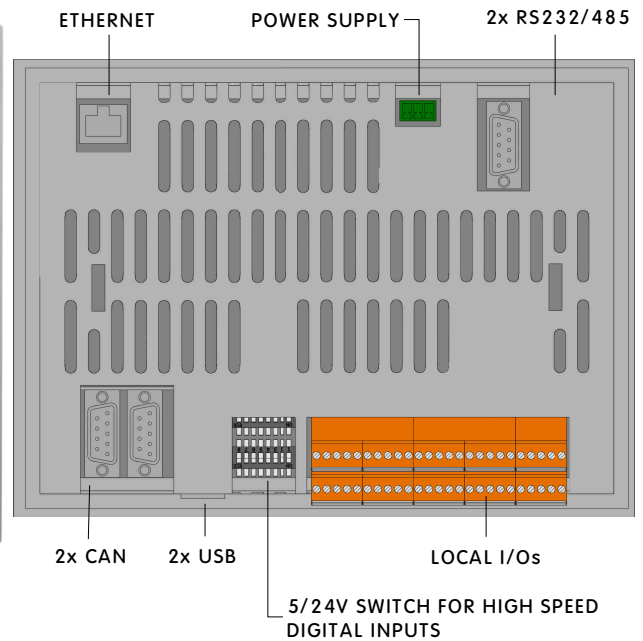


Touch screen CNC with PLC functions and on board I/Os

EVO

Available in twelve different configurations to satisfy every need

Technical Features



as big as it needs to be

Everything needed to control the entire machine fits into a single unit the size of an HMI: we've integrated a powerful PLC, a positioner with interpolation capabilities, I/O peripherals and touchscreen operator interface in one compact package

no compromises

At the same price of an operator interface, Sirius offers even a PLC, a motion control and on-board I/Os

ready to work

Long cable runs on the machine and control panel are a thing of the past: everything's right there in the package. And if the system needs expanding, intelligent SIO peripherals are designed for fast, functional installation

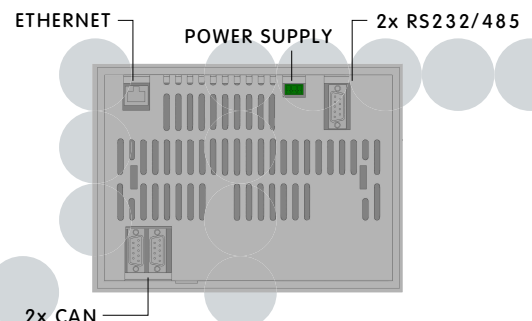
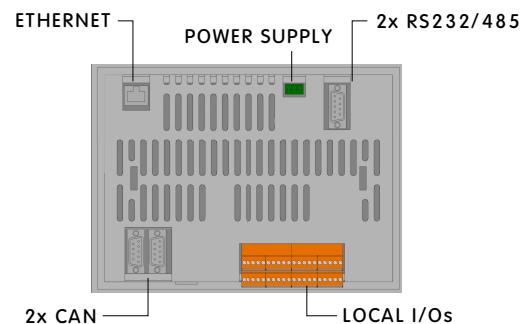
the black box

The machine itself provides all the information needed to pinpoint any problems: evo performs a complete diagnostic analysis and sends it directly to your desk or cell phone

no sooner said than done

Thanks to intelligent SIO peripherals, Linux RTAI system and programmable FPGA, you can make the machine do anything you ask it to do, keeping the same programming logic and the same architecture

