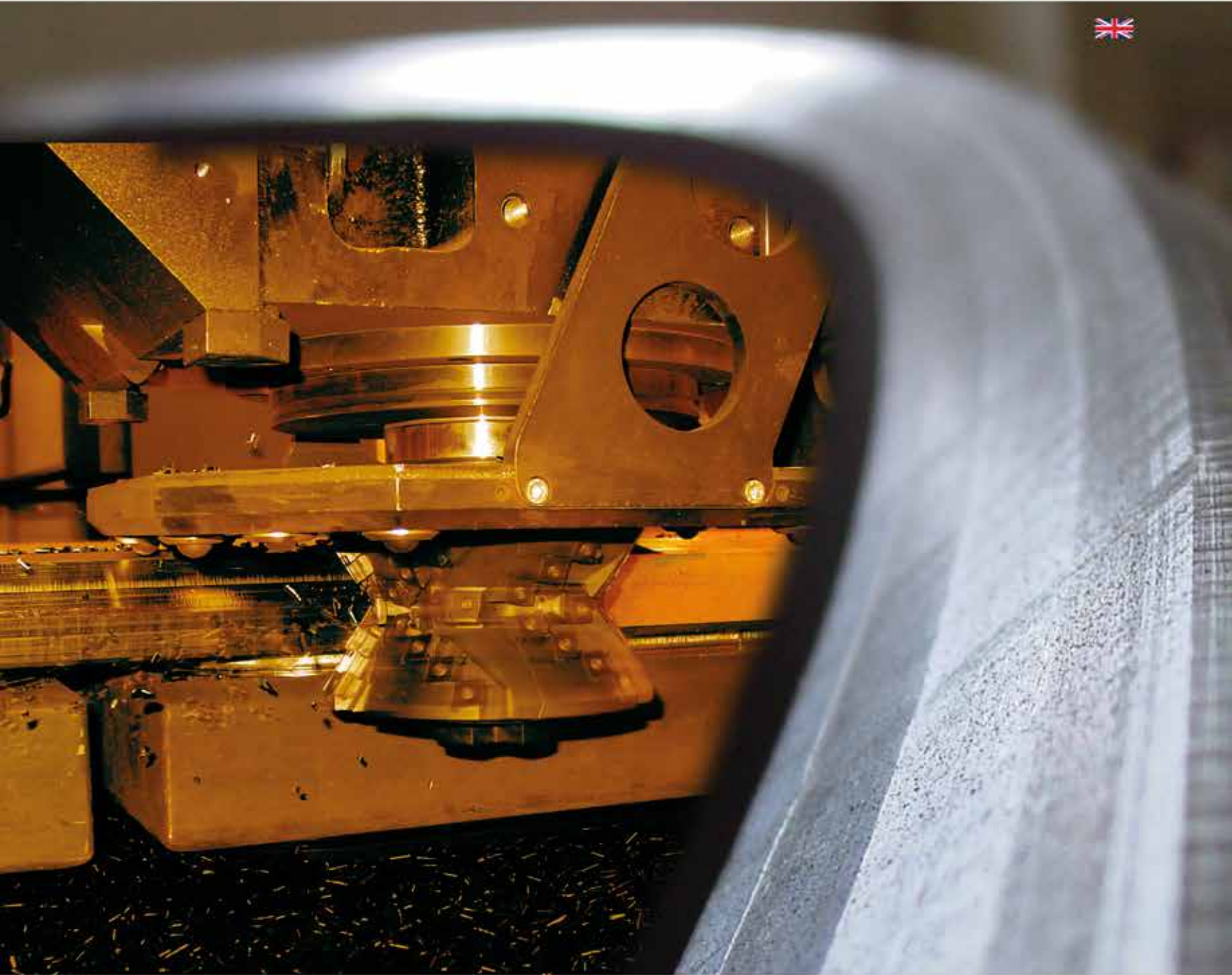


CBM tech[®]

Cold Bevel Milling Technology



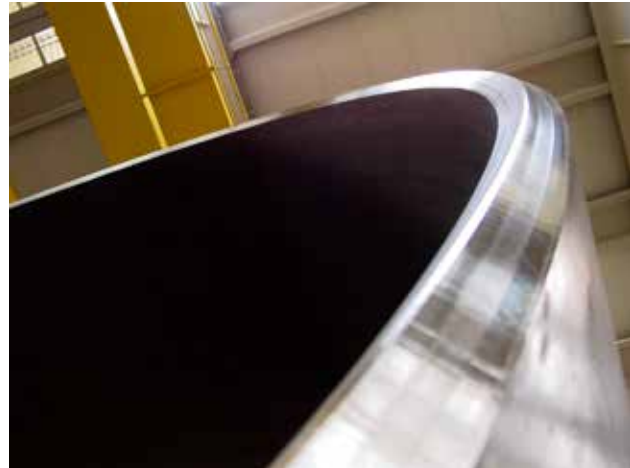
Sistemas Avanzados de Procesamiento de Chapa
Advanced Plate Processing Systems

CBM[®]

Cold Bevel Milling Technology

WHAT IS CBM

· The CBM procedure is indicated as a previous process to welded joints in the heavy industrial fabrication industries such as: shipbuilding, wind energy construction, petrochemical industry, large steel structures, and other industries that require high responsibility welding.



