

VarioProtect[®] solar power

schweisskraft[®]
Schweißtechnik

WELDING HELMETS WELDING PROTECTION WELDING ACCESSORIES



Welding helmets

Automatic welding filter **VARIOPROTECT** – vull vision with effective protection for your eyes

- ▶ Effective eye protection thanks to automatic dimming after a very short reaction time as soon as the arc is ignited
- ▶ Electronically controlled liquid crystal elements act as diaphragms that recognise the welding arc and react immediately by displaying a dark or bright image
- ▶ UV/IR filter keeps out harmful radiation
- ▶ On some models, the protection level can be

- continuously adjusted on the outside of the helmet without having to remove the helmet
- ▶ Stepless sensitivity adjustment
- ▶ Adjustable switching reaction time from dark to light

- ▶ Automatic darkening of the welding filter can be deactivated, can also be used for grinding in grinding mode
- ▶ Thanks to the automatic on/off function no button needs to be pressed
- ▶ Solar cell operation

VarioProtect® solar power

TRUE COLOUR DISPLAY

The next display generation: TrueColour

- ▶ True colour cassette for increased control: Welding in true colour and with more contrast improves the detection of surfaces and coloured elements of the working environment



Display head for grinding & welding helmets

- Head diameter: 60 cm
- Weight approx: 0.8 kg
- Material: Plastic

Art. no.	height
8150240	400 mm





**TRUE COLOUR
DISPLAY**

**PANORAMA
FIELD OF VIEW
SIDE
WINDOW**



**GREEN
DISPLAY**

The next display generation with a wide field of view:
TrueColor and Panorama

- ▶ True Colour cassette in the main viewing window for increased control: Welding in true colour and with more contrast improves the detection of surfaces and coloured elements of the working environment
- ▶ Side windows with "Green Displays"
- ▶ Pleasant welding with 180° field of vision thanks to the side windows on the right and left



**TRUE COLOUR
DISPLAY**

**PANORAMA
FIELD OF VIEW**

The next display generation with a wide field of view:
TrueColor and Panorama

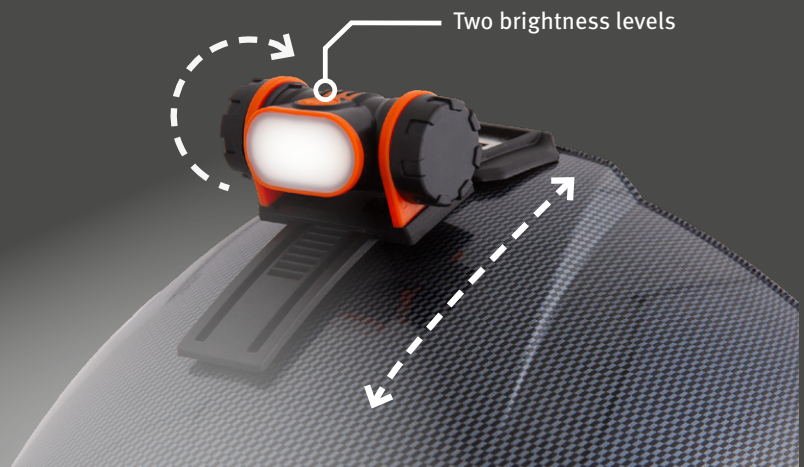
- ▶ True Colour cassette in the main viewing window for increased control: Welding in true colour and with more contrast improves the detection of surfaces and coloured elements of the working environment
- ▶ Pleasant welding with 180° field of vision thanks to the side windows on the right and left



LED LIGHT

The LED light can be effortlessly attached to all **labelled** welding helmets:

- > VarioProtect M-W
- > VarioProtect XL-W TC
- > VarioProtect 3XL-W SW TC
- > VarioProtect 3XL-W DIGITAL TC
- > VarioProtect XXL-W-2 TC (all)
- > VarioProtect XXL-W TC AIR TH3
- > VarioProtect XXL-W F-TC
- > VarioProtect XXL-W F-TC AIR

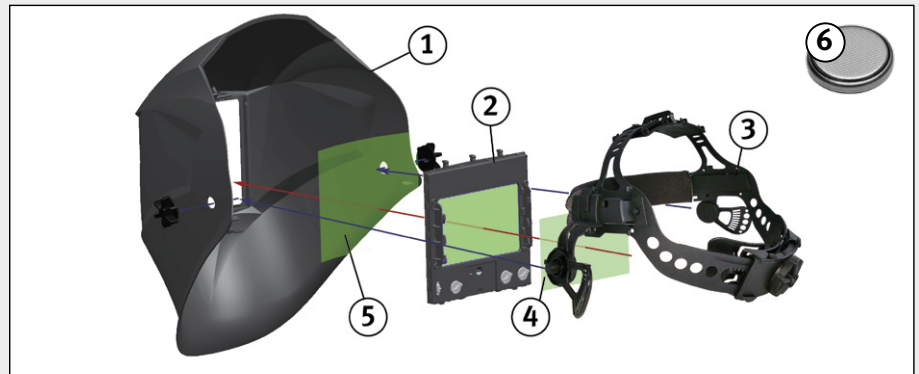


Model	LED light for welding helmet
Art. no.	1662260
Technical data	
Luminous intensity	40 – 80 Lumen
Battery type	AA battery
Dimensions (L x W x H) approx.	122x56x44 mm
Weight approx.	0.07 kg

Welding helmets

VARIOPROTECT XL-W TC

- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Stepless DIN 9-13
- ▶ Response time 0.1 ms
- ▶ Two sensors
- ▶ Switching between grinding and welding mode and infinitely variable adjustment of the dark protection level on the outside of the helmet



VarioProtect[®] solar power
**TRUE COLOUR
 DISPLAY**



1/1/1/1 in the classification

VarioProtect Panorama		VarioProtect XL-W TC	
Art. no.		1651000	
Filter cassette			
Viewing window (W x H)	mm	100 x 49	
Light-dark response time	ms	0.1	
Dark-light brightening time	ms	150 – 800	
Dark protection level		DIN 9-13	
UV/IR protection		Protection level 16 (permanent)	
Light level		Protection level 4	
Solar cells		Yes	
Battery type		2 x Li-Mn battery (CR2032)	
Number of sensors		2	
Standards and approvals			
Class		1/1/1/2	
Welding mask			
Material		Nylon	
Dimensions and weights			
Dimensions approx. (L x W x H)	mm	238 x 175 x 334	
Weight approx.	g	490	

ACCESSORY VarioProtect Panorama S-TC

No.	Designation	PU	Art. no.
1	Welding helmet housing	1	1662157
2	Filter cassette	1	1662158
3	Complete headband	1	1662102
4	Forehead sweatband	1	1662112
5	Inner windscreen	10	1662156
	Outer attachment disc	10	1662155
6	Lithium battery 3V CR24032	1	1662107



VARIOPROTECT XXL-W-2 TC

- ▶ Top marks in the evaluation of optical class, scattering and homogeneity class and angular properties class
- ▶ Easy operation, even with welding gloves
- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Large field of vision
- ▶ Welding mask with rear centre of gravity, very light, head and neck-friendly

