schweißkraft®
Schweißtechnik

WELDER'S HELMETS
WELDING APRON
WELDING ACCESSORIES



VarioProtect automatic welding filter –
Full vision with effective protection for your eyes

solar power VarioProtect®

- Effective protection of the eyes through automatic darkening after a very short reaction time as soon as the arc is ignited
- Electronically controlled liquid crystal elements act as filters that detect the welding arc and immediately react by displaying a dark or light image
- UV/IR filter keeps out hazardous radiation
- With some models, the protection level is continuously adjustable on the outside of the helmet, without having to remove the helmet to adjust the level
- Continuous adjustment of sensitivity
- Transition response time from dark to light adjustable
- Automatic dimming of the weld filter can be disabled, also suitable for grinding in grinding mode
- No need to push a button thanks to automatic switch-on/off
- Solar cell operation

GREEN DISPLAY

The standard display: protection and a clear view
- Reliable protection for the eyes





TRUE COLOR DISPLAY

The next generation display: TrueColor
- True Color cassette for improved control: welding in real colours and with more contrast improves the way the welder perceives surfaces and coloured elements in the work environment





TRUE COLOR DISPLAY + GREEN DISPLAY — PANORAMA FIELD OF VISION — SIDE WINDOW

The next generation display with a wide field of view: TrueColor and Panorama
- True Color cassette in the main view window for improved control: welding in real colours and with more contrast improves the way the welder perceives surfaces and coloured elements in the work environment
- Side windows with green displays
- Pleasant welding with 180° field of vision due to side windows on the right and left





TRUE COLOR DISPLAY — PANORAMA FIELD OF VISION

The next generation display with a wide field of view: TrueColor and Panorama
- True Color cassette in the main view window for improved control: welding in real colours and with more contrast improves the way the welder perceives surfaces and coloured elements in the work environment
- Pleasant welding with 180° field of vision due to side windows on the right and left





Head dummy for grinding & welding helmets

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

Art. no.	Height	€ plus VAT.
8150240	400 mm	**15.00**



Automatic welding helmets

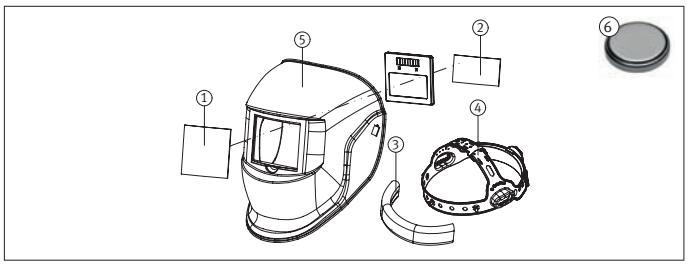
VARIOPROTECT M-W

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Continuously variable DIN 9-13
- Response time 0.5 ms
- Two sensors

VarioProtect solar power
GREEN DISPLAY



Model		VarioProtect M-W
Art. no.		1653990
Filter cassette		
View window width x height	mm	91 x 42
Response time light/dark	ms	0.5
Dark to light transition time	ms	150 - 800
Dark protection level		DIN 9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		1x 3V Lithium battery (CR2032)
Battery replaceable		Yes
Number of sensors		2
Standards and certifications		
Class*		1/1/1/2
Welders' visor		
Material		Polypropylene
Dimensions and weight		
Dimensions (L x W x H)	mm	244 x 295 x 323
Weight approx.	g	430



Spare parts VarioProtect M-W

No.	Designation	PQ	Art. no.	
1	Outer lens	10	1662110	**6.90**
2	Inner lens	10	1662111	**4.90**
3	Sweat band for forehead	1	1662112	**0.90**
4	Headband complete	1	1662113	**7.50**
5	Welder's helmet casing	1	1662114	**7.50**
6	Battery for VarioProtect CR2032	1	1662107	

VARIOPROTECT XL-W TC

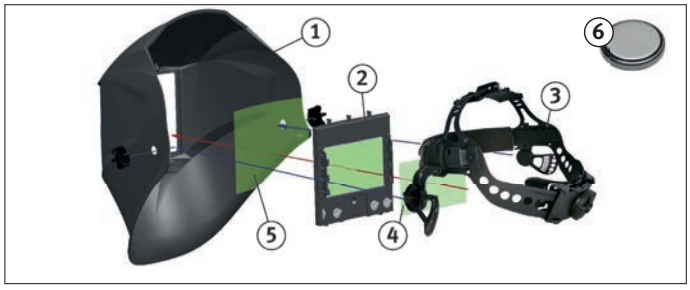
New

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

VarioProtect solar power
TRUE COLOR DISPLAY



VarioProtect Panorama		VarioProtect XL-W TC
Art. no.		1651000
Filter cassette		
View window width x height	mm	100 x 49
Response time light/dark	ms	0.1
Dark to light transition time	ms	150 – 800
Dark protection level		DIN 9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		2 x Li-Mn battery (CR2032)
Battery replaceable		Yes
Number of sensors		2
Standards and certifications		
Class*		1/1/1/2
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	238 x 175 x 334
Weight approx.	g	490



Accessories VarioProtect Panorama S-TC

No.	Designation	PQ	Art. no.
1	Welder's helmet casing	1	1662157
2	Filter cassette	1	1662158
3	Headband complete	1	1662102
4	Sweat band for forehead	1	1662112
5	Inner lens	10	1662156
	Outer lens	10	1662155
6	Lithium battery 3V CR24032	1	1662107

***Top marks** in the optical class / scatter class / homogeneity class / angle property class evaluation

VARIOPROTECT XXL W

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Top marks in the optical class, scatter class, homogeneity class, and angle property class rating
- Large field of vision
- Continuously variable DIN 4-8 and DIN 9-13
- Response time 0.3 ms
- Four sensors

VarioProtect solar power
GREEN DISPLAY



VARIOPROTECT XXL-W-2 TC

New

- Top marks in the optical class, scatter and homogeneity class, and angle property class rating
- Easy to operate, even when wearing welder's gloves
- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Large field of vision
- Welder's visor with centre of gravity at rear, very light, gentile on the head and neck

VarioProtect solar power
TRUE COLOR DISPLAY

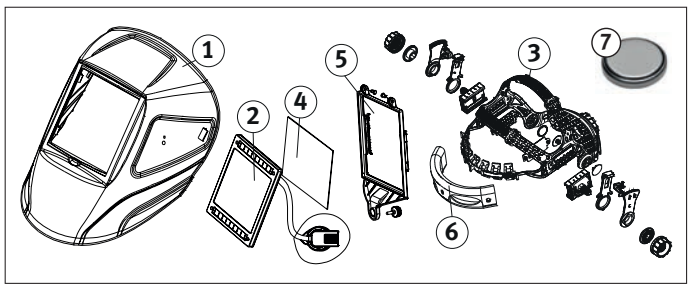


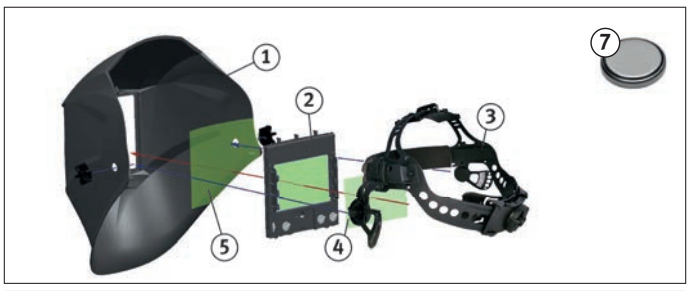
Model		VarioProtect XXL W	
Colour		red	blue
Art. no.		1654010	1654010-3

Filter cassette		
View window w x h	mm	100 x 65
Response time light/dark	ms	0.3
Dark to light transition time	ms	150 - 800
Dark protection level		DIN 4-8/9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 3
Solar cells		Yes
Batterie type		1x 3V Lithium battery (CR2450)
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Polyamidnylon
Dimensions and weight		
Dimensions (L x W x H)	mm	225 x 230 x 290
Weight approx.	g	460

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

Filter cassette		
View window width x height	mm	100 x 73
Response time light/dark	ms	0.3
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		Lithium battery (CR2450)
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Polyamide
Dimensions and weight		
Dimensions (L x W x H)	mm	244 x 295 x 323
Weight approx.	g	430





