BALACLAVA

Full Head Protection

Balaclava

Protection

The Balaclava is worn underneath the welding helmet to give full head protection when working under hot, humid as well as cold environment.

- Light Weight – 66 grams
- Absorbs sweat
- Washable

Visit **www.**esabindia.com for more information.

2017-02-09 / ESAB reserves the right to alter specifications without prior notice.

Ordering Information

Description	Part number	Description	Part number
BALACLAVA (Pack of 10 Nos)	2001007009	ECO ARC II HELMET (90 X 110 MM)	0700000762
ESAB SAFETY SHOE, SIZE 8	2001006004	WARRIOR TECH 9-13 YELLOW	0700000401
WARRIOR SPECTACLE CLEAR	0700012300	WARRIOR SPECTACLE SMOKED	0700012301
WELDING HAND GLOVES L	2001005001	WELDING HAND GLOVES XXL	2001005005
WELDING APRON (MEDIUM)	2001007005	WELDING APRON (LARGE)	2001007001
WELDING SLEEVE	2001007002	WELDING LEG GUARD	2001007003
WELDER'S JACKET	2001007006		

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502, 5th Floor, Sagar Tech-B
Andheri Kurla Road, Saki Naka
Andheri East, Mumbai 400 072
Tel : (022) 2851 7386
Email : eqptsales.wr@esab.co.in

Northern Regional Office
239 – 240, DLF Tower
Shivaji Marg, near Karampura
Crossing, New Delhi 110 015
Tel : (011) 4142 7091
Email : eqptsales.nr@esab.co.in

Southern Regional Office
13, Industrial Estate, III Main Road,
Ambattur, Chennai – 600 058
Tel : (044) 4340 4809 / 10
Fax : (044) 4340 4811
Email : eqptsales.sr@esab.co.in

Central Regional Office
No. 218, Ashirvad
South Ambazari Road
Bajaj Nagar, Nagpur 440 010
Tel : (0712) 222 9547 / 48
Email : eqptsales.cr@esab.co.in

ESAB / www.esabindia.com

Regd & HO : ESAB INDIA LIMITED
13, Industrial Estate, III Main Road
Ambattur, Chennai – 600058
Email: info@esab.co.in

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= ISO 9001 =
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CABLE COVER

Full Head Protection

Cable Cover

Protection for Moving Cables

The ESAB Cable Covers are leather cable carriers offering protection to moving welding cables, control cables, hoses etc apart from keeping the work environment clean and ensuring a safer work environment.

- Protection for cables / hoses from spatter & abrasion
- Safe workplace - Consolidation of moving cables / hoses
- Easy & Quick fastening with Velcro
- Kevlar Stitch for heat resistance upto 150^0 C

Visit **www.**esabindia.com for more information.

2017-02-17 / ESAB reserves the right to alter specifications without prior notice.

Specifications / Technical Data	
Product Name	**Cable Cover**
Material	Split Leather
Width, inch	7.5
Length, Mtr	20
Temperature resistance, degree C	150

Ordering Information

Description	Part number	Description	Part number
Cable Cover	2001008007	HOFR Welding Cable,Cu 50sqmm	4600600166
HFR Welding Cable, Cu 50 sqmm	4600600182	HOFR Welding Cable,Cu 70sqmm	4600600167
HFR Welding Cable, Cu 70 sqmm	4600600183	HOFR Welding Cable,Cu 95sqmm	4600600170
HFR Welding Cable, Cu 95 sqmm	4600600184	Dura Hose 8mm Blue (Oxygen)	1300100193
HFR Welding Cable, Cu 120 sqmm	4600600185	Dura Hose 8mm Red (Acetylene)	1300100203

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Kolkata 700 088
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= OHSAS 18001 =

World leader in welding and cutting technology and systems

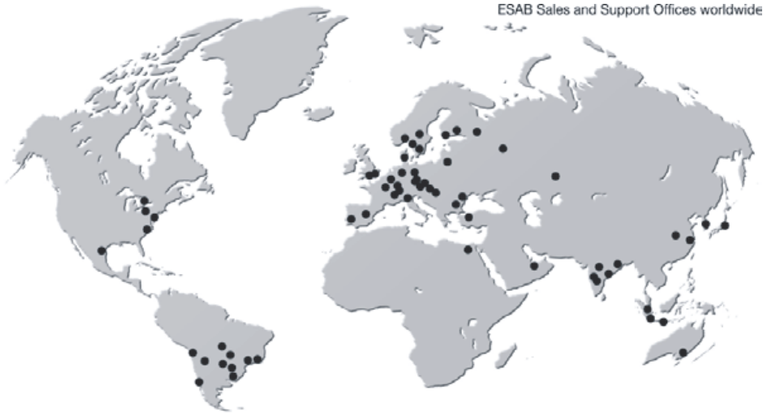
ESAB operates at the forefront of welding and cutting technology. Over one hundred years of continuous improvement in products and processes enables us to meet the challenges of technological advance in every sector in which ESAB operates.

Quality and environment standards

Quality and the environment are two key areas of focus. ESAB is one of few international companies to have achieved the new ISO 14001 standard in Environmental Management Systems across all our global manufacturing facilities.

At ESAB, quality is an ongoing process that is at the heart of all our production processes and facilities worldwide. Multinational manufacturing, local representation and an international network of independent distributors brings the benefits of ESAB quality and unrivalled expertise in materials and processes within reach of all our customers, wherever they are located.

ESAB Sales and Support Offices worldwide



* Includes manufacturing facilities of ESAB North America.
A wholly owned subsidiary of Anderson Group Inc.

Global solutions for local customers – everywhere.

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ESAB INDIA LIMITED

Registered and Head Office: 13, Industrial Estate, III Main Road, Ambattur, Chenni- 600058. Tel : 044-42281100 Fax : 044-42281107
Equipment Factories : Taratala, Kolkata and Irungattukottai. Chennai
Divisional Sales : Email : equipment.sales@esabindia.com

Eastern Regional Office
P41 Taratala Road
Kolkata 700088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esabindia.com

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501/502,5th Floor,Sagar Tech-B
Andheri Kurla Road,Saki Naka
Andheri East, Mumbai 400072
Tel : (022) 2851 7386
Fax : (022) 2852 4974
Email : eqptsales.wr@esabindia.com

Northern Regional Office
71/1 Najafgrh Road
New Delhi 110015
Tel : (011) 4142 7191
Fax : (011) 4142 7099
Email : eqptsales.nr@esabindia.com

Southern Regional Office
Karamuttu Centre,6th Floor
New No. 634, Anna Salai
Nandanamhennai 60035
Tel : (044) 4204 0294
Fax : (044) 4204 0289
Email : eqptsales.sr@esabindia.com

Central Regional Office
No. 218, Ashirvad South Ambazari Road
Bajaj Nagar, Nagpur 440010
Tel : (0712) 222 9547/ 48
Fax : (0712) 222 9549
Email : eqptsales.cr@esabindia.com

web: www.esabindia.com

RDPL/ 12-09

PPE & Welding Accessories Product Catalogue

2010

World

Since 1904, ESAB has been both a pioneer and leader in welding and cutting development technology. Today ESAB combines world leadership with global applications expertise.

leader

in welding and cutting technology and systems

With over 100 years of experience, and a presence in over 80 countries worldwide, ESAB is probably the most recognised brand in welding and cutting with a product portfolio, which includes:

Standard Welding and Cutting Equipment
Automatic Equipment
Automated Cutting Equipment
Welding Consumables
Personal Protective Equipment (PPE)
Welding Accessories

By continuously improving and developing our products and manufacturing processes, we meet the challenges of technological advance in every sector and market we operate in. Delivering quality products and services remains at the heart of everything we do across all our global sales and product operations.

Contents

Personal Protection

Helmets, Masks and Screens	2-3
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Personal Protection

ESAB offer a comprehensive range of Personal Protection Equipment, covering everything from head to foot, for both welding and cutting and general engineering applications. All ESAB products conform to all relevant EU legislation and standards.

As Health and Safety Standards improve year on year, so does ESAB's commitment to providing a product portfolio capable of meeting the ever increasing demands of the markets we serve. As you would expect from a leading supplier of welding and cutting solutions, the ESAB product range is second to none for quality and reliability.

Helmets, Masks & Screens

Origo™- Tech 9-13

The new stylish high-tech helmet design from ESAB. The new shell is available in striking high gloss colour, 'Yellow'.The helmet features the ESABcomfort headgear, whilst the light weight shell offers superior face, head, ear & neck protection, which allows for welding in all positions. The ESAB variable shade ADF uses the latest technology and has proven reliability. The ADF is screw retained and sits in a fully moulded light seal cradle, which also creates a slight convex curve on the front spatter lens for extra security and strength. The Helmet is delivered in an ESAB display box, fully assembled and ready to use.

Origo™-Tech 9-13 Helmet

The Origo™-Tech 9-13 features an external shade adjustment between DIN 9 and DIN 13. The delay and sensitivity can be adjusted from inside. The Origo™-Tech 9-13 is suitable for MIG/MAG, MMA and TIG (over 20 amps).

Origo™-Tech 9-13 Helmet	2001001001

Origo™Air

The Origo Air is a battery powered respiratory unit designed to fit the Origo-Tech welding helmets. The unit provides clean, filtered air to increase the comfort and safety for the welder. The Origo Air is delivered complete with an 8-hour battery, P3 filter, comfort pad, waist belt and an air hose with a Proban hose cover fitted. The unit is supplied with an intelligent charger, which will ensure a prolonged life time of the battery, by reducing the risk of over charging. The Origo Air is also equipped with a low flow alarm, which will give an audible signal when the filter is blocked, or the battery power is running low. The complete system is comfortable, lightweight and durable.

Origo Air Complete	2001002001
Origo Tech 9-13 Helmet for air	2001001002

Helmets, Masks & Screens

Eco-Arc Welding Helmets

The new Eco-Arc is the latest design in flip front passive welding helmets. With a light weight Poly Propylene shell and outstanding facial protection, the helmet is suitable for all position welding. The helmet also adopts the new Eco Headgear with 4 rake positions and 3 longitudinal adjustment positions for precise nose to shell adjustment. The helmet is supplied complete with outer protection lens, shade 11 mineral glass and the unique large internal protection glass.

Eco Arc Helmet (83 x 108mm)	2001001003

Hand Shield Armour

Flat fronted, flame retardant hand shield made from glass filled nylon having 1.8 mm shell thickness, weighing only 480 gms. This hand shield have a concealed handle with good thumb grip facility to protect hand. Lens aperture 83 x 108mm (4¼" x 3¼").

Hand Shield Armour (83 x 108mm)	2001001004

Respiratory Equipment

ESAB Air

ESAB always recommend the use of a full respiratory system for maximum protection against welding fume. For the ultimate protection and for use in the most aggressive of welding environments, ESAB offer Origo™ Air.

Origo™ Air

The Origo Air is a battery powered respiratory unit is designed to fit the Origo-Tech welding helmets. The unit provides clean/filtered air to increase the comfort and safety for the welder. The Origo Air is delivered complete with an 8-hour battery, P3 filter, comfort pad, waist belt and an air hose with a Proban hose cover fitted. This unit is supplied with an intelligent charger, which ensures a prolonged life time of the battery, by reducing the risk of over charging. The Origo Air is equipped with a low flow alarm, which will give an audible signal when the filter is blocked or the battery power is running low. The complete system is comfortable, lightweight and durable.

Origo Air Complete including Air Hose	2001002001

Origo™-Tech 9-13 Helmet for Air

The Origo™-Tech 9-13 features an external shade adjustment between DIN 9 and DIN 13. The delay and sensitivity can be adjusted from the inside. The Origo™-Tech 9-13 is suitable for MIG/MAG, MMA and TIG (over 20 amps). Now this helmet is ready to fit in Origo Air Unit.

Origo Tech 9-13 Helmet for air	2001001002

Respiratory Equipment

Filtair Disposable Masks

The ESAB Filtair series has been developed to improve the comfort of disposable respirators whilst maintaining an excellent face fit. Colour coding the range makes identification simple when varying levels of protection may be required. The mesh shell supports the filter media and prevents collapse onto the face and the preformed nose bridge provides comfortable fit eliminating constant adjustment. The filters use the latest filter technology to promote low breathing resistance and are approved to EN149:2001(meeting the 120mg load testing). The Filtair is available as a pre-moulded and flat version. Depending on the protection level needed and the breathing resistance some models are equipped with a valve. All the masks are fitted with buckle fastening which also allows the wearer to adjust the straps accordingly

ESAB Filtair Flat A-1

This mask provide P1 protection and is suitable to wear during general dusty duties.

ESAB Filtair Flat P1 ‘White’	2001002002

ESAB Filtair Flat A-2CV

This mask provide P2 protection and is equipped with a valve to reduce heat and moisture build up inside the respirator. The carbon layer takes out bad odours. Suitable to wear during welding, brazing,soldering, painting (brush applied), gluing (brush applied) and polyester resins (hand mix).

ESAB Filtair Flat P2CV ‘Grey’	2001002003

Spectacles, Goggles & Visors

ESAB Eco Safety Spectacles

These stylish spectacles are used for drilling, chipping and metalworking, they have a sporty style and are extremely lightweight. Available in two different lens configurations. All lens configurations provide protection against dangerous UV radiation. CE approved according to EN 166-F.

ESAB Eco Smoked

The smoked lens is suitable when working in strong ambient light.

ESAB Eco Smoked	2001003003

ESAB Eco Amber

The Amber (yellow lens) enhances the light. This is suitable when the ambient light is not sufficient

ESAB Eco Amber	2001003004

Spectacles, Goggles & Visors

ESAB Goggles & Visors

ESAB Welding Goggle

New snugfit PVC make one piece Bocal type protective goggle with ventilators, holding rings with clear lense for gas welding, brazing and gas cutting.

Welders Goggle FG2	2001003002

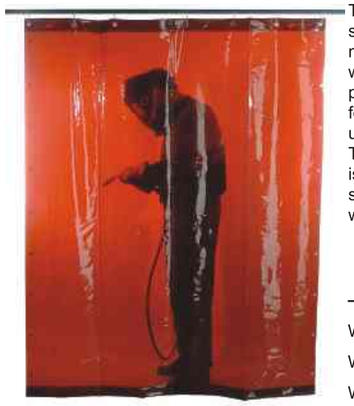
ESAB Face Shield

Safety face shield is made of 1.8 mm thick, 6” long & 14” wide, colourless, transparent acrylic. This tilting visor is to protect forehead, eyes, cheeks, nose and mouth from flying particles, sprays or splashes of hazardous liquids.

Face Shield	2001003001

Welding Curtains

Welding Curtains



Three colour types are available and all three can be supplied as standard curtains. The self-extinguishing material provides good protection from dangerous welding radiation. The curtains are equipped with press-studs for easy, strong fastening and they are folded at the top and the bottom to withstand harsh use. All approved according to prEN 1598. The mounting rings come in a package of seven, which is enough to mount any of the curtains (supplied in a standard length of 1.8m x 1.4m). Rings are included when ordering any of the curtains.

Welding curtain, Dark Red	2001004001
Welding curtain, Green Transparent	2001004002
Welding curtain, Dark Green (DIN 9)	2001004003

Welding Gloves

Welding Gloves MIG/MAG/MMA & General Handling

Test against mechanical stress such as abrasion, cut, tear and puncture.

Test for thermal performance such as exposure to an open flame, contact heat, convective heat, radiant heat, small and large splashes of molten metal.

Welding Hand Gloves

A welding glove made of hard-wearing, heat-resistant cow-split leather,1.3mm thick. Reinforced wing thumb fully welted KEVLAR stitched. This Glove is used for MIG/MAG/MMA Welding.

Welding Hand Gloves	2001005001

Heavy Duty Hand Gloves

A hard wearing work glove made of cow grain leather with a cotton lining for comfort. This Glove is used for general working purpose .

Heavy Duty Hand Gloves	2001005002

Safety Footwear

Safety Footwear

All ESAB safety footwear is tested and approved according to EN 345. Depending on application, footwear should always provide appropriate protection, EN 345 gives the following guidelines:

Safety shoes and boots

Key to symbols:

- SB — Safety Basic to EN345 200 joules toe protection
- S1 — Safety Basic, antistatic and energy absorbing heel
- S2 — Safety Basic, antistatic, energy absorbing heel and water resistant upper
- S3 — Safety Basic, antistatic, energy absorbing heel, water resistant upper and steel midsole
- Antistatic
- Steel Midsole

ESAB Safety Shoe S3

Offers the comfort of a standard shoe and full protection according to S3. It is easy to 'don' and the foam laminated cambrelle lining makes it very comfortable to wear. The shoe is water and oil resistant and the seams are reinforced with 'Satra' standard nylon threads for maximum durability. The moulded PU sole offers a soft upper part with front 'bumper' and arch support,whilst the part in direct contact with the ground offers extremely high slip resistance. The shoe is equipped with shock absorption system to prevent ankle spraining risks. Also the sole is heat resistant up to 110°C.

ESAB safety shoe, size 5	2001006001
ESAB safety shoe, size 6	2001006002
ESAB safety shoe, size 7	2001006003
ESAB safety shoe, size 8	2001006004
ESAB safety shoe, size 9	2001006005
ESAB safety shoe, size 10	2001006006
ESAB safety shoe, size 11	2001006007

Welding Tools and Accessories

A range of quality tools and accessories for welding, cutting and general engineering applications. All our welding tools and accessories conform to the relevant EU legislation and IS standards.

