

QUALITY

INTELLIGENT DESIGN

EXCELLENCE

PARTNERSHIP

INTEGRATED SOLUTIONS



GOLDENCRIMP 420

 **manuli**<sup>®</sup>  
HYDRAULICS

# Why Manuli?

*Manuli Hydraulics is focused on achieving excellence in the design, manufacture and supply of fluid conveyance solutions, components and associated equipment for high pressure hydraulics, refrigeration, industrial and oil and marine applications.*

# Versatility Com

*Manuli Hydraulics ass  
users get the best r*

*The GoldenC  
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*Quality and sustainable development are the driving forces of all Manuli Hydraulics' activities, with an aim to guarantee worldwide availability of technical and commercial support for it's products and services.*



## An integrated approach

Modern applications require robust fluid connector solutions with guaranteed long lasting performance. To that end, Manuli Hydraulics offers a complete range of hoses, fittings and assembly equipment which are designed to work seamlessly together. This harmonised approach allows us to guarantee the quality and performance of hose assemblies in a way that others simply cannot match.

From design to manufacture and assembly, our commitment to this unified philosophy makes us the global leader in providing integrated solutions for fluid connector applications.



## Combined with Extreme Durability

Assembly machines are part of an integrated product range, designed to ensure results and maximum benefits from their Manuli hoses and fittings.

Crimp 420 is the latest addition to the range of assembly machines. It has the resilience required for field repairs in harsh environments with stability that is vital in modern workshops.



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# GOLDENCRIMP 420



**Providing reliability and versatility in harsh environments, the GoldenCrimp 420 crimping machine is the perfect addition to any field repair workshop. With a wide range of features designed to facilitate operation, location and maintenance, the GoldenCrimp 420 sets the standard for field repair and assembly equipment.**

- Robust design for transport and operation in harsh environments such as open-pit and underground mining
- Protected cylinders for trouble-free operation in high dust environments
- High crimping force of 420 tons
- Split design architecture allows for easy handling and transportation
- Large opening suitable for large bore hoses
- Extensive range of dies to suit crimping of both industrial and hydraulic hoses
- Easy die setup with ergonomically designed quick-change gun
- Hands-free operation using footswitch
- Option for convenient die storage table
- Easy access for maintenance
- Long master dies
- Low noise level
- Easy maintenance due to foam pads and dust collector



Optional die storage table

## Multiple Configuration Options

The GoldenCrimp 420 has been designed in a way that allows you to decide which is the most appropriate configuration for your workshop. This allows you to make the most of the space available, and makes the GoldenCrimp 420 suitable for changing environments.



### Standard Configuration

When in its standard configuration the GoldenCrimp 420 is a convenient, self-contained unit with the crimping head set at an ergonomically optimal height to allow safe, comfortable working.

Combined with a minimal unit footprint, the GoldenCrimp 420 can be easily positioned wherever it is required with only electrical connection required.



### Space Saving Configuration

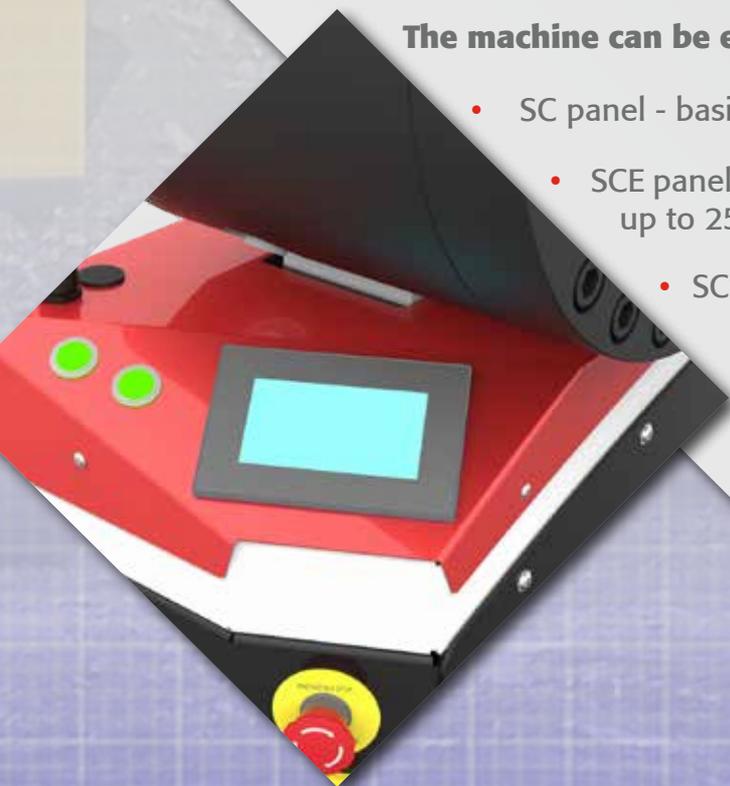
In some workshops space is more restricted, so for these situations the crimping head of the GoldenCrimp 420 can be detached from the power-pack and placed separately on the work bench so taking up the minimum of available space.

