

EK 120/42-L Battery powered crimping tool 16 - 400 mm²

- ▶ C-Head with 42 mm opening width and very wide crimping range to 400 mm²
- ▶ Up to 60% less crimping operations due to wide crimping compared with 6 t tools
- ▶ Easy handling by optimum weight distribution

Characteristics





































- For interchangeable dies, series 13, wide crimping
- Open C-crimping head, rotatable
- Electronic control and monitoring of crimping operation
- Integrated pressure measurement with visual and audible signals in case of failure
- Evaluation function using optical interface and USB adapter
- One-button operating concept for controlling all tooling functions
- Ergonomic 2-component plastic housing with soft linings
- Balanced centre of gravity for easy handling
- LED for workplace illumination
- High-performance 18V Li-ion battery with high capacity
- High-performance motors for maximum operating speed
- 2-stage hydraulic system with fast feed and power stroke
- Energy saving function by stopping motor after successful crimping process
- Quick motor stop for high user safety
- Automatic retraction when crimping is complete
- Manual retract in case of need
- Automatic retract stop (ARS) for positioning control in case of multiple crimpings
- Multi-function LED for maintenance control, charge level indicator of the battery and for data transmission via USB adapter
- Environmentally-friendly hydraulic oil, quickly biodegradable

Technical data	
Crimping force	120 kN
Stroke / opening width	42 mm
Crimping range	16 - 400 mm ²
Crimping cycle	8 s to 9 s (depending on cross-section)
Number of crimps	approx. 115 at 150 mm ² Cu DIN
Battery voltage	18 V
Battery capacity	3.0 Ah, Li-Ion
Charging time	22 min.
Weight incl. battery	6.8 kg
Ambient temperature	-12°C to +40 °C

Item	Part No.	
Battery powered hydraulic crimping tool 16 - 400 mm ²	EK12042L	
Scope of supply	Part No.	Page
Battery 18 V / 3.0 Ah, Li-Ion (54 Wh)	RAL2	398
Quick-charger for 18V Li-Ion batteries, 230 V	LGL1	400
Plastic case	KK120L	

Accessories	Part No.	Page
18 V mains adapter for 240 V Voltage	NG2230	399
USB adapter	PGA1	408
Digital meter for force and pressure measurement	TC1U	406
Measuring adapter, series 13	MA120	406
Force sensor, 130 kN	TF130L	406

Available dies for Series 13 for EK 120/42-L

Suitable for	Connection material	Crimping range mm ²	Crimp profile	Page
Tubular cable lugs and connectors, Cu				
Tubular cable lugs and connectors blue connection for compacted conductors acc. to VDE 0295, class 2		16 - 400		442
Tubular cable lugs and connectors, Cu, standard type, tubular cable lugs for switchgear connections		16 - 400		443
Insulated tubular cable lugs and connectors, insulated pin terminals		10 - 150		443
Tubular cable lugs and connectors for fine stranded conductors		16 - 150		444
Compression cable lugs and connectors acc. to DIN - Cu				
Compression cable lugs (DIN 46235) and connectors (DIN 46267, part 1) Cu		16 - 300		444
Double compression cable lugs		2 x 50 - 2 x 95		444
Terminals, connectors and pin terminals acc. to DIN - Cu				
Terminals (DIN 46234) and pin terminals (DIN 46230) Cu, solderless connectors (DIN 46341) Cu		16 - 150		445
Insulated terminals and pin terminals		10 - 95		445
Sleeves for compacted conductors and sector shaped conductors, Cu				
Pre-rounding crimping dies for Al and Cu sector shaped conductors		10 sm - 300 se / 300 sm		445
Aluminum compression cable lugs and connectors acc. to DIN				
Aluminum compression cable lugs and connectors acc. to DIN		10 - 240		446
Compression joints for full tension connections of Aldrey cables acc. to DIN EN 50182, Al conductors DIN EN 50182, 120 - 185 mm ²		25 - 185		446
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, aluminum crimping		25/4 - 120/20		446
Compression joints acc. to DIN 48085, part 3 for Al-steel cables acc. to DIN EN 50182, steel crimping		25/4 - 120/20		447
Aluminum/copper compression cable lugs and connectors				
Aluminum/copper compression cable lugs and connectors		10 - 240		446
Clamps				
Clamps, C-type		10 - 70		447
Clamps, H-type		70 - 120		447
Cable end-sleeves				
Cable end-sleeves		25 - 240		448
Cable end-sleeves, trapezoidal, for fine stranded conductors		25 - 240		448

Please observe the restrictions in the technical index when crimping connectors!



