

DALEX

SCHWEISSTECHNIK

ACCESSORIES

DALEX SCHWEISSTECHNIK

ACCESSORIES MANUAL WELDING GUNS



DALEX Schweißmaschinen GmbH & Co. KG

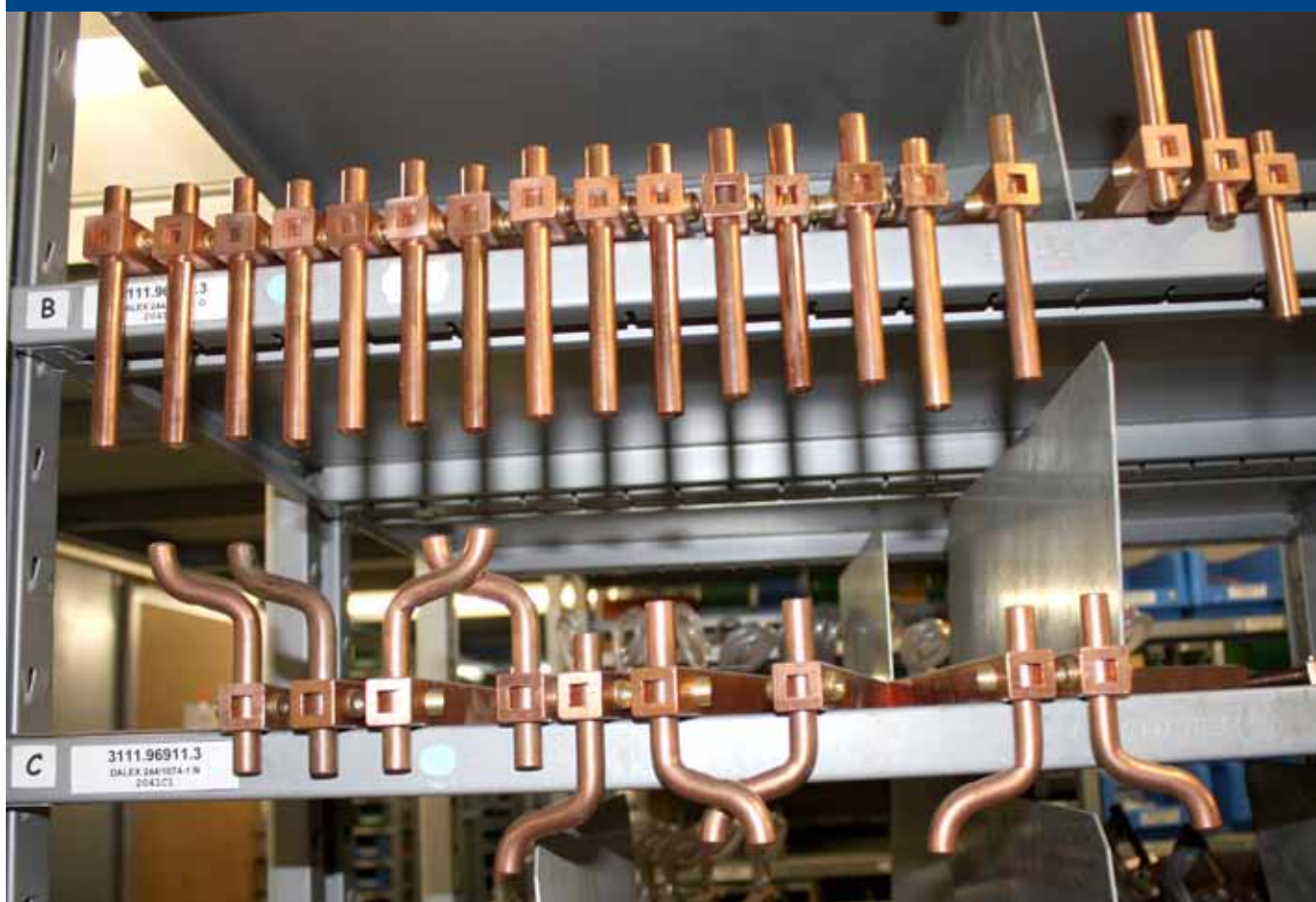


ERFAHRUNG SCHWEISST ZUKUNFT
EXPERIENCE WELDS FUTURE

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ACCESSOIRES FOR WELDING GUNS



EXPERTISE

EXPERIENCE

AUTOMATION

CD-WELDING
ROBOTIC GUNS

KNOW
HOW

DEVELOPMENT
HANDGUNS
MF-TRAFO

SEAM WELING
SPECIAL SOLUTIONS
COMPETENCE

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ADDITIONAL FEATURES A 3112

suspension strap with clamps

special-electrode material DA 12 mm Ø

special-extension cable 3 x 4 m², with control line,
plug and coupling socket, length 5 m

square tube V 20 N for electrode arms

For cleaning of spot electrodes:

ratchet for crowned surfaces

polishing block no. 120

additional features for A 3112

description	unit	order-no.
suspension strap	Stück	A3111_95585.3
special electrode material	per m	RD_12.0_QUAL_1A
special-extension cable	5 m	5_S.59.96985.3
square tube V20N	per m	3111.14999.0
ratchet f.crowned surface	Stück	X_35540
polishing block	Stück	X_SCHLEIFFIX_120

ADDITIONAL FEATURES 3228 / 3228

compressed-air hose with textil inlay, oil-resistant NG 10

threaded hose clamp NG 6 and NG 8

high pressure water hose with textile inlay NG 8

air servicing oil

maintenance unit for compressed air NG 10

additional features for 3228 / 3228

description	unit	order-no.
compressed-air hose	per m	029_3133.0
threaded hose clamp	piece	029_3580.0
high pressure water hose	per m	029_3128.0
air servicing oil (can)	0,5 l	2405095
maintenance unit compr.air	piece	Z_18.53101.3

ADDITIONAL FEATURES 3328-6

compressed-air hose with textil inlay, oil-resistant NG 10

threaded hose clamp NG 10

high pressure water hose with textile inlay NG 8

air servicing oil

maintenance unit for compressed air

sliding unit
(necessary for electrode arms with 800 mm throat)

spot welding electrodes:

for the spot welding gun 3328-6 you can use

electrodes with seat no. 8

(types that begin with the number 8 e.g. 8 B 25)

additional features for 3328-6

description	unit	order-no.
compressed-air hose	per m	029_3133.0
threaded hose clamp	piece	029_3581.0
high pressure water hose	per m	029_3128.0
air servicing oil (can)	0,5 l	2405095
maintenance unit compr.air	piece	Z_18.53101.3
sliding unit	piece	SZ.77141.1

We reserve the right to change technical details.