CBM FUNDAMENTALS

- The CBM system seeks to make bevels and welding edge preparations, using metal removal machining systems.
- CBM achieves bevel geometries that adapt to all global standards relative to welded joints and to the new designs that allow for savings in welding times and costs.
- It is the best adapted system for high responsibility and high reliability welded joints.
- CBM technology is developed to do piece preparations in extremely reduced times compared to traditional systems like triple-torch oxy-fuels and other portable systems.
- The CBM system sets quality, reliability and productivity standards in the heavy fabrication industries that are not achievable with any other procedure.
- The added benefits of CBM to the edge preparation process are objective, easily comparable and measurable.

CBM PROCEDURES

- This type of process builds its advantages on the production of welding bevels by mechanical means.
- The CBM system produces bevels using high speed tools with high incidence inserts, allowing for the removal of metal with no temperature increase.
- In order to certify a procedure as CBM the production of the bevel must be done in a single pass, regardless of the number of faces or noses to be beveled.
- In the CBM procedure neither cooling liquids nor other agent additions that could alter the conditions of the material to be welded exist.
- In order to obtain the CBM certification, it is necessary to have the specific machinery and tools for the production of this type of jobs with the purpose of respecting the speed, surface finish, performance and result conditions.

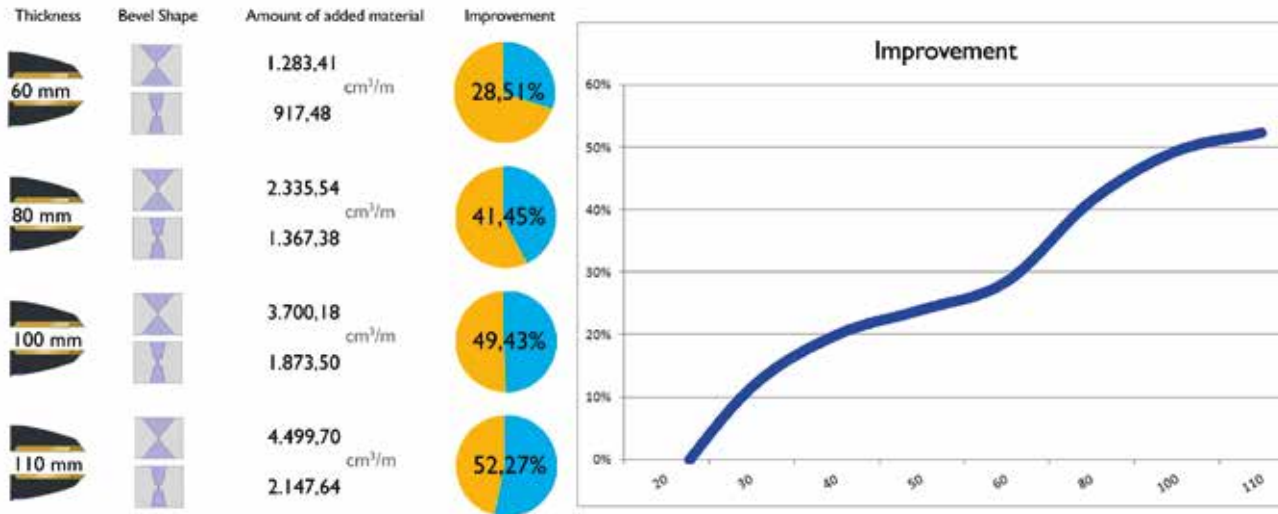
BASIC ESPECIFICATIONS

- The production of bevels by means of CBM Technology is valid for thicknesses between 6 mm and 140 mm.
- Depending on the type of equipment used, several bevels on the same piece can be produced at the same time.
- Possibility of bevel production in external and internal contours.
- Complex cuts without residues as opposed to thermal cutting.
- Possibility of working on straight, curved sides or any other shape geometry.
- Possibility of re-use of cutting inserts with up to 8 sides, with the consequent savings.
- Possibility of regulation and adjustment to the material shape.

QUALITY CERTIFICATE



COMPARATIVE STUDY



ADVANTAGES AGAINST THE TRADITIONAL SYSTEMS



- 1 Complex bevels in a single pass
- 2 High speed in the production of beveling jobs
- 3 Without modifications of the material properties
- 4 Improved quality and dimensional tolerance in the final product
- 5 No need to clean the edges of the final product
- 6 High profitability on beveling jobs and absence of problems derived from bevels

CBM[®] technology

- 1 Complex bevels in a single or multiple passes
- 2 Increased time for the production of multiple-faced bevels
- 3 Thermal / chemical modifications in the material structure
- 4 Lower cutting quality and lower dimensional accuracy in the final product
- 5 It is necessary to clean the cut edges before welding
- 6 Poor profitability for complex bevels

Thermal Cut
Oxy-fuel, Triple Oxy-fuel and Plasma

CBM

Soluciones funcionales para procesos **exigentes**
Functional **solutions** for **demanding** processes



service center / centro de servicios



construction / construcción



railway / ferrocarril



aeronautics / aeronáutica



public works / obra pública



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