

Guideline (not under Configuration Control)

CAD Manual 10 - ISO Drawing Standards

This section of the CAD manual lists the current available ISO standards applicable for Drawings and Diagrams.

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	<i>Name</i>	<i>Action</i>	<i>Affiliation</i>
<i>Author</i>	Mann J.	21-Dec-2011:signed	IO/DG/DIP/CIE/DO/DCC
<i>CoAuthor</i>			
<i>Reviewers</i>	Heidl H. Martin E.	17-Jan-2012:recommended 04-Jan-2012:recommended	IO/DG/DIP/CIE/DO/DCC IO/DG/DIP/CIE/DO
<i>Approver</i>	Kondoh M.	02-Mar-2012:approved	IO/DG/DIP/CIE
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10 ISO standards for drawings and diagrams

10.1 Purpose

This CAD manual section lists the currently available ISO standards associated to technical drawings and diagrams.

10.2 Scope

This document is intended to provide the designer & engineer involved in production of drawings & diagrams with a list of the currently available ISO standards.

It is applicable for the IO, DA and Suppliers.

10.3 Technical drawings

ISO 128	Technical drawings - General principles of presentation.
ISO 129	Technical drawings - Indication of dimensions and tolerances.
ISO 2553	Welded, brazed and soldered joints - Symbolic representation on drawings.
ISO 3098	Technical product documentation- Lettering.
ISO 4063	Welding, and allied processes - Nomenclature of processes and reference numbers.
ISO 5455	Technical drawings - Scales.
ISO 5456	Technical drawings - Projection methods.
ISO 5457	Technical drawings - Sizes and layouts of drawing sheets.
ISO 6412	Technical drawings - Simplified presentation of pipelines.
ISO 6413	Technical drawings - Representation of splines and serrations.
ISO 6433	Technical drawings - Item references.
ISO 7083	Technical drawings - Symbols for geometric tolerancing.
ISO 7200	Technical product documentation - Data fields in title blocks and document headers.
ISO 7573	Technical product documentation - Parts lists.
ISO 10209	Technical product documentation - Vocabulary.

10.4 Mechanical engineering drawings

ISO 1101	Geometric tolerancing, generalities (GPS) - Geometrical tolerancing - Tolerances of form, orientation, location and run-out.
ISO 1302	Geometrical Product Specification (GPS) - Indication of surface texture in technical product documentation.
ISO 1660	Technical drawings - Dimensioning and tolerancing of profiles.
ISO 2162	Technical drawings - Springs.
ISO 26909	Springs – Vocabulary.
ISO 2203	Technical drawings - Conventional representation of gears.
ISO 2692	Geometrical product specifications (GPS) - Geometrical tolerancing - Maximum material requirement (MMR), least material requirement (LMR) and reciprocity requirement (RPR).

ISO 2768	General tolerances.
ISO 3040	Geometrical product specifications (GPS) - Dimensioning and tolerancing - Cones.
ISO 5458	Geometrical tolerancing - Positional tolerancing.
ISO 5459	Geometrical product specifications (GPS) - Geometrical tolerancing - Datums and datum-systems.
ISO/TR 5460	Technical drawings - Geometrical tolerancing - Tolerancing of form, orientation, location and run-out. Verification principles and methods. Guidelines.
ISO 5845	Technical drawings - Simplified representation of the assembly of parts with fasteners.
ISO 6410	Technical drawings - Screw threads and threaded parts.
ISO 6411	Technical drawings - Simplified representation of centre holes.
ISO 7083	Technical drawings - Symbols for geometrical tolerancing - Proportions and dimensions.
ISO 8015	Geometric product specifications (GPS) - Fundamentals - Concepts, principles and rules.
ISO 8826	Technical drawings - Rolling bearings.
ISO 9222	Technical drawings - Seals for dynamic application.
ISO 10135	Geometrical product specifications (GPS) - Drawing indications for moulded parts in technical product documentation (TPD).
ISO 10578	Technical drawings - Tolerancing of orientation and location - Projected tolerance zone.
ISO 10579	Geometrical product specifications (GPS). Dimensioning and tolerancing - Non-rigid parts.
ISO 13715	Technical drawings - Edges of undefined shape - Vocabulary and indications.

10.5 Construction drawings

ISO 2594	Building drawings - Projection methods.
ISO 3766	Construction drawings - Simplified representation of concrete reinforcement.
ISO 4157	Construction drawings - Designation systems.
ISO 4172	Technical drawings - Construction drawings - Drawings for the assembly of prefabricated structures.
ISO 5261	Technical drawings - Simplified representation of bars and profile sections.
ISO 6284	Construction drawings - Indication of limit deviations.
ISO 7437	Technical drawings - Construction drawings - General rules for execution of production drawings for prefabricated structural components.
ISO 7518	Technical drawings - Construction drawings - Simplified representation of demolition and rebuilding.
ISO 8048	Technical drawings - Construction drawings - Representation of views, sections and cuts.
ISO 8560	Technical drawings - Construction drawings - Representation of modular sizes, lines and grids.
ISO 9431	Construction drawings - Spaces for drawing and for text, and title blocks on drawing sheets.

ISO 11091 Construction drawings - Landscape drawing practice.
ISO 80000 Quantities and units.

10.6 Other standards related to technical drawings

ISO 6414 Technical drawings for glassware.

10.7 Graphical symbols for use on Diagrams

ISO 1219 Fluid power systems and components - Graphic symbols and circuit diagrams.
ISO 3511 Process management control functions and instrumentation - Symbolic representation.
ISO 3952 Kinematic diagrams - Graphical symbols.
ISO 10628 Flow diagrams for process plants - General rules.