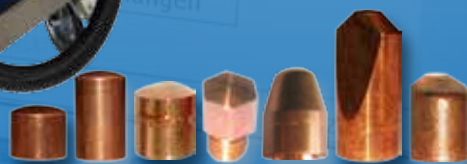
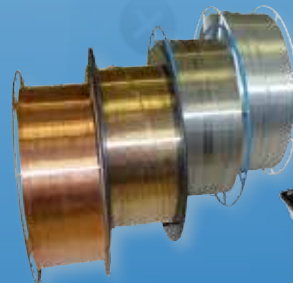
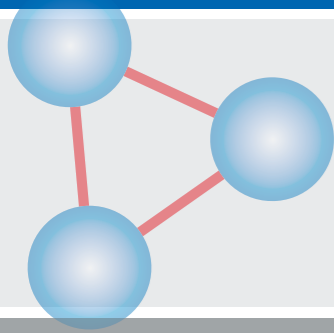


Bodywork repair





ELMA-Tech The Welding Process - Verstehet

In the field of plasma, arc and resistance technology we use our self-developed microprocessor-based process control „Virtual Machine“ (after P. Puschner) in our welding equipment produced in Germany.

With this welding process control, we achieve unrivaled results at the customer, above all with regard to welding quality, process reliability and energy efficiency.

Since the founding of ELMA-Tech on the basis of the acquisition of the arc division of DALEX in 2002, we developed ourselves as a plant manufacturer in the field of welding technologies to the solution provider for complex processes in the arc and plasma, as well as the resistance spot welding technology.

Our claim:

Welding today the materials of tomorrow!



Countable benefit ...

- Best reproducible and fast welding quality
- Highest process reliability
- Maximum energy cost savings
- Comfortable handling



Produced in ...



Premium welding quality through technological development cooperation with the manufacturers!

For years car repair shops, car body construction and body repair shops around the world rely on ELMA-Tech welding machines. Especially the Plug & Weld spot welding machines with their fully automatic welding process control, their Aluminum welding function and the integrated quality assurance system offer bodyshops the ultimate in technologically advanced spot welding technology.

Why? Because ELMA-Tech spot welding technology has always been developed in close connection with the requirements of the automotive industry and is in practical use in its pilot halls, in pre-assembly, in rework stations as well as in small series production. For this reason, our machines already weld aluminum, magnesium or new composites such as Litecor (ThyssenKrupp).

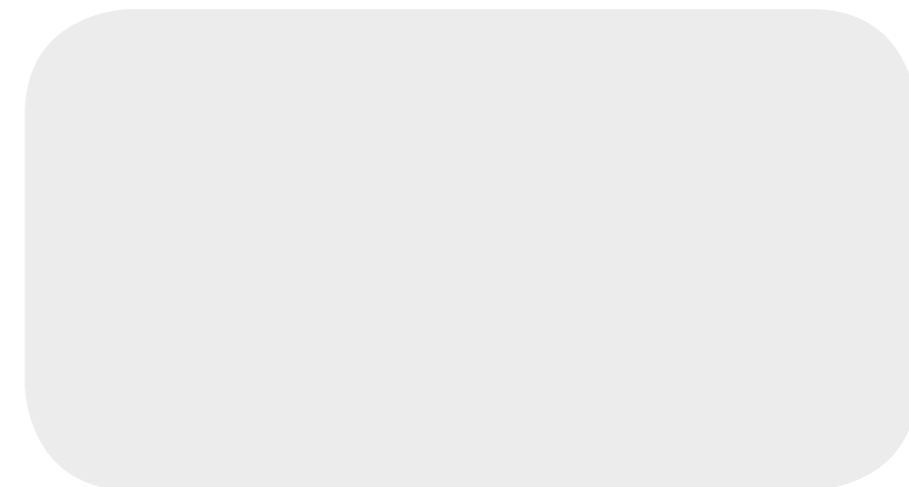
With ELMA-Tech spot welding machines and arc welding machines, you are on the safe side of technology and invest in the welding technology of tomorrow with the materials of tomorrow! We have the automotive welding technology for you!

