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TOOLS FOR PROFESSIONALS
ELECTROTECHNICAL PRODUCTS



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Hydraulic compression tools – 45kN

Designed to crimp terminals and connectors up to a maximum of 45kN
(120mm² cable cross section)

Crimping dies for HP45



Hexagon crimping dies

according to DIN 48083

for connectors according to DIN 46235, DIN 46287, Cu, Al and Al/St

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium		Cross section (mm ²) Aluminium Steel	
			tension free	full tension	tension free	full tension	Al-sleeve	St-sleeve
MK 5-45	5	5	6	6				
MK 6-45	6	5	10					16/2,5 25/4 35/6
U4-K7D MK 7-45	7	5						50/8
MK 8-45	8	5	16	10-16				
U4-K9D MK 9-45	9	5						70/12 95/15
U4-K10D MK 10-45	10	5	25	25				
MK 10B-45	10	7			10	10		
U4-K12D MK 12-45	12	5	35	35				
MK 12B-45	12	7			16-25	16-25	16/2,5 25/4	
U4-K14D MK 14-45	14	5	50	50				
U4-K14 MK 14B-45	14	7			35	35	35/6	
U4-K16D MK 16-45	16	5	70	70				
MK 16B-45	16	7			50	50	50/8	
U4-K18D MK 18-45	18	5	95					
U4-K18 MK 18B-45	18	7			70	70	70/12	
MK 20-45	20	5	120	95				
MK 22B-45	22	7			95-120	95	95/15	



Order ref.
HP45



Hexagon crimping dies

for cable shoes and connectors
made of copper similar to DIN

Order ref.	Compr. width	Cross section (mm ²)
MH 6-45	5	6
MH 10-45	5	10
MH 16-45	5	16
MH 25-45	5	25
MH 35-45	5	35
MH 50-45	5	50
MH 70-45	5	70
MH 95-45	5	95
MH 120-45	5	120



Round die

to round off copper and aluminium sector shaped conductor

Order ref.	Compr. width	Cross section (mm ²)	
		SE	SM
UP 4,1-45	20		10
UP 5,1-45	20		16
UP 6,3-45	20	35	25
UP 7,5-45	20	50	35
UP 9,0-45	20	70	50
UP 10,5-45	20	95	70
UP 12,5-45	20	120	95
UP 14,0-45	20	150	120



Order ref.
MKGR1



Order ref.
MPSF6-1



Order ref.
MPSF6-loose

➤ Special dies on request

Description	Order ref.	Dimensions	⚖ approx.
Manual hydraulic compression tool	HP45	460x240x90mm	3.5 kg
Mechanic tool for SF6 System without terminals	MPSF6-loose	515x155x73mm	2.2 kg
→Mechanic comp. tool for SF6 System Gr. 1 - Set	MPSF6-1	570x155x75mm	6.6 kg
→Mechanic comp. tool for SF6 System Gr. 2 - Set	MPSF6-2	570x155x75mm	6.2 kg
→Mechanic comp. tool for SF6 System Gr. 3 - Set	MPSF6-3	630x155x95mm	8.7 kg
→Terminal dies size 1 SF6 System	MKGR1	125x65x65mm	1.9 kg
→Terminal dies size 2 SF6 System	MKGR2	125x65x65mm	1.7 kg
→Terminal dies size 3 SF6 System	MKGR3	185x95x95mm	4.0 kg


Order ref.
HP50

Order ref.
MP60-1

Order ref.
PP60-1

Order ref.
AD50-45

Cutting jaw for Al and Cu Cable

Order ref.	Application
MS16	Cutting insert to cut aluminium and copper (also armored) up to diameter of 16mm

Hydraulic compression tools – 50kN and 60kN

Designed to crimp terminals and connectors up to a maximum of 50kN
(185mm² cable cross section)

Crimping dies for HP50, MP60-1, PP60-1, HPI60-1, API60-1, API60-1ISL, HPI80-1, API80-1



Hexagon crimping dies

according to DIN 48083 for connectors according to DIN 46235, DIN 46287, Cu, Al and Al/St

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 5-50	5	5	6	6				
MK 6-50	6	5	10					16/2,5 25/4 35/6
MK 7-50	7	5						50/8
MK 8-50	8	5	16	10-16				
MK 9-50	9	5						70/12 95/15
MK 10-50	10	5	25	25				
MK 10B-50	10	7			10	10		
MK 11-50	11	5						25
MK 12-50	12	5	35	35				
MK 12B-50	12	7			16-25	16-25	16/2,5 25/4	
U5-K13D MK 13-50	13	5						120/20 150/25
U5-K14D MK 14-50	14	5	50	50				
U5-K14 MK 14B-50	14	7			35	35	35/6	
MK 16-50	16	5	70	70				
MK 16B-50	16	7			50	50	50/8	
U5-K18D MK 18-50	18	5	95					
U5-K18 MK 18B-50	18	7			70	70	70/12	
U5-K20D MK 20-50	20	5	120	95				
MK 20B-50	20	7	120	95				
U5-K22D MK 22-50	22	5	150	120				
MK 22B-50	22	7			95-120	95	95/15	
MK 25-50	25	5	185	150				
MK 25B-50	25	7			150	120	44/32 50/30 120/20	
MK 27B-50	27	7						
MK 28-50 ¹⁾	28	5	240	185				
MK 28B-50	28	7			185	150-185	125/30 150/25	
MK 32-50V*		5			240			

> ¹⁾ not for HP50 and MP60-1

> ^{*)} only for HP60-3



Hexagon crimping dies
for cable shoes and connectors
made of copper similar to DIN

Order ref.	Compr. width	Cross section (mm ²)
MH 6-50	5	6
MH 10-50	7	10
MH 16-50	7	16
MH 25-50	7	25
MH 35-50	7	35
MH 50-50	7	50
MH 70-50	7	70
MH 95-50	7	95
MH 120-50	7	120
MH 150-50	7	150
MH 185-50	7	185
MH 240-50 ¹⁾	5	240



Strip off insert
to strip off aluminium steel ropes

Order ref.	Cross section (mm ²)
Al-St 25/4-50	25/4
Al-St 35/6-50	35/6
Al-St 50/8-50	50/8
Al-St 70/12-50	70/12
Al-St 95/15-50	95/15
Al-St 120/20-50	120/20