ADDITIONAL FEATURES

3329 / 3346 / 3349 / 3528

compressed-air hose with textil inlay, oil-resistant NG 10

threaded hose clamp NG 6 and NG 8

threaded hose clamp NG 10 and NG 13

high pressure water hose with textile inlay NG 8

air servicing oil

maintenance unit for compressed air NG 10
for 3329/3346

maintenance unit for compressed air NG 13
for 3349/3528

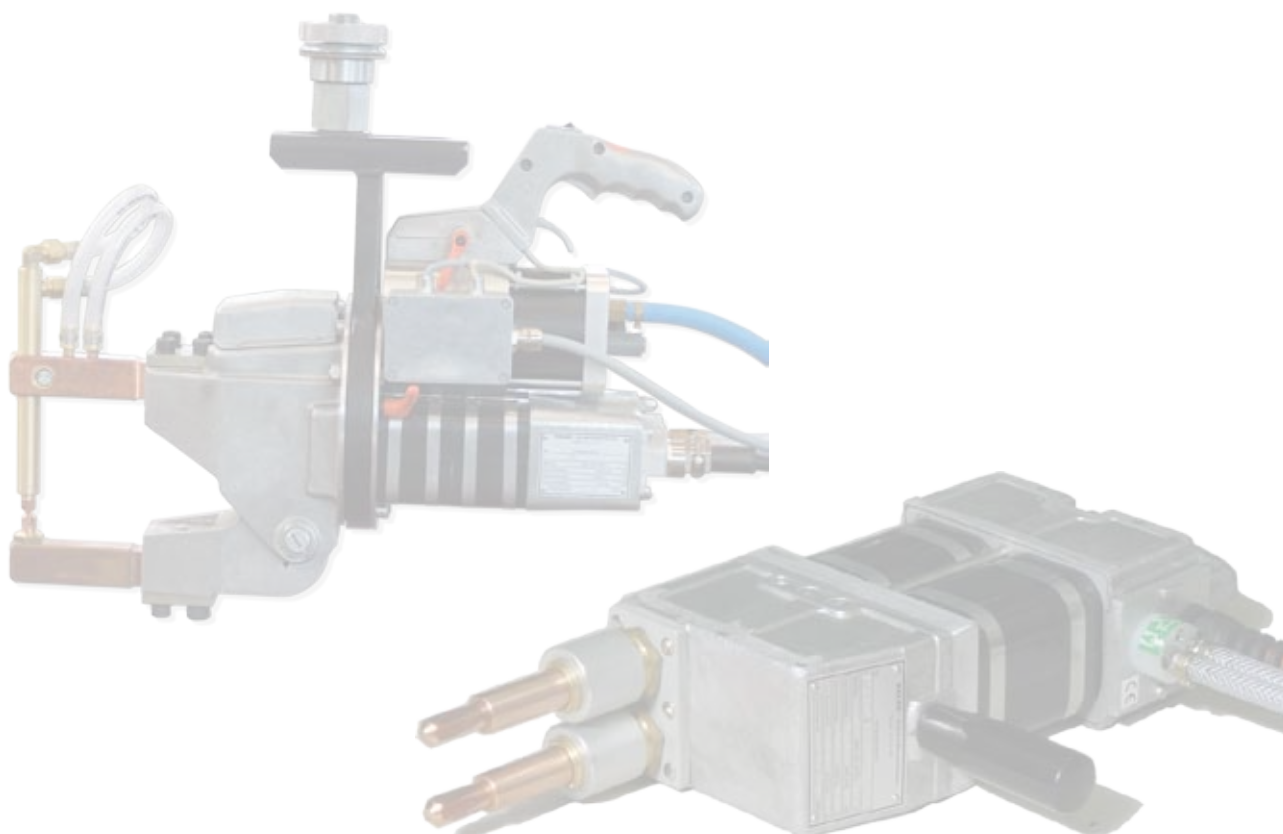
intermediate piece for arm gap 270 mm
for 3329

electrode holder complete, 25 mm Ø
with electrode 2 A 39, 290 mm
for 3329

sliding unit
for 3329
(necessary for electrode arms with long throat)

additional features for 3329 / 3346 / 3349 / 3528

description	unit	Order-no.
compressed-air hose	per m	029_3133.0
threaded hose clamp NG 6 / NG 8	piece	029_3580.0
threaded hose clamp NG 10 / NG 13	piece	029_3581.0
high pressure water hose	per m	029_3128.0
air servicing oil (can)	0,5 l	2405095
maintenance unit for compressed air NG 10	piece	Z_18.53101.3
maintenance unit for compressed air NG 13	piece	Z_18.53102.3
intermediate piece	piece	3326_3.51154.3
electrode holder complete	piece	3326.51975.3
sliding unit	piece	SZ.77141.1

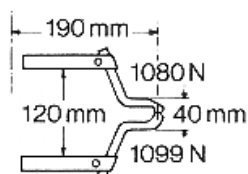
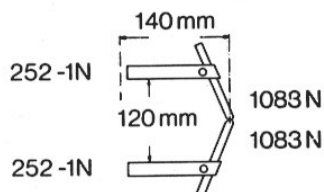
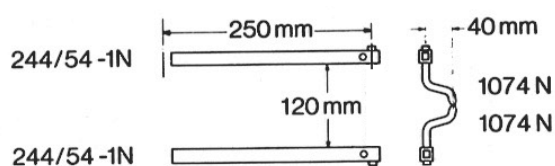
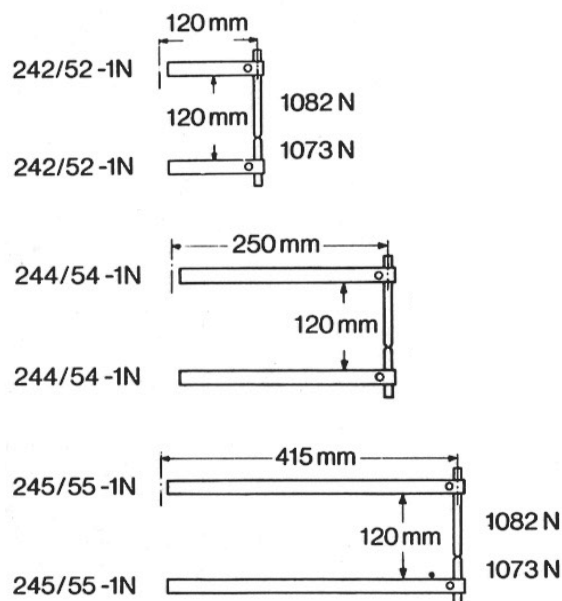


We reserve the right to change technical details.

SQUARE TUBE ELECTRODE ARMS

A 3112

- made of drawn, electrolyte hard copper
- complete with spot welding electrodes made of 12 mm Ø DA-material
- with clamping piece



standard electrode arms, complete

throat	type	position	order-no..
120 mm	242/52 N	upper	3111.96805.3
		lower	3111.96806.3
250 mm	244/54 N	upper	3111.96807.3
		lower	3111.96908.3
415 mm	245/55 N	upper	3111.96909.3
		lower	3111.96910.3

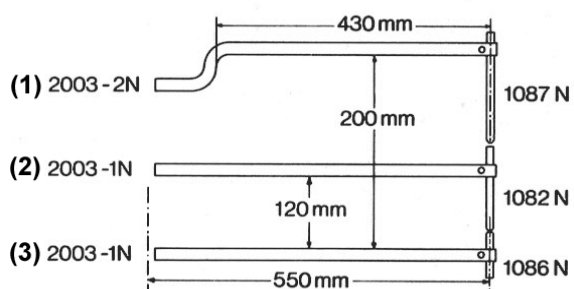
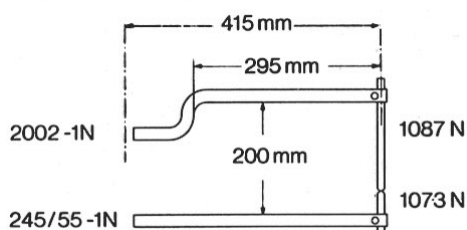
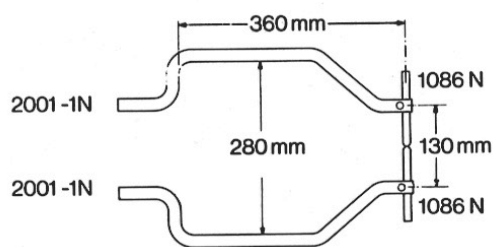
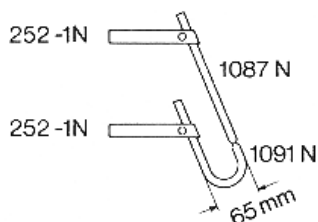
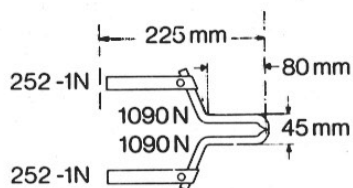
electrode arms for car body repairs complete

throat	type	position	order-no.
250 mm	244/1074 N	upper	3111.96911.3
		lower	3111.96911.3
140 mm	252 N	upper	3111.96912.3
		lower	3111.96912.3
190 mm	252/1080-99N	upper	3111.96916.3
		lower	3111.36317.3