K13 SERIE



HK 120/30

HK 120/42

HK 120 U

EK 120/32

EK 120/42

EK 120 UNV

EK 120 U

EK 135 FT

THK 120

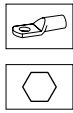
PK 120/42

PK 120 U

HK 25/2
+ 25/A13

PK 25/2
+ 25/A13

Crimping dies HR 13



Suitable for

- Tubular cable lugs and connectors - Cu, standard type
- Tubular cable lugs for switchgear connections

Technical instructions

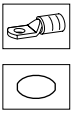
- For connectors, refer to the installation instructions in the technical appendix, page i-8

Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Crimp width mm
16	HR1316	10
25	HR1325	10
35	HR1335	10
50	HR1350	13
70	HR1370	13
95	HR1395	14
120	HR13120	14
150	HR13150	14
185	HR13185	11
240	HR13240	11
300	HR13300	11
400 *	HR13400	5

Crimping dies HIS 13

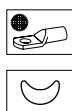


Suitable for

- Insulated tubular cable lugs and connectors
- Insulated pin terminals

Cross section mm ²	Part No.	Crimp width mm
10	HIS1310	5
16	HIS1316	5
25	HIS1325	5
35	HIS1335	5
50	HIS1350	5
70	HIS1370	5
95	HIS1395	5
120	HIS13120	5
150	HIS13150	5

Crimping dies HF 13

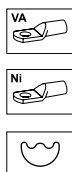


Suitable for

- Tubular cable lugs and connectors for fine stranded conductors

Cross section mm ²	Part No.
10	HF1310
16	HF1316
25	HF1325
35	HF1335
50	HF1350
70	HF1370
95	HF1395
120	HF13120
150	HF13150

Crimping dies HN 13, Double indent crimping

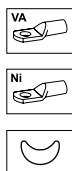


Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
10	HN1310
16	HN1316
25	HN1325
35	HN1335
50	HN1350

Crimping dies HN 13, Indent crimping



Suitable for

- Tubular cable lugs and connectors - Ni
- Tubular cable lugs and connectors - stainless steel

Cross section mm ²	Part No.
70	HN1370
95	HN1395

Crimping dies HD 13



Suitable for

- Compression cable lugs to DIN 46235 - Cu
- Compression joints to DIN 46267, part 1 - Cu

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Additional information

- * = Narrow crimping (crimp 5 x)

Cross section mm ²	Part No.	Code	Crimp width mm
10	HD1310	6	10
16	HD1316	8	10
25	HD1325	10	10
35	HD1335	12	10
50	HD1350	14	13
70	HD1370	16	13
95	HD1395	18	14
120	HD13120	20	14
150	HD13150	22	10
185	HD13185	25	10
240	HD13240	28	10
300 *	HD13300	32	7

Crimping dies HDP 13



Suitable for

- Double compression cable lugs

Cross section mm ²	Part No.	Code	Crimp width mm
2 x 50	HDP1350	22 DP	12
2 x 70	HDP1370	24 DP	12
2 x 95	HDP1395	29 DP	12
2 x 120	HDP13120	32 DP	12

Crimping dies HQ 13



Suitable for

- Solderless terminals to DIN 46234 and pin terminals to DIN 46230 - Cu
- Solderless connectors to DIN 46341 - Cu

Cross section mm ²	Part No.
10	HQ1310
16	HQ1316
25	HQ1325
35	HQ1335
50	HQ1350
70	HQ1370
95	HQ1395
120	HQ13120
150	HQ13150

