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Mechanical hand tools

High quality, crimp performance and ergonomics are prime considerations of Elpress when developing mechanical crimp tools. Except for the hobby tools, all Elpress crimp tools have a full closure, ratchet mechanism to ensure correct crimps at all instances - a prerequisite for professional and quality assured work.

With the unique **Miniforce** range of crimp tools, a new level of performance was established when speaking of ergonomic adaptation to the user and of low handle forces needed. A reduction of required force up to 45% is reached as a result of advanced ergonomic studies where minimised risk for work discomfort or even injuries was the main objective.

Miniforce type C has extra long handles for an easy two-hand grip which in most cases represents a simple and natural way of lowering work loads.

Elpress tools and terminals/connectors together form a Crimp System where the crimp results are supervised to meet requirements of established standards like SEN 245010, DIN46249 and other.

Many of the most common tools have symmetrical crimp die nests to enable crimps from both tool sides - a feature certainly appreciated by left-handed users.

All Miniforce type E- and D-tools are produced from high grade Swedish steel with black finish surface and comprehensive laser markings.



The ergonomic Elpress Miniforce tool.

Certification of crimp tools

Elpress has introduced a unique certification of all crimp tools of E- (Miniforce) and D-type.

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.

CERTIFIKAT CERTIFICATE			
Detta certifikat anger de viktigaste ställningsvärdena för det aktuella verktygets prestanda, mått och handkraftspänning. Dessa mått blir fortfarande kontrollerade under verktygets användning.		This certificate states the important initial values for the crimp tool height and the handle pre-load of this tool. These values should be currently checked during the use of the tool.	
Verktyg typ serier	ESA 0760 E-845658	Stad seriel no.	
	Mått / Measured	Tillåtet / Accepted	
Handkraftspänning	195 N	170 - 230 N	Handle pre-load
Prestanda mått, crimp	2.31 mm	2.20 - 2.40 mm	Max. crimp nest height
Mått	2.72 mm	2.65 - 2.85 mm	Blue
guld	3.41 mm	3.35 - 3.55 mm	Yellow
SPECIFIKATIONER OCH MÄTNING		SPECIFICATIONS AND MEASURING	
1. Fjäderkraften mätts 40 mm från handkraftspunkten. Mätinstrumenten kalibreras löpande spårat mot internationell standard, certifikat nr 56-789.		1. The handle pre-load is measured 400 mm from handle end. The measuring equipment is regularly calibrated against an internationally traceable standard, certificate no. 56-789.	
2. Prestanda mått mätts mitt i det föregående utgått. Mätinstrumenten kalibreras löpande spårat till internationell standard, certifikat nr 3089656A.		2. The crimp nest height is measured in the middle of the pre-loaded nest. The measuring equipment is regularly calibrated against an internationally traceable standard, certificate no. 3089656A.	
Datum / date	30 April, 2001		
Signatur / signature	Derek Svensson		
Elpress AB P.O. Box 106 SE-211 14 Västerås Sweden	Tel +46-02042 71 70 Fax +46-02042 71 71 E-mail miniforce@elpress.se Webb www.elpress.se		

Elpress certificate.

Hobby tools for crimping terminals 0.5 - 6 mm² and for cutting and stripping

Technical data:

- manufactured from high-class steel and with semi-soft handles
- die nests are distinctly marked
- no full closure ratchet
- cuts up to 6 mm²
- strips up to 6 mm²
- bolt-cutter M2,5 - M5
- weight 0,20 kg, length 225 mm

Crimp range 0.5 - 6 mm²

T50

Elpress hobby tool.

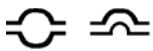
Particulars:

- crimps pre-insulated terminals 0,5 - 6 mm² and indent crimps un-insulated, closed barrel terminals 1,5 - 6 mm²
- red, semi-soft handles for optimal comfort
- stripping and bolt cutting functions

T50



Crimp types



T51

Elpress hobby tool.

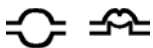
Particulars:

- crimps pre-insulated terminals 0.5 - 6 mm², and roll crimps open barrel un-insulated terminals 0.5 - 2.5 mm²
- yellow, semi-soft handles for optimal comfort
- stripping and bolt cutting functions

T51



Crimp types



T52

Elpress hobby tool.

