

VDMA
Standardization

Lyoner Str. 18
60528 Frankfurt am Main

Contact
Helga Jost
Phone +49 69 6603-1342
E-Mail helga.jost@vdma.org
Internet <https://www.vdma.org/technical-rules-standards>

Standardization



Standardization
Key tool for the mechanical
engineering industry

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VDMA DesignStudio



NAM - standardization for the mechanical engineering industry

Recipe for success since more than seven decades

Standardization as a strategic instrument for corporate management is one of the core tasks of the VDMA. Standardization facilitates technical and economic cooperation at national, European and international level and is an important element of economic policy. In this sense, the VDMA promotes the competitiveness of the mechanical engineering industry by its commitment for the DIN Standards Committee for Mechanical Engineering (NAM).

<p>The VDMA as the financial, personnel and organisational sponsor of the DIN Standards Committee for Mechanical Engineering (NAM)</p> <ul style="list-style-type: none">• takes care for NAM's standardization activities at national (DIN), European (CEN) and international level (ISO) with approx. 40 full-time employees• provides content input in 27 specialist areas of the NAM with approx. 320 working committees and over 3000 experts• supports the project work and standardization management with technically competent and experienced VDMA personnel.	<p>Network and lobbying e.g. through</p> <ul style="list-style-type: none">• active involvement of small and medium-sized enterprises (SMEs) in standardization• information advantage through first-hand knowledge and observation of actual developments• representation of SME interests in European and international standardization bodies in which they cannot actively participate <p>Safety of machinery and plants - primary focus of standardization work of NAM</p> <ul style="list-style-type: none">• by developing harmonised standards supporting EU internal market legislation, especially Machinery Directive/Machinery Regulation• through international standardization projects to achieve globally recognised market access conditions <p>Information and services</p> <ul style="list-style-type: none">• database "Machinery Safety Standards" - the research tool for designers and standard users, exclusively for VDMA member companies• events and information on current topics in the standardization landscape
<p>Future orientation and sustainable development e.g. through</p> <ul style="list-style-type: none">• Introduction of current technologies into standardization• Developing standardization projects based on the state of the art	

VDMA Specifications

The standard of the largest mechanical engineering association in Europe

VDMA Specifications are technical rules that are efficiently developed on a wide variety of topics in mechanical engineering within VDMA working groups. Like standards, they serve to promote the competitiveness of the mechanical engineering industry and are becoming increasingly important, especially for new and convergent technologies.

<p>Elaboration</p> <ul style="list-style-type: none">• in a transparent manner, in line with publicly available rules in accordance with the WTO/TBT criteria and in compliance with anti-trust law• closely based on the rules of international and European standardization• through participation of the relevant stakeholders, with the goal of "achieving consensus"• through agile working with expert support from VDMA personnel	<p>Specific fields of action, e.g.</p> <ul style="list-style-type: none">• specification of safety requirements if this could not be achieved at European/international standardization level.• as an alternative to conventional national standards, . e.g. as reference documents for proposals to European/international standardization project
<p>Sustainable development and promotion of innovation e.g. throughs</p> <ul style="list-style-type: none">• addressing actual topics in mechanical engineering, e.g. related to Industrie 4.0, sustainability and energy• recommendations and practical guidelines for planning, project engineering and tendering• foundation of work on expertise and future-oriented ideas	<p>Success stories and thematic focal points include</p> <ul style="list-style-type: none">• maintenance and repair of technical installations in buildings• energy efficiency for refrigerating systems and plants• development of OPC UA Companion Specifications¹ in the context of Industrie 4.0 <p>Information and services</p> <ul style="list-style-type: none">• database "VDMA Specifications" - research tool with access to complete texts of all VDMA Specifications exclusively for VDMA member companies• public access to all OPC UA Companion Specifications

¹ OPC UA (Open Platform Communications Unified Architecture) is a manufacturer-independent data exchange standard for industrial communication. In addition to various other advantages, it is possible to describe machine data semantically in a human- and machine-readable manner.