

Description

Our extensive experience in the machinery safety sector allows us to offer you an expert opinion and all the services necessary to prove the safety and reliability of your machinery.

According to the **Machinery Directive 2006/42/EC**, all machinery manufacturers must perform a procedure for assessment of conformity of their machines.

At i9s we specialise in industrial safety and help machine manufacturers to prepare their technical files, as well as in the validation processes, inspections and tests with the manufactured machine.

i9s can also act as the manufacturer of your machine and so assume responsibility for the **CE Marking**.

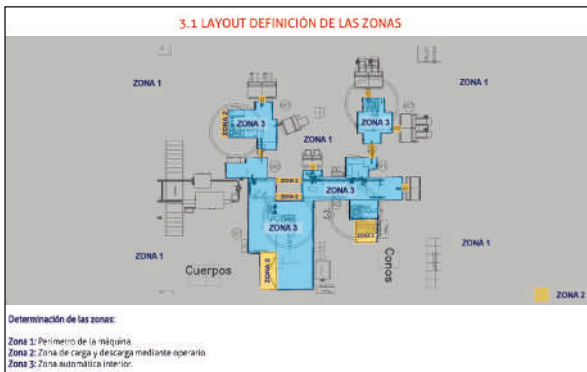
Specifications

The **machinery technical file** comprises the following sections, among others:

- The **risk assessment** according to ISO 12100 (identification of hazards, risk estimation, risk evaluation and risk reduction).
- **Calculations** of the reliability of safety-related control systems, or PL "**Performance Level**", in accordance with EN 13849-1.
- The **instruction handbook** according to Machinery Directive 2006/42/EC.
- The assembly and **electrical and mechanical detail drawings**.
- The **EHSR** verifications and tests, according to Annex I of the Machinery Directive.
- The **electrical equipment** (cabinet, installation) verifications and tests, according to EN 60204-1.
- The **EMC** verifications and tests, according to EN 61000-6-2, EN 61000-6-4.
- The validation of the safety functions **according to the safety matrix**.
- **Testing**, for example of: loads, lighting, noise, etc.
- The **EC Declaration of Conformity** of the machine and of incorporated machines or partly completed machinery.

Examples

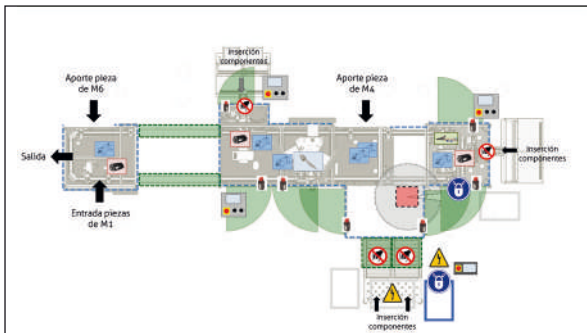
Some of the documents included in the technical file for the machine are shown below:



Risk assessment, zones of the machine

Riesgo residual		Riesgo residual		Riesgo residual		Riesgo residual		Riesgo residual	
RECATAR	ALTO	Medio	Bajo	Medio	Bajo	Medio	Bajo	Medio	Bajo
1	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	10

Risk assessment, details of the risks

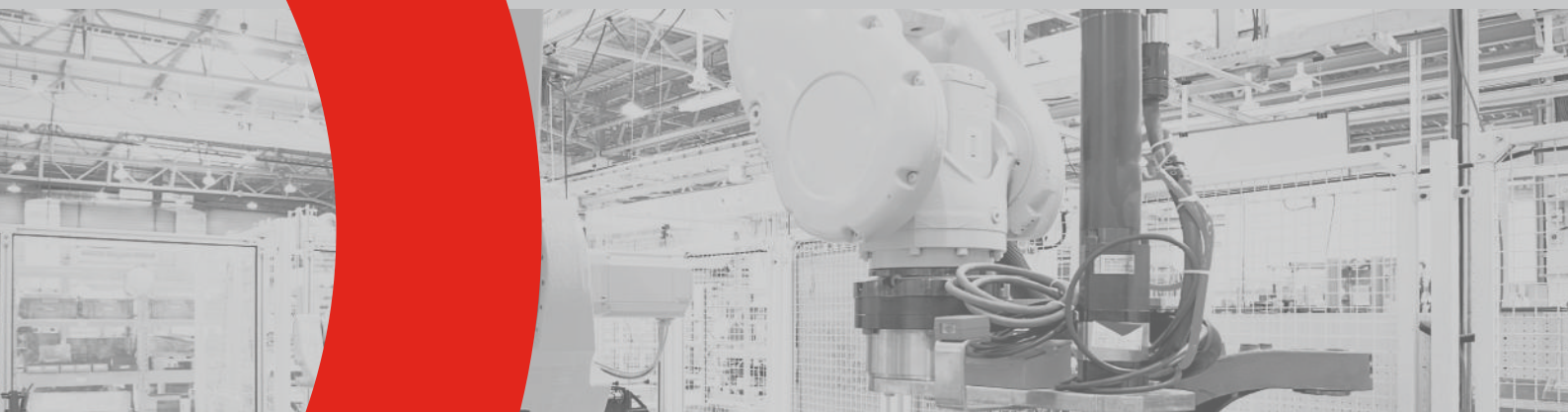


Safety layout

Documentation

The file can be delivered:

- In PDF digital format.
- In Spanish. Other languages on demand.



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