Particulars:

- roll crimps un-insulated, open barrel, un-insulated terminals 0.5 - 6 mm²
- green, semi-soft handles for optimal comfort
- stripping and bolt cutting functions

T52



Crimp type



Certified crimp tools for pre-insulated terminals 0.14 - 2.5 mm²

Technical data:

- die nests are distinctly laser marked
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals
- ratchet system which guarantees a fully closed crimp
- emergency release if the crimp sequence must be interrupted
- weight 0,35 kg, length 192 mm, width 66 mm
- unique design makes the tools compact and handy
- requires minimum of muscle force for a perfect crimp
- designed to fit both right- and left-handed users
- at least 50,000 crimps

Crimp range 0.14 - 1.5 mm²

DSA0115

Elpress crimp tool for symmetrical crimping of pre-insulated terminals.

DSA0115



Crimp type



DSA0725



Crimp type



Crimp range 0.5 - 2.5 mm²

DSA0725

Elpress crimp tool for symmetrical crimping of pre-insulated terminals.

Particulars:

- die nest wear inspection easily made with go/no-go gauge ESAQ 0760

ESAQ 0760 - die nest gauge

Elpress go/no-go gauge for inspection of die nests in the following crimp tools: DSA0115, DSA0725, ESAQ0760(C) and ESEA0340C.

Particulars:

- weight 0,025 kg, length 55 mm
- grip Ø 8 mm
- supplied in practical plastic box
- a simple way to secure proper tool performance
- easy to use, with a GO-position and a NO GO-position for each die nest of the crimp tool.

Please contact Elpress for more information on tool calibration and QA.



Tool	Checks die nest		
DSA0115			
DSA0725			
ESAQ0760(C)			
ESEA0340C			

Certified Miniforce tools for pre-insulated terminals 0.5 - 6 mm² and end terminals 0.25 - 4 mm²

Technical data:

- 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 0,50 kg (0,54 kg, type C), length 220 mm (255 mm, type C), width 72 mm
- unique mechanism which reduces the handle force significantly
- 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

Crimp range 0.25 - 4 mm²

ESEA0340C

Miniforce **combination crimp tool** for crimping of both;

- pre-insulated terminals 0,5 - 2,5 mm² and
- pre-insulated and un-insulated end terminals 0,25 - 4 mm²

ESEA0340C



Crimp types



Crimp range 0.5 - 6 mm²

ESW0560C

Miniforce crimp tool for through connectors with **heat shrink insulation type SKW** (page 1.6, chapter 1).

ESW0560C



Crimp type



ESA0760 and ESA0760C

Elpress Miniforce crimp tools for symmetrical crimping of pre-insulated terminals 0,5 - 6 mm².

ESA0760



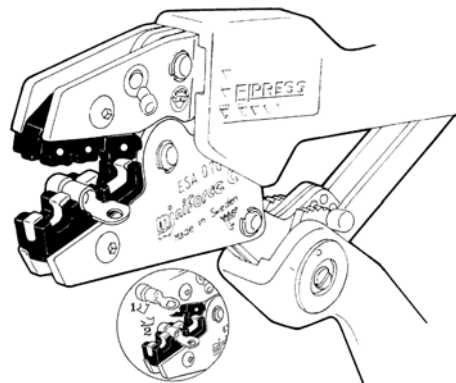
ESA0760C



Crimp type



ESA0760 locator



8

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

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 tools for un-insulated terminals 0.15 - 6 mm²

Technical data:

- die nests are distinctly marked
- adjustable if changes occur, ie after many crimps
- tested with Elpress terminals
- ratchet system to guarantee fully closed crimps
- emergency release if the crimping sequence must be interrupted
- weight 0,35 kg, length 192 mm, width 66 mm (type D tool)
- unique design makes the tools compact and handy
- requires minimum of muscle strength for a perfect crimp
- at least 50.000 crimps

Crimp range 0.5 - 1.5 mm²

TRB0515B

Tool for roll crimping of flag terminal B1507FLSB8.

- certificate not included
- weight 0,63 kg, length 260 mm

TRB0515B



Crimp type



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Crimp range 0.15 - 1.5 mm²

DRB0115

Elpress crimp tool for roll crimping of un-insulated receptacles, tab terminals, bullets and sockets. For crimping of B1507FLS or B1507FLSH ERB0560/ ERB0560C should be used.

DRB0115



Crimp type



Crimp range 0.25 - 2.5 mm²

DKB0325

Elpress crimp tool for indent crimping of Cu tube and sheet terminals.

DKB0325



Crimp type



Crimp range 0.75 - 6 mm²

DKB0760

Elpress crimp tool for indent crimping of Cu tube and sheet terminals.

