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# User Guide

## *X100 Hand Crimper*

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**Crimping tool for low-pressure hose lines**



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# EC declaration of conformity for machinery

According to the EC Machinery Directive 2006/42/EC, Appendix IIA

We declare that the machine described in this document conforms to the relevant basic safety and health requirements of the EC (European Community) Machine Directive by its design and construction in the version presently marketed by us. This declaration will be null and void should any alterations be made to the machine without our express approval.

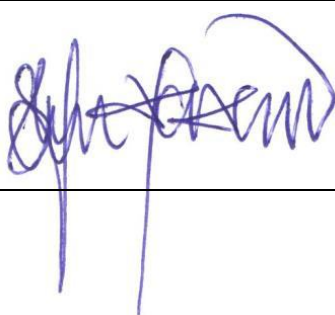
|                     |                                 |
|---------------------|---------------------------------|
| Machine type        | Low-pressure hose crimping tool |
| Machine number      | X100                            |
| Year of manufacture | 2016                            |

## Applicable EC Directives:

2006/42/EC                      EC Machinery Directive

## Applicable harmonized standards, in particular:

DIN EN ISO 12100 to      Safety of machinery, devices and equipment 1.2

|                                                                                     |                                                                                                                 |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
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|  |                                                                                                                 |

## Introduction

This instruction manual contains all instructions necessary for the proper use, operation, and maintenance of this crimping tool, and for the procurement of spare parts.

Please read these operating instructions carefully before using the equipment. By doing so, you will avoid problems with the unit and prevent damage that might be caused by incorrect operation.

The manufacturer will not be responsible for damage caused by failure to comply with the operating instructions.

The operation of the crimping tool can be dangerous. It is, therefore, important that only trained, experienced personnel be allowed to operate it. Persons under 18 are not allowed use it. However, it is permissible to allow people above the age of 16 to work with the tool if it is necessary to achieve training objectives and if there is supervision by a qualified person.

### **Notes on characters and symbols**

In the operating instructions, the following terms and symbols are used for particularly important information.

The associated text describes risks or hazards, the possibilities for preventing these risks and hazards, and the consequences of failure to observe safety regulations.



#### **Caution!**

This is a warning about a possible risk situation that could lead to injuries of mild or medium severity, as well as material damages if the associated safety instructions are not followed.



#### **Note!**

This is a reference to useful information for safe and proper handling.

The low-pressure hose crimper X100 is a robust and easy to use the device for the production of low-pressure hose lines.



#### **Caution!**

IMPROPER OR CARELESS use can result in injury.  
BEFORE YOU OPERATE this unit, you must read and understand this instruction manual. Keep this manual handy.  
The manual should be kept in a safe place.

### Description of functions

The low-pressure hose crimping tool X100 is manually operated and does not require electricity or compressed air for its operation.

The working pressure is generated by depressing the hand lever. The necessary force can be applied by any person of average strength using only one hand.

### Instructions for safe transport

When moving the unit, it is necessary to observe the relevant workplace safety regulations! When transporting the unit, do not walk backwards! Please observe the normal accident prevention regulations relating to the unit's weight. Make sure that the unit is not subjected to high-force impacts of any kind: such impacts can cause damage to parts of the unit.

### Installation

The low-pressure hose crimper X100 must be bolted in place on a stable, strongly built, level base.

Always make sure that you have enough space to work and are not hindered or endangered by adjacent equipment. There must always be good onsite workplace lighting that fulfills the requirements of any applicable national rules and regulations.



#### **Caution!**

A messy workplace or inadequate lighting can lead to accidents, Always keep your work area clean and make sure there is good lighting. Do not leave tools or other objects in the immediate work area.

Do not place the unit too close to the wall or to other machines or objects. The crimping press X100 is supplied ready for use. Before using, it must be bolted to a fixed workbench or another suitable base using M8 bolts



**Note!**

Before using the unit, make sure that it cannot tip over during use by anchoring it securely to the workbench or base  
Always ensure that there is adequate lighting before working with the unit.



**Caution!**

**Risk of injury!**

Do not interfere with the operation of the press. Never allow two persons to work at the machine simultaneously.

Watch out for excess material falling from the press. The falling material could injure your feet. Do not let any tools or other objects lie around in the immediate work area.

The preassembled hose can be loaded into the open crimping jaws from either the left or right side.

The downward movement of the hand lever crimps the sleeve uniformly, with a tight seal.

During operation, make sure that the crimping jaws are positioned correctly on the sleeve. Only in this way is it possible to ensure that the contact surface is optimal. Follow the specifications of the manufacturer of the fittings.

The design principle of the crimper eliminates the possibility of excessive crimping pressure that can ruin the hose.

The crimper comes standard with two sets of crimping jaws:  
one for hoses of DN3-8; and a second for hoses of DN10-16.

