

Application for operation of a laser device (laser class 3R, 3B and 4)			
General			
Exhibitor :		Hall no:	
Contact person:		Stand no:	
Postal address:			
E-Mail:			
Phone:			
Order number:		Ident-Nr:	
Number of laser devices on booth:			
Technical specifications of laser device #1 (Entries for further devices are possible on pages 3 and 4)			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Laser Safety Officer			
Laser Safety Officer for the exhibition stand:			
Phone:			
E-Mail:			
Please enclose proof of expertise / certificate of participation. Please tick where applicable:			
<input type="checkbox"/>	The laser safety officer is at the booth every time the laser is in operation.		
<input type="checkbox"/>	Employees at the booth have been instructed to the risks of laser radiation (according to §8 OStrV). Please have a proof of the instruction ready for inspection.		
<input type="checkbox"/>	The risk assessment is available for inspection at the booth.		
Information about laser safety			
Please tick where applicable:			
<input type="checkbox"/>	At the booth will be an audience accessible laser hazard zone with laser security precautions.		
<input type="checkbox"/>	There is no accessible laser zone on the booth, the laser device corresponds to laser class 1 or 2.		
<input type="checkbox"/>	The laser system is protected against unauthorized operation with a key switch or PIN.		
<input type="checkbox"/>	The laser system is equipped with a yellow / black emergency stop button.		
<input type="checkbox"/>	The laser system is equipped with a laser emission indicator.		
<input type="checkbox"/>	There are safety related doors or lids, which are equipped with interlock switches.		
<input type="checkbox"/>	There is laser safety glass, conditioned and marked visibly according to DIN EN 60825-4.		
<input type="checkbox"/>	For installation, there will be laser hazard zone around the machine. The laser radiation will be stopped by protective walls during the installation to avoid laser emission to the whole exhibition hall .		

Expert inspection

Compliance with all laser safety regulations (German OStrV and TROS Laser) will be checked at the exhibition stand by an expert appointed by the VDW General Commissariat.

Costs of inspection:

up to 2 devices	/ EUR 290,-
3 to 5 devices	/ EUR 550,-
6 devices and more	/ EUR 800,-

If the laser device does not comply with the laser regulations, it can be presented as a powerless demo device during the trade fair; expert costs will not be reimbursed.

Valid regulations are: NVStättVO, OStrV, TROS Laser, DIN 60825-1 (Safety of laser products), DIN 60825-4 (Laser guards)

The approval of the VDW – General Commissariat for the operation of a laser system on the exhibition grounds is only valid after presentation of the test certificate of the expert appointed by the VDW – General Commissariat.

On: Date / Time		
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I have taken note of the supplementary bulletin "Laser devices".

Place, Date

Company stamp and authorized signature of the exhibitor

Return by E-Mail to: laser-approval@emo-hannover.de

Appendix			
Technical specifications of laser device #2			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #3			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #4			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #5			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	

Technical specifications of laser device #6			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #7			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #8			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	
Technical specifications of laser device #9			
Application:			
	(e.g. laser show, laser marking, laser cutting, laser engraving, laser joining)		
Manufacturer of the device:			
Model of the device:			
Laser type:			
Wavelength (nm):		max. laser power (W):	
		or pulse energy (J):	
Laser class in operation:		Laser class in maintenance:	

Supplementary Bulletin

Laser devices

Supplementary to point 5.10.3, Technical Regulations of EMO Hannover 2019

Laser devices of the classes 3R, 3B und 4, being used for product presentations and/or advertising have to be registered in accordance with section 5, paragraph 1 of the accident prevention regulation 11 „Laser radiation“ (DGUV regulation 11)

The use of laser devices on the exhibition grounds Hannover is possible with the permission of the organizer (VDW - General Commissariat EMO Hannover 2019, Verein Deutscher Werkzeugmaschinenfabriken e.V. 2019) only. The following requirements apply:

- Written application to VDW - General Commissariat for the permission to use a laser device. ([download application form](#))
- Naming of Laser safety officer in accordance with DGUV regulation 11, § 6
- Verification of boundaries and marking of the laser area supplemented by drawing or photo in accordance with DGUV regulation 11, § 7
- Description of planned safety precautions according to DGUV regulation 11, § 8
- Verification of inspection on the stand and approval by a technical expert appointed by the VDW - General Commissariat. ([download application form](#))
- Marking of the system according to DIN EN 60825-1

According to DGUV regulation 11, §§ 2 & 6, the exhibitor must appoint a laser safety officer according to OStrV and TROS in writing for the operation of laser equipment of classes 3R, 3B and 4. Proof of qualification must be provided.

The exhibitor is responsible for assigning the laser safety officer the following tasks:

- Supervision of the operation of the laser device.
- Support of the exhibitor with regard to safe operation and necessary protective measures.
- Co-operation with qualified employees in compliance to its operational and safety related tasks and instruction on important matters relating to laser radiation protection.

The use of laser devices, classes 3R, 3B and 4 are subject to examination by a technical expert appointed by the VDW – General Commissariat, even if laser protection classes 1 and 2 are achieved by safety devices. The laser device may only be operated after all requirements of the technical expert have been adhered to.

In the event of infringements and violations, EMO General Commissariat reserves the right to take further measures and is entitled to interrupt the power supply to the stand until the defects have been rectified or until an acceptance has taken place.

The approval for the operation of a laser device from the VDW - General Commissariat will take effect after the submission of a test report issued by a technical expert appointed by the VDW – General Commissariat.

The exhibitor shall be liable to the VDW - General Commission for any personal injury or damage to property caused by the operation of the laser equipment, even if the exhibitor commissions a third party with the installation or operation.

For further query please use the following e-mail address:

laser-approval@emo-hannover.de

Supplementary Bulletin

Laser devices

Supplementary to point 5.10.3, Technical Regulations of EMO Hannover 2019

Security - Checklist

For a smooth acceptance of your exhibits and thus release for commissioning, it is important that the current technical and operational / organizational safety requirements are met. Therefore, please check at an early stage, if possible before the delivery of your exhibits, whether the criteria listed below can be fulfilled by you:

- The laser systems comply with the European safety regulations and have a CE declaration of conformity.
- The demonstration of the laser systems takes place in a secured area or in a suitable protective housing.
- During the demonstration of the laser systems all participants must wear laser safety goggles. Approved CE safety goggles are available for the laser systems.
- There are no harmful reflections in the intended solid angle of the laser radiation (e.g. due to reflective surfaces of mirrors, decorative material, etc.).
- An emergency stop switch for the laser systems is available.
- The entrances to the laser area are clearly visible and correctly signposted.
- The laser area and the public area are clearly separated from each other.
- The laser system is only operated under the permanent supervision of a qualified operator.
- A qualified laser safety officer can be named.
- A training certificate of the laser safety officer is available on site and can be presented on request.
- According to his own statement, the designated laser safety officer has the professional qualification and the technical prerequisites to be able to guarantee the safe operation of the show laser system.
- The personnel (internal and external) have been trained in safety engineering.

This list is not exhaustive. We therefore reserve the right to impose additional requirements if necessary.