DKB0760



Crimp type



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Certified Miniforce tools for un-insulated terminals 0.5 - 10 mm²

Technical data:

- 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
- weight 0,50 kg (0,54 kg, type C), length 220 mm (255 mm, type C), width 72 mm
- unique mechanism reduces the max. handle force significantly
- 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

Crimp range 0.5 - 6 mm²

ERB0560L and ERB0560LC

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:

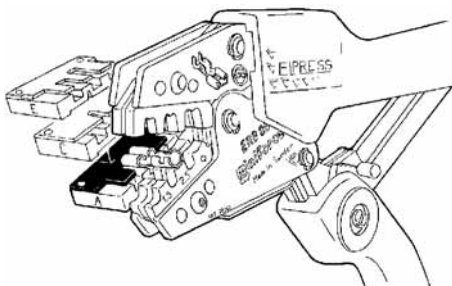
- supplied in a practical and rigid plastic box
- the L and LC type tool has locators - your "third hand" - to hold the terminals in the right crimp position, which simplifies quality performance considerably

Locator		Marking
A	1.	B1507FLS
	2.	B2507FLS
	3.	B2507FLSN B4607FLSN F4607FLS
C	1.	B1507H
	2.	B2507HN
	3.	B4607HN
E	1.	B1505FLS (5 or 8)
	2.	B2505FLS (5 or 8)

ERB0560L



Crimp type



ERB0560-locator.

ERB0560C



Crimp type



Crimp range 4 - 10 mm²

EWB4099 and EWB4099C

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.

EWB4099C



Crimp type



Certified crimp tools for end terminals (ferrules) 0.25 - 16 mm²

Technical data (type DEB):

- distinctly marked die nests
- ratchet system to guarantee a fully closed crimp
- emergency release if the crimping sequence must be interrupted
- adjustable if changes occur, ie after many crimps
- tested according to DIN requirements
- weight 0,35 kg, length 192 mmm, width 66 mm
- unique design makes the tools compact and handy
- requires a minimum of muscle force for a perfect crimp
- fits all users
- at least 50.000 crimps

Crimp range 0.25 - 2.5 mm²

DEB0325

Crimp tool for crimping of pre-insulated and un-insulated end terminals, front feed.

DEB0325



Crimp type



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Crimp range 0.5 - 6 mm²

DEB0560

Crimp tool for crimping of pre-insulated and un-insulated end terminals.

DEB0560



Crimp type



Crimp range 0.25 - 16 mm²

T2104



Crimp type



T2104

Crimp tool for pre-insulated and un-insulated end terminals 0,25 - 2,5 mm². This crimp tool does not have a full closure ratchet mechanism. Certificate is not included.

Particulars:

- weight 0,16 kg
- length 150 mm

TEB0516



Crimp type



TEB0516

Crimp tool for crimping of pre-insulated and un-insulated end terminals 0,5 - 16 mm². This crimp tool does not have a full closure ratchet mechanism. Certificate is not included.

Particulars:

- weight 0,25 kg
- length 185 mm

Certified Miniforce tools for end terminals (ferrules) 0.1 - 6 mm² and TWIN end terminals 2 x 0.5 - 2 x 10 mm²

Technical data:

- 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 0,50 kg (0,54 kg, type C), length 220 mm (255 mm, type C), width 72 mm
- unique mechanism reduces the max handle force significantly
- 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

Self setting crimp range 0.1 - 6 mm²

EEB0160

Miniforce **self-setting** tool for crimping pre-insulated and un-insulated end terminals 0.1 - 6 mm² and pre-insulated TWIN end terminals 2x0.5 - 2x4 mm².

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

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EEB0160



Crimp type



Self setting crimp range 0,5 - 6 mm²

PZD3

Self-setting tool for crimping pre-insulated and un-insulated end terminals 0.5 - 6 mm² and pre-insulated TWIN end terminals 2x0.5 - 2x4 mm².

Particulars:

- only one crimp nest which automatically sets to the appropriate size for the end terminal crimped; leaves a crimp surface with shallow transversal grooves
- front feed
- crimp lengths up to 17 mm
- weight 0.34 kg

PZD3



Crimp type



Crimp range 4 - 10 mm²

EEB4010C-TWIN

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

EEB4010C-TWIN



Crimp type



Certified Miniforce tools for end terminals 4 - 50 mm²

Technical data:

- 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 0,50 kg (0,54 kg, type C), length 220 mm (255 mm, type C), width 72 mm
- unique mechanism reduces the max handle force significantly
- 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

Crimp range 4 - 10 mm²

EEB4010 and EEB4010C

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

EEB4010C

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Crimp type



Crimp range 6 - 16 mm²

EEB0616C

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

EEB0616C



Crimp type



Crimp range 10 - 25 mm²

EEB1025 and EEB 1025C

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

EEB1025



Crimp type



Crimp range 35 - 50 mm²

EEB3550 and EEB3550C

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

EEB3550



Crimp type



Elpress Mobile - a tool with interchangeable dies



Professional crimp tool with interchangeable dies for installation and DataCom.