SQUARE TUBE ELECTRODE ARMS

A 3112

- made of drawn, electrolyte hard copper
- complete with spot welding electrodes made of 12 mm Ø DA-material
- with clamping piece



electrode arms for car body repairs complete

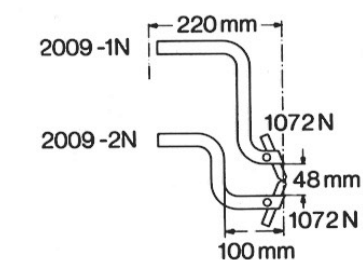
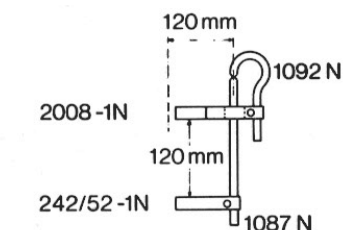
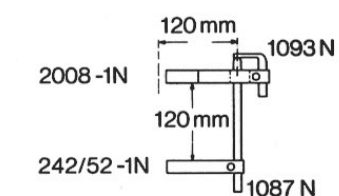
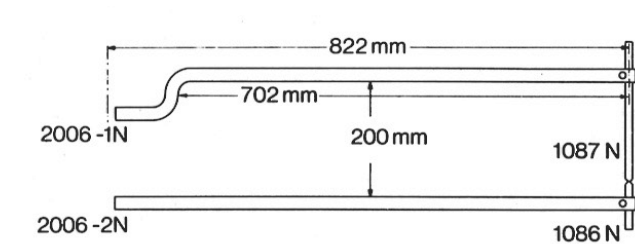
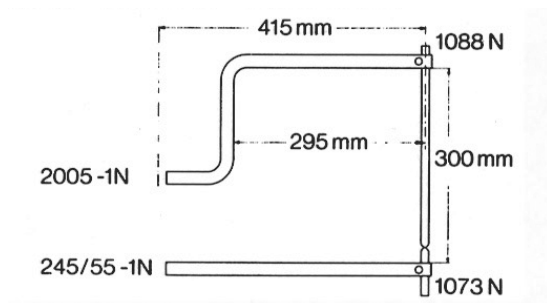
throat	type	position	order-no.
225 mm	252/1090 N	upper	3111.96913.3
		lower	3111.96913.3
	252/1091-87N	upper	3111.96914.3
		lower	3111.96915.3
360 mm	2001 N	upper	3111.96918.3
		lower	3111.36318.3
415 mm	2002 N	upper	3111.96919.3
		lower	3111.96910.3
450 mm	2003 N		
(1)	2003-2N/1087N	upper	3111.96922.3
(2)	2003-1N/1082N	upper	3111.96923.1
(3)	2003-2N/1086N	lower	3111.96924.3

2003 N 3-parts
top arm straight and curved

SQUARE TUBE ELECTRODE ARMS

A 3112

- made of drawn, electrolyte hard copper
- complete with spot welding electrodes made of 12 mm Ø DA-material
- with clamping piece



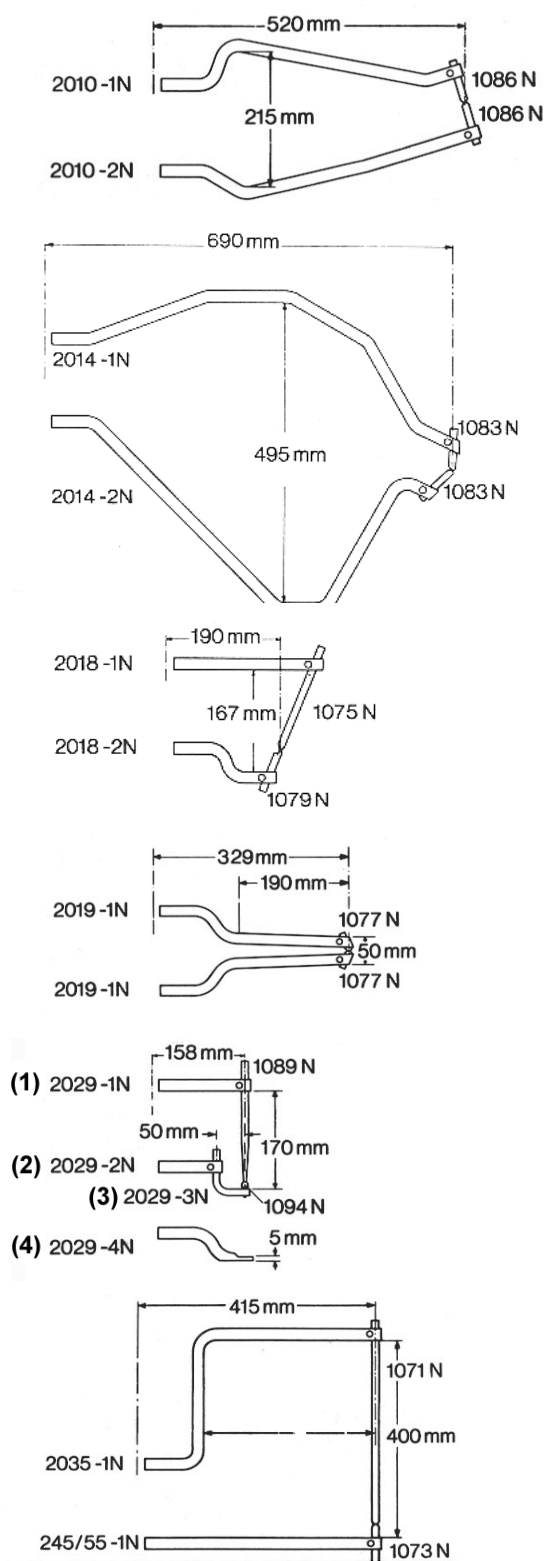
electrode arms for car body repairs complete

throat	type	position	order-no.
415 mm	2005 N	upper	3111.96927.3
		lower	3111.96910.3
822 mm	2006 N	upper	3111.96928.3
		lower	3111.96929.3
120 mm	2008 N	upper	3111.96930.3
		lower	3111.96931.3
120 mm	2008/1092 N	upper	3111.96932.3
		lower	3111.96931.3
220 mm	2009 N	upper	3111.96933.3
		lower	3111.96934.3

SQUARE TUBE ELECTRODE ARMS

A 3112

- made of drawn, electrolyte hard copper
- complete with spot welding electrodes made of 12 mm Ø DA-material
- with clamping piece



electrode arms for car body repairs complete

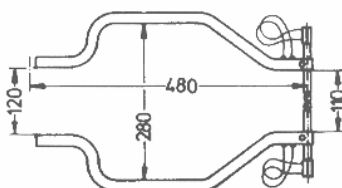
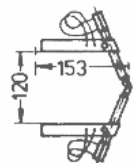
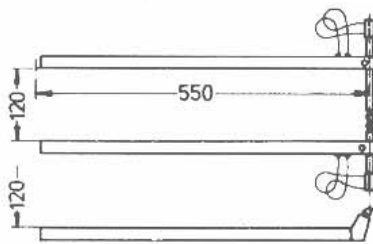
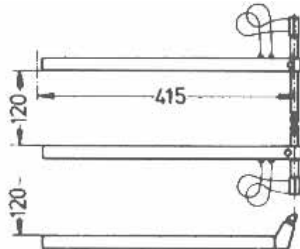
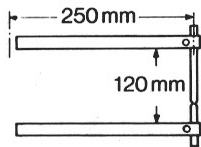
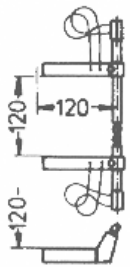
throat	type	position	order-no.
520 mm	2010 N	upper	3111.96935.3
		lower	3111.96936.3
690 mm	2014 N	upper	3111.96937.3
		lower	3111.96938.3
190 mm	2018 N	upper	3111.96939.3
		lower	3111.96940.3
329 mm	2019 N	upper	3111.96941.3
		lower	3111.96941.3
158 mm	2029 N		
(1)	2029-1/1089N	upper	3111.96942.3
(2)	2029-2 N+3	lower	3111.96943.3
(3)	2029-3N/1094	lower	3111.96925.3
(4)	2029-4 N	Winkel	3111.96976.0
415 mm	2035 N	upper	3111.96944.3
		lower	3111.96910.3

We reserve the right to change technical details.