Accessories VarioProtect XXL W

No.	Designation	PQ	Art. no.
5	Outer lens	10	1662030
4	Inner lens	10	1662031
3	Headband complete	1	1662032
6	Sweat band for forehead	1	1662023
	Centre sweat band (head / top)	1	1662050
	Rear sweat band (neck)	1	1662051
7	Lithium battery 3V CR2450	1	1662034
1	Welder's helmet casing	1	1662033
2	Filter cassette XXL-W	1	1662035

Accessories VarioProtect XXL-W-2 TC

No.	Designation	PQ	Art. no.
5	Outer lens	10	1662075
4	Inner lens	10	1662076
3	Headband complete	1	1662032
	Sweat band for forehead	1	1662023
2	Filter cassette	1	1662077
	Magnifying lens 2.0	1	1662036
	Centre sweat band (head / top)	1	1662050
	Rear sweat band (neck)	1	1662051
6	Lithium battery 3V CR2450	1	1662034

*Top marks in the optical class / scatter class / homogeneity class / angle property class evaluation

Automatic welding helmets

VARIOPROTECT XXL-W-2 TC

- Top marks in the optical class, scatter and homogeneity class, and angle property class rating
- Easy to operate, even when wearing welder's gloves
- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Large field of vision
- Welder's visor with centre of gravity at rear, ver light, gentile on the head and neck

VarioProtect solar power TRUE COLOR DISPLAY







Best marks rated 1/1/1/1

VARIOPROTECT XXL-W F-TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Large field of vision
- Flip-up system: Cassette is tilted up with helmet, for example, for a direct view through the clear protective visor during grinding
- Top marks in the optical class, scatter class, homogeneity class, and angle property class rating

VarioProtect solar power TRUE COLOR DISPLAY







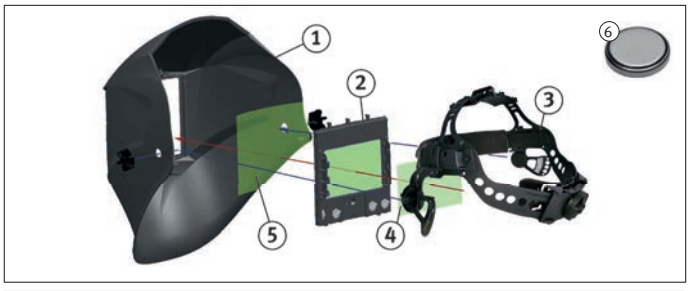
▶ Flip-up system



Best marks rated 1/1/1/1

Model		VarioProtect XXL-W-2 TC
Art. no.		1654025
Filter cassette		
View window width x height	mm	100 x 73
Response time light/dark	ms	0.3
Dark to light transition time	ms	
Dark protection level		DIN 4-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		1x Lithium battery 3V CR2450
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Polyamide
Dimensions and weight		
Dimensions (L x W x H)	mm	244 x 295 x 323
Weight approx.	g	500

Model		VarioProtect XXL-W F-TC
Art. no.		1654100
Filter cassette		
View window width x height	mm	100 x 65
Response time light/dark	ms	0.3
Dark to light transition time	ms	
Dark protection level		DIN 4-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		Lithium battery 3V CR2450
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Polyamide
Dimensions and weight		
Dimensions (L x W x H)	mm	144 x 234 x 334
Weight approx.	g	558



Accessories VarioProtect XXL-W-2 TC

No.	Designation	PQ	Art. no.
1	Welder's helmet casing, carbon	1	1662078
5	Outer lens	10	1662075
4	Inner lens	10	1662076
3	Headband complete	1	1662032
	Sweat band for forehead	1	1662023
2	Filter cassette	1	1662077
	Magnifying lens 2.0	1	1662036
	Centre sweat band (head / top)	1	1662050
	Rear sweat band (neck)	1	1662051
6	Lithium battery 3V CR2450	1	1662034



Accessories VarioProtect XXL-W F TC

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662060
2	Inner lens	10	1662061
3	Headband complete	1	1662032
4	Sweat band for forehead	1	1662023
5	Lithium battery 3V CR2450	1	1662034
	Sweat band top of head	1	1662050
	Sweat band neck	1	1662051
	Magnifying lens 2.0	1	1662036

*Top marks in the optical class / scatter class / homogeneity class / angle property class evaluation

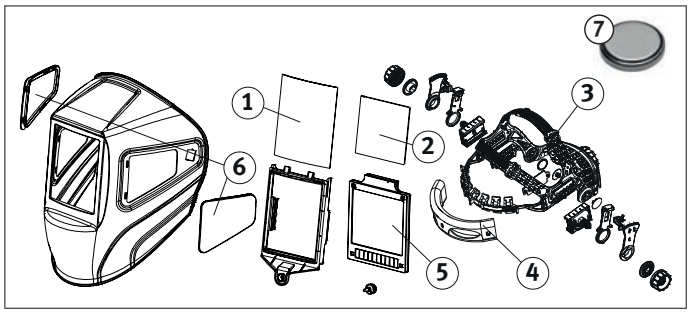
VARIOPROTECT 3XL-W SW TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Extra large field of vision
- Continuously variable DIN 5-9 and DIN 9-13
- Adjustment of the dark protection level on the outside of the helmet without having to remove the helmet

VarioProtect solar power
TRUE COLOR DISPLAY



Model		VarioProtect 3XL-W SW TC
Art. no.		1651005
Filter cassette		
View window width x height	mm	100 x 93
Response time light/dark	ms	0.1
Dark to light transition time	ms	150 – 800
Dark protection level		DIN 5-9/9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		2 x Li-Mn battery (CR2032)
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	247 x 194 x 324
Weight approx.	g	510



Accessories VarioProtect Panorama S-TC

No.	Designation	PQ	Art. no.
1	Outer lens (10 units)	10	1662100
2	Inner lens (10 units)	10	1662101
3	Headband complete	1	1662123
4	Sweat band for forehead	1	1662122
6	Side window set	1	1662130
5	Filter cassette	1	1662150
7	Lithium battery 3V CR2032	1	1662107

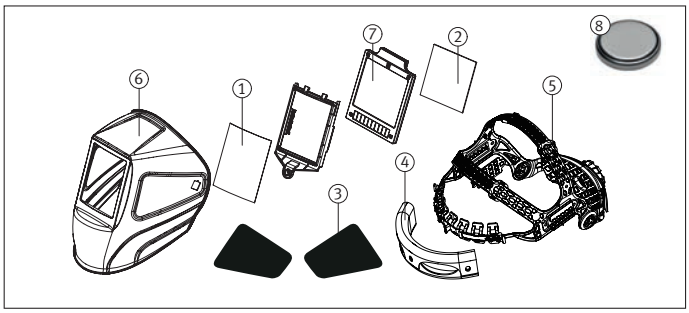
VARIOPROTECT 3XL-W DIGITAL TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Extra large view window
- Digital filter cassette for easy and intuitive use
- Switchover between grinding and welding mode without removing the helmet
- Large view window

VarioProtect solar power
TRUE COLOR DISPLAY



Model		VarioProtect 3XL-W Digital TC
Art. no.		1654030
Filter cassette		
View window width x height	mm	100 x 93
Response time light/dark	ms	0.04
Dark to light transition time	ms	60 – 1200
Dark protection level		DIN 4-8/8-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		2x 3V Lithium battery (CR2032)
Battery replaceable		Yes
Number of sensors		5
Standards and certifications		
Class		1/1/1/1*
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	252 x 289 x 336
Weight approx.	g	550



Accessories VarioProtect XXL W

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662100
2	Inner lens	10	1662101
3	Side window set	1	1662130
4	Sweat band for forehead	1	1662122
5	Headband complete	1	1662123
6	Welder's helmet casing	1	1662134
7	Filter cassette	1	1662135
	Magnifying lens 2.0	1	1662106
8	Battery for VarioProtect CR2032	1	1662107

*Top marks in the optical class / scatter class / homogeneity class / angle property class evaluation

