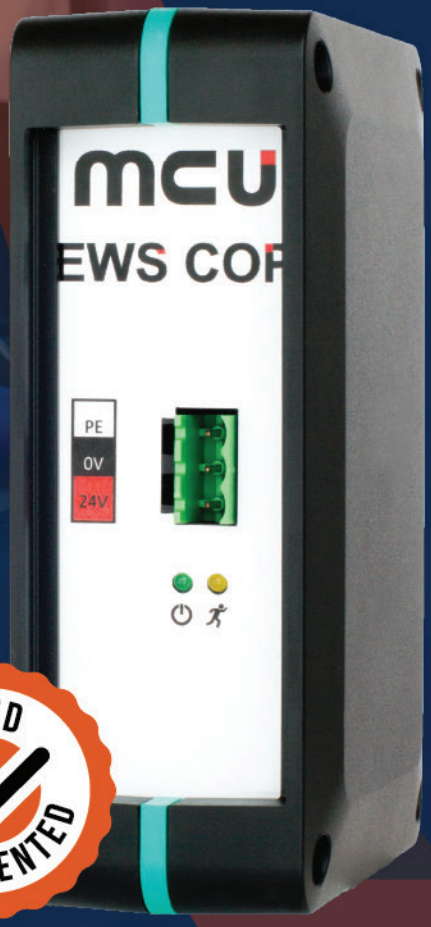
SMART SENSORS
INTELLIGENTIA

Prevent collisions, before they happen

EWS COP is THE ONLY SYSTEM THAT ACTS BEFORE HUMAN ERROR, ensuring safety and operational continuity

1st in the World

- NO SENSOR
- NO PLC CHANGES REQUIRED
- EASY RETROFIT ON EXISTING MACHINES



PATENTED PATENTED

A true market first

Protects your investments from operator errors

mcu
EWS COP

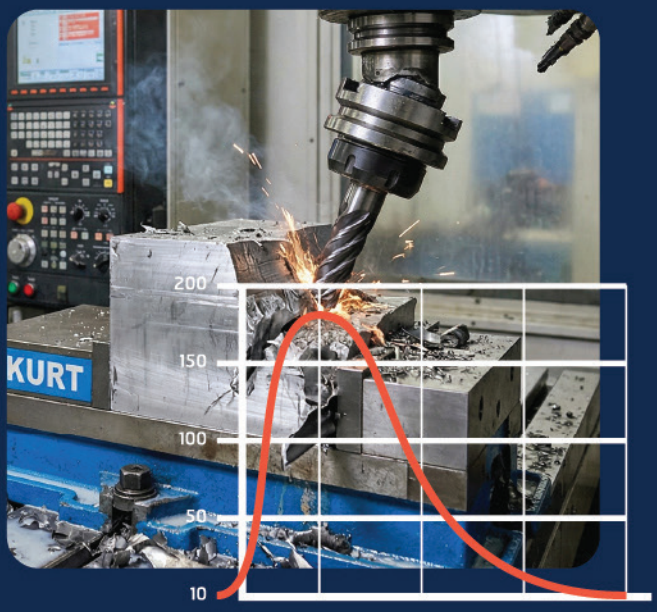
World Exclusive Technology

Collisions aren't random

Collisions in machine tools are one of the leading causes of lost production

Up to
70%
of production losses are caused by collisions

il
92%
of collisions are due to human error



Main causes

- *Incorrect tool length compensation*
- *Incorrect change to the workpiece zero*
- *Faulty restart after program interruption*
- *Unintentional changes to the NC program*

Human error is no longer an acceptable risk

While other systems measure the impact,
EWS COP is the only patented technology able to catch the operator's typing error,
making collisions a thing of the past

Benefits

- Reduced collision damage
- Elimination of the most critical operator errors
- Greater process safety
- Reduced machine downtime

MCU
EWS COP

The future of the shop floor is Error-Free

Key features

NC program restart control
Automatic identification of valid re-entry points in the program