Changing the crimping jaws is done by loosening the 3 screws holding the cover (it is not necessary to remove the screws).

The cover can then be removed by turning it slightly.

The jaws can then be easily removed. Place the replacement set with the pins on the crimping jaws in the guide grooves of the cam disc. Replace the cover and tighten the three screws.

The interior of the tool does not need to be greased. It is enough to give it a little Teflon spray when changing the jaws.



## Guarantee

We guarantee the unit for 12 months from the date of delivery:

We guarantee:

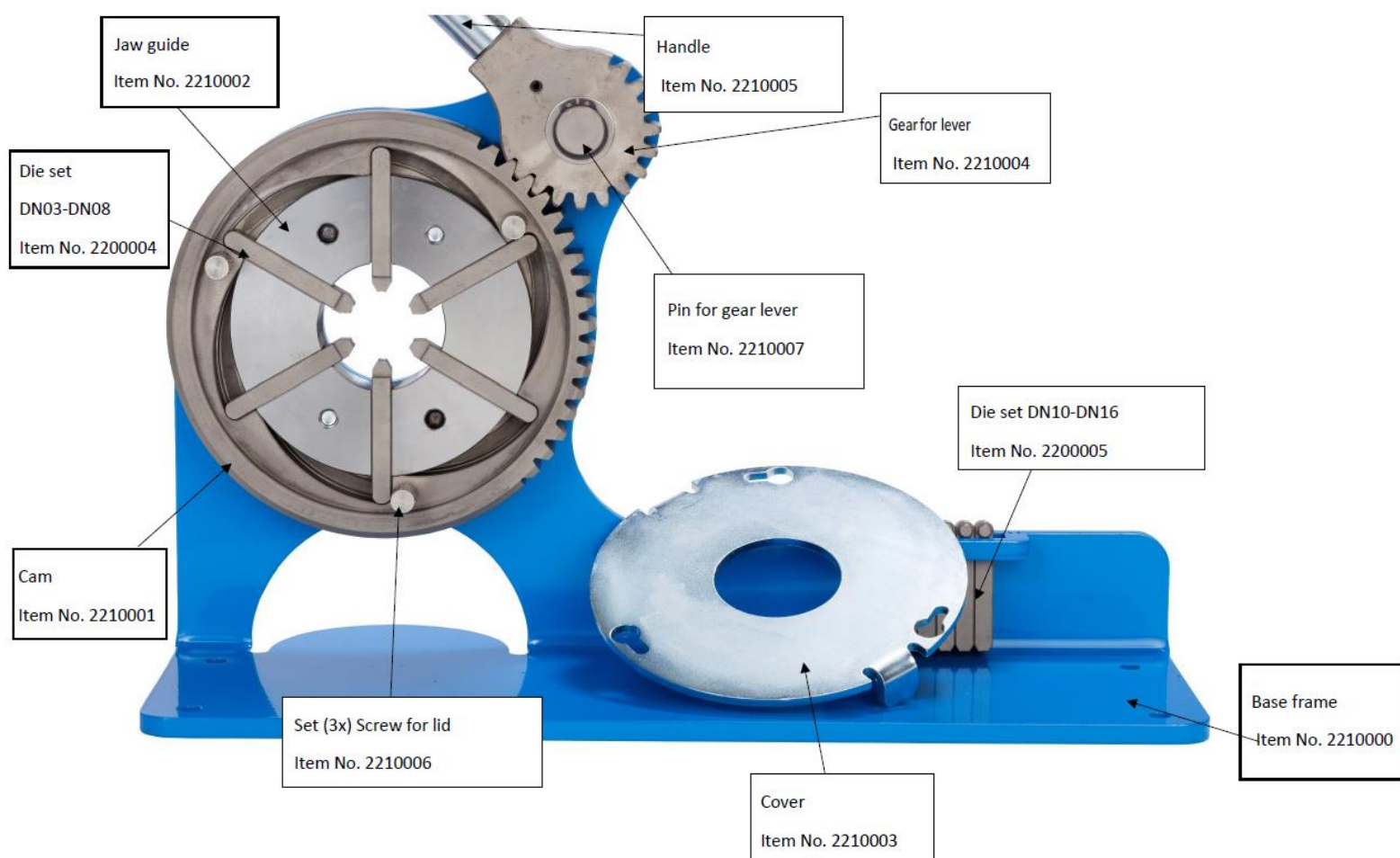
- a. that all materials and workmanship are without defects.
- b. that the assembly of the unit is done according to professional standards.

The warranty covers repair of the unit or parts of the unit. Warranty claims for free replacement will only be honored for parts with defects in materials or workmanship. All other claims are excluded.

Damage caused by normal wear and tear, damage from incorrect use or handling, and changes or additions to the unit that have not been approved by the manufacturer will result in loss of warranty coverage.