SQUARE TUBE ELECTRODE ARMS

A 3119 / A 3139 EXECUTION A

- made of drawn, electrolyte hard copper or drawn, copper-chromium alloy
- complete water-cooled
- including spot welding electrodes



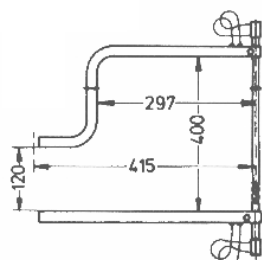
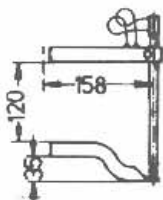
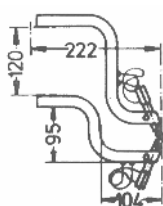
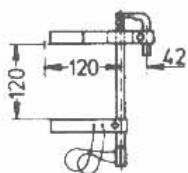
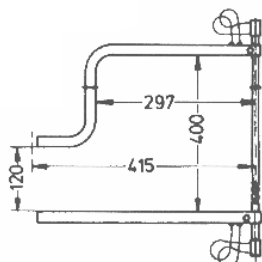
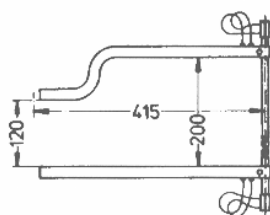
electrode arms, complete water-cooled

throat	type	position	order-no.
120 mm	o-242-1 K	upper	3116.51652.3
	u-242-1 K	lower	3116.51653.3
	V20/6/120 s	schräg	3116.51384.3
	V20/6/120 g	gerade	120_3116.96440.3
250 mm	o-244/54-1 K	upper	3116.51654.3
	u-244/54-1 K	lower	3116.51655.3
	V20/6/415 s	schräg	3116.51386.3
450 mm	o-245/55-1 K	upper	3116.51656.3
	u-245/55-1 K	lower	3116.51657.3
	V20/6/415 s	schräg	3116.51387.3
550 mm	o-2003-1 K	upper	3116.51658.3
	u-2003-1 K	lower	3116.51659.3
	V20/6/550 s	schräg	3116.51388.3
153 mm	252 K	upper	3116.51660.3
	252 K	lower	3116.51660.3
480 mm	2001 K	upper	3116.51661.3
	2001 K	lower	3116.51661.3

SQUARE TUBE ELECTRODE ARMS

A 3119 / A 3139 EXECUTION A

- made of drawn, electrolyte hard copper or drawn, copper-chromium alloy
- complete water-cooled
- including spot welding electrodes



electrode arms, complete water-cooled

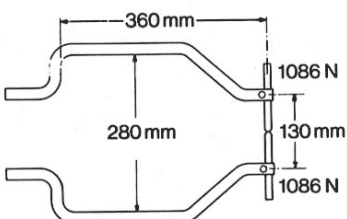
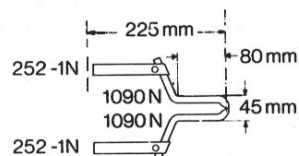
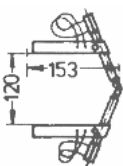
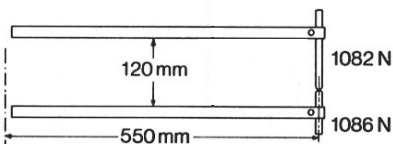
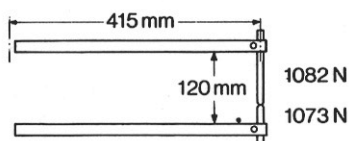
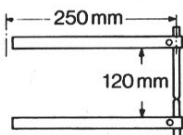
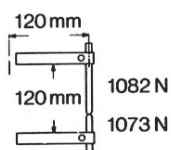
throat	type	position	order-no.
415 mm	2002 K	upper	3116.51653.3
	245/55-1 K	unten	3116.51657.3
415 mm	2005 K	upper	3116.51633.3
	245/55-1 K	lower	3116.51657.3
120 mm	2008 K	upper	3116.51669.3
	u-242-1 K	lower	3116.51670.3
222 mm	2009-1 K	upper	3116.516671.3
	2009-2 K	lower	3116.516672.3
158 mm	2029-1 K	upper	3116.51683.1
	2029-4 K	lower	3116.51399.3
415 mm	2035 K	upper	3116.51668.3
	u-245/55-1 K	lower	3116.51657.3

We reserve the right to change technical details.

SQUARE TUBE ELECTRODE ARMS

A 3119 / A 3139 EXECUTION B

- made of drawn, electrolyte hard copper or drawn, copper-chromium alloy
- electrode arms water-cooled
- spot welding electrodes uncooled



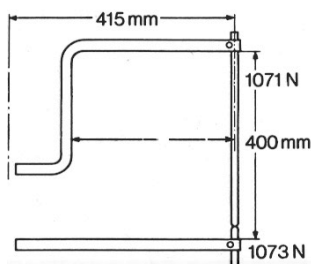
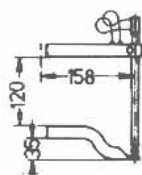
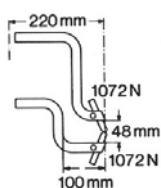
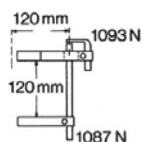
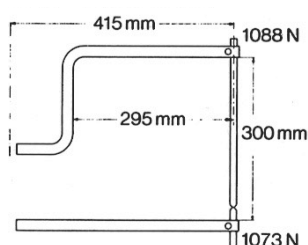
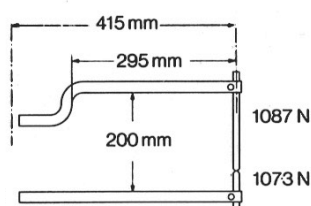
electrode arms, water-cooled

throat	type	position	order-no.
120 mm	o-242-1 KuE	upper	3119.96953.3
	u-242-1 KuE	lower	3119.96954.3
250 mm	o-244/54-1KuE	upper	3119.96956.3
	u-244/54-1KuE	lower	3119.96957.3
415 mm	o-245/55-1KuE	upper	3119.96959.3
	u-245/55-1KuE	lower	3119.96960.3
550 mm	o-2003-1 KuE	upper	3119.96962.3
	u-2003-1 KuE	lower	3119.96963.3
140 mm	252 KuE	upper	3119.96965.3
		lower	3119.96965.3
225 mm	252 /1090 KuE	upper	3119.96967.3
		lower	3119.96967.3
360 mm	2001 KuE	upper	3119.96969.3
		lower	3119.96969.3

SQUARE TUBE ELECTRODE ARMS

A 3119 / A 3139 EXECUTION B

- made of drawn, electrolyte hard copper or drawn, copper-chromium alloy
- electrode arms water-cooled
- spot welding electrodes uncooled



electrode arms, water-cooled

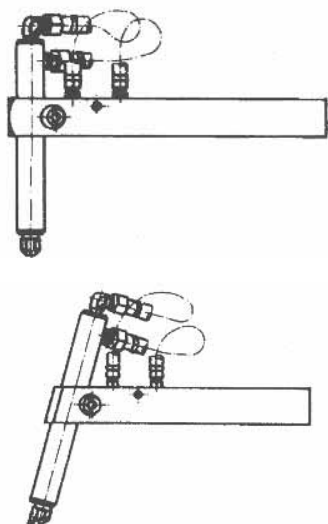
throat	type	position	order-no.
415 mm	o-2002-1 KuE	upper	3119.96971.3
	u-245/55-1KuE	lower	3119.96960.3
415 mm	2005-1 KuE	upper	3119.96973.3
	u-245/55-1KuE	lower	3119.96960.3
120 mm	2008-1 KuE	upper	3116.51669.3
	u-242-1 KuE	lower	3119.96975.3
220 mm	o-2009-1 KuE	upper	3119.96977.3
	u-2009-1 KuE	lower	3119.96978.3
158 mm	o-2029-1 KuE	upper	3119.96980.3
	2029-4 K	lower	3116.51399.3
415 mm	o-2035-1 KuE	upper	3119.96982.3
	u-245/55-1KuE	lower	3119.96960.3

We reserve the right to change technical details.