The power-pack can then be located under the bench, in a corner or wherever is most convenient to keep it safely out of the way.

## Control Panel Options

The machine can be equipped with a choice of three control panels:

- SC panel - basic Smart Control panel
- SCE panel - electronic micrometer with the ability to save up to 25 configurations
- SCS panel - Safe Crimp System which includes the integration of the Manuli Hydraulics fluid connectors assembling parameters



# GoldenCrimp 420

For field repair in harsh environments

Benchtop Crimping Machine

## Key Features

- Designed for extreme robustness and ease of maintenance
- Multiple configurations to make optimum use of available workspace

## Technical Specifications

|                             |  |
|-----------------------------|--|
| <b>Unit Dimensions</b>      | 765 x 500 x 800 mm<br>(30 x 20 x 32 inch)  |
| <b>Packaging Dimensions</b> | 745 x 1150 x 945 mm<br>(29 x 45 x 37 inch) |
| <b>Net Weight</b>           | 395 kg (871 lb)                            |
| <b>Power Requirements</b>   | 380/415 V, 3 PH, 50 Hz                     |
| <b>Capacity</b>             | 3" 6SP                                     |
| <b>Motor</b>                | 5,5 kW                                     |
| <b>Noise Level</b>          | < 65 dB                                    |

|                          |  |
|--------------------------|--|
| <b>Crimp Range</b>       | 4 - 130 mm<br>(0.157 - 5.118 inch)   |
| <b>Crimp Force</b>       | 420 t  |
| <b>Opening with Dies</b> | +48 mm (+1.9 inch)   |
| <b>Complete Opening</b>  | 178 mm (7.0 inch)  |
| <b>Master Die Length</b> | 120 mm (4.724 inch)  |
| <b>Die Sets</b>          | 25 die sets - see summary table<br>for details ( <i>ordered separately</i> ) |

## Hose and Fitting Selection

| Hose Type                 | Fittings Type  | Max. Hose Size | Ref. Hoses   |
|---------------------------|--|----------------|--|
| 2 wire braids and textile | MF2000 Multifit  | 4"             | Harvester; Lyteflex; Pilot; Cover; Equator;<br>Rockmaster braided; Shieldmaster braided;<br>Astro; Multitex; Hydroplast; Spirtex/K |
| 4 wire spirals            | MF200 Multifit,<br>MF2000 Interlock Plus;<br>MF2000 Spiralfit  | 3"             | Rockmaster spiral; Shieldmaster spiral;<br>GoldenIso Xtraflex; Xtraflow/4WS; Goldenblast   |
| 6 wire spirals            | MF2000 Interlock<br>Plus; MF2000 Xtralock;<br>MF2000 Spiralfit | 3"             | Diamondspir/21 up to 3"; Rockmaster/13;<br>Rockmaster/15; Goldenblast/six  |
| 6 wire spirals            | MF2000 Interlock super;<br>MF2000; Spiralfit-GX                | 2"             | Hercules/HT, GoldenIso/42 Xtraflex; Cryoflex/42  |
| 8 wire spirals            | MF2000 Interlock Super   | 1"1/2          |  |
| Industrial Textile Hoses  |  | 4"             | Spirtex/K; Others  |