Technical data:

- a reliable, safe, economical and comfortable tool
- parallel-action stroke with a maximum force of 10 000 N, tested for 20000 crimps
- easily interchangeable crimp dies with one handgrip
- the dies are kept together as pairs with a special rod to simplify handling
- a wide range of crimping dies enables the user to cover 19 applications in just one tool frame
- light and practical – weight 460 g, length 234 mm, height 64 mm, width 24 mm

You purchase Elpress Mobile in two basic versions:

Mobile Installation

Mobile hand tool and two interchangeable dies:

- die OAA0525 for crimping of insulated terminals 0.5 - 2.5 mm²
- die OEB0210 for crimping of end sleeves 0.25 - 10 mm²

Mobile DataCom

Mobile hand tool and two interchangeable dies:

- die OMP45 for crimping of modular plug, RJ45 contacts
- die OCC1113 for crimping of coaxial contacts RG58, 59, 62, 71

Additional dies to Elpress Mobile are presented in the table on the following page.

You complete your kit with these dies

Additional dies to Elpress Mobile. All dies have the same easy and fast fastening in the frame. The dies are kept together as pairs and delivered in a plastic cassette which can be put together with other cassettes.



OAA0160
For crimping of pre-insulated terminals
0.1 - 6 mm².



OAA0525
For crimping of pre-insulated terminals
0.5 - 2.5 mm².



OPB0140
For crimping of global power connectors, GPC.



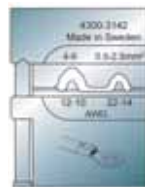
OPB6099
For crimping of global power connectors, GPC.



OWB4099
For W-crimping of un-insulated terminals
4 - 10 mm².



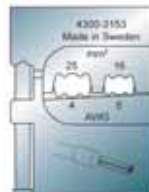
OKB0725
For indent crimping of un-insulated terminals
0.75 - 2.5 mm².



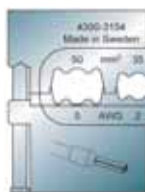
OKB0560
For indent crimping of un-insulated terminals
0.5 - 6 mm².



OEB0210
For crimping of end terminals
0.25 - 10 mm².



OEB1625
For crimping of end terminals
16 - 25 mm².



OEB3550
For crimping of end terminals
35 - 50 mm².



ORB0110
For roll crimping of terminals
0.1 - 1.0 mm².

ORB0560
For roll crimping of terminals
0.5 - 6 mm².



OFO5432
For crimping of fiber optics connections.



OCC0908
For crimping of coaxial contacts.



OCC1113
For crimping of coaxial contacts.



OCC4755
For crimping of coaxial contacts.



OMP45
For crimping of modular-plug RJ45.



OMP11
For crimping of modular-plug RJ11.

Battery powered crimp tool

Technical data:

- NiMh battery power (9.6 V and 1.3 Ah), recharge time approx. 40 minutes
- advanced ergonomics for excellent access in confined areas
- fast crimping 2-4 seconds
- approx. 150 crimps per charge
- crimp ranges see table below
- supplied in a plastic case with battery charger and one battery
- weight 1.5 kg, length 360 mm

PV130P - Elpress Mini

Battery powered tool for **parallel action crimping** of pre-insulated terminals up to 6 mm², un-insulated terminals up to 10 mm² and end terminals up to 50 mm².

Particulars:

- weight 1.3 kg, length 360 mm

PV130S - Elpress Mini

Battery powered tool for pliers-like **pivoted action crimping** of pre-insulated terminals up to 6 mm², un-insulated terminals up to 10 mm² and end terminals up to 50 mm².

Particulars:

- weight 1.5 kg, length 360 mm



PV130P, PV130S - Elpress Mini.

	PV130P	PV130S
Application/Crimping range	Die	Die
Pre-insulated 0,5-6 mm ²	SA0760	SA0760
Un-insulated, indent crimp 0,25-2,5 mm ²	KB0325	KB0325
Un-insulated, W crimp 4-10 mm ²	WB4099	WB4099
Un-insulated, roll-crimp 0,5-6 mm ²	RB0560	RB0560
End terminals (ferrules)		
0,5-6 mm ²	EB0560	EB0560
4-10 mm ²	EB4010	EB4010
10-25 mm ²	EB1025	EB1025
35-50 mm ²	EB3550	EB3550

Remember to specify dies when you order a tool.