Welding Cables

Technical Data

- Harmonised Welding Cable with general purpose Rubber Sheathing as Type SE 1
  NBR-PVC HOFR Sheathing as Type SE 3 to IS : 6380/84
- Conductor resistance in accordance to IS : 8130/84.
- Conductor resistance factor at +20°C - see technical catalogue
- Admissible working temperature at the conductor
  General Purpose: + 80°C
  HOFR/NBR-PVC Type: +100°C

Now Heat,Fire & Wear resistant at a price of an ordinary cable

Cable Structure

- Plain / Tinned annealed Copper / Plain Aluminium conductor extra fine stranded & bunched in accordance to IS : 8130/84.
- Melinex tape used as separator over the conductor for better electric conductivity.
- Rubber/NBR jacketing as per IS : 6380/84.
- With marking of brand name & cross section on each mtr.
- Testing of cable carried out as per IS : 9857/90 at our in house facility
- Standard 100 mtr. length supplied in a eco-friendly fibre drum

Application

- Rubber insulated flexible welding cable are used to connect Welding Machine & for better welding proficiency.
- Used in Automabile industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction, Coal Mines etc.
- The robust construction makes these cables highly durable.

Safety Requirements

- Coiled welding cable must always be spread out before using to avoid overheating in use.
- Cables must not be spliced within 10 feet of the holder.
- Welding cable must never be coiled or looped around the body of the worker
- Cables with damaged insulation must be replaced.

Cable Welding CU (35 Sq. mm.)	4600600161
Cable Welding CU (50 Sq. mm.)	4600600162
Cable Welding CU (70 Sq. mm.)	4600600163
Cable Welding CU (95 Sq. mm.)	4600600164
Cable Welding CU (120 Sq. mm.)	4600600165
Cable Welding CU (50 Sq. mm.) HOFR	4600600166
Cable Welding CU (70 Sq. mm.) HOFR	4600600167
Cable Welding CU (95 Sq. mm.) HOFR	4600600170
Cable Welding AL (70 Sq. mm.)	4600600168
Cable Welding AL (120 Sq. mm.)	4600600169
Cable Welding AL (70 Sq. mm.) HOFR	4600600171
Cable Welding AL (120 Sq. mm.) HOFR	4600600172

Electrode Holders & Clamps

Holder Handycool HC 600

This is crocodile style type 'B' electrode holder, which is made from black phenolic resin insulated jaws and black DMC handle. This holder is fully insulated for extra safety and brass jaws ensures good contact. It is suitable for cables up to Al 120 sq. mm./Cu 70 sq. mm. and used in heavy duty welding application.

Handicool HC 600, 600A	2002001001

Holder Confort 600

An open head style type 'B' electrode holder with fully insulated head to resist spatter and sturdy handle, made of fibre glass poly amide 66 – 33 for heavy duty application. Insulation resistant above 1 MΩ & Dielectric strength up to 3000 volts. This holder is suitable for cables up to Al 120 sq. mm./Cu 70 sq. mm. and CE certified as per European standard EN 60974-11.

Confort 600, 600A	2002001002

Holder Handy 400

A screw style 'A' type electrode holder with fully insulated head and handle for medium duty application. Handle is made of synthetic rubber for comfortable grip and tip insulator is made of DMC to resist weld spatter. Insulation resistant above 1 MΩ & Dielectric strength up to 3000 volts. This holder is CE certified as per European standard EN 60974-11.

Handy 400, 400A	2002001003

Heavy Duty Earth Clamp 600

An earth clamp made of zinc coated steel with copper plated jaws and suitable copper mesh that provides good contact with the work piece. Jaw opening is up to 60mm. and is suitable for heavy duty application.

Heavy Duty Earth Clamp, 600A	2002002001

Magnetic Earth Clamp 600

Magnetic earth clamp with strong gripping power that permits attachment to any ferrous object. These clamps provide a large contact area with less overheating – thanks to fewer junctions. Flat edges ensure perfect grip on the job and strong handle to pull it out easily. Magnetic earth clamp is very convenient to place anywhere and start welding instantly.

Magnetic Earth Clamp, 600 A	2002002002

CERTIFICATE

TÜV CERT

Management system as per
DIN EN ISO 9001 : 2000

In accordance with TÜV CERT procedures, it is hereby certified that

ESAB INDIA LTD. – EQUIPMENT FACTORY
P-41, Taratala Road,
Kolkata – 700 088, India

applies a quality system in line with the above standard for the following scope

Design, Manufacture and Supply of GAS, ARC Welding / Cutting Equipment

Certificate Registration No. **44 100 084004-E3** Valid until **07.01.2011**
Audit Report No. **2.5-3777/2007**

S.K.Kulkarni
TÜV CERT Certification Body
at TÜV NORD CERT GmbH

Mumbai, **08.01.2008**

This certification was conducted in accordance with the TÜV CERT auditing and certification procedures and is subject to regular surveillance audits.
TUV India Pvt. Ltd., 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuvindia.co.in

IAF
TGA-ZM-30-96-00

TÜV NORD

DNV

DET NORSKE VERITAS
MANAGEMENT SYSTEM CERTIFICATE

Certificate No. 2006-SKM-AE-1093 / 2008-SKM-AHSO-143

This is to certify that

ESAB GROUP

WORLDWIDE

For specific sites see Appendix

has been found to conform to the Management System Standards:

ISO 14001:2004, OHSAS 18001:2007

This Certificate is valid for:

Development, design, production, sales and services of welding and cutting products

Initial Certification date:
2008-01-11 (OHSAS)
2006-01-22 (14001)

This Certificate is valid until:
2011-01-31 (OHSAS)
2012-01-31 (14001)

SWEDAC ACKREDITERING
1053
ISO/IEC 17021

Place and date:
Stockholm, 2009-02-09

for the Accredited Unit:
DNV CERTIFICATION AB,
SWEDEN

The audit has been performed under the supervision of:
Hans Hallberg / Mats Nilsson
Lead Auditor

Jimmy Nilsson
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.

DET NORSKE VERITAS, BOX 6046, 171 06 SOLNA, SWEDEN. TEL: +46 8 587 940 00 FAX: +46 8 651 70 43

HOLDER CONFORT 200/ 600

Fully Insulated Electrode Holders

HOLDER CONFORT 200/ 600

Rugged and Safe

- Fully insulated head for safety & resistance to spatter
- Fully insulated heavy duty handle made of fibre glass reinforced plastic
- Insulation Resistance above 1MΩ & Dielectric strength upto 3000V
- Ergonomic design with easy palm fit

Visit esab.com for more information.

Specifications / Technical data

	Confort 200	Confort 600
Rating, A	200	600
Length, mm	210	245
Max. electrode dia, mm	3.15	6.3
Weight, g	394	475

Application

- Confort 200 - best suited for use with single phase portable inverter machines
- Confort 600 – suitable for all heavy duty applications

Ordering Information

Description	Part number
Holder Confort 200	2002001007
Holder Confort 600	2002001002

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ESAB Eco-Arc II

Light-weight Flip-up Welding Helmet

ESAB Eco-Arc II

Comfort and Contemporary

ESAB Eco-Arc II is a passive flip-up welding helmet with a light weight poly-propylene shell. The helmet is designed for outstanding facial protection for welding in all positions.

- Light-weight (484g) Shell with contemporary look
- Three Flip-front options
- Full facial protection in all welding positions with 5 rake position head-gear
- Simplified head-gear for ease of adjustments
- Light-weight head-gear with sweat band

Visit **www.**esabindia.com for more information.

2017-10-16 / ESAB reserves the right to alter specifications without prior notice.

Specifications / Technical Data

	Eco-Arc II (83x108mm)	Eco-Arc II (90x110mm)
Viewing area, mm	83 x 108	90 x 110
Shell material	Poly-Propylene	Poly-Propylene
Head-gear material	Nylon	Nylon
Weight, g (complete helmet)	484	484
Standards	CE, EN175	CE, EN175

Ordering Information

Description	Part number	Description	Part number
Eco-Arc II (83x108mm) Helmet	0700 000 986	Eco-Arc II (90x110mm) Helmet	0700 000 762

Note: Eco-Arc II is delivered with head-gear, Outer protection lens, mineral glass Filter lens shade 11, Unique Internal protection lens and Lens retatining clip

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502, 5th Floor, Sagar Tech-B
Andheri Kurla Road, Saki Naka
Andheri East, Mumbai 400 072
Tel : (022) 2851 7386
Email : eqptsales.wr@esab.co.in

Northern Regional Office
239 – 240, DLF Tower
Shivaji Marg, near Karampura
Crossing, New Delhi 110 015
Tel : (011) 4142 7091
Email : eqptsales.nr@esab.co.in

Southern Regional Office
13, Industrial Estate, III Main Road,
Ambattur, Chennai – 600 058
Tel : (044) 4340 4809 / 10
Fax : (044) 4340 4811
Email : eqptsales.sr@esab.co.in

Central Regional Office
No. 218, Ashirvad
South Ambazari Road
Bajaj Nagar, Nagpur 440 010
Tel : (0712) 222 9547 / 48
Email : eqptsales.cr@esab.co.in

ESAB / www.esabindia.com

Regd & HO : ESAB INDIA LIMITED
13, Industrial Estate, III Main Road
Ambattur, Chennai – 600058
Email: info@esab.co.in

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

ESAB Electrode Holders

Safety & Comfort

Handicool HC 300

Handicool HC 600

Confort 200

Confort 600

Safety & Comfort

ESAB's range of Electrode Holders combine safety features with user comfort to welders for continuous welding applications.

- Fully Insulated Jaws & Handle for maximum Safety
- Insulation Resistance above 1MΩ & Dielectric strength upto 3000V
- Ergonomic design with easy palm fit for continuous hassle free usage
- Unique cable connection design to ensure minimal heat on handle

Visit **www.**esabindia.com for more information.

2017-10-17 / ESAB reserves the right to alter specifications without prior notice.

Specifications / Technical data

	Handicool HC300	Handicool HC600	Holder Confort 200	Holder Confort 600
Rating, A	300	600	200	600
Material (Handle)	DMC	DMC	Polyamide	Polyamide
Material (Jaw)	Zinc Plated Copper	Zinc Plated Copper	Brass	Brass
Length, mm	200	260	210	245
Cable Cu / Al, sq mm	35 / 50	70 / 120	35 / 50	70 / 120
Weight, gms	415	650	394	475

Ordering Information

Description	Part number	Description	Part number
Handicool HC 300	2002 001 008	Holder Confort 200	2002 001 007
Handicool HC 600	2002 001 001	Holder Confort 600	2002 001 002

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
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501/502, 5th Floor, Sagar Tech-B
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COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

ESAB Air

ESAB always recommend the use of a full respiratory system for maximum protection against welding fume. For the ultimate protection and for use in the most aggressive of welding environments, ESAB offer Origo™ Air.

Origo™ Air

The Origo Air is a battery powered respiratory unit is designed to fit the Origo-Tech welding helmets. The unit provides clean/filtered air to increase the comfort and safety for the welder. The Origo Air is delivered complete with an 8-hour battery, P3 filter, comfort pad, waist belt and an air hose with a Proban hose cover fitted. This unit is supplied with an intelligent charger, which ensures a prolonged life time of the battery, by reducing the risk of over charging. The Origo Air is equipped with a low flow alarm, which will give an audible signal when the filter is blocked or the battery power is running low. The complete system is comfortable, lightweight and durable.

Origo Air Complete including Air Hose	2001002001

Origo™-Tech 9-13 Helmet for Air

The Origo™-Tech 9-13 features an external shade adjustment between DIN 9 and DIN 13. The delay and sensitivity can be adjusted from the inside. The Origo™-Tech 9-13 is suitable for MIG/MAG, MMA and TIG (over 20 amps). Now this helmet is ready to fit in Origo Air Unit.

Origo Tech 9-13 Helmet for air	2001001002

PPE & Welding Accessories

Welding Tools and Accessories

A range of quality tools and accessories for welding, cutting and general engineering applications. All our welding tools and accessories conform to the relevant EU legislation and IS standards.

WELDING CABLES

Technical Data

- Harmonised Welding Cable with general purpose Rubber Sheathing as Type SE 1
  NBR-PVC HOFR Sheathing as Type SE 3 to IS : 6380/84
- Conductor resistance in accordance to IS : 8130/84.
- Conductor resistance factor at +20°C - see technical catalogue
- Admissible working temperature at the conductor
  General Purpose: + 80°C
  HOFR/NBR-PVC Type: +100°C

Now Heat, Fire & Wear resistant at a price of an ordinary cable

Cable Structure

- Plain / Tinned annealed Copper / Plain Aluminium conductor extra fine stranded & bunched in accordance to IS : 8130/84.
- Melinex tape used as separator over the conductor for better electric conductivity.
- Rubber/NBR jacketing as per IS : 6380/84.
- With marking of brand name & cross section on each mtr.
- Testing of cable carried out as per IS : 9857/90 at our in house facility
- Standard 100 mtr. length supplied in a eco-friendly fibre drum

Application

- Rubber insulated flexible welding cable are used to connect Welding Machine & for better welding proficiency.
- Used in Automabile industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction, Coal Mines etc.
- The robust construction makes these cables highly durable.

Safety Requirements

- Coiled welding cable must always be spread out before using to avoid overheating in use.
- Cables must not be spliced within 10 feet of the holder.
- Welding cable must never be coiled or looped around the body of the worker
- Cables with damaged insulation must be replaced.

Cable Welding CU (35 Sq. mm.)	4600600161
Cable Welding CU (50 Sq. mm.)	4600600162
Cable Welding CU (70 Sq. mm.)	4600600163
Cable Welding CU (95 Sq. mm.)	4600600164
Cable Welding CU (120 Sq. mm.)	4600600165
Cable Welding CU (50 Sq. mm.) HOFR	4600600166
Cable Welding CU (70 Sq. mm.) HOFR	4600600167
Cable Welding CU (95 Sq. mm.) HOFR	4600600170
Cable Welding AL (70 Sq. mm.)	4600600168
Cable Welding AL (120 Sq. mm.)	4600600169
Cable Welding AL (70 Sq. mm.) HOFR	4600600171
Cable Welding AL (120 Sq. mm.) HOFR	4600600172

ELECTRODE HOLDERS & CLAMPS

Holder Handycool HC 600

This is crocodile style type 'B' electrode hold er, which is made from black phenolic resin insulated jaws and black DMC handle. This holder is fully insulated for extra safety and b rass jaws ensures good contact. It is suitable for cables up to Al 120 sq. mm./Cu 70 sq. mm. and used in heavy duty welding application.

Handicool HC 600, 600A	2002001001

Holder Confort 600

An open head style type 'B' electrode holder with fully insulated head to resist spatter and sturdy handle, made of fibre glass poly amide 66 – 33 for heavy duty application. Insulation resistant above 1 MΩ & Dielectric strength up to 3000 volts. This holder is suitable for cables up to Al 120 sq. mm./Cu 70 sq. mm. and CE certified as per European standard EN 60974-11.

Confort 600, 600A	2002001002

Heavy Duty Earth Clamp 600

An earth clamp made of zinc coated steel with copper plated jaws and suitable copper mesh that provides good contact with the work piece. Jaw opening is up to 60mm. and is suitable for heavy duty application.

Heavy Duty Earth Clamp, 600A	2002002001

Magnetic Earth Clamp 600

Magnetic earth clamp with strong gripping power that permits attachment to any ferrous object. These clamps provide a lar ge contact area with less overheating – thanks to fewer junctions. Flat edges ensure perfect grip on the job and strong handl e to pull it out easily. Magnetic earth clamp is very convenient to place anywhere and start welding instantly.

Magnetic Earth Clamp, 600 A	2002002002

Personal Protection

ESAB offer a comprehensive range of Personal Protection Equipment, covering everything from head to foot, for both welding and cutting and general engineering applications. All ESAB products conform to all relevant EU legislation and standards.

As Health and Safety Standards improve year on year, so does ESAB's commitment to providing a product portfolio capable of meeting the ever increasing demands of the markets we serve.
As you would expect from a leading supplier of welding and cutting solutions, the ESAB product range is second to none for quality and reliability.

Origo™- Tech 9-13

The new stylish high-tech helmet design from ESAB. The new shell is available in striking high gloss colour, 'Yellow'.The helmet features the ESABcomfort headgear, whilst the light weight shell offers superior face, head, ear & neck protection, which allows for welding in all positions. The ESAB variable shade ADF uses the latest technology and has proven reliability. The ADF is screw retained and sits in a fully moulded light seal cradle, which also creates a slight convex curve on the front spatter lens for extra security and strength. The Helmet is delivered in an ESAB display box, fully assembled and ready to use.

Origo™-Tech 9-13 Helmet

The Origo™-Tech 9-13 features an external shade adjustment between DIN 9 and DIN 13. The delay and sensitivity can be adjusted from inside. The Origo™-Tech 9-13 is suitable for MIG/MAG, MMA and TIG (over 20 amps).

Origo™-Tech 9-13 Helmet	2001001001

Eco-Arc Welding Helmets

The new Eco-Arc is the latest design in flip front passive welding helmets. With a light weight Poly Propylene shell and outstanding facial protection, the helmet is suitable for all position welding. The helmet also adopts the new Eco Headgear with 4 rake positions and 3 longitudinal adjustment positions for precise nose to shell adjustment.The helmet is supplied complete with outer protection lens, shade 11 mineral glass and the unique large internal protection glass.

Eco Arc Helmet (83 x 108mm)	2001001003

Hand Shield Armour

Flat fronted, flame retardant hand shield made from glass filled nylon having 1.8 mm shell thickness, weighing only 480 gms. This hand shield have a concealed handle with good thumb grip facility to protect hand. Lens aperture 83 x 108mm (4¼" x 3¼").

Hand Shield Armour (83 x 108mm)	2001001004

ESAB Air

ESAB always recommend the use of a full respiratory system for maximum protection against welding fume. For the ultimate protection and for use in the most aggressive of welding environments, ESAB offer Origo™ Air.