Automatic welding helmets

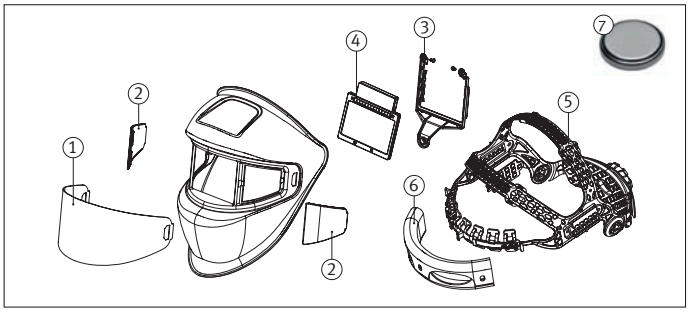
VARIOPROTECT PANORAMA W R-TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Welding in true colours thanks to True Color cassette in main view window
- Pleasant welding with 180° field of vision
- Side windows are automatically also darkened

VarioProtect solar power
TRUE COLOR DISPLAY



Model		VarioProtect Panorama W TC red
Art. no.		1654070
Filter cassette		
View window width x height	mm	100 x 67
Response time light/dark	ms	0.04
Dark to light transition time	ms	150 – 800
Dark protection level		DIN 5-9/9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 3
Light level side windows		Protection level 5
Solar cells		Yes
Batterie type		1x 3V Lithium battery (CR2032)
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		**1/1/1/1***
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	249 x 298 x 334
Weight approx.	g	540



Accessories VarioProtect Panorama W TC

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662140
	Inner lens	10	1662141
2	Inner side window set	2	1662142
3	Holding frame for filter cassette	1	1662143
4	Filter cassette	1	1662144
5	Sweat band for forehead	1	1662122
6	Headband complete	1	1662123
7	Battery for VarioProtect CR2032	1	1662107

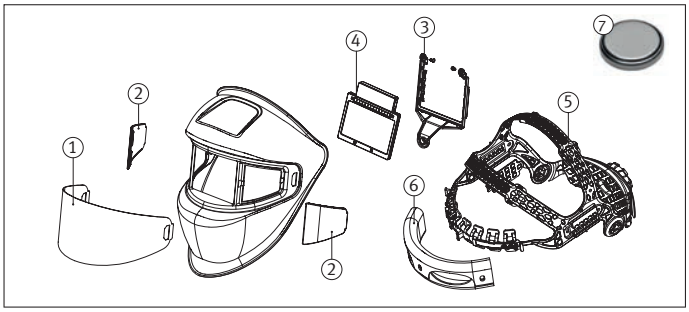
VARIOPROTECT PANORAMA W S-TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Welding in true colours thanks to True Color cassette in main view window
- Pleasant welding with 180° field of vision
- Side windows are automatically also darkened

VarioProtect solar power
TRUE COLOR DISPLAY



Model		VarioProtect Panorama W TC silver
Art. no.		1654060
Filter cassette		
View window width x height	mm	100 x 67
Response time light/dark	ms	0.04
Dark to light transition time	ms	150 – 800
Dark protection level		DIN 5-9/9-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 3
Light level side windows		Protection level 5
Solar cells		Yes
Batterie type		1x 3V Lithium battery (CR2032)
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		**1/1/1/1***
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	249 x 298 x 334
Weight approx.	g	540



Accessories VarioProtect Panorama W TC

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662140
	Inner lens	10	1662141
2	Inner side window set	2	1662142
3	Holding frame for filter cassette	1	1662143
4	Filter cassette	1	1662144
5	Sweat band for forehead	1	1662122
6	Headband complete	1	1662123
7	Battery for VarioProtect CR2032	1	1662107

***Top marks** in the optical class / scatter class / homogeneity class / angle property class evaluation

VARIOPROTECT PANORAMA-W TC

- **Class: 1/1/1/1;** Top marks in the optical class, scatter class, homogeneity class, and angle property class rating
- View window: 115 x 85 mm
- Large 180° panoramic field of vision
- True Color

VarioProtect solar power
TRUE COLOR DISPLAY







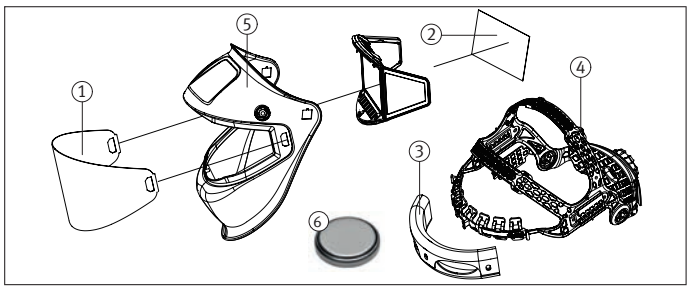
Manual setting from the out-side



Best marks 1/1/1/1 Classification

Model		VarioProtect PANORAMA-W TC
Art. no.		1651010

Technical specifications		
View window / Side window	mm	115 x 85 / 80 x 68
Power supply		Solar cells + replaceable batteries
On/Off		Fully automatic
UV/IR protection		Protection class 16 (permanent)
Protection levels		DIN 4-8/8-12
Light shade level		Protection level 3
Number of sensors		4
Response time light/dark	ms	0.04
Dark to light transition time	ms	150 - 800 ((continuously adjustable)
Standards and certifications		
Class		**1/1/1/1***
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	
Weight approx.	g	610



Accessories VarioProtect PANORAMA W TC

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662165
2	Inner lens	10	1662121
3	Sweat band for forehead	1	1662122
4	Headband complete	1	1662123
6	Battery 3V CR2450	1	1662034

VARIOPROTECT PANORAMA-W DIGITAL TC

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Welding in true colours thanks to True Color cassette in main view window
- Large 180° panoramic field of vision
- Side windows are automatically also darkened
- Digital filter cassette for easy and intuitive use

VarioProtect solar power
TRUE COLOR DISPLAY



Digital setting from the inside

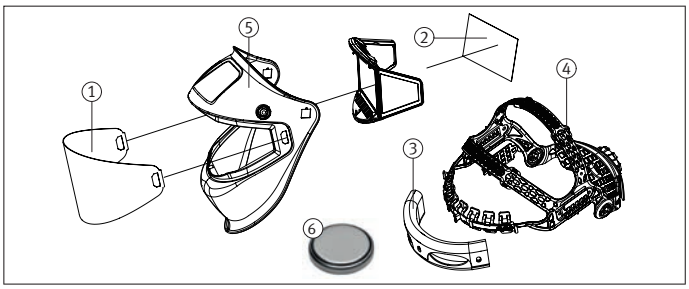




Best marks 1/1/1/1 Classification

Model		VarioProtect PANORAMA-W DIGITAL TC
Art. no.		1654040

Filter cassette		
View window width x height	mm	115 x 85
Response time light/dark	ms	0.04
Dark to light transition time	ms	60 – 1200
Dark protection level		DIN 4-8/8-14
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		2x 3V Lithium battery (CR2032)
Battery replaceable		Yes
Number of sensors		5
Standards and certifications		
Class		**1/1/1/1***
Welders' visor		
Material		Nylon
Dimensions and weight		
Dimensions (L x W x H)	mm	249 x 296 x 334
Weight approx.	g	570



Accessories VarioProtect PANORAMA-W DIGITAL TC

No.	Designation	PQ	Art. no.
1	Outer lens	10	1662120
2	Inner lens	10	1662121
3	Sweat band for forehead	1	1662122
4	Headband complete	1	1662123
5	Welder's helmet casing	1	1662124
6	Lithium battery 3V CR2032	1	1662107

*Top marks in the optical class / scatter class / homogeneity class / angle property class evaluation

Grinding helmet

VarioProtect® GRINDING – welding helmet

- Ideal for grinding applications, metalworking and woodworking
- Unrestricted and clear view
- Maximum comfort for the user thanks optimised fit and easily adjustable headband
- Low weight





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

VarioProtect GRIND-AIR grinding helmet – Face and respiratory protection against chips and dust caused by cutting and grinding work

VarioProtect®

- Ideal for grinding applications, metalworking and woodworking
- Unrestricted and clear view
- Maximum comfort for the user thanks optimised fit and easily adjustable headband
- TH 3 air filter system for a continuous supply of filtered, clean air without breathing in dangerous and health-hazardous particles
- Excellent filter effect: 99.996 % = 0.3µm
- Three blower stages selectable
- Uniform air distribution in fresh-air helmet
- Li-ION rechargeable battery for up to 8 hours of operation
- Low weight



Grinding dust is harmful to health!