EVO is available in three different models with four LCD sizes

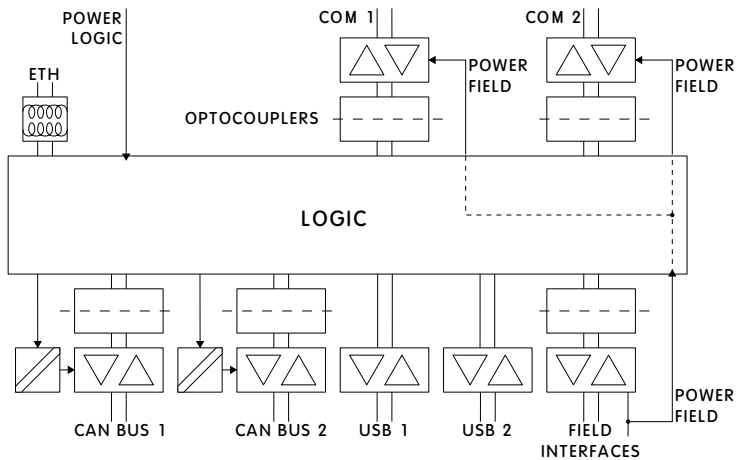


REALTIME COMPUTING

ELO

PLC+HMI+CNC+ONBOARD I/O

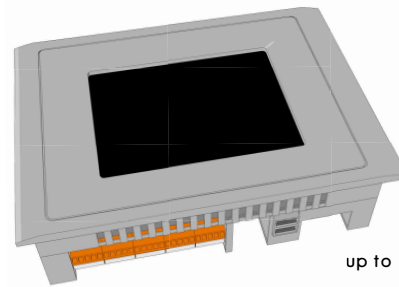
Power Level Isolation



Integrated Oscilloscope
2k memory
all-variables

FPGA
16 IN + 8 OUT
customizable

Motion Control
point to point
electronic cam
electric axis
up to 24 axes interpolated
cubic interpolation
joint acceleration control



HMI-PLC,CNC and I/O in a single compact unit

Linux RT-based o.s. guaranteeing realtime performance

High-brightness touchscreen, available from 5.7" to 12"

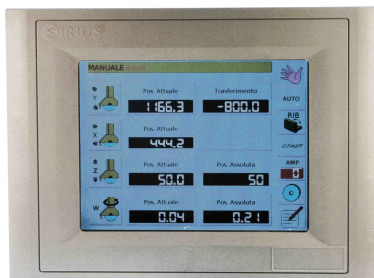
Powerfull integrated oscilloscope for axis calibration or setup

CANopen, USB and Ethernet for flexible communications

Ladder, FB and 'C' language programming capability

EMC²* capable

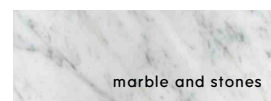
Mechanical Features



Mechanical dimensions (millimeters)

	5,7"	6.4"	10"	12"
212	212	313	356	
156	156	210	265	
60	60	80	80	
Weight (Grams)				
670	700	1400	1900	
Faceplate IP Protection				
IP65	IP65	IP65	IP65	
Rear IP Protection				
IP20	IP20	IP20	IP20	

Application areas



Technical Specs

number of high speed PNP inputs	16
nominal voltage	24VDC e 5VDC (select via internal dip-switch)
'0' signal voltage	-3...3V (-0.5...1V)
'1' signal voltage	15...30V (2...5V)
max frequency	200kHz
input current	10mA typ.
application	standard input, monodirectional counter, quadrature encoder
number of analog inputs	up to 4 differential or 8 single ended (software selectable)
input voltage range	0..10V
resolution	14/ 16 bits
gain	1, 4, 50, 200 (software selectable)
filter	no
conversion time	1mS
number of analog outputs	8
output voltage range	-10...+10V
resolution	12/16 bits
number of high speed PNP outputs	8
max current	500mA
short circuit protection	yes
application	PWM up to 10kHz

These informations refer to the fully equipped version.

controller	MPC5200 (PowerPC)
RT clock	battery-buffered
display type	STN / TFT 256 / 64k colors
touch screen	analog resistive
screen resolution	5,7" 6.4" 10" 12"
	320x200 640x480 640x480 800x600
operating system	Linux RTAI / Xenomai based
weight	600-1900gr
isolation	500V rms
weight	500gr
operating/storage temp.	0°C...+55°C/-25°C...+85°C
relative humidity	95%, no condensation
power level separation	CANbus-CPU field-CPU serial-CPU ethernet-CPU
power supply	24V (+/- 15%)
current CPU consumption	1A
protection class	IP20
vibration/shock resistance	EN 60068-2-6 / EN 60068-2-27/ 29
EMC/ESD resistance	EN 61000-6-2 (EN 50082) EN 61000-6-4 (EN 50081)
PDO configuration	16bits
external connections	2x RS232 / 485 2x USB 2 1x Ethernet 2x CAN OPEN

*EMC2 is the most versatile open source numeric control