Spot Welding Equipment • Automotive • Column Cable Suspended • Balancers





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Hand Spot Welders

7900 • 7900/110 • 7902/P • 7913

Hand Operated Spot Gun - 2 kVA

Key Features

- · Lightweight professional spot gun for car body repair
- Synchronous built-in electronic timer with SCR from 2 to 65 cycles
- Compensation circuit starts the timer only when there is a proper passage of current which enables to perform on oxidised sheets, on surfaces with paint residues or on black sheets
- All transformer are coated with F class insulation material that does not dry out and become brittle
- Tests are made using 4000V
- Force adjustment with scale in daN
- Additional arm couplings to provide larger opening between arms
- Supplied complete with 125mm arms
- Large choice of arms and electrodes

7900/110 Version

* 110V Version of the Hand Operated Spot Gun - 2 kVA



Order Code: 7900

Hand Operated Spot Gun - 2.5 kVA

Key Features

- Versatile portable spot welder for auto body repair shops and maintenance shops
- Synchronous built-in electronic timer with SCR from 2 to 65 cycles
- Compensation circuit starts the timer only when there is a proper passage of current which enables to perform on oxidised sheets, on surfaces with paint residues or on black sheets
- Current control with phase shift adjustment to carry out difficult welds, on very thin thickness, on rods with reduced diameter, on stainless steel sheet and similar
- All transformers are coated with F class insulation material
- Test are made using 4000V
- Force adjustment with scale in daN
- Additional arm couplings to provide larger opening between arms
- Supplied complete with 125mm arms
- Large choice of arms and electrodes
- Pulsation weld time control
- Cos fi control

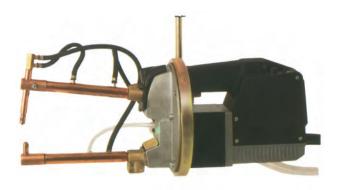


Order Code: 7902/P

Pneumatic Gyroscopic Water Cooled Spot Gun - 6 kVA

Key Features

- Fully water cooled portable spot gun
- For high operating rate works in car body repair and light production works in industry
- Synchronous built-in electronic timer with SCR from 2 to 65 cycles
- Compensation circuit starts the timer only when there is a proper passage of current which enables to perform on oxidised sheets, on surfaces with paint residues or on black sheets
- Current control with phase shift adjustment to carry out difficult welds, on very thin thickness, on rods with reduced diameter, on stainless steel sheet and similar
- Balanced construction for easy operation
- Thread base for fixing on a bench
- A built-in differential pressure switch operates the timer when the electrode force is correct
- Additional arm couplings to provide larger opening between arms
- All transformer are coated with F class insulation material. Insulation test performed at 4000V
- To be used with arms items:
 7512 7513 7514 7515 (on request)



Order Code:		7900	7902	7913
Synchronous timer with SCR		•	•	•
Time adjustment	cycles	2-65	2-65	2-65
Current adjustment 40-100%		-	•	
Cooling		Air	Air	Water
Supply voltage 50Hz *	V	230	230	400
Nominal power at 50%	kVA	2	2.5	6
Maximum welding power	kVA	13	16	18
Short circuit current	kA	7.2	8.2	8.2
No load secondary voltage	V	2.3	2.5	2.7
Insulation class		F	F	F
Cables section for L<15 m	mm²	2.5	2.5	2.5
Delayed fuses	А	16	16	16
Standard arms throat depth L	mm	125	125	-
Max. electrode force w/short arms	daN	120	120	120
Arms gap	mm	96	94	94
Max. electrodes stroke	mm	55	55	40
Water cooling	l/min	-	-	2.5
Water max. pressure	bar	-	-	2.5
Aerial noise produced	dB(A)	< 70	< 70	<70
Level of vibrations	m/s²	< 2.5	< 2.5	< 2.5
Measure conditions				
Welding time	cycles	14	14	6
Welding current	kA	5	5	6.1
Working rating in welds/min		2	2	15
Mains cable length	m	3.8	3.8	3.8
Net weight with arms 125mm	Kg	10.5	11	-
Net weight with arms 150mm	Kg	-	-	16
Net weight with arms 500mm	Kg	13	13.5	19

^{*} Different voltages & frequencies on request



Multi Function Spotters

7600 • 3460N • 3464 • 3461

Star Autospotter

Key Features

- Mainly used in car body repair
- Resistance welding of nails and washers for sheets straightening
- Cuts the cost on body repairs, you do not need to remove interiors trims and fitments, double skin areas are easily repaired
- Resistance welding of screws and rivets
- Sheets localised heating
- Available in 2 versions: 7600 without timer 7660 with timer
- Both come complete with: Handle (item 20002)
 Electrodes 7602-7603-7604



Order Code: 7600

Multi Function Portable Spotter

Key Features

- Extremely versatile, it is the ideal equipment for repairs in car body shops
- Single-spot weld rivets, screws, self-threading rivets, washers and pins
- It is possible to perform shrinking
- Quick straightening of panels can be carried out due to the 3 point star on the percussion extractor
- Improved versatility to allow the use of different accessories for sheet straightening
- Mains cable 4m

Optional

Trolley 3461





Order Code: 3460N

Universal Welding Station - 8 kVA

Key Features

- Hand-operated gun, double program
- Simultaneous connection of two tools with automatic recall of the relevant welding program, enabling to save time, avoid errors so to have a simple and safe working process
- Resistance spot welding of sheets
- Sheet straightening with spotter (nails and washers)
- Localised sheets heating (carbon electrode)
- Screws and rivets welding
- Inox sheet-metal spotting
- Synchronous SCR welding control unit, welding time adjustment in cycles and pulses, welding current adjustment and compensation function
- The welding stations with epoxy-coated transformers are supplied equipped with:
 - 3489 Adjustable height trolley with tray and arms holder
 - 3473 Extra-flexible cables L= 1800mm, 150mm²
 - 5001 Pair of straight arms L= 107mm



Order Code:		7600	7660
Timer		-	•
Mains voltage/frequency		230V 50/60Hz	230V 50/60Hz
Nominal power at 50%	kVA	0.8	0.8
Maximum welding power	kVA	5.2	5.2
Short circuit current	kA	2.5	2.5
No load secondary voltage	V	2.6	2.6
Fuses	Α	16	16
Force to apply to the tool	daN	15 - 25	15 - 25
Net weight without cord	Kg	5	5
Aerial noise produced	dB(A)	< 70	< 70
Vibrations level	m/s²	< 2.5	< 2.5
Order Code:		3460N	3484
Number of programs		1	2
Mains voltage/frequency*		230V 50Hz	400V 50Hz
Phases nr.		1	3
Nominal power at 50%	kVA	5	8
Maximum welding power	kVA	20	35
Short circuit secondary current	kA	4.5	6.4
Secondary current at 100%	kA	0.63	0.8
No load secondary voltage	V	5.6	7
Delayed fuses	А	16	25
Mains cables section L=15m	mm²	2.5 x 3	6 x 3