Round dies
to round off copper and aluminium
sector shaped conductor

Order ref.	Compr. width	Cross section (mm ²)	
		SE	SM
UP 4,1-50	20		10
UP 5,1-50	20		16
UP 6,3-50	20	35	25
UP 7,5-50	20	50	35
UP 9,0-50	20	70	50
UP 10,5-50	20	95	70
UP 12,5-50	20	120	95
UP 14,0-50	20	150	120
UP 15,7-50	20	185	150
UP 17,5-50	20	240	185
UP 20,2-50 ¹⁾	20	300	240



Thorn-crimping dies
fine wire conductors

Order ref.	Cross section (mm ²)
MDF 10-50	10
MDF 16-50	16
MDF 25-50	25
MDF 35-50	35
MDF 50-50	50

Crimping dies for HP50, MP60-1, PP60-1, HPI60-1, API60-1, API60-1ISL, HPI80-1, API80-1



Oval Crimping dies

for the compression of compression dead-ends and oval connectors according to DIN 48217 and H branch terminals

Order ref.	Compr. width	Cross section (mm²)			H-Clamp Cu
		Dead end clamps and oval connectors			
		Cu	Al	St	
MO 7-50	5	6RE			
MO 8-50	5	10RE			
MO 10-50	5	10RM/16RE			6-10/6-10
MO 12-50	5	16	16		
MO 16-50	5	25	25		16/6-16
MO 18-50	5	35	35	35	25/6-25
MO 20-50	5	50	50	50	
MO 21-50	5				35/10-35
MO 22-50	5	70	70	70	
MO 24-50	5	95	95		
MO 26-50	5		120		

► Special dies on request



Oval crimping

dies for notch connector

Conductor in		Al-Steel- Rope	Cross section (mm²)
Cu	Al		
Order ref.			
MKO 10-50 Cu			10
MKO 16-50 Cu			16
MKO 25-50 Cu	MKO 25-50 Al		25
		MKO 35/6-50	35/6
MKO 35-50 Cu	MKO 35-50 Al		35
MKO 50-50 Cu	MKO 50-50 Al		50
		MKO 50/8-50	50/8
		MKO 50/30-50	50/30
MKO 70-50 Cu	MKO 70-50 Al		70
		MKO 70/12-50	70/12
MKO 95- 50Cu	MKO 95-50 Al		95
MKO 120- 50 Cu	MKO 120-50 Al		120



Trapezoid crimping dies

for wire end sleeve

Order ref.	Compr. width	Cross section (mm ²)
MTT 10-50	20	10
MTT 16-50	20	16
MTT 25-50	20	25
MTT 35-50	20	35
MTT 50-50	20	50
MTT 70-50	20	70
MTT 95-50	20	95



Mandrel crimping dies

for fork terminals according to DIN 46243

Order ref.	Cross section (mm ²)
MD 10-50	10
MD 16-50	16
MD 25-50	25
MD 35-50	35
MD 50-50	50
MD 70-50	70
MD 95-50	95

► *Opening spring (Order ref. OEF1) must be ordered too if ordering dies for the MP60-1

Description	Order ref.	Dimensions	approx.
Manual hydraulic compression tool 50kN - Set	HP50	460x240x90mm	3.70 kg
→ Adapter for crimping dies 45kN	AD50-45	–	50 g
Compression tool C-head 60kN - Set	MP60-1	610x310x55mm	7.70 kg
→ Opening spring for crimping dies (MP60-1)	OEF1	–	40 g
Manual hydraulic compression tool 60kN - Set	HPI60-1	700x260x105mm	5.00 kg
Manual hydraulic compression tool 60kN - Set insulated	HPI60-1ISL	630x270x100mm	5.40 kg
Hydraulic compression head - Set 60kN	PP60-1	330x260x75mm	2.30 kg
Battery-operated hydr. compr. tool 60 kN - Set	API60-1	610x400x140mm	6.00 kg
Battery operated hydr. compr. tool 60 kN - Set insulated	API60-1ISL	610x400x140mm	6.50 kg



Order ref.
HP60-1



Order ref.
HP60-1ISL



CE
Order ref.
API60-1



CE
Order ref.
API60-1-ISL



Order ref.
PP60-2



Order ref.
MP60-2

Hydraulic compression tools – 60kN

Designed to crimp terminals and connectors up to a maximum of 60kN
(300mm² cable cross section)

Crimping dies for MP60–2, PP60–2, HPI60–2, API60–2



Hexagon crimping dies

to DIN 48083 for connectors according to DIN 46235, DIN 46287, Cu, Al and Al/St

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 5-CK	5	5	6					
MK 6-CK	6	5	10					16/2,5 25/4 35/6
MK 7-CK	7	5						50/8
MK 8-CK	8	5	16	10-16				
MK 9-CK	9	5						70/12 95/15
MK 10-CK	10	5	25	25				
MK 10B-CK	10	7			10	10		
MK 12-CK	12	5	35	35				
MK 12B-CK	12	7			16-25	16-25	16/2,5 25/4	
MK 13-CK	13	5						120/20 150/25
MK 14-CK	14	5	50	50				
MK 14B-CK	14	7			35	35	35/6	
MK 16-CK	16	5	70	70				
MK 16B-CK	16	7			50	50	50/8	
MK 18-CK	18	5	95					
MK 18B-CK	18	7			70	70	70/12	
MK 20-CK	20	5	120	95				
MK 22-CK	22	5	150	120				
MK 22B-CK	22	7			95-120	95	95/15	
MK 25-CK	25	5	185	150				
MK 25B-CK	25	7			150	120	44/32 50/30 120/20	
MK 28-CK	28	5	240	185				
MK 28B-CK	28	7			185	150-185	125/30 150/25	
MK 32-CK	32	5			240			
MK 32B-CK	32	7			240			
MK 34-CK	34	5			300			



Hexagon crimping dies

cable shoes and connectors made of copper similar to DIN

Order ref.	Compr. width	Cross section (mm ²)
MH 6-CK	5	6
MH 10-CK	5	10
MH 16-CK	5	16
MH 25-CK	5	25
MH 35-CK	5	35
MH 50-CK	5	50
MH 70-CK	5	70
MH 95-CK	5	95
MH 120-CK	5	120
MH 150-CK	5	150
MH 185-CK	5	185
MH 240-CK	5	240
MH 300-CK	5	300

