT and VP fixing dimensions



Dimensions

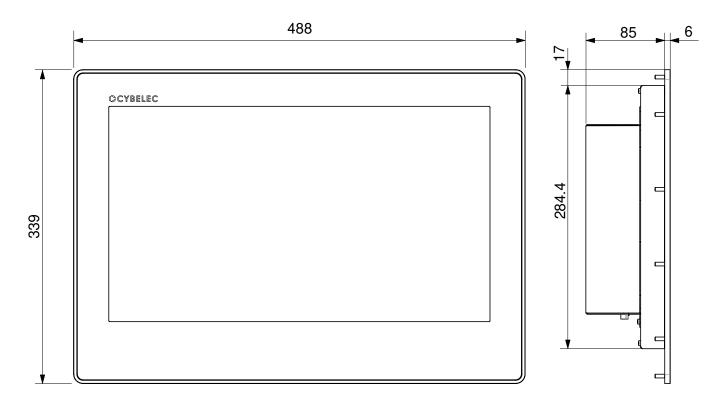
Auxiliary box



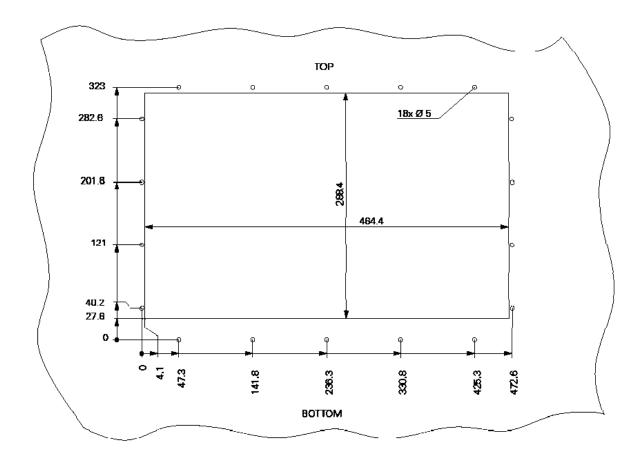


Dimensions

Panel version



Integrating opening dimensions





VisiPac controls

VSP-84PS-2	VisiPac, 4 axes (Y1, Y2, 2 axes), PS-2D with MX viewer With RJ45 wire 10m (SFTP CAT 5E) included
VSP-84PS-2/P	VisiPac Panel, 4 axes (Y1, Y2, 2 axes), PS-2D with MX viewer With RJ45 wire 10m (SFTP CAT 5E) included
Accessories	
S-OPT-BTAUX-S/E	Auxiliary box
UPS-DP1	UPS system with battery, 24V DC, 3A
M-300-0013B	ALU spacer for VT and VP fixing

Machine 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-AM1	Automatic angle measurement (one station)
OFT-AM2	Automatic angle measurement (two stations)
Included	Protractor Angle
OFT-AT	Automatic thickness measurement
OFT-FS	Force sensor management
OFT-SC	Special crowning cycle (user cycle file added by customer)
OFT-TL	Tool locator
OFT-SB	Plugin for communication with Lazer Safe Smart Brackets
OFT-RCG	Plugin for comm. with arm robot (incl. OFT-BA and OFT-SS)
OFT-RCA	Robot control, Cartesian XYZAC (includes 5 axes licenses)
OFT-RAS	STEP Arm Robots control interface

Software options

OFT-BC	Plugin for communication with Barcode reader, generic
OFT-ST	Statistics
OFT-I4M	Industry 4.0, statistics, status (MES), communication (MES)
OFT-VA	AutoPOL CAM Viewer
OFT-PG	Authorization for plugin installed by customer
OFT-IMP	MX Import license, DXF flat, SW, 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



