



# Machinery Guarding

Design, manufacture and installation



**Safety Systems**

Technology

Part of the Machinery Division of TÜV SÜD Product Service



## Introduction

**Machinery Directive 2006/42/EC, which was introduced on December 31st 2009, fundamentally changed the requirements for machinery guarding. Annex V of the Directive is an indicative list of safety components and includes indent 7: "Guards and protective devices designed to protect persons against moving parts involved in the process on the machinery", hence guarding must now carry CE Marking and be issued with a Declaration of Conformity.**

Safety Systems offer a full in-house machinery guarding solution including consultation, design, manufacture and installation.

All guarding is designed and engineered in accordance with the latest EN standards including:

- BS EN 953: Safety of Machinery - Guards - General requirements for the design and construction of fixed and movable guards
- BS EN ISO 13857 Safety of Machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs
- BS EN 349 Safety of Machinery - Minimum gaps to avoid crushing of parts of the human body
- We also refer to 'Type C' standards where available for specific types of machinery

Following these standards allows us to provide best practice solutions to guarding applications therefore providing protection to persons whilst maintaining machine functionality and productivity.

## Other Services Include:

- Rapid CAD design and quotation service available
- National delivery and installation service to suit demanding production schedules.
- A wide range of materials to best suit the application and client needs
- Design and installation of safety controls such as door interlocks

All guarding can be offered as a turnkey solution, or alternatively it can be sold on a supply only basis.

All guarding supplied by Safety Systems will be in compliance with all relevant local legislation and comes with the documentation required by the Machinery Directive.

## Guarding Design

Services Using the latest Computer Aided Design (C.A.D) we can generate accurate machinery representations in both 2D & 3D formats and then overlay the proposed guarding solution to illustrate form and function. This is a key feature of our design facility, allowing operators to see the guarding in 'virtual position' prior to installation, highlighting any potential design changes prior to manufacture.

This flexibility makes modification of the design easy at any stage of the process, ensuring that all guarding meets client expectations, operator requirements and the relevant EN standards.



### Localised Guarding

Safety Systems can offer a wide range of localised guarding solutions for any industrial application, including:

- Process
- Packaging
- Pharmaceutical
- Automotive
- Food and drink
- Paper & board

### Machine Shop Guarding

Safety Systems supply and install a complete range of both standard and bespoke guards to a wide range of machine tools including:

- Drilling Machine Guards
- Lathe Guards
- Grinder Guards
- Chuck Guards
- Milling Machine Guards
- Saddle Shields
- Lead Screw Guarding



### Perimeter Guarding

Safety Systems offer flexible perimeter guarding solutions as both off the shelf or bespoke solutions for particular applications.

- Rapid CAD design and quotation service available.
- National delivery and installation service to suit demanding production schedules
- Durable powder coated mild steel, stainless steel or anodised aluminium construction
- A range of heights from 1.4m to 3.0m
- A range of duty ratings for different environments and impact resistance
- Access options such as hinged or sliding single or double doors, trackless doors and vertical gates
- A variety of infill materials such as sheet steel, weld-mesh, clear or tinted polycarbonate
- Locking options such as snap locks, cylinder locks and panic locks
- Simple assembly and installation
- A wide range of colours



### Additional Services

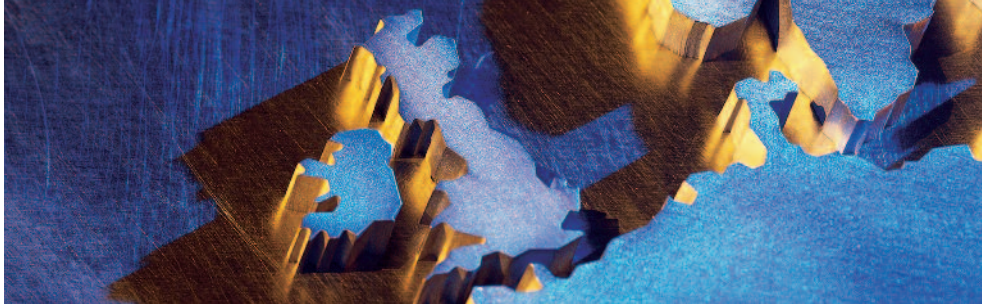
Alongside guarding. Safety Systems offer a wide range of machinery safety services including:

- Electrical Safety compliance
- Project management
- ESPE (light curtain) testing
- Safety product sales





Product Service



[www.safetysys.co.uk](http://www.safetysys.co.uk)



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