➤ Special dies on request



Round dies

to round off copper and aluminium sector-shaped conductor

Order ref.	Compr. width	Cross section (mm ²)	
		SE	SM
UP 4,1-CK	19,5		10
UP 5,1-CK	19,5		16
UP 6,3-CK	19,5	35	25
UP 7,5-CK	19,5	50	35
UP 9,0-CK	19,5	70	50
UP 10,5-CK	19,5	95	70
UP 12,5-CK	19,5	120	95
UP 14,0-CK	19,5	150	120
UP 15,7-CK	19,5	185	150
UP 17,5-CK	19,5	240	185
UP 20,2-CK	19,5	300	240



Order ref.
HPI60-2

Crimping dies for MP60-2, PP60-2, HPI60-2, API60-2



Oval crimping dies

for the compression of compression dead ends and oval connectors according to DIN 48217 and H branch terminals

Order ref.	Compr. width	Cross section (mm²) compression dead-ends and oval connectors	
		Cu	Al
MO 10-CK	5	10	10
MO 16-CK	5	16	16
MO 25-CK	5	25	25
MO 35-CK	5	35	35
MO 50-CK	5	50	50
MO 70-CK	5	70	70



Mandrel crimping dies

for fine wire conductors

Order ref.	Cross section (mm²)
MDF 10-CK	10
MDF 16-CK	16
MDF 25-CK	25
MDF 35-CK	35
MDF 50-CK	50
MDF 70-CK	70



Order ref.
API60-2



Trapezoid-crimping dies

for wire end sleeve

Order ref.	Compr. width	Cross section (mm²)
MTT 10-CK	20	10
MTT 16-CK	20	16
MTT 25-CK	20	25
MTT 35-CK	20	35
MTT 50-CK	20	50
MTT 70-CK	20	70
MTT 95-CK	20	95
MTT 120-CK	20	120
MTT 150-CK	20	150



Mandrel-crimping dies

for fork terminals to DIN 46234

Order ref.	Cross section (mm²)
MD 10-CK	10
MD 16-CK	16
MD 25-CK	25
MD 35-CK	35
MD 50-CK	50
MD 70-CK	70



Order ref.
HP60-3

Description	Order ref.	Dimensions	approx.
Hydraulic compression head - Set 60kN	PP60-2	330x260x75mm	3.4 kg
Mechanic Compression Tool 60kN - Set	MP60-2	610x310x55mm	8.2 kg
Manual hydraulic compression tool 60kN - Set	HPI60-2	700x260x105mm	6.0 kg
Manual hydraulic compression tool 60kN - Set	HP60-3	460x230x90mm	3.5 kg
Battery operated hydraulic compr. tool 60kN - Set	API60-2	610x400x140mm	6.5 kg

Hydraulic compression tools – 130kN

Designed to crimp terminals and connectors up to a maximum of 130kN
(300mm² cable cross section)

Crimping dies for PP130, HPI130, API130



Hexagon crimping dies

according to DIN 48083 for connectors according to DIN 46235, Cu, Al and Al/St

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium stranded		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 6-C	6	5	10					16/2,5 25/4 35/6
MK 7-C	7	5						50/8
MK 8-C	8	14	16	10-16				
MK 9-C	9	5						70/12 95/15
MK 10-C	10	14	25	25				
MK 12-C	12	14	35	35	16-25	16-25	16/2,5 25/4	
U13-K13D MK 13-C	13	12						120/20 150/25
MK 14-C	14	14	50	50	35	35	35/6	
MK 15-C	15	12						44/32 50/30 125/30 170/40 185/30 210/35 230/30 240/40 265/35 305/40 340/30 385/35 450/40 495/35 570/40
MK 16-C	16	14	70	70	50	50	50/8	
MK 17-C	17	12						210/50 300/50 380/50 510/45 560/50 650/45
MK 18-C	18	14	95		70	70	70/12	
U13-K19D MK 19-C	19	12						95/55 435/55
MK 20-C	20	14	120	95				
MK 21-C	21							
U13-K22D MK 22-C	22	14	150	120	95-120	95	95/15	
MK 25-C	25	14	185	150	150	120	44/32 50/30 120/20	
MK 28-C	28	7	240					
MK 28L-C	28	14			185	150/185	125/30 150/25	
U13-K30D		MK 30-C	30	7		185		
MK 30L-C	30	14					95/55 170/40 185/30	
U13-K32D		MK 32-C	32	7	300			
MK 32L-C	32	17			240			
MK 34L-C	34	17			300	240	105/75 120/70 210/35 210/50 230/30 240/40	



Order ref.
PP130-C



Order ref.
PP130-C2



Order ref.
PP130-H



Order ref.
HPI130-C



Order ref.
HPI130-C3



Thorn-crimping dies

for cable shoes according to
DIN 46234

Order ref.	Cross section (mm ²)
MD 16-C	16
MD 25-C	25
MD 35-C	35
MD 50-C	50
MD 70-C	70
MD 95-C	95
MD 120-C	120
MD 150-C	150

► On request:

- periodic calibration of DIN crimping dies with test certificate
- special dies



Thorn-crimping dies

for fine wire conductors

Order ref.	Cross section (mm ²)
MDF 16-C	16
MDF 25-C	25
MDF 35-C	35
MDF 50-C	50
MDF 70-C	70
MDF 95-C	95
MDF 120-C	120
MDF 150-C	150

Oval crimping dies

for H branch terminals

Order ref.	Compr. width	Cross section (mm ²)
MRH22-C	30	2 x 50
MRH26-C	30	2 x 70
MRH30-C	30	2 x 95
MRH32-C	30	2 x 120

Oval crimping dies

for twin cable lugs

Order ref.	Compr. width	Cross section (mm ²)
MRD22-C	12	2 x 50
MRD24-C	12	2 x 70
MRD29-C	12	2 x 95
MRD32-C	12	2 x 120



Order ref.
HPI130-H



Order ref.
HPI130-H3

Crimping dies for PP130, HPI130, API130



Hexagon crimping dies
for cable shoes and connectors made
of copper similar to DIN

