



FASyS

Fábrica Absolutamente Segura y Saludable

With the ambitious goal of improving business competitiveness through new levels of industrial safety and workplace comfort, the FASyS project aims at implementing both the excellence model for integrated occupational health and safety management in the handling, machining and assembly industries, together with a new generation of safety technologies and solutions.

FASyS – the Spanish acronym for Absolutely Safe and Healthy Factory – is a project with 40 month duration and a budget of 23.3 M€. It is one of the 18 large Spanish strategic projects supported by the CDTI (Centre for the Development of Industrial Technology) as part of the CENIT 2009 Programme.

FASyS has consolidated the vast diversity of incidents and accidents that can potentially take place in handling, machining and assembly factories into 13 prevalent hazards; such as trapping, falls on a level, awkward postures or repetitive and forceful movements. FASyS has also proposed the technology for incident and accident free workplaces through comprehensive risk level monitoring, risk early warning indication and pro-active control.

LEADER _____



PARTNERS _____



UNIVERSITIES AND R-D CENTRES _____



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FASyS Safety Technologies and Solutions

Safety detection and assessment techniques

- Industrial safety ontologies and reasoning engines.
- Smart ergonomic characterisation solutions.
- Functional workplace adaptation models.
- Human error identification systems.
- Models for detecting psycho-social indicators and profiles.
- Adapted learning solutions.
- Chemical sensors for pollutant detection.

Sensor networks and communication solutions

- Wireless sensor networks and activity monitoring.
- Communications safety and privacy systems.
- Wireless communication in industrial environments.

Health diagnosis and continuous monitoring systems

- Applications for intelligent video analysis.
- Real-time risk detection tools.
- Automatic medical alert warning system.
- Occupational pathology assessment/diagnosis protocols.

Safe manufacturing equipment and processes

- Part manipulation and part feeding systems.
- Volumetric protection systems.
- Auto-calibration and auto-compensation systems for large units.
- Intelligent part movement guiding systems.
- Visualisation systems for part/tool referencing.

Comprehensive risk control systems

- Personalised risk prevention strategies.
- Personalised decision support systems.
- Semantic solutions for services coordination.
- Emotional interfaces for effective risk communication.

