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Interpretation of Drawing Symbols According to ISO 2553

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CESOL

Agenda Items



- Overview of ISO 2553 and Its Importance
- Key Elements of Brazing Symbols
- Structure and Interpretation of the Reference Line
- Commonly Used Brazing Symbols and Their Interpretation
- Indicating Dimensions in Brazing Symbols
- Additional Indications in Technical Drawings
- Project and Document Information



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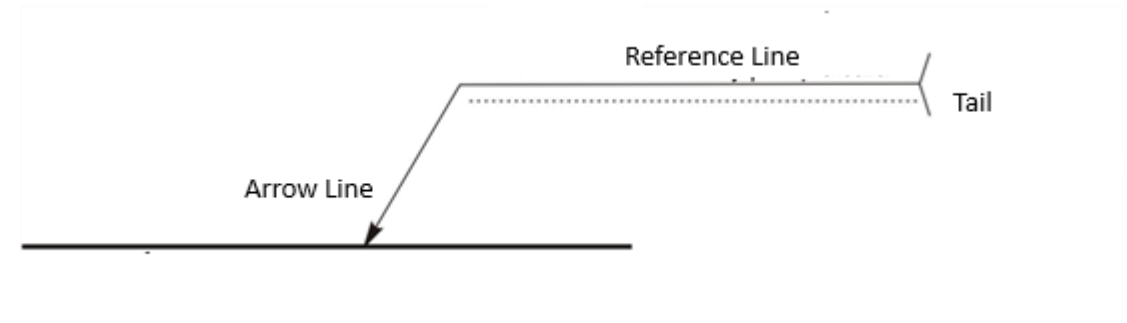
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Key Elements of Brazing Symbols

Essential components of a brazing symbol

- **Reference line:** The central feature of the symbol, used to indicate the location and specifics of the joint on technical drawings.
- **Basic symbols or combinations of symbols:** These denote the type of joint or weld, and may be combined to convey more complex requirements.
- **Supplementary symbols:** Additional symbols are used to specify further characteristics, such as surface finish or quality standards.
- **Dimensions:** The size and geometry of the weld, including length, width, and depth, are indicated to ensure accurate fabrication.
- **Additional instructions:** Optional notes or guidance can be attached to the symbol to clarify procedures, consumables, or other relevant information.



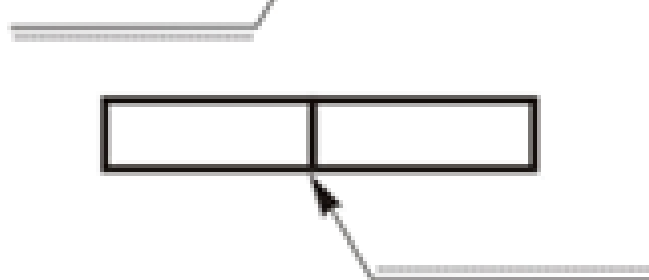
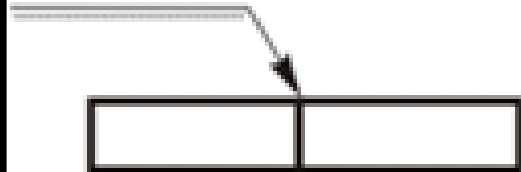
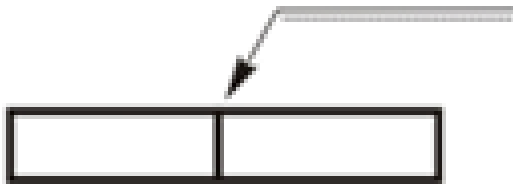
Reference Line



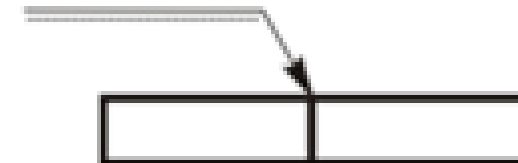
- Arrow line, which points towards the joint and shows where the welding is to be performed.
- Reference line itself, which, except for some exceptions, consists of a double line—one continuous and the other dashed—which may be placed either above or below the former. On this double reference line, the face or faces of the joint to be worked on, as well as the characteristics and dimensions of the weld to be made, are specified.
- Optional tail, where any supplementary indications may be provided.