Origo™ Air

The Origo Air is a battery powered respiratory unit is designed to fit the Origo-Tech welding helmets. The unit provides clean/filtered air to increase the comfort and safety for the welder. The Origo Air is delivered complete with an 8-hour battery, P3 filter, comfort pad, waist belt and an air hose with a Proban hose cover fitted. This unit is supplied with an intelligent charger, which ensures a prolonged life time of the battery, by reducing the risk of over charging. The Origo Air is equipped with a low flow alarm, which will give an audible signal when the filter is blocked or the battery power is running low. The complete system is comfortable, lightweight and durable.

Origo Air Complete including Air Hose	2001002001

Origo™-Tech 9-13 Helmet for Air

The Origo™-Tech 9-13 features an external shade adjustment between DIN 9 and DIN 13. The delay and sensitivity can be adjusted from the inside. The Origo™-Tech 9-13 is suitable for MIG/MAG, MMA and TIG (over 20 amps). Now this helmet is ready to fit in Origo Air Unit.

Origo Tech 9-13 Helmet for air	2001001002

Filtair Disposable Masks

The ESAB Filtair series has been developed to improve the comfort of disposable respirators whilst maintaining an excellent face fit. Colour coding the range makes identification simple when varying levels of protection may be required. The mesh shell supports the filter media and prevents collapse onto the face and the preformed nose bridge provides comfortable fit eliminating constant adjustment. The filters use the latest filter technology to promote low breathing resistance and are approved to EN149:2001(meeting the 120mg load testing). The Filtair is available as a pre-moulded and flat version. Depending on the protection level needed and the breathing resistance some models are equipped with a valve. All the masks are fitted with buckle fastening which also allows the wearer to adjust the straps accordingly

ESAB Filtair Flat A-1

This mask provide P1 protection and is suitable to wear during general dusty duties.

ESAB Filtair Flat P1 'White'	2001002002

ESAB Filtair Flat A-2CV

This mask provide P2 protection and is equipped with a valve to reduce heat and moisture build up inside the respirator. The carbon layer takes out bad odours. Suitable to wear during welding, brazing,soldering, painting (brush applied), gluing (brush applied) and polyester resins (hand mix).

ESAB Filtair Flat P2CV 'Grey'	2001002003

ESAB Eco Safety Spectacles

These stylish spectacles are used for drilling, chipping and metalworking, they have a sporty style and are extremely lightweight. Available in two different lens configurations. All lens configurations provide protection against dangerous UV radiation. CE approved according to EN 166-F.

ESAB Eco Smoked

The smoked lens is suitable when working in strong ambient light.

ESAB Eco Smoked	2001003003

ESAB Eco Amber

The Amber (yellow lens) enhances the light. This is suitable when the ambient light is not sufficient

ESAB Eco Amber	2001003004

ESAB Eco Clear

The clear lens is suitable when working indoors, providing general eye protection.

ESAB Eco Clear	2001003005

ESAB Goggles & Visors

ESAB Face Shield

Safety face shield is made of 1.8 mm thick, 7'' long & 14'' wide colourless, transparent acrylic. This tilting visor is to protect forehead, eyes, cheeks, nose and mouth from flying particles, sprays or splashes of hazardous liquids.

Face Shield	2001003001

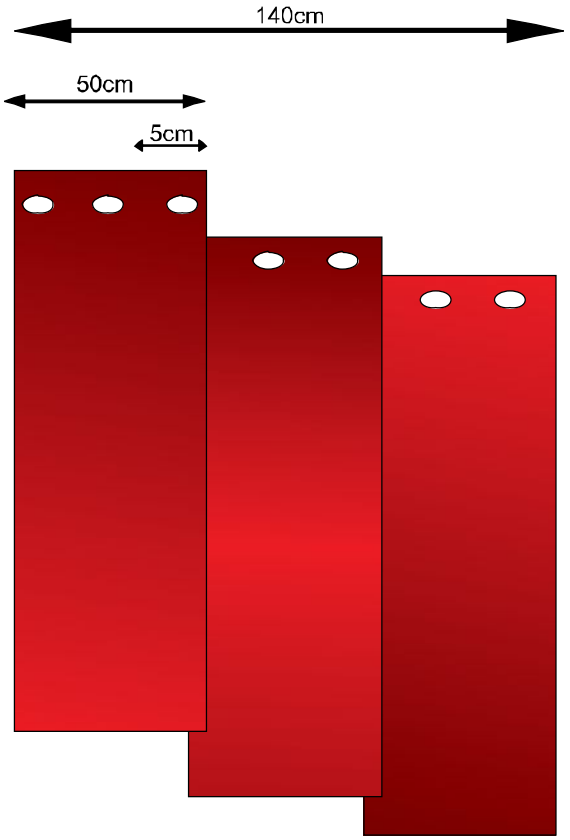
ESAB Welding Goggle

New snugfit PVC make one piece Bocal type protective goggle with ventilators, holding rings with clear lense for gas welding, brazing and gas cutting.

Welders Goggle FG2	2001003002

Welding Curtains

Three colour types are available and all three can be supplied as standard curtains. The self-extinguishing material provides good protection from dangerous welding radiation. The curtains are equipped with press-studs for easy, strong fastening and they are folded at the top and the bottom to withstand harsh use. All approved according to prEN 1598. The mounting rings come in a package of seven, which is enough to mount any of the curtains (supplied in a standard length of 1.8m x 1.4m). Rings are included when ordering any of the curtains.



Welding curtain, Dark Red	2001004001
Welding curtain, Green Transparent	2001004002
Welding curtain, Dark Green (DIN 9)	2001004003
Welding strip curtain, dark red, 1.8 x 1.4m	2001004004
Welding strip curtain, green transparent (DIN 6),1.8 x 1.4m	2001004005
Welding strip curtain, dark green (DIN 9), 1.8 x 1.4m	2001004006

Welding Gloves MIG/MAG/MMA & General Handling

Test against mechanical stress such as abrasion, cut, tear and puncture.

Test for thermal performance such as exposure to an open flame, contact heat, convectiv radiant heat, small and large splashes of molten metal.

Welding Hand Gloves

A welding glove made of hard-wearing, heat resisting cl leather, fully lined and KEVLAR stitched. This glove is for MIG/ MAG/MMA welding.

Welding Hand Gloves	20010

Heavy Duty Hand Gloves

A hard wearing working glove made of heavy duty cl leather with comfort lining and rubberised cuff. This gl used for general working and handling purpose.

Heavy Duty Hand Gloves	20010(

TIG Professional Hand Gloves

High dexterity, gunn cut, soft nappa grain le TIG welders gauntlet, with 15 cm heat res chrome leather cuff. KEVLAR stitched.

TIG Professional Hand Gloves	20010(

WELDING CLOTHING

Welding Aprons

Esab protective aprons are made of superior quality split leather and distribute the weight effectively. They are KEVLAR stitched and re-inforced with rivets. Leather straps are provided for strength.

Welding Apron	2001007001

Welding Sleeve

Split leather sleeves are KEVLAR stitched and with a total length of 47 cm. Equipped with elasticated cuff, comfortable knitted wrist and velcro arm fastener.

Welding sleeve	2001007002

Welding Leg Guard

Esab welding leg guards are made of high quality split leather to protect the footwear during welding. The leg guards are KEVLAR stitched, fastened using velcro and 15 cm long.

Welding Leg Guard	2001007003

WELDING BLANKETS

Welding Blankets

The ESAB Welding blankets are produced using heat and flame resistant fabrics. The blankets provide excellent protection from grinding/welding sparks, slag and drops of molten metal. ESAB offer a wide range of blankets with different characteristics and in many different sizes. The blankets are colour coded.

When selecting the most suitable blanket for the application, the following factors should be considered:

Positioning of the blanket – Sparks hitting a blanket, which is positioned horizontally, will put extra stress on the material and a stronger and more heat resistant blanket should be used.

Work application – For light duty welding or cutting a thinner and less heat resistant blanket can be used. For heavy duty welding or cutting when the blanket is exposed to drops of molten metal then a more durable blanket should be used.

Flexibility – The weight of the blanket indicates how flexible the fabric is. A blanket of less weight makes it easier to protect small pipes and components where it's necessary to wrap the blanket.

ESAB Safety Shoe S1

EN compliant Safety Footwear for General Engineering, Chemical, Cement, Construction & Service Industry. Breathable Full Grain Leather Upper, Comfortable, Elegant. Light Weight. Imported Mesh Lining. Imported 200 joules Steel Toe cap EN 12568. Moulded full socks. Direct Injected lightweight PU Sole. Penetration Resistant steel Mid Sole. Antistatic. Slip Resistant (SRA Compliant). Meet EN 345 / IS 15298 (II) which gives the following guidelines:

Key to symbols:

- SB — Safety Basic to EN345 200 joules toe protection
- S1 — Safety Basic, antistatic and energy absorbing heel
- Antistatic
- Steel Midsole

ESAB safety shoe, size 5	2001006001
ESAB safety shoe, size 6	2001006002
ESAB safety shoe, size 7	2001006003
ESAB safety shoe, size 8	2001006004
ESAB safety shoe, size 9	2001006005
ESAB safety shoe, size 10	2001006006
ESAB safety shoe, size 11	2001006007

QMS CERTIFICATES

CERTIFICATE TUVNORD

Management system as per
DIN EN ISO 9001 : 2008

ESAB INDIA LIMITED
(WELDING CONSUMABLES FACTORIES)
Plot No.13, 3rd Main Road, Ambattur Industrial Estate,
Ambattur, Chennai – 600 058, Tamilnadu,
India

Manufacture and Supply of Manual Metal Arc Welding Electrodes, Blended Powders and Fluxes for Submerged Arc Welding

CERTIFICATE TUVNORD

Management system as per
DIN EN ISO 9001 : 2008

ESAB INDIA LIMITED
(WELDING CONSUMABLES FACTORIES)
G-33, SIPCOT Industrial Park, Irungattukottai, Pasnallur Post,
Sriperumbudur Taluk, Kancheepuram Dist. – 602 105,
Tamilnadu, India

Manufacture and Supply of Manual Metal Arc Welding Electrodes, Blended Powders and Flux Cored Arc Welding Wires

CERTIFICATE TUVNORD

Management system as per
DIN EN ISO 9001 : 2008

ESAB INDIA LIMITED
(WELDING CONSUMABLES FACTORIES)
B.T. Road, P.O.Sepoy, Khardah,
24, Parganas (North), Kolkatta – 700 116,
India

Manufacture and Supply of Manual Metal Arc Welding Electrodes, Wires for Submerged Arc Welding and MIG/MAG Welding, Blended Powders and Gas Welding Fluxes

CERTIFICATE TUVNORD

Management system as per
DIN EN ISO 9001 : 2008

ESAB INDIA LIMITED
(WELDING CONSUMABLES FACTORIES)
B-28, MIDC Industrial Area,
Kalmeshwar – 441 501, Nagpur,
India

Manufacture and Supply of Wires for Submerged Arc Welding and MIG/MAG Welding, Filler Rods for TIG Welding

DET NORSKE VERITAS

MANAGEMENT SYSTEM CERTIFICATE

ESAB GROUP

WORLDWIDE

Development, design, production, sales and services of welding and cutting products

DET NORSKE VERITAS

APPENDIX TO CERTIFICATE

ESAB GROUP

(Main locations within brackets)

CONTACT INFORMATION

Welding Consumables Division: Chennai			email: wcmkt@esab.co.in Ph: +91-44-43404600
Equipment Division: Irungattukottai			email: info@esab.co.in Ph: +91-44-47114000
Equipment Division: Kolkata			email: info@esab.co.in Ph: +91-33-24014517/18/19
Reclamation Consumables Division: Kolkata			email: info@esab.co.in Ph: +91-33-25532897
Regional offices:	**NORTH**	Delhi	Ph: +91-11-41427090/94
	EAST	Kolkata	Ph: +91-33-25532897/25838005
	WEST	Mumbai	Ph: +91-22-28516742/7409/9386
	SOUTH	Chennai	Ph: +91-44-42957883/884/885
	CENTRAL	Nagpur	Ph: +91-712-2229547/48

STRENGTH THROUGH **COOPERATION**

ESAB®

esabindia.com

World leaders in welding and cutting technology and systems.

ESAB operates at the forefront of welding and cutting technology. Over one hundred years of continuous improvement in products and processes enables us to meet the challenges of technological advnce in every sector in which ESAB operates.

Quality and environment standards

Quality, the environment and safety are three key areas of focus. ESAB is one of few international companies to have achieved the ISO 14001 and OHSAS 18001 standards in Environmental, Health & Safely Management Systems across all our global manufacturing facilities.

At ESAB, quality is an ongoing process that is at the heart of all our production processes and facilities worldwide.

Multinational manufacturing, local representation and an international network of independent distributors brings the benefits of ESAB quality and unrivalled expertise in materials and processes within reach of all our customers, wherever they are located.

ESAB Sales and Support Offices worldwide

* Includes manufacturing facilities of ESAB North Amercia.
A wholly owned subsidiary of Anderson Group Inc.

STRENGTH THROUGH **COOPERATION**

ESAB®

ESAB INDIA LIMITED

Regd. and Head Office:
Plot No. 13, 3rd Main Road Industrial Estate
Ambatur, Chennai 600 058.
email : info@esab.co.in www.esabindia.com
Tel: +91-44-42281100 Fax: +91-44-42281150

ESAB FR Welding Jacket

FR Clothing Range form ESAB

The ESAB FR Welders Jacket has been developed by welders for welders. The garment conforms to the latest ISO welding standards, ensuring superior protection, performance and comfort.

The Phoenix FR material is inherently flame retardant and high performing meaning that the jacket will maintain its FR properties during the lifetime of the product.

The zipper is well protected and the design of the jacket will ensure good moveability. The stand up collar with velcro fastening will cover that “easy to burn” area on the neck. With the velcro wrist adjustment it’s easy to get the sleeve inside the welding glove.

- Phoenix FR flame retardant inherently fabric - protection through the life of the product
- Stand up collar – protecting the neck
- Hard wearing modacrylic blend fabric
- Two Velcro fastened patch pockets
- Velcro fastened storm flap
- Two lower patch pockets with side access
- Pocket flaps and Velcro fastenings
- Velcro adjustment on sleeve cuffs

ISO Approvals

ISO 11612 FLAME RETARDANT

ISO 11611 WELDING STANDARD

ANTI STATIC

Technical Data

EN ISO 11612 A B1 C1 2008 FLAME RETARDANT & HEAT
EN ISO 11611 CLASS 1 A1 2007 CLASS 1 WELDING
EN1149-3:2004 ANTI STATIC
EN1149-5:2008
EN340 EUROPEAN SIZE CHART

Ordering information

FR Jacket Small 38''	0700 010 358
FR Jacket Medium 40''	0700 010 359
FR Jacket Large 42''	0700 010 360
FR Jacket X Large 44''	0700 010 361
FR Jacket XX Large 46''	0700 010 362

Washing Instructions

Sizing Chart

	SML - 14	MED - 15	LRG - 18	EXL - 20	2XL - 22
Chest/Bust	38	40	42	44	46
Neck	14.5	15.5	16.5	17.5	18.5

Quality accessories for the quality welder

ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at www.esab.com or contact your local ESAB dealer.

Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to non. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.

2007-02-12

ESAB AB
Box 8004, SE-402 77 Göteborg, Sweden
Phone: +46 31 50 90 00 Fax +46 31 50 93 90
E-mail: info@esab.se
www.esab.com

Hand Gloves

Welding and Handling Gloves for Comfort and Durability

Welding Hand Gloves

TIG Professional Gloves

Heavy Duty Hand Gloves

Application Areas

- MIG / MAG Welding
- MMA Welding
- TIG Welding
- General Handling

High Quality, Comfort and Durable

ESAB hand gloves are made of specially tanned high quality leather with comfort lining and additional thumb reinforcement for durability.

- Welding Hand Gloves 14", 16", 18"– heavy duty chrome leather, heat resistant, KEVLAR stitched, fully welted fingers and reinforced thumb
- TIG Professional Hand Gloves – soft nappa grain leather, high dexterity, KEVLAR stitched, wraparound first finger, reinforced thumb crotch and 15cm extended heat resisting cuff
- Heavy Duty Hand Gloves – heavy duty chrome leather, full knuckle protection, wing thumb, vein patch, rubberised cuff and elasticized wrist tensioner

Visit **www.esabindia.com** for more information.

Specifications / Technical Data

	Heavy Duty	Welding	TIG Professional
Length, inch	10.5	14 / 16 / 18	13.5
Temeprature of withstanding, deg C (max)	X	150	150
Abrasion	High	Medium	Low
Cut	Low	Low	Low
Tear	High	Medium	Low
Puncture	High	Medium	Low
Burning resistance	X	High	High
Contact heat resistance	X	Low	Low
Convective heat resistance	X	High	X
Radiant heat resistance	X	X	X
Resistance to small splash of molten metal	X	Medium	Medium

Ordering Information

Description	Part number
Heavy Duty Hand Gloves	2001005002
Welding Hand Gloves	2001005001
Welding Hand Gloves XL	2001005004
Welding Hand Gloves XXL	2001005005
TIG Professional Hand Gloves	2001005003

2014-08-14 / ESAB reserves the right to alter specifications without prior notice

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502, 5th Floor, Sagar Tech-B
Andheri Kurla Road, Saki Naka
Andheri East, Mumbai 400 072
Tel : (022) 2851 7386
Fax : (022) 2852 4974
Email : eqptsales.wr@esab.co.in

Northern Regional Office
239 – 240, DLF Tower
Shivaji Marg, Near Karampura
Crossing, New Delhi 110 015
Tel : (011) 4142 7091
Fax : (011) 4142 7099
Email : eqptsales.nr@esab.co.in

Southern Regional Office
13, Industrial Estate, III Main Road,
Ambattur, Chennai – 600 058
Tel : (044) 4340 4809 / 10
Fax : (044) 4340 4810
Email : eqptsales.sr@esab.co.in

Central Regional Office
No. 218, Ashirvad
South Ambazari Road
Bajaj Nagar, Nagpur 440 010
Tel : (0712) 222 9547 / 48
Fax : (0712) 222 9549
Email : eqptsales.cr@esab.co.in

ESAB / esabindia.com

Regd & H. O. : ESAB INDIA LIMITED
13, Industrial Estate, III Main Road
Ambattur, Chennai – 600058
Email: equipment.sales@esab.co.in

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

SAFETY SHOE FX

Safety with Elegance

Safety Shoe FX

Comfort and Elegance

ESAB Safety Shoe FX is designed with new safety features along with comfort and contemporary looks.