Best marks
1/1/1/1 in the classification

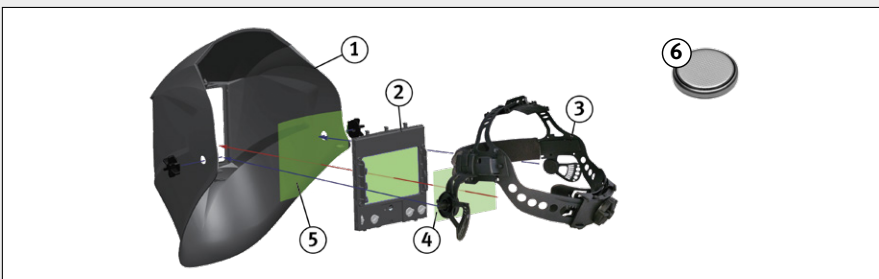


VarioProtect[®]
solar power
TRUE COLOUR DISPLAY



Model	VarioProtect XXL-W-2 TC			
Colour	carbon	red	orange	blue
Art. no.	1654025	1654025-2	1654025-3	1654025-4

Filter cassette	
Viewing window (W x H)	mm 100 x 73
Light-dark response time	ms 0.3
Dark-light brightening time	ms 300 – 900
Dark protection level	DIN 4-13
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 4
Solar cells	Yes
Battery type	Lithium battery (CR2450)
Replaceable battery	Yes
Number of sensors	4
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Polyamide
Dimensions and weights	
Dimensions approx. (L x W x H)	mm 244 x 295 x 323
Weight approx.	g 430



ACCESSORY VarioProtect XXL-W-2 TC			
No.	Designation	PU	Art. no.
5	Outer attachment disc	10	1662075
4	Inner windscreen	10	1662076
3	Complete headband	1	1662032
	Forehead sweatband	1	1662023
2	Filter cassette	1	1662077
	Magnifying lens 2.0	1	1662036
	Centre sweatband (head / top)	1	1662050
	Rear sweatband (neck)	1	1662051
6	Lithium battery 3V CR2450	1	1662034



Welding helmets

VARIOPROTECT PANORAMA W S-TC

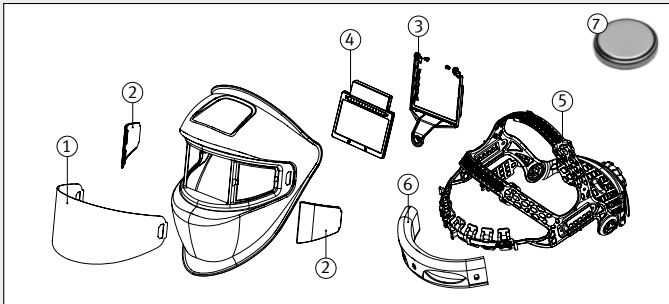
- Suitable for electrode, MIG/MAG and TIG welding and grinding
- Welding in true colour thanks to True Color Cassette in the main viewing window
- Comfortable welding with 180° field of view
- Side windows are automatically darkened as well

VarioProtect^{solar power}
TRUE COLOUR
DISPLAY



Best marks
1/1/1/1 in the
classification

Model	VarioProtect Panorama W TC silver
Art. no.	1654060
Filter cassette	
Viewing window (W x H)	100 x 67 mm
Light-dark response time	0.04 ms
Dark-light brightening time	150 – 800 ms
Dark protection level	DIN 5-9/9-13
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 3
Light level side windows	Protection level 5
Solar cells	Yes
Battery type	3V Lithium battery (CR2032)
Replaceable battery	Yes
Number of sensors	4
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Nylon
Dimensions and weights	
Dimensions (L x W x H) approx.	249 x 298 x 334 mm
Weight approx.	540 g



ACCESSORY VarioProtect Panorama W TC			
No.	Designation	PU	Art. no.
1	Outer attachment disc	10	1662140
	Inner windscreen	10	1662141
2	Inner side window set	2	1662142
3	Holding frame for filter cassette	1	1662143
4	Filter cassette	1	1662144
5	Forehead sweatband	1	1662122
6	Complete headband	1	1662123
7	Battery for VarioProtect CR2032	1	1662107

VARIOPROTECT XXL-W F-TC

- Suitable for electrode, MIG/MAG and TIG welding and grinding
- Large field of vision
- Flip-up system: Cassette is folded up in the helmet, e.g. to be able to look directly through the clear protective disc when grinding
- Top marks in the assessment of optical class, scatter class, homogeneity class, and angle properties class

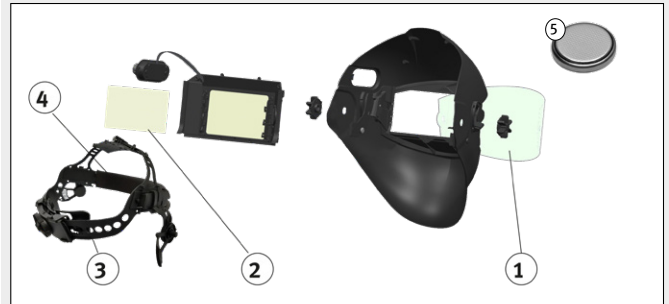
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TRUE COLOUR
DISPLAY



Best marks
1/1/1/1 in the
classification



Model	VarioProtect XXL-W F-TC
Art. no.	1654100
Filter cassette	
Viewing window (W x H)	100 x 65 mm
Light-dark response time	0.3 ms
Dark-light brightening time	
Dark protection level	DIN 4-13
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 4
Solar cells	Yes
Battery type	Lithium battery 3V CR2450
Replaceable battery	Yes
Number of sensors	4
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Polyamide
Dimensions and weights	
Dimensions (L x W x H) approx.	144 x 234 x 334 mm
Weight approx.	558 g

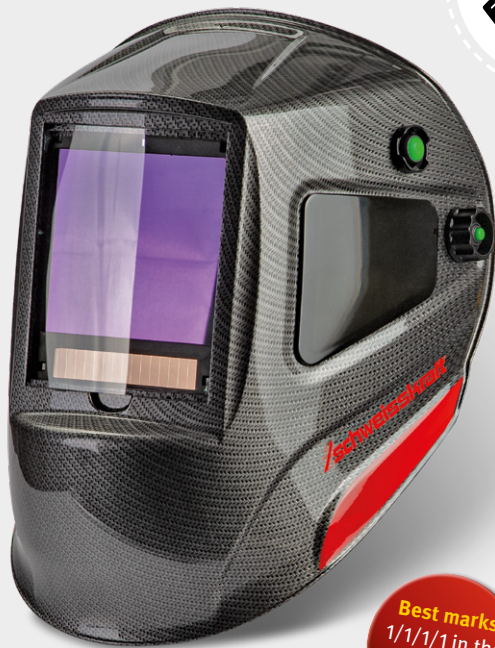


ACCESSORY VarioProtect XXL-W F-TC			
No.	Designation	PU	Art. no.
1	Outer attachment disc	10	1662060
2	Inner windscreen	10	1662061
3	Complete headband	1	1662032
4	Forehead sweatband	1	1662023
5	Lithium battery 3V CR2450	1	1662034
	Sweatband top of head	1	1662050
	Neck sweatband	1	1662051
	Magnifying lens 2.0	1	1662036

VARIOPROTECT 3XL-W DIGITAL TC

- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Extra large viewing window
- ▶ Digital filter cassette for simple and intuitive operation
- ▶ Toggling between grinding and welding modes without removing the helmet
- ▶ Large side windows