Reference Line

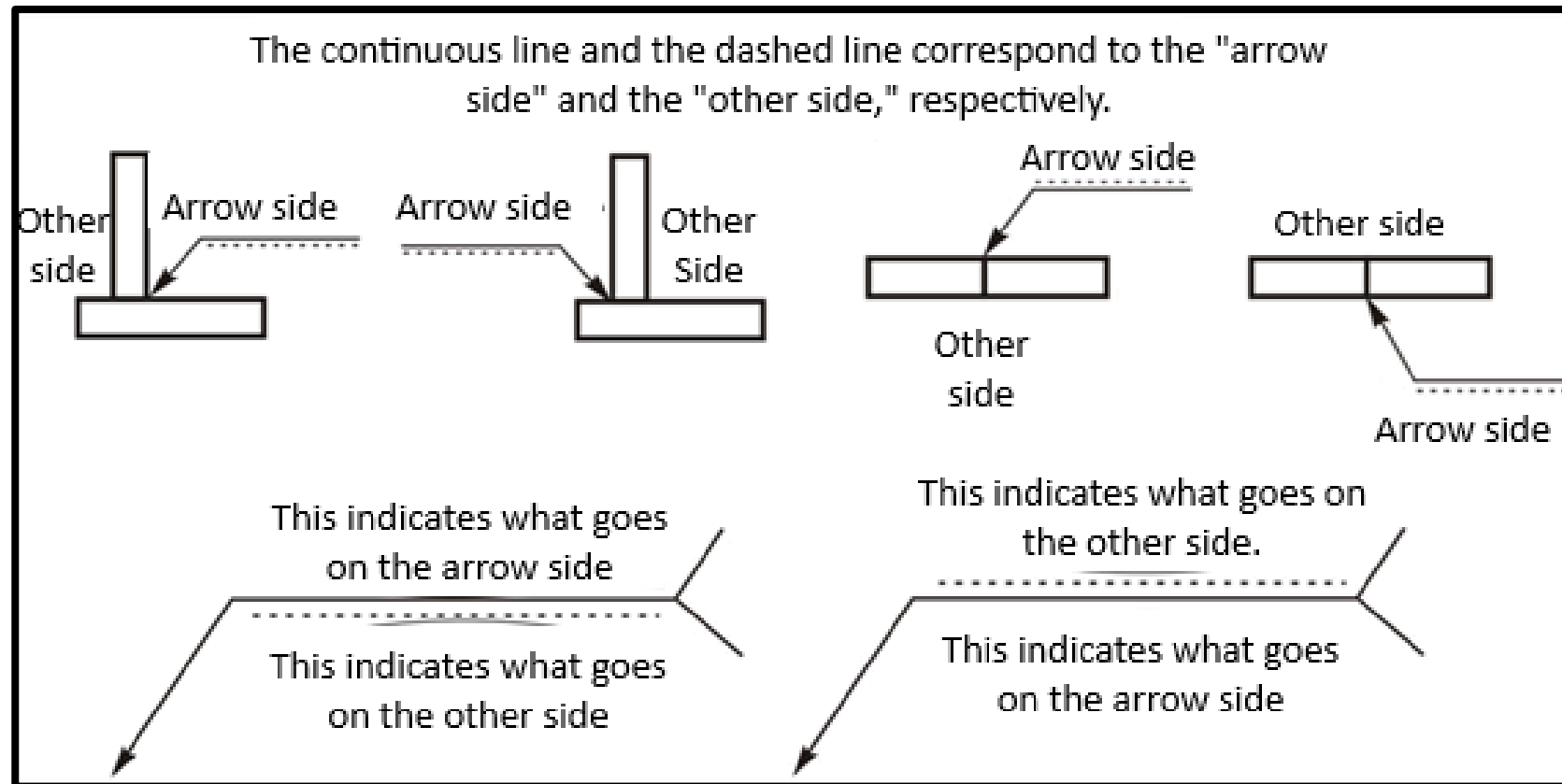
In general, the position of the reference line and the arrow is indifferent.



When one part has edge preparation and the other does not, the arrow shall point to the part with the edge preparation.



Reference Line





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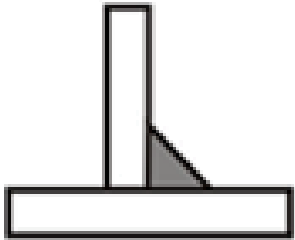
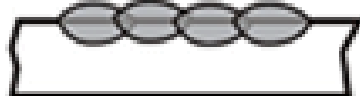
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Commonly Used Brazing Symbols and Their Interpretation