SQUARE TUBE ELECTRODE ARMS

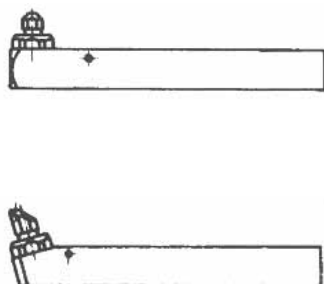
3228 / 3238

- torsion-resistant
- low deflection



upper electrode arms complete with electrode holder, clamping pieces and spot welding electrodes

throat	type	seat	order-no.
170 mm	D 30/20/170 g	straight	3218.52605.3
350 mm	D 30/20/350 g	straight	3218.52606.3
500 mm	D 30/20/500 g	straight	3218.52607.3
170 mm	D 30/20/170 s	inclined	3218.52610.3
350 mm	D 30/20/350 s	inclined	3218.52611.3
500 mm	D 30/20/500 s	inclined	3218.52612.3



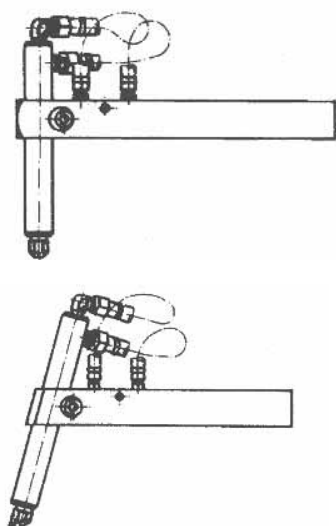
lower electrode arms complete with spot welding electrodes

throat	tpye	seat	order-no.
170 mm	D 30/1/170 g	straight	3218.52615.3
350 mm	D 30/1/350 g	straight	3218.52616.3
500 mm	D 30/1/500 g	straight	3218.52617.3
170 mm	D 30/1/170 s	inclined	3218.52620.3
350 mm	D 30/1/350 s	inclined	3218.52621.3
500 mm	D 30/1/500 s	inclined	3218.52622.3

SQUARE TUBE ELECTRODE ARMS

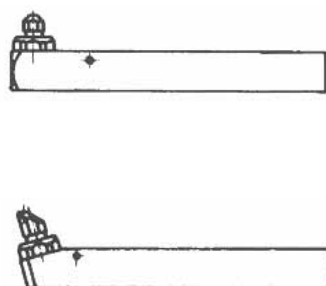
3328-6

- torsion-resistant
- low deflection
- with electron beam welded head piece



upper electrode arms complete with electrode holder, clamping pieces and spot welding electrodes

throat	type	seat	order-no.
170 mm	E 34/25/170 g	straight	3328_5.53055.3
350 mm	E 34/25/350 g	straight	3328_5.53056.3
500 mm	E 34/25/500 g	straight	3328_5.53057.3
650 mm	E 34/25/650 g	straight	3328_5.53058.3
800 mm	E 34/25/800 g	straight	3328_5.53059.3
350 mm	E 34/25/350 s	inclined	3328_5.53060.3
500 mm	E 34/25/500 s	inclined	3328_5.53061.3
650 mm	E 34/25/650 s	inclined	3328_5.53062.3
800 mm	E 34/25/800 s	inclined	3328_5.53063.3



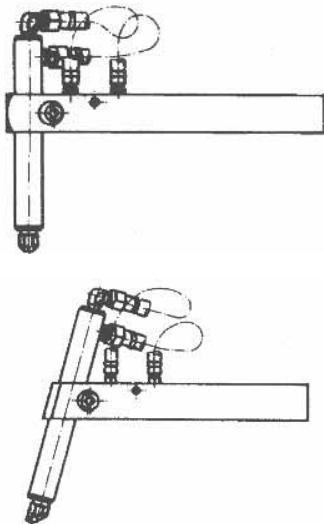
lower electrode arms complete with spot welding electrodes

throat	type	seat	order-no.
170 mm	E 34/8/170 g	straight	3328_5.97505.3
350 mm	E 34/8/350 g	straight	3328_5.97506.3
500 mm	E 34/8/500 g	straight	3328_5.97507.3
650 mm	E 34/8/650 g	straight	3328_5.97508.3
800 mm	E 34/8/800 g	straight	3328_5.97509.3
170 mm	E 34/8/170 s	inclined	3328_5.53050.3
350 mm	E 34/8/350 s	inclined	3328_5.53051.3
500 mm	E 34/8/500 s	inclined	3328_5.53052.3
650 mm	E 34/8/650 s	inclined	3328_5.53053.3
800 mm	E 34/8/800 s	inclined	3328_5.53054.3

SQUARE TUBE ELECTRODE ARMS

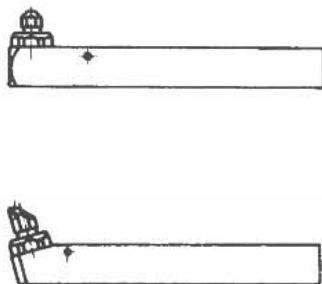
3329

- torsion-resistant
- low deflection



upper electrode arms complete with electrode holder, clamping pieces and spot welding electrodes

throat	type	seat	order-no.
170 mm	D 34/25/170 g	straight	3326.52500.3
350 mm	D 34/25/350 g	straight	3326.52501.3
500 mm	D 34/25/500 g	straight	3326.52502.3
650 mm	D 34/25/650 g	straight	3326.52503.3
800 mm	D 34/25/800 g	straight	3326.52504.3
350 mm	D 34/25/350 s	inclined	3326.52505.3
500 mm	D 34/25/500 s	inclined	3326.52506.3
650 mm	D 34/25/650 s	inclined	3326.52507.3
800 mm	D 34/35/800 s	inclined	3326.52508.3



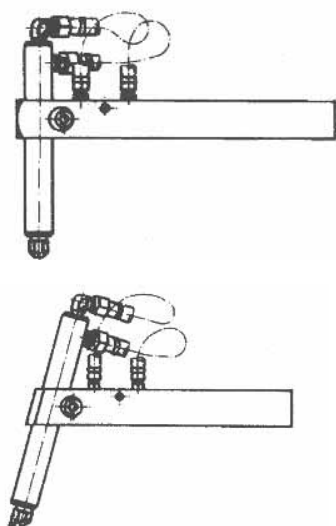
lower electrode arms complete with spot welding electrodes

throat	type	seat	order-no.
170 mm	D 34/2/170 g	straight	3326.52509.3
350 mm	D 34/2/350 g	straight	3326.52510.3
500 mm	D 34/2/550 g	straight	3326.52511.3
650 mm	D 34/2/650 g	straight	3326.52512.3
800 mm	D 34/2/800 g	straight	3326.52513.3
170 mm	D 34/2/170 s	inclined	3326.52514.3
350 mm	D 34/2/350 s	inclined	3326.52515.3
500 mm	D 34/2/500 s	inclined	3326.52516.3
650 mm	D 34/2/650 s	inclined	3326.52517.3
800 mm	D 34/2/800 s	inclined	3326.52518.3

SQUARE TUBE ELECTRODE ARMS

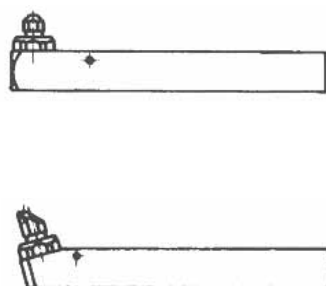
3528

- torsion-resistant
- low deflection
- with electron beam welded head piece



upper electrode arms complete with electrode holder, clamping pieces and spot welding electrodes

throat	type	seat	order-no.
170 mm	D 45/25/170 g	straight	3427.52637.3
350 mm	D 45/25/350 g	straight	3427.52638.3
500 mm	D 45/25/500 g	straight	3427.52639.3
650 mm	D 45/25/650 g	straight	3427.52640.3
800 mm	D 45/25/800 g	straight	3427.52641.3
350 mm	D 45/25/350 s	inclined	3427.52642.3
500 mm	D 45/25/500 s	inclined	3427.52643.3
650 mm	D 45/25/650 s	inclined	3427.52644.3
800 mm	D 45/25/800 s	inclined	3427.52645.3