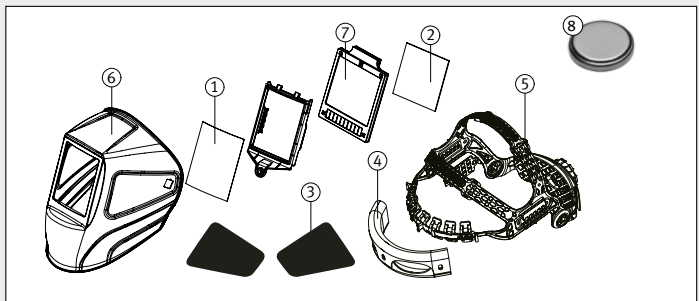
VarioProtect^{solar power}
**TRUE COLOUR
DISPLAY**



Best marks
1/1/1/1 in the
classification



Model	VarioProtect 3XL-W Digital TC
Art. no.	1654030
Filter cassette	
Viewing window (W x H)	100 x 93 mm
Light-dark response time	0.04 ms
Dark-light brightening time	60 – 1200 ms
Dark protection level	DIN 4-8/8-13
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 4
Solar cells	Yes
Battery type	2x 3V Lithium battery (CR2032)
Replaceable battery	Yes
Number of sensors	5
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Nylon
Dimensions and weights	
Dimensions (L x W x H) approx.	252 x 289 x 336 mm
Weight approx.	550 g



ACCESSORY VarioProtect 3XL-W Digital TC			
No.	Designation	PU	Art. no.
1	Outer attachment disc	10	1662100
2	Inner windscreen	10	1662136
3	Side window set	1	1662130
4	Forehead sweatband	1	1662122
5	Complete headband	1	1662123
6	Welding helmet housing	1	1662134
7	Filter cassette	1	1662135
	Magnifying lens 2.0	1	1662106
8	Lithium battery 3V CR2032	1	1662107

*Best marks in the evaluation of the optical class / scattering class / homogeneity class / class of angular properties

VARIOPROTECT PANORAMA-W DIGITAL TC

- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Welding in true colour thanks to True Color Cassette in the main viewing window
- ▶ Large 180° panoramic field of view
- ▶ Side windows are automatically darkened as well
- ▶ Digital filter cassette for simple and intuitive operation

VarioProtect[®] solar power
TRUE COLOUR
DISPLAY



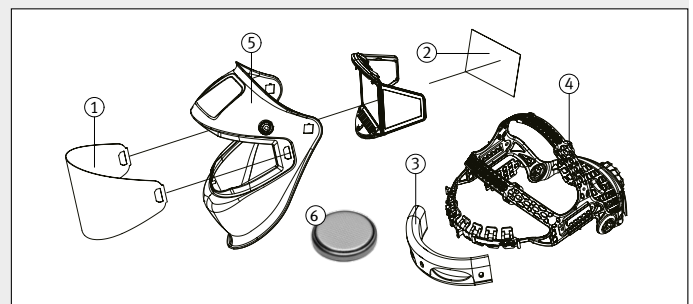
Internal digital adjustment



Best marks
1/1/1/1 in the
classification



Model	VarioProtect PANORAMA-W DIGITAL TC
Art. no.	1654040
Filter cassette	
Viewing window (W x H)	115 x 85 mm
Light-dark response time	0.04 ms
Dark-light brightening time	60 – 1200 ms
Dark protection level	DIN 4-8/8-14
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 4
Solar cells	Yes
Battery type	2x 3V Lithium battery (CR2032)
Replaceable battery	Yes
Number of sensors	5
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Nylon
Dimensions and weights	
Dimensions (L x W x H) approx.	249 x 296 x 334 mm
Weight approx.	570 g



ACCESSORY VarioProtect PANORAMA-W DIGITAL TC			
No.	Designation	PU	Art. no.
1	Outer attachment disc	10	1662120
2	Inner windscreen	10	1662121
3	Forehead sweatband	1	1662122
4	Complete headband	1	1662123
5	Welding helmet housing	1	1662124
6	Lithium battery 3V CR2032	1	1662107

VARIOPROTECT PANORAMA-W-2 TC AIR TH3

- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Welding in true colour thanks to True Color Cassette in the main viewing window
- ▶ Comfortable welding with 180° field of view
- ▶ Easy operation, even with welding gloves
- ▶ Highly efficient air filtration and air supply system provides the welder with clean and filtered air, preventing the inhalation of dangerous and harmful particles and welding vapours
- ▶ Even air distribution in the helmet

Best marks
1/1/1/1 in the
classification



VarioProtect
Panorama-W-2 TC



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Panorama-W-2 TC AIR



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Model	VarioProtect Panorama-W-2 TC AIR TH3
Art. no.	1654115
Technical data	
Viewing window	108x 73 mm
Power supply	Solar cells + replaceable batteries
UV/IR protection	Protection level 16 (permanent)
Dark protection level	DIN 4-13
Light level	Protection level 4
Number of sensors	4
Light-dark response time	0.3
Brightening time	continuously variable
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Polyamide
Blower respiratory protection	
Air flow	Level 1: 180 l/min / stage 2: 220 l/min
Filter type	TH3P R SL
Filter battery life	Level 1: 10 h / Level 2: 9 h
Dimensions and weights	
Dimensions (L x W x H) approx.	180 x 240 x 320 mm



ACCESSORIES Blower breath guard for VarioProtect Panorama-W-2 TC AIR TH3

No.	Designation	PU	Art. no.
1	Filters	1	1662065
2	Pre-filter	1	1662066
3	Spark arrester	1	1662067
4	Li-ion battery	1	1662068
5	Belt	1	1662069
	Air hose	1	1662070
	Charger	1	1662071
6	Filter cover	1	1662072
7	Fabric face shield	1	1662079

MIG/MAG

TIG inverter

Electrode inverter

Laser welding

Plasma cutters

Electrochemical processing

Welding accessories

Welding helmets

VARIOPROTECT XXL-W F-TC AIR TH3 - Automatic welding helmet. Welding in true colours and with clean breathing air

VarioProtect[®] solar power

- ▶ Suitable for electrode, MIG/MAG and TIG welding and grinding
- ▶ Welding in true colours thanks to True Colour cassette
- ▶ Flip-up system: Cassette is folded up in the helmet, e.g. to be able to look directly through the clear protective disc when grinding
- ▶ Highly efficient air filtration and air supply system provides the welder with clean and filtered air, preventing the inhalation of dangerous and harmful particles and welding vapours
- ▶ Two fan speeds selectable
- ▶ Even air distribution in the helmet
- ▶ Li-ION battery for up to 10 hours running time
- ▶ Easy operation, even with welding gloves
- ▶ Large field of vision
- ▶ Top marks in the assessment of optical class, scatter class, homogeneity class, and angle properties class
- ▶ Welding mask with rear centre of gravity, very light, gentle on the head and neck



Best marks
1/1/1/1 in the
classification

TRUE COLOUR DISPLAY



▶ Flip-up system



Scope of delivery:

- Welding helmet
- Air filter system
- Rechargeable Li-ion battery 14.8V / 2.6 Ah
- Battery charger
- Breathing tube with cover 1 m
- Hip belt
- Black carrier bag