VarioProtect GRIND AIR

The most effective solution: air is fed directly into the user's helmet

To prevent illnesses, the GRIND AIR offers a safe alternative for worry-free grinding work

Technical specifications		VarioProtect GRIND AIR
Art. no.		1654205
Mask		
Material		Nylon
Lens strength	mm	1
Operating temperature	°C	-55 – +55
Blower breathing protection		
Air flow	l/min	1st gear: 170 2st gear: 200 3st gear: 230
Filter efficiency		99,996 % (0.3 µm)
Filter type		TH3 P R SL
Filter rechargeable battery run time	h	1st gear: 8 2st gear: 6 3st gear: 4
Batterie type		Rechargeable Li-ion battery (4400 mAh)
Rechargeable battery weight	g	350
Sound pressure level	dB(A)	‹ 73
Standards and certifications		
Standards		CE, ANSI, CSA, AS/NZS
Dimensions and weights		
Dimensions (L x W x H)	mm	460 x 250 x 250
Weight approx.	g	735
Explanation for weight		Grinding mask, filter, belt, battery

Experience our capability and request individual advice!



Contact: +49 (0951) 96 555-501
beratung@schweisskraft.de



Scope of delivery VarioProtect GRIND AIR:

- › Grinding helmet with air filter system
- › Fabric protector
- › Battery charger
- › Breathing hose with sheath 1 m
- › Air flow rate tester
- › Padded hip belt with shoulder strap
- › Black carrying bag

VarioProtect GRIND AIR – Grinding helmet with connection for fresh air filter systems

- Headband with connection for Schweißkraft fresh air filter systems, articles 1654205, 1654050 and 1654055



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

Headgear with connection for Schweißkraft fresh air filter systems



- for Art no. 1654050



- for Art no. 1654055



- for Art no. 1654205



- *Maximum comfort for the user thanks to an adjustable headband.*
- *The headband and sweat band are replaceable*



- *Large view window with unrestricted and clear view*



- *LCD for filter, battery status and air flow*



- *Fabric protector protects against welding fumes while keeping fresh air in the helmet*



Accessories VarioProtect GRIND AIR			
No.	Designation	PQ	Art. no.
1	Face guard made of fabric	1	1662230
2	Air filter system	1	1662231
3	Clear view visor *(requires 1662239)*	1	1662232
4	Visor mount	1	1662239
5	Seal for clear visor	1	1662233
6	Headband complete	1	1662237
7	Sweat band for forehead	1	1662238
8	Filter cover	1	1662206

Accessories VarioProtect GRIND AIR			
No.	Designation	PQ	Art. no.
9	TH3 filter	1	1662234
10	Pre-Filter	1	1662208
11	Spark blocker	1	1662209
12	Li-Ion rechargeable battery	1	1662211
13	Air hose	1	1662212
14	Belt attachment	1	1662213
15	Charger	1	1662214
16	Air flow rate tester	1	1662215
	Fastens on safety helmet	1	1662240

Automatic welder's protective helmet VarioProtect XXL-W TC AIR TH3

Welding in true colours and with clean breathing air

VarioProtect solar power

- Top marks in the optical class, scatter class, homogeneity class, and angle property class rating
- Welding in true colours thanks to **True Color** cassette
- The air filter system supplies the welder with filtered, clean air, thus preventing inhalation of dangerous and heath-hazardous particles and welding fumes
- Excellent filter effect: 99.99 % = 0.3µm
- 3 blower stages selectable
- Uniform air distribution in fresh-air helmet
- Easy to operate, even when wearing welder's gloves
- Integrated Li-ION rechargeable battery for up to 8 hours of operation

Best marks 1/1/1/1 Classification



Technical specifications		VarioProtect XXL-W TC AIR TH3
Art. no.		1654055
Welders' visor		
Class		1/1/1/1
View window	mm	83.4 x 100
Material		Nylon
Filter cassette		
Response time light/dark	ms	0.08
Dark to light transition time	ms	100 – 900
Dark to light transition time control		Continuously variable
Dark protection level		5-9/9-13
UV/IR protection		Permanent DIN 15
Light shade level		Protection level 4
Number of sensors		4
On/Off		Fully automatic
Solar cells		Yes
Batterie type		Lithium button battery CR2450 3V
Power supply		Solar cells + replaceable battery
Dimensions (L x W x H)	mm	114 x 133 x 9.5
Blower breathing protection		
Air flow	l/min	1st gear: 170 2st gear: 200 3st gear: 230
Filter efficiency		99.99 % = 0.3 µm
Filter type		TH3 P R SL
Filter rechargeable battery run time	h	1st gear: 8 2st gear: 6 3st gear: 4
Batterie type		Rechargeable Li-ion battery (4400 mAh)
Sound level	dB	‹ 73
Dimensions and weights		
Overall weight approx.	g	2,463
Explanation for weight		Welding mask, filter, belt, battery

Matching grinding helmet with connection for fresh air filter systems

New

- Air filter system of VarioProtect XXL-W TC AIR TH3 also fits grinding helmet VarioProtect GRIND AIR **(Art.-No. 1654206)**
- see page 125



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beratung@schweisskraft.de





Scope of delivery VarioProtect XXL-W TC AIR TH3:

- Welder's helmet with air filter system
- Battery charger
- Breathing hose with sheath
- Air flow rate tester
- Padded hip belt with double shoulder strap
- Black carrying bag

Welding fumes are harmful to health! Options for avoiding welding fumes:

Welding fume reduction with a welding system which avoids welding fumes to the extent possible thanks to its arc
▶ A 1 kg filler wire roll generates approx. 5.2 g welding fumes, which are extremely hazardous to health.

VarioProtect XXL-W TC AIR
The most effective solution: air is fed directly into the welder's helmet

▶ To prevent illnesses, the VarioProtect XXL-W TC AIR TH3 offers a safe alternative for worry-free welding work.





Welding fumes created by welding 1 kg SG wire

Filter units or welding fume extraction units
For extracting welding fumes directly at the welding workplace

▶ The toxic welding fumes increase the risk of lung cancer for the welder and the immediate environment. Inhaling these fumes must be avoided at all cost.











▶ Welding in true colours thanks to **True Color** cassette



Spare parts VarioProtect XXL-W TC AIR			
No.	**Designation**	**PQ**	**Art. no.**
1	Outer lens	1	1662200
2	Inner lens	1	1662201
3	Headband complete incl. air hose	1	1662255
4	Sweat band for forehead	1	1662203
5	Spare filter cassette	1	1662204
6	Welder's helmet casing	1	1662256
7	Filter cover	1	1662250
8	TH3 filter	1	1662251
9	Pre-Filter	1	1662208
10	Spark blocker	1	1662209
11	Air filter system	1	1662252

Spare parts			
No.	**Designation**	**PQ**	**Art. no.**
12	Li-ION battery	1	1662211
13	Air hose	1	1662253
14	Belt attachment	1	1662213
15	Charger	1	1662214
16	Air flow rate tester	1	1662215
17	Holding frame for filter cassette	1	1662216
18	Lithium battery 3V CR2450	1	1662007
19	Clamping nut	1	1662219
20	Clamping screw set	1	1662220
Accessories			
21	Magnifying lens 2.0	1	1662217
22	Fabric protector	1	1662254

Automatic welder's protective helmet VarioProtect XXL-W TC AIR – Welding in true colours and with clean breathing air

VarioProtect® solar power

- Suitable for electrode, MIG, MIG/MAG and TIG welding, and for grinding
- Welding in true colours thanks to True Color cassette
- Flip-up system: Cassette is tilted up with helmet, for example, for a direct view through the clear protective visor during grinding
- Highly-efficient air filtering and supply system provides the welder with clean and filtered air, thus preventing the inhalation of dangerous and heath-hazardous particles and welding fumes
- Two blower stages selectable
- Uniform air distribution in the helmet
- Li-ION rechargeable battery for up to 10 hours of operation
- Easy to operate, even when wearing welder's gloves
- Large field of vision
- Top marks in the optical class, scatter class, homogeneity class, and angle property class rating
- Welder's visor with centre of gravity at rear, very light, gentile on the head and neck