Kg

Kg

cm

F IP21

28

32

30 x 34 x 68

IP21

70

85

48 x 69 x 82

Thermal class

Gross weight

Protection degree
Net weight

Package dimensions

Order Code: 3484

^{*} Different voltages & frequencies on request

Cable Spot Welding Stations

ZX3450/415 • ZX3650EVOC • ZX3650EVOCX • ZX3655E2C

Mantis Pneumatic Water Cooled

Key Features

- Resistance spot welding of sheets
- Sheet straightening with spotter (nails or washers)
- Localised sheets heating (carbon electrode)
- Screws and rivets welding
- Inox sheet-metal spotting
- Synchronous digital welding control unit TE95 with double program, welding time adjustment in cycles and pulses, welding current adjustment and compensation function
- Allow simultaneous connection of two tools with automatic recall of the relevant memorized welding program, enabling to save time, avoid errors so to have a simple and safe working process
- The welding station with epoxy-coated transformers are supplied equipped with:
 - 3873 Extra-flexible welding cables L= 2000mm, 150mm² (water cooled cables on request)
 - 3489 Adjustable height trolley with tray and arms holder
 - Pair of standard arms L=107mm

COBRA EVO

Key Features

- DC current welding station featuring inverter technology
- USB port for upgrading and storage of welding data which can then be used on a PC
- Automatic proportional valve for managing the force at the electrodes
- New ergonomically designed trolley equipped with protected wheels providing greater stability
- Water cooled

ZX3450/415

		ZX3650EVOC	ZX3655E2C
Input voltage 3 phase	\vee	400	400
Nominal power at 50% duty cycle	kVA	25	25
Fuse (delayed action)	Α	35	50
Compressed air	Bar	8	8
Maximum secondary current	kΑ	9	13
No load secondary voltage	V	14	17
Weld time	S	0.01 - 2	0.01 - 2
Protection insulation class		IP21	IP21
Weight	Kg	150	1 50



Mains voltage/frequency*		400V 50Hz
Phases nr.		3
Nominal power at 50%	kVA	10
Maximum welding power	kVA	50
Short circuit secondary current	kA	8
Secondary current at 100%	kA	0.8
No load secondary voltage	\vee	8
Delayed fuses	Α	25
Mains cables section L=15m	mm²	6 x 6
Thermal class		F
Protection degree		IP21
Net weight	Kg	105
Gross weight	Kg	120

* Different voltages & frequencies on request

Order Code: ZX3450/415



Order Code: ZX3655E2C

59 x 68 x 92

cm

Cable Spot Welding Stations ZX3655E2CX • ZX36EZ • ZX36EZ • ZX3664P • ZX3664P7

RED BULL 36 EZ

Key Features

- · Smart mode for easy setting
- Water cooling system
- Supporting arm includes a balancer
- Stable, compact and ergonomic system
- · Touch screen welding control unit
- Full control for expert parameter setting
- USB interface available to easily export all data relevant to the performed welded spots
- Also available with high pressure 700 daN gun



Order Code: ZX36EZ

Order Code: ZX36EZ-7

RHINO

Key Features

- · Easy basic operator adjustment
- Expert for full operator parameter input
- Smart computer adjusted parameters with minimal operator input
- Smart plus full computer adjusted parameters



		ZX3664P	ZX3664P7
Input voltage 3 phase	\vee	400	400
Frequency	Hz	50/60	50/60
Nominal power at 50%	kVA	19	19
Maximum welding power	kVA	60	60
Maximum secondary current	kA	14	14
Thermal current 100%	kA	1.8	1.8
No load secondary voltage	V	8.7	8.7
Max. electrode force	daN	450	700
Recognition sensor		S	S
Protection insulation class		IP21	IP21
Weight	Kg	130	130

Order Code: ZX3664P

Order Code: ZX3664P7

Pedestal Spot Welders • 16-25 kVA

4640 • 4641 • 4642 • 4643 • 4644

The new stationary ergonomic frame designed by TECNA helps to facilitate the operator's work

The control unit has been positioned on the front of the machine to allow the operator to view the welding data even during the working cycle



Key Features

- · Arms adjustable in length allowing a better working flexibility
- Chrome-copper electrode holders for long life and heavy duty service, designed for straight and angled fitting
- Adjustable electrode stroke
- Epoxy resin coated transformer
- Water cooled transformer, arms and electrodes
- Microprocessor control unit TECNA TE101
- Adjustable electrode force; a microswitch starts the welding cycle when the desired pre-set value is reached. The foot pedal is adjustable in length



Order Code		4640	4641	4642	4643	4644
Nominal power @ 50%	kVA	16	20	20	25	25
Maximum welding power	kVA	35	48	39	68	55
No load secondary voltage	V	3.4	4	4	4.6	4.6
Maximum short circuit current	kA	12.5	14.5	12	18	14.5
Maximum welding current on light alloys	kA	-	-	-	16.3	-
Maximum welding current on steel	kA	10	11.6	9.6	14.4	11.6
Thermal current 100%	А	3300	3500	3500	3800	3800
Supply voltage 50Hz *	V	400	400	400	400	400
Cables section L=10m	mm²	6	10	10	16	16
Cables section L=30m	mm²	10	10	10	16	16
Delayed fuses	А	32	40	40	50	50
Min. throat depth	mm	230	230	380	230	380
Max. electrode force (@ 6 bar)	daN	240	240	150	240	150
Electrode stroke	mm	8 - 44	8 - 44	10 - 60	8 - 44	10 - 60
Max. electrodes throat depth	mm	550	550	700	550	700
Max. electrode force (@ 6 bar)	daN	95	95	80	95	80
Electrode stroke	mm	15 - 85	15 - 85	15 - 105	15 - 85	15 - 105
Short circuit current with L max.	kA	8.4	10	8.8	13	10.5
Arms diameter	mm	36	40	40	40	40
Electrode holders diameter	mm	19	22	22	22	22
Standard electrodes cone diameter	mm	12.7	14.8	14.8	14.8	14.8
Water cooling	l/min	2.5	3	3	3.7	3.7
Aerial noise produced	dB(A)	<70	<70	<70	<70	<70
Measure conditions						
Working stroke	mm	20	20	20	20	20
Welding time	cycles	21	17	26	14	20
Welding current	kA	9.4	11	9	13.5	11
Working rating in welds/min		10	10	10	10	10
Net weight (approximately)	Kg	135	143	146	145	148
	-					

^{*} Different voltages & frequencies on request

Pneumatic Spot Welders • 16-25 kVA

4645 • 4646 • 4647 • 4648 • 4649

The new stationary ergonomic frame designed by TECNA helps to facilitate the operator's work

The pneumatic commands and the compressed air pressure gauge have been placed at the top for easier reading and adjustment



Key Features

- Arms adjustable in length allowing a better working flexibility
- Chrome-copper electrode holders for long life and heavy duty service, designed for straight and angled fitting
- Adjustable electrode stroke
- Epoxy resin coated transformer
- Water cooled transformer, arms and electrodes
- Microprocessor control unit TECNA TE101
- The air operated lubrication free cylinder eliminates oil mist
- Electrode force adjustment with air filter reducer with gauge
- Semi-automatic drainage system
- Electrode speed control valves, shock absorber for cylinder's end of stroke and air discharge silencers
- Two-stage electric foot pedal, that besides its normal use in automatic and single spot mode, allows the operator to bring the pieces together and to weld them only when correctly positioned
- Pre-arrangement for the connection of a second electric two-stage foot pedal (item 70284)
- The addition of the second foot pedal allows the operator to recall two different adjustments of time current. This function is helpful when different kinds of welding are to be performed on the same place