Order ref.	Compr. width	Cross section (mm²)
MH 10-C	8	10
MH 16-C	8	16
MH 25-C	10	25
MH 35-C	14	35
MH 50-C	14	50
MH 70-C	14	70
MH 95-C	14	95
MH 120-C	14	120
MH 150-C	14	150
MH 185-C	14	185
MH 240-C	14	240
MH 300-C	7	300
MH 400-C	7	400



Trapezoid-crimping dies
for wire end sleeve

Order ref.	Compr. width	Cross section (mm²)
MTT 16-C	20	16
MTT 25-C	20	25
MTT 35-C	20	35
MTT 50-C	26	50
MTT 70-C	26	70
MTT 95-C	26	95
MTT 120-C	26	120
MTT 150-C	26	150
MTT 185-C	26	185



Oval Crimping dies
for the compression of compression dead-ends and oval connectors according to
DIN 48217 and H branch terminals

Order ref.	Compr. width	Cross section (mm²)			H-Clamp
		Dead end clamps and oval Connectors			
		Cu	Al	Cu	St
MO 10-C	5	10	10		
MO 12-C	5	16	16		
MO 16-C	5	25	25		16
MO 18-C	5	35	35	35	25
MO 20-C	5	50	50	50	
MO 21-C	5				35
MO 22-C	5	70	70	70	
MO 24-C	5	95	95		
MO 25-C	5			95	
MO 26-C	5	120	120		



Strip off insert
insert to strip off aluminium
steel ropes

Order ref.	Cross section (mm²)
Al-St 50/8-C	50/8
Al-St 50/30-C	50/30
Al-St 70/12-C	70/12
Al-St 95/15-C	95/15
Al-St 95/55-C	95/55
Al-St 120/20-C	120/20
Al-St 150/25-C	150/25
Al-St 170/40-C	170/40
Al-St 185/30-C	185/30
Al-St 210/35-C	210/35
Al-St 240/40-C	240/40
Al-St 265/35-C	265/35



Round dies
to round off copper and aluminium
sector shaped conductor

Order ref.	Compr. width	Cross section (mm²)	
		se	sm
UP 4,1-C	35	-	10
UP 5,1-C	35	-	16
UP 6,3-C	35	35	25
UP 7,5-C	35	50	35
UP 9,0-C	35	70	50
UP 10,5-C	35	95	70
UP 12,5-C	35	120	95
UP 14,0-C	35	150	120
UP 15,7-C	35	185	150
UP 17,5-C	35	240	185
UP 20,2-C	35	300	240
UP 22,5-C	35		300



Description	Order ref.	Dimensions	approx.
Hydraulic compression head 130kN - Set	PP130-C	410x360x135mm	5.9 kg
Hydraulic compression head 130kN - Set	PP130-C2	410x360x135mm	6.5 kg
Hydraulic compression head 130kN - Set	PP130-H	410x360x135mm	5.2 kg
Manual hydraulic compression tool 130kN - Set	HPI130-C	705x270x100mm	8.2 kg
Manual hydraulic compression tool 130kN - Set	HP130-C3	830x280x110mm	7.7 kg
Manual hydraulic compression tool 130kN - Set	HPI130-H	710x270x100mm	7.4 kg
Manual hydraulic compression tool 130kN - Set	HP130-H3	830x280x110mm	5.9 kg
Battery operated hydr. compr. tool 130kN - Set	API130-C	610x400x140mm	9.0 kg
Battery operated hydr. compr. tool 130kN - Set	API130-C2	610x400x140mm	9.5 kg
Battery operated hydr. compr. tool 130kN - Set	API130-H	610x400x140mm	8.5 kg

Description	Order ref.	for crimping dies	approx.
Femal die holding fixture C-form	AD130-H	C-Form	350 g
Femal die holding fixture C-form	AD13-C *	C-Form	470 g
Femal die holding fixture	AD13-150	Deep slot crimping	450 g
Femal die holding fixture	AD13-240	Deep slot crimping	335 g

➤ *) only for HP130-H3

Female die holding fixture 130kN

AD130-H
AD13-C



for crimping dies C-Form



AD13-150
AD13-240



Deep throat
compression

Hydraulic compression head – 230kN

Designed to crimp terminals and connectors up to a maximum of 230kN
(630mm² cable cross section)

Crimping dies for PP230**Crimping dies for PP230**

according to DIN 48083 for connectors according to DIN 46235, Cu, Al and Al/St



CE

Order ref.
PP230

- The compression head must be combined with a hydraulic pump (Maximum pressure 700bar/70MPa).

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium stranded		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 10-3D	10	14	25	25				
MK 12-3D	12	14	35	35	16-25	16-25	16/2,5 25/4	
MK 13-3D	13	12						120/20 150/25
MK 14-3D	14	14	50	50	35	35	35/6	
MK 15-3D	15	12						44/32 50/30 125/30 170/40 185/30 210/35 230/30 240/40 265/35 305/40 340/30 385/35 450/40 495/35 570/40
MK 16-3D	16	14	70	70	50	50	50/8	
MK 17-3D	17	12						210/50 300/50 380/50 510/45 560/50 650/45
MK 18-3D	18	12	95		70	70	70/12	
MK 19-3D	19	14						95/55 435/55
MK 20-3D	20	14	120	95				
MK 21-3D	21	14						105/75 120/70 490/65 550/70
MK 22-3D	22	14	150	120	95-120	95		
MK 22B-3D	22	40			95-120	95	95/15	
MK 23-3D	23	14						680/85
MK 25-3D	25	14	185	150	150	120		
MK 25B-3D	25	40			150	120	44/32 50/30 120/20	
MK 28-3D	28	14	240		185	150-185		
MK 28B-3D	28	40			185	150-185	125/30 150/25	
MK 30-3D	30	17		185				
MK 30B-3D	30	25					95/55 170/40 185/30	
MK 32-3D	32	17	300		240			
MK 32B-3D	32	25			240			
MK 34-3D	34	17		240	300	240		
MK 34B-3D	34	25			300	240	105/75 120/70 210/35 210/50 230/30 240/40	
MK 38-3D	38	17	400		400	300		
MK 38B-3D	38	25			400	300	265/35 300/50 305/40 340/30	
MK 42-3D	42	17	500					
MK 42B-3D	42	25					380/50 385/35	
MK 44-3D	44	17	630		500			