Best marks rated 1/1/1/1

TRUE COLOR DISPLAY



- Flip-up system

Model		VarioProtect XXL-W F-TC AIR
Art. no.		1654105
Filter cassette		
View window width x height	mm	100 x 65
Response time light/dark	ms	0.3
Dark to light transition time	ms	
Dark protection level		DIN 4-13
UV/IR protection		Protection class 16 (permanent)
Light shade level		Protection level 4
Solar cells		Yes
Batterie type		Lithium battery 3V CR2450
Battery replaceable		Yes
Number of sensors		4
Standards and certifications		
Class		**1/1/1/1***
Welders' visor		
Material		Polyamide
Blower breathing protection		
Air flow	l/min	1st gear: 180 2st gear: 220
Filter efficiency		
Filter type		**TH3P R SL**
Filter rechargeable battery run time	h	1st gear: 10 2st gear: 9
Batterie type		Li-ON 14.8V 2.2Ah
Sound level	dB	‹60
Dimensions and weight		
Dimensions (L x W x H)	mm	194 x 254 x 334
Weight approx.	g	2,600
Explanation for weight		Welder's and blower respiratory protection



Scope of delivery VarioProtect XXL-W F-TC AIR:
- › Welder's helmet
- › Air filter system
- › Rechargeable Li-ion battery 14.8V / 2.6 Ah
- › Battery charger
- › Breathing hose with sheath 1 m
- › Padded hip belt and double shoulder belt
- › Black carrying bag

***Top marks** in the optical class / scatter class / homogeneity class / angle property class evaluation

Welding fumes are harmful to health! Options for avoiding welding fumes:

Welding fume reduction with a welding system which avoids welding fumes to the extent possible thanks to its arc
▶ A 1 kg filler wire roll generates approx. 5.2 g welding fumes, which are extremely hazardous to health.

VarioProtect XXL-W F-TC AIR

The most effective solution: air is fed directly into the welder's helmet

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





Welding fumes created by welding 1 kg SG wire

Filter units or welding fume extraction units

For extracting welding fumes directly at the welding workplace

▶ The toxic welding fumes increase the risk of lung cancer for the welder and the immediate environment. Inhaling these fumes must be avoided at all cost.





▶ *Maximum comfort for the user thanks to an adjustable headband.*
▶ *The headband and sweat band are replaceable*



▶ *Large view window 100 x 65 mm*
▶ *Welding in true colours thanks to True Color cassette*
▶ *Continuous adjustment of dark protection level and sensitivity*
▶ *Adjustment of dark to light transition time*
▶ *Switchover between grinding and welding mode*



▶ *Continuous adjustment of dark protection level and sensitivity on outside of helmet and possible while wearing welder's gloves*
▶ *Switchover between grinding and welding mode without removing the helmet*



▶ *Fabric protector protects against welding fumes while keeping fresh air in the helmet*



Accessories VarioProtect XXL-W F-TC AIR			
No.	Designation	PQ	Art. no.
1	Outer lens	1	1662060
2	Inner lens	1	1662061
3	Headband complete	1	1662032
4	Sweat band for forehead	1	1662023
5	HEPA filter TH3P R SL	1	1662065
6	Pre-Filter	1	1662066
7	Spark blocker	1	1662067
8	Li-Ion rechargeable battery	1	1662068

Accessories VarioProtect XXL-W F-TC AIR			
No.	Designation	PQ	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
	Sweat band top of head	1	1662050
	Sweat band neck	1	1662051

Welding accessories

MIG/MAG welding gloves Basic

Specially suited for MIG/MAG

- Very soft and supple premium split cowhide leather
- Fleece lining for excellent comfort
- Long cuff for protection against weld spatter





- Improved dexterity thanks to seamless digit finger for easier gripping

Model	Size L	Size XL
Art. no.	1616110L	1616110XL
Delivery quantity	10 pairs	

Standards and certifications		
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	355 mm	360 mm

MIG/MAG welding gloves Pro

Specially suited for MIG/MAG, with palm

- Very soft and supple premium split cowhide leather
- Fleece lining for excellent comfort
- Long cuff for protection against weld spatter





- Improved dexterity thanks to seamless digit finger for easier gripping



- Hand surface made of two-layer cow hide

Model	Size L	Size XL
Art. no.	1616111L	1616111XL
Delivery quantity	10 pairs	

Standards and certifications		
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	355 mm	360 mm

TIG welding gloves Basic L

Ideal for TIG welding for great dexterity

- Palm surface made of goat's leather with split leather cuff
- Back of hand made of split cowhide leather
- Long cuff for protection against weld spatter



Model	Size M	Size L	Size XL
Art. no.	1616120 m	1616120L	1616120XL
Delivery quantity	10 pairs		

Standards and certifications			
EN 407:2004, Thermal risks	413X4X		
EN 388:2016, Mechanical risks	2111X		
DIN EN 12477:2001	Type B		
Dimensions			
Hand circumference approx.	220 mm	240 mm	270 mm
Length	328 mm	330 mm	340 mm

TIG welding gloves Pro

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

- Palm and back of hand made of goat's leather with split goat's leather cuff
- Long cuff for protection against weld spatter
- Palm with foam lining for improved wearing comfort





- Improved dexterity thanks to seamless digit finger for easier gripping

Model	Size M	Size L	Size XL
Art. no.	1616121M	1616121L	1616121XL
Delivery quantity	10 pairs		

Standards and certifications			
EN 407:2004, Thermal risks	413X4X		
EN 388:2016, Mechanical risks	2111X		
DIN EN 12477:2001	Type B		
Dimensions			
Hand circumference approx.	220 mm	240 mm	270 mm
Length	325 mm	330 mm	338 mm

Welder's jacket with fabric back –
great wearing comfort and high level of protection during welding

- Front and sleeves made of heat and fire resistant split leather
- Spatter protection made of leather on front
- Back made of flame-resistant fabric to keep wearer cool



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

Welder's apron 100 x 60 cm –
individually adjustable welder's apron made of split leather

- Front and sleeves made of heat and fire resistant split leather
- Spatter protection made of leather on front
- Back made of flame-resistant fabric to keep wearer cool



Model	Welder's apron 100 x 60 cm
Art. no.	1616300
Delivery quantity	1 unit

Dimensions	
Length	1070 mm
Width	630 mm

Leather sleeve protectors 48 cm –
highly resistant made of heat and fire-resistant leather

- Hook and loop fasteners on upper arm and at wrists



Model	Leather sleeve protectors 48 cm
Art. no.	1616400
Delivery quantity	1 pairs

Technical specifications	
Length	400 mm

Gaiters 300 –
Leg and foot protection made of heat and fire-proof leather

- Stress points riveted or reinforce with two layers of leather



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

Technical specifications	
Shank height	300 mm

Welding accessories



Designation	Art. no.	PQ
Full view visor clear	1600100	10

- made of flexible, clear plastic
- Ventilation opening covered by mesh
- suitable for acid, vapours, dust, and for grinding
- as per EN 166 B 0196 CE



Designation	Art. no.	PQ
Nylon safety goggles adjustable, clear, shatter-free	1600500	10
Nylon safety goggles adjustable, 5 A DIN	1600505	10

- End piece length and angle adjustable
- Lightweight and comfortable design
- Moulded lens 66 x 56 mm convex



Designation	Art. no.	PQ
Welders' goggles , clear, shatter-free	1600200	10
Welders' goggles 5 A DIN	1600205	10

- for DIN lenses 50 mm diameter



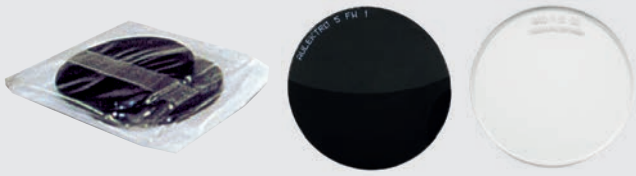
Designation	Art. no.	PQ
Nylon safety goggles, clear, shatter-free	1600400	10
Nylon safety goggles 5 A DIN	1600465	10

- Easy lens change with knurled screw
- Soft frame
- for DIN lenses 50 mm diameter