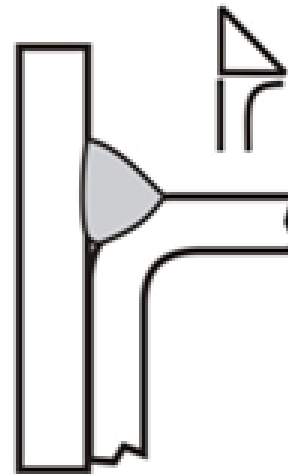
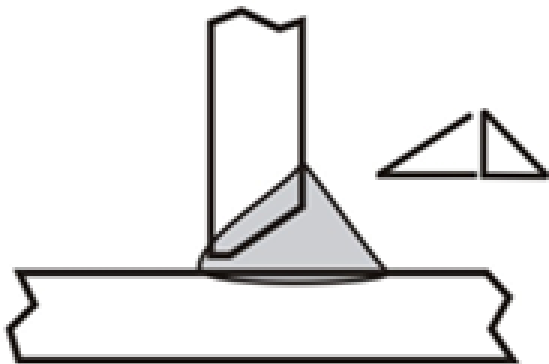
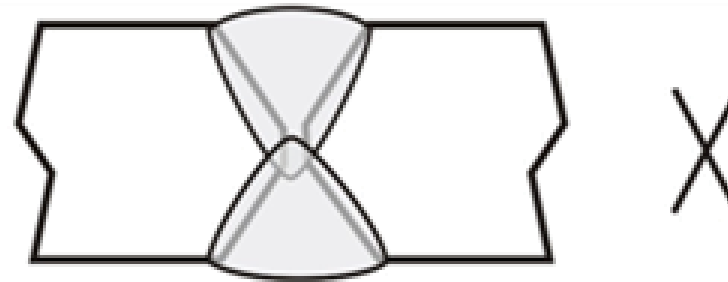
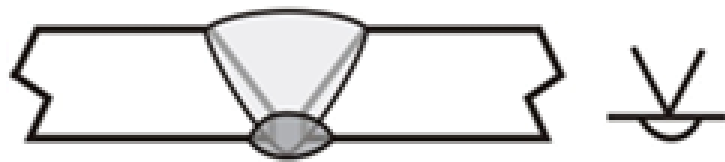
Symbols

Butt weld with square edges			Root, backing, or back weld		
Butt weld with V-groove edges		V			
Butt weld with V-groove edges and a wide root face		Y	Fillet weld		
Butt weld with U-groove edges		U	Surfacing weld		