Model	VarioProtect XXL-W F-TC AIR TH3
Art. no.	1654105
Filter cassette	
Viewing window (W x H)	100 x 65 mm
Light-dark response time	0.3 ms
Dark protection level	DIN 4-13
UV/IR protection	Protection level 16 (permanent)
Light level	Protection level 4
Solar cells	Yes
Battery type	Lithium battery 3V CR2450
Replaceable battery	Yes
Number of sensors	4
Standards and approvals	
Class	1/1/1/1*
Welding mask	
Material	Polyamide
Blower respiratory protection	
Air flow	Level 1: 180 l/min Level 2: 220 l/min
Filter efficiency	
Filter type	TH3P R SL
Filter battery life	Level 1: 10 h Level 2: 9 h
Battery type	Li-ON 14.8V 2.2Ah
Noise level	<60 dB
Dimensions and weights	
Dimensions (L x W x H) approx.	194 x 254 x 334 mm
Weight approx.	2600 g
Explanation of weight	Welding mask and blower respiratory protection

VARIOPROTECT XXL-W TC AIR TH3 - Welding in true colours and with clean breathing air

VarioProtect®
solar power

- ▶ Top marks in the assessment of optical class, scatter class, homogeneity class, and angle properties class
- ▶ Welding in true colours thanks to cassette
- ▶ 3 fan speeds selectable
- ▶ Air filter system supplies the welder with filtered, clean air and thus prevents the inhalation of dangerous and harmful particles and welding vapours
- ▶ High filter effect: 99.99% = 0.3µm
- ▶ Even air distribution in the fresh air helmet
- ▶ Easy operation, even with welding gloves

- ▶ Integrated Li-ION battery for up to 8 hours running time

Best marks
1/1/1/1 in the
classification



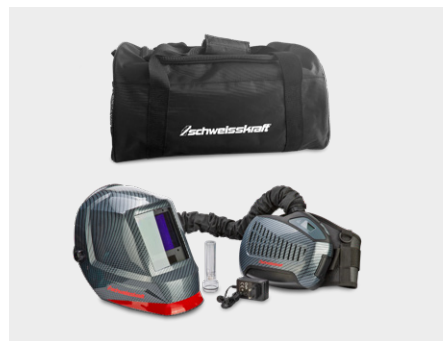
▶ Without fresh air filter system

Model	VarioProtect XXL-W F-TC AIR
Art. no.	1654056

Technical data	VarioProtect XXL-W TC AIR TH3
Art. no.	1654055
Welding mask	
Class	1/1/1/1
Viewing window	83.4 x 100 mm
Material	Nylon
Filter cassette	
Light-dark response time	0.08 ms
Dark-light brightening time	100 – 900 ms
Brightening time, dark-bright regulation	stepless
Dark protection level	5-9/9-13
UV/IR protection	Permanent DIN 15
Light level	Protection level 4
Number of sensors	4
On/Off	Fully automatic
Solar cells	Yes
Battery type	Lithium button battery CR2450 3V
Power supply	Solar cells + replaceable battery
Dimensions (L x W x H) approx.	114 x 133 x 9.5 mm
Blower respiratory protection	
Air flow	Level 1: 170 l/min Level 2: 200 l/min Level 3: 230 l/min
Filter efficiency	99.99% = 0.3µm
Filter type	TH3 P R SL
Filter battery life	Level 1: 8 h Level 2: 6 h Level 3: 4 h
Battery type	Rechargeable Li-ion battery (4400 mAh)
Noise level	< 73 dB
Dimensions and weights	
Total weight approx.	2463
Explanation of weight	Welding mask, filter, belt, battery

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Scope of delivery:

- Welding helmet with air filter system
- Battery charger
- Breathing tube with cover
- Air flow tester
- Padded hip belt with double shoulder strap
- Black carrier bag

Welding helmets

Welding fumes are hazardous to health! Ways to avoid welding fumes:

Welding fume reduction with a welding system that produces less welding fumes due to its arc

► Approximately 5.2 g of welding fumes are produced by one 1 kg roll of SG wire, which are very hazardous to health.

VarioProtect XXL-W TC AIR

The most effective solution: The welding operator receives filtered air directly into the helmet.

► To prevent illness, the VarioProtect XXL-W TC AIR TH3 is a safe alternative for worry-free welding work.



Welding fumes produced when welding 1kg of SG wire

Filter devices or welding fume extraction systems

For extracting welding fumes directly at the welding station

► The toxic welding fumes pose an increased risk of lung cancer for the welder and those in the immediate vicinity. Inhalation should be avoided at all costs.



► Welding in true colours thanks to True Colour cassette

ACCESSORY VarioProtect XXL-W TC AIR

No.	Designation	PU	Art. no.
1	Outer attachment disc	1	1662200
2	Inner windscreen	1	1662201
3	Headband complete with air tube	1	1662255
4	Forehead sweatband	1	1662203
5	Replacement filter cassette	1	1662204
6	Welding helmet housing	1	1662256
7	Filter cover	1	1662250
8	TH3 filter	1	1662251
9	Pre-filter	1	1662208
10	Spark arrester	1	1662209
11	Air filter system	1	1662252
12	Li- ION battery	1	1662211

ACCESSORIES

No.	Designation	PU	Art. no.
13	Air hose	1	1662253
14	Belt harness	1	1662213
15	Charger	1	1662214
16	Air flow tester	1	1662215
17	Filter cassette holder frame	1	1662216
18	Lithium battery 3V CR2450	1	1662007
19	Clamping nut	1	1662219
20	Clamping screw set	1	1662220
23	Mounting frame of the filter cassette	1	1662221
Accessories			
21	Magnifying lens 2.0	1	1662217
22	Fabric protection	1	1662254
24	Spacer disc	1	1662257
25	Angle adjustment	1	1662258

Welding fumes are hazardous to health! Ways to avoid welding fumes:

Welding fume reduction with a welding system that produces less welding fumes due to its arc

- ▶ Approximately 5.2 g of welding fumes are produced by one 1 kg roll of SG wire, which are very hazardous to health.

VarioProtect XXL-W F-TC AIR

The most effective solution: The welding operator receives filtered air directly into the helmet.

- ▶ To prevent illness, the VarioProtect XXL-W TC AIR is a safe alternative for worry-free welding work.



Welding fumes produced when welding 1kg of SG wire

Filter devices or welding fume extraction systems

For extracting welding fumes directly at the welding station

- ▶ The toxic welding fumes pose an increased risk of lung cancer for the welder and those in the immediate vicinity. Inhalation should be avoided at all costs.



- ▶ Maximum wearing comfort thanks to easily adjustable headband
- ▶ Interchangeable headband and sweatband



- ▶ Large viewing window 100 x 65 mm
- ▶ Welding in true colours thanks to True Colour cassette
- ▶ Stepless adjustment of the dark protection level and sensitivity
- ▶ Setting the brightening time
- ▶ Toggling between grinding and welding mode



- ▶ The dark protection level and sensitivity can be adjusted continuously and easily from outside the helmet, even when wearing welding gloves.
- ▶ Toggling between grinding and welding modes without removing the helmet



- ▶ Fabric protection protects against welding fumes and keeps fresh air in the helmet at the same time



ACCESSORY VarioProtect XXL-W F-TC AIR

No.	Designation	PU	Art. no.
1	Outer attachment disc	1	1662060
2	Inner windscreen	1	1662061
3	Complete headband	1	1662032
4	Forehead sweatband	1	1662023
5	Hepa filter TH3P R SL	1	1662065
6	Pre-filter	1	1662066
7	Spark arrester	1	1662067
8	Li-ion battery	1	1662068

