

WELDING GEAR 2014

Introducing
Magnetic Tools
Khaki Apparel
Roll Cage™ Welding Rigging Gloves

LINCOLN[®]
ELECTRIC

MAINTENANCE



MAGNETIC FIXTURES AND HAND LIFTERS

Tacking your welds just got easier. Use Lincoln Electric's magnetic angle fixtures to accurately position and hold steel for tacking. Use our new hand lifting devices to handle steel safely at the workplace by minimizing hand contact with hot or sharp-edged steel.

NEW!

Multi Angle Magnetic Fixture

Designed for small steel part fabrication including cutting, grinding, drilling, sanding and tack welding. Clever dual function — a workholding angle tool and a quick connect/disconnect magnetic vise. No batteries or electricity required.

Order: K3309-1



NEW!

Pivot Angle Magnetic Fixture

Designed for repetitive work at uncommon angles. Axis magnets mounted on pivot arms have one work surface on each side, enabling the tool to secure to a table or wall while simultaneously holding the work piece. Convenient single lock handle makes it fast and easy to select an angle. No batteries or electricity required.

Order: K3310-1



NEW!

Mini Multi Angle Fixture

Designed for small steel parts and has a pipe notch for use on round stock. Secures material at multiple angles. No batteries or electricity required.

Order: K3318-1



NEW!

Manual Hand Lifter

Designed for small steel parts lifting and sheet dragging. The handle has fixed or pivoting positions, allowing use as a hand lifter or a sheet dragger. Allows for faster work with fewer injuries and requires no batteries or electricity.

Order: K3311-1



NEW!

Electronic Hand Lifter

This cordless electric hand lifter is designed for small steel part handling and removing parts from burn tables. Includes an important safety feature — the battery power indicator light blinks if the battery requires recharging. Comes complete with an internal 4 volt rechargeable battery and charger.

Order: K3312-1



*See Spec bulletin E14.800 for complete product specifications.

NEW!
NEW!
NEW!
NEW!
NEW!

WELDING GEAR READY-PAK®



GET ALL THE GEAR YOU NEED.

Choose from one of our Welding Gear Ready-Paks® loaded with top-grade personal protection equipment. Designed for professional level fabricators, welding students or the occasional welder.



4 The Fusion of Style and Safety™

NEW!

EVERYTHING A FEMALE PROFESSIONAL FABRICATOR WOULD NEED

- Lincoln® Industrial Duffle Bag
- VIKING™ Jessi vs. The Robot™ 3350 Series Auto-Darkening Helmet
- Jessi Combs Women's Shadow™ FR Welding Jacket
- Jessi Combs MIG/Stick Welding Gloves
- Jessi Combs Steelworker® Gloves
- Women's Starlite® Clear Safety Glasses
- FR Doo Rag

Order:

- K3238-XS JESSI COMB WOMEN'S WELDING GEAR READY-PAK®**
- K3238-S JESSI COMB WOMEN'S WELDING GEAR READY-PAK®**
- K3238-M JESSI COMB WOMEN'S WELDING GEAR READY-PAK®**
- K3238-L JESSI COMB WOMEN'S WELDING GEAR READY-PAK®**
- K3238-XL JESSI COMB WOMEN'S WELDING GEAR READY-PAK®**



LOADED WITH TOP-GRADE EQUIPMENT FOR THE PROFESSIONAL FABRICATOR

- Lincoln® Industrial Duffle Bag
- VIKING™ Black 3350 Series Auto-Darkening Helmet
- Shadow™ Split Leather-Sleeved Jacket
- Premium Leather MIG/Stick Welding Gloves
- Full Leather Steelworker® Gloves
- Finish Line™ Clear Safety Glasses
- Split Leather FR Welding Sleeves
- FR Doo Rag

Order:

- K3236-M PREMIUM WELDING GEAR READY-PAK® - MEDIUM**
- K3236-L PREMIUM WELDING GEAR READY-PAK® - LARGE**
- K3236-XL PREMIUM WELDING GEAR READY-PAK® - EXTRA LARGE**
- K3236-2XL PREMIUM WELDING GEAR READY-PAK® - 2X LARGE**



EVERYTHING A WELDING STUDENT OR OCCASIONAL WELDER NEEDS TO GET STARTED

- Lincoln® Industrial Duffle Bag
- VIKING™ Black 1840 Series Auto-Darkening Helmet
- Traditional FR Cloth Jacket
- Traditional MIG/Stick Welding Gloves
- Full Leather Steelworker® Gloves
- Lincoln® Starlite® Clear Safety Glasses
- FR Doo Rag