Program change control
Flags unintentional changes to the CNC program

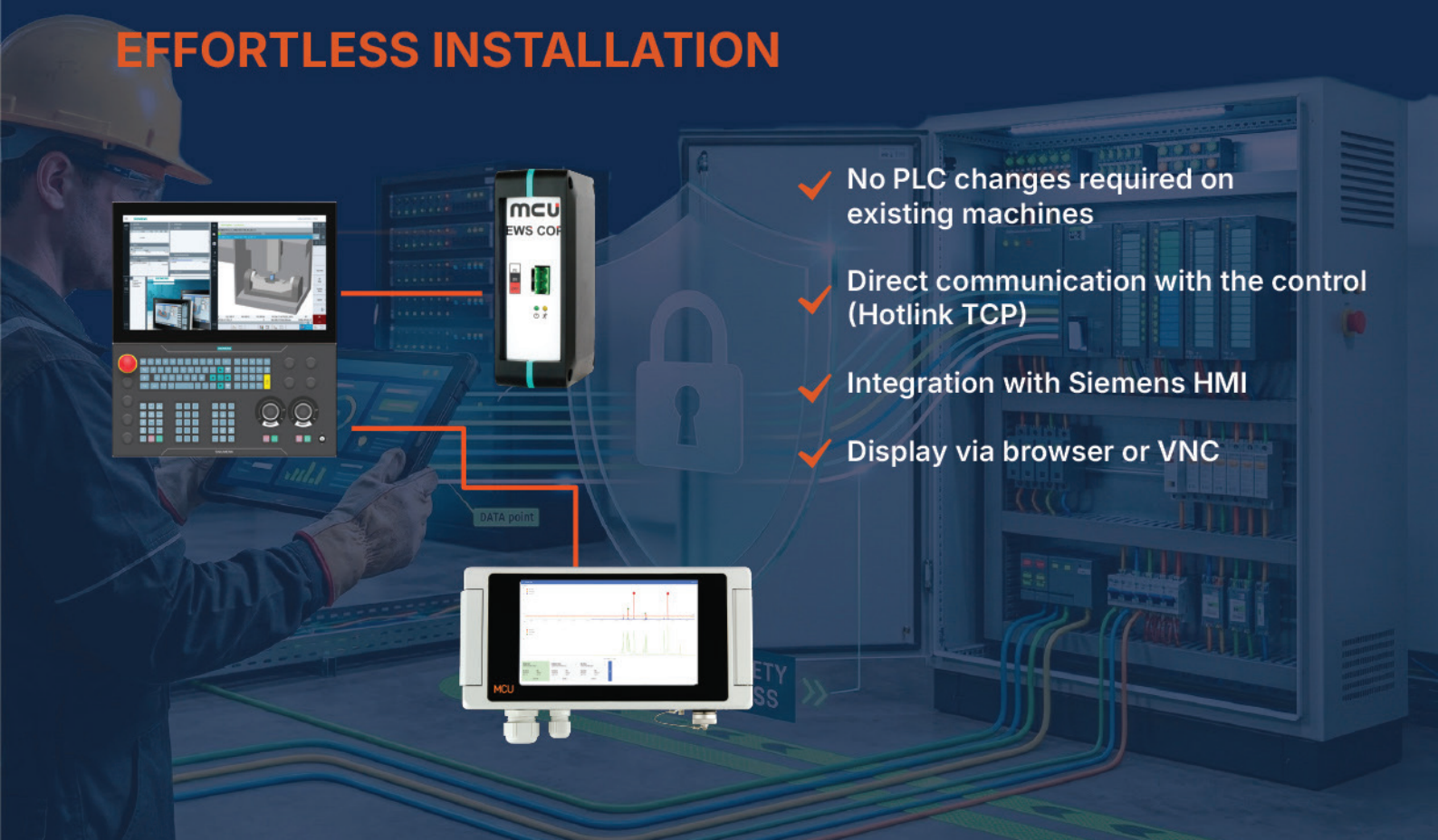
Tool offset monitoring
Checks variations in the tool table against defined tolerances

Zero Offset monitoring
Monitors changes in the offset tables with configurable limits

Want to see how EWS COP catches human error?

Request a technical demo

EFFORTLESS INSTALLATION



- No PLC changes required on existing machines
- Direct communication with the control (Hotlink TCP)
- Integration with Siemens HMI
- Display via browser or VNC

It's not a collision sensor, it's a logic-based prevention system.

If the operator enters the wrong data, EWS COP knows before the machine does

Standard systems:
Reactive (they limit the damage)

EWS COP:
Proactive (it eliminates the risk)

FEATURE	TRADITIONAL SYSTEMS	EWS COP (MCU)
Intervention timing	After impact (damage limitation)	**Before impact (prevention)**
Type of control	Physical / Mechanical	**Logical / Digital**
Associated costs	Repairs and machine downtime	**None (the damage never happens)**
Exclusivity	Market standard	**World-first patent**

