

## MINIFORCE - next generation

*"Smart thinking and fully fledged mechanical solutions have enabled us to create the unbeated tool for crimping terminals.*

*Minimal hand force on the handle produces one tonne of pressure in the jaws, a revolutionary improvement on previous tools."*



Product catalogue

**Miniforce hand tool**





# MINIFORCE

## - next generation

- certified tool - Elpress crimping system - for easier quality assurance
- 30% lower hand force than previous version
- wider opening of fork for easier access
- good ergonomic design for better comfort
- tested with Elpress connectors and terminals
- adjustable after long time use
- special rubber tip on handle for optimized support when using a surface to crimp
- hand shake position of the handle
- 80.000 crimps before calibration
- stronger crimping head - bigger crimp possibilities
- ratchet release if the crimping cycle must be interrupted





# MINIFORCE – hand tools for pre-insulated and un-insulated terminals

## Mechanical hand tools

When developing crimping tools at Elpress, we strive to ensure the best quality and ergonomics for the tools themselves, along with the best properties for the crimped terminal. The Miniforce tools have a full closure, ratchet mechanism which ensures completion of the entire crimping operation.



## Miniforce tools

The unique Miniforce range of tools has established a new level in terms of ergonomics adaptation to users and low force requirements. This has resulted in a reduction of up to 30% in force on the handles of new Miniforce Gxx tools compared with the earlier Exx range. This is the result of an advanced development process governed entirely by keeping the risk of injury to a minimum and striving to achieve the best ergonomics. Miniforce type C tools have longer handles to facilitate a two-handed grip, often a simple and natural way to reduce loads.



Elpress tools and terminals together constitute a crimping system in which the results are checked on an ongoing basis against requirements in established standards such as IEC60352-2, SEN245010, DIN46429, BS4579:1, etc.

Many of the company's manual tools have symmetrical crimp die nests which make it possible to work from both sides - a feature certainly appreciated by left-handed users. All tools type G, and D are produced from high grade steel with black finish surface and comprehensive laser markings.

## Certification of crimp tools

We have a unique certification of our crimping tools - Gxx type, i.e. our Miniforce tools, and types Exx and Dxx - right from the time of manufacture in order to guarantee the quality of our tools.

### What is certified?

The certification of Elpress crimp tools comprises individual documentation from final assembly and inspection regarding:

- **handle pre-load** - which is the force needed to release the crimp completion ratchet.
- **crimp die nest heights**, which means each of the greatest nest heights to be measured with completely closed dies.

### Why certification?

The certificate that accompanies the tool has several functions:

- New crimp tools are often immediately introduced into a QA system. The tool status before use is then of course to be the first log entry. Later periodic inspection recordings may then form base for detection of changes or wear and of possibly necessary corrective actions.
- The certificate shows that each individual tool meets the design specifications before supply.
- The certificate indicates the most important tool properties to be followed up.

The Elpress service department offers the option of continuing follow-up of tool.



Certificates supplied with each tool. If a tool has been certified, this means it has undergone 100% quality control. That means, all tools have been inspected in respect of handle pre-load force and crimp die nest heights in order to provide a terminal which is in accordance with requirements in established standards.



Production station for measuring crimp die nest heights.





# Certified Miniforce tools for pre-insulated terminals 0.5 - 6 mm<sup>2</sup> and end terminals 0.25 - 4 mm<sup>2</sup>

## Technical data:

- unique mechanism that reduces maximum handle force with 30% than earlier Exx version
- ratchet system to guarantee a fully closed crimp
- release mechanism if the crimping sequence must be interrupted
- symmetrical and distinctly laser marked die nests
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals
- weight 0,43 kg (0,49 kg, type C), length 203 mm (256 mm, type C), width 76 mm (80 mm, type C)
- ergonomically designed handles to fit all users
- optimises the quality of the crimp result
- reduces the risk for repetitive strain injuries (RSI)
- light and handy design without reduction in durability
- type C has extra long handles for two hand grip
- at least 80 000 crimps before calibration

GSEA0340C



Crimp types



GSW0560C



Crimp type



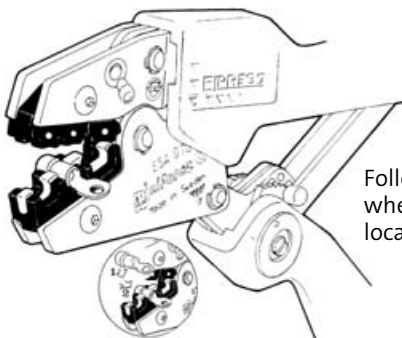
GSA0760



Crimp type



GSA0760 locator



Follow the sequence (1) and (2) when placing the terminals into the locator.

**Crimp range 0.25 - 4 mm<sup>2</sup>**

## GSEA0340C

Miniforce combination crimp tool for crimping of both;

- pre-insulated terminals 0,5 - 2,5 mm<sup>2</sup> and
- pre-insulated and un-insulated end terminals 0,25 - 4 mm<sup>2</sup>

**Crimp range 0.5 - 6 mm<sup>2</sup>**

## GSW0560C

Miniforce crimp tool for through connectors with heat shrink insulation type SKW. Dies nest specially designed for crimping of A1525SK, A2527SK and 4652SK with heat shrink insulation. Use of other tools will destroy/harm the insulation leave un-insulated openings direct to the terminal.

## GSA0760 and GSA0760C

Elpress Miniforce crimp tools for symmetrical crimping of pre-insulated terminals 0,5 - 6 mm<sup>2</sup>.

