

Description

Most **machinery needs to be modified/updated throughout its life time** for different reasons such as:

- Change of product, type or model in the production line.
- To increase the production capacity and/or profitability of the machine.
- To gain in safety and/or reliability.
- Obsolescence.
- Etc.

i9s studies each modification through a **safety study** and analyse **whether or not the change is substantial** in order to determine if the machine should be CE marked again.

Next we carry out the mechanical, electrical and pneumatic engineering, off-line programming, installation and start-up, until the stipulated cycle time and the desired product quality are achieved.

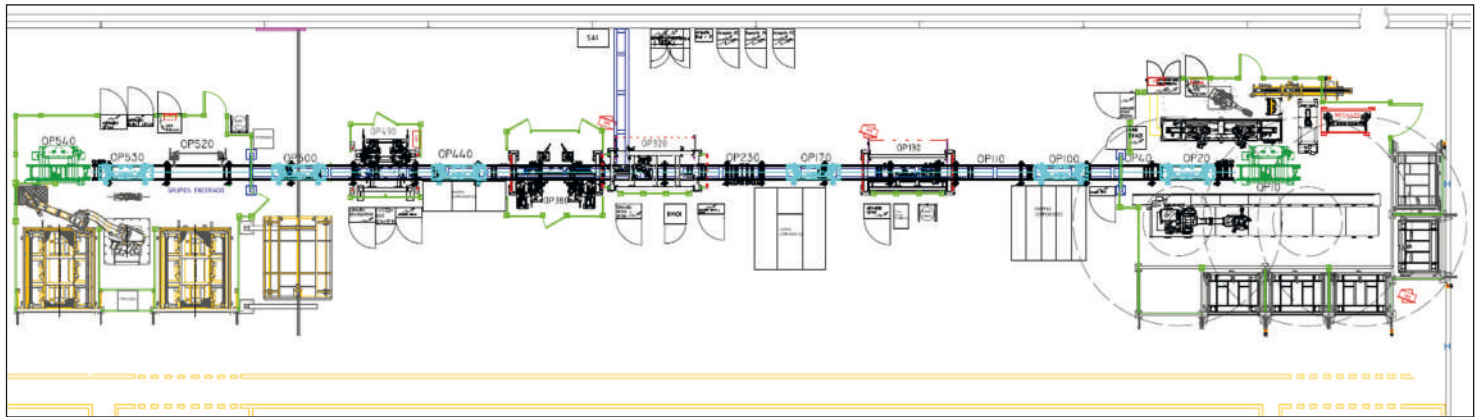
Specifications

The modifications are based on the following Directives and standards:

- **2006/42/EC Machinery Directive.**
- **2014/30/EU Electromagnetic Compatibility Directive.**
- **Harmonised Standards** for compliance with the Directives.

Examples

Examples are shown below:



Modification of automatic assembly line rear axles due to change of model

Scope of the service

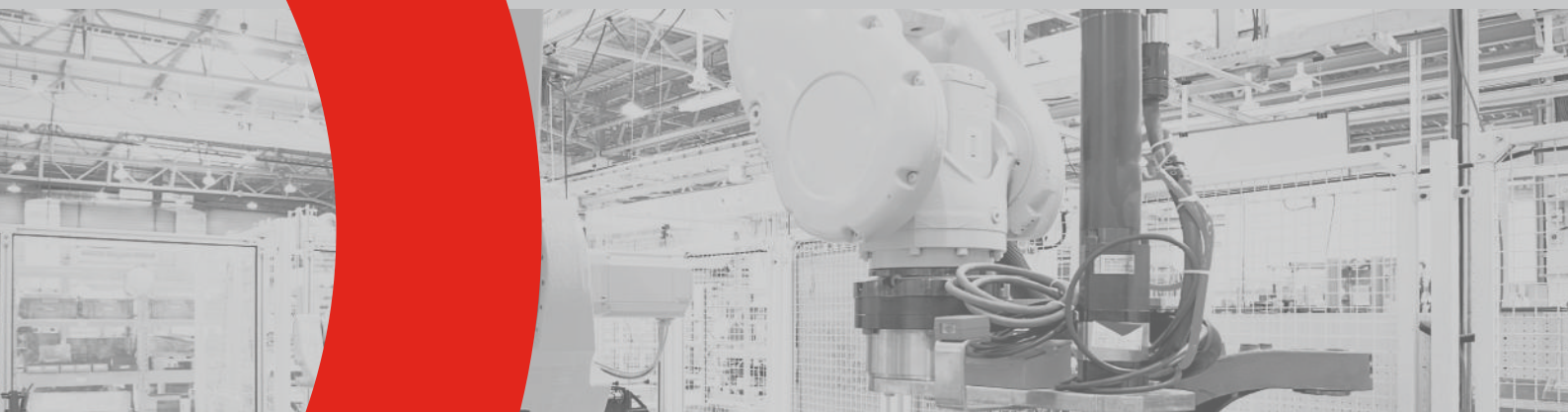
Modifying machinery comprises:

- Risk assessment of the changes, calculation of the PL or SIL of the new safety functions, mechanical, electrical and pneumatic engineering, PLC and equipment programming, installation and start-up.

Documentation

The following is delivered with each modification:

- Engineering and safety studies in PDF format.
(In Spanish. Other languages on demand.)



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