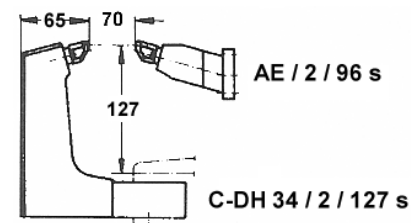
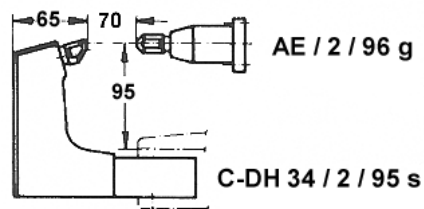
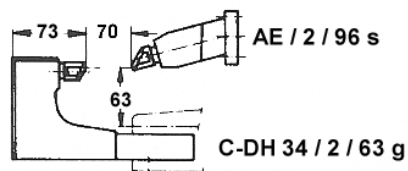
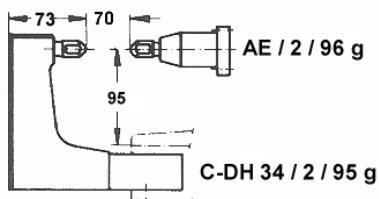
lower electrode arms complete with spot welding electrodes

throat	type	seat	order-no.
170 mm	D 45/2/170 g	straight	3427.52646.3
350 mm	D 45/2/350 g	straight	3427.52647.3
500 mm	D 45/2/500 g	straight	3427.52648.3
650 mm	D 45/2/650 g	straight	3427.52649.3
800 mm	D 45/2/800 g	straight	3427.52650.3
170 mm	D 45/2/170 s	inclined	3427.52651.3
350 mm	D 45/2/350 s	inclined	3427.52652.3
500 mm	D 45/2/500 s	inclined	3427.52653.3
650 mm	D 45/2/650 s	inclined	3427.52654.3
800 mm	D 45/2/800 s	inclined	3427.52655.3

SQUARE TUBE ELECTRODE ARMS

3346 / 3349

- electrode arms in C-form
- including spot welding electrodes



square tube electrode arms, lower electrode arm with flange-on electrode holder

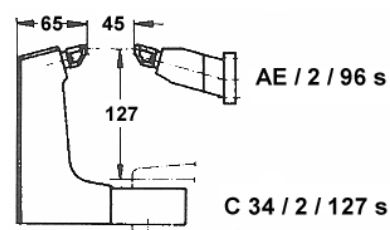
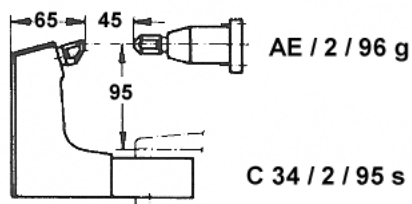
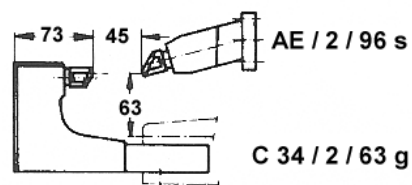
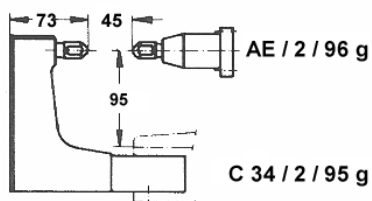
throat	type	seat	order-no.
95 mm	C 34/2/95 g	straight	3346.51403.3
	AE 2/96 g	straight	3346.51401.3
63 mm	C 34/2/63 g	straight	3346.51404.3
	AE 2/96 s	inclined	3346.51402.3
95 mm	C 34/2/95 s	inclined	3346.51405.3
	AE 2/96 g	straight	3346.51401.3
127 mm	C 34/2/127 s	inclined	3346.51406.3
	AE 2/96 s	inclined	3346.51402.3



SQUARE TUBE ELECTRODE ARMS

3346 / 3349 DOPPELHUB (DH)

- electrode arms in C-form
- including spot welding electrodes



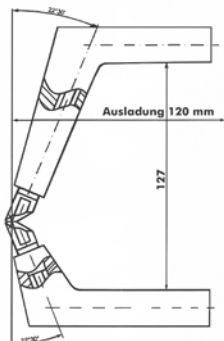
square tube electrode arms, lower electrode arm with flange-on electrode holder

throat	type	seat	order-no.
95 mm	C-DH 34/2/95 g	straight	3348.96630.3
	AE 2/96 g	straight	3346.51401.3
63 mm	C-DH 34/2/63 g	straight	3348.96631.3
	AE 2/96 s	inclined	3346.51402.3
95 mm	C-DH 34/2/95 s	inclined	3348.96632.3
	AE 2/96 g	straight	3346.51401.3
127 mm	C-DH 34/2/127s	inclined	3348.96633.3
	AE 2/96 s	inclined	3346.51402.3



SPECIAL SQUARE TUBE ELECTRODE ARMS

A 3119 / A3139



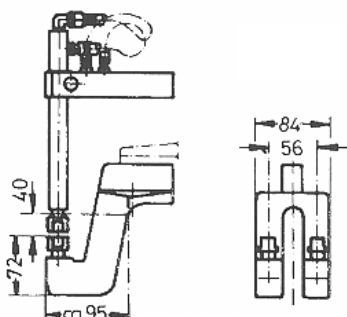
special square tube electrode arms

throat	type	seat	order-no.
120 mm			77962

SPECIAL SQUARE TUBE ELECTRODE ARMS

3329

- for welding of concrete-reinforcing steel
- insertion depth = dimension L 40 mm



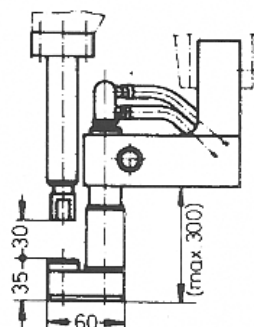
special square tube electrode arms

throat	type	seat	order-no.
			3326.52019.3

SPECIAL SQUARE TUBE ELECTRODE ARMS

3346 / 3349

- for welding of concrete-reinforcing steel
- insertion depth = dimension L 40 mm min.
for larger insertion depth possible up to
max. 300 mm - further 50 mm each



special square tube electrode arms

throat	type	seat	order-no.
			3346.51808.3

We reserve the right to change technical details.

SPOT WELDING ELECTRODES FOR AIR-COOLED WELDING GUNS



spot welding electrodes air-cooled	
type	order-no.
1071 N	3111.11808.0
1072 N	3111.11819.0
1073 N	3111.11814.0
1074 N	3111.11716.0
1075 N	3111.11817.0
1076 N	3111.11812.0
1077 N	3111.11818.0
1079 N	3111.11821.0
1080 N	3111.11822.0
1082 N	3111.11809.0
1083 N	3111.11816.0
1086 N	3111.11810.0
1087 N	3111.11811.0
1088 N	3111.11813.0
1089 N	3111.11825.0
1090 N	3111.11704.0
1091 N	3111.11826.0
1092 N	3111.11827.0
1093 N	3111.11699.0
1094 N	3111.11828.0
1099 N	3111.11831.0

We reserve the right to change technical details.



spot welding electrodes air-cooled

type	order-no.
1075 N	3111.11817.0
1076 N	3111.11812.0
1077 N	3111.11818.0
1079 N	3111.11821.0

We reserve the right to change technical details.



spot welding electrodes air-cooled

type	order-no.
1080 N	3111.11822.0
1082 N	3111.11809.0
1083 N	3111.11816.0
1086 N	3111.11810.0
1087 N	3111.11811.0
1088 N	3111.11813.0

We reserve the right to change technical details.

SPOT WELDING ELECTRODES



1089 N



1090 N



1091 N

spot welding electrodes air-cooled

Typ	Bestell-Nr.
1089 N	3111.11825.0
1090 N	3111.11704.0
1091 N	3111.11826.0

We reserve the right to change technical details.



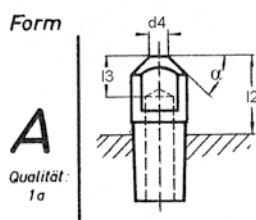
spot welding electrodes air-cooled

1092 N	3111.11827.0
1093 N	3111.11699.0
1094 N	3111.11828.0
1099 N	3111.11831.0

We reserve the right to change technical details.

