



InfraCNC 3, general-purpose numerical control

InfraCNC 3 is a general-purpose 4 axes numerical control with a standard set of on-board analog and digital I/Os. It offers fully functional interfaces for two CANopen® and one EtherCAT® field buses. Additional axes (up to 64) and I/O devices can be added via dedicated on-board field bus controllers.

Main technical features

Processor unit

- Core: AMD G-Fusion T40E Dual Core@1.0GHz
- Grafic: ATI Radeon HD series built-in
- -RAM: 2G bytes DDR3 SDRAM
- Cooling: passive heat sink, FAN less

Mass storage

- 16GB CFAST memory card
- -32 64GB industrial SSD 2.5" disk drive
- -Up to 320GB Solid State disk in option

Display interface

Up to 1920x1600, single-link DVI-D interface

Communication ports

- 1x LAN Gigabit Ethernet, RJ-45 (10/100/1000)
- -4x USB 2.0

Fieldbuses interfaces

- 2x 1Mbps CAN 2.0 A, RJ-45, CANopen® Master
- 1x 100Mbps EtherCAT®, RJ-45, Master

I/O processor

 ARM Cortex M3 series for I/O & fieldbuses control

Digital inputs

- -32x @4mA typ.
- -Isolation: 2kV
- Filtering: debouncing & deglitching (by step of 250µs)

Digital outputs

- -16x @0.5A typ. /0.7A max.
- -8x @3A typ. /5A max.
- -Isolation: 2kV
- Protection: overvoltage & short-circuit

PWM outputs

- -2x @10mA typ. (NPN)
- Isolation: 2kV
- -Voltage: +3.0 .. +30.0V
- Resolution: 16-bit
- Period: 1kHz typ. (5kHz max.)

Analog inputs

- -4x unifilar or differential 0-10V or +/-10V
- Resolution: 12-bit

Analog outputs

- -6x unifilar 0-10V or +/-10V
- Resolution: 12-bit

Voltage reference

- 1x unifilar
- 10.000V +/-3mV @50mA max.

Encoder interfaces

- -4x 5V or 24V, unifilar type PNP/NPN or differential)
- –500kHz (unifilar), 5MHz (differential)
- -Encoder supply 5V 1A

Serial communication

- 1x RS-232/RS-485, D-sub 9 male
- Baudrate 115kbps

Power supply

- -Logic: 24Vdc @0.4A typ.
- -I/O: 24Vdc @20A max.

Softwares, tools & accessories

FASTware® software platform

- FwSysDev: hardware definition, PLC programming
- FwCNCComponents: oriented object package for building motion control application

Embedded tools

- FwAxesCfg: axes parameters configuration & axes monitoring tools
- FwIOConfig: I/O mapping & CANopen & EtherCAT® networks configuration
- -FwTracer: PLC & events tracer

Accessories

- Touch-screen consoles
- CANopen® or EtherCAT® I/O modules

The numerical control InfraCNC 3 in association with Infranor drive & motor ranges is able to solving the most complex applications in the most varied fields. Our solutions are based on extensive product and application know-how, engineering skills, sourcing, in-house flexible manufacturing and are tailored to our customer's needs. We implement strategic system solutions in collaboration with our customers.

Applications examples

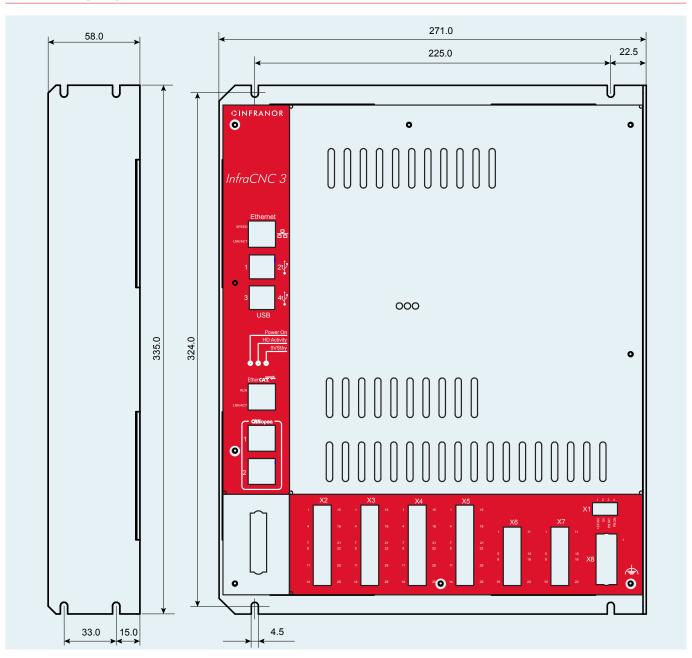
Machine Tools

- -3-axis, 5-axis multi-process machining center (milling-turning)
- Multi-spindle turning machines 12 axis (multi-CNC channels)
- -Engraving machines
- -Grinding machines

Special machines

- High accuracy laser micromachining
- Parallel kinematics machines (Stewart, Delta)
- Finish turning machine for piston rings
- -3D printers, bio-printers & fluid dispensers

Dimensions [mm]



Infranor Product Range

Drives

Motors

Services



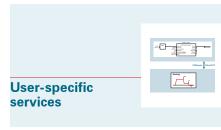


















Infranor Group

Infranor creates added value for its customers by providing tailor-made motion solutions.

Based on strong working relationships, Infranor offers extensive market know-how, comprehensive engineering skills and a wide range of high-quality products leading to productivity gains and therefore to comparative advantages for its customers in their respective markets.

Infranor worldwide

Switzerland Germany France Italy Benelux UK Spain USA China

Other representations: Denmark, Poland, Slovenia, Israel, India.



www.infranor.com

Contact