ACCESSORY VarioProtect XXL-W F-TC AIR

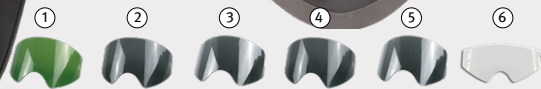
No.	Designation	PU	Art. no.
9	Belt	1	1662069
10	Air hose	1	1662070
11	Charger	1	1662071
12	Magnifying lens 2.0	1	1662036
13	Lithium battery 3V CR2450	1	1662034
14	Filter cover	1	1662072
	Filter cassette	1	1662073
	Sweatband top of head	1	1662050
	Neck sweatband	1	1662051

Welding helmets

VARIOPROTECT GRIND - Grinding helmet

- ▶ Ideal for grinding applications, metalworking and woodworking
- ▶ Unrestricted and clear view
- ▶ Maximum wearing comfort thanks to optimum fit and easily adjustable headband
- ▶ Light weight

Model		VarioProtect GRIND
Art. no.		1654200
Mask		
Lens power		1.0
Material		Nylon
Working temperature	°C	-5 – +55
Storage temperature	°C	-10 – +55
Standards		CE, ANSI, CSA, AS/NZS
Dimensions (L x W x H) approx.	mm	350 x 250 x 190
Weight approx.	g	385



No.	ACCESSORY	Art. no.
1	Visor DIN2	1662242
2	Visor DIN3	1662243
3	Visor DIN4	1662244
4	Folding visor DIN5	1662245
5	Folding visor DIN8	1662246
	Folding device	1662241
6	Protective film for viewing window	1662247

VARIOPROTECT GRIND-AIR TH3 - Face and respiratory protection against chips and dust generated during cutting and grinding

- ▶ Ideal for grinding applications, metalworking and woodworking
- ▶ Unrestricted and clear view
- ▶ Maximum wearing comfort thanks to optimum fit and easily adjustable headband
- ▶ Air filter system TH 3 for continuous supply of filtered, clean air without inhaling dangerous and harmful particles
- ▶ High filter effect: 99.996% = 0.3µm
- ▶ Three fan speeds selectable
- ▶ Even air distribution in the fresh air helmet
- ▶ Li-ION battery for up to 8 hours running time
- ▶ Light weight

VarioProtect®

Grinding dust is hazardous to health!

VarioProtect GRIND AIR
The most effective solution:
The user receives filtered air directly into the helmet.

The VarioProtect GRIND AIR is a safe alternative that will help you to prevent illness and enjoy carefree welding work.



Fabric face shield

Art. no.	€ plus VAT
1662079	19.90



Technical data	VarioProtect GRIND AIR TH3
Art. no.	1654205
Mask	
Material	Nylon
Lens power	1 mm
Working temperature	-55 – +55 °C
Blower respiratory protection	
Air flow	Level 1: 170 l/min Level 2: 200 l/min Level 3: 230 l/min
Filter efficiency	99,996% (0.3µm)
Filter type	TH3 P R SL
Filter battery life	Level 1: 8 h Level 2: 6 h Level 3: 4 h
Battery type	Rechargeable Li-ion battery (4400 mAh)
Battery weight	350 g
Sound pressure level	< 73 dB(A)
Standards	CE, ANSI, CSA, AS/NZS
Dimensions (L x W x H) approx.	460 x 250 x 250 mm
Weight approx.	735 g
Explanation of weight	Welding mask, filter, belt, battery

SCOPE OF DELIVERY:

- Welding helmet with air filter system
- TH3 air filter system
- Rechargeable Li-ion battery (4400 mAh)
- Battery charger
- Breathing tube and cover (1 m)
- Flow meter
- Padded hip belt and double shoulder strap
- Black carrier bag



No.	ACCESSORY	Art. no.
1	Visor DIN2	1662242
2	Visor DIN3	1662243
3	Visor DIN4	1662244
4	Folding visor DIN5	1662245
5	Folding visor DIN8	1662246
	Folding device	1662241
6	Protective film for viewing window	1662247

VARIOPROTECT GRIND AIR

with connection for fresh air filter system

- ▶ Headband with connection for Schweisskraft fresh air filter systems of the articles 1654205, 1654050 and 1654055

Model	VarioProtect GRIND AIR
Art. no.	1654206
Mask	
Lens power	1.0
Material	Nylon
Standards and approvals	
Standards	CE, ANSI, CSA, AS/NZS
Dimensions and weights	
Dimensions (L x W x H) approx.	460 x 250 x 250 mm
Weight approx.	550 g



Headband with connection for Schweisskraft fresh air filter systems



▶ For Art. no.1654050



▶ For Art. no.1654055



▶ For Art. no.1654205



- ▶ Maximum wearing comfort thanks to easily adjustable headband
- ▶ Interchangeable headband and sweatband



- ▶ Large viewing window with unrestricted and clear view



- ▶ LCD for filter, battery status and air flow



- ▶ Fabric protection protects against welding fumes and keeps fresh air in the helmet at the same time



No.	ACCESSORY	Art. no.
1	Fabric face shield	1662230
2	Air filter system	1662231
3	Transparent pane (requires1662239)	1662232
4	Pane mounting	1662239
5	Seal for transparent pane	1662233
6	Complete headband	1662237
7	Forehead sweatband	1662238
8	Filter cover	1662206
9	TH3 filter	1662251
10	Pre-filter	1662208
11	Spark arrester	1662209
12	Li-ion battery	1662211

No.	ACCESSORY	Art. no.
13	Air hose	1662212
14	Belt harness	1662213
15	Charger	1662214
16	Air flow tester	1662215
	Attachment to safety helmet	1662240
17	Visor DIN2	1662242
18	Visor DIN3	1662243
19	Visor DIN4	1662244
20	Folding visor DIN5	1662245
21	Folding visor DIN8	1662246
	Folding device	1662241
22	Protective film for viewing window	1662247

Welding accessories



HAND PROTECTION SHIELD D

Art. no.

Hand protection shield D

1600610

- ▶ made of diamond fibre, straight version
- ▶ for glass size 90 x 110 without safety glass



HAND PROTECTION SHIELD G

1600620

- ▶ made of fibreglass, cranked design
- ▶ for glass size 90 x 110 without safety glass



CLEAR-VIEW HAND SHIELD G

1600600

- ▶ made of fibreglass, cranked design
- ▶ with insulated mechanism for glass size 90 x 110 without protective glasses



HEAD PROTECTION SHIELD G

1600710

- ▶ Fibreglass with headband
- ▶ for glass size 90 x 110 without safety glass



HEADBAND

Art. no.

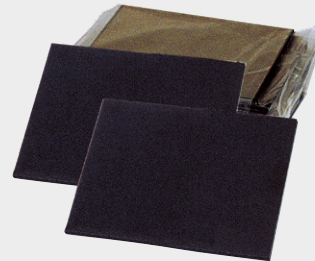
with ratchet adjustment

1600711

- ▶ for head protection shield G
- ▶ steplessly adjustable
- ▶ with forehead sweatband

for head protection shield P

1600721



WELDER'S PROTECTIVE GLASSES

Art. no.

90 x 110 according to DIN

9 A DIN

1601009

10 A DIN

1601010

11 A DIN

1601011

12 A DIN

1601012

13 A DIN

1601013

mirrored 90 x 110 according to DIN

9 A DIN mirrored

1601109

10 A DIN mirrored

1601110

11 A DIN mirrored

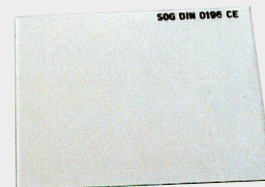
1601111

12 A DIN mirrored

1601112

13 A DIN mirrored

1601113



COVER GLASS (CLEAR)

Art. no.