Order Code		4645	4646	4647	4648	4649
Nominal power @ 50%	kVA	16	20	20	25	25
Maximum welding power	kVA	35	48	39	68	55
No load secondary voltage	V	3.4	4	4	4.6	4.6
Maximum short circuit current	kA	12.5	14.5	12	18	14.5
Maximum welding current on aluminium alloys	kA	-	-	-	16.3	-
Maximum welding current on steel	kA	10	11.6	9.6	14.4	11.6
Thermal current 100%	Α	3300	3500	3500	3800	3800
Supply voltage 50Hz *	V	400	400	400	400	400
Cables section L=10m	mm²	6	10	10	16	16
Cables section L=30m	mm²	10	10	10	16	16
Delayed fuses	Α	32	40	40	50	50
Min. throat depth	mm	230	230	380	230	380
Max. electrode force (@ 6 bar)	daN	240	240	165	240	165
Electrode stroke	mm	8 - 44	8 - 44	10 - 60	8 - 44	10 - 60
Max. electrodes throat depth	mm	550	550	700	550	700
Max. electrode force (@ 6 bar)	daN	115	115	90	115	90
Electrode stroke	mm	15 - 85	15 - 85	15 - 105	15 - 85	15 - 105
Short circuit current with L max.	kA	8.4	10	8.8	13	10.5
Arms diameter	mm	36	40	40	40	40
Electrode holders diameter	mm	19	22	22	22	22
Standard electrodes cone diameter	mm	12.7	14.8	14.8	14.8	14.8
Compressed air supply	bar	6.5	6.5	6.5	6.5	6.5
Air for 1000 spots (6 bar)	Nm³	4.3	4.3	4.3	4.3	4.3
Water cooling	l/min	2.5	3	3	3.7	3.7
Aerial noise produced	dB(A)	<70	<70	<70	<70	<70
Measure conditions						
Working stroke	mm	20	20	20	20	20
Welding time	cycles	21	17	26	14	20
Welding current	kA	9.4	11	9	13.5	11
Working rating in welds/min		10	10	10	10	10
Net weight (approximately)	Kg	133	141	144	143	146

^{*} Different voltages & frequencies on request

Pneumatic Spot Welders • 35-50 kVA

4660 • 4661 • 4662 • 4663

The pneumatic commands and the compressed air pressure gauge have been placed at the top for easier reading and adjustment

The control unit has been positioned on the front of the machine to allow the operator to view the welding data even during the working cycle



Key Features

- Chrome-copper electrode holders for long life and heavy duty service, designed for straight and angled fitting
- Water cooled epoxy resin coated transformer
- Water cooled arms, electrodes and electrode holders
- Microprocessor control unit TECNA TE101
- USB port for data storage (only with TE550)
- The air operated lubrication free cylinder eliminates oil mist
- Protected filter assembly with gauge
- Two stage electric foot control for clamping the welding pieces in the correct position prior to welding
- Pre-connected for additional electric foot pedal for the direct recalling of welding program No.2. This function is helpful when different kinds of welding are to be performed on the same piece
- Arms: gap 280mm, adjustable depth 320mm (Option 4638)
- · Adjustable electrodes stroke for max. working rate



Order Code		4660	4661	4662	4663
Nominal power @ 50%	kVA	35	35	50	50
Maximum welding power	kVA	75	62	104	82
Maximum short circuit current	kA	17.5	14	21	16.5
Thermal current 100%	А	4500	4500	5700	5700
No load secondary voltage	V	5.4 (4)	5.4 (4)	6.1	6.1
Supply voltage 50Hz *	V	400	400	400	400
Cables section L=30m	mm²	16	16	35	35
Delayed fuses	А	63	63	100	100
Insulation class		F	F	F	F
Min. throat depth	mm	280	480	280	480
Max. electrode force (@ 6 bar)	daN	425	260	425	260
Electrode stroke	mm	5 - 50	5 - 75	5 - 50	5 - 75
Max. throat depth	mm	600	800	600	800
Max. electrode force (@ 6 bar)	daN	210	160	210	160
Electrode stroke	mm	5 - 95	5 - 120	5 - 95	5 - 120
Max. short circuit current with max. throat depth	kA	12.9	10.9	14.3	12.2
Gap min. (option 4638)	mm	195	195	195	195
Gap max. (option 4638)	mm	500	500	500	500
Max. short circuit current max. gap (option 4638)	kA	11	11	12.6	12.6
Arms diameter	mm	50	50	50	50
Electrode holders diameter	mm	25	25	25	25
Standard electrodes cone diameter	mm	14.8	14.8	14.8	14.8
Compressed air supply	bar	6.5	6.5	6.5	6.5
Air for 1000 spots (6 bar)	Nm³	6.2 - 4.8	6.2 - 4.5	6.2 - 4.8	6.2 - 4.5
Water cooling	l/min	4	4	4	4
Aerial noise produced	dB(A)	<70	<70	<70	<70
Measure conditions					
Working stroke	mm	20	20	20	20
Welding time	cycles	14	21	15	24
Welding current	kA	13.1	10.5	16	12.4
Working rating in welds/min		15	15	15	15
Net weight (approximately)	Kg	218	223	228	233

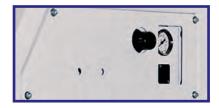
^{*} Different voltages & frequencies on request

Linear Action Pneumatic Spot Welders • 35-50 kVA

4665 • 4666 • 4667 • 4668

The new stationary ergonomic frame designed by TECNA helps to facilitate the operator's work

The pneumatic commands and the compressed air pressure gauge have been placed at the top for easier reading and adjustment



Key Features

- Chrome-copper electrode holders for long life and heavy duty service, designed for straight and angled fitting
- Water cooled epoxy resin coated transformer
- Water cooled arms, electrodes and electrode holders
- Microprocessor control unit TECNA TE101
- USB port for data storage (only with TE550)
- The air operated lubrication free cylinder eliminates oil mist
- Protected filter assembly with gauge
- Two stage electric foot control for clamping the welding pieces in the correct position prior to welding
- Pre-connected for additional electric foot pedal for the direct recalling of welding program No.2. This function is helpful when different kinds of welding are to be performed on the same piece
- · Arms: gap 280mm, adjustable depth 320mm (Option 4638)
- · Adjustable electrodes stroke for max. working rate



Order Code		4665	4666	4667	4668
Nominal power @ 50%	kVA	35	50	35	50
Maximum welding power	kVA	67	84	64	84
Short circuit current	kA	15.5	17	14.5	17
Thermal current 100%	А	4500	5700	4500	5700
No load secondary voltage	V	5.4 (4)	6.1	5.4 (4)	6.1
Supply voltage 50Hz *	V	400	400	400	400
Cables section L=30m	mm²	16	35	16	35
Delayed fuses	А	63	100	63	100
Insulation class		F	F	F	F
Min. throat depth	mm	400	400	500	500
Max. electrode force (@ 6 bar)	daN	470	470	300	300
Electrode stroke	mm	5 - 80	5 - 80	5 - 80	5 - 80
Gap min. (option 4638)	mm	-	-	170	170
Gap max. (option 4638)	daN	-	-	500	500
Max. short circuit current with max. gap (option 4638)	mm	-	-	10	12.1
Arms diameter	mm	50	50	50	50
Electrode holders diameter	mm	25	25	25	25
Standard electrodes cone diameter	mm	14.8	14.8	14.8	14.8
Compressed air supply	bar	6.5	6.5	6.5	6.5
Air for 1000 spots (6 bar)	Nm³	5.4 - 1.7	5.4 - 1.7	5.4 - 1.7	5.4 - 1.7
Water cooling	l/min	4	4	4	4
Aerial noise produced	dB(A)	<70	<70	<70	<70
Measure conditions					
Working stroke	mm	20	20	20	20
Welding time	cycles	17	23	20	24
Welding current	kA	11.6	12.7	10.9	12.4
Working rating in welds/min		15	15	15	15
Net weight (approximately)	Kg	220	225	220	225
* D'ff	-				