- Ladder-grip Sole for safety while climbing stairs / ladders
- Reflector at back for improved visibility from distance
- Extended Sole height at front for extra protection
- Enclosed Tongue for protection & improved aesthetics
- Full EVA Padded Socks for extra comfort
- Elegant Single-piece upper leather with suede strip

Visit **www.**esabindia.com for more information.

Specifications / Technical Data	
Color	Black
Upper Leather	Printed Grain Barton Leather with Suede Leather strip
Tongue & Collar	Dual tone PVC
Vamp lining	Non-woven Polyester
Socks	Full EVA padded
In Sole	Non-woven Anti-static
Mid Sole	Steel
Out Sole	Poly-Urethane
Steel Toe Cap	200J
Standards	Meets EN 345 / IS 15289 (II)

Ordering Information

Description	Part number	Description	Part number
Safety Shoe FX, Size 5	2001006010	Safety Shoe FX, Size 9	2001006014
Safety Shoe FX, Size 6	2001006011	Safety Shoe FX, Size 10	2001006015
Safety Shoe FX, Size 7	2001006012	Safety Shoe FX, Size 11	2001006016
Safety Shoe FX, Size 8	2001006013	Safety Shoe FX, Size 12	2001006017

2017-03-29 / ESAB reserves the right to alter specifications without prior notice.

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502, 5th Floor, Sagar Tech-B
Andheri Kurla Road, Saki Naka
Andheri East, Mumbai 400 072
Tel : (022) 2851 7386
Email : eqptsales.wr@esab.co.in

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= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

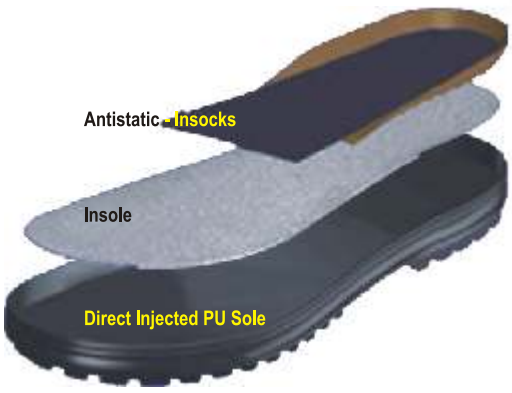
Safety Shoe

ESAB®

If you are looking for a comfortable safety footwear that offer excellent slip resistance with toe protection your search ends here.

Features:

- EN compliant Safety Footwear for General Engineering, Chemical, Cement,Construction, Catering & Service Industry
- Breathable Full Grain Leather Upper, Comfortable, Elegant
- Light Weight
- Imported Mesh Lining
- Imported 200 joules Steel Toe cap EN 12568
- Moulded full socks
- Direct Injected lightweight PU Sole
- Antistatic
- Slip Resistant (SRA Compliant)
- Meet EN 344 / IS 15298 (II)
- Value for money



TECHNICAL SPECIFICATIONS OF GENTS SAFETY SHOES (DERBY)

Description	Specifications
Operative Standard	Meets IS 15298:2002 Part I &II & EN 345/ 20345
Description	Black Derby 4 Eyelet safety Shoe, Single Density Slip resistant Direct Injected PU Sole. Steel Toe Cap & Steel Mid Sole. Nail less. As per design A (4.2 of IS 15298 part 1)
Sizes	UK (Range 5-11)
Height & size of shoe	Less than 113 mm for size 8 (+/- 5 mm)
Color	Black
Marking	As per IS 15298 (Part 2):2002 Clause 6
Electrical Properties	Antistatic. Resistance between 100 Kilo Ohms & 1000 Mega Ohms
Upper leather	Printed Grain Buff Barton leather
Upper I thickness	As per IS 15298:2002 Part I &II & EN 345/ 20345
Vamp lining	Non woven Polyester
Tongue & Collar	Imported Double Color, PU Coated, Padded
Lining other than vamp	Black Mesh (Imported)
Socks	Full EVA padded, Antistatic
Insole	Non Woven Antistatic
Out Sole	PU Single density
Sole fixation	Direct injection process on DESMA Machines
Heel Stiffner	Moulded stiffener for additional support.
Sole Cleated Area	As per 4.8 of IS 15298 & EN 345
Cleat Height	As per 4.8 of IS15298 & EN 345
Sole Thickness	As per 4.8 of IS 15298 & EN 345
Sole Abrasion Resistance	As per 4.8.4 of IS 15298 & EN 345
Sole Flexing Resistance	As per 4.8.5 of IS 15298 & EN 345
Bond Strength	As per 4.3.1.2 of IS 15298 & EN 345
Steel Toecap	Rust resistant Epoxy Coated EN 12568 marked imported with polymer comfort strip. Level of protection 200 joules. Also protect against compression injury.
Padding under steel toe	Polymer Strip for comfort
Thread	Nylon 20 and 40 No.
Eye let	4 Rust Resistant Round Brass Metal Eyelets
Lace	Round Double Colored Nylon 80 cm
Suitable for	Engineering, Petrochemical & Construction

ESAB®

ESAB INDIA LIMITED

Registered and Head Office: 13, Industrial Estate, III Main Road, Ambattur, Chenni- 600058. Tel : 044-42281100 Fax : 044-42281107
Equipment Factories : Taratala, Kolkata and Irungattukottai. Chennai
Divisional Sales : Email : equipment.sales@esabindia.com

Eastern Regional Office
P41 Taratala Road
Kolkata 700088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esabindia.com

Western Regional Office
501/502,5th Floor,Sagar Tech-B
Andheri Kurla Road,Saki Naka
Andheri East, Mumbai 400072
Tel : (022) 2851 7386
Fax : (022) 2852 4974
Email : eqptsales.wr@esabindia.com

Northern Regional Office
71/1 Najafgrh Road
New Delhi 110015
Tel : (011) 4142 7191
Fax : (011) 4142 7099
Email : eqptsales.nr@esabindia.com

Southern Regional Office
Karamuttu Centre,6th Floor
New No. 634, Anna Salai
Nandanamhennai 60035
Tel : (044) 4204 0294
Fax : (044) 4204 0289
Email : eqptsales.sr@esabindia.com

Central Regional Office
No. 218, Ashirvad South Ambazari Road
Bajaj Nagar, Nagpur 440010
Tel : (0712) 222 9547/ 48
Fax : (0712) 222 9549
Email : eqptsales.cr@esabindia.com

web: www.esabindia.com

RDPL/ 01-2012

Description	Specifications
Operative Standard	*Meets IS 15298:2002 Part I &II & EN 345/ 20345*
Description	Black Derby 4 Eyelet safety Shoe, Single **Density** Slip resistant Direct Injected PU Sole. Nail less. As per design A (4.2 of IS 15298 part 1)
SIZES	UK (Range 5-13)
Height & size of shoe	Less than 113 mm for size 8 (+/- 5 mm)
Color	Black
Marking	As per IS 15298 (Part 2):2002 Clause 6
Electrical Properties	Antistatic.Resistance between 100 Kilo Ohms & 1000 Mega Ohms
Upper leather	Printed Grain Buff Barton leather
Upper l thickness	As per *S 15298:2002 Part I &II & EN 345/ 20345*
Vamp lining	Non woven Polyester
Tongue & Collar	Imported Double Color material Padded
Lining other than vamp	BLACK Mesh Small Hole
Socks	Full EVA padded
Insole	Non Woven Antistatic
Out Sole	PU Single density
Mid Sole	Steel Mid Sole Penetration Resistant EN 12568 Marked
Sole fixation	Direct injection process on DESMA Machines
HEEL STIFFNER	Moulded stiffener for additional support.
Sole Cleated Area	As per 4.8 of IS 15298 & EN 345
Cleat Height (thickness)	As per 4.8 of IS15298 & EN 345
Sole Thickness Non cleated	As per 4.8 of IS 15298 & EN 345
Sole Abrasion Resistance	As per 4.8.4 of IS, 15298 & EN 345
Sole Flexing Resistance	As per 4.8.5 of IS 15298 & EN 345
Inter Layer Bond Strength	As per 4.8.7 of IS 15298 & EN 345
Steel Toecap	Rust resistant Epoxy Coated EN 12568 marked imported with polymer Comfort strip. Level of protection 200 joules. Also protect against compression injury
Padding under steel toe	Polymer Strip for comfort
Thread	Nylon 20 and 40 No.
Eye let	4 Rust Resistant Round Brass Metal Eyelets
Lace	Round Double Colored Nylon 80 cm
MARKING	CE or as per IS 15298 Part II Antistatic
SUITABLE FOR	ENGINEERING, PETROCHEMICAL & CONSTRUCTION
Branding on Upper	Kanachar Label on outer side
Branding on Socks	Fabric woven label on heel area of the socks

WARRIOR™ TECH 9-13 and Eco Air PAPR Combination

Ergonomically Designed Auto Darkening Welding Helmet with Respiratory System

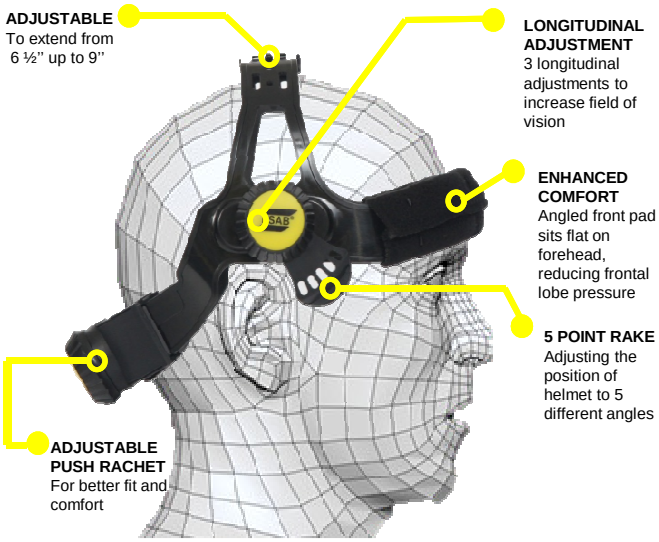
Warrior™ Tech 9-13 Yellow

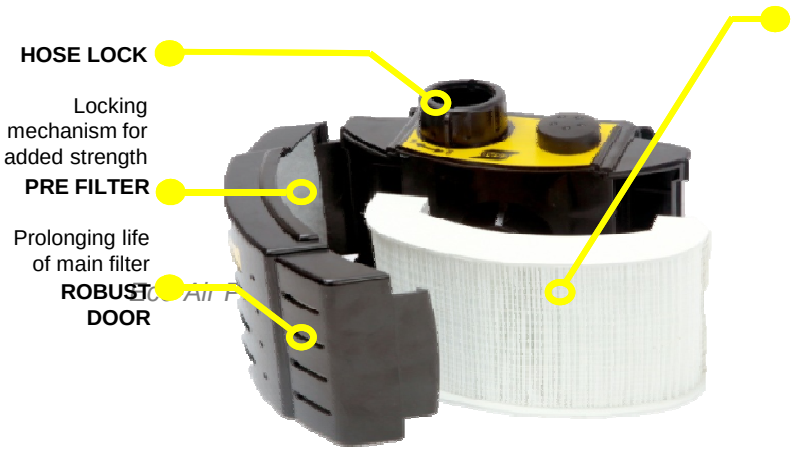
Versatile and User Friendly

Warrior™ Tech 9-13 is an active welding helmet suitable for multiple welding processes. Eco Air PAPR is an optional respiratory system, which can be used with Warrior™ Tech 9-13 for Air.

- Adjustable shades DIN 9-13 with Delay and Sensitivity Control
- Versatile – MMA, MIG/MAG, TIG (>5A)
- Larger viewing area – 98 x 48 mm
- EN 166 B Impact rated Shell
- Light weight – 520 gm

Visit **www.**esabindia.com for more information.





MECHANICAL PARTICULATE PLEATED "PAPER" FILTER TH2P/3P

The filter media is made of Glass microfibers

MECHANICAL PARTICULATE PLEATED "PAPER" FILTER WITH CARBON TH2P

The filtering media is made from Glass microfibers which in combination with the 2 layers of Activated charcoal (carbon) media offers a very large surface area to absorb Odours without effecting performance. To be used in conjunction with Carbon pre- filters

PRE FILTER

Regular changing of pre-filters will extend the life of the main filter. ESAB recommend that the pre-filter should be changed once per shift **(8hrs).** In a High dust environment, should then be changed more often (2-3times) per shift.

Specifications / Technical Data

	Warrior™ Tech 9-13
Viewing area, mm	98 x 48
Switch speed, ms	0.3
Weight, gm	520
Shade setting, DIN	9 – 13
Sensors	4
Grinding mode	No
Delay setting	Internal (Adjustable)
Sensitivity	Internal (Adjustable)
Impact rating of shell	EN 166 B
Standards	EN 12941
	Eco Air
PAPR dimensions, W x H x D, mm	160 x 160 x 87
Unit weight, (battery + filter), gm	1000
Battery type	Nickel Metal Hydride (NiMh)
Battery weight, gm	485
Battery charger type	Intelligent Charger
Battery operating time, hr @ l/min	8 @ 170
Air flow	Preset
Battery warning alarm	Audio
Main filter (Particulate)	Yes
Main filetr (Particulate/Odour)	Yes
ON/OFF control	Push Switch + Dust Cover

2014-07-16 / ESAB reserves the right to alter specifications without prior notice

Ordering Information

Description	Part number	Description	Part number
Warrior™ Tech 9-13 Yellow	0700 000 401	Front Cover Lens Warrior™ Tech	0700 000 010
Sweat Band Warrior™ Tech	0700 000 414	Warrior™ Tech 9-13 Yellow For Air	0700 000 406
Head Gear EXL	0700 000 405	Eco Air Complete	0700 002 175
Inside Cover Lens Warrior™ Tech	0700 000 416	Origo Air Complete	0700 002 100
Note : Warrior™ Tech 9-13 Yellow For Air can be offered with Eco Air Complete or Origo Air Complete.			

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Kolkata 700 088
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COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
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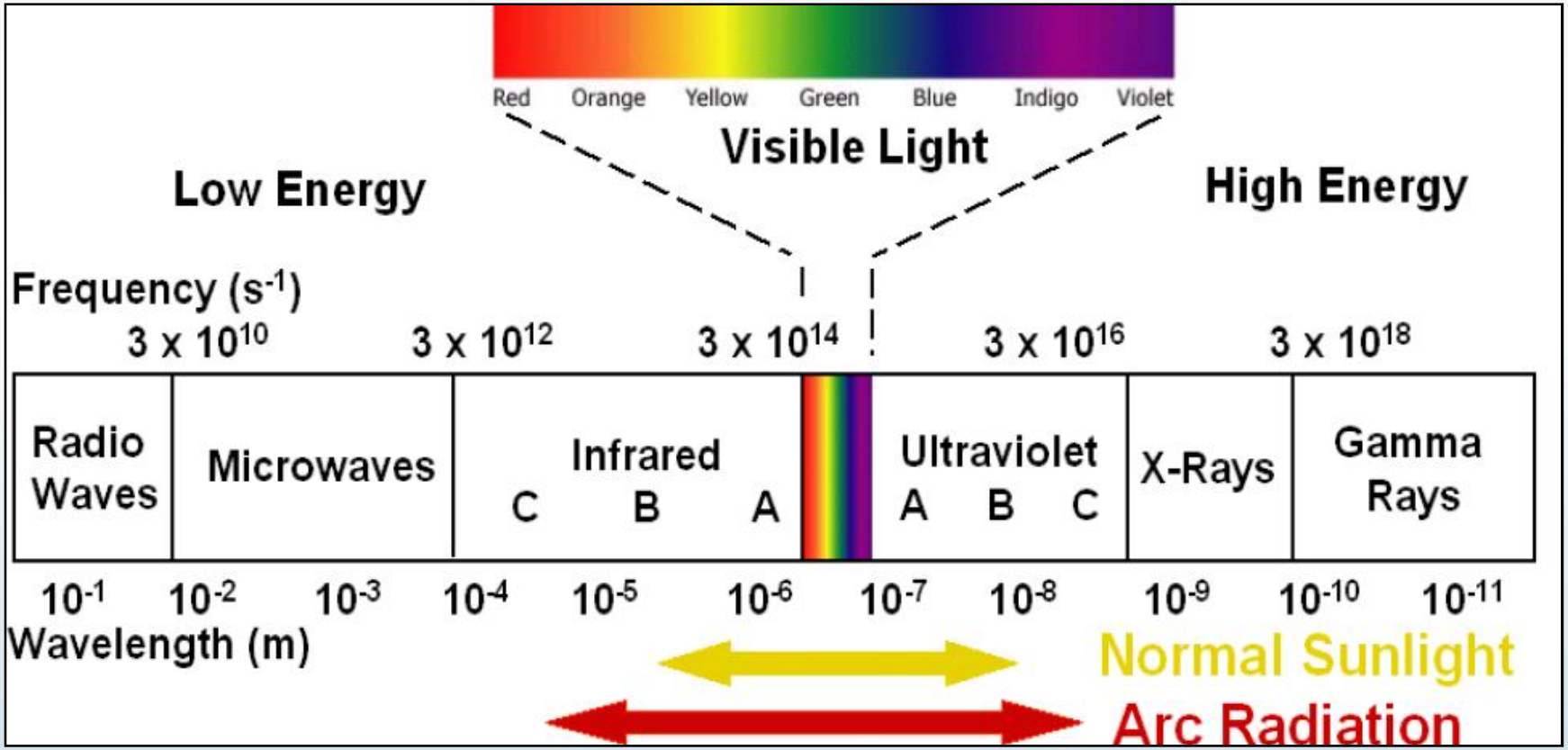
ESAB®