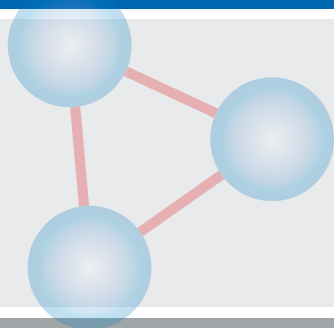


Service

- Expert advice at your site with machine presentation
- Service on site
- Rental equipment and rental welding guns available
- Competent help from our sales and service staff
- Careful testing of malfunctioning machines in our service department
- Detailed cost estimate
- Fast execution of the repair

Your contact





PREMIUMspot VISION ...

Multifunction spot welding machine in the premium class with complete software package for worry-free automotive repair!

Body repair easier than ever before! Quality welding without manual settings! The machine takes on responsibility for:

- Automatic control of the energie yield
- Automatic detection of total sheet thickness
- Automatic detection of material type
- Automatic parallel resistance detection
- Automatic energy tracking

Fully automatic welding particularly of components made of high- or maximum strength and also coated and laminated steel panels. **Aluminum welding** for thin aluminum sheets up to 3 mm. All required welding tasks performed by a single device:

- Spot welding in automatic mode without prior adjustments
- Conventional spot welding in standard mode with setting of current and time
- Spot-welding with quality assurance and energy control: Welding programs for coated panels and panels still containing traces of paint or adhesive residues, including independent parallel resistance detection system and stabilizing control as well as vehicle-specific programs with approved parameters of vehicle manufacturers
- Spotting, dent repair, pulling of steel plates, welding-on of pins and T-pins (with optional spotter)

Characteristics PREMIUMspot VISION

- Welding process control *Virtual Machine* (VM3)
- High welding currents even with low fuse protection
- High quality performance „spot by spot“
- Energy control
- Parallel resistance detection
- Reproducible welding quality
- Welding parameters can be updated via USB-Stick at any time
- Welding data documentation with the use of Spot QS Viewer (optional)
- Complete software package
- Equates to the exposure limit values of the EU-Directive 2004/40/EG
- Easy and quick exchanging of C- and X-gun

Fully automatic welding with Plug & Weld



Electrode case with 40 mm arm



80 mm



350 mm



500 mm



Item no.

2_1028.1_1



Standard equipment

C-gun with 6 m cable hose packet
Arms: 40 / 80 / 350 / 500 mm outreach
10 m main connection with 32 Amp. plug
Electrode case
Delivered software package:
VISION-AUTO, VISION-SPEZIAL, VISION-ALU,
ELMA-QS, STANDARD, SINGLE, OPEL, OPEL-VP

Option (i.a.)

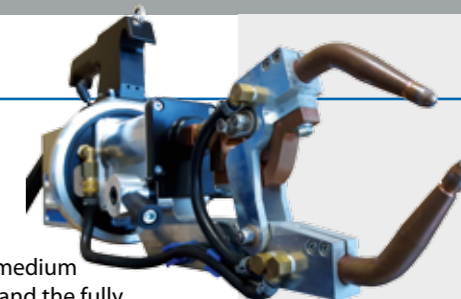
It may come to higher loads of the spot welding guns in the production of larger sized body construction. In such cases, it is advisable to equip our PREMIUMspot VISION with an **internal active cooler** in order to achieve maximum cooling of the flow temperature of the water in the cooling circuit of the guns.

... with welding process control *Virtual Machine* (VM)

Optimize workshop processes. Save working time. Innovative - uncomplicated - fast - safe!

Also according to the market, ELMA-Tech spot welding systems are technological leaders. 10 kHz medium frequency technology, small transformers, light spot welding guns, virtual measuring technology and the fully automatic welding mode together with the integrated quality assurance system offer the customer easy work with the highest welding quality.

The innovation of the ELMA-Tech spot welding technology consists in the type of process control of the spot welding process with the **unique process control virtual machine** - now in the 3rd generation (VM3).