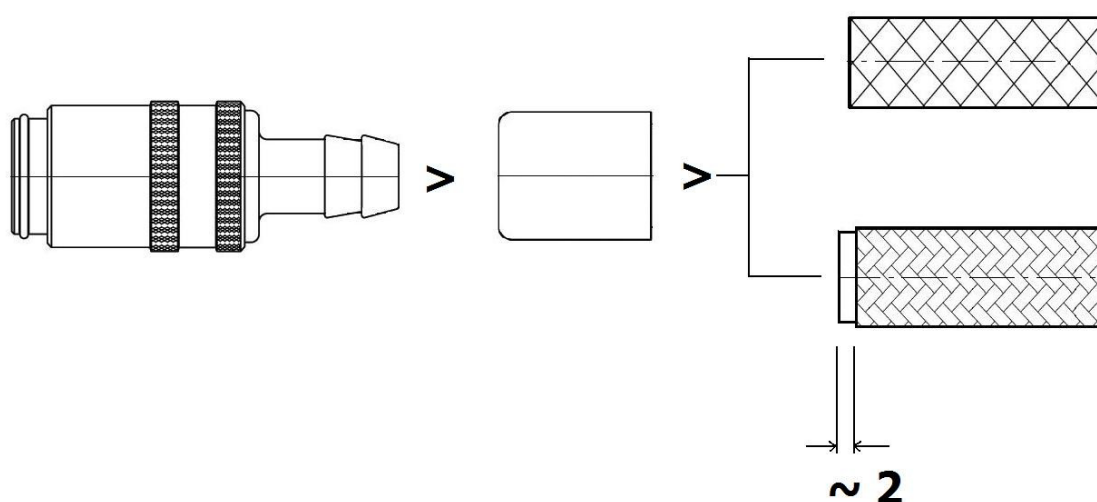
Spare parts

Order Example: X100-2200005 = Die set DN10-DN16



## Crimping Instructions:

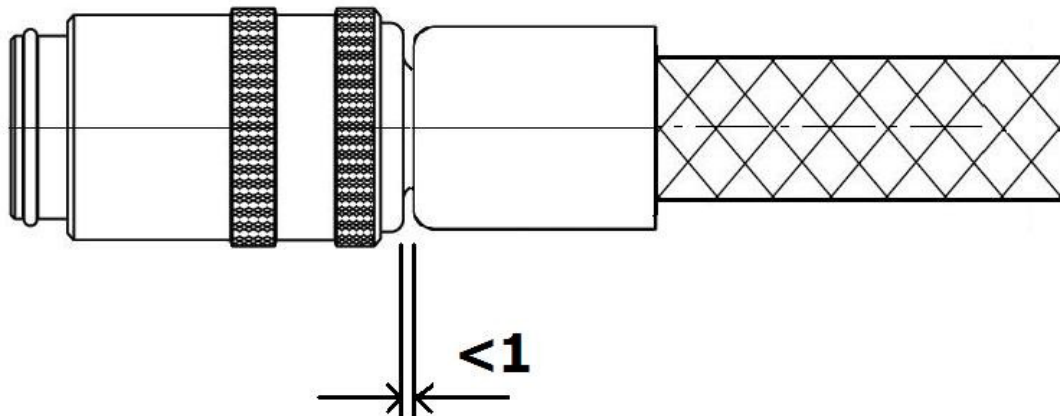
Fig. 1



## Pre-assembly of hose

- ☐ Cut hose neatly to required length.
- ☐ If braided hose - remove metal braiding by approx. 2mm.(fig. 1)
- ☐ Assemble coupling, crimping sleeve and hose in such a way, that front portion of the hose is resting firmly in the sleeve. *Please note that you should always use the smallest diameter sleeve, in order to achieve the best result.*
- ☐ The distance from the front of the sleeve to the coupling body should not exceed 1 mm. (fig. 2)