^{*} Different voltages & frequencies on request

Spot & Projection Welders • 35-80 kVA

8001N - 8009N

Industrial Line





Key Features

- Double stroke cylinder with key control
- Built-in compressed air filter unit
- Compressed air disconnecting device
- Water cooled transformer, plates, electrode holders and electrodes
- Transformer with epoxy resin coated windings
- TE550 constant current control unit
- Cylinder with chrome plated stem for heavy duty works and long life; adjustable anti-rotation device
- Lubrication free pneumatic components to eliminate oil mist and to protect the environment
- Electrodes speed control valves, shock absorber for end stroke and air discharge silencers assuring the minimum noise
- Two stage electric foot control for clamping the welding pieces in the correct position prior to welding
- Pre-setting for additional double stage electric foot connection for the direct recalling of welding program No. 2
- Synchronous SCR contactor insulated from cooling water circuit with protection thermostat
- Standard on all models: Two hand safety control with timer for optimum safety protection. Removable key selector. The two hand control push buttons are standard on projection models only (they are available on request on spot welder models)
- Emergency push button to stop the machine immediately



Order Code		8001N	8002N	8003N	8004N	8005N	8005N +8031	8006N	8007N	8007N +8032	8009N
Spot / projection welder		• / -	• / -	• / -	• / -	• / •	• / •	• / -	• / •	• / •	• / •
Nominal power @ 50%	kVA	35	35	60	60	60	60	80	80	80	35
Maximum welding power	kVA	80	60	125	92	200	150	115	300	230	88
Short circuit current	kA	18	13.5	22	16	35	26	17	45	34	20
Maximum welding current on aluminium	kA	16.3	12.2	20	14.5	31.8	23.6	15.4	41	31	18
Maximum welding current on steel	kA	14.4	10.8	17.6	12.8	28	20.8	13.6	36	27	16
Thermal current 100%	А	4500	4500	5900	5900	5900	5900	6800	6800	6800	4500
No load secondary voltage	V	-	-	7.1	7.1	7.1	7.1	8.3	8.3	8.3	-
		5.4	5.4	6.3	6.3	6.3	6.3	7.5	7.5	7.5	5.4
		4	4	5.6	5.6	5.6	5.6	6.7	6.7	6.7	4
		-	-	5.0	5.0	5.0	5.0	6.1	6.1	6.1	-
Supply voltage 50Hz *	V	400	400	400	400	400	400	400	400	400	400
Cables section L=30m	mm²	25	25	35	35	50	50	70	70	70	25
Delayed fuses	А	63	63	125	125	125	125	150	150	150	63
Minimum gap	mm	170	170	190	190	140	140	190	165	165	170
Maximum gap	mm	420	420	440	440	400	400	440	400	400	420
Depth L	mm	420	800	420	800	400	500	800	400	550	500
Depth D	mm	-	-	-	-	280	380	-	280	420	380
Max. electrode force (@ 6 bar) standard	daN	470	300	470	300	470	470	470	736	736	470
Maximum stroke	mm	80	80	80	80	80	80	80	100	100	80
Double stroke - standard	mm	60	60	60	60	60	60	60	60	60	60
Air consumption for 1000 spots (6 bar)	bar	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Standard version - stroke 20mm	Nm³	2.6	1.7	2.6	1.7	2.6	2.6	2.6	4.6	4.6	2.6
Standard version - max. stroke	Nm³	8.7	5.4	8.7	5.4	8.7	8.7	8.7	15.4	15.4	8.7
Air supply hose	mm	12	12	12	12	12	12	12	12	12	12
Water cooling	l/min	4.6	4.6	4.6	4.6	4.6	4.6	5	5	5	4.6
Aerial noise produced	dB(A)	<70	68	71	71	<70	<70	76	74	70	<70
Measure conditions					H=1	1.6 m L=0).5 m				
Working stroke	mm	20	20	20	20	50	50	20	50	50	50
Welding time	cycles	13	21	15	27	15	26	32	14	20	32
Welding current	kA	13.5	10.5	16.5	12	26	19.5	13	32	25.5	15
Working rating in welds/min		15	15	15	15	6	6	15	6	6	6
Net weight (approximately)	Kg	290	330	325	370	325	340	435	430	440	315
* B://											

^{*} Different voltages & frequencies on request

Spot & Projection Welders • 3 Phase 100 kVA

Industrial Line



Key Features

- Direct current 3 phase welder. In comparison with a traditional welder, it offers the following advantages:
 - High mains power factor
 - Reduced load on plant primary electrical service
 - Balanced load distribution on the three phases
 - Reduced effect of magnetic materials between arms on the welding current
 - Reduced installation costs
- Six phase silicon rectifier with device for checking the correct diodes clamping force
- Protection of the diodes against overload, over voltages and over temperatures
- Complex pneumatic cycle with low force squeeze
- Cylinder with chrome plated stem for heavy duty works and long life; adjustable anti-rotation device
- Adjustable double stroke with key control
- Lubrication free pneumatic components to eliminate oil mist and to protect the environment
- Head descent without pressure for set up and service
- Built-in compressed air filter unit and tank
- Compressed air disconnecting device
- Electrodes speed control valves, shock absorber for end of stroke and air discharge silencers assuring the minimum noise
- Two stage electric foot control for clamping the welding pieces in the correct position prior to welding
- Pre-setting for additional double stage electric foot connection for the direct recalling of welding program No. 2 (not on units equipped with option 6132)
- Water cooled transformers, plates, electrode holders and elctrodes; transformers with epoxy resin coated windings
- Flow switch makes the welder stop if the cooling water does not circulate
- TE553 microprocessor control unit featuring:
 - Phase shift welding current adjustment and synchronous SCR contractors insulated from cooling water circuit with protection thermostat
- Standard on all models: Two hand safety control with timer for optimum safety protection. Removable key selector. The two hand control push-buttons are standard on projection models only (they are available on request on spot welder models
- Emergency push button to stop the machine immediately
- Automatic circuit breaker for protection valve to stop the flow of the water cooling when the machine is off