Operation panel of VM3

7" TFT color display (16:9)
800 x 480 px resolution
LED-Backlight
Signaling machine status
Signaling quality status
USB interface

The Plug & Weld principle

Switch on ...
Electrode check ...
Address automatic mode ...
Weld!

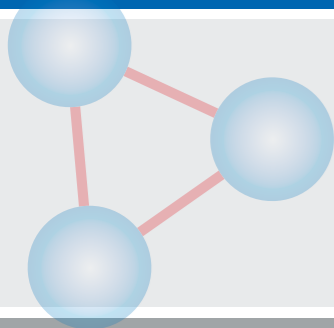
Are your employees still setting parameters or do they already weld?

Spot welding with *Virtual Machine*: For fast and uncomplicated work processes in body repair!



Automobildesign Becker, Reichshof, Germany

... relies on ELMA-Tech spot welding machines



ELMAspot VISION

Multifunction spot welding machine with fully automatic welding process

For the resistance welding of components made of high-strength steels as well as multiple sheet panel connections, coated and laminated steel panels with quality statement regarding the welding process (welding result) - no parameter settings necessary. This unique control technology with Virtual Machine also enables the welding of new materials without the requirement of further adjustments.

Characteristics ELMAspot VISION

- Control of welding process with *Virtual Machine* (VM3)
- 5,5 kN electrode force in all C centre-arm distances (80, 350, 500 mm) at 6 bar
- 5 m mains cable with 32 Amp. CEE connector
- Main circuit breaker
- Extremely low spot welding gun weight (eg. C-gun 10.5 kg)
- Quick coupling connection for plugable cable hose package (4 m)
- Internal (not active) water cooling with a large 70 liter tank
- High welding currents even with low fuse protection
- Digital welding control - Virtual Machine - with quality assurance system and display
- Precise process regulation, energy control, parallel resistance detection
- Reproducible welding quality
- Update-ability via USB-interface
- Printout of the welding parameters via SpotQS-Viewer Software (optional)

The new efficiency in spot welding

Elmaspot Vision - the „little sister“ of PREMIUMspot VISION does not have to hide behind its „big sister“ in terms of technology, because the control technology is the same!

Both spot welding machines differ from each other only in the equipment.

For operating a spot welding gun in C or X design.

With 70 l water tank (without active cooling) or with active cooling (cooling unit with adjustable flow temperature).

Individual solutions, e.g. for connection to an external ring line or to an external active cooler are possible (e.g. at continuous operation request)! Ask us.

Fully automatic welding with Plug & Weld

Item no.

2_1008.1



Standard equipment

C-gun with 4 m cable hose packet
Arms: 80 / 350 / 500 mm outreach
5 m mains connection with 32 Amp. plug
Electrode case with C-electrode shafts
Delivered software package:
VISION-AUTO, STANDARD

Options (i.a.)

- ELMAspot T without VM process control
- Internal active cooling unit
- External water cooling units
- Longer hose package
- Longer mains connection
- Version with balancer kit
- SpotQS Viewer welding data documentation
- Delivery with X-gun
- X-gun adapter

ELMAspot VISION with internal, active water cooler for higher demands in body repair or in body construction.



Optional features for spot welding machines

Item no.

Spotter / multifunction guns W G



Gas-cooled multifunction gun (spotter) with 2,5 m cable length for spotting, dent-repair, pulling, welding-on of pins and t-pins

- incl. pulling hammer for buckling
- incl. adapter to connect to an ELMA-Tech Transformer-C- gun
- incl. accessory case



1_9001.1

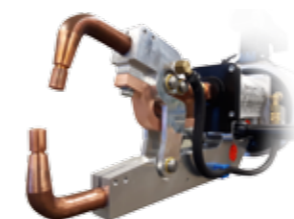


Water-cooled spotter with 2,5 m cable length for spotting, dent-repair, pulling, welding-on of pins and t-pins

- incl. pulling hammer
- incl. adapter to connect to an ELMA-Tech Transformer-C- gun
- Accessory case with i.a. pulling hammer for buckling (optional)

1_9089.1

X-Zangenadapter



X-gun adapter with angular electrode shafts

Important: Before use, check whether adapters are compatible with existing spot welding guns!

only electrode shafts

X-gun adapters are ingeniously practical! An interesting and economical option for customers who operate our fully automatic spot welding machines with standard C-guns, but would need an X-gun for occasional welding tasks.