## Particulars:

- locator to hold the terminal in the right position when crimping which simplifies the installation
- die calibration is easily performed with the gauge ESAQ 0760
- Die nests leave imprints on terminal insulation sleeve after crimp to show nest size and Elpress logotype for system identification

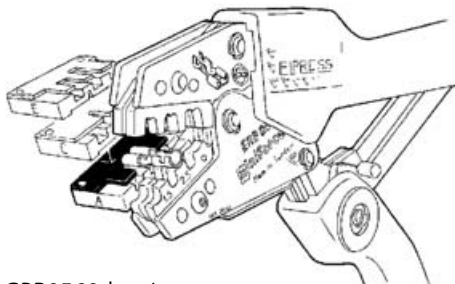


# Certified Miniforce tools for un-insulated terminals 0.5 - 10 mm<sup>2</sup>

GRB0560L



Crimp type



GRB0560-locator.

## Technical data:

- unique mechanism that reduces maximum handle force with 30% than earlier Exx version
- atchet system to guarantee a fully closed crimp
- release mechanism if the crimping sequence must be interrupted
- distinctly marked die nests
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals
- weight 0,43 kg (0,49 kg, type C), length 203 mm (256 mm, type C), width 76 mm (80 mm, type C)
- ergonomically designed handles to fit all users
- optimises the crimp quality
- reduces the risk for repetitive strain injuries (RSI)
- light and handy design without reduction in durability
- type C has extra long handles for comfortable two-hand grip
- at least 80.000 crimps before calibration

Locator	Marking
A	1. B1507FLS1 B1507FLSN
	2. B2507FLS1 B2507FLSN
	3. B4607FLSN B4607FLS1
C	1. B1507H
	2. B2507HN
	3. B4607HN
E	1. B1505FLS (5 or 8) -1
	2. B2505FLS (5 or 8) -1

## Crimp range 0.5 - 6 mm<sup>2</sup>

### GRB0560L and GRB0560LC

Elpress Miniforce crimp tools for roll crimping of un-insulated terminals.

Type L crimp tools are supplied with **three exchangeable locators** for receptacle terminals (see table).

Type LC has **locators** and long handles.

#### Particulars:

- supplied in a practical and rigid plastic box
- the L and LC type tool has locators - your "third hand" - to hold the terminals in the right crimp position, which simplifies quality performance considerably

GRB0560



Crimp type



GWB4099



Crimp type



### GRB0560 and GRB0560C

Elpress Miniforce crimp tool for roll crimping of un-insulated terminals. Equals the above L and LC tools but do not have locators or carry box.

## Crimp range 4 - 10 mm<sup>2</sup>

### GWB4099 and GWB4099C

Miniforce crimp tools for W-indent crimping of un-insulated, closed barrel ring, fork, pin and tube terminals and connectors as well as tube terminals and through connectors type KR and KS.

Type C with long handles.



Certificate FM20987  
ISO 9001



# Certified Miniforce tools for end terminals (ferrules) 0.1 - 6 mm<sup>2</sup> and TWIN end terminals 2x0.5 - 2x10 mm<sup>2</sup>

## Technical data:

- unique mechanism that reduces maximum handle force with 30% than earlier Exx version
- ratchet system to guarantee a fully closed crimp
- release mechanism if the crimping sequence must be interrupted
- distinctly marked die nests
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals according to DIN requirements
- weight 0,43 kg (0,49 kg, type C), length 203 mm (256 mm, type C), width 76 mm (80 mm, type C)
- ergonomically designed handles to fit all users
- optimises the crimp quality
- reduces the risk for repetitive strain injuries (RSI)
- light and handy design without reduction in durability
- type C has extra long handles for comfortable two-hand grip
- at least 80.000 crimps before calibration

## Self setting crimp range 0.1 - 6 mm<sup>2</sup>

### EEB0160

Miniforce **self-setting** tool for crimping pre-insulated and un-insulated end terminals 0.1 - 6 mm<sup>2</sup> and pre-insulated TWIN end terminals 2x0.5 - 2x4 mm<sup>2</sup>.

#### Particulars:

- only one crimp nest, which automatically sets to the appropriate size for the end terminal crimped
- front feed
- accepts crimp lengths up to 20 mm

EEB0160



Crimp type



## Crimp range 4 - 10 mm<sup>2</sup>

### GEB4010C-TWIN

Miniforce tool for crimping of pre-insulated TWIN end terminals.

GEB4010C-TWIN



Crimp type





# Certified Miniforce tools for end terminals 4 - 50 mm<sup>2</sup>

## Technical data:

- unique mechanism that reduces maximum handle force with 30% than earlier Exx version
- ratchet system to guarantee a fully closed crimp
- release mechanism if the crimping sequence must be interrupted
- distinctly marked die nests
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals according to DIN requirements
- weight 0,43 kg (0,49 kg, type C), length 203 mm (256 mm, type C), width 76 mm (80 mm, type C)
- ergonomically designed handles to fit all users
- optimises the crimp quality
- reduces the risk for repetitive strain injuries (RSI)
- light and handy design without reduction in durability
- type C has extra long handles for comfortable two-hand grip
- at least 80.000 crimps before calibration

GEB4010



Crimp type



**Crimp range 4 - 10 mm<sup>2</sup>**

## GEB4010 and GEB4010C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.

GEB0616C



Crimp type



**Crimp range 6 - 16 mm<sup>2</sup>**

## GEB0616C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.

GEB1025



Crimp type



**Crimp range 10 - 25 mm<sup>2</sup>**

## GEB1025 and GEB1025C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.

GEB3550



Crimp type



**Crimp range 35 - 50 mm<sup>2</sup>**

## GEB3550 and GEB3550C

Miniforce crimp tool for crimping pre-insulated and un-insulated end terminals.



Certificate FM20987  
ISO 9001