## Available Die Sets

| Product Code         | Description                      | N° | Crimp Range | Die Length (mm) | Die Length (inch) |
|----------------------|----------------------------------|----|-------------|-----------------|-------------------|
| ESA3220NL56-10       | Die set n. 10 - length 56 mm     | 10 | 10-12       | 56              | 2.205             |
| ESA3220NL56-12       | Die set n. 12 - length 56 mm     | 12 | 12-15       | 56              | 2.205             |
| ESA3220NL56-15       | Die set n. 15 - length 56 mm     | 15 | 15-18       | 56              | 2.205             |
| ESA3220NL56-18       | Die set n. 18 - length 56 mm     | 18 | 18-21       | 56              | 2.205             |
| ESA3220NL56-21       | Die set n. 21 - length 56 mm     | 21 | 21-24       | 56              | 2.205             |
| ESA3320N140-24       | Die set n. 24 - length 70 mm     | 24 | 24-27       | 70              | 2.756             |
| ESA3320NL90-27       | Die set n. 27 - length 90 mm     | 27 | 27-30       | 90              | 3.543             |
| ESA3320NL90-30       | Die set n. 30 - length 90 mm     | 30 | 30-33       | 90              | 3.543             |
| ESA3320NL90-33       | Die set n. 33 - length 90 mm     | 33 | 33-36       | 90              | 3.543             |
| ESA3320NL90-36       | Die set n. 36 - length 90 mm     | 36 | 36-39       | 90              | 3.543             |
| ESA3320NL90-39       | Die set n. 39 - length 90 mm     | 39 | 39-42       | 90              | 3.543             |
| ESA3320NL90-42       | Die set n. 42 - length 90 mm     | 42 | 42-45       | 90              | 3.543             |
| ESA3320N100-45       | Die set n. 45 - length 100 mm    | 45 | 45-48       | 100             | 3.937             |
| ESA3320NL100-48      | Die set n. 48 - length 100 mm    | 48 | 48-51       | 100             | 3.937             |
| ESA3320N110-51       | Die set n. 51 - length 110 mm    | 51 | 51-57       | 110             | 4.331             |
| ESA3320N110-57       | Die set n. 57 - length 110 mm    | 57 | 57-62       | 110             | 4.331             |
| * ESA3440NL125D062L4 | Die set n. 62 - length 125 mm    | 62 | 62-66       | 125             | 4.921             |
| * ESA3440NL125D066L4 | Die set n. 66 - length 125 mm    | 66 | 66-70       | 125             | 4.921             |
| * ESA3440NL125D070L4 | Die set n. 70 - length 125 mm    | 70 | 70-73       | 125             | 4.921             |
| ESA3330NL100D072L2   | Die set n. 72 - length 100 mm    | 72 | 72-73       | 100             | 3.937             |
| ESA3540N125-73       | Die set n. 73 - length 125 mm    | 73 | 73-76       | 125             | 4.921             |
| ESA3540N125-76A      | Die set n. 76 - length 125 mm    | 76 | 76-86       | 125             | 4.921             |
| ESA3540N135-82       | Die set n. 82 - length 135 mm    | 82 | 82-90       | 135             | 5.315             |
| ESA3540N125-90       | Die set n. 90 - length 125 mm    | 90 | 90-95       | 125             | 4.921             |
| ESA3540N12595        | Die set n. 95 - length 125 mm    | 95 | 95-105      | 125             | 4.921             |
| ESA3330N450KT        | Kit 13 dies GC420 (n.15 to n.73) | -  | -           | -               | -                 |
| ESA3330N450KTF       | Kit 19 dies GC420 (n.15 to n.76) | -  | -           | -               | -                 |

\* To be mounted without intermediate dies

## Ordering Information

| Description                           | Voltage          | Product Code      |
|---------------------------------------|------------------|-------------------|
| GoldenCrimp 420 SC without dies       | 415V, 3PH, 50 Hz | EOA3324NMGC420SC  |
| GoldenCrimp 420 SCE without dies      | 415V, 3PH, 50 Hz | EOA3324NMGC420SCE |
| GoldenCrimp 420 SCS without dies      | 415V, 3PH, 50 Hz | EOA3324NMGC420SCS |
| Wall mounted rack for extra dies sets |                  | ESA3220NT140401   |
| Ergonomic table                       |                  | ESA3220NET        |



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