Within a minute, the existing C-gun can be converted to an X-gun with our X-gun adapters. Available for all ELMA-Tech mobile spot welding machines. Our sales department will be happy to answer any questions on this topic.

16_1037.3

16_0034.2_AV



X-gun adapter with beak-shaped electrode shafts

only electrode shafts

16_1037.3_1

11_2173.0

Balancer-Kit



A balancer kit stabilizes the position of an ELMA-Tech spot welding machine when a spot welding gun is attached to the boom of the machine by means of a balancer. The kit consists of:

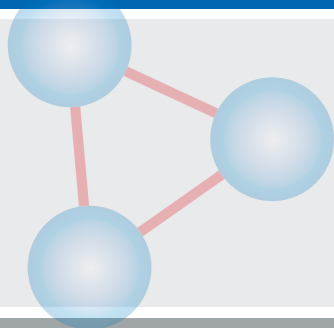
- Spring balancer with accessories
- Boom with snap hook
- Boom holder with accessories
- Broadened wheelbase with accessories

16_0041.3

Exactly for your needs and requirements

Realize your vision!

At ELMA-Tech you do not buy off-the-peg! Our sales team will be pleased to advise you on all equipment and accessories for our spot welding machines.



MIDI MIG 300 DC G W

MIDI MIG 300 AC/DC G W

Item no.

The leading process control for aluminum welding processes

Multifunction welding inverter with process control *Virtual Machine*

The multifunction knob allows the machine to be adjusted easily and speedily to specific welding tasks like the welding or MIG-brazing of different materials like steel, aluminum, magnesium or galvanized sheets..



DC, gas-cooled (G)

The arc welding machine MIDI MIG is not only the best-selling pulse system in collision repair, but has also been used in industry and in the automotive industry for many years due to its versatility and robustness.

Standard equipment

- Integrated 4-rolls wire feed unit; Remote control
- DC: 1 Welding torch ML 24/3 S ZA
- AC/DC W:
1 Welding torch MW EV 45/3 m
- AC/DC G:
1 Welding torch ML EV-20/3 m
- 1 Earth cable 5 m, 1 Pressure regulator
- 1 Basket coil adapter
- 1 gas hose 1,5 m
- 1 Trolley with gas bottle holder



AC/DC, water-cooled (W)

Welding methods



◀ MIG, MAG, MIG-Puls, MIG soldering, DUAL pulse welding, stick electrode welding

MIG AC pulse welding, MIG DC pulse welding, MIG / MAG, DUAL pulse welding, MIG soldering



AC/DC, gas-cooled (G)

AC/DC: premium technology for alu processes

- Avoiding of strong warping due to the very good heat control with the help of the negative ground current
- Premium gap bridging
- Reduced penetration depth at a higher deposition rate
- Minimal spattering
- Improved droplet dissolution
- Highest reproducibility and adjustment accuracy
- Especially suitable for welding aluminum thin sheets < 1mm thickness

DC versions:

- ▶ 1_3577.1_7_SET (G)
- ▶ 1_3577.1_8_SET (W)

AC/DC versions:

- ▶ 2_3005.1_SET (G)
- ▶ 2_3006.1_SET (W)

The special advantages of AC welding in the arc

The spot welding machines from ELMA-Tech with their fully automatic welding mode have been known in body repair for years. With the „VISION ALU“ aluminum mode, maximum total sheet thicknesses of up to 3.0 mm can be spotted - the parameters are selected by the system itself.

