

# Safety Standards – An overview

## ISO 12100 (TYPE-A STANDARD) GENERAL PRINCIPLES FOR DESIGN – RISK ASSESSMENT AND RISK REDUCTION

TYPE-B STANDARDS RELATED TO HAZARDS			TYPE-B STANDARDS RELATED TO ASPECTS AND TECHNOLOGY		
<b>NOISE</b>	<b>SUBSTANCES</b>	<b>VIBRATION &amp; SHOCK</b>	<b>DIMENSIONS &amp; DISTANCES</b>	<b>POWER SOURCE</b>	<b>SAFETY DEVICES</b>
Determination of emission sound pressure levels at a workstation ISO 11200, ISO 11201 to ISO 11205	Evaluation of emission of airborne hazardous substances ISO 29042 series	Whole body vibration ISO 2631 series	Gaps to avoid crushing ISO 13854	Electrical equipment IEC 60204-1	Guards ISO 14120
Determination of sound power and energy levels ISO 3741, ISO 3743-1, ISO 3744, ISO 3745, ISO 3746, ISO 3747	Reduction of risks to health from hazardous substances ISO 14123-1, ISO 14123-2	Hand-arm vibration ISO 13753	Minimum distances ISO 13855	Pneumatic equipment ISO 4414	Interlocking devices ISO 14119
Determination of sound power levels by sound intensity ISO 9614 series	Hygiene requirements ISO 14159	Hand-held and hand-guided machinery ISO 20643	Safety distances ISO 13857	Hydraulic equipment ISO 4413	Two-hand control devices ISO 13851
Insulation performances of enclosures ISO 11546 series	<b>THERMAL HAZARDS</b>	<b>ERGONOMICS</b>	Permanent means of access ISO 14122 series	<b>CONTROL SYSTEMS</b>	Electro-sensitive protective equipment IEC 61496 series
Insulation performances of cabins ISO 11957	Human responses to contact with hot surfaces ISO 13732-1	Access openings ISO 15534	<b>ALARMS &amp; WARNINGS</b>	Avoidance of unexpected start-up ISO 14118	Pressure-sensitive protective devices ISO 13856 series
Declaration and verification of noise emission ISO 4871	<b>FIRE HAZARDS</b>	Anthropometric requirements for workstations ISO 14738	Design principles for safety signs ISO 3864-1	Design of safety-related parts of control systems ISO 13849-1	<b>ASSEMBLY OF MACHINERY</b>
	Fire prevention and protection ISO 19353	Computer manikins and body templates ISO 15536-1	Registered safety signs ISO 7010	Validation of safety-related parts of control systems ISO 13849-2	Integrated manufacturing systems ISO 11161
	<b>ELECTRICAL HAZARDS</b>	<b>RADIATION HAZARDS</b>	Auditory danger signals ISO 7731	Emergency stop function ISO 13850	
	Protection against electric shock IEC 60204-1	Lasers and laser-related equipment – Generals ISO 11145	Visual, acoustic and tactile signals IEC 61310-1		

### TYPE-C STANDARDS

THERE ARE MANY STANDARDS THAT ARE CREATED FOR SPECIFIC MACHINERY OR EQUIPMENT TYPES. THESE ARE TYPE-C STANDARDS. A LIST OF THESE SPECIFIC STANDARDS CAN BE FOUND ON:  
[ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/machinery/index\\_en.htm](http://ec.europa.eu/enterprise/policies/european-standards/harmonised-standards/machinery/index_en.htm)

For more safety information, guidance and resources visit:

[www.machinesafetysolutions.com](http://www.machinesafetysolutions.com)

The information represented here, is to the best of our knowledge accurate at the time of print. Date: January 2015. SAFETY-QR004A-EN-P

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