90 x 110

1601300

40 x 110

1601301

1000 Hourglass 90 x 110

Plastic CR 39

1601310

MIG/MAG WELDER'S GLOVE BASIC

Particularly suitable for MIG/MAG

- ▶ Very soft and supple premium cow split leather
- ▶ Fleece lining for high comfort
- ▶ Long cuff to protect against sweat beads



- ▶ Thanks to the seamless index finger, gripping is easier and dexterity is improved.

Model	Size L	Size XL
Art. no.	1616110L	1616110XL
Delivery quantity	1 pack = 10 pair	

Standards and approvals		
EN 407:2004, Thermal risks	413X4X	
EN 388:2016, Mechanical risks	3144X	
DIN EN 12477:2001	Version A	

Dimensions		
Hand circumference, approx.	240 mm	270 mm
Length approx.	355 mm	360 mm

TIG WELDER'S GLOVE BASIC

Ideal for TIG welding with high dexterity

- ▶ Goatskin leather palm with split leather cuff
- ▶ Back of the hand made from cow split leather
- ▶ Long cuff to protect against sweat beads



Model	Size M	Size L	Size XL
Art. no.	1616120M	1616120L	1616120XL
Delivery quantity	1 pack = 10 pair		

Standards and approvals			
EN 407:2004, Thermal risks	413X4X		
EN 388:2016, Mechanical risks	2111X		
DIN EN 12477:2001	Version B		

Dimensions			
Hand circumference, approx.	220 mm	240 mm	270 mm
Length approx.	328 mm	330 mm	340 mm

MIG/MAG WELDER'S GLOVE PRO

Particularly suitable for MIG/MAG with double-layer palm

- ▶ Very soft and supple premium cow split leather
- ▶ Fleece lining for high comfort
- ▶ Long cuff to protect against sweat beads



- ▶ Thanks to the seamless index finger, gripping is easier and dexterity is improved.



- ▶ Palm made from double-layer cowhide leather



Model	Size L	Size XL
Art. no.	1616111L	1616111XL
Delivery quantity	1 pack = 10 pair	

Standards and approvals		
EN 407:2004, Thermal risks	413X4X	
EN 388:2016, Mechanical risks	3144X	
DIN EN 12477:2001	Version A	

Dimensions		
Hand circumference, approx.	240 mm	270 mm
Length approx.	355 mm	360 mm

TIG WELDER'S GLOVE PRO

Ideal for TIG welding with high dexterity, palm with foam lining

- ▶ Goatskin palm and back with goat split leather cuff
- ▶ Long cuff to protect against sweat beading
- ▶ Palm with foam lining for increased comfort



- ▶ Thanks to the seamless index finger, gripping is easier and dexterity is improved.

Model	Size M	Size L	Size XL
Art. no.	1616121M	1616121L	1616121XL
Delivery quantity	1 pack = 10 pair		

Standards and approvals			
EN 407:2004, Thermal risks	413X4X		
EN 388:2016, Mechanical risks	2111X		
DIN EN 12477:2001	Version B		

Dimensions			
Hand circumference, approx.	220 mm	240 mm	270 mm
Length approx.	325 mm	330 mm	338 mm

Welding accessories

WELDING JACKET with fabric back -

Pleasant wearing comfort and high level of safety when welding

- ▶ Front and sleeves made of heat- and fire-resistant split cow leather
- ▶ Leather splash guard on the front strip
- ▶ The back is made of flame-retardant fabric for a cooler feel.



Model	Size L	Size XL
Art. no.	1616200L	1616200XL
Delivery quantity	1 pcs.	

LEATHER WRIST GUARDS 48 cm -

Very durable, made of heat and fire-resistant leather

- ▶ Velcro fastener on the upper arm and wrist



Model	Leather wrist guard 48 cm
Art. no.	1616400
Delivery quantity	1 pairs

Technical data	
Length	400 mm

WELDING APRON 100 x 60 cm –

Individually adjustable welding apron made of split leather

- ▶ Front and sleeves made of heat- and fire-resistant split cow leather
- ▶ Leather splash guard on the front strip
- ▶ The back is made of flame-retardant fabric for a cooler feel.



Model	Welding apron 100 x 60 cm
Art. no.	1616300
Delivery quantity	1 pcs.

Dimensions	
Length approx.	1070 mm
Width approx.	630 mm

GAITERS 300 -

Leg and foot protection made of heat and fire-resistant leather

- ▶ Stress points riveted or reinforced with two layers of leather



Model	Gaiters 300
Art. no.	1616500
Delivery quantity	1 pairs

Technical data	
Shaft height	300 mm



FULL-VISION GOGGLES	Art. no.	PU
colourless	1600100	10
<ul style="list-style-type: none"> ▶ Made of flexible, crystal-clear plastic ▶ Ventilation opening covered with sieve ▶ Suitable for acid, vapours, dust and sanding ▶ according to EN 166 B 0196 CE 		



NYLON SAFETY GOGGLES	Art. no.	PU
adjustable, colourless, splinter-free	1600500	10
adjustable, 5 A DIN	1600505	10
<ul style="list-style-type: none"> ▶ Bracket adjustable in length and inclination ▶ Lightweight and comfortable design ▶ Mould pane 66 x 56 mm curved 		



WELDER'S GOGGLES	Art. no.	PU
colourless, splinter-free	1600200	10
5 A DIN	1600205	10
<ul style="list-style-type: none"> ▶ for DIN jars 50 mm diameter 		



NYLON SAFETY GOGGLES	Art. no.	PU
colourless, splinter-free	1600400	10
5 A DIN	1600465	10
<ul style="list-style-type: none"> ▶ Simple pane change with knurled screw ▶ Soft frame ▶ for DIN jars 50 mm diameter 		



WELDER'S GOGGLES	Art. no.	PU
Can be folded up	1600305	10
<ul style="list-style-type: none"> ▶ soft and stable PVC body ▶ Also suitable for spectacle wearers ▶ DIN glasses can be folded up, colourless glasses underneath ▶ for DIN jars 50 mm diameter, colourless, shatterproof and 5 A DIN ▶ according to EN 166 3 4 F 0196 CE 		

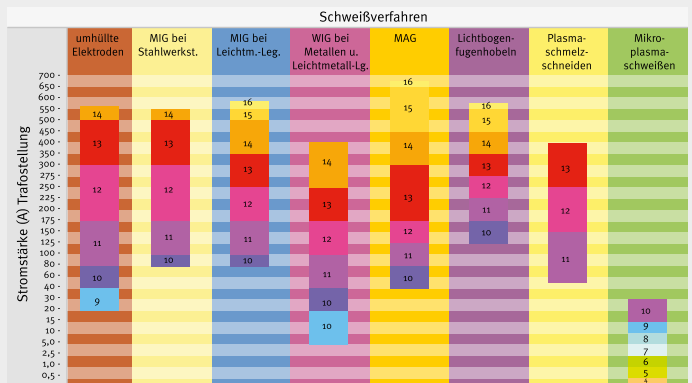


DIN GLASSES	Art. no.	PU
5 A DIN	1600805	10
round, 50 mm diameter		
colourless, splinter-free	1600800	10
round, 50 mm diameter		

Protective welding glass and its use in gas welding 3-8 FW 1 DIN

How to read the table correctly!