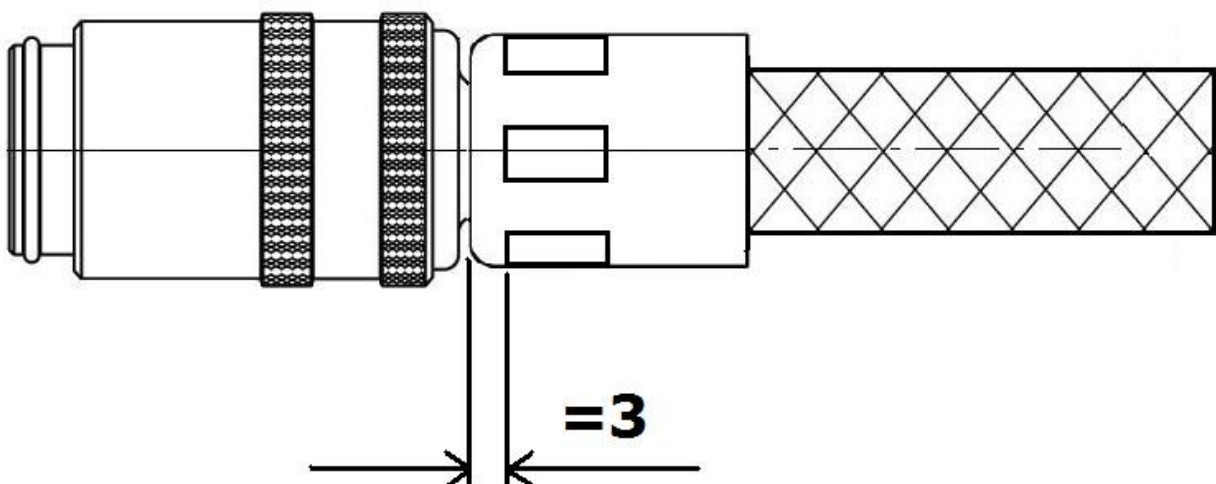
Fig. 2



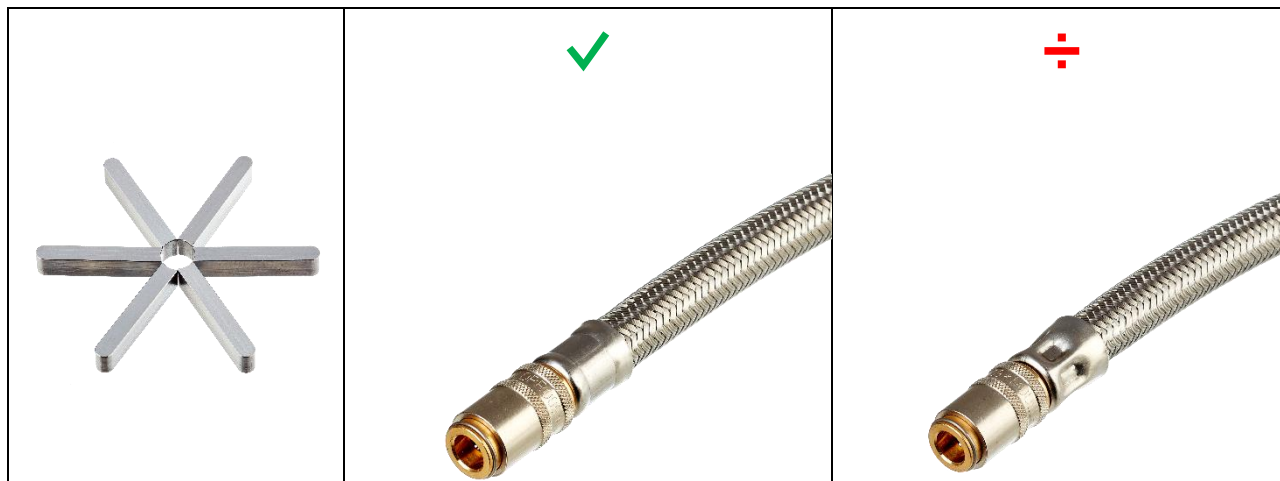
### Assembly of hose

- ☐ Clamp crimping tool to solid ground
- ☐ Insert pre-assembled hose into the crimping tool.
- ☐ Close crimping jaws slowly by pulling hand lever. The jaw grip should have a distance Of 3 mm from the front face of the sleeve (fig. 3)
- ☐ Push hose against the crimping sleeve.
- ☐ Pull hand lever and close crimping jaws until the crimping sleeve is crimped firmly into the hose make sure that the fittings cannot rotate inside the hose

Fig. 3



## Recommended Jaws for Mouldpro Hoses and Ferrules:



| Part No. | Crimp Diameter (mm) | Ferrule Ref | Hose Ref        |       |
|----------|---------------------|-------------|-----------------|-------|
| PCJ-16   | 16                  | C10/16      | S10/V10/P10/N10 | 1 set |
| PCJ-17   | 17                  | C10/17      | G10/E10         | 1 set |
| PCJ-20   | 20                  | C13/20      | S13/V13/P13/N13 | 1 set |
| PCJ-22   | 22                  | C13/22      | E13/G13         | 1 set |

### Description

Precision designed to give the perfect crimp everytime.

The Jaws are designed so they close completely around the ferrule without leaving gap for leaks. Use the Position Gauge in connection with X100 for the perfect result.



**Caution!**

Make sure to pressure test the assembled hose prior to use.

Change log

| Date of change | Change               | Version |
|----------------|----------------------|---------|
| 21-10-2019     | New Design           | 001     |
| 06-11-2019     | Spare parts list     | 002     |
| 19-04-2024     | Precision Jaws added | 003     |