Warrior™ Tech 9-13 and Eco Air

Ergonomic Design
Auto Darkening Helmet with Respiratory System

Need of Welding Helmet

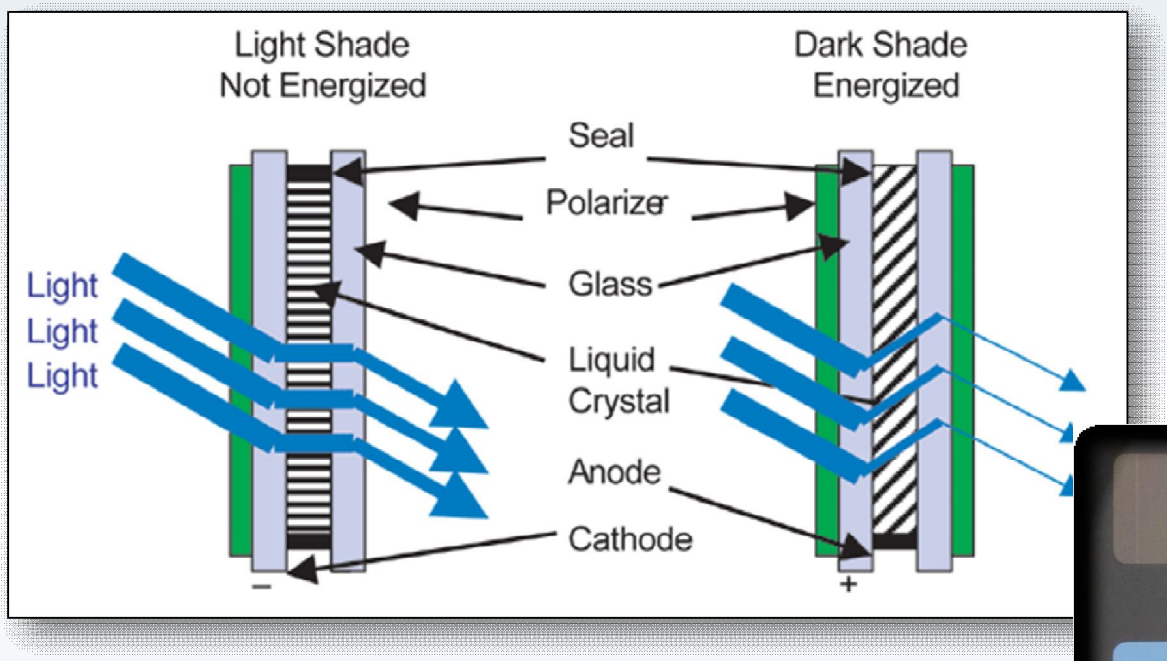
Arc radiation covers a wider frequency than sunlight, which is harmful to the human eye, a welding helmet provides protection to the eye by filtering out the harmful contents by a filter.

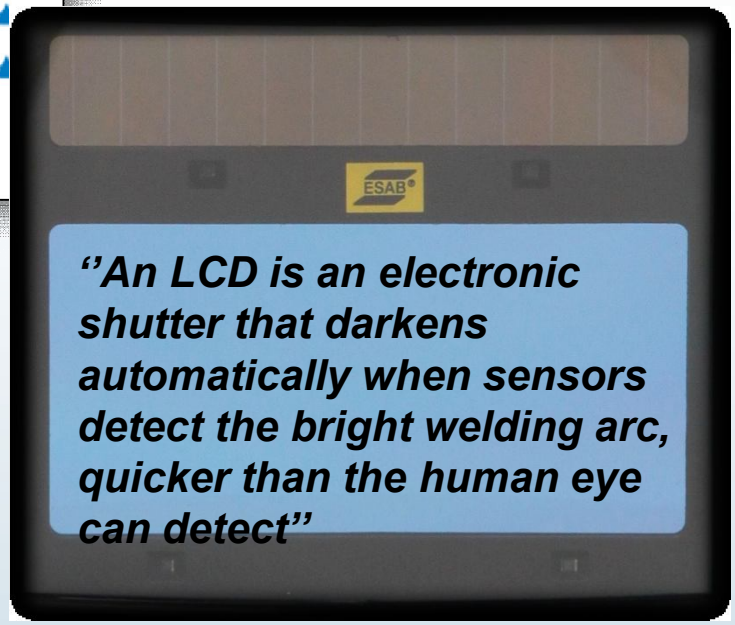


Types of Welding Helmets Active vs. Passive

Passive Helmet	Active Helmet
No / Poor Visibility when welding arc is not present	Clear Visibility when welding arc is not present. Filter is activated on arc striking
Only one Filter lens can be fixed at any point in time	Auto Darkening Filter (ADF) with selection options for 5 filter ratings eg 9-13
Does not need external power to work.	Auto Darkening Filter (ADF), which is an LCD, is powered by a battery

Auto Darkening Filter (ADF)





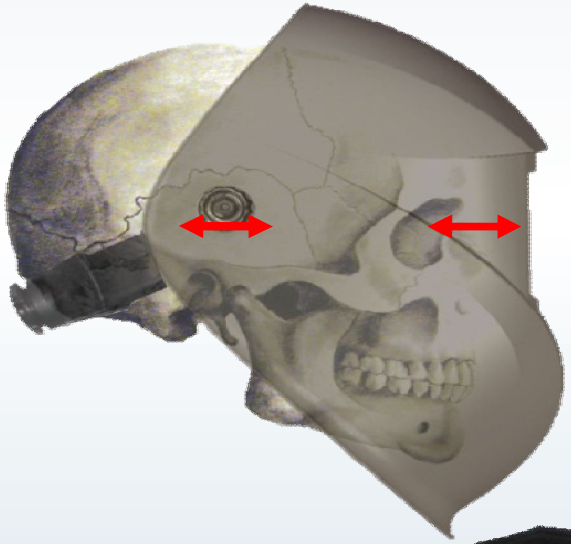
Auto Darkening Helmet Advantages & Benefits

Advantage	Customer Benefit
• Allows welder to keep the helmet down and both hands free when positioning electrode or torch	• Allowing for more accurate welds, and quicker set ups
• Uninterrupted view of work during and between weld	• Less risk for errors, meaning less scrap and rework
• Multiple shade adjustment	• Allows use in all arc welding processes: MMAW, GMAW and GTAW (>5 A).
• ADF helmets have more options for full face respiratory attachments	• Allows welding in areas with poor access & ventilation and enhanced safety from welding fumes
• Reduce Arc-Eye burns	• Less down time due to injuries

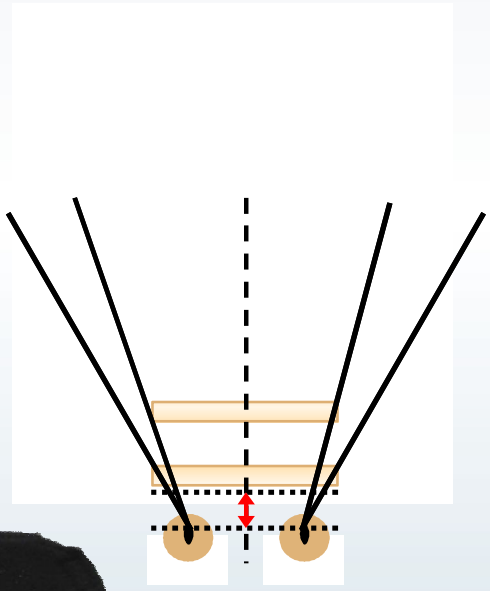
Warrior™ Tech 9-13
Improved Quality & Productivity

Improved Visibility allowing longer welding with more accurate welds, quicker set-ups and lower scrap & re-work

3 Longitudinal Adjustment Positions



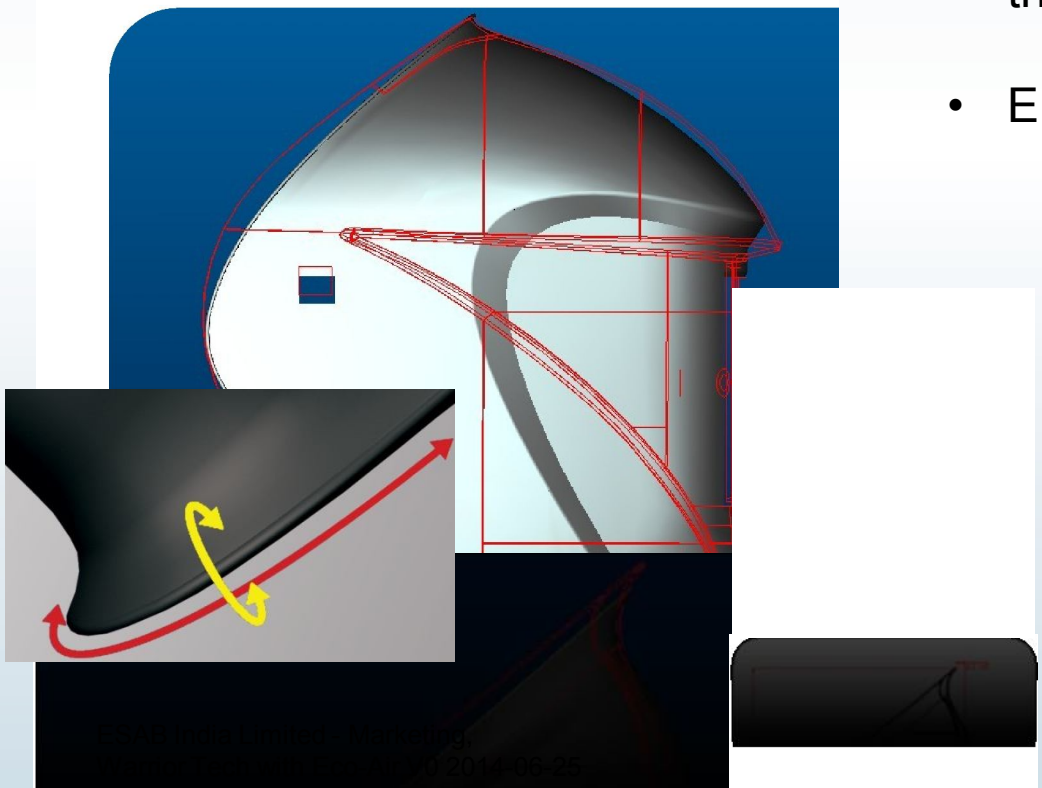
Improved Viewing



New design of Sweat Band for longer working hours

Warrior™ Tech 9-13 Versatile

Warrior™ Tech 9-13 Safety



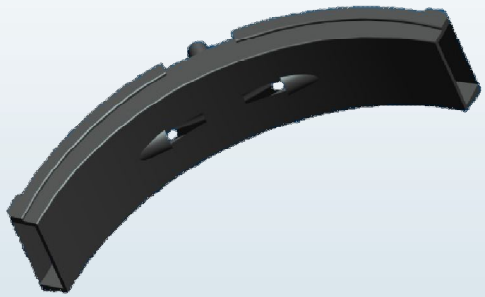
Highlights of the Shell

- Front, side & top protection
- Pivotal headgear position for the perfect balance
- EN 166 B IMPACT rated Shell

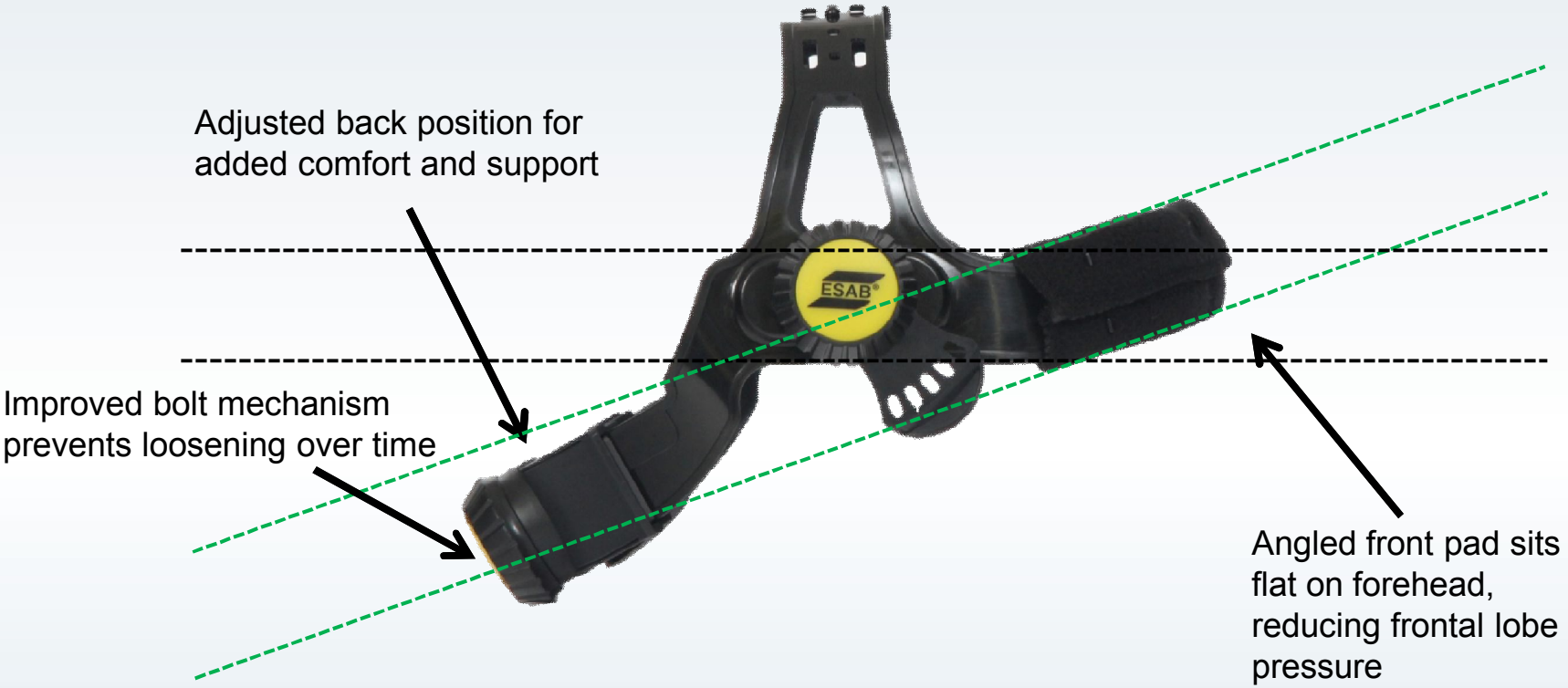
Warrior™ Tech 9-13
Rugged and Reliable

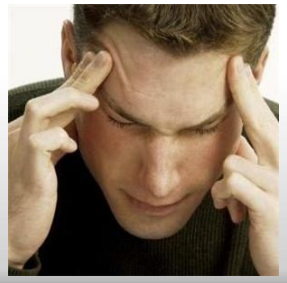
1. Improved design of rear pivot pad in Head Gear
2. Improved design of back plate in Head Gear
3. Strengthened the two pins

Enhanced Life
Easier to change spares



Warrior™ Tech 9-13 User-friendly





Reducing head aches over long periods of time

Weighs only 520g

Warrior™ Tech 9-13 Technical Specifications

WARRIOR™ *Tech*

Optical rating	1/2/1/2
Viewing area:	98 x 48
Switch Speed:	0.3ms
Weight:	**520 g**
Shade setting:	9-13
Sensors	4
Grinding mode:	No
Delay setting:	Internal
Sensitivity:	Internal
Impact rating:	B = Medium impact (Shell)

Eco Air – PAPR
Powered Air Purifying Respirator

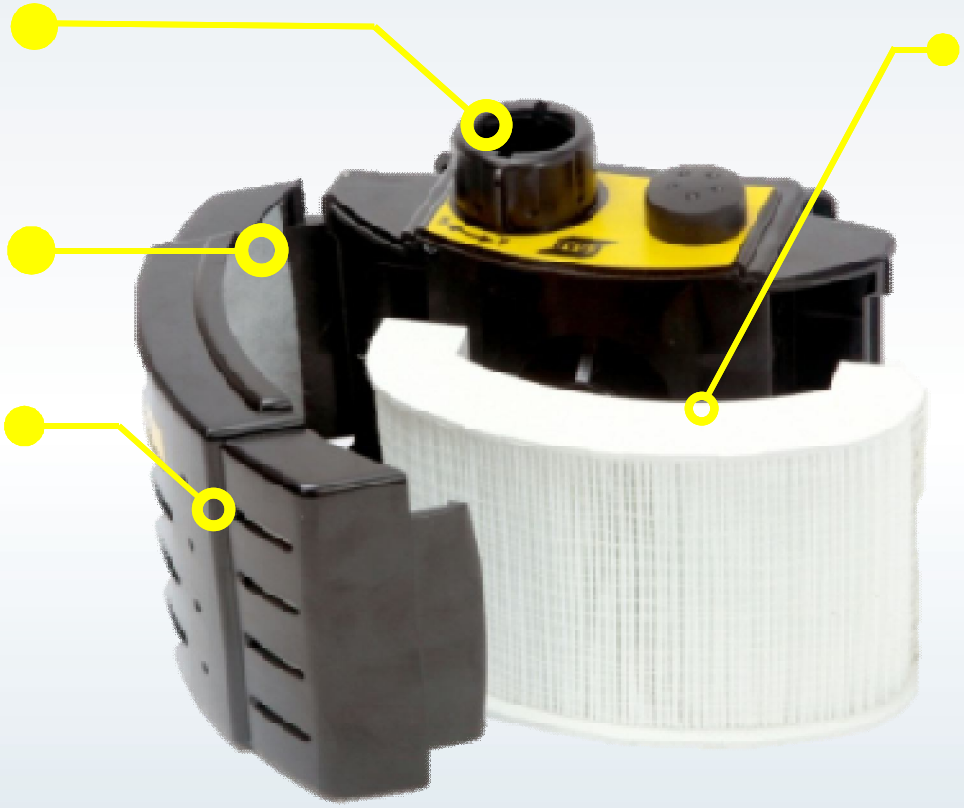
HOSE LOCK

Locking mechanism for added strength

PRE FILTER

Prolonging life of main filter

ROBUST DOOR



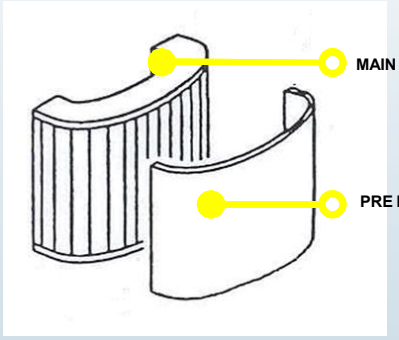
MECHANICAL PARTICULATE PLEATED "PAPER" FILTER THP2/3

(The filter media is made of Glass microfibers ,total filtering surface area is 3600 cm²)

larger filter area means the filter lasts longer , ultimately reducing the consumption for the user.