But also in the arc sector, especially the AC systems from ELMA-Tech offer convincing advantages to the body and vehicle operation. Further developments in the field of inert gas welding took already place in the 1990s with the introduction of HF-free commutating AC generators for both TIG and MIG / MAG machines.

The importance of these innovations lies in the possibility of shifting the energy balance between the electrode and the base material, which makes it possible to weld thin sheets or pairings with higher gaps in unprecedented ways. At the same time, AC frequencies independent of the mains frequency can be generated with freely selectable phase shifts. The results of these innovations are impressive:



- „Coldest“ AC process in the market
- Ideal for aluminum welded joints
- Best process properties
- Excellent gap bridging
- Minimal heat input into the workpieces

Welding process with *Virtual Machine* (VM)

COLD ELMARC

Easy gap bridging up to 4 mm with 1.2 mm thickness (aluminum)
Easy welding of aluminum thin sheets even under 1 mm sheet thickness



MIDI MIG

The strong and just right sized solution for your automotive repair shop!

Intelligent process control for high-quality welding results.
Economical, robust and safe!
Tried and tested thousands of times in industry and automotive.

MIG 240 DUO

Robust universal inert gas welding machine

A robust and reliable welding machine for welding on steel, stainless steel and aluminum thin sheets. Slim construction with 3 burner connections for absolutely flexible working!

Absolute Flexibility!

Standard equipment

- 2 x 7 switching steps for MIG / MAG and MIG brazing
- 2 x 4 roller drives for coils up to 300 mm
- 2 / 4 stroke operation spot / interval control
- 1 x welding torch MB 25 / 4 ZA (4 m)
- 1 x welding torch MB 25/3 ZA (3 m)
- 2 x pressure regulator
- 2 x basket coil adapter
- 2 x torch holder
- 1 x workpiece lead 4 m
- 2 x gas hose 1,5 m

Welding methods

MAG, MIG, MIG soldering

Special feature

Maximum flexibility! Weld with 3 different types of wire! Without conversion, it is possible to connect a third welding torch with a wire coil attachment (spool gun). The selection of the respective torch is done by toggle switch.

Technical data

Supply voltage	3 x 400 V
Setting range MIG/MAG	30 – 240 A
Open circuit voltage	11 – 33 V
Duty cycle (40°C)	HSB 35 % ED: 240 A
	HSB 60 % ED: 140 A
	HSB 100% ED: 110 A
Protection	IP 23
Isolation class	H
Weight	60 kg
Dimensions L x W x H	880 x 496 x 900 mm

▶ 94_0133.4_SET

KARoMIG



Powerful inert gas welder especially for car repair shops

With air-cooled welding torch, particularly suitable for welding thin to medium thick sheets.

Characteristics

- 2 roller drive
- Overtemperature protection
- 2 / 4 stroke operation
- Euro central connector
- Wire burn-back time, gas test

Standard equipment

MIG / MAG system, 3 m welding torch Ergoplus 15/3 ZA, 3 m workpiece lead, pressure regulator, basket coil adapter

Robust work horse!

Technical data

Supply voltage	3 x 400 V 50/60 Hz
Max. power output	6,8 kVA
Continuous- / max. current	2,9 / 9,8 A
Fuses	16 A (slow-blow)
Connecting cable	4 x 1,5 mm ² Cu
Power factor cos.	φ: 0,75
Setting range	30 - 180 A
Open circuit voltage	16,5 - 43 V (approx.)
Duty cycle:	
HSB 20% ED	180 A / 22 V
HSB 60% ED	90 A / 19 V
DB 100% ED	70 A / 18 V
Solid wires	
Steel / stainless steel	0,8 mm - 1,9 mm
Aluminum	1,0 mm
Dimensions L x W x H	816 x 460 x 660 mm
Weight	67 kg
Gas bottle holder	Up to 20 l (mixed gas)

▶ 1_3641.1

EL-MIG 165

Handy universal inverter

EL-MIG 165 is a compact, lightweight portable inverter, for example ideal for assembly work. Wire rolls up to 200 mm can be used. Cored wire can be welded with polarity changes without gas. For longer seams the process can be switched to 4 stroke operation.