Determine the current in amperes (A) at the transformer for your selected welding process. The current intensity can be read off the vertical number line in the diagram. Now move horizontally from the read amperes to the column for the welding process used. Now you can easily read off the protection level to be used (number in the respective rectangle).



Protection level Flame cutting (L.-oxygen/hour)

3 FW 1 DIN	Light flame cutting work
4 FW 1 DIN	< 900 l
5 FW 1 DIN	900 - 2000 l
6 FW 1 DIN	2000 - 4000 l
7 FW 1 DIN	4000 - 8000 l
8 FW 1 DIN	> 8000 l

Protection level Flame cutting (L.-oxygen/hour)

3 FW 1 DIN	Light flame cutting work
4 FW 1 DIN	< 900 l
5 FW 1 DIN	900 - 2000 l
6 FW 1 DIN	2000 - 4000 l
7 FW 1 DIN	4000 - 8000 l
8 FW 1 DIN	> 8000 l



LED LIGHT	Art. no.
for welding helmet	1662260
<ul style="list-style-type: none"> ▶ Fits: Art. no. 1651000, 1654025, 1654025-2, 1654025-3, 1654025-4, 1651005, 1654030 	

TransEco protective barrier

Protective wall via 2 stands adjustable and mobile

- ▶ Can be combined and extended as required with many advantages:
- ▶ Protection against radiation during arc welding
- ▶ Protection against dirt, moisture, draughts and disruptive sunlight
- ▶ Visual protection during welding and grinding
- ▶ Simple assembly, tubular steel frame, powder-coated
- ▶ Covering made of TransTec films in proven quality
- ▶ Stable as individual walls, cubicles or complete workplace partitions
- ▶ Space-saving packaging (dispatch with parcel service possible)
- ▶ Certified according to DIN EN 1598, hazard factor < 1

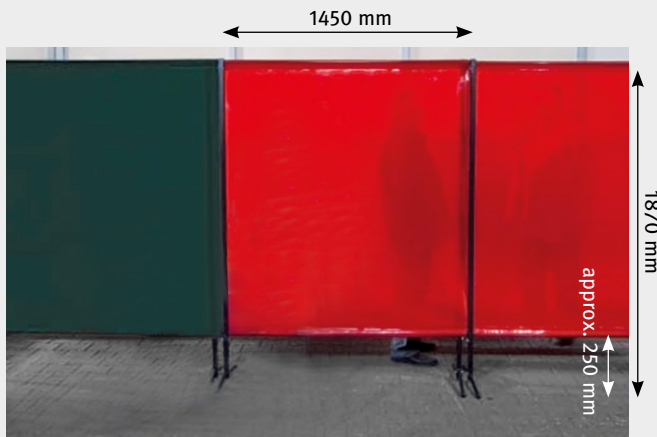


Illustration shows several crash barriers lined up next to each other

TRANSECO PROTECTIVE BARRIER	Weight approx.	Art. no.
1450 V red-orange 1450 x 1870 mm	9.3 kg	1611450
1450 V dark green dull 1450 x 1870 mm	9.3 kg	1611451
2050 V red-orange 2050 x 1870 mm	10.5 kg	1612000
2050 V dark green dull 2050 x 1870 mm	10.5 kg	1612001

Supplied as a kit with assembly instructions for self-assembly (applies to TransEco and TransFlex)

TransFlex protective barrier

Safety barrier mobile and portable

- ▶ Flexibly adaptable to changing welding situations
- ▶ Inexpensive protection as a single wall
- ▶ Also ideal as a combination of several walls
- ▶ Easy to install
- ▶ Ground clearance 300 mm
- ▶ Certified in accordance with DIN EN 1598, hazard factor < 1
- ▶ The TransFlex is based on a robust welded frame made of square and 1-inch round tubes, which are fully powder-coated.
- ▶ TransFlex base units are mobile and 2100 mm wide
- ▶ 2 arms as cantilevers 800 mm wide
- ▶ 3 curtains in 2 versions: red-orange or dark green dull, each 1300 mm wide x 1600 mm high, without hem
- ▶ 4 roller Ø 100 mm, 2 with brakes



Illustration shows scope of delivery in assembled condition

TRANSFLEX PROTECTIVE BARRIER WITH CURTAIN	Weight approx.	Art. no.
unhemmed, red-orange 3700 x 1950 mm	35 kg	1613000
unhemmed, dark green dull, 3700 x 1950 mm	35 kg	1613001

Application example:



Two TransFlex safety barriers combined to form a closed cabin. Outer walls and cantilevers can be swivelled



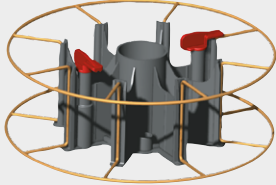
BASKET COIL ADAPTER

KA 1

▶ pluggable

Art. no.

1110001



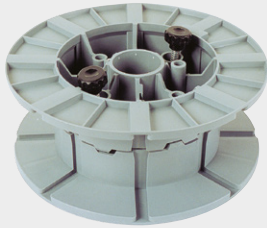
BASKET COIL ADAPTER

KA 2

▶ with quick-release fastener

Art. no.

1110005



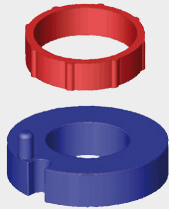
BASKET COIL ADAPTER

KA 3

▶ two-part

Art. no.

1110006



CENTRING ADAPTER

for D 200 coils

▶ two-part

Art. no.

1110007



GAS FLOW METER

for CO² + argon

Art. no.

1251100



MIG/MAG SPECIAL TONG

Size 1, for 12-15 mm nozzles

Size 2, for 15-18 mm nozzles

▶ Fast and accurate cutting of the welding rod
▶ Time-saving cleaning of the shielding gas nozzle, removal of the shielding gas nozzle, loosening and tightening of the contact tip

Art. no.

1091000

1092000

ACCESSORIES FOR ARGON/CO₂ PRESSURE REDUCER

(Art. no. 1700054)

with content and flow manometer

Max. pressure: 200 bar

Max. flow rate: 15 l/min

Connection: W 21.8 x 1/14"-1/4"

For gases: Argon, mixture Ar/CO₂, CO₂

According to standard: EN 2503, EN 13918



1700451

1700452

1700054

Designation

Small welding force, Ø 50 mm

Contents pressure gauge Ø 50 mm 0-315 bar

Flow manometer Ø 50 mm 0-15 l/min

Art. no.

1700054

1700451

1700452

ACCESSORIES FOR ARGON/CO₂ PRESSURE REDUCER

(Art. no. 1700050)

with content and flow manometer

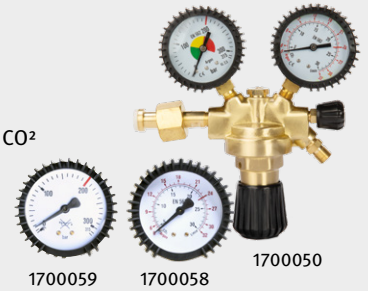
Max. pressure: 200 bar

Max. flow rate: 30 l/min

Connection: W 21.8 x 1/14"-1/4"

For gases: Argon, mixture Ar/CO₂, CO₂

According to standard: EN 2503, EN 13918



1700059

1700058

1700050

Designation

Large welding force, Ø 63 mm

Contents pressure gauge Ø 63 mm 0-315 bar

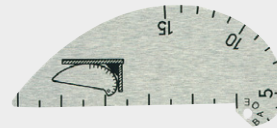
Flow manometer Ø 63 mm 0-30 l/min

Art. no.