PRE FILTER

Regular changing of pre-filters will extend the life of the main filter. ESAB recommend that the pre-filter should be changed once per shift **(8hrs).** In a High dust environment, should then be changed more often (2-3times) per shift.



Eco Air – PAPR Technical Specifications

Eco Air

PAPR Dimesnsions, W x H x D, mm	160 x 160 x 87
Unit Weight (Battery + Filter), gm	1000
Battery Weight, gm	485
Battery Type	Nickel Metal Hydride
Battery Charger Type	Intelligent Charger
Battery Operating Time, hr @ l/min	8 @ 170
Air Flow, l/min (min)	170
Air Flow	Preset
Battery Warning Alarm	Audio
Main Filter (Particulate)	Yes
Main Filter (Particulate/Odour)	Yes
ON/OFF Control	Push Switch + Dust Cover

esab.com

Marketing & Product Information: Equipment

To All Authorised Dealers

Launch of Welding Aprons with Improved User Comfort

Dear Sir(s) / Madam(s),

We are pleased to announce the launch of Welding Aprons with size options for improved user comfort. Our welding aprons will now be available in two size options of Medium (M) and Large (L). The newly introduced Medium size apron is well suited for the average Indian physique, whereas the Large size apron suits users with a taller physique.

Both the ESAB protective aprons are made of superior quality split leather and distribute the weight effectively. They are KEVLAR stitched and reinforced with rivets along with leather straps for added strength to the clothing.

Prices of both the welding aprons are available in the Standard Welding & Cutting Equipment, PPE and Accessories Price List.

In anticipation of your continued support.

With best wishes

P Ravi Kumar
Head – Marketing

Date: August 27, 2013 MPI: 2013/07

Welding Cable

Now Heat, Fire & Wear resistant at a price of an ordinary cable

ESAB®

Technical Data

- Harmonised Welding Cable with general purpose Rubber Sheathing as Type SE 1

  NBR-PVC HOFR Sheathing as Type SE 3 to IS : 6380/84
- Conductor resistance in accordance to IS : 8130/84.
- Conductor resistance factor at +20°C - see technical information
- Admissible working temperature at the conductor

  General Purpose: + 80°C

  HOFR/NBR-PVC Type: +100°C

Cable Structure

- Plain / Tinned annealed Copper / Plain Aluminium conductor extra fine stranded & bunched in accordance to IS : 8130/84.
- Melinex tape used as separator over the conductor for better electric conductivity.
- Rubber/NBR jacketing as per IS : 6380/84.
- With marking of brand name & cross section on each mtr.
- Testing of cable carried out as per IS : 9857/90 at our in house facility
- Standard 100 mtr. length supplied in a eco-friendly fibre drum

Application

- Rubber insulated flexible welding cable are used to connect Welding Machine & for better welding proficiency.
- Used in Automobile industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction, Coal Mines etc.
- The robust construction makes these cables highly durable.

Welding Cable with standard flexibility with General Purpose Insulation, bending radius : approx 15 x Cable∅

Cross section (Sq.mm)	Copper Conductor				Aluminium Conductor			
	Approximate No. of Wires X Single Wire∅ (mm)	Radial thickness of sheathing (mm)	Approx overall Diameter (mm)	Max. Resistance @20°C (ohm/km)	Approximate No. of Wires X Single Wire∅ (mm)	Radial thickness of sheathing (mm)	Approx overall Diameter (mm)	Max. Resistance @20°C (ohm/km)
1x35	497 X 0.3	2.0	13.7	0.554	497 X 0.3	2.0	13.7	0.901
1x50	702 X 0.3	2.2	15.3	0.386	702 X 0.3	2.2	15.3	0.634
1x70	999 X 0.3	2.4	17.3	0.272	999 X 0.3	2.4	17.3	0.445
1x95	1332 X 0.3	2.6	20.5	0.206	1332 X 0.3	2.6	20.5	0.334
1x120	1702 X 0.3	2.8	22.7	0.161	1702 X 0.3	2.8	22.7	0.256

Safety Requirements

- Coiled welding cable must always be spread out before using to avoid overheating in use.
- Cables must not be spliced within 10 feet of the holder.
- Welding cable must never be coiled or looped around the body of the worker.
- Cables with damaged insulation must be replaced.

Current Rating for Tough Rubber Sheathed Welding Cable

Cross section (Sq.mm)	Copper Conductor					Aluminium Conductor				
	Current Rating at Max. Duty Cycle in Amps					Current Rating at Max. Duty Cycle in Amps				
	100%	85%	60%	30%	20%	100%	85%	60%	30%	20%
1x35	156	169	201	285	349	123	133	159	225	275
1x50	197	214	254	360	440	155	168	200	283	347
1x70	248	269	320	453	555	196	213	253	358	438
1x95	299	342	386	546	669	237	257	306	433	530
1x120	356	410	447	633	772	283	307	365	517	633

Current Rating for HOFR Sheathed Welding Cable

Cross section (Sq.mm)	Copper Conductor				Aluminium Conductor			
	Current Rating at Max. Duty Cycle in Amps				Current Rating at Max. Duty Cycle in Amps			
	100%	85%	60%	30%	100%	85%	60%	30%
1x35	221	240	285	403	176	191	227	321
1x50	279	303	360	509	222	241	287	405
1x70	352	382	454	643	280	304	361	511
1x95	424	460	547	774	339	368	438	619
1x120	491	525	601	814	404	438	522	738

ESAB®

ESAB INDIA LIMITED

Registered and Head Office: 13, Industrial Estate, III Main Road, Ambattur, Chenni- 600058. Tel : 044-42281100 Fax : 044-42281107

Equipment Factories : Taratala, Kolkata and Irungattukottai. Chennai

Divisional Sales : Email : equipment.sales@esab.co.in

Eastern Regional Office
P41 Taratala Road
Kolkata 700088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502,5th Floor,Sagar Tech-B
Andheri Kurla Road,Saki Naka
Andheri East, Mumbai 400072
Tel : (022) 2851 7386
Fax : (022) 2852 4974
Email : eqptsales.wr@esab.co.in

Northern Regional Office
71/1 Najafgrh Road
New Delhi 110015
Tel : (011) 4142 7191
Fax : (011) 4142 7099
Email : eqptsales.nr@esab.co.in

Southern Regional Office
Karamuttu Centre,6th Floor
New No. 634, Anna Salai
Nandanamhennai 60035
Tel : (044) 4204 0294
Fax : (044) 4204 0289
Email : eqptsales.sr@esab.co.in

Central Regional Office
No. 218, Ashirvad South Ambazari Road
Bajaj Nagar, Nagpur 440010
Tel : (0712) 222 9547/ 48
Fax : (0712) 222 9549
Email : eqptsales.cr@esab.co.in

web: www.esabindia.com

Welding Cable

Now Heat, Fire & Wear resistant at a price of an ordinary cable

ESAB®

Technical Data

- Harmonised Welding Cable with general purpose Rubber Sheathing as Type SE 1

  NBR-PVC HOFR Sheathing as Type SE 3 to IS : 6380/84
- Conductor resistance in accordance to IS : 8130/84.
- Conductor resistance factor at +20°C - see technical information
- Admissible working temperature at the conductor

  General Purpose: + 80°C

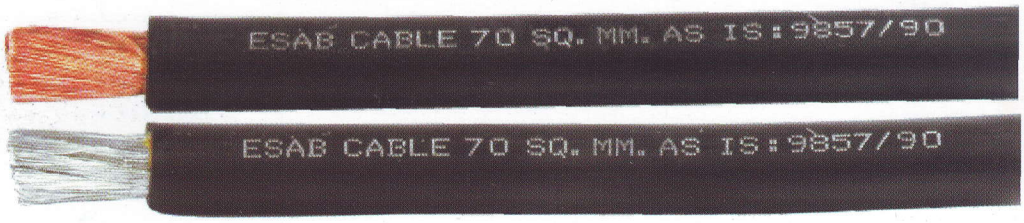
  HOFR/NBR-PVC Type: +100°C

Cable Structure

- Plain / Tinned annealed Copper / Plain Aluminium conductor extra fine stranded & bunched in accordance to IS : 8130/84.
- Melinex tape used as separator over the conductor for better electric conductivity.
- Rubber/NBR jacketing as per IS : 6380/84.
- With marking of brand name & cross section on each mtr.
- Testing of cable carried out as per IS : 9857/90 at our in house facility
- Standard 100 mtr. length supplied in a eco-friendly fibre drum

Application

- Rubber insulated flexible welding cable are used to connect Welding Machine & for better welding proficiency.
- Used in Automabile industries, Shipbuilding, Transport, Steel Plants, Railways, Refineries, Oil fields, Automatic Welding Robots, Construction, Coal Mines etc.
- The robust construction makes these cables highly durable.



Copper Conductor					Current Rating at Max. Duty Cycle (Amps.)				
Cross ection (sq.mm)	No. of 0.3 mm∅ Strands	Sheath Thickness (mm)	Approx overall Diameter (mm)	Max. Resistance @20°C (ohm/km)	100%	85%	60%	30%	20%
35	497	2.0	13.7	0.554	156	169	201	285	349
50	702	2.2	15.3	0.386	197	214	254	360	440
70	999	2.4	17.3	0.272	248	269	320	453	555
95	1332	2.6	20.5	0.206	299	342	386	546	669
Aluminium Conductor					**Current Rating at Max. Duty Cycle (Amps.)**				
70	999	2.4	17.3	0.445	196	213	253	358	438
120	1702	2.8	22.7	0.256	283	307	365	517	633
Copper Conductor HOFR					**Current Rating at Max. Duty Cycle (Amps.)**				
50	702	2.2	15.3	0.386	279	303	360	509	—
70	999	2.4	17.3	0.272	352	382	454	643	—
95	1332	2.6	20.5	0.206	424	460	547	774	—

Safety Requirements

- Coiled welding cable must always be spread out before using to avoid overheating in use.
- Cables must not be spliced within 10 feet of the holder.
- Welding cable must never be coiled or looped around the body of the worker.
- Cables with damaged insulation must be replaced.

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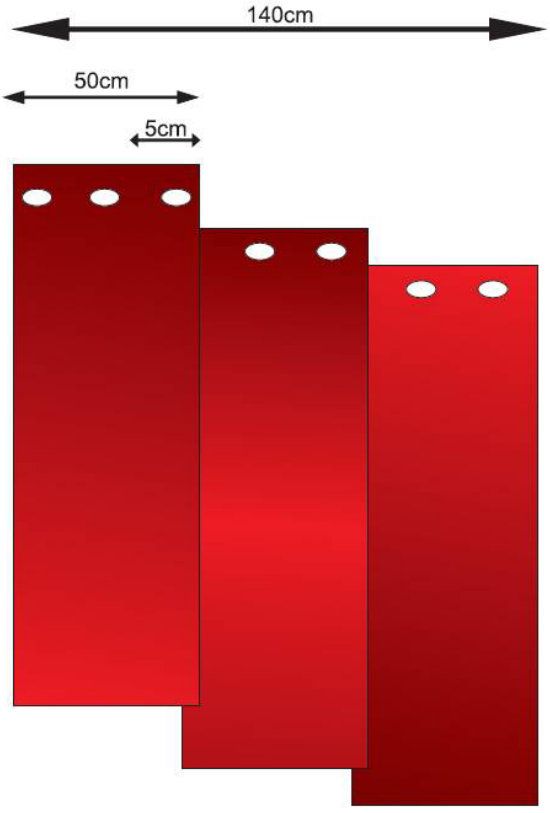
Eastern Regional Office
Western Regional Office
Northern Regional Office
Southern Regional Office
Central Regional Office

Welding Curtains

Welding Curtains

Three colour types are available and all three can be supplied as standard curtains. The self-extinguishing material provides good protection from dangerous welding radiation. The curtains are equipped with press-studs for easy, strong fastening and they are folded at the top and the bottom to withstand harsh use. All approved according to prEN 1598. The mounting rings come in a package of seven, which is enough to mount any of the curtains (supplied in a standard length of 1.8m x 1.4m). Rings are included when ordering any of the curtains.

Welding curtain, Dark Red	2001004001
Welding curtain, Green Transparent	2001004002
Welding curtain, Dark Green (DIN 9)	2001004003
Welding strip curtain, dark red, 1.8 x 1.4m	2001004004
Welding strip curtain, green transparent (DIN 6),1.8 x 1.4m	2001004005
Welding strip curtain, dark green (DIN 9), 1.8 x 1.4m	2001004006



ESAB Goggles & Visors

ESAB Face Shield

Safety face shield is made of 1.8 mm thick, 7'' long & 14'' wide colourless, transparent acrylic. This tilting visor is to protect forehead, eyes, cheeks, nose and mouth from flying particles, sprays or splashes of hazardous liquids.

Face Shield	2001003001

ESAB Welding Goggle

New snugfit PVC make one piece Bocal type protective goggle with ventilators, holding rings with clear lense for gas welding, brazing and gas cutting.

Welders Goggle FG2	2001003002

Eye-Tech™ II Reactive Welding Helmets

REACTIVE WELDING HELMETS WITH FULL HEAD AND RESPIRATORY PROTECTION OPTIONS

Eye-Tech™ II – Reactive Welding Helmets

For the welder the single most important product in terms of personal protection has to be the welding helmet. A name, which has become synonymous with comfort, safety and reliability in automatic welding helmets, is “ESAB Eye-Tech”. Now ESAB is proud to introduce the Eye-Tech II, a completely new helmet in terms of design and performance. With the Eye-Tech II, ESAB have combined a new modern look with great mechanical features for improved comfort and functionality.

A new feature of the Eye-Tech II is the curved front cover lens. This helps to prevent spatter sticking and the edges created by the design of the helmet shell, protect the front cover lens from getting scratched if the helmet is placed face down on the workbench. The lens is also sealed with a rubber gasket to prevent any build up of fumes between the lens and the cartridge.

The Eye-Tech II uses the same harness as its predecessor, which distributes the weight evenly on the head. The helmet is designed to give full protection not only from the front but also the side of the face and ears. The Eye-Tech has always been known for its comfort.

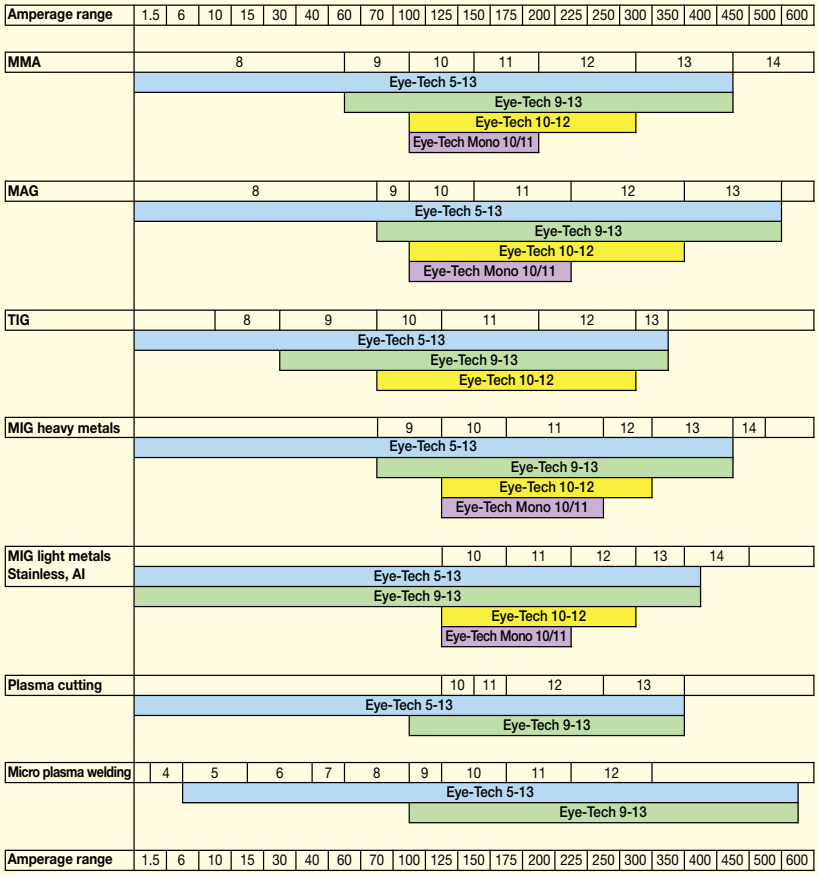
- **Unique shell design gives maximum protection to cover lense**
- **Improved filter lense**
- **New “quick release” impact resistant cover lense**
- **Maximum protection for face, neck and ears**

When working with an Eye-Tech helmet you never have to worry about switching the cartridge on because it is always active. There are batteries in the cartridge and these are charged by the solar cells. This way the batteries are always kept at full capacity and when the helmet is placed in a dark environment, like in a cabinet, in a box or face down on the bench, the electronics automatically switch off after 10 minutes. As soon as the helmet is then brought back into the light it reactivates. This ensures that the batteries never run low.

