

HORIBA Europe GmbH

Supplement to the Machine / Low-Voltage / Electromagnetic and RoHS Directives

1 Supplement to the Machine Directive 2006/42/EG

The vendor of HORIBA Europe GmbH has to draw up all documentation as defined by the EC Machine Directive 2006/42/EG complying with the applied harmonised Standard EN ISO 12100.

The risk assessment in conformity with Appendix VII Part A / B of the Machine Directive 2006/42/EG shall also be supplied including the description of the actions selected for preventing the risks emanating from the machine. Further, operating instructions in German shall be attached and the mandated noise emission parameters and vibration limits shall be calculated and documented.

The

- special technical documents in conformity with Appendix VII Part B,
- assembly instructions in conformity with Appendix VI,
- explanation of installation in conformity with Appendix II Part 1 Section B

shall be handed over for incomplete machines that come under the area of application of the 9th Ordinance of the Product and Equipment Safety Law (Machine Ordinance).

Safety components of controls shall be supplied with a risk assessment in conformity with DIN EN ISO 13849-1. The PL and DC achieved shall be defined and agreed with HORIBA Europe GmbH.

2 Supplement to the Low-Voltage Directive 2014/35/EU

The vendor / manufacturer shall carry out tests in conformity with the specifications of the assigned product standard. Where a product standard has not been assigned, a test has to be carried out in conformity with DIN EN 60204-1. The test protocol on electrical safety for machines (such as protective conductor or insulation resistance) shall be handed over to HORIBA Europe GmbH.

3 Supplement to the Electromagnetic Directive 2014/30/EU

> Emitted interference

It is necessary to comply with limit class A for ISM products (EN 55011 or EN 61000-6-4 and EN 61000-2-4 class 2) or ITE products (EN 55022).

> Immunity to interference

It is necessary to comply with the degree of severity for the industrial sector (EN 61000-6-2 and EN 61000-2-4 class 3).

It will be necessary to consult with the purchaser in each individual case if it is not possible to comply with the protective requirements demanded or if compliance means substantial additional expenditures.

4 Supplement to the RoHS Directive 2011/65/EU

> see RoHS specific requirements on HORIBA Webpage:

<http://www.horiba.com/de/automotive-test-systems/suppliers/rohs/>

For technical queries please contact the EQS – Environment, Quality & Safety – Department:

EQS-helpdesk.he@horiba.com .