Order Code		6101N	6102N	6103N
Spot / projection welder		•/•	•/•	• / -
Nominal power @ 50%	kVA	100	100	100
Maximum welding power	kVA	415	415	380
Short circuit current	kA	60	60	55
Max. welding current on aluminium	kA	55	55	50
Max. welding current on steel	kA	48	48	44
Thermal current 100%	Α	11000	11000	11000
No load secondary voltage	V	6.3	6.3	6.3
		5.5	5.5	5.5
Supply voltage 50Hz *	V	400	400	400
Cables section L=30m	mm²	50	50	50
Delayed fuses	Α	100	100	100
Minimum gap	mm	175	175	175
Maximum gap	mm	475	475	475
Depth L	mm	385	535	800
Depth D	mm	260	410	-
Max. electrode force (@ 6 bar) std.	daN	736	736	736
Max. electrode force (@ 6 bar) (option 6135)	daN	1242	1242	1242
Maximum stroke	mm	100	100	100
Double stroke - standard	mm	0 - 80	0 - 80	0 - 80
Air consumption for 1000 spots (6 bar)	bar	6.5	6.5	6.5
Standard version - stroke 20mm	Nm³	2.9	2.9	2.9
Standard version - max. stroke	Nm³	9.2	9.2	9.2
With option 6135 - stroke 20mm	Nm³	6	6	-
With option 6135 - max. stroke	Nm³	15.5	15.5	-
Air supply hose	mm	16	16	16
Water cooling	l/min	12	12	12
Aerial noise produced	dB(A)	73	73	76
Measure conditions				
Working stroke	mm	50	50	20
Welding time	cycles	14	14	8
Welding current	kA	45	45	41
Working rating in welds/min		6	6	15
Net weight (approximately)	Kg	650	660	710
*Different voltages and frequencies on request				

*Different voltages and frequencies on request Specifications subject to change without notice

Bench Spot Welders • 16-25 kVA



Key Features

- Built-in compressed air filter unit and tank
- Lubrication free pneumatic components to eliminate oil mist and to protect the environment
- Chrome plated cylinder and stem for heavy duty works and long life; adjustable anti-rotation device
- Water cooled transformers, plates, electrode holders and elctrodes; transformers with epoxy resin coated windings
- Items 2101 and 2103: TE550 constant current microprocessor control unit features:
 - Phase shift welding current adjustment
 - Synchronous SCR contactor insulated from cooling water circuit with protection thermostat
- Items 2102: TE101 microprocessor control unit features:
 - Phase shift welding current adjustment
 - Synchronous SCR contactor insulated from cooling water circuit with protection thermostat
- Two stage electric foot control for clamping the welding pieces in the correct position prior to welding
- Pre-setting for two hand safety control with timer for optimum safety protection. Removable key selector (only on items 2102 and 2103)

Order Code		2101	2102	2103
Control unit		TF550	TF101	TE550
Nominal power @ 50%	kVA	16	20	25
Maximum welding power	kVA	47	62	84
Short circuit current	kA	16.5	19	22
Maximum welding current on aluminium	kA	15	17.4	20
Maximum welding current on steel	kA	13.2	15.2	17.6
Thermal current 100%	A	3300	3500	3800
No load secondary voltage	V	1.7	-	-
		3.4	4	4.6
Supply voltage 50Hz *	V	400	400	400
Cables section L=30m	mm²	10	16	16
Delayed fuses	Α	32	40	50
Arms gap	mm	118	118	118
Depth L	mm	160	160	160
Max. electrode force (@ 6 bar)	daN	187	187	187
Maximum stroke	mm	50	50	50
Air consumption for 1000 spots (6 bar)	bar	6.5	6.5	6.5
Stroke 20mm	Nm³	1.5	1.5	1.5
Max. stroke	Nm³	2.2	2.2	2.2
Air supply hose	mm	8	8	8
Water cooling	l/min	2.3	2.7	3
Aerial noise produced	dB(A)	68	69	71
Measure conditions				
Working stroke	mm	20	20	20
Welding time	cycles	11	7	6
Welding current	kA	13	14	16.5
Working rating in welds/min		15	15	15
Net weight (approximately)	Kg	76	81	86

*Different voltages and frequencies on request Specifications subject to change without notice

Suspended Spot Welding Guns • 16-38 kVA

3321 • 3328

Key Features

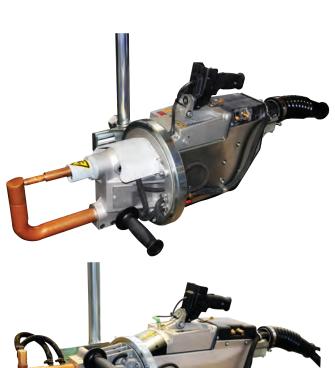
- Pneumatic operated suspended gun, with integrated TE330, TE450, TE470 or TE480 microprocessor welding control unit
- High productivity achieved with rational design, reduced dimensions, high welding capacity
- High electric efficiency
- Reduced installation costs
- Totally enclosed, rubber protected for easy and safe operation
- Gyro suspension on sealed bearings together with a spring balancer guarantees accurate manoeuvrability at any degree
- Rotation locking device
- Large selection of arms, enabling the welder to work in a wide range of applications
- Chrome-copper electrode holders for heavy duty and long life, designed for both straight and angled assembling
- Adjustable electrodes distance, adjustable short working stroke for heavy duty
- Temporary extra stroke to reach the areas to be welded
- Long working stroke to weld reinforcement ribs, jobs in areas difficult to be reached
- Water cooled transformer with epoxy resin coated windings
- Water cooled arms, electrode holders and electrodes
- Synchronous SCR contactor insulated from cooling water circuit with protection thermostat
- Oil free chromium plated cylinder and shaft for heavy duty operation and long life

The Standard Unit Includes:

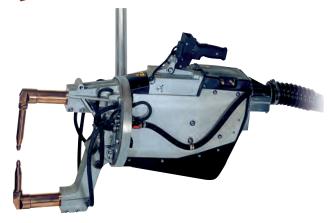
- Suspended spot gun with the chosen built-in control unit (TE470 or TE480)
- Earth leakage and circuit breaker switch
- Air filter-regulator unit with gauge
- Supply cables and hoses 6.5m length
- Voltage and frequency to be always specified

Optional Extras

- Arms and electrodes: according to tables (Arms not shown)
- Different lengths of supply cables and hoses
- Balanced equipped with rotary and insulated hook (option RI)
- The balancer may be equipped with option 'B' which allows locking of position from a floor control handle, for capacity see the technical data table.
- On demand, the welding machine is equipped with the sectioning device of cables and supply hoses. It allows a quick replacement of the machine on the production lines