Designation	Art. no.	PQ
Flip-up welders' goggles P	1600305	10

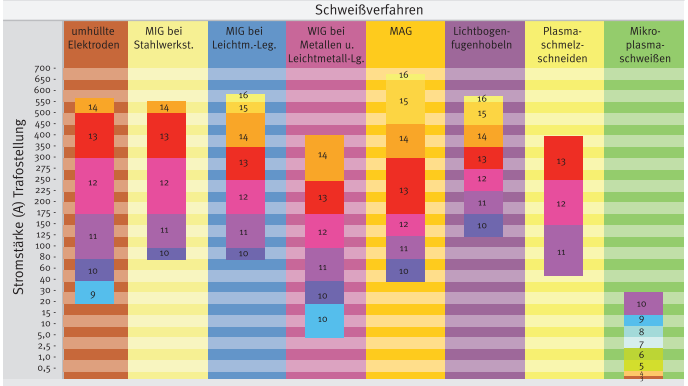
- Soft and stable PVC body
- Also suitable for spectacle wearers
- Flip-up DIN lenses with clear lenses underneath
- for DIN lenses 50 mm diameter, clear, shatter-free and 5 A DIN
- as per EN 166 3 4 F 0196 CE



Designation	Art. no.	PQ
DIN lenses, 5 A DIN round, 50 mm diameter	1600805	10
DIN lenses, clear, shatter-free round, 50 mm diameter	1600800	10

Welder's safety visors and their intended use in gas welding 3-8 FW 1 DIN

How to interpret the table correctly.
Read off the current output in Ampere (A) at the transformer for your selected welding method. Read off the current in the vertical column of figures in the chart. Now move from the amperage you read off to the column for your choice of welding procedure. You easily read off the protection class to be used (figure in the corresponding box).



Protection level	Flame cutting (l. oxygen/hr.)
3 FW 1 DIN	Simple flame cutting work
4 FW 1 DIN	‹ 900 l
5 FW 1 DIN	900 - 2 000 l
6 FW 1 DIN	2 000 - 4 000 l
7 FW 1 DIN	4 000 - 8 000 l
8 FW 1 DIN	› 8 000 l

Protection level	Flame cutting (l. oxygen/hr.)
3 FW 1 DIN	Simple flame cutting work
4 FW 1 DIN	‹ 900 l
5 FW 1 DIN	900 - 2 000 l
6 FW 1 DIN	2 000 - 4 000 l
7 FW 1 DIN	4 000 - 8 000 l
8 FW 1 DIN	› 8 000 l



Designation	Art. no.
Manual shield D	1600610
▶ Made of diamond fibre, straight design ▶ For lens size 90 x 110 without safety visors	



Manual shield D	1600620
▶ Made of fibreglass right-angle design ▶ For lens size 90 x 110 without safety visors	



Free view manual shield G	1600600
▶ Made of fibreglass right-angle design ▶ With insulated mechanical system, for lens size 90 x 110 without safety visors	



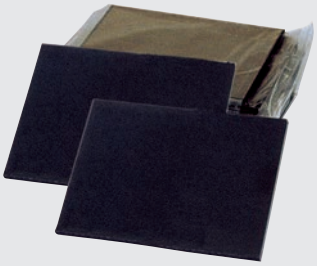
Head protector G	1600710
▶ Fibreglass with headband ▶ For lens size 90 x 110 without safety visors	



Head protector P	1600720
▶ made of polypropylene with headband ▶ For lens size 90 x 110 without safety visors	



Designation	Art. no.
Headband with latch adjustment	1600711
▶ for head protector G ▶ Continuously variable ▶ with sweatband for forehead	
Headband for head protector P	1600721



Designation	Art. no.
Welders' safety visors 90 x 110 as per DIN	
9 A DIN	1601009
10 A DIN	1601010
11 A DIN	1601011
12 A DIN	1601012
13 A DIN	1601013
Welders' safety visors mirrored 90 x 110 as per 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



Glass lens (clear)	
90 x 110	1601300
40 x 110	1601301
1 000 hour visor 90 x 110	
Plastic CR 39	1601310



Welders' protective leather mask	1600050
▶ Made of soft leather sewn with Kevlar thread ▶ for out-of-position shield gas welding ▶ Flip-up plastic goggles Ø 50 mm	

TransEco safety screen

Safety wall self-supporting via 2 uprights and mobile

- Easily combined and extended, many benefits:
- Protection against radiation during arc welding
- Protection against dirt, moisture, drafts and annoying insolation
- Sight protection for welding and grinding
- Easy assembly, tubular steel frame, powder coated
- Covered with TransTec foils in tried and trusted quality
- Stable as single walls, cabins or complete workpiece partitions
- Space-saving packaging (can be sent by parcel post)
- Certified as per DIN EN 1598, hazard class ‹ 1

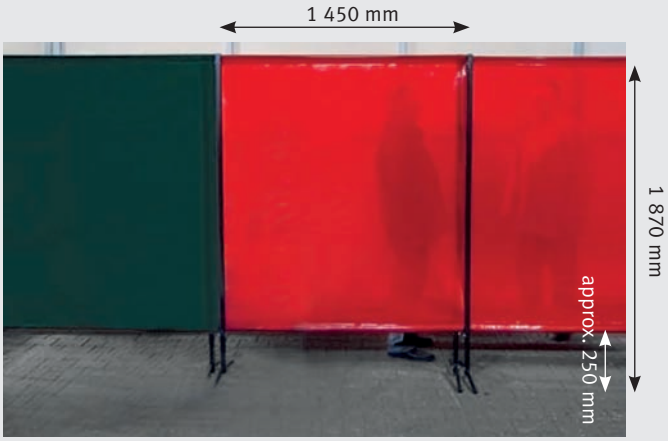


Figure shows multiple safety walls in series

Designation	Weight	Art. no.
TransEco safety wall 1 450 V red-orange 1 450 x 1 870 mm	9.3 kg	1611450
TransEco safety walls 1450 V dark green matt 1 450 x 1 870 mm	9.3 kg	1611451
TransEco safety walls 2050 V red-orange 2 050 x 1 870 mm	10.5 kg	1612000
TransEco safety walls 2050 V dark green matt 2 050 x 1 870 mm	10.5 kg	1612001

Delivered as an assembly kit with installation guide for self-assembly (for TransEco and TransFlex)

TransFlex safety wall

Safety wall wheeled, mobile

- TransFlex is based on a stable, welded frame made of square tube and 1" round tube, fully powder-coated
- TransFlex basic elements are mobile and 2 100 mm wide.
- 2 arms as booms 800 mm width
- 3 curtains in 2 designs: red-orange or dark green matt, 1 300 mm width x 1 600 mm height, non-seamed
- 4 rollers Ø 100 mm, of which 2 with brake

Product benefits:

- Adapts flexibly to changing welding situations
- Inexpensive protection as a single screen
- Ideal also in combination with multiple walls
- Easy to assemble
- Ground clearance 300 mm
- Certified as per DIN EN 1598, hazard class ‹ 1

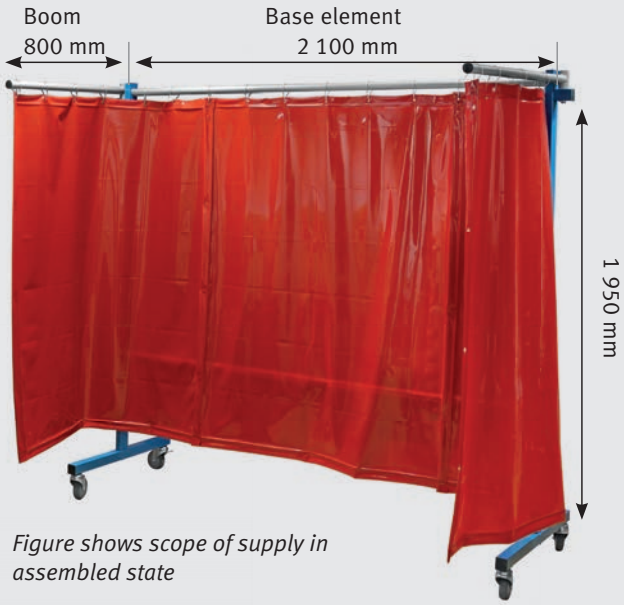


Figure shows scope of supply in assembled state

Designation	Weight	Art. no.
TransFlex safety wall with non hemmed curtain, red-orange 3 700 x 1 950 mm	35 kg	1613000
TransFlex safety wall with non hemmed curtain, dark green 3 700 x 1 950 mm	35 kg	1613001

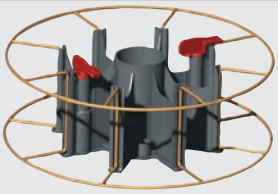
Example of use:



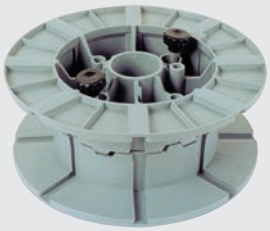
Two TransFlex safety walls combined to form an enclosed cabin. Outer walls and booms pivot



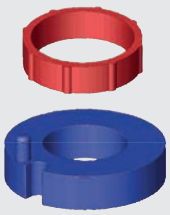
Designation	Art. no.
Basket spool adapter KA 1	1110001
▶ pluggable	



Designation	Art. no.
Basket spool adapter KA 2	1110005
▶ with quick release coupling	



Designation	Art. no.
Basket spool adapter KA 3	1110006
▶ Two-part	



Designation	Art. no.
Centring adapter for D 200 spools	1110007
▶ Two-part	



Designation	Art. no.
Gas flow meter for CO^2 + Argon	1251100



Designation	Art. no.
MIG/MAG special gun	
Size 1, for 12-15 mm tips	1091000
Size 2, for 15-18 mm tips	1092000
▶ Fast and dimensionally true cutting of the filler wire	
▶ Time-saving cleaning and honing of the shield gas tip, and loosening and tightening the contact tip	

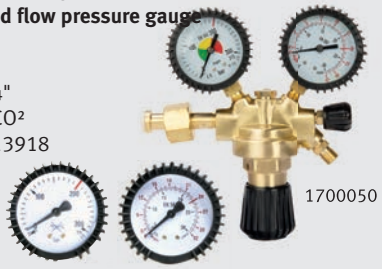
Accessories for Argon/CO_2 pressure regulator (Art. no. 1700054) with content pressure gauge and flow pressure gauge
Max. pressure: 200 bar
Max. flow rate: 15 l/min
Connection: W 21.8 x 1/14"-1/4"
For gases: Argon, mix Ar/CO^2, CO^2
As per standard: EN 2503, EN 13918


1700054

1700451 1700452

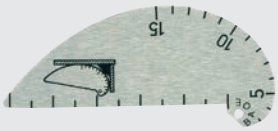
Designation	Art. no.
Schweißkraft small, Ø 50 mm	1700054
Content pressure gauge Ø 50 mm 0-315 bar	1700451
Flow pressure gauge Ø 50 mm 0-15 l/min	1700452

Accessories for Argon/CO^2 pressure regulator (Art. no. 1700050) with content pressure gauge and flow pressure gauge
Max. pressure: 200 bar
Max. flow rate: 30 l/min
Connection: W 21.8 x 1/14"-1/4"
For gases: Argon, mix Ar/CO^2, CO^2
As per standard: EN 2503, EN 13918

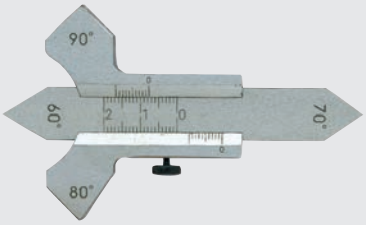

1700050

1700059 1700058

Designation	Art. no.
Schweißkraft large, Ø 63 mm	1700050
Content pressure gauge Ø 63 mm 0-315 bar	1700059
Flow pressure gauge Ø 63 mm 0-30 l/min	1700058



Designation	Art. no.
Weld gauge SL 1	1252201
▶ made of aluminium	



Designation	Art. no.
Weld gauge SL 2	1252202
▶ Precision design for measuring flat welds and welds in corners 60°/80°/90°	



Designation	Art. no.
Tip spray 400 ml (VE 12)	1096401
▶ water-free	
▶ silicon-free, odourless and CFC-free	
▶ Releasing agent on plant basis	

Welding accessories



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

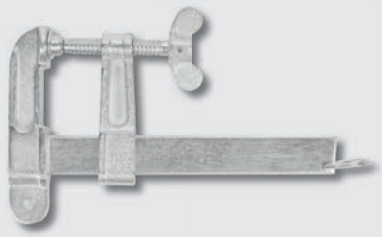
▶ Insulated as per EN 60974-11 with impact-proof insulated shells made of glass fabric laminate for Allen cable shoe connection

Designation	Art. no.
Insulating shells for electrode holder	
Pratica 1	1240124
Pratica 2	1240144
Pratica 3	1240164



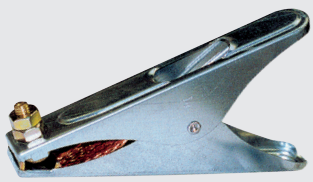
Designation	Art. no.
Electrode holder Superior 4	1240040

▶ 250 A - 35 % DC/200 A - 60 % DC/Electrodes 2.4-4 mm/ cable 25-35 mm²/480 gr. handle and head flame- and heat-resistant
▶ Body made of brass with insulated pressure spring
▶ Electrode is clamped by turning the electrode holder head
▶ with cable shoe connection
▶ as per EN 60974-11 and IEC 974-11, B200 TÜV CE



Designation	Art. no.
Terminal welding clamp made of steel 400 A	1250140
Terminal welding clamp made of steel 600 A	1250160

Tempered casting, clamping width 150 mm, throat 80 mm, with cable strain relief



Designation	Art. no.
ground clamps	
200 A, braided copper, 180 mm, M6	1240220
400 A, m. copper core, terminal conn. brass strap, 200 mm, M10	1240240
600 A, braided copper, 200 mm, M10	1240260



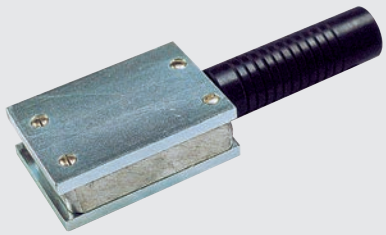
Designation	Art. no.
ground clamps Nevada as per BS 638-5 CE	
Nevada 3 (300 A - 60 %/400 A - 35 %)	1240235
Nevada 5 (400 A - 60 %/500 A - 35 %)	1240265



Designation	Art. no.	PQ
Press-fit cable lugs 16 mm²	1250416	10
Press-fit cable lugs 25 mm²	1250425	10
Press-fit cable lugs 35 mm²	1250435	10
Press-fit cable lugs 50 mm²	1250450	10
Press-fit cable lugs 70 mm²	1250470	10



Designation	Art. no.	PQ
Screw-type cable lugs CU 25 mm²	1250525	10
Screw-type cable lugs CU 35 mm²	1250535	10
Screw-type cable lugs CU 50 mm²	1250550	10
Screw-type cable lugs CU 70 mm²	1250570	10



Designation	Art. no.
Magnetic terminal clamp MPK 400 A	1240340
Magnetic terminal clamp MPK 600 A	1240360

▶ Excellent magnetic hold on pipes



Designation	Art. no.
Chipping hammer	1250300

▶ approx. 440 g
▶ Oval tube Ø 28 mm
▶ All steel construction



Designation	Art. no.
Welding workplace equipment	
SPA 16 mm²/KS 10-25 mm²/ Pratica 1/Earth clamp 200 A	1240400
SPA 25 mm²/KS 35-50 mm²/ Pratica 1/Earth clamp 200 A	1240445
SPA 35 mm²/KS 35-50 mm²/ Pratica 2/Earth clamp 600 A	1240450

- Welding cable PVC 5 m with electrode holder and welding cable plug
- Earth cable PVC 3 m with ground clamp and welding cable plug
- Chipping hammer
- Wire brush 2-row
- Manual shield polypropylene (CE)
- Welder's visor DIN 9
- Lens 90x110 mm
- Gloves 5-finger



Designation	Art. no.
Welding cable 5 m pre-assembled	
25 mm²/10-25 mm2/9 mm pin/M8	1250227
35 mm²/16-35 mm²/13 mm pin /M10	1250236
50 mm²/35-50 mm²/13 mm pin/M10	1250252

- as per H01 N2 D VDE 0250
- 5 m complete with welding cable plug and crimp cable shoe
- for attaching an ground clamp or electrode holder



Designation	Art. no.
Welding cable per metre 16 mm²	1250316
Welding cable per metre 25 mm²	1250325
Welding cable per metre 35 mm²	1250335
Welding cable per metre 50 mm²	1250350
Welding cable per metre 70 mm²	1250370