Thorn crimping dies
for fine wire conductors

Order ref.	Cross section (mm ²)
MDF 120-3D	120
MDF 150-3D	150
MDF 185-3D	185
MDF 240-3D	240
MDF 300-3D	300


Oval crimping die
for twin comp. cable lugs

Order ref.	Compr. width	Cross section (mm ²)
MRD22-3D	40	2 x 50
MRD24-3D	40	2 x 70
MRD29-3D	40	2 x 95
MRD32-3D	40	2 x 120

**Hexagon crimping dies**

for cable shoes and connectors made of copper similar to DIN

Order ref.	Compr. width	Cross section (mm ²)
MH 120-3D	14	120
MH 150-3D	14	150
MH 185-3D	14	185
MH 240-3D	17	240
MH 300-3D	17	300
MH 400-3D	17	400
MH 500-3D	17	500
MH 625-3D	17	630

Cutting Jaw

Order ref.	Application
WT 2-3D	Circular cutting insert to cut Cu, Al cables; Aldrey Al/St ropes up to 20mm Ø
WT 3-3D	Flat cutting insert to cut earth electrode and flat band steel up to 30 mm wide


Oval crimping die
for H-branch terminals

Order ref.	Compr. width	Cross section (mm ²)
MRH22-3D	2 x 50	40
MRH26-3D	2 x 70	40
MRH30-3D	2 x 95	40
MRH32-3D	2 x 120	40
MRH34-3D	2 x 150	40

- On request:
- periodic calibration of DIN crimping dies with test certificate
 - Special dies

Crimping dies for PP230



Crimping die
for notch connector

Cu-Conductor Order ref.	Al-Conductor Order ref.	Al-Steel-Rope Order ref.	Cross section (mm ²)
MKO 10-3D Cu			10
MKO 16-3D Cu			16
MKO 25-3D Cu	MKO 25-3D Al		25
MKO 35-3D Cu	MKO 35-3D Al		35
MKO 50-3D Cu	MKO 50-3D Al		50
		MKO 50/8-3D	50/8
		MKO 50/30-3D	50/30
		MKO 70/12-3D	70/12
MKO 70-3D Cu	MKO 70-3D Al		70
MKO 95-3D Cu	MKO 95-3D Al		95
		MKO 95/15-3D	95/15
MKO 120-3D Cu	MKO 120-3D Al		120
		MKO 120/21-3D	120/21
		MKO 125/30-3D	125/30
MKO 150-3D Cu	MKO 150-3D Al		150
		MKO 150/25-3D	150/25
	MKO 185-3D Al		185
		MKO 185/32-3D	185/32
	MKO 240-3D Al		240
		MKO 210/36-3D	210/36
		MKO 210/50-3D	210/50
		MKO 240/40-3D	240/40

Adapter for Crimping Dies 130kN
this adapter allows use of all dies (C-Form)
for the tool 130kN on model PP230 .



Round dies
to round off copper and aluminium
sector shaped conductor

Order ref.	Compr. width	Cross section (mm ²)	
		se	sm
UP 4,1-C *	35	-	10
UP 5,1-C *	35	-	16
UP 6,3-C *	35	35	25
UP 7,5-C *	35	50	35
UP 9,0-C *	35	70	50
UP 10,5-C *	35	95	70
UP 12,5-C *	35	120	95
UP 14,0-C *	35	150	120
UP 15,7-C *	35	185	150
UP 17,5-C *	35	240	185
UP 20,2-C *	35	300	240
UP 22,5-C *	35		300

➤ *) to use with Adapter AD230-130



Order ref.
AD230-130

Description	Order ref.	Dimensions	⚖ approx.
Hydraulic compression head 230kN - Set	PP230	410x360x135mm	7.3 kg

Description	Order ref.	for crimping dies	⚖ approx.
Adapter for crimping dies	AD230-130	C-Form	820 g

Hydraulic compression head – 520kN

Designed to crimp terminals and connectors up to a maximum of 520kN
(1000 mm² cable cross section)

Crimping dies for PP520



Hexagon crimping dies

according to DIN 48083 for connectors according to DIN 46235, Cu, Al and Al/St



Order ref.
PP520

- The compression head must be combined with a hydraulic pump (Maximum pressure 700bar/70MPa).

Adapter for crimping dies 130kN
with this adapter you can use all crimping dies (C-Form) of the 130kN tools with the compression head PP520.



Order ref.
AD520-130

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium stranded		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 12-520	12	14	35	35	16-25	16-25	16/2,5 25/4	
MK 13-520	13	14						120/20 150/25
MK 15-520	15	14						44/32 50/30
								125/30 170/40
								185/30 210/35
								230/30 240/40
								265/35 305/40
								340/30 385/35
								450/40 495/35
								570/40
MK 17-520	17	14						210/50 300/50
MK 19-520	19	14						380/50 510/45
MK 20-520	20	14	120	95				560/50 650/45
MK 21-520	21	14						95/55 435/55
MK 22-520	22	14	150	120				
MK 22B-520	22	40			95-120	95	95/15	
MK 23-520	23	14						105/75 120/70
MK 25-520	25	14	185	150				490/65 550/70
MK 25B-520	25	40			150	120	44/32 50/30	
MK 28-520	28	14	240				120/20	
MK 28B-520	28	40			185	150-185	125/30 150/25	
MK 30-520	30	17		185				
MK 30B-520	30	40					95/55 170/40	
MK 32-520	32	17	300				185/30	
MK 32B-520	32	40			240			
MK 34-520	34	17		240				
MK 34B-520	34	40			300	240	105/75 120/70	
MK 38-520	38	17	400				210/35 210/50	
MK 38B-520	38	40			400	300	230/30 240/40	
MK 42-520	42	17	500				265/35 300/50	
MK 42B-520	42	40					305/40 340/30	
MK 44-520	44	17	625				380/50 385/35	
MK 44B-520	44	40			500			
MK 46-520	46	25		500				
MK 46B-520	46	40					435/55 450/40	
MK 50-520	50	25		625				
MK 50B-520	50	40					495/35 510/45	
MK 52-520	52	25	800				490/65	
MK 52B-520	52	40			625		570/40 580/50	
							550/70	
MK 58-520	58	25	1000		800		650/45 680/85	
MK 60-520	60	25			1000			