It is very important to use the correct helmet for all welding applications. Left is a table to help you to identify which helmet to use based on the process, the amperage and the material being welded.

AN EYE-TECH FOR ALL YOUR APPLICATIONS

It is important to select the right helmet for the application. The following selection table should be used as a guidance.



Eye-Tech™ II with Air 160 respirator.

There are four different helmets in the Eye-Tech II range.

Eye-Tech™ II 5-13 *Part No 0700 000 907*
Top of the range and suitable for almost all applications, MIG, MMA, and TIG welding, even on very low amperage, grinding and plasma cutting. All adjustments, such as the shade setting, the sensitivity and the delay, are made using the satellite control, found on the outside of the helmet shell.

Eye-Tech™ II 9-13 *Part No 0700 000 908*
Again, the 9-13 can be used for most welding and cutting applications and has now been equipped with a completely new cartridge, making the helmet fully automatic. By setting the manual/auto switch to auto, the helmet will detect the intensity from the welding arc and set the shade accordingly. It is also possible to fine-tune the selected shade using the potentiometer. Alternatively, you can set the switch to manual and set the shade level yourself.

As all the controls on the Eye-Tech II, 9-13 are on the outside of the helmet, you do not have to take the helmet off to set the sensitivity or the delay.

Eye -Tech™ II 10-12 *Part No 0700 000 909*
The 10-12 is an excellent helmet for people working in repair and maintenance as it provides shade cover for MMA and MIG welding at between 100-300 amps. The helmet can also be used for TIG welding at between 70-300 amps. The shade setting potentiometer has been put on the outside of the helmet from where it can be set even with the gloved hand.

Eye-Tech™ II 10-11 *Part No 0700 000 910*
The entry level helmet in the Eye-Tech II range is the 10-11, a two shade helmet designed for MIG/MAG and MMA welding.

Eye-Tech™ II –
The complete protection system

EYE-TECH™ II WITH HARD HAT AND AIR SUPPLY

For environments where both head and respiratory protection are required the Eye-Tech II with hard hat and air supply is the ideal solution. The system consists of an Eye-Tech II helmet and a high quality hard hat with internal air duct.The system can be connected to either the Air 160/190 or breathable compressed air using the standard Eye-Tech air hose (0468 127 011).

Eye-Tech II 5-13 Air/Hard hat	**0700 000 920**
Eye-Tech II 9-13 Air/Hard hat	**0700 000 921**
Eye-Tech II 10-12 Air/Hard hat	**0700 000 922**
Eye-Tech II 10-11 Air/Hard hat	**0700 000 923**

EYE-TECH™ II WITH HARD HAT

By removing the head harness and replacing it with a hard hat adapter the Eye-Tech II can be fitted on to ESAB's protective helmet (0700 000 052). The combination is very well balanced and comfortable to wear. The Eye-Tech II helmet can be detached and reattached in a second. The specially designed hard hat meets the highest standard and it is equipped with ratchet adjustment.

Eye-Tech II 5-13	**0700 000 907**
Eye-Tech II 9-13	**0700 000 908**
Eye-Tech II 10-12	**0700 000 909**
Eye-Tech II 10-11	**0700 000 910**
Hard hat Eye-Tech	**0700 000 052**
Hard hat adapter Eye-Tech	**0700 000 043**

EYE-TECH™ II WITH INTERNAL VISOR

The Eye-Tech II can be used with an air fed grade B impact protection grinding visor complete with a face and head seal. The grinding visor can be fitted to any of the standard Eye-Tech II helmets and can be combined with either the Air 160, Air 190 or compressed air respiratory systems. This would be the ideal system for all applications involved in welding fabrication. One head system for welding and grinding.

Eye-Tech II 5-13 with internal visor	**0700 000 916**
Eye-Tech II 9-13 with internal visor	**0700 000 917**
Eye-Tech II 10-12 with internal visor	**0700 000 918**
Eye-Tech II 10-11 with internal visor	**0700 000 919**

Full details of the Eye-Tech™ II range of welding helmet including all Eye-Tech accessories and spares can be found in the ESAB PPE and Welding Accessories catalogue.

Eye-Tech accessories include: • Magnifying lenses • Neck and chin protection • Hearing protection

ESAB Limited
Hanover House, Queensgate,
Britannia Road, Waltham Cross,
Hertfordshire, EN8 7TF England
Telephone: 01992 760698 Fax: 01992 719191
Email: info@esab.co.uk
Website www.esab.co.uk

FMS/104677

WARRIOR™ TECH 9-13 and Eco Air PAPR Combination

Ergonomically Designed Auto Darkening Welding Helmet with Respiratory System

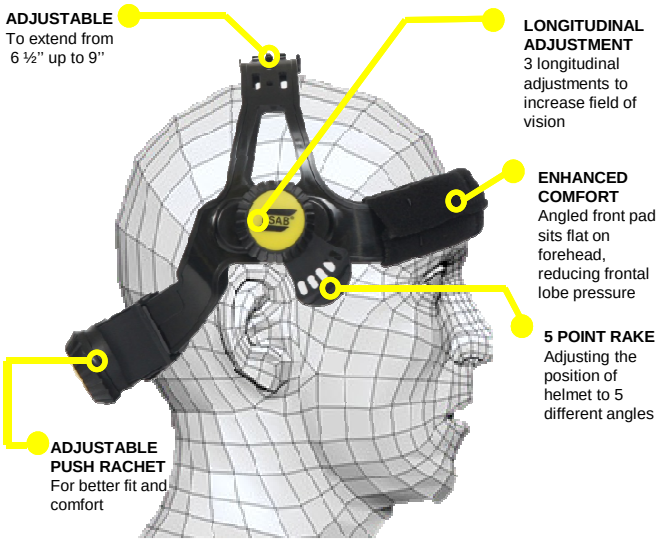
Warrior™ Tech 9-13 Yellow

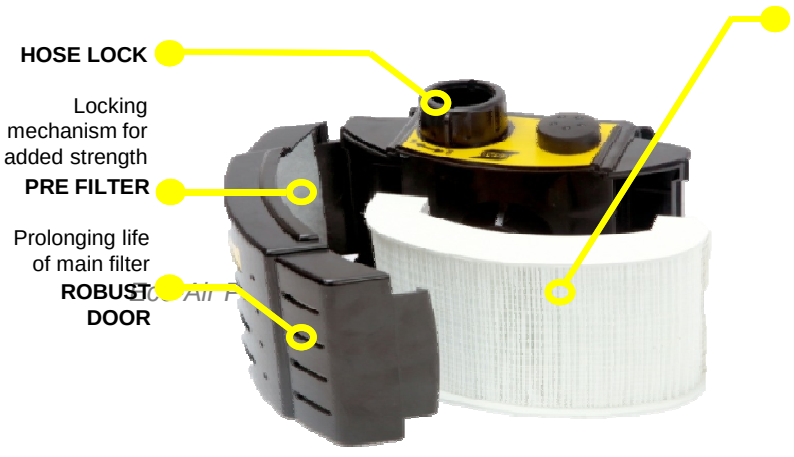
Versatile and User Friendly

Warrior™ Tech 9-13 is an active welding helmet suitable for multiple welding processes. Eco Air PAPR is an optional respiratory system, which can be used with Warrior™ Tech 9-13 for Air.

- Adjustable shades DIN 9-13 with Delay and Sensitivity Control
- Versatile – MMA, MIG/MAG, TIG (>5A)
- Larger viewing area – 98 x 48 mm
- EN 166 B Impact rated Shell
- Light weight – 520 gm

Visit **www.**esabindia.com for more information.





MECHANICAL PARTICULATE PLEATED "PAPER" FILTER TH2P/3P

The filter media is made of Glass microfibers

MECHANICAL PARTICULATE PLEATED "PAPER" FILTER WITH CARBON TH2P

The filtering media is made from Glass microfibers which in combination with the 2 layers of Activated charcoal (carbon) media offers a very large surface area to absorb Odours without effecting performance. To be used in conjunction with Carbon pre- filters

PRE FILTER

Regular changing of pre-filters will extend the life of the main filter. ESAB recommend that the pre-filter should be changed once per shift **(8hrs).** In a High dust environment, should then be changed more often (2-3times) per shift.

Specifications / Technical Data

	Warrior™ Tech 9-13
Viewing area, mm	98 x 48
Switch speed, ms	0.3
Weight, gm	520
Shade setting, DIN	9 – 13
Sensors	4
Grinding mode	No
Delay setting	Internal (Adjustable)
Sensitivity	Internal (Adjustable)
Impact rating of shell	EN 166 B
Standards	EN 12941
	Eco Air
PAPR dimensions, W x H x D, mm	160 x 160 x 87
Unit weight, (battery + filter), gm	1000
Battery type	Nickel Metal Hydride (NiMh)
Battery weight, gm	485
Battery charger type	Intelligent Charger
Battery operating time, hr @ l/min	8 @ 170
Air flow	Preset
Battery warning alarm	Audio
Main filter (Particulate)	Yes
Main filetr (Particulate/Odour)	Yes
ON/OFF control	Push Switch + Dust Cover

2014-07-16 / ESAB reserves the right to alter specifications without prior notice

Ordering Information

Description	Part number	Description	Part number
Warrior™ Tech 9-13 Yellow	0700 000 401	Front Cover Lens Warrior™ Tech	0700 000 010
Sweat Band Warrior™ Tech	0700 000 414	Warrior™ Tech 9-13 Yellow For Air	0700 000 406
Head Gear EXL	0700 000 405	Eco Air Complete	0700 002 175
Inside Cover Lens Warrior™ Tech	0700 000 416	Origo Air Complete	0700 002 100
Note : Warrior™ Tech 9-13 Yellow For Air can be offered with Eco Air Complete or Origo Air Complete.			

Eastern Regional Office
P41 Taratala Road
Kolkata 700 088
Tel : (033) 2401 9671
Fax : (033) 2401 4427
Email : eqptsales.er@esab.co.in

Western Regional Office
501/502, 5th Floor, Sagar Tech-B
Andheri Kurla Road, Saki Naka
Andheri East, Mumbai 400 072
Tel : (022) 2851 7386
Fax : (022) 2852 4974
Email : eqptsales.wr@esab.co.in

Northern Regional Office
239 – 240, DLF Tower
Shivaji Marg, Near Karampura
Crossing, New Delhi 110 015
Tel : (011) 4142 7091
Fax : (011) 4142 7099
Email : eqptsales.nr@esab.co.in

Southern Regional Office
13, Industrial Estate, III Main Road
Ambattur, Chennai – 600 058
Tel : (044) 4340 4809 / 10
Fax : (044) 4340 4811
Email : eqptsales.sr@esab.co.in

Central Regional Office
No. 218, Ashirvad
South Ambazari Road
Bajaj Nagar, Nagpur 440 010
Tel : (0712) 222 9547 / 48
Fax : (0712) 222 9549
Email : eqptsales.cr@esab.co.in

ESAB / esabindia.com
Regd & H. O. : ESAB INDIA LIMITED
13, Industrial Estate, III Main Road
Ambattur, Chennai – 600058
Email: equipment.sales@esab.co.in

COMPANY WITH MANAGEMENT SYSTEM CERTIFIED BY DNV
= ISO 9001 =
= ISO 14001 =
= OHSAS 18001 =

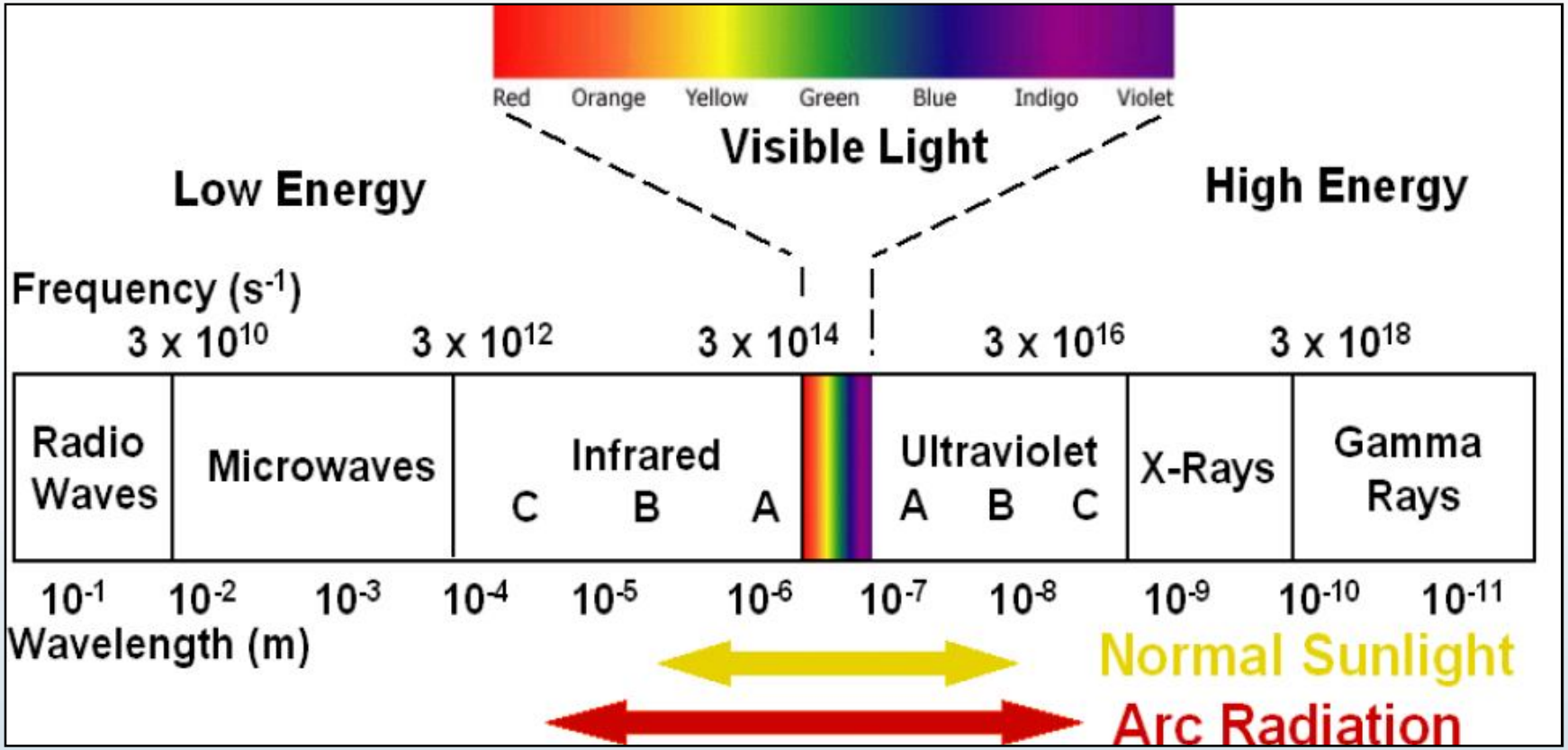
ESAB®

Warrior™ Tech 9-13 and Eco Air

Ergonomic Design
Auto Darkening Helmet with Respiratory System

Need of Welding Helmet

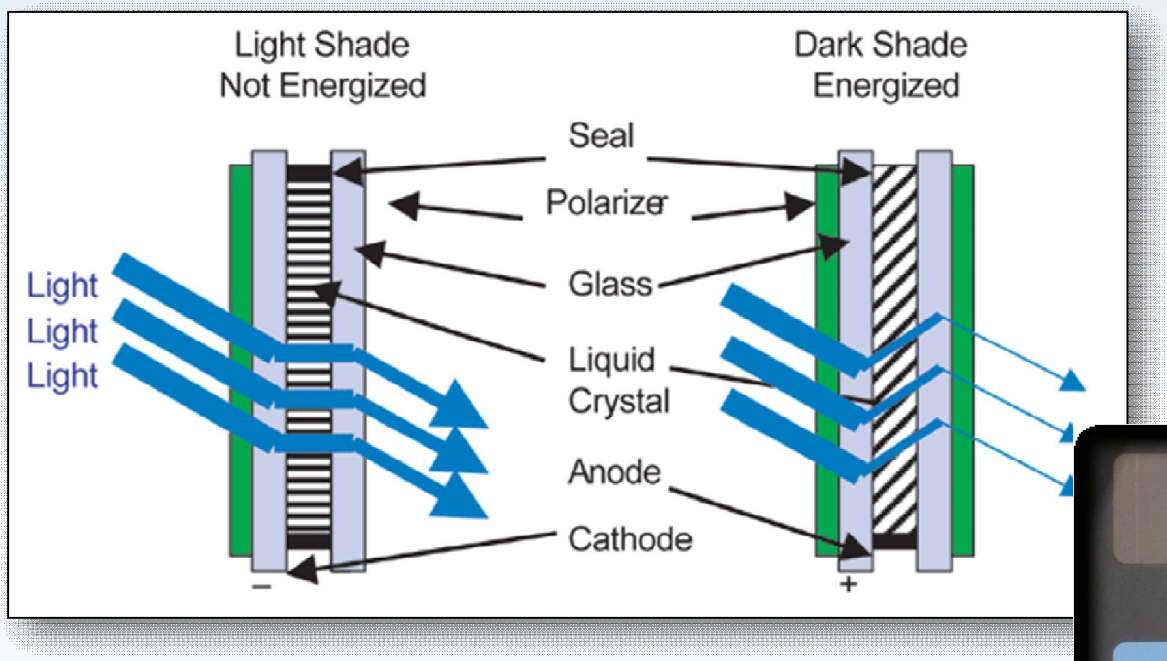
Arc radiation covers a wider frequency than sunlight, which is harmful to the human eye, a welding helmet provides protection to the eye by filtering out the harmful contents by a filter.