- as per H01 N2 D VDE 0250, part 6
- highly flexible
- Cold- and flame-resistant



Earth cable 4 m, complete with earth clamp	Art. no.
16 mm², KS 25/9 mm, clamp 200 A	1250215
25 mm², KS 25/9 mm, clamp 200 A	1250224
16 mm², KS 50/13 mm, clamp 200 A	1250216
25 mm², KS 50/13 mm, clamp 200 A	1250225
35 mm², KS 50/13 mm, clamp 400 A	1250235
50 mm², KS 50/13 mm, clamp 600 A	1250250
70 mm², KS 70/13 mm, clamp 600 A	1250270



Welding cable 4 m complete with electrode holder	Art. no.
16 mm², KS25/9 mm, electrode holder 260 A	1250353
25 mm², KS25/9 mm, electrode holder 260 A	1250354
16 mm², KS50/13 mm, electrode holder 260 A	1250360
25 mm², KS50/13 mm, electrode holder 260 A	1250361
35 mm², KS50/13 mm, electrode holder 400 A	1250362
50 mm², KS50/13 mm, electrode holder 600 A	1250363
70 mm², KS50/13 mm, electrode holder 600 A	1250364



Designation	Art. no.	PQ
Welding cable coupling connector KS 25, 10-25 mm²	1250635	10
Welding cable coupling connector KS 50, 35-50 mm²	1250650	10



Designation	Art. no.	PQ
Welding cable coupling socket KB 25, 10-25 mm²	1250735	10
Welding cable coupling socket KB 50, 35-50 mm²	1250750	10



Designation	Art. no.	PQ
Welding cable installable socket EB 25, 10-25 mm²	1250836	10
Welding cable installable socket EB 50, 35-50 mm²	1250851	10

ELECTRODE WELDING DEVICES



Why grind electrodes?

To avoid ignition problems and an instable arc in direct current (DC) TIG welding (DC), the electrode needs to be ground to a point in the current flow direction. For alternating current (AC) TIG welding, a chamfer must be ground in current flow direction for electrodes of Ø 1.6 mm or more to ensure a narrow arc!

The EG 1 lets you regrind electrodes (as of 15 mm length, up to Ø 4.0 mm) up to 200 times!

Electrode grinder EG 5 – Best welding results thanks to optimally ground tungsten electrodes.

- For perfect grinding of tungsten electrodes with a diameter of 1.6 to 5 mm
- Grinding angle continuously variable from 0 to 60 degrees
- Stop for setting the correct grinding length integrated in device
- Precise grinding in longitudinal direction for improved ignition properties, stable arc and longer lifetime
- Unproblematic grinding, even down to a length of just 50 mm, spherical tip or drops of metal
- Clamping possible when wearing work gloves via easy-action knurled screw
- Grinding dust easily removable via a drawer



Stop for setting the correct grinding length integrated in device

Scope of supply **EG 5:**
Diamond disc Ø 90 mm
One collet each of size 1.6/2.0/2.4/3.2/4.0 mm

Model		**EG 5**
Art. no.		1692005

Technical specifications		
Electrode diameter	mm	1.6 – 5.0
Min. electrode length	mm	35
Grinding angle	°	15 – 60
Rotational speed	rpm	6500
Diamond discs Ø	mm	90
Drive motor output	kW	0.07
Supply voltage	V	230
Mains frequency	Hz	50
Dimensions (L x W x H)	mm	225 x 150 x 195
Weight approx.	kg	4.1

Info & Video



Accessories	**Art. no.**
① Diamond disc G180	1692050
① Diamond disc G320	1692065
Electrode holder	1692051
Collet 1.6 mm	1692052
Collet 2.0 mm	1692053
② Collet 2.4 mm	1692054
Collet 3.2 mm	1692055
Collet 4.0 mm	1692056
Collet 5.0 mm	1692057
Safety glass	1692058
Main switch	1692059
Rubber foot set	1692060
Seal	1692061
Mounting bolt	1692062
Spacer	1692063
Adjusting nut	1692064
③ Indicator	1692066
④ Cleaning brush	1692067

Electrode grinder

Electrode grinder EG 4 -
For perfect grinding of tungsten electrodes with a diameter of 1.0 to 4.0 mm

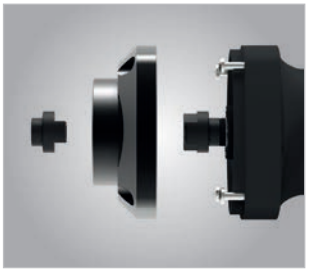
- Easy handling due to preset grinding angles and diameters
- Grinding angle 15°, 18°, 22.5° and 30° selectable
- Handy device, optimal for use in the workshop or during assembly
- Integrated 5-step speed regulation via rotary wheel
- Easy to change grinding wheel



Grinding and cutting options for different electrode diameters



5-stage adjustable speed control



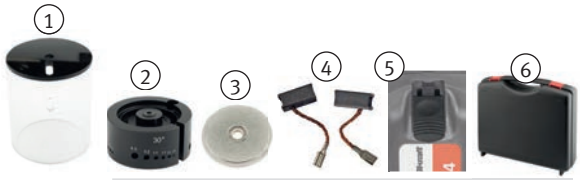
Easy to change grinding wheel





Scope of supply **EG 4:**
1 x additional grinding wheel
1 x transport case

Model		**EG 4**
Art. no.		1692004
Electrode diameter	mm	1.0 – 4.0
Min. electrode length	mm	30
Grinding angle	°	15 – 30
Rotational speed	rpm	0 – 11 000
Speed control		5-stage
Diamond disc diameter	mm	33.5
Supply voltage	V	230
Dimensions (L x W x H)	mm	340 x 76 x 76
Net weight approx.	kg	1.6



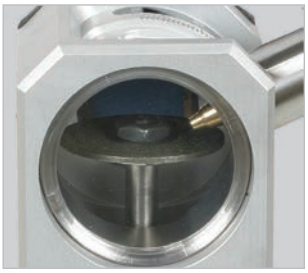
Accessories	**Art. no.**
① Cover cap	1692080
② Angle display	1692081
③ Grinding wheel	1692082
④ Carbon brush pair	1692083
⑤ Switch	1692084
⑥ Transport case	1692085

Electrode grinder EG 1 – best welding results thanks to optimally ground electrodes.

- Optimised for use in the workshop and on site
- Minimal material removal on the electrode of just 0.3 mm thanks to integrated setting gauge
- The electrode can be reground up to 200 times, instead of just 50-100 times
- Does not anneal during the grinding process
- Integrated extraction unit with P3 dust filter, thus optimum protection for the operator
- Precise electrode guiding in a clamping bracket
- Integrated extraction unit with disposable filter element
- Continuously adjustable speed control via adjusting knob
- 3 grinding levels of the diamond disc can be used through a simple setting; this gives you three times the disc service life
- Electrodes with metal drops can be ground directly; this saves time and avoids breaking the electrode
- Powerful 850 Watt motor
- Also for grinding short electrodes (up to 15 mm), e.g., for orbital welding equipment



Continuously adjustable angle adjustment from 15°-180°



Integrated view window





Scope of supply with case

Model		EG 1
Art. no.		1690100

Technical specifications		
Electrode Ø:	mm	1.0 - 4.0
Continuously variable grinding angle	°	15° – 180°
Min. electrode length	mm	22
Output 50-60 Hz	W	850
Power supply	V	230
Continuously variable speed	rpm	8,000 - 22,000
Diamond disc	mm	Ø 40
Weight	kg	3.8

Scope of supply **EG 1:**
Drive motor
Grinding head with filter housing and filter
Electrode holder
Diamond disc Ø 40 mm
Collet for electrodes 1.6/2.4/3.2 mm
Operating tool, 2 x Allen key 2/4 mm, 2 x flat spanner 13-17/13-14 mm
Waste disposal bag for disposable filter
In plastic case

Accessories	Art. no.
Diamond disc 40 mm	1690102
Electrode holder	1690103
Collet 1.0 mm	1690105
Collet 1.6 mm	1690106
Collet 2.0 mm	1690107
Collet 2.4 mm	1690108
Collet 3.2 mm	1690109
Collet 4.0 mm	1690110
Filter cassette	1690117
Waste disposal bag	1690121
Switch	1690131