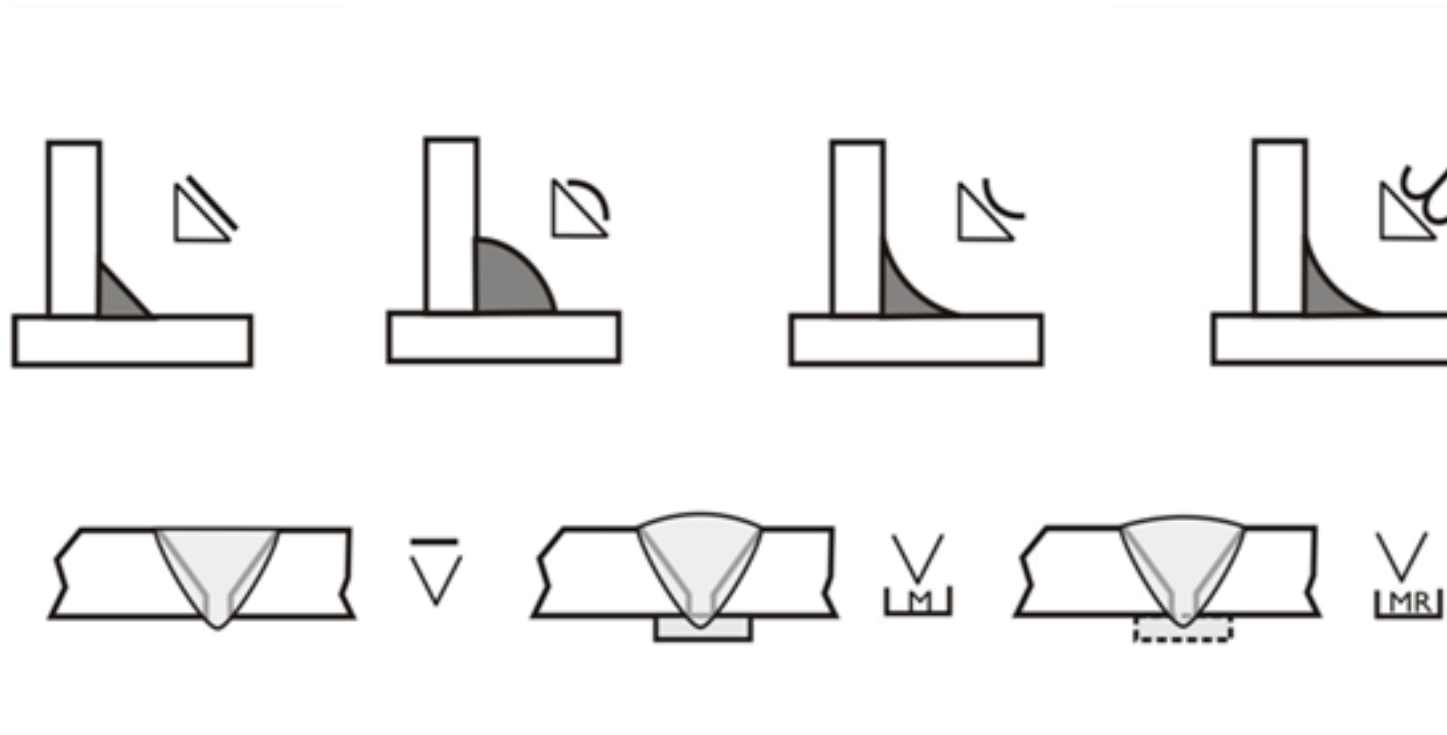
Combination of Symbols



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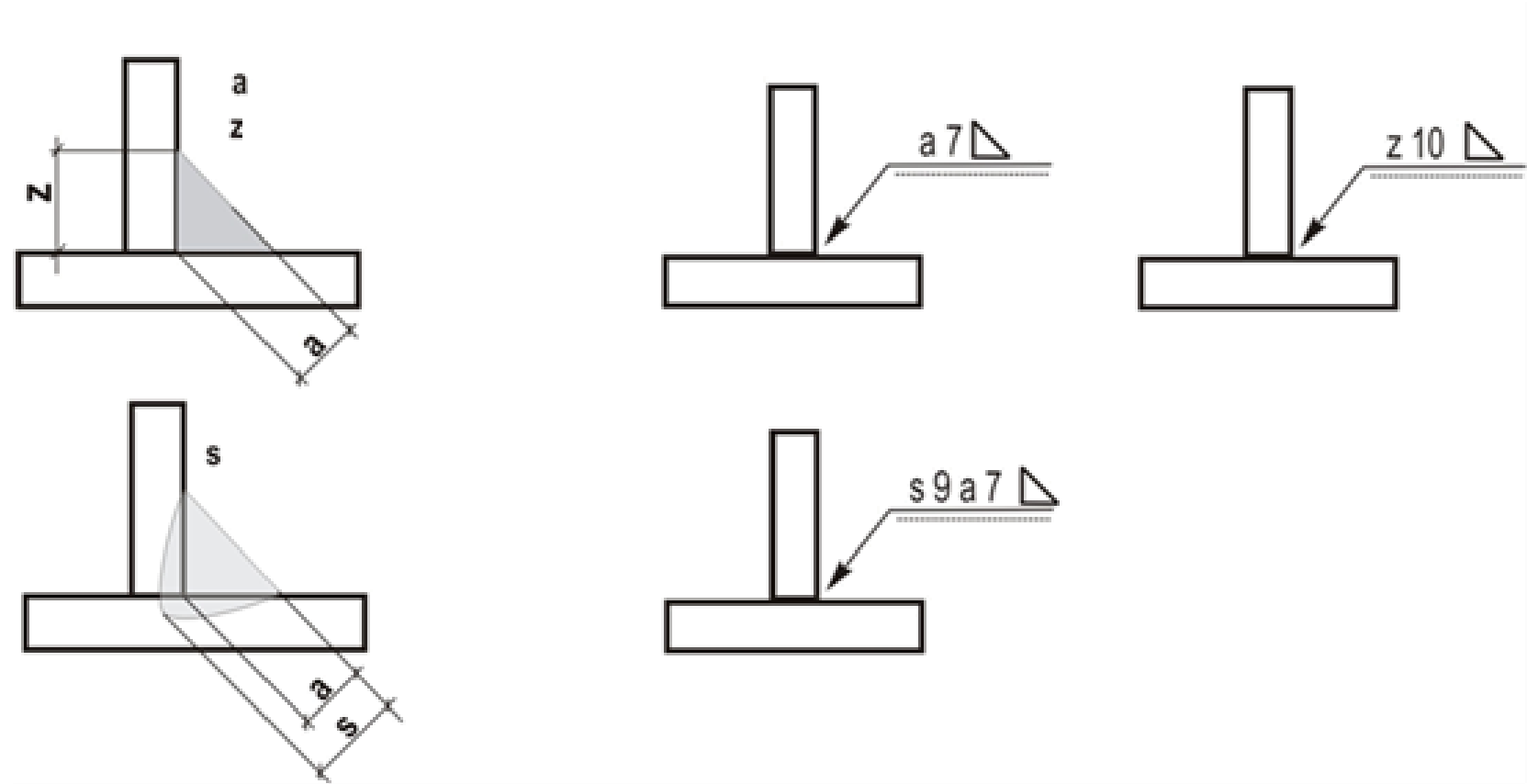
Combination of Symbols



Dimensions



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Additional Indications