Capital protection

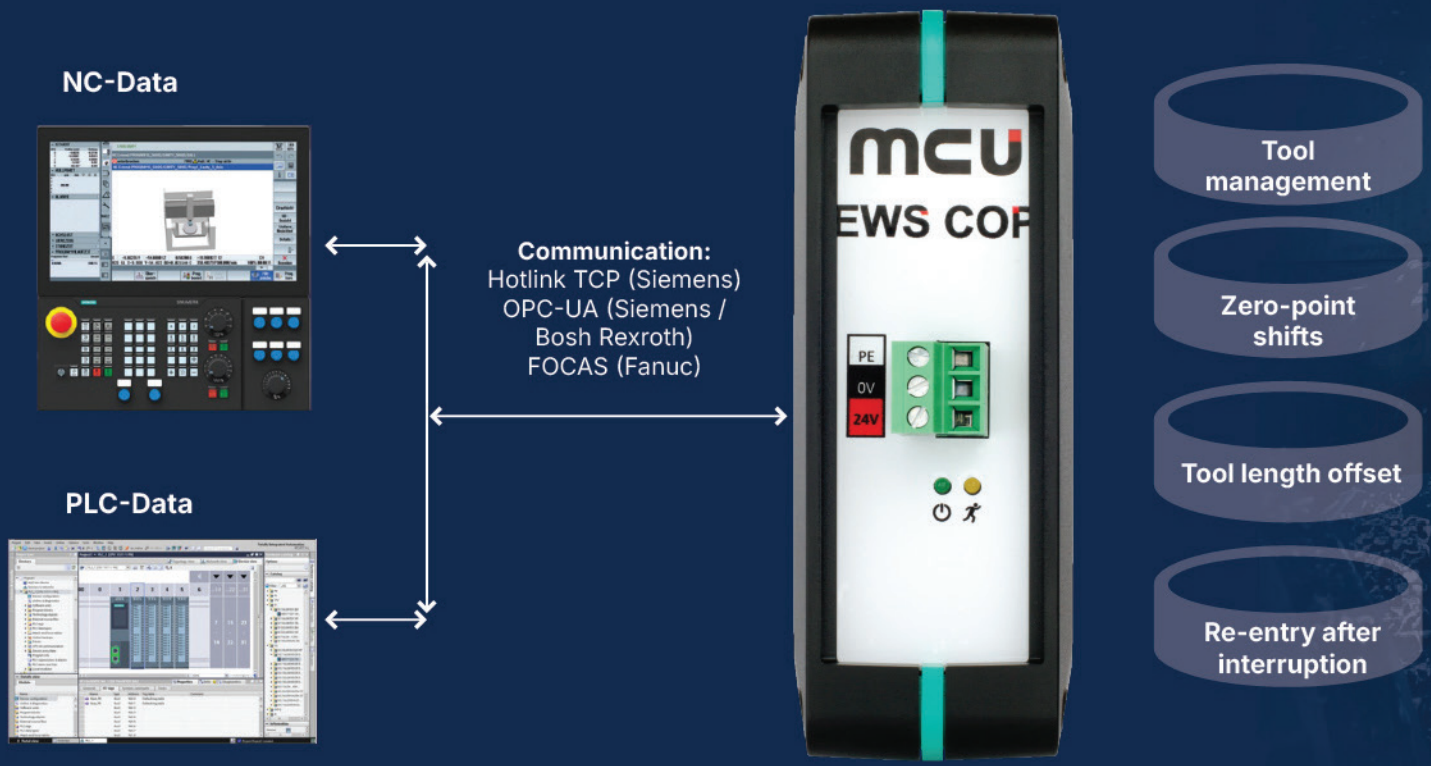
Protect your most valuable investment

The system constantly monitors input consistency, acting as an unbreachable safety filter

Tranquillità per l'Operatore

Reduces staff stress

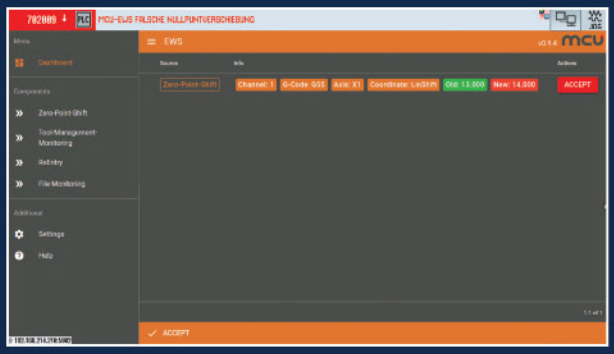
Removes the fear of making fatal errors during programming or setup



EWS COP checks the data before the machine moves

EWS COP monitors, in the background, every change relevant to machine motion and automatically identifies implausible data

- Continuous monitoring of changes to machine data
- Automatic comparison against predefined limits
- Detection of critical variations
- Preventive block before execution



Easy to integrate. Ready to use.

REQUIRES NO PLC CHANGES

Thanks to a patented method, information is exchanged fully autonomously, with no changes required to the machine's PLC.

Stop hoping it won't happen

Make sure it never happens again

Install mcu EWS COP

SMART SENSORS
INTELLIGENTIA

The new benchmark for intelligent process monitoring

Intelligentia Smart Sensors' mission is to bring together technologies, industrial expertise and premium brands to deliver intelligent, reliable monitoring solutions, ready for the challenges of modern industry.

Intelligentia Smart Sensors' growth strategy rests on three key pillars:

- **In-house sensor manufacturing**
- **Acquisition of leading brands**
- **International technology partnerships**

Your go-to partner, able to select and offer you the best technologies on the market and pinpoint the solution with the best price/performance ratio.

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