The device has a PFC function installed. Thus welding goes up to 200 A with only 16 A fuse. PFC reduces the connection current by 35%, the power consumption is correspondingly lower. This means that the device is very economical.

Functions: MIG 2/4 stroke, polarity change, central connector. Energy-saving with PFC, wire soft start. Holder for disposable gas bottle. Single phase. Portable, for 5 kg wire coils.

Technical data

Supply voltage	230/240 V 50/60 Hz
Fuse (slow-blow)	16 A
Welding range MIG	30 - 165 A
Open circuit voltage MIG	17 - 25 V
Duty cycle MIG (40° C)	100 % - 120 A
	60 % - 140 A
	25 % - 200 A
Welding wire	0,6 - 0,8 mm (Stahl)
Protection	IP 21
Isolation class	H
Cooling	AF
Dimensions L x W x H	525 x 260 x 340 mm
Weight	14 kg

Energy saver!

▶ 94_0141.4_SET

MIG 202

Compact universal inverter



The compact MIG / MAG inert gas system MIG 202 is equipped with an air-cooled welding torch and is particularly suitable for vehicle repairs, workshop operations and locksmiths. Areas of application include welding with thin to medium thick sheets and MIG brazing for coated sheets.

Characteristics

- 2 roller drive
- Overtemperature protection
- 2 / 4 stroke operation, central connector, adjuster for wire burn-back time,
- Gas test
- Welding capacity in 7 settings
- Simplified operation thanks to automatic wire feeder
- Adjusting the wire feeding speed to the type of gas
- Adjuster for wire burn-back time
- Thermal protection of main transformer and rectifier
- Indicating lamps „Ready“ and „Failure“

Classic!

Technical data

Supply voltage	3 x 400 V 50/60 Hz
Connection load	7,2 kVA
Current	10 A
Fuse	10 A (slow-blow)
Connecting cable	4 x 1,5 mm ² Cu
Setting range	30 - 200 A
Open circuit voltage	15,5 - 33 V (approx.)
Duty cycle	
HSB 20%	200 A
HSB 60%	139 A
DB 100%	100 A
Solid wires	
Steel / stainless steel	0,8 - 1 mm
Aluminum	1,0 mm
Dimensions L x W x H	790 x 440 x 730 mm
Weight	58 kg
Protection	IP 23
Isolation class	H
Certification	S-Zeichen

▶ 94_0107.4

Step machine

Standard equipment

Welding torch MG 150 / 3m, earth cable, gas hose, pressure regulator

Welding methods

MIG, MMA

Step machine

Welding methods

Seam welding, spot welding, MIG soldering

Standard equipment

MIG / MAG system, welding torch Ergoplus 15/3 ZA, workpiece lead, pressure regulator, basket coil adapter, gas hose

Overview accessories & consumables spot welding

Order accessories & spare parts

				
Accessories box with electrode caps	Standard electrode cap Ø 13 mm	Special electrode cap Ø 13 mm, L = 12 mm	Special electrode cap Ø 13 mm, L = 22 mm	Standard electrode cap Ø 16 mm
				
Special electrode cap M8 for spherical head electrode	Electrode cap for spotter, Ø 13 mm	Electrode cap (Spade shape)	Electrode cap (D-shape, conical)	Special eye for pulling (Packaging unit = 20 pcs.)
				