- On request:
- periodic calibration of DIN crimping dies with test certificate
 - Special dies (for example MK62B-520)

Description	Order ref.	Dimensions	approx.
Hydraulic compression head 520kN - Set	PP520	410x360x130mm	12.0 kg

Description	Order ref.	for crimping dies	approx.
Hexagon crimping die DIN48083	AD520-130	C-Form	2.25 kg

Hydraulic compression head – 1000kN

Designed to crimp terminals and connectors up to a maximum of 1000kN (1600 mm² cable cross section)

Crimping dies for PP1000



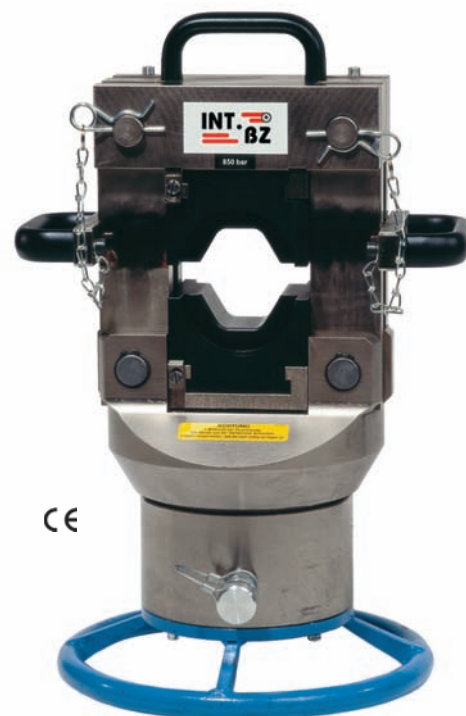
Hexagon crimping dies

according to DIN 48083 for connectors according to DIN 46235, Cu, Al und Al/St

Order ref.	Code No.	Compr. width	Cross section (mm ²) Copper		Cross section (mm ²) Aluminium stranded		Cross section (mm ²) Aluminium-Steel	
			tension free	full tension	tension free	full tension	Al Sleeve	St Sleeve
MK 13-1000	13	25						120/20 150/25
MK 15-1000	15	25						44/32 50/30 125/30 170/40 185/30 210/35 230/30 240/40 265/35 305/40 340/30 385/35 450/40 495/35 570/40
MK 17-1000	17	25						210/50 300/50 380/50 510/45 560/50 650/45 1045/45
MK 19-1000	19	25						95/55 435/55
MK 21-1000	21	25						105/75 120/70 490/65 550/70
MK 23-1000	23	25						680/85
MK 25-1000	25	25	185	150				
MK 25B-1000	25	40			150	120	44/32 50/30 120/20	
MK 28-1000	28	25	240					
MK 28B-1000	28	40			185	150-185	125/30 150/25	
MK 30-1000	30	25		185				
MK 30B-1000	30	40					95/55 170/40 185/30	
MK 34-1000	34	25		240				
MK 34B-1000	34	40			300	240	105/75 120/70 210/35 210/50 230/30 240/40	
MK 38-1000	38	25	400					
MK 38B-1000	38	40			400	300	265/35 300/50 305/40 340/30	
MK 42-1000	42	25	500					
MK 42B-1000	42	40					380/50 385/35	
MK 46-1000	46	25		500				
MK 46B-1000	46	40					435/55 450/40	
MK 50-1000	50	25		625				
MK 50B-1000	50	40					495/35 510/45 490/65	
MK 52-1000	52	25	800					
MK 52B-1000	52	40			625		570/40 560/50 550/70	
MK 58-1000	58	25	1000					
MK 58B-1000	58	40			800		650/45 680/85	
MK 60B-1000	60	40			1000			
MK 62B-1000	62	60					1045/45	

► On request:

- periodic calibration of DIN crimping dies with test certificate
- Special dies



CE

Order ref.
PP1000

- The compression head must be combined with a hydraulic pump (Maximum pressure 850bar/85MPa).

Description	Order ref.	Dimensions	approx.
Hydraulic compression head 1000kN	PP1000	530x350x290mm	61.0 kg

Hydraulic tools for working on bus bars

Designed to bend, perforate, cut and make elbow-bends on bus bars up to 120 x 12mm in size made of copper or aluminium. To operate it must be combined with an electro - hydraulic pump (Maximum pressure 700bar / 70 MPa).



Order ref.
BLS-120

BLS-120 - Power rail work station

► Technical Characteristics:

- Sturdy and compact, suitable for use in workshops and on construction sites
- Composed of a base unit and a variety of work tools, interchangeable depending on the task being performed
- Simple and quick tool changing
- The electrical proximity switch guarantees 100% bending repeatability
- The work bench adjusts in height with a side stop to make holes without tracing and measuring
- Quick automatic-lock connection and undetachable dust cap
- Cutting tool for clean burr-free cuts by special shape of the blade
- Bending tool permits to bend the power rail in a single procedure
- Perforate and cutting laminated power rails and earthing strips
- Force generated:..... max. 185kN
- Operating pressure: 700bar (70MPa)
- Power rail width: up to 120mm
- Power rail thickness: up to 12mm

Description	Order ref.	Dimensions	approx.
Power rail work station	BLS-120	480x500x360mm	53.0 kg

Bending tool



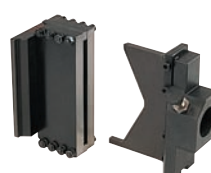
Order ref.
BLS-R

Bending female die



Order ref.
BLS-M

Cutting tool



Order ref.
BLS-S

Cutting tool



Order ref.
BLS-SL

Joddle Tool



Order ref.
BLS-SL

Perforation Tool I



Order ref.
BLS-L

Perforation Tool IV



Order ref.
BLS-L4



Order ref.
LSK120

Hydraulic punching head – 120 x 12mm

Designed to punch power rails (dimensions up to 120 x 12mm) made of copper, aluminium or steel with tensile strength up to 470N/mm²

LSK120 – Hydraulic Punching Head

► Technical Characteristics:

- Strong and compact structure
- "C" Head for easy positioning of the power rails.
- Easy inserting of inserts (die and punch)
- Also useable on mounted rails without disassembly
- Quick automatic-lock connection and undetachable dust cap
- Possible to punch holes central holes in power rails up to 120mm
- Punching Force:..... max. 218kN
- Operating pressure: 700bar (70MPa)

► Functional range for the following rails:

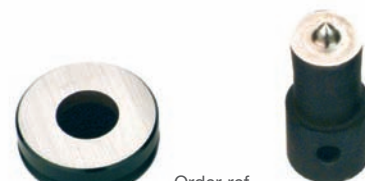
- Cu/Al till rail thickness 12mm max. Ø 21.0mm
- Steel till rail thickness 8mm max. Ø 21.0mm
- Steel till rail thickness 9mm max. Ø 19.5mm
- Steel till rail thickness 12mm max. Ø 14.0 mm

Description	Order ref.	Dimensions	approx.
Hydraulic punching head	LSK120	234x174x88mm	9.3 kg

► The Hydraulic Punching Head must be combined with a hydraulic pump (Maximum pressure 700bar/70MPa).