1700050

1700059

1700058



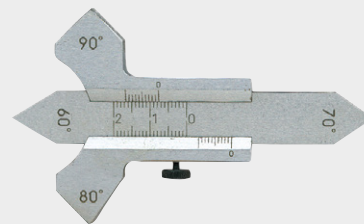
WELDING SEAM GAUGE

SL 1

▶ made of aluminium

Art. no.

1252201



WELDING SEAM GAUGE

SL 2

▶ Precision version for measuring flat weld seams and weld seams in corners 60°/80°/90°

Art. no.

1252202



NOZZLE SPRAY

400 ml (VE 12)

▶ anhydrous
▶ Silicone-free, odourless and CFC-free
▶ Plant-based release agent

Art. no.

1096401

Welding accessories



PRATICA

	Art. no.
Pratica 1 (200 A- 35% duty cycle/electrodes max. 3.2 mm)	1240123
Pratica 2 (350 A- 35% duty cycle/electrodes max. 5 mm)	1240143
Pratica 3 (520 A- 35% duty cycle/electrodes max. 8 mm)	1240163

► Insulated in accordance with EN 60974-11 with break-proof insulating shells made of hard glass fibre for Allen cable lug connection

INSULATING SHELLS FOR ELECTRODE HOLDERS

	Art. no.	€ plus VAT
for Pratica 1	1240124	1.05
for Pratica 2	1240144	1.39
for Pratica 3	1240164	2.50



ELECTRODE HOLDER

	Art. no.
Electrode holder Superior 4	1240040

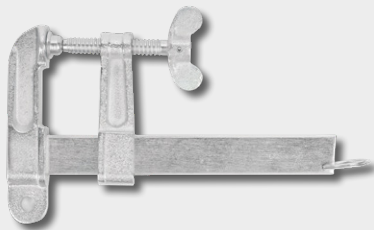
► 250 A - 35% duty cycle/200 A - 60% duty cycle/electrodes 2.4-4 mm/
Cable 25-35 mm²/480 gr. Handle and head fire and heat resistant

► Brass body with insulated compression spring

► Clamping the electrode by turning the electrode holder head

► with cable lug connection

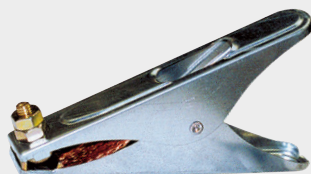
► in accordance with EN 60974-11 and IEC 974-11, B200 TÜV CE



POLE WELDING CLAMP

	Art. no.
made of steel 400 A	1250140
made of steel 600 A	1250160

► Malleable cast iron, span 150 mm, throat depth 80 mm, with cable relief



EARTH CLAMPS

	Art. no.
200 A, with copper braiding, 180 mm, M6	1240220
400 A, w. stranded copper wire, pole connect. Brass strap, 200 mm, M10	1240240
Earth clamp 500A	1240260



NEVADA EARTH CLAMPS ACCORDING TO BS 638-5 CE

	Art. no.
Nevada 3 (300 A - 60%/400 A - 35%)	1240235
Nevada 5 (400 A - 60%/500 A - 35%)	1240265



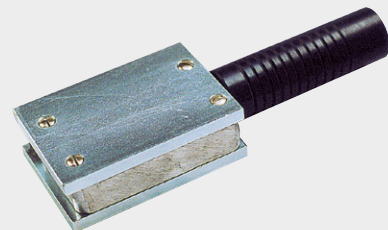
COMPRESSION CABLE LUGS

	Art. no.	PU
16 mm ²	1250416	10
25 mm ²	1250425	10
35 mm ²	1250435	10
50 mm ²	1250450	10
70 mm ²	1250470	10



SCREW CABLE LUGS

	Art. no.	PU
CU 25 mm ²	1250525	10
CU 35 mm ²	1250535	10
CU 50 mm ²	1250550	10
CU 70 mm ²	1250570	10



MAGNETIC POLE CLAMP

	Art. no.
MPK 400A	1240340
MPK 600A	1240360

► Very good magnetic adhesion to pipes



SLAG HAMMER

	Art. no.
Slag hammer	1250300

► approx. 440 g

► Oval tube Ø 28 mm

► All steel



WELDING SITE EQUIPMENT	Art. no.
SPA 16 mm ² /KS 10-25 mm ² / Pratica 1/ Earth clamp 200 A	1240400
SPA 25 mm ² /KS 35-50 mm ² / Pratica 1/ Earth clamp 200 A	1240445
SPA 35 mm ² /KS 35-50 mm ² / Pratica 2/ Earth clamp 600 A	1240450

- ▶ Welding cable PVC 5 m with electrode holder and welding cable plug
- ▶ PVC ground cable 3 m with earth clamp and welding cable plug
- ▶ Slag hammer
- ▶ Wire brush, 2-row
- ▶ Polypropylene hand protection shield (CE)
- ▶ Welding glass DIN 9
- ▶ Cover glass 90 x 110 millimetres
- ▶ Gloves 5-finger



WELDING CABLE 5 m prefabricated	Art. no.
25 mm ² /10-25mm ² /9 mm spigot/M8	1250227
35 mm ² /16-35mm ² /13 mm spigot /M10	1250236
50 mm ² /35-50mm ² /13 mm spigot /M10	1250252

- ▶ according to H01 N2 D VDE 0250
- ▶ 5 m complete with welding cable plug and compression cable lug
- ▶ for attaching an earth clamp or electrode holder



WELDING CABLE	Art. no.
16 mm ² per metre	1250316
25 mm ² per metre	1250325
35 mm ² per metre	1250335
50 mm ² per metre	1250350
70 mm ² per metre	1250370

- ▶ according to H01 N2 D VDE 0250, part 6
- ▶ High flexibility
- ▶ Resistance to cold and heat, flame retardant



GROUND CABLE 4m complete with earth clamp	Art. no.
16 mm ² , KS 25/9 mm, clamp 200A	1250215
25 mm ² , KS 25/9 mm, clamp 200A	1250224
16mm ² , KS50/13mm, clamp 200A	1250216
25mm ² , KS50/13mm, clamp 200A	1250225
35mm ² , KS50/13mm, clamp 400A	1250235
50mm ² , KS50/13mm, clamp 600A	1250250
70mm ² , KS70/13mm, clamp 600A	1250270



WELDING CABLE 4 m complete with electrode holder	Art. no.
16mm ² , KS25/9mm, electrode holder 260A	1250353
25mm ² , KS25/9mm, electrode holder 260A	1250354
16mm ² , KS50/13mm, electrode holder 260A	1250360
25mm ² , KS50/13mm, electrode holder 260A	1250361
35mm ² , KS50/13mm, electrode holder 400A	1250362
50mm ² , KS50/13mm, electrode holder 600A	1250363
70mm ² , KS50/13mm, electrode holder 600A	1250364



WELDING CABLE COUPLING PLUG	Art. no.	PU
KS 25, 10-25 mm ²	1250635	10
KS 50, 35-50 mm ²	1250650	10



WELDING CABLE COUPLING SOCKET	Art. no.	PU
KB 25, 10-25 mm ²	1250735	10
KB 50, 35-50 mm ²	1250750	10



WELDING CABLE INSTALLATION SOCKET	Art. no.	PU
EB 25, 10-25 mm ²	1250836	10
EB 50, 35-50 mm ²	1250851	10