Carbon electrode	Corrugated wire (Packaging unit = 50 pcs.)	Electrode cap spanner	Electrode cap file (for Ø 13 and 16)	Electrode cap milling machine (incl. 1 cutter)
				
Electrode cap cutter (incl. blade) Ø 13, 16 mm	Spare blade for cutter Ø 13, 16 mm (for Art. No. 16)	Weld nugget solvent MIDI Drill	Drill 3-cutter Ø 8 mm (for Art. No. 18)	Schleiflix universal cleaner
				
Anti-sticking paste	Accessories box (empty)	Coolant CS 330 Container with 3 l / 10 l	Cover hood for PREMIUMspot VISION	SpotQS-Viewer Software Welding data documentation
				
HL-ball cutter Ø 8, 10 mm				

No.	Product description	Item No.	Number
1	Accessories box with electrode caps	16_0040.3	
2	Electrode cap, standard, Ø 13 mm	90_1330.4	
3	Electrode cap, special, Ø 13 mm, L = 12 mm	90_1330.4_3	
4	Electrode cap, special, Ø 13 mm, L = 12 mm	90_1330.4_2	
5	Electrode cap, standard, Ø 16 mm	90_1627.4_1	
6	Special electrode cap M8 for spherical head electrode	90_1331.4	
7	Electrode cap for spotter, Ø 13 mm	90_1345.4	
8	Electrode cap (Spade shape)	90_1400.4	
9	Electrode cap (D-shape, conical)	90_1336.4	
10	Special eye for pulling, three sides (Packaging unit = 20 pcs.)	90_1228.4	
11	Carbon electrode	90_1229.4	
12	Corrugated wire (Packaging unit = 50 pcs.)	91_4750.4	
13	Electrode cap spanner	X-Schlüssel_53	
14	Electrode cap file (for Ø 13 and 16)	90_1704.4	
15	Electrode cap milling machine (incl. 1 cutter) Ø 13 mm	90_1367.4	
	Electrode cap milling machine (incl. 1 cutter) Ø 16 mm	90_1367.4_1	
16	Electrode cap cutter (incl. blade) Ø 13 mm	90_1366.4	
	Electrode cap cutter (incl. blade) Ø 16 mm	90_1364.4	
17	Spare blade for cutter Ø 13 mm	90_1366.4_1	
	Spare blade for cutter Ø 16 mm	90_1364.4_1	
18	Weld nugget solvent MIDI Drill	83_0289.4	
19	Drill 3-cutter Ø 8 mm	83_0513.4	
20	Schleiflix universal cleaner	X_Schleiflix_120	
21	Anti-sticking paste, can	90_1323.4	
22	Accessories box (empty)	9_8572.4	
23	Coolant CS 330, container with 3 l	1_6115.3	
	Coolant CS 330, container with 10 l	1_6116.3	
24	Cover hood for PREMIUMspot VISION	1_6231.3_D	
25	SpotQS-Viewer software for welding data recording PREMIUMspot, evaluation and archiving and DIN A printouts via USB via any PC possible. System requirement: As of Microsoft .NET Framework 2.xx under Windows XP, Vista, 7, 10	1_7617.3_QS	
26	HL ball cutter for axial grinder Ø 8 mm, golden head	600100	
	HL ball cutter for axial grinder Ø 10 mm, golden head	600101	

Ask your supplier for the best price ...

We are happy to answer your questions about our accessories! Ask your dealer.

Customer number:	Phone number:
Company:	E-Mail:
Name:	Forename:
Address:	Order date:
Post code:	Company stamp, signature
City:	