Dies and punches for BLS-L and LSK120

Description	Round hole ø	Order ref. female die	Order ref. Punch
• Round hole-punch and female dies for massive rails	6,0mm	LSR06,0M	LSR06,0S
	6,5mm	LSR06,5M	LSR06,5S
	7,0mm	LSR07,0M	LSR07,0S
	8,0mm	LSR08,0M	LSR08,0S
	8,5mm	LSR08,5M	LSR08,5S
	9,0mm	LSR09,0M	LSR09,0S
	10,0mm	LSR10,0M	LSR10,0S
	10,5mm	LSR10,5M	LSR10,5S
	11,0mm	LSR11,0M	LSR11,0S
	12,0mm	LSR12,0M	LSR12,0S
	12,5mm	LSR12,5M	LSR12,5S
	13,0mm	LSR13,0M	LSR13,0S
	13,5mm	LSR13,5M	LSR13,5S
	14,0mm	LSR14,0M	LSR14,0S
	14,5mm	LSR14,5M	LSR14,5S
	15,0mm	LSR15,0M	LSR15,0S
	16,0mm	LSR16,0M	LSR16,0S
	17,0mm	LSR17,0M	LSR17,0S
	18,0mm	LSR18,0M	LSR18,0S
	18,5mm	LSR18,5M	LSR18,5S
	19,0mm	LSR19,0M	LSR19,0S
	19,5mm	LSR19,5M	LSR19,5S
	20,0mm	LSR20,0M	LSR20,0S
	21,0mm	LSR21,0M	LSR21,0S
Description	Longitudinal slot	Order ref. female die	Order ref. Punch
• Longitudinal slot punch and female dies for massive rails	5,5x11,0mm	LSL05,5x11,0M	LSL05,5x11,0S
	6,5x13,0mm	LSL06,5x13,0M	LSL06,5x13,0S
	9,0x18,0mm	LSL09,0x18,0M	LSL09,0x18,0S
	11,0x20,0mm	LSL11,0x20,0M	LSL11,0x20,0S
	12,5x20,0mm	LSL12,5x20,0M	LSL12,5x20,0S
	13,0x17,0mm	LSL13,0x17,0M	LSL13,0x17,0S
	13,0x20,0mm	LSL13,0x20,0M	LSL13,0x20,0S
	14,0x20,0mm	LSL14,0x20,0M	LSL14,0x20,0S
	17,0x20,0mm	LSL17,0x20,0M	LSL17,0x20,0S


Order ref.
LSR...

Order ref.
LSL...

Dies and punches for BLS-L4

Round hole punch and female die for laminated and solid power rails

Description	ø	Order ref female die	Order ref. punch	Order ref stripper
• Round hole punch and female dies for laminated and solid rails	6,5mm	LS4R06,5M	LS4R06,5S	LS4R06,5N
	7,0mm	LS4R07,0M	LS4R07,0S	LS4R07,0N
	8,5mm	LS4R08,5M	LS4R08,5S	LS4R08,5N
	9,0mm	LS4R09,0M	LS4R09,0S	LS4R09,0N
	10,0mm	LS4R10,0M	LS4R10,0S	LS4R10,0N
	10,5mm	LS4R10,5M	LS4R10,5S	LS4R10,5N
	11,0mm	LS4R11,0M	LS4R11,0S	LS4R11,0N
	12,0mm	LS4R12,0M	LS4R12,0S	LS4R12,0N
	13,0mm	LS4R13,0M	LS4R13,0S	LS4R13,0N
	14,0mm	LS4R14,0M	LS4R14,0S	LS4R14,0N
	14,5mm	LS4R14,5M	LS4R14,5S	LS4R14,5N
	15,0mm	LS4R15,0M	LS4R15,0S	LS4R15,0N
	17,0mm	LS4R17,0M	LS4R17,0S	LS4R17,0N
	18,0mm	LS4R18,0M	LS4R18,0S	LS4R18,0N
	19,0mm	LS4R19,0M	LS4R19,0S	LS4R19,0N
	21,0mm	LS4R21,0M	LS4R21,0S	LS4R21,0N


Order ref.
LS4R...

➤ INFORMATION: different diameters on request

Longitudinal hole punch and female dies for laminated and solid power rails

Description	ø	Order ref female die	Order ref. punch	Order ref. stripper
• Round hole punch and female dies for laminated and solid rails	6,5x13,0	LS4L06,5x13,0M	LS4L06,5x13,0S	LS4L06,5x13,0N
	10,5x13,0	LS4L10,5x13,0M	LS4L10,5x13,0S	LS4L10,5x13,0N
	8,5x16,0	LS4L08,5x16,0M	LS4L08,5x16,0S	LS4L08,5x16,0N
	6,5x21,0	LS4L06,5x21,0M	LS4L06,5x21,0S	LS4L06,5x21,0N
	8,0x20,0	LS4L08,0x20,0M	LS4L08,0x20,0S	LS4L08,0x20,0N
	9,0x20,0	LS4L09,0x20,0M	LS4L09,0x20,0S	LS4L09,0x20,0N
	13,0x17,0	LS4L13,0x17,0M	LS4L13,0x17,0S	LS4L13,0x17,0N
	11,0x20,0	LS4L11,0x20,0M	LS4L11,0x20,0S	LS4L11,0x20,0N
	13,0x20,0	LS4L13,0x20,0M	LS4L13,0x20,0S	LS4L13,0x20,0N
	14,0x20,0	LS4L14,0x20,0M	LS4L14,0x20,0S	LS4L14,0x20,0N
	17,0x20,0	LS4L17,0x20,0M	LS4L17,0x20,0S	LS4L17,0x20,0N


Order ref.
LS4L...