SPOT WELDING ELECTRODES

SPOT WELDING ELECTRODES FOR WATER-COOLED WELDING GUNS

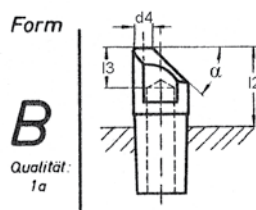


spot welding electrodes shape A

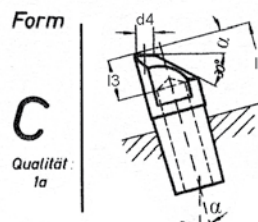
a	d4	L3	seat	L2	type	order no.
45°	5	14	1	16	1 A 20	WN.09351.1
45°	5	14	1	31	1 A 30	WN.09352.1
45°	5	14	1	61	1 A 60	WN.09353.1
30°	6,5	18	2	18	2 A 20	WN.09355.1
30°	6,5	18	2	28	2 A 30	WN.09356.1
30°	6,5	18	2	53	2 A 50	WN.09357.1
30°	6,5	18	2	78	2 A 80	WN.09358.1
40°	8	19	3	35	3 A 35	WN.09361.1
40°	8	19	3	70	3 A 70	WN.09362.1
45°	5	12	6	15	6 Av15	WN.09731.1
45°	5	12	6	25	6 Av25	WN.09732.1
45°	5	12	6	40	6 Av40	WN.09733.1
45°	5	14	7	20	7 A 20	WN.09371.1
45°	5	14	7	30	7 A 30	WN.09372.1
45°	5	14	7	60	7 A 60	WN.09373.1
45°	5	18	8	25	8 A 25	WN.09375.1
45°	5	18	8	35	8 A 35	WN.09376.1
45°	5	18	8	50	8 A 50	WN.09377.1

spot welding electrodes shape B

a	d4	L3	seat	L2	type	order-no.
45°	5	14	1	18	1 B 20	WN.09401.1
45°	5	14	1	31	1 B 30	WN.09402.1
45°	5	14	1	61	1 B 60	WN.09403.1
30°	6,5	18	2	28	2 B 30	WN.09406.1
30°	6,5	18	2	53	2 B 50	WN.09407.1
30°	6,5	18	2	78	2 B 80	WN.09408.1
40°	8	19	3	35	3 B 35	WN.09411.1
40°	8	19	3	70	3 B 70	WN.09412.1
45°	5	12	6	15	6 Bv15	WN.09736.1
45°	5	12	6	25	6 Bv25	WN.09737.1
45°	5	14	7	20	7 B 20	WN.09421.1
45°	5	14	7	30	7 B 30	WN.09422.1
45°	5	14	7	60	7 B 60	WN.09423.1
45°	5	18	8	25	8 B 25	WN.09424.1
45°	5	18	8	35	8 B 35	WN.09426.1
45°	5	18	8	50	8 B 50	WN.09427.1

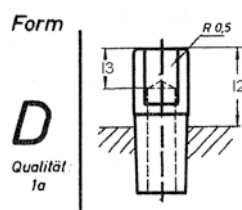


We reserve the right to change technical details.



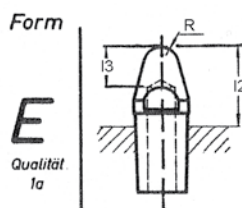
spot welding electrodes shape C

a	d4	L3	seat	L2	type	order-no.
15°	5	14	1	20	1 C 20	WN.09451.1
15°	5	15	2	25	2 C 25	WN.09454.1
15°	8	18	3	30	3 C 30	WN.09457.1
22°30'	5	13	6	15	6 Cv15	WN.09741.1
22°30'	5	16	7	20	7 C 20	WN.09463.1
22°30'	5	21	8	25	8 C 25	WN.09466.1
22°30'	5	21	8	35	8 C 35	WN.09467.1



spot welding electrodes shape D

L3	seat	L2	type	order-no.
14	1	16	1 D 20	WN.09551.1
	1	31	1 D 30	WN.09552.1
	1	61	1 D 60	WN.09553.1
18	2	28	2 D 30	WN.09556.1
	2	53	2 D 50	WN.09557.1
	2	78	2 D 80	WN.09558.1
19	3	35	3 D 35	WN.09561.1
14	7	20	7 D 20	WN.09571.1
18	25	25	8 D 25	WN.09575.1

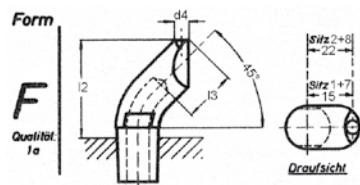


spot welding electrodes shape E

R	L3	seat	L2	type	order-no.
3,5	14	1	20	1 E 20	WN.09601.1
3,5	14	1	30	1 E 30	WN.09602.1
3,5	14	1	60	1 E 60	WN.09603.1
3,5	14	7	20	7 E 20	WN.09621.1
3,5	14	7	30	7 E 30	WN.09622.1
3,5	14	7	60	7 E 60	WN.09623.1

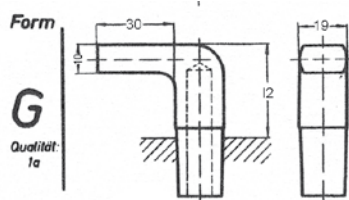
We reserve the right to change technical details.

SPOT WELDING ELECTRODES



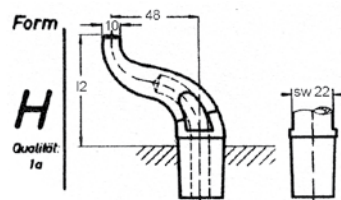
spot welding electrodes shape F

d4	L3	seat	L2	type	order-no.
5	14	1	35	1 F 35	WN.09514.1
5	18	2	50	2 F 50	WN.09511.1
5	14	7	35	7 F 35	WN.09515.1
5	18	8	50	8 F 50	WN.09512.1



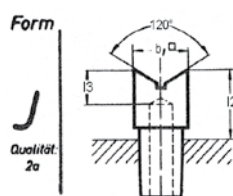
spot welding electrodes shape G

seat	L2	type	order-no.
2	30	2 G 30	WN.09165.1



spot welding electrodes shape H

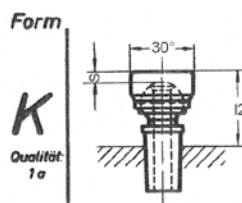
seat	L2	type	order-no.
1		1 H 80	X_1_H_80
2	93	2 H 80	WN.09527.1
3	93	3 H 80	WN.09528.1
8	93	8 H 80	WN.09529.1



spot welding electrodes shape J

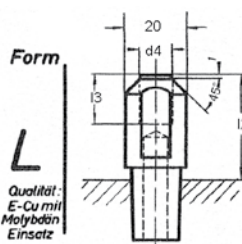
b1	L3	seat	L2	type	order-no.
20	14	1	20	1 J 20	WN.09651.1
25	15	2	30	2 J 30	WN.09652.1
30	18	3	35	3 J 35	WN.09653.1
15	12	6	15	6 J 15	WN.09656.1
20	14	7	20	7 J 20	WN.09657.1
25	18	8	25	8 J 25	WN.09658.1

We reserve the right to change technical details.



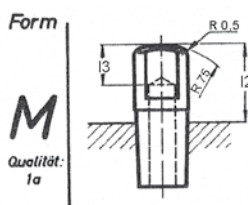
spot welding electrodes shape K

seat	L2	type	order-no.
1	35	1 K 35	WN.09301.1
2	35	2 K 35	WN.09302.1
6	32	6 K 32	WN.09310.1
7	32	7 K 32	WN.09311.1
8	32	8 K 32	WN.09312.1



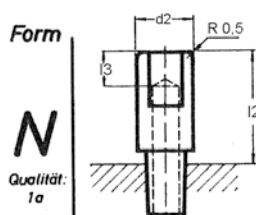
spot welding electrodes shape L

d4	L3	seat	L2	type	order-no.
8	12	1	25	1 L 25	WN.09676.1
10	15	2	35	2 L 35	WN.09677.1



spot welding electrodes shape M

I3	seat	L2	type	order-no.
14	1	20	1 M 20	WN.09701.1
14	1	30	1 M 30	WN.09702.1
14	1	60	1 M 60	WN.09703.1
15	2	30	2 M 30	WN.09706.1
15	2	50	2 M 50	WN.09707.1
15	2	80	2 M 80	WN.09708.1
18	3	35	3 M 35	WN.09711.1
18	3	25	8 M 25	WN.09725.1
18	8	50	8 M 50	WN.09727.1

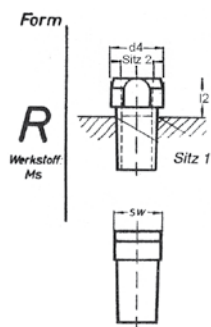


spot welding electrodes shape N

d2	L3	seat	L2	type	order-no.
25	14	1	20	1 N 20	WN.09761.1
25	15	2	30	2 N 30	WN.09766.1
25	18	8	25	8 N 25	WN.09786.1

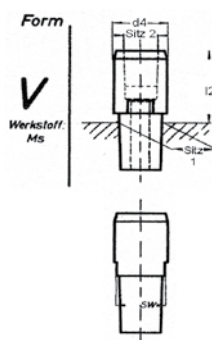
We reserve the right to change technical details.

