

Who said you can't keep the assembly line going during maintenance?

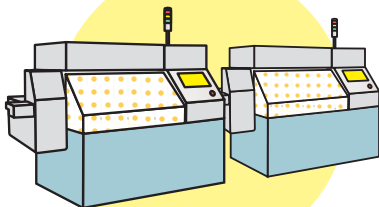
You can, and Safely.

Functional safety version



Functional safety provides safe and cost-effective solutions.

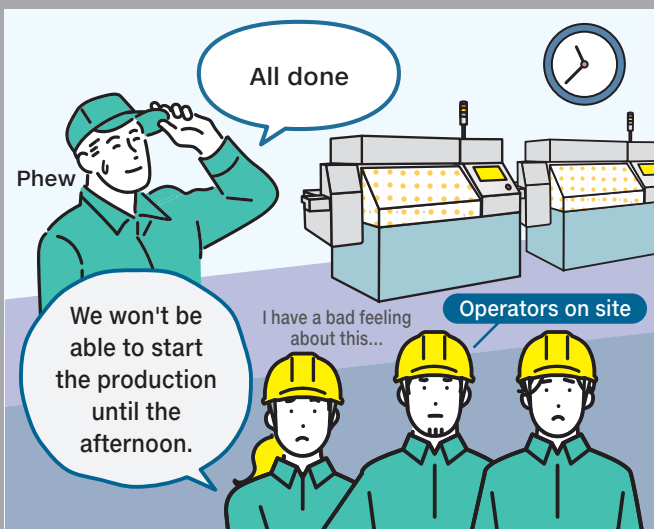
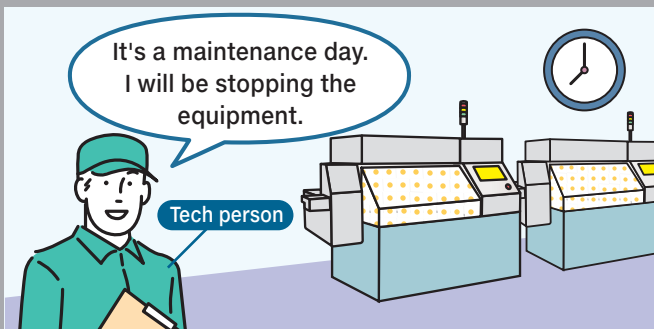
Restarting all equipment after maintenance takes too much time.



Benefits of functional safety

- Provide maintenance without turning off the power.
- Make the control and safety functions coexist for less wiring and lower cost.

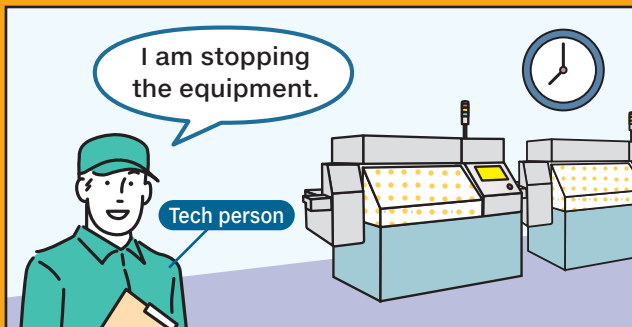
Older types of safety function



Provide maintenance without stopping the production lines.

SOS can reduce down time.

(safe operating stop)



**Leave the power on,
and keep working.**



The SOS monitors deviation from the motor stopping position to keep it within a certain range. This safety function allows you to keep on working safely while maintenance is in progress.



Maintenance is done.

No need to zero seek?
Quick recovery!



Shorter down time

A lineup of Mitsubishi Electric functional safety products

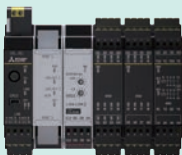
✔ Safety control for large-scale facilities



MELSEC iQ-R
series
CC-Link IETSN

Integrated general/safety control

- CPU for general purpose and safety on the same base
- Collective control of general and safety-related programs



WS series

Quickly add-able to the existing system

- Flexible scalability and fast 8-ms response capability
- Add-on safety control mechanism for existing programmable controllers

✔ Safety control for small-scale facilities



MELSEC iQ-F
series

Compatible with safety control for small-scale facilities

- Program-free safety control
- Alternative for safety relay, with less wiring

Term
explanation

STO ... Safe torque off
SOS ... Safe operating stop

✓ AC servo-driven motor safety



- Category 4 PL e, SIL 3 compatible
- Compatible with 10 types of functional safety when used in combination with the servo motor HT-KT, ST series

*STO- and SOS-compatible

✓ Inverter-driven motor safety



- Equipped with functional safety STO as a standard
- FR-E800-SCE supports 5 types of safety functions.

*STO-compatible. Does not support SOS.

✓ Robot



*The FR series is equipped with only the STO function as a standard. The use of other functional safety and safety input/output requires safety options.

*STO- and SOS-compatible

See the video presentations on functional safety.

e-learning



Find out more about the new functions, and download manuals.

**MITSUBISHI ELECTRIC
FA Global Website**



Catalogs



Manuals*



*: A free FA member registration may be required to view the manuals.