➤ INFORMATION: different diameters on request

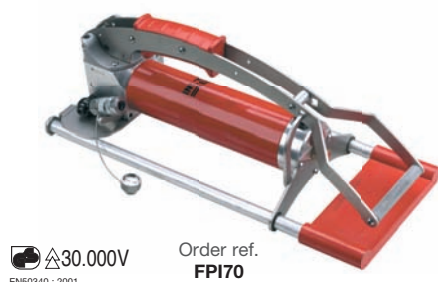
Hydraulic operated pumps

Designed to operate hydraulic heads with up to 700bar or 850bar pressures (70MPa/85MPa)

FPI70 / FPI85 – Foot operated hydraulic Pump

Designed to operate hydraulic heads with up to 700bar or 850bar pressures (70MPa/85MPa) (see page 4)

On request with 850bar (85MPa) operating pressure (FPI85).



Order ref.
FPI70

30.000V
EN50340 : 2001

► Technical Characteristics:

- Lightweight due to use of light alloys and corrosion-resistant materials
- Handy and stable due to a firm fitting pedal and sturdy no slip base
- Automatic two speed device (fast advancing under no-load and slow under load)
- Pressure monitoring by oil pressure gauge
- Manual pressure release at any time
- High mounted quick release coupling with dust cap
- Operating pressure: 700bar/850bar (70MPa)/(85MPa)
- Low pressure pump capacity: 18,3cm³/Hub
- High pressure pump capacity: 2cm³/Hub
- Oil quantity: 1200ml
- Operating temperature: -10°C to +40°C

ANP 24/220 – Combined electro hydraulic battery and mains pump

Designed to operate hydraulic tools up to 700bar (70MPa).

On request with 850bar (85MPa) operating pressure.



Order ref.
ANP24/220

CE

► Technical Characteristics:

- Battery-operated or mains-operated
- High pump performance by 2 stages (fast and slow)
- Remote control push-button
- Manual pressure release at any time
- Automatic pressure release when maximum force is achieved
- Engine brake to prevent coast down
- Fitted battery charger with battery condition indicator
- Quick automatic-lock connection and undetachable dust cap
- Pump capacity: 0.4l/min – 0.7l/min
- Mains voltage: 230V - 50Hz
- Cell voltage: 2 x 12V
- Motor rating: 360W
- Protection class: IP43
- Operating temperature: -10°C to +40°C

KV24 – Insulated cable shears with battery operated pump

Suitable for safely cutting copper or aluminium wires of various diameters (see page 4).



Order ref.
KV24

30.000V

CE

► Technical Characteristics:

- Battery power supply
- Partial or total pressure release at any time using a remote control system (5 meter cable length)
- Automatic pressure release when maximum force is reached
- Possibility of coupling cable shearing heads together (see page B-28)
- Built-in battery charger with display of the state of charge of the battery
- Degree of protection IP43
- Motor power: 370W
- Battery capacity: 14.4Ah
- Battery voltage: 24V
- Delivery rate: 0.5 l/min.
- Operating temperature: -20°C to +40°C
- Operating pressure: 625bar (62,5MPa)

NP220-1 and NP220-2 – Mains operated hydraulic Pump

Designed to operate hydraulic tools up to 700bar (70MPa)

On request with 850bar (85MPa) operating pressure.



Order ref.
NP220-1

Order ref.
NP220-2

CE

► Technical Characteristics:

- Mains-operated
- High pump performance by 2 stages (fast and slow only NP220-2)
- High pump performance in application of large cross-sections and power rails processing
- Protection support
- Remote control push-button
- Oil check by external sensor
- Engine brake to prevent coast down
- Quick automatic-lock connection and undetachable dust cap
- Pump capacity: 0.6l/min (NP220-1)
..... 0.6l/min – 1.1l/min. (NP220-2)
- Mains voltage: 230V - 60Hz
- Motor rating: 750W
- Protection class: IP54
- Operating temperature: -10°C to +40°C

Description	Order ref.	Dimensions	approx.
Foot operated hydraulic pump 700bar	FPI70	550x350x180mm	19.0 kg
Pump for battery and power supply	ANP24/220	325x345x225mm	20.0 kg
Insulated cable shears (without cuttinghead)	KV24	450x230x360mm	28.0 kg
Pump 1 stage for power supply	NP220-1	370x185x490mm	25.0 kg
Pump 2 stage for power supply	NP220-2	370x185x490mm	25.0 kg

Accessories designed for the pumps

Flexible hose 3-10m



with armor

Order ref.
SCHA...

Flexible hose 3-10m



without armor

Order ref.
SCH...

Foot operated switch



Order ref.
FS01

Voltage transformer



Order ref.
SW12/220

Storage battery for hydr. pump



Order ref.
EA24-1

Accessory Bag



Order ref.
TTP201

Remote control extension cable



Order ref.
KABEL5

Accessories designed for battery-operated hydraulic tools

Strap



Order ref.
TG1

Storage Battery 12V Ni/MH



Order ref.
RA4



Order ref.
RA5

Storage Battery 14,4V Ni/MH



Order ref.
RA6



Order ref.
RA7



Order ref.
RA8

Adapter



Order ref.
NG2

Battery Charger



Order ref.
LG4



Order ref.
LG6



Order ref.
LGZ1

Technical characteristics – Battery charger				Working voltage DC					Storage battery				
				4,8 V	7,2 V	9,6 V	12,0 V	14,4 V	RA 4	RA 5	RA 6	RA 7	RA 8
LG4	220V -240V ~	50 - 60 Hz	70 W	•	•	•	•	•	✓	✓	✓	✓	X
LG5	220V -240V ~	50 - 60 Hz	220 W	-	•	•	•	•	✓	✓	✓	✓	X
LG6	220V -240V ~	50 - 60 Hz	70 W	•	•	•	•	•	✓	✓	✓	✓	✓
LGZ	12V DC	-	70 W	-	•	•	•	•	✓	✓	✓	✓	X
LGZ1	12V -24V DC	-	70 W	-	-	•	•	•	✓	✓	✓	✓	✓

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