Overview accessories & consumables arc welding



No.	Product description	Item No.	Number
MIG 202 - spare parts & accessories			
1	MIG welding torch Ergoplus 15/3 ZA	91_4873.4	
2	Pressure regulator DM 1	9_1704.4	
3	MIG welding torch Ergoplus 15/4 ZA (Option)	91_4874.4	
KARoMIG - spare parts & accessories			
4	MIG welding torch Ergoplus 15/3 ZA	91_4873.4	
5	Pressure regulator DM 1	9_1704.4	
6	MIG welding torch Ergoplus 15/4 ZA (Option)	91_4874.4	
MIG 240 DUO - spare parts & accessories			
7	Welding torch MG 250/3, 3 m Länge	91_6262.4	
8	Welding torch MG 250/4, 4 m Länge	91_6263.4	
9	Pressure regulator DM 1	91_6283.4	
10	Pressure regulator DM 2	91_6284.4	
11	Gas hose GS 1,5	1_6175.2	
12	Gas hose GS 3	1_6023.2_A3	
13	Earth cable	90_1022.4	
14	Basket coil adapter	91_0320.4	
EL-MIG 165 - spare parts & accessories			
15	MIG welding torch MG 15.3	91_6285.4	
16	Earth cable	90_1022.4	
17	Gas hose	1_6175.2	
18	Pressure regulator DM	91.6284.4	
MIDI MIG 300 DC - spare parts & accessories			
19	MIG welding torch ML 24 / 3 S ZA, gas-cooled	91_1280.4	
20	Polyamide core 2 x 4 für 4 m	91_6100.4	
21	Pressure regulator DM 1	9_1704.4	
22	Earth cable 50 qmm, 5 m	90_1022.4	
23	Basket coil adapter KT 1	91_0320.4	
24	Gas hose 1,5 m	1_6175.2	
25	Trolley with gas bottle holder	1_4581.1	
26	Water cooling	1_4587.1	
27	MIG welding torch ML 24/4 S ZA, gas-cooled (Option)	91_1281.4	
28	MIG welding torch MW 240/3 S ZA, water-cooled (Option)	91_0540.4	
29	MIG welding torch MW 240/4 S ZA, water-cooled (Option)	91_0541.4	
30	Active cooling unit MIDI cooling shuttle (Option)	1_4587.1	

Overview accessories & consumables arc welding

No.	Product description	Item No.	Number
31	Welding wire CuSi 3, 1.0 mm Ø, 5 kg coil	91_4671.4	
32	Welding wire CuSi 3, 1.0 mm Ø, 15 kg coil	91_4555.4	
33	Welding wire Alu AISI 5, 1.2 mm Ø, 7 kg coil	91_1125.4	
34	Welding wire SG 2 D 300, 0.8 mm Ø, 15 kg coil	91_1100.4	
35	Welding wire SG 2 D 300, 1.0 mm Ø, 15 kg coil	91_1101.4	
36	Wire feeding rolls (Packaging unit=2) 1,0 / 1,2 Alu	9_4532.4	
37	Helmet Solar DIN 9-13 (Option)	91_4917.4	
MIDI MIG 300 AC/DC - spare parts & accessories			
38	MIG Welding torch ML EV-20/3 m, gas-cooled	91_6250.4	
39	MIG Welding torch MW EV 45/3 m, water-cooled	91_6254.4	
40	Pressure regulator DM	9_1704.4	
41	Earth cable 50 qmm, 5 m	90_1022.4	
42	Gas hose 1,5 m	1_6175.2	
43	Basket coil adapter KT 1	91_0320.4	
44	Polyamide core 2 x 4 für 4 m	91_6100.4	
45	Water cooling	1_4587.1	
46	Trolley with gas bottle holder	1_4581.1	
47	MIG welding torch ML EV-20/4 m, gas-cooled (Option)	91_6251.4	
48	MIG welding torch MW EV 45/4 m, water-cooled (Option)	91_6255.4	
49	Welding wire CuSi 3, 1.0 mm Ø, 5 kg coil	91_4671.4	
50	Welding wire CuSi 3, 1.0 mm Ø, 15 kg coil	91_4555.4	
51	Welding wire Alu AISi 5, 1.2 mm Ø, 7 kg coil	91_1125.4	
52	Welding wire SG ALMg 4,5 Mn, 1.2 mm Ø, 7 kg coil	91_1116.4	
53	Welding wire SG 2 D 300, 0.8 mm Ø, 15 kg coil	91_1100.4	
54	Welding wire SG 2 D 300, 1.0 mm Ø, 15 kg coil	91_1101.4	
55	Wire feeding roll Alu 1.0 / 1.2	9_4532.4	
56	Wire feeding roll steel 0.8 / 1.0 Trapez DV 12	9_4180.4	
57	Wire feeding roll steel 1.2 / 1.6 Trapez DV 12	9_4214.4	
58	Helmet Solar DIN 9-13	91_4917.4	

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