



Cold Shrink Fitting

Heat expands metal and cold shrinks it. This principle is used in cold shrinking, which for many applications is the fastest method for making stronger metal connections such as mortise and tenon joints in mechanical engineering.

Liquid nitrogen at -196°C is an ideal cooling medium for shrinking shafts, drums or spigots, so that they fit perfectly into machines and equipment. Due to the fact that they expand again at room temperature an incredibly strong joint is created without any change to structure, colouring or oxide formation. Shrink fitting is the method of employing a cryogenic agent to shrink the shafts, tappets, or sockets, etc. so that fittings can be achieved that are far more cost effective than those achieved by heating the external components like gear wheels, housings, etc. Liquid nitrogen shrink fitting is one of the safest methods of assembly. The components will suffer no damage. Sometimes shrink fitting is the only possibility to connect different materials, which cannot be cemented, welded or soldered. Cryo Solutions is a specialist in cryogenic applications such as liquid nitrogen, tanks, open dewars and safety equipment and accessories. We can therefore help you with all your cold shrinking activities, both at a remote location or on site at your company.

Cryo Solutions is also available for:

- Delivering liquid nitrogen on location
- Rental or purchase of dispensing or liquid gas pressure vessel
- Rental or purchase of standard or special open dewars
- Safety equipment such as cryogenic gloves and oxygen detection equipment



Would you like more information or a quote for cold shrink fitting?

Please feel free to contact us. You can reach us by phone (+31)73 620 54 50 or via email at info@cryosolutions.nl

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Cryo Logistics for On-Site Liquid Gas Deliveries

Cryo Logistics is a special service provided by Cryo Solutions for the delivery of liquid Nitrogen gas- LiN and dry ice- CO2. We can supply between 8 and 1000 litres of liquid Nitrogen gas to a site per delivery with or without the additional hire of a liquid nitrogen vessel and safety articles such as cryogenic gloves and oxygen detection equipment.

We have a very wide range of applications available. These include standard biological storage applications, but also applications for cold shrinking, over clocking computers or molecular cooking. Many clients also find it useful to replace their cylinder packs with a liquid gas pressure tank, which provides the user with a constant supply of gaseous nitrogen.

Cryo Solutions is available for:

- Delivering liquid nitrogen on location in quantities of 8 to 1000 litres per delivery
- Rental or purchase of dispensing vessels with 25 to 50 litre dispensing devices
- Rental or purchase of liquid gas pressure vessels from 50 litres
- Rental or purchase of open dewars from 0.5 litres
- Special open dewars in various sizes (according to client specifications)
- Safety articles such as cryogenic gloves and oxygen detection equipment
- Support for projects and activities such as cold shrinking



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