

Documentation, guidelines and standards for new machines

The following provisions are part of Carborundum's General Terms and Conditions of Purchase. They apply to orders and deliveries of machines and specify requirements for the documentation to be provided and the guidelines and standards to be used, unless other written agreements have been concluded. In any event, the following provisions remain a minimum requirement.

1. General

Stand-alone machines and connected devices and related documentation must be designed in accordance with Directive 2006/42/EC (Machinery Directive MRLs, as currently in force, and in accordance with Government Regulation No. 176/2008 Coll., as amended). In addition, other directives, legislation and technical standards **must be applied** if they apply to the product in question.

The dossier must also be adapted to the relevant directive (e.g. ATEX Directive, EMC Directive, Pressure Equipment Directive, Low Voltage Directive, etc. in the relevant version in force).

2. Content of the dossier

The documentation for new machinery shall contain the following information (according to MLR 2006/42/EC):

- General description (machines)
- Overview drawing(s)
- Wiring diagram (pneumatic / hydraulic circuit diagram, electrical circuit diagram, P+I flow diagram)
- Risk assessment (according to ČSN EN ISO 12100) of the machine with indication of all hazardous places and corresponding measures (in the official language of the country where the machine is used)
- Safety inspection calculations (according to EN ISO 13849-1+2 in the official language of the user's country)
- List of residual hazards
- List of applied standards and directives
- Maintenance instructions, hydraulic plans, pneumatic plans
- Transport regulations, binding points, weight of equipment and its components
- Permissible load, energy consumption, specifications for power supply, required media (compressed air, intake, cooling media...)
- Static specifications of the installation site (statics)
- Specifications for room conditions
- Declaration of conformity (unless the machinery is partly completed)
- For incomplete machines:
 - o Declaration of Inclusion (specifying the essential requirements used and fulfilled according to Annex VII B TO MLR 2006/42/EC)
 - o Installation instructions (according to Annex VI to MLR 2006/42/EC)
- Owner's manual containing at least the following information:
 - o Manufacturer
 - o Marking (according to the machine designation)
 - o Intended use
 - o Warnings about abuse based on experience
 - o Protective measures and equipment
 - o Training and familiarization of operators
 - o Use, maintenance, repair, inspection
(in particular drawings, wiring diagrams, descriptions and explanations)
 - o Transport and storage
 - o Assembly, installation and connection (in particular by means of drawings and wiring diagrams)
 - o Commissioning and operation
 - o Setup, maintenance and service
 - o Troubleshooting
 - o Specifications of spare parts with safety or health related to be used
 - o Properties of mountable tools or workpieces
 - o Admissible workplaces
 - o Noise and vibration

3. Document languages

The scope of delivery includes all documentation at least in the official language of the user's country. (e.g. manufacturer in Italy, but user in the Czech Republic → all documentation must be supplied in Czech).

The operating instructions must also be supplied in English and, if necessary, in additionally in the languages specified in the order.

4. Document type

In any case, all documentation must be supplied 1x electronically in PDF format. In addition, all 3D data in stp format and all 2D data in dwg format, moreover, preferably on paper.

5. Guidelines and standards

For all orders placed by Carborundum, the following guidelines and standards must be strictly observed:

For example, Directive 2006/42/EC, Directive 2006/95/EC, Directive 2004/108/EC and all other Directives that apply to the product concerned.

- Required standards, whenever they exist: EN ISO 13854, EN 614-1, EN ISO 14120, EN ISO 4413, EN ISO 4414, EN ISO 14118, EN 14119, EN ISO 10218-1, EN ISO 10218-2, EN 746-1, EN746-2, EN ISO 16092 Part 1 to 4, EN ISO 11161, IN ISO 12100, IN ISO 13849-1, EN ISO 13849-2, IN ISO 13850, IN ISO 13855, V ISO 13857, EN 60204-1, EN 60825-1, ISO 13855, ISO 13851, ISO 14122-Part 1 to 4, EN 1127-1

Where other directives and/or (in particular harmonised) standards are applied, they must be listed separately. Directives and standards must always be applied in the currently valid version.

Documentation, guidelines and standards for used machines

The following provisions are part of Carborundum's General Terms and Conditions of Purchase. They apply to orders and deliveries of machines and specify requirements for the documentation to be provided and the guidelines and standards to be used, unless other written agreements have been concluded. In any event, the following provisions remain a minimum requirement.

1. General

Second-hand machinery manufactured in 1995 or later is subject to the then applicable Machinery Directive 98/37/EC or, if the used machinery is manufactured after 29.12.2009, the legal basis is the Machinery Directive 2006/42/EC.

In addition, other directives must be applied if they apply to the product concerned. Likewise, the documentation must be adapted according to the relevant directive (e.g.: ATEX Directive, EMC Directive, Pressure Equipment Directive, Low Voltage Directive, etc. in the relevant version in force).

2. Content of the dossier

The documentation of the machines used must contain the following information:

- General description (machines)
- Overview drawings
- Wiring diagram (pneumatic / hydraulic circuit diagram, electrical circuit diagram, P+I flow diagram)
- Specification of performance level according to EN ISO 13849 or control category according to EN954-1
- List of residual hazards
- List of applied standards and directives
- Maintenance instructions, hydraulic plans, pneumatic plans
- Transport regulations, binding points, weight of equipment and its components
- Connected load, power consumption, power supply specifications, required media (compressed air, intake, cooling media...)
- Static specifications of the installation site (statics)
- Specifications for room conditions
- Declaration of Conformity
- Operating instructions, containing at least the following information:
 - o Manufacturer
 - o Marking (according to the machine designation)
 - o Purpose of use
 - o Warnings about abuse based on experience
 - o Protective measures and equipment
 - o Training and familiarization of operators
 - o Use, maintenance, repair, inspection
(in particular drawings, wiring diagrams, descriptions and explanations)
 - o Transport and storage
 - o Assembly, installation and connection (in particular by means of drawings and wiring diagrams)
 - o Commissioning and operation
 - o Setup, maintenance and service
 - o Troubleshooting
 - o Specifications of spare parts with safety or health related to be used
 - o Properties of mountable tools or workpieces
 - o Possible workplaces
 - o Noise and vibration

3. Document languages

The scope of delivery includes all documentation at least in the official language of the user's country. (e.g. manufacturer in Italy, but user in the Czech Republic → all documentation must be supplied in Czech).

The operating instructions must also be supplied in English and, if necessary, in additionally in the languages indicated in the order.

4. Document type

In any case, all documentation must be supplied 1x electronically in PDF format. In addition, all 3D data in stp format and all 2D data in dwg format, moreover, preferably on paper.