Crimping dies HISQ 13

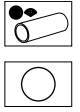


Suitable for

- Insulated solderless terminals and pin terminals

Cross section mm ²	Part No.
10	HISQ1310
16	HISQ1316
25	HISQ1325
35	HISQ1335
50	HISQ1350
70	HISQ1370
95	HISQ1395

Crimping dies HRU 13



Suitable for

- Pre-rounding dies for sector-shaped Al and Cu conductors
- 3- and 4-core sector-shaped conductors

Nominal cross section mm ² re/sm	Nominal cross section mm ² rm/sm	Part No.	Conductor dia. mm	Pre-rounding width mm
	10	HRU1310	4.1	35
	16	HRU1316	5.1	35
35	25	HRU133525	6.3	35
50	35	HRU135035	7.5	35
70	50	HRU137050	9.0	35
95	70	HRU139570	10.5	35
120	95	HRU1312095	12.5	35
150	120	HRU13150120	14.0	35
185	150	HRU13185150	15.8	35
240	185	HRU13240185	17.5	35
300	240	HRU13300240	20.3	35
	300	HRU13300SM	22.5	35

Crimping dies HA 13



Suitable for

- Compression cable lugs and connectors to DIN - Al
- Compression cable lugs and connectors Al/Cu (aluminium side)

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Nominal cross section mm ² re/se	Nominal cross section mm ² rm/sm	Part No.	Code	Crimp width mm
16	10	HA1310	10	12
25-35	16-25	HA131625	12	12
50	35	HA1335	14	12
70	50	HA1350	16	12
95	70	HA1370	18	12
120-150	95-120	HA1395120	22	14
185	150	HA13150	25	14
270	185	HA13185	28	14
300	240	HA13240	32	17
-	300	HA13300	34	17

Crimping dies HAD 13



Suitable for

- Compression joints for full tension connections of Aldrey conductors according to DIN EN 50182
- Al-conductor acc. to DIN EN 50182, 120 - 185 mm²

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25	HAD1325	12	12
35	HAD1335	14	12
50	HAD1350	16	12
70	HAD1370	18	12
95	HAD1395	20	14
120	HAD13120	25	14
150 - 185	HAD13150185	28	14

Crimping dies HAST 13



Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Aluminium crimping

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4	HAST1325	12	12
35 - 6	HAST1335	14	12
50 - 8	HAST1350	16	12
70 - 12	HAST1370	18	12
95 - 15	HAST1395	22	14
120 - 20	HAST13120	25	14

Crimping dies HST 13



Suitable for

- Compression joints acc. to DIN 48085, part 3 for Al-/St-cable acc. to DIN EN 50182
- Steel crimping

Technical instructions

- For connectors, refer to the installation instructions in the technical appendix, page i-8

Cross section mm ²	Part No.	Code	Crimp width mm
25 - 4	HST1346	6	12
35 - 6			
50 - 8	HST138	7	12
70 - 12	HST131215	9	12
95 - 15			
120 - 20	HST1320	13	12

Crimping dies HC 13 / HMC 13

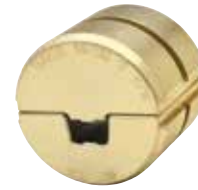


Suitable for

- C-clamps

Cross section mm ²	Part No.	Crimp width mm
16	HC1316	16
25	HC1325	17
35	HC1335	20
50	HC1350	20
70	HC1370	20
10 - 10	HMC1310	13
10 - 16	HMC1335	18
10 - 25		
35 - 35		
25 - 50	HMC1350	20
50 - 50		
35 - 70	HMC1370	20

Crimping dies HAES 13



Suitable for

- Cable end-sleeves

Cross section mm ²	Part No.	Crimp width mm
25	HAES1325S	20
35	HAES1335S	20
50	HAES1350S	20
70	HAES1370S	20
95	HAES1395S	20
120	HAES13120S	20
150	HAES13150S	35
185	HAES13185S	35
240	HAES13240S	35

Crimping dies HAH 13



Suitable for

- H-clamps

Cross section mm ²	Part No.	Crimp width mm
70	HAH1370	30
95	HAH1395	30
120	HAH13120	20