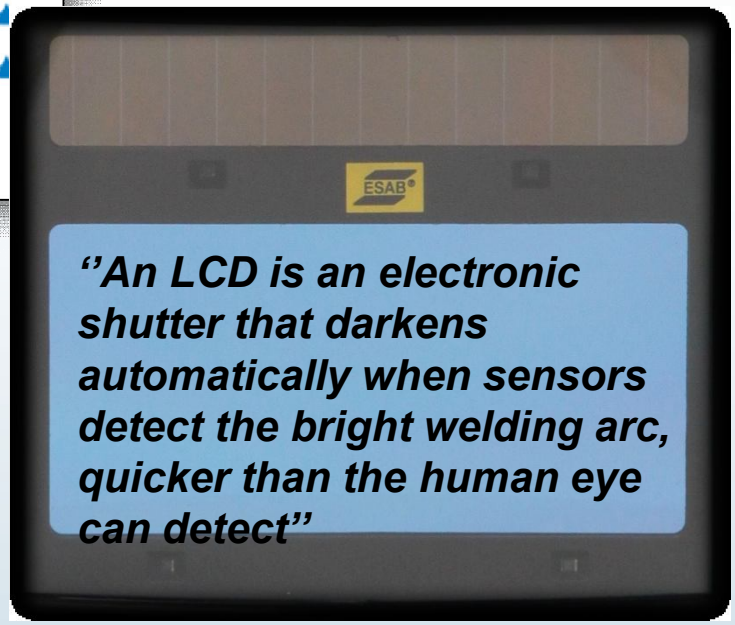


Types of Welding Helmets Active vs. Passive

Passive Helmet	Active Helmet
No / Poor Visibility when welding arc is not present	Clear Visibility when welding arc is not present. Filter is activated on arc striking
Only one Filter lens can be fixed at any point in time	Auto Darkening Filter (ADF) with selection options for 5 filter ratings eg 9-13
Does not need external power to work.	Auto Darkening Filter (ADF), which is an LCD, is powered by a battery

Auto Darkening Filter (ADF)





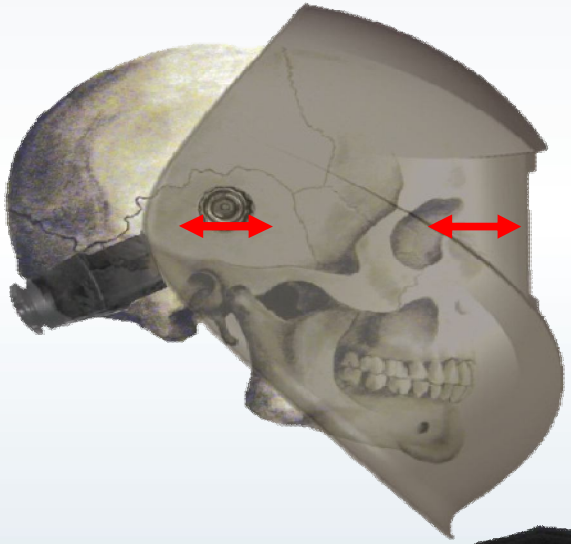
Auto Darkening Helmet Advantages & Benefits

Advantage	Customer Benefit
• Allows welder to keep the helmet down and both hands free when positioning electrode or torch	• Allowing for more accurate welds, and quicker set ups
• Uninterrupted view of work during and between weld	• Less risk for errors, meaning less scrap and rework
• Multiple shade adjustment	• Allows use in all arc welding processes: MMAW, GMAW and GTAW (>5 A).
• ADF helmets have more options for full face respiratory attachments	• Allows welding in areas with poor access & ventilation and enhanced safety from welding fumes
• Reduce Arc-Eye burns	• Less down time due to injuries

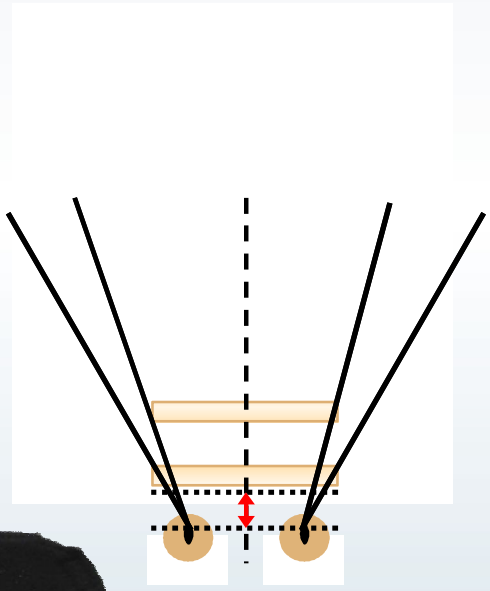
Warrior™ Tech 9-13
Improved Quality & Productivity

Improved Visibility allowing longer welding with more accurate welds, quicker set-ups and lower scrap & re-work

3 Longitudinal Adjustment Positions



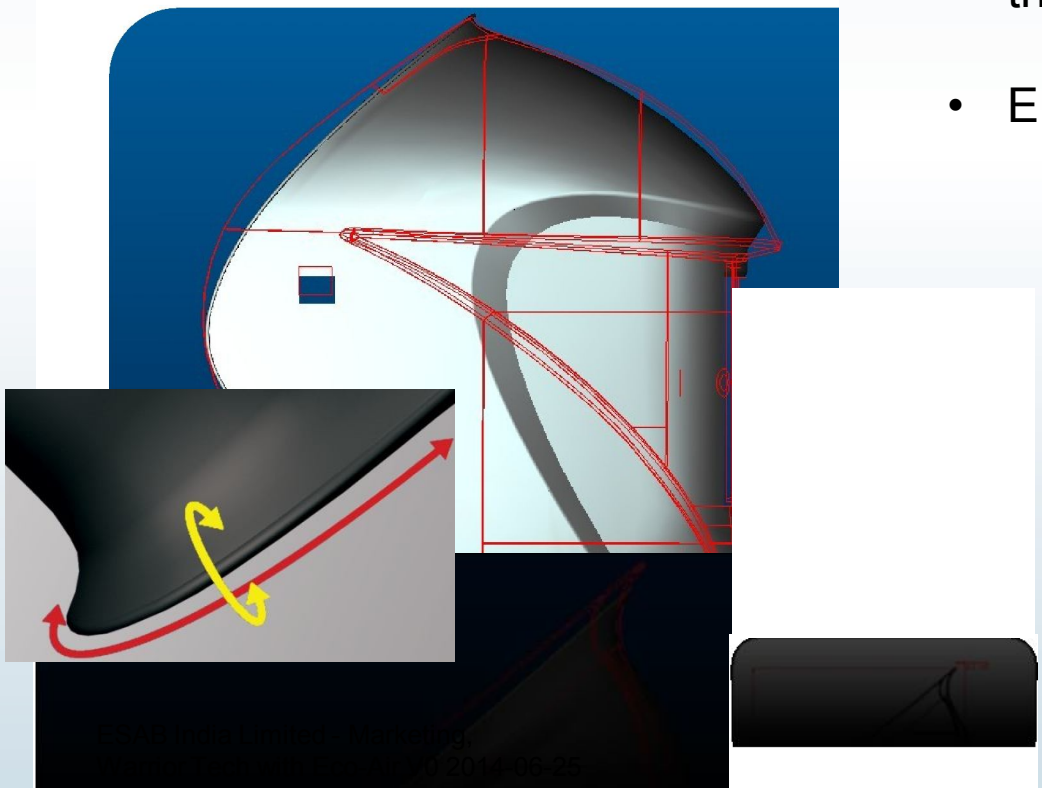
Improved Viewing



New design of Sweat Band for longer working hours

Warrior™ Tech 9-13 Versatile

Warrior™ Tech 9-13 Safety



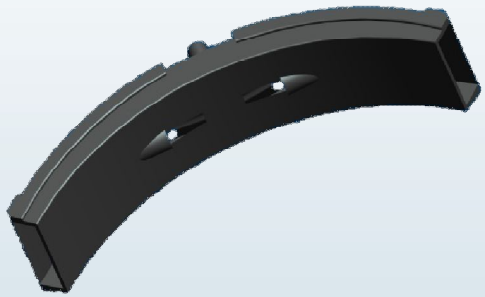
Highlights of the Shell

- Front, side & top protection
- Pivotal headgear position for the perfect balance
- EN 166 B IMPACT rated Shell

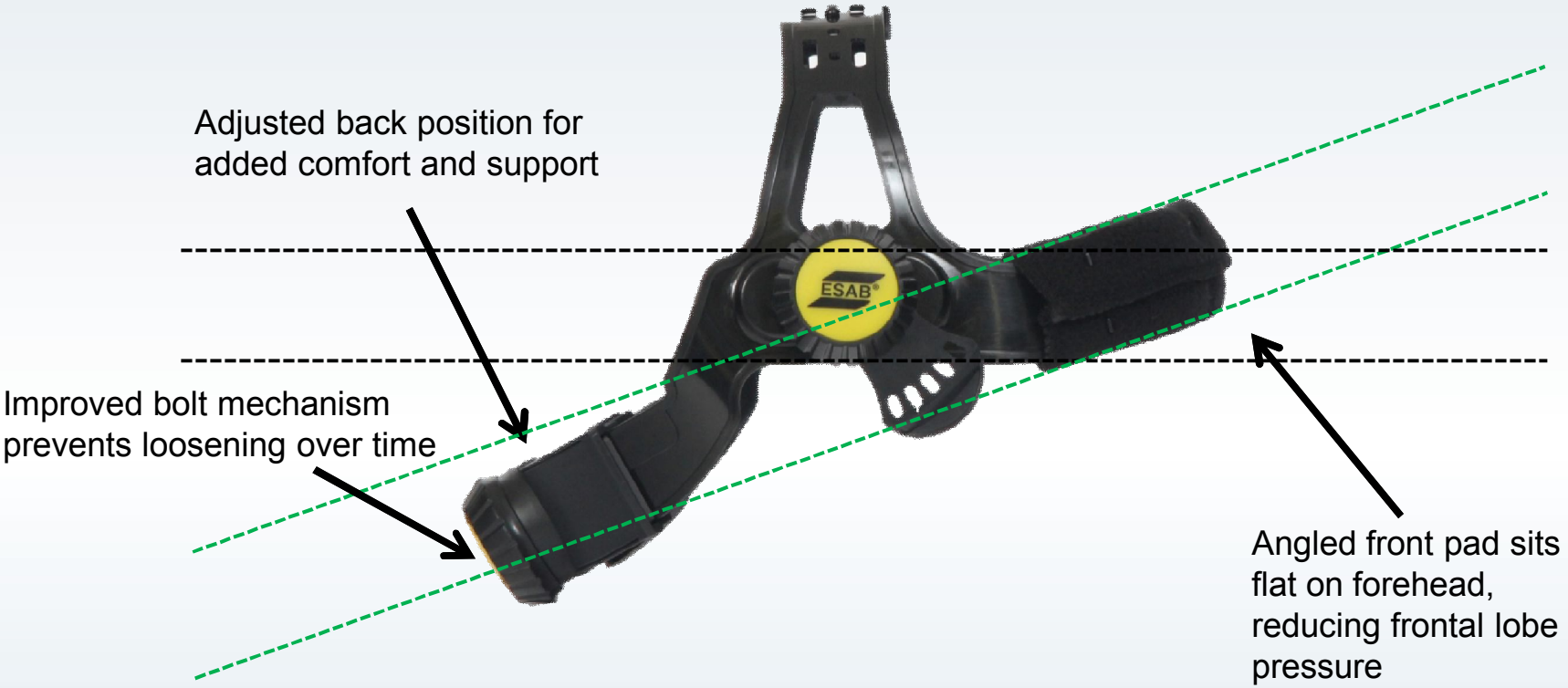
Warrior™ Tech 9-13
Rugged and Reliable

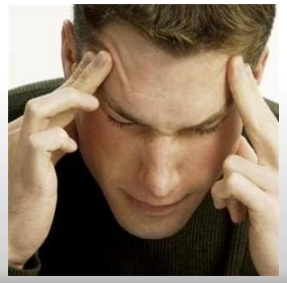
1. Improved design of rear pivot pad in Head Gear
2. Improved design of back plate in Head Gear
3. Strengthened the two pins

Enhanced Life
Easier to change spares



Warrior™ Tech 9-13 User-friendly





Reducing head aches over long periods of time

Weighs only 520g

Warrior™ Tech 9-13 Technical Specifications

WARRIOR™ *Tech*

Optical rating	1/2/1/2
Viewing area:	98 x 48
Switch Speed:	0.3ms
Weight:	**520 g**
Shade setting:	9-13
Sensors	4
Grinding mode:	No
Delay setting:	Internal
Sensitivity:	Internal
Impact rating:	B = Medium impact (Shell)

Eco Air – PAPR
Powered Air Purifying Respirator

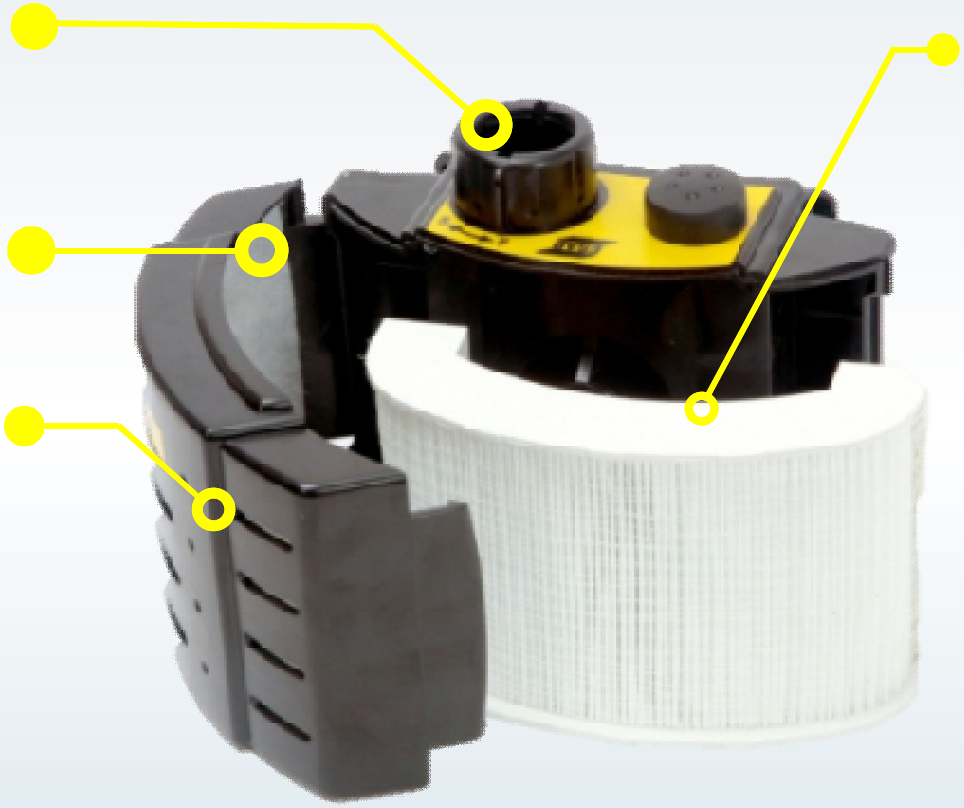
HOSE LOCK

Locking mechanism for added strength

PRE FILTER

Prolonging life of main filter

ROBUST DOOR



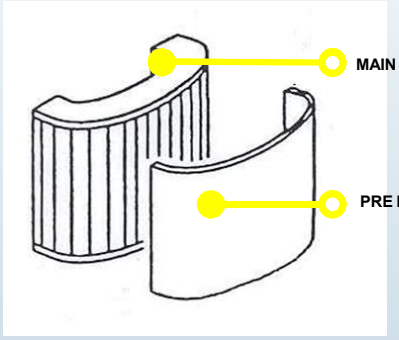
MECHANICAL PARTICULATE PLEATED "PAPER" FILTER THP2/3

(The filter media is made of Glass microfibers ,total filtering surface area is 3600 cm²)

larger filter area means the filter lasts longer , ultimately reducing the consumption for the user.

PRE FILTER

Regular changing of pre-filters will extend the life of the main filter. ESAB recommend that the pre-filter should be changed once per shift **(8hrs).** In a High dust environment, should then be changed more often (2-3times) per shift.



Eco Air – PAPR Technical Specifications

Eco Air

PAPR Dimesnsions, W x H x D, mm	160 x 160 x 87
Unit Weight (Battery + Filter), gm	1000
Battery Weight, gm	485
Battery Type	Nickel Metal Hydride
Battery Charger Type	Intelligent Charger
Battery Operating Time, hr @ l/min	8 @ 170
Air Flow, l/min (min)	170
Air Flow	Preset
Battery Warning Alarm	Audio
Main Filter (Particulate)	Yes
Main Filter (Particulate/Odour)	Yes
ON/OFF Control	Push Switch + Dust Cover

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