REDUCING BUSHES



reducing bush shape R

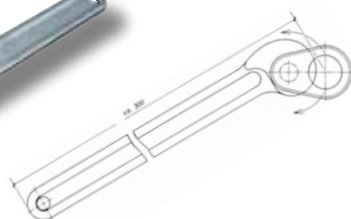
d4	SW	seat 1	seat 2	L2	type	order-no.
22	19	2	1	15	2 R 1	WN.09951.1
30	27	3	2	23	3 R 2	WN.09952.1
22	19	2	7	15	2 R 7	WN.09956.1
30	27	3	8	21	3 R 8	WN.09957.1
22	19	8	1	15	8 R 1	WN.09960.1
18	14	7	6	15	7 R 6	WN.09961.1
22	19	8	7	15	8 R 7	WN.09962.1



reducing bush shape V

d4	SW	seat 1	seat 2	L2	type	order-no.
30	27	2	2	42	2 V2/42	WN.09976.1
30	27	3	2	45	3 V2/45	WN.09977.1
25	22	8	8	35	8 V8/35	WN.09978.1

ELECTRODE KEY



electrode key DALEX special key for loosening electrode tips

Ø mm	order-no.
up to 20 mm	X_SCHLÜSSEL_53

We reserve the right to change technical details.

ELECTRODE CAPS



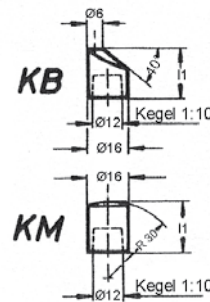
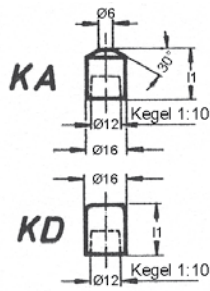
Form

KA

Qualität:
1a

Form

KD



KB

KM

electrode caps shape KA / KD / KB / KM

L1	type	order-no.
20	K 12 A 20	WN.09810.1
20	K 12 B 20	WN.09811.1
20	K 12 D 20	WN.09812.1
20	K 12 M 20	WN.09813.1
21	K 12 L 20*	WN.09800.1

*with tungsten insert

tip dresser are available on request

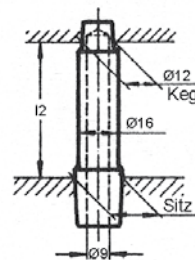
ELECTRODE SHAFTS



Form

S

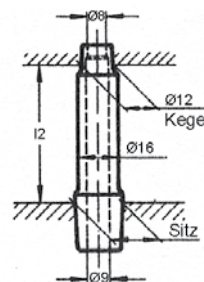
Qualität:
1a



Form

SL

Qualität:
1a



electrode shafts shape S

seat	L2	type	order-no.
2	30	2 S 30	WN.09820.1
2	50	2 S 50	WN.09821.1
2	80	2 S 80	WN.09822.1

electrode shafts shape SL

seat	L2	type	order-no.
2	30	2 SL 30	WN.09830.1
2	80	2 SL 80	WN.09831.1

We reserve the right to change technical details.

CONTROL UNITS

CONTROL UNIT RS 15 Z 16

- A 3112 / A 3119
- A 3139 S2 / A 3139 S3

CONTROL UNIT 15 Z 32

- 3228
- 1-timer-thyristor-control unit
- current time: 1 - 99 cycles
- current control via secondary transformer
- with main power switch acc. VDE 0133



RS 15 Z 16 / RS 15 Z 32

for welding gun	type	order-no.
A 3112 / A3119	RS 15 Z 16	RS_15_Z_16
A 3139 S2 / A3139 S3	RS 15 Z 16	RS_15_Z_16
3228	RS 15 Z 32	RS_15_Z_32

CONTROL UNIT VARIOSPOT 3.3

- A 3112 / A 3119
- A 3139 S2 / A 3139 S3
- control unit with sheet steel processing unit
- technical equi RS 15
- addition equipped with selector switch for operating DALEX spot welding guns or poke gun electrode with secondary welding cable, length 1600 mm
- with accessory case and exchangeable electrodes for shrinking, welding-on pins, bolts, disks, nails and dining hammer
- main filter for interference suppression acc. with EMV-Law
- Euro standard „EN50081-1“
- power cable and 16 A-CEE-plug



Variospot 3.3

for welding gun	type	order-no.
A 3112 / A 3119	Variospot 3.3	VARIOSPOT_3_3
A 3139 S2/A 3139 S3	Variospot 3.3	VARIOSPOT_3_3

ADD-ON CONTROL CABINET B 200

PLUG-IN CONTROL UNIT MPS 10

with plug connection for connection of DALEX spot welding guns

- 3228
- 3328-6 / 3329 / 3346
- 3349
- 3528

equipped with:

- main switch acc. to VDE 0113 (except 3349/3528)
- 3 m mains connection cable, without plug
- 8 welding programs for operation with thyristor power stage
- digital current and time adjustment
- up-slope and impulse function
- voltage drop compensation
- automatic acknowledgement of frequency 50/60 Hz
- parameter input via keyboard
- status indication via LEDs
- international operating symbols
- stepping and interlocking contact

MPS 10		
for welding gun	type	order-no.
3328-6	MPS 10	S_78.96832.1_5
3228 / 3329 / 3346	MPS 10	S_78.96832.1
3349	MPS 10	S_78.96832.1_7
3528	MPS 10	S_78.96833.1_1



WATER RECOOLING UNITS

COOL 1

fully thermal cooling water re cooler unit with cold water circulation, cooling water circulation and electric control

- refrigerating power (kW): 1,35
- mains voltage (50 Hz) V: 230
- compressor power (kW): 0,46
- water tank (l): 6
- mains power (kW): 0,7
- weight (kg): 42

COOL 1

for welding guns	type	order-no.
for all types	COOL 1	X_COOL1



COOL 2

fully thermal cooling water re cooler unit with cold water circulation, cooling water circulation and electric control

- refrigerating power (kW): 1,9
- mains voltage (50 Hz) V: 230
- compressor power (kW): 1
- water tank (l): 21
- mains power (kW): 1,34
- weight (kg): 85

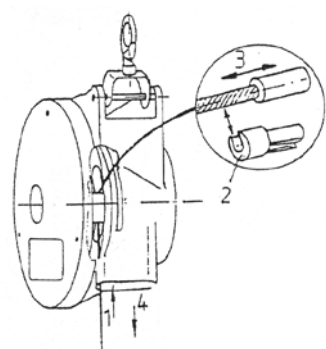
COOL 1

for welding guns	types	order-no.
for all types	COOL 2	X_COOL2



SPRING BALANCER

- comply with all specifications of German Institute for standardization DIN 15 112
- perfect ergonomics at the workplace
- for smooth and safety working processes
- excellent retracting and balancing performance
- ideal assistance for installation and production



Spring balancer D4/..wire length 2000 mm

type	capacity	dead load	order-no.
D 4/5	3-5 kg	2,9 kg	D_4._5
D 4/7	4,5-7 kg	3,1 kg	D_4._7
D 4/10	6-10 kg	3,2 kg	D_4._10
D 4/14	9-14 kg	3,4 kg	D_4._14
D 4/17	13-17 kg	3,6 kg	D_4._17
D 4/21	16-21 kg	3,8 kg	D_4._21

Spring balancer D4/..wire length 2000 mm

type	capacity	dead load	order-no.
D 5/30-1	21-30 kg	16,3 kg	D_5._30_1
D 5/45-1	31-45 kg	18 kg	D_5._45_1
D 5/60-1	46-60 kg	18,4 kg	D_5._60_1
D 5/75-1	61-75 kg	19,8 kg	D_5._75_1
D 5/90-1	76-90 kg	20,8 kg	D_5._90_1
D 5/100-1	91-100 kg	21 kg	D_5.100_1

spring balancer with a capacity above 100 kg
on request

DALEX

SCHWEISSTECHNIK

Stand 04/2017



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