

# GAZELLE®

## **G9636** Hydraulic Crimping Head User Manual



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## **1. Introduction**

- Before starting to use the tool please read the instruction manual carefully.
- Use this tool exclusively for its determined use.

Mounting and assembly of connecting material with the help of this tool must only be performed by specially trained personnel.

- The instructions should be kept properly during the entire lifetime of the tool. Visit [www.gazelleindustrial.com](http://www.gazelleindustrial.com) to download digital copy of user manual.

- The operator must

-guaranty the availability of the instruction manual for the user and

-make sure, that the user has read and understood the instruction manual.

## **2. Labels**

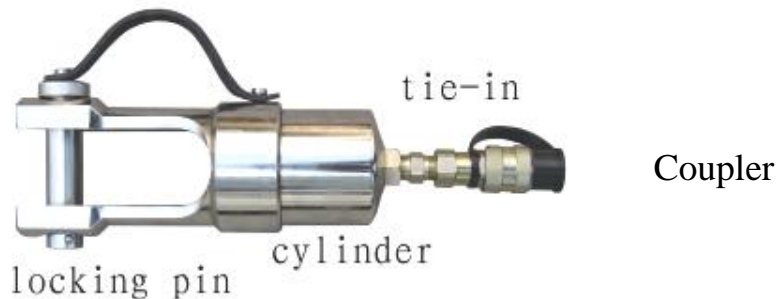
On the labels fixed on the unit you'll find the type specification, name of the manufacturer and the company logo. The serial number is on the hydraulic cylinder.

## **3. Warranty**

Each GAZELLE Hydraulic tools is warranted to be free from defects in material and workmanship under normal use and service unless stated otherwise herein. The warranty period for the main unit is one year and begins on the date of purchase. Parts, accessories, product repairs and services are warranted for 90 days, unless otherwise stated.

## 4. Description of the hydraulic crimping unit

### 4.1 Description of the components



### 4.2 Description of the crimping procedure

A crimping process is characterized by the closing motion of the dies. The cable lug or connector will be positioned in the stationary half of the crimping die. The piston will push the moving part of the die towards the compression point.

The crimping process is complete when the dies contact and the maximum operating pressure of the pump is reached.

## 5. Remarks with respect to the determined use

The pump must be positioned on an even surface with a max. angle of 15°. Operating of machine in an uneven surface can affect the performance of the device.

### 5.1 Operation of the unit

- 1) First you have to select the right dies for the intended application. Then connect the crimping head to the high-pressure hose and roll out the hose completely.
- 2) Insert the dies laterally and bring the crimping head into position.
- 3) Start the pump until the dies are completely closed.

The crimping process will proceed as described in chapter 4.2.

After the crimping process has been completed and the piston has been retracted, remove the connecting material from the crimping head.

## 5.2 Explanation of the application range

Table 2

Crimping range ( mm <sup>2</sup> )	Connecting material
10-400	Tubular cable lugs and connector Standard type
10-630	Copper cable lugs and connectors
10-500	Aluminum cable lugs and connectors
25-300	Compression joints for full-tension connections for conductors acc.to DIN 48201, sheet 6 and Al-conductors acc.to DIN 48201, sheet 5, 120-300 mm <sup>2</sup>
25/4-120/20	Compression joint acc.to DIN 48085 part 3 for Al-/Steel cables acc.to DIN 48204
10-240 sm 35-300se	Pre-rounding dies for Al-and Cu-Sector conductors
10-50	Solderless Terminals DIN 46234, Pin terminals DIN 46230
10-150	Insulated Terminals
16-300	Tubular cable lugs for fine-stranded conductors
4-50	C-clamps
10-150	Pre-insulated tubular cable lugs and connectors, insulated pin cable lugs
2x50-2x120	Double compression cable lugs
25-185	Cable-End sleeves

### **Attention**

***Only crimp copper and Aluminum connecting material or special connecting material which are mentioned in table 2.***

If different conducting materials need to be crimped, please contact the manufacturer.

**Attention: Do not use on or near live circuits.**

Before starting to crimp please make sure that all parts involved in the crimping process are not connected to live circuits.

The tool can be operated in a temperature range from -20°C to +50°C indoors and outdoors.

### 5.3 Mounting instructions

Table 3 Marking of the dies

	<b>Dies</b>	<b>Marking Outside</b>	<b>Marking crimping profile</b>	<b>Surface of the dies</b>	<b>Crimping Width [mm]</b>
a	"Standard type"	CU,"QS"	"QS"	chrome plated, yellow	10-20
b	DIN 46235/ DIN 46267	CU,"QS", DIN 46235	code number	chrome plated, yellow	10-17
c	Aluminum	AL,"QS",	code number	blue zinc	12-17
d	Compression joint	AL,"QS",	code number	blue zinc	12-14
e	Compression joints DIN 48085	AL, QS ST, QS	code number	blue zinc blue zinc	10-15 14
f	Terminals DIN 46234/46230	CU;QS, DIN 46234	"QS"	chrome plated, yellow	-
g	Insulated terminals	ISQ,QS	"QS"	chrome plated, yellow	-
h	Tub.CL for fine-str. conductors	F,QS	"QS"	chrome plated, yellow	-
i	C-clamps	C,QS	-	chrome plated, yellow	-
j	Pre-insulated tub. CL and connectors	IS,QS	"QS"	chrome plated, yellow	-
k	NI-TCL、 C	QS		chrome plated, yellow	-
l	Cable-end sleeves DIN 46228	AE,QS	-	chrome plated, yellow	-
m	Double WF	AE,2×QS	-	chrome plated, yellow	-
	WF Compression neutrons conductor	AE,QS	-	chrome plated, yellow	-
2*4- 2*16	Double Compression neutrons conductor	AE,2×QS	-	chrome plated, yellow	-

Abbreviations: CL-tubular cable lugs, AEH-cable end-sleeves, QS-Cross-section

If applications other than those mentioned in table 2&3 are intended to be performed with this tool it is necessary to contact the manufacturer.

With those dies mentioned in Table 3a only connectors "Standard type" are supposed to be crimped. Crimping of commercial cable lugs and connectors of other suppliers will not result in a perfect crimp.

The same is valid for conducting material table 3j. No guarantee can be given for crimping C-clamps of other suppliers.

Despite the same code numbers the compression width for copper and aluminum cable lugs and connectors is different. Besides the marking of the dies the surface plating also differs.

### **Attention**

***Even if the code number is identical only those dies should be used which are suitable for the material.***

## **5.4 Service and maintenance**

The hydraulic tool must be cleaned and dried after each use. The tool is maintenance free. After one year we recommend sending the tool in to the manufacturer for an inspection.

Within the determined use of the tool only the dies (Pos.-No.2+3) are permitted to be changed by the customer.

Do not attempt to repair the tool yourself, and do not remove any parts such as screws and other components.

## **6. Troubleshooting**

- The tool loses oil.



=> Return the tool to the manufacturer. Do not open the tool.

## 7. Technical data

Crimping force:	250kN
Stroke:	20mm
Rated pressure:	700bar
Crimping capacity:	Max Cu 630mm <sup>2</sup> / Al 500 mm <sup>2</sup>
Weight:	5.5kg
Dimensions:	36*13*13cm

## Symbols

### **Safety warnings**



***Please do not disregard these instructions in order to avoid human injuries and environmental damages.***



### **Operational warnings**

***Please do not disregard them to avoid damaging the pump unit.***



We shall in no event be liable for death, injuries to persons or property from the improper use and lack of maintenance of our product. Any doubt of safety operation and precaution, please contact with our distributor.



Please properly dispose of all packing materials and removed parts.

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