Order Code		3321	3322	3323	3324	3327	3328	
Gun type		L	L	C	L	L	L	
Nominal power @ 50%	kVA	16	23	23	23	38	38	
Maximum welding power	kVA	37	65	63	52	110	92	
Short circuit current	kA	16	21	21	16.5	27	22.5	
Thermal current 100%	А	4000	4250	4250	4250	5400	5400	
No load secondary voltage	V	2.8	3.8	3.8	3.8	5	5	
Supply voltage 50Hz *	V	400	400	400	400	400	400	
Cables section L=30m	mm²	10	16	16	16	25	25	
Delayed fuses	А	32	40	40	40	80	80	
Arm spacing	mm	165	165	120	225	155	280	
Min. arms length	mm	190	190	-	250	250	250	
Max. electrode force (@ 6 bar)	daN	286	338	300	268	695	695	
Working stroke	mm	6 - 25	5 - 20	5 - 20	6 - 25	10 - 26	10 - 26	
Maximum stroke	mm	30 - 48	28 - 40	35 - 50	35 - 50	45 - 60	45 - 60	
Max. arms length	mm	650	800	-	650	1030	820	
Max. electrode force (@ 6 bar)	daN	95	93	-	113	156	196	
Working stroke	mm	18 - 72	18 - 73	-	15 - 60	40 - 100	30 - 75	
Maximum stroke	mm	90 - 140	102 - 146	-	84 - 120	165 - 225	130 - 175	
Compressed air supply	bar	6.5	6.5	6.5	6.5	6.5	6.5	
Air consumption for 1000 spots at 5 bar	Nm³	4	4	4	4	7.5	7.5	
Hose inside diameter	mm	10	10	10	10	10	10	
Water cooling	l/min	7	7	8	7	8	8	
Max mild steel sheet thickness								
With shorter arms	mm	3 + 3	4+4	4 + 4	3.5 + 3.5	5 + 5	5 + 5	
With 508mm arms	mm	1.8 + 1.8	3 + 3	-	3 + 3	3.5 + 3.5	3.5 + 3.5	
With longest arms	mm	1.2 + 1.2	2 + 2	-	2 + 2	2 + 2	2.5 + 2.5	
Cross wire maximum diameter	mm	10 + 10	14 + 14	14 + 14	12 + 12	16 + 16	16 + 16	
Spots per minute								
1+1 class A		66	80	80	80	100	100	
1.5+1.5 class A		-	32	32	32	44	44	
2+2 class A		14	16	16	16	20	20	
2.5+2.5 class A		-	-	-	-	14	14	
3.2+3.2 class B		-	-	-	-	8	8	
Net weight including cables, hoses, gyro suspension and shorter arms	Kg	46	52	53	55	76	78	
Packaging: cardboard box	mm	300 x 85	0 x 550	330 x 1120 x 630		760 x 10	760 x 1050 x 500	
Gross weight with long arm	Kg	57	63	57	57.5	119	117	
Spring Balancer								
Short arms: capacity	Kg	45 - 55	55 - 65	55 - 65	55 - 65	75 - 90	75 - 90	
Long arms: capacity	Kg	55 - 65	65 - 75	-	65 - 75	95 - 105	95 - 105	
<u> </u>	J							

Industrial Spot Welding Accessories 70226 • 70065 • 70009 • 70066



70226

Electrode Holder 215 x 19mm

70065

Electrode Holder 180 x 22mm

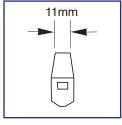
70009

Electrode Holder 295 x 19mm

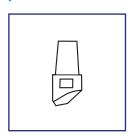
70066

Electrode Holder 2295 x 22mm

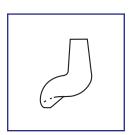
Pair of Electrodes up to 20 kVA



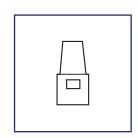
3720TE Standard



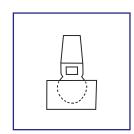
3722 Offset



3723 Cranked

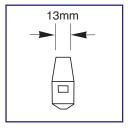


3724 Single, Flat

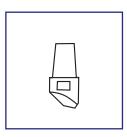


3725 Single, Swivel

Pair of Electrodes up to 25 kVA



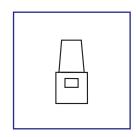
3430 Standard



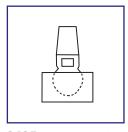
3431 Offset



3433 Cranked



3434 Single, Flat

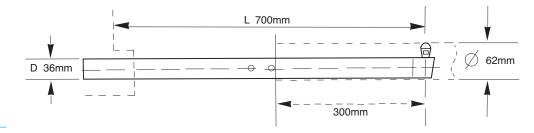


3435 Single, Swivel

Industrial Spot Welding Accessories 4506 • 4509 • 3441 • 4569

Reduced Size Arm

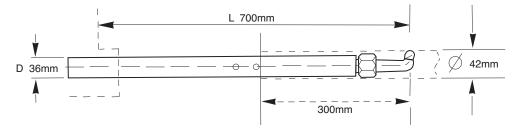
- L= 380 700 mm
- D= 36mm Ø62 mm



Order Code: 4506

Reduced Size Arm with Frontal Electrode

- L= 380 700mm
- D= 36mm Ø42mm



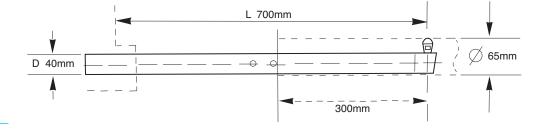
Order Code: 4509

Suitable for the Following Machines:

4640 • 4645

Reduced Size Arm

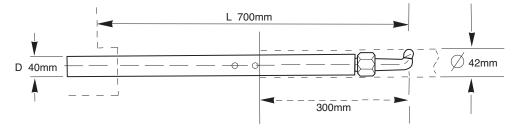
- L= 380 700 mm
- D= 40mm Ø65 mm



Order Code: 3441

Reduced Size Arm with Frontal Electrode

- L= 380 700mm
- D= 40mm Ø42mm



Order Code: 4569

Suitable for the Following Machines:

4641 • 4642 • 4643 • 4644 • 4646 • 4647 • 4648 • 4649

Balancers

TECNA balancers offer versatility for a whole range of applications

It may be used for bench assembly line works and it may be suitably applied to small tools, industrial suspended welders and multiple screwdrivers etc.

The balancers are produced in conformity with the DIN 15112 directive thanks to their high structural technology and their compliance with the laws in force they are BG certified by the relevant German institute for their safe use in the working environment.

The new ATEX balancers are an expansion of our range that is certified and suitable for installation in potentially explosive areas.















75 - 90 Kg

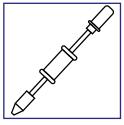
90 - 105 Kg

9370

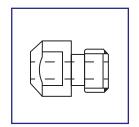
9371

Automotive Spot Welding Accessories

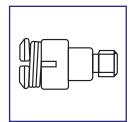
Accessories for Autospotter 7600



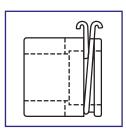
7601 Puller



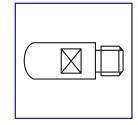
7602 Electrode for 7602, 7603, 7604



7605 Electrode for Washers



7606 Outer Electrode for 7605, 7607



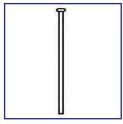
7607 Electrode for Heating/Shrinking



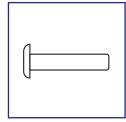
7608 Hooks for Washers



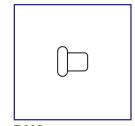
7610 Nails 2mm



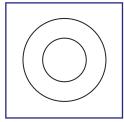
7611 Nails 2.5mm



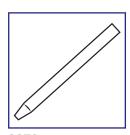
7612 Studs Threaded



7613 Stud Trim



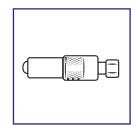
7614 Washers



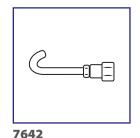
2279 Carbon Electrode



7676 Triangular Puller Washer



7641 Chuck Assembly for 7640



Hooked Washer Puller



2280 Electrode, Trim Stud



2282 Electrode, Rivets



2283 2284 Electrode, Electrode, Nails Washer 2/2.5mm



Electrode, Single Side Spot



2286 Electrode, Heat Shrink



Electrode, Patching



2305 Stud Trim 3.2 x 3mm



2306 Stud Trim 4.5 x 3mm



2308 Stud Trim 10 x 5mm



2320 Threaded Rivets M4 10mm



2321 Threaded Rivets M4 15mm



2322 2323 Threaded Rivets M4 18mm



Threaded Stud 12 x 5.5mm



2324 Threaded Stud 18 x 5.5mm



2325 Threaded Stud 25 x 5.5mm



2328 Threaded Rivets M6 12mm



7640 Side Hammer Without Chuck 3481



7643 Washer Puller

Spot Welding AccessoriesStandard Smart Gun & Arms for 3650 & EVO Accessories

Smart Gun

Patented pneumatic gun with adjustable stroke and double-function trigger:

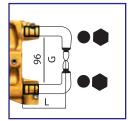
- 1) Only clamping
- 2) Welding, when the force at electrodes is correct

Item 8677: 22mm arms

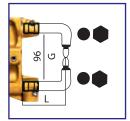
Water cooled pneumatic gun. Electrode force 30 - 240 daN.

Order Code: 8677TE





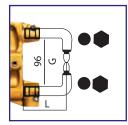
5127 Water Cooled Arms 152mm, 22mm Ø



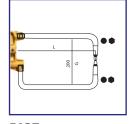
5128 Water Cooled Arms 232mm, 22mm Ø



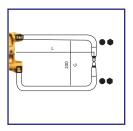
5187 Water Cooled Arms 250mm, 22mm Ø



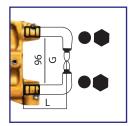
5129 Water Cooled Arms 332mm, 22mm Ø



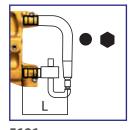
5137 Water Cooled Arms 350mm, 22mm Ø



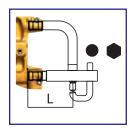
5138 Water Cooled Arms 450mm, 22mm Ø



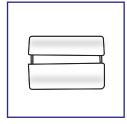
5130 Water Cooled Arms 483mm, 22mm Ø



5191 Water Cooled Arms Special 107mm, 22mm Ø



5192 Water Cooled Arms Special 107mm, 22mm Ø



33405 Brushing (Allows 20mm arms to be used with 3650)

Fast Gun

Pneumatic C-type gun water cooled:

Order Code: 8659

Arm 87mm (A)

Order Code: 8685/WS

Arm 356mm (B)

Order Code: 8686/WS

Arm 637mm (C)

Order Code: 8687/WS



High Pressure Fast Gun



Order Code: 8669TE

Spot Welding Accessories 8659 • 8669TE • 8679T & Accessories

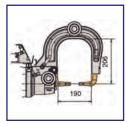




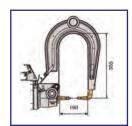
3455 Pair of Cables 2.4m for 8659 & 8669TE



8689 Bent Short Arm L = 40 mm



Short Arm Length = 87mm8685: Air Cooled 8685/WC: Water Cooled



Medium Arm Length = 356mm 8686: Air Cooled 8686/WC: Water Cooled



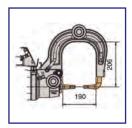
Medium Long Arm Length = 450mm 8688: Air Cooled 8688/WC: Water Cooled



Long Arm Length = 637mm 8687: Air Cooled 8687/WC: Water Cooled



8685/WS Water Cooled Short Arm L = 40mm, 16mm Caps



8684/WS Water Cooled Medium Short Arm L = 205mm, 16mm Caps



8686/WS Water Cooled Medium Arm L = 355mm, 16mm Caps



8688/WS Water Cooled Medium Long Arm L = 505mm, 16mm Caps

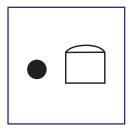


8687/WS Water Cooled Long Arm L = 635mm, 16mm Caps



8690/WS Water Cooled Arm L = 305 mm, 16mm Caps

Spot Welding Accessories 8659 • 8669TE • 8679T & Accessories



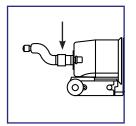
5208TE Electrode Cap Round



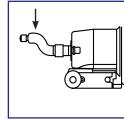
5220TE Spherical Electrode 20 x 100mm



5220/WC Water Cooled Spherical Electrode 20 x 100mm



5221/1 Fitting for Bent Electrode Holder 20 x 53mm



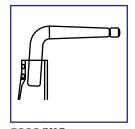
5221/2 Bent Electrode Holder 20 x 72.5mm



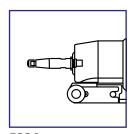
5222TE Bent Long Electrode Holder 22 x 133mm



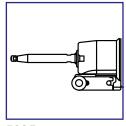
5222/WC Water Cooled Bent Electrode Holder 22 x 133mm



5223/WC Water Cooled Bent Long Electrode Holder 16mm Caps



5224 Short Electrode Holder 22 x 102mm



5225 Long Electrode Holder 20 x 166mm



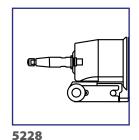
5226 Bent Electrode Holder for 8658-86-87-88 Arms



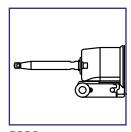
5226/WC Water Cooled Bent Electrode Holder



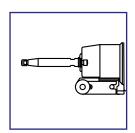
5227/WC Electrode Holder Bent 16mm Caps



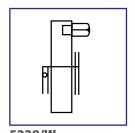
Short Electrode Holder 16mm Caps



5229 Long Electrode Holder 170mm, 16mm Caps



5230TE Special Electrode Holder 16mm Caps



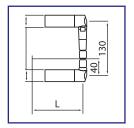
5238/W Special Water Cooled Fixed Electrode c/w 5218TE Fixed Electrode



5239/W Special Water Cooled

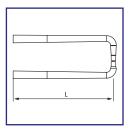
Spot Welding Accessories

8678T 'X' Gun Arms



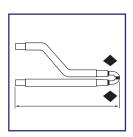
Straight

5260TE: Length = 120mm **5261TE**: Length = 155mm **5262TE**: Length = 255mm **5263TE**: Length = 355mm **5264TE**: Length = 505mm



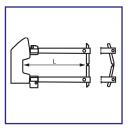
Bent

5268TE: Length = 250mm 5269TE: Length = 350mm **5270TE**: Length = 505mm



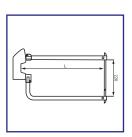
5271TE 250mm Special Arms

Heavy Duty Arms with Electrodes 12mm Ø



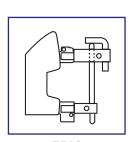
Straight

7401: Length = 125mm 7402: Length = 250mm 7403: Length = 350mm 7404: Length = 500mm 7405: Length = 600mm



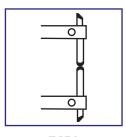
Cranked

7406: Length = 350mm 7407: Length = 500mm *220mm Gap

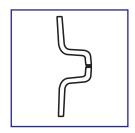


7510 Arms Special

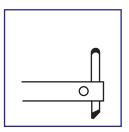
Standard Electrodes for Heavy Duty Arms 12mm Ø



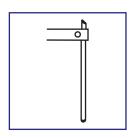
7451 Pair Straight



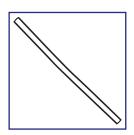
7452 Cranked Electrodes



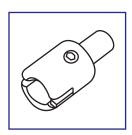
7453 Lower Electrode 12 x 45mm



7454 Upper Electrode 12 x 250mm



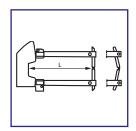
7561 Electrode Material L= 750mm, 12mm Ø