Order:

- K3105-M TRADITIONAL WELDING GEAR READY-PAK® - MEDIUM**
- K3105-L TRADITIONAL WELDING GEAR READY-PAK® - LARGE**
- K3105-XL TRADITIONAL WELDING GEAR READY-PAK® - EXTRA LARGE**
- K3105-2XL TRADITIONAL WELDING GEAR READY-PAK® - 2X LARGE**



- K3096-1 LINCOLN® INDUSTRIAL DUFFLE BAG**



WELDING GEAR



WOMEN'S FUSION



DESIGNED WITH WOMEN IN MIND.

Smaller hands, smaller jackets - nothing fits right...until now. Now you don't have to wrestle with oversize jackets and gloves that don't fit. Order our women's sized welding apparel...designed just for women.



NEW!

**VIKING™ 3350 SERIES
JESSI VS. THE ROBOT™**

AUTO-DARKENING WELDING HELMET
Choose this lightweight, comfortable helmet with a Jessi Combs-approved graphic. The 3350 Series Jessi vs. The Robot™ helmet features a large view size of 3.74 x 3.34 in. (95 x 85 mm). External continuous 5-13 shade control makes it easy to adjust on the fly. Pivot style head gear and improved optical clarity helps in every application.

Order: K3372-2

**JESSI VS.
THE ROBOT™**
K3372-2



**JESSI COMBS
AMP ANGEL™**
K3027-2




JESSI COMBS WOMEN'S SHADOW™ WELDING JACKET

Designed specifically to fit women welders, this jacket combines durable split cowhide sleeves with cooling front and back flame retardant cloth panels to offer the right protection for MIG or Stick welding. A flip up collar, adjustable snap sleeves and snap cinch waist keep spatter out and the fit just right. One horizontal flap pocket secures personal items.

Order Information

Part Number/ Size	Bust Measurement in. (cm)	Waist Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K3114-XS	32-36 (81-91)	28-32 (71-81)	28 (71)	27 (68)
K3114-S	36-39 (91-99)	32-34 (81-86)	28 (71)	27 (68)
K3114-M	39-41 (99-104)	34-36 (86-91)	29 (74)	27 (68)
K3114-L	41-43 (104-109)	36-38 (91-96)	30 (76)	27 (68)
K3114-XL	43-46 (109-117)	38-42 (96-107)	31 (79)	27 (68)



Hand Sizing for Women's Gloves 		
Label Size	Hand Size in.	Hand Size cm
XS	7.0	18
S	7.5	19
M	8.0	20

JESSI COMBS MIG/STICK WELDING GLOVES

Now offered in women's sizes, these general purpose gloves are constructed with heat and flame resistant split cowhide for all types of welding. Inside, the gloves feature a 100% soft sweat absorbent cotton lining for added comfort and heat resistance. Kevlar® stitching and welted seams offer added durability and thumb pads in high wear areas extend the work life of the glove.

Size: S, M

Order: K3232-S, K3232-M



JESSI COMBS WOMEN'S STEELWORKER® GLOVES

Sized for women's hands and intended for fabrication work or light welding. Top grain cowhide delivers extra wear and good dexterity. The goat skin back allows the glove to breathe. A padded palm cushions the hand and a hook and loop tabbed wrist closure with expanding elastic band ensures a snug, comfortable fit.

Size: XS, S, M

Order: K3231-XS, K3231-S, K3231-M



WOMEN'S STARLITE® CLEAR SAFETY GLASSES

See Page 19.

Order: K3250-S, K3250-M

Jessi Combs

Metal fabricator, TV personality and fastest woman land speed record holder.





WELDING GLOVES

WELDING GLOVES


Choose the welding or fabrication gloves that are right for the task at hand. Whether you're planning to MIG, TIG or stick weld, or you need to handle hot or rusty material, we have the pair that fits... like a glove.



8 The Fusion of Style and Safety™





Hand Sizing for Mens Gloves 		
Label Size	Hand Size in.	Hand Size cm
S	8.0	20
M	8.5	22
L	9.0	23
XL	9.5	24
2XL	10.0	25

NEW!

ROLL CAGE™ WELDING RIGGING GLOVES

If you handle both welding AND rigging on your marine or construction job site, now you can work with ONE pair of gloves instead of two. Our Roll Cage™ gloves are constructed of durable cowhide, sewn with Kevlar® thread and enhanced with extreme knuckle protection to withstand tough environments.

Size: M, L, XL, 2XL

Order: K3109-M, K3109-L, K3109-XL, K3109-2XL

* See Spec Bulletin MC13-133

PREMIUM LEATHER MIG/STICK WELDING GLOVES

Together, smooth high dexterity grain leather and durable side split cowhide deliver superior comfort and performance. A lined interior and padded palm maximize comfort. The dual lining system extends life in high wear areas. Kevlar® thread provides heat resistance and added seam strength. Forearm coverage is extended for extra spatter protection.

Size: M, L, XL

Order: K2980-M, K2980-L, K2980-XL



TRADITIONAL MIG/STICK WELDING GLOVES

These general purpose gloves are constructed with heat and flame resistant split cowhide for all types of welding. Inside, the gloves feature a 100% soft sweat absorbent cotton lining for added comfort and heat resistance. Kevlar® stitching and welted seams offer added durability and thumb pads in high wear areas extend the work life of the glove.

Size: One size fits all

Order: K2979-ALL





WELDING
APPAREL

RED LINE
WELDING APPAREL™

10 The Fusion of Style and Safety™



LEATHER TIG WELDING GLOVES

Our supple goat skin leather provides the right fit, sensitive feel and durable construction that precise TIG welding demands. The straight thumb design features welted seams and tough Kevlar® stitching to extend service life.

Size: M, L, XL

Order: K2981-M, K2981-L, K2981-XL



HEAT-RESISTANT WELDING GLOVES

Using a multi-layered aluminized PFR Rayon® design, our high heat-resistant gloves reflect 95% of radiant heat to help keep the operator cool. The tough top grain cowhide construction is lined for added comfort. Sewn with Kevlar® thread for maximum strength.

Size: L, XL

Order: K2982-L, K2982-XL



FULL LEATHER STEELWORKER® GLOVES

For fabrication work or light welding. Top grain cowhide leather delivers excellent fit and dexterity while the goat skin back allows the glove to breathe. The palm is padded for comfort and the hook and loop soft rubber tabbed wrist closure with non-constricting elastic band ensures a snug, comfortable fit.

Size: S, M, L, XL, 2XL

Order: K2977-S, K2977-M, K2977-L, K2977-XL, K2977-2XL





WELDING APPAREL

WELDING JACKETS

Welding apparel has come a long way. . . it's no longer one size fits all. Today, it's all about technical garments for specialized tasks. Flame retardant cloth helps keep you cool. Heavy duty leather panels resist wear in all the right places. It's pedal to the metal protection.



CUSTOM EMBROIDERY AVAILABLE!

Get customized Red Line™ apparel for your school or shop, or personalize it just for you.

Add custom single or multi-color logos to Red Line™ FR cloth jackets, welding shirts or lab coats.

Depending on the item selected, the sleeve logo location may or may not be available. Price varies with quantity ordered. Initial order will include a one-time setup charge.

Order through the web:
www.lincolnelectric.logoshop.com



Choose Right Chest Location

Choose Left Sleeve Location

SHADOW™ GRAIN LEATHER-SLEEVED JACKET

Choose our full grain leather sleeve model with a flame retardant 100% cotton chest for added comfort and dexterity when MIG or stick welding. The flip up collar is secured with adjustable hook and loop. The front panel is secured by snaps with an extra flap for full closure. Horizontal hip pockets securely stow personal items.



Order Information

Part Number/ Size	Chest Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K2987-M	40-42 (102-107)	31 (79)	30 (76)
K2987-L	44-46 (112-117)	32 (81)	31 (79)
K2987-XL	48-50 (122-127)	33 (84)	32 (81)
K2987-XXL	52-54 (132-137)	34 (86)	33 (84)
K2987-XXXL	56-58 (142-147)	35 (89)	34 (86)

SHADOW™ SPLIT LEATHER-SLEEVED JACKET

Durable split cowhide sleeves, combined with cool flame retardant material on the chest, offer extra protection for MIG or stick welding. A flip up collar is secured by hook and loop and a lined flap on the back snaps closed for extra protection. Two horizontal hip pockets with hook and loop secured flaps stow your personal items.



Order Information

Part Number/ Size	Chest Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K2986-M	40-42 (102-107)	31 (79)	30 (76)
K2986-L	44-46 (112-117)	32 (81)	31 (79)
K2986-XL	48-50 (122-127)	33 (84)	32 (81)
K2986-XXL	52-54 (132-137)	34 (86)	33 (84)
K2986-XXXL	56-58 (142-147)	35 (89)	34 (86)
K2986-5XL	60-66 (152-168)	35 (89)	34 (86)



HEAVY DUTY LEATHER WELDING JACKET

Our heavy duty side split cowhide leather chest and sleeves provide superior protection for stick welding, while the flame retardant cloth back keeps you cool. As an added measure of spatter protection, the flip up collar is secured by hook and loop while the front jacket closure features a lined flap secured by a series of snaps. An inside pocket protects personal items.

Order Information

Part Number/ Size	Chest Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K2989-M	40-42 (102-107)	31 (79)	30 (76)
K2989-L	44-46 (112-117)	32 (81)	31 (79)
K2989-XL	48-50 (122-127)	33 (84)	32 (81)
K2989-XXL	52-54 (132-137)	34 (86)	33 (84)
K2989-XXXL	56-58 (142-147)	35 (89)	34 (86)



TRADITIONAL SPLIT LEATHER-SLEEVED JACKET

Split cowhide sleeves resist spatter and add durability, while 9 oz. 100% flame retardant material on the chest and back keep you cool. This basic jacket features an inside pocket and adjustable snap sleeves.

Order Information

Part Number/ Size	Chest Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K3106-M	40-42 (102-107)	31 (79)	30 (76)
K3106-L	44-46 (112-117)	32 (81)	30 (76)
K3106-XL	48-50 (122-127)	33 (84)	30 (76)
K3106-2XL	52-54 (132-137)	34 (86)	30 (76)
K3106-3XL	56-58 (142-147)	35 (89)	30 (76)



NEW!

TRADITIONAL FR CLOTH JACKET

100% flame retardant material offers protection for light duty welding. An inside pocket stows personal items. Machine washable. Now available in both black and khaki.

Order Information

Khaki Part Number/ Size	Black Part Number/ Size	Chest Measurement in. (cm)	Jacket Sleeve in. (cm)	Jacket Torso in. (cm)
K3317-M	K2985-M	40-42 (102-107)	31 (79)	30 (76)
K3317-L	K2985-L	44-46 (112-117)	32 (81)	30 (76)
K3317-XL	K2985-XL	48-50 (122-127)	33 (84)	30 (76)
K3317-2XL	K2985-XXL	52-54 (132-137)	34 (86)	30 (76)
K3317-3XL	K2985-XXXL	56-58 (142-147)	35 (89)	30 (76)





SPLIT LEATHER WELDING APRON

Add to your welding jacket when additional protection is required or use for light welding over clothing. The apron features heavy split cowhide and an adjustable harness system for proper fit and weight displacement. One size fits all.

Order: K3110-ALL

FR WELDING LAB COAT

Ideal for instructors, supervisors and occasional welders. The knee length black 9 oz. 100% flame retardant material coat offers protection for light duty welding. Two hip and one chest pocket stow chalk, grease pens or other items.

Order Information

Part Number/ Size	Chest Measurement in. (cm)	Coat Sleeve in. (cm)	Coat Length in. (cm)
K3112-M	40-42 (102-107)	31 (79)	45 (114)
K3112-L	44-46 (112-117)	32 (81)	45 (114)
K3112-XL	48-50 (122-127)	33 (84)	45 (114)



NEW!

FR WELDING SHIRT

Add breathable light welding protection with a 9 oz. 100% flame retardant material black welding shirt. Now available in both black and khaki. Black shirt features two chest pockets with flaps and a pencil holder slot. The khaki shirt features one pocket with a flap and pencil holder.

Order Information

Khaki Part Number/ Size	Black Part Number/ Size	Chest Measurement in. (cm)	Shirt Sleeve in. (cm)	Shirt Torso in. (cm)
K3382-M	K3113-M	40-42 (102-107)	32 (81)	32 (81)
K3382-L	K3113-L	44-46 (112-117)	33 (84)	33 (84)
K3382-XL	K3113-XL	48-50 (122-127)	34 (86)	34 (86)
K3382-2XL	K3113-2XL	52-54 (132-137)	35 (89)	35 (89)
-	K3113-3XL	56-58 (142-147)	36 (91)	36 (91)



SPLIT LEATHER FR WELDING SLEEVES

Slip on a pair of welding sleeves for added spatter and heat resistance. These black sleeves feature 9 oz. 100% flame retardant material where possible to keep you cool, but include split leather panels in high wear areas. Elastic cuffs at each end keep spatter out and hold the sleeves in position.

Sleeve length 21.0 in. (53 cm)

Order: K3111-ALL



ALL
 NEW
 PRODUCTS



CAPS & DOO RAGS

CAPS & DOO RAGS

You can't forget to protect the top of your head. Line your helmet with a welding cap, beanie or doo rag.

You'll be glad you did.



16 The Fusion of Style and Safety™



FR DOO RAG

Let your Lincoln Electric colors show! This premium doo rag, made of 9 oz. flame retardant material, features an athletic mesh lining for fast sweat evaporation. Machine washable.

One size fits all.

Order: K2993-ALL



ALL AMERICAN™

DOO RAG

Our 100% cotton All American™ Doo Rag matches the All American™ helmet graphic. It includes an athletic mesh lining for fast sweat evaporation. Machine washable. Hot hand washing recommended.

One size fits all.

Order: K3204-ALL



ALL AMERICAN™

WELDING CAP

For a fully coordinated look, choose the 100% cotton All American™ Doo Rag to go with the All American™ helmet graphic. An air-cushioned insert surrounds the inside of the cap for maximum sweat absorbency and the high crown design aids ventilation. Seams are flat-stitched for superior comfort. Machine washable. Hot hand washing recommended.

One size fits all.

Order: K3203-ALL



FR WELDING BEANIE

Protect your head with this authorized Lincoln Electric flame retardant beanie. Machine washable.

One size fits all.

Order: K2994-L

K2994-XL



Head Sizing		
Label Size	Head Circumference Measured	Hat Size
L	22.0-23.0 in. (56-58 cm)	7 - 7 3/8
XL	23.0-24.4 in. (58-61 cm)	7 3/8 - 7 3/4

Note:

Head size is equal to the circumference of your head in inches and then divided by 3.14.

DOO RAGS & CAPS



PADDED SAFETY GLASSES

For long hours on the job, some operators prefer clear safety glasses with a soft non-slip goggle-style strap. This model also features a 360° foam liner to keep dust from your eyes and increase long-term comfort. Meets ANSI Z87.1 and CSA Z94.3

Order: K3119-1



FACE SHIELD

Add a face shield to your personal protection arsenal for grinding, polishing, deburring and other operations. This shield features a clear impact resistant shield that wraps around the entire face. Meets ANSI Z87.1 and CSA Z94.3

Order: K3120-1

REPLACEMENT FACE SHIELD LENS

Order: KP3164-1



SHADE 5 CUTTING AND GRINDING GOGGLES

Select these premium full coverage shade 5 goggles for plasma and oxy-fuel cutting operations and most grinding tasks. These goggles provide a 100% surface seal on your face to keep sparks, spatter particles, sand, dirt and heat away from your eyes. Meets ANSI Z87.1

Order: K3118-1



SHADE 3 CUTTING AND GRINDING GOGGLES

Select this industrial shade 3 goggle model for chipping, grinding and machining operations. Protects your face from sparks, spatter, particles, sand, dirt and heat. Meets ANSI Z87.1 and CSA Z94.3.

Order: K3118-2

FACIAL PROTECTION

When it comes to personal protection equipment, protecting your eyes is usually considered job number one. With Red Line™ safety apparel, you can choose among a number of goggle, face shield and safety glass options. All are designed to protect your eyes. Some will also enhance your personal style on the job, on your break or after hours.

All eyewear offers 99.9% UV-A, UV-B and UV-C protection.



CLEAR



FINISH LINE™ CLEAR SAFETY GLASSES

This stylish, lightweight half-frame design offers durable indoor eye safety protection. The frames include a flexible nosepiece and two-color temple tips. A special anti-fog coating has been added to reduce lens fogging.

Meets ANSI Z87.1+ and CSA Z94.3

Order: **K2966-1**

NEW!

WOMEN'S STARLITE® CLEAR SAFETY GLASSES

These women's glasses are sized 10% smaller than our similar models. The pink temple pieces make the glasses easy to locate and attractive to wear. The unitary frameless clear lens style provides a wide field of vision and the frames are lightweight enough for all day wear. Includes anti-fog and anti-scratch coatings. Meets ANSI Z87.1+ and CSA Z94.3.

Order: **K3250-S, K3250-M**



LINCOLN® STARLITE® CLEAR SAFETY GLASSES

These sleek, compact indoor glasses are extremely lightweight and durable. The unitary frameless clear lens style provides a wide field of vision, and their lightweight make the glasses easy to wear. A special anti-fog coating has been added to reduce lens fogging.

Meets ANSI Z87.1+ and CSA Z94.3

Order: **K2965-1**



TRADITIONAL LINCOLN® CLEAR SAFETY GLASSES

Select this compact unitary frameless clear lens design for lightweight all day wear at the lowest possible cost. One size fits all.

Meets ANSI Z87.1

Order: **K3104-1**



LINCOLN® COVER2® SAFETY GLASSES

Wear over your own prescription glasses to protect your eyes and eyewear. The lightweight indoor design features ratcheting adjustable-length temples, an integrated brow guard and side shields to offer added impact protection.

Meets ANSI Z87.1+ and CSA Z94.3

Order: **K2968-1**



BIFOCAL SAFETY GLASSES

When you need a little help reading or viewing close work, reach for a pair of Bifocal Safety Glasses, available in a choice of popular diopter levels. This model features full eye coverage and added slip-resistant temple tips.

Meets ANSI Z87.1

Order:

K3117-100	1.0 DIOPTER
K3117-150	1.5 DIOPTER
K3117-200	2.0 DIOPTER
K3117-250	2.5 DIOPTER

StarLite® and Cover2® are registered trademarks of Gateway Safety®, Inc. All rights reserved.



MIRROR



FINISH LINE™ OUTDOOR SAFETY GLASSES
Stylish, lightweight half-frame design offers durable eye safety protection with a red mirror lens for outdoor protection from the sun. The frames include a flexible nosepiece and two-color temple tips.
Meets ANSI Z87.1+ and CSA Z94.3
Order: K2970-1



LINCOLN® STARLITE® OUTDOOR SAFETY GLASSES

These compact outdoor glasses add a silver mirror coating to the lens for protection from the sun. The unitary frameless clear lens style provides a wide field of vision, and their light weight make the glasses easy to wear.
Meets ANSI Z87.1+ and CSA Z94.3
Order: K2969-1



I-BEAM™ RED OUTDOOR SAFETY GLASSES
These red wraparound outdoor frames with a silver mirror lens resemble stylish sunglasses while offering sun and work safety protection. The sturdy four-sided I-Beam™ frame weighs just one ounce, yet provides durable impact protection. I-Beam™ frames feature a flexible nosepiece and temple tips for added comfort.
Meets ANSI Z87.1+ and CSA Z94.3
Order: K2972-1



I-BEAM™ BLACK OUTDOOR SAFETY GLASSES
These black wraparound outdoor frames with a red mirror lens resemble stylish sunglasses while offering sun and work safety protection. The sturdy four-sided I-Beam™ frame weighs just one ounce, yet provides durable impact protection. I-Beam™ frames feature a flexible nosepiece and temple tips for added comfort.
Meets ANSI Z87.1+ and CSA Z94.3
Order: K2971-1

SH-DADED



LINCOLN® STARLITE® IR 5 SAFETY GLASSES
Compact glasses are formulated with a shade 5 infra-red protection intended for grinding and cutting. The unitary frameless lens style provides a wide field of vision, making the glasses easy to wear.
Meets ANSI Z87.1+ and CSA Z94.3
Order: K2967-1



SALES

NEW!

VIKING™ WELDING HELMETS

INDUSTRY- LEADING OPTIC QUALITY 1/1/1/1

The NEW VIKING™ auto-darkening cartridges offer a 1/1/1/1 optical clarity rating. The ratings correspond to four very important optical categories.

Each category is graded on a scale of 1-3, with a score of 1 being the best and 3 being the lowest quality. The VIKING™ upgraded line offers a perfect 1/1/1/1 clarity rating.

TOP LEVEL QUALITY ON FOUR PARAMETERS

The four optical clarity categories are:

- **Optical Class** - A clear crisp image to help view the weld puddle.
- **Diffusion of Light Class** - Absence of hazing for a clear view of the welding arc.
- **Variations in luminous transmittance** - Shade consistency across the lens for safe viewing.
- **Angle dependence of luminous transmittance class** - Cartridge retains shading when viewed at an angle to always protect the welder.

PