



Messe  
Düsseldorf

## Leaflet: Shrink Guns

# Safety instructions for the use of hand shrinkers for shrinking foils

Any welding, cutting, soldering, defrosting and abrasive cutting must be personally notified prior to commencement and requires written permission from the Messe Düsseldorf Fire Service.

Such work may not be started until it has received clearance together with a written permit. Users must have their own suitable extinguishing agents ready for use in the immediate vicinity.

Under the provisions of the venue operator, the services of a fire watch must be purchased at the exhibitor's expense. Following trade fair company provisions, a firewatch must be ordered at the exhibitor's own costs.

The use of shrinkwrap and manual shrinking equipment with an open flame also requires the written permit specified in the first sentence of this paragraph. Only approved burners may be used for such work. Within the working area, a safe distance of at least 5 metres must be kept from any flammable objects, such as exhibits and stand construction materials.

Further requirements will be specified by the Messe Düsseldorf Fire Service.

### Workstation

- Clearance of min. 3 meters
- Distance to combustible materials of at least 5 metres (VdS 2000: 2010-12(04)).
- Workplace free of other packaging material.
- Sufficient fire extinguishers are to be installed within easy reach (VdS 2000: 2010-12 ((04)).
- Workplace must be well ventilated.

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- Hose to gas cylinder may be max. 8 meters long (BG regulations D34)
- There must be a minimum distance of 15 cm between the hand shrink unit and the film.

- Suitable pressure reducer with hose rupture protection must be used.
  - Combustible waste shall be removed continuously.
  - After completion of the welding work, inspect the film for glow residue, with follow-up inspection after half an hour (VdS 2000: 2010-12(04)).
  - Shrink units may only be operated by trained personnel (VdS 2199: 1998-09 (02)).
  - The visible flame must not exceed 15 cm from the protective sheath.
  - The flame must burn stably even during swiveling movements.
  - Hand shrink units must be designed in such a way that they automatically reduce the flame to its minimum setting or switch off the gas when they are put down by hand. It must not be possible to open the gas valve inadvertently when the shrink gun is put down.
  - If the primary air is influenced unintentionally, no dangerous change in flame must occur.
  - When using blowers on hand shrink units, it must be ensured, that first air and then gas flows out.
  - Transport trolleys for liquid gas operated hand shrink units must be equipped with a safety device to prevent the cylinder from falling over and constructed in such a way that gas cannot accumulate in dangerous quantities.
- There must be a facility which allows the easy and safe attachment or detachment of the Shrink gun.

### Recommendation

- Avoid open flames and use methods without open flame. (VdS 2199: 1998-09 (02)).
- Use stretch wrapping films or reusable tarpaulins.

### Examples of approved shrink guns