7554 Electrode Sharpener 12mm

Spot Welding Accessories

Standard Arms with Electrodes 10mm Ø



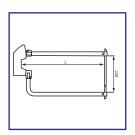
Straight

3501: Length = 125mm

3502: Length = 250mm

3503: Length = 350mm

3504: Length = 550mm



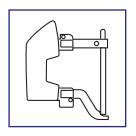
Cranked

3506: Length = 250mm

3506S: Length = 250mm

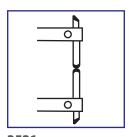
3507: Length = 350mm

3509: Length = 500mm

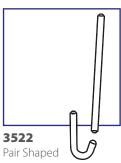


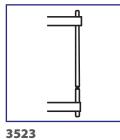
7516 Special Arms

Electrodes for Standard Arms 10mm Ø

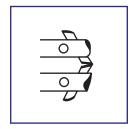


3521 Pair Straight

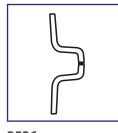




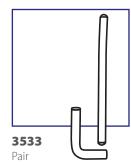
Pair

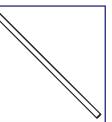


3524 Pair Shaped



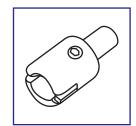
3526 Pair Shaped





3536 Electrode Material

750mm



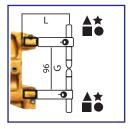
3552 Electrode Sharpener 10mm



160/1 Electrode Sharpener 16mm Ratchet Type

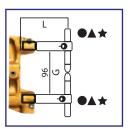
Spot Welding Accessories

18mm Diameter for 3484, 7900, 7902/P Scorpion



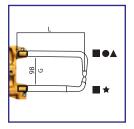
Straight

5001: Length = 107mm 5003: Length = 235mm



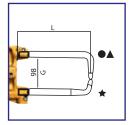
Straight

5004: Length = 332mm 5005: Length = 483mm



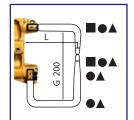
Bent

5021: Length = 107mm 5022: Length = 152mm 5022: Length = 235mm



Bent

5024TE: Length = 332mm5025TE: Length = 483mm



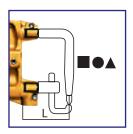
5032: Arms 152 x 200mm

5033: Arms 235 x 200mm

5034: Arms 332 x 200mm

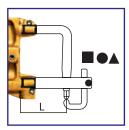
5035: Arms 483 x 200mm

Special Air Cooled Arms - 18mm Ø



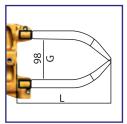
5081

Arms with Cap & Bent Electrode - Item 7335



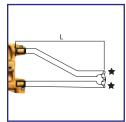
5082

Arms with Cap & Bent Electrode - Item 7335



5084

Special Arms



5085

Arms with Caps, Reduced Dimensions L=350mm

18mm Diameter Cap Electrodes for 3484, 7900,7902/P Scorpion



5201TE Round Tip Cap



5202 Conic Tip Cap



5203TE Excentric Tip Cap



5204TE Excentric Tip Cap 12°



7351 Electrode Cap Round

16 mm

Cap Electrodes 16mm



5231 Electrode Cap Round

16 mm



5232 Electrode

Cap Truncated Cone 16 mm



5233

Flectrode Cap Round



5234 Electrode Cap Round

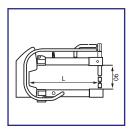
16 mm





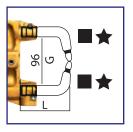
Spot Welding Accessories

Water Cooled Arms & Electrodes for Hand Spot Gun 7913

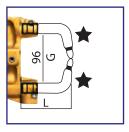


7512: Length = 150mm 7513: Length = 250mm 7514: Length = 350mm 7515: Length = 500mm

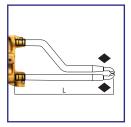
Water Cooled Heavy Duty Arms with Electrodes 20mm Diameter for 8095SG, 3450 (8672 Gun)



Bent5121: Length = 107mm
5122: Length = 152mm

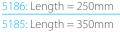


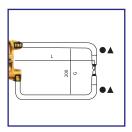
Bent5124: Length = 332mm
5125: Length = 483mm



Dimensions 5186: Length = 250mm

Arms of Reduced





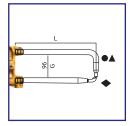
Arms
5134: L = 350mm H = 200mm
5136: L = 550mm H = 200mm



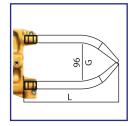
5181Arms with Electrodes & Bent Electrodes (7335)



5182Arms with Electrodes & Bent Electrodes (7335)



5183 Special Arms



5184 Arms of Redcuded Dimensions L = 350mm

Water Cooled Electrodes



5210TERound Tip
Set of 12 pcs



5211TEConic Tip
Set of 12 pcs



5212TEExcentric Tip
Set of 12 pcs



5213TEExcentric Tip 12°
Set of 12 pcs



5214TEFlat Electrode
Set of 12 pcs



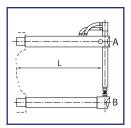
5215TEReduced
Dimension



5216TESpecial
Electrode

Spot Welding Accessories

Suspended Gun Arms & Electrodes

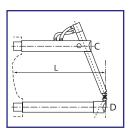


Upper Arm Straight (A)

4850: Length = 190mm 4854: Length = 250mm 4858: Length = 350mm

4862: Length = 508mm

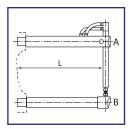
4866: Length = 650mm



Upper Arm Angled (C)

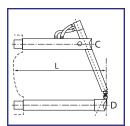
4851: Length = 190mm 4855: Length = 250mm 4859: Length = 350mm 4863: Length = 508mm

4867: Length = 650mm



Lower Arm Straight (B)

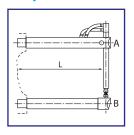
4852: Length = 190mm 4856: Length = 250mm 4860: Length = 350mm 4864: Length = 508mm 4868: Length = 650mm



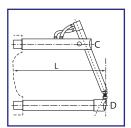
Lower Arm Angled (D)

4853: Length = 190mm 4857: Length = 250mm 4861: Length = 350mm 4865: Length = 508mm 4869: Length = 650mm

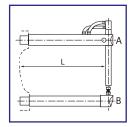
Suspended Gun Arms & Electrodes



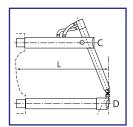
4870 (A) Upper Arm Straight 800mm



4871 (C) Upper Arm Angled 800mm

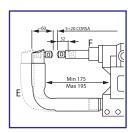


4872 (B) Lower Arm Straight 800mm



4873 (D) Lower Arm Angled 800mm

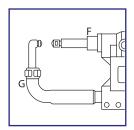
Arms for Suspended Spot Gun 3323



4882 (F) Upper Arm

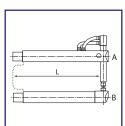


4883 (E) Lower Arm



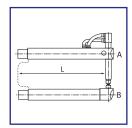
4884 (G) Lower Arm with Reduced Ø

Straight Arms for Suspended Spot Gun 3327



Upper Arm (A)

4750: Length = 255mm 4756/T: Length = 408mm



Lower Arm (B)

4752: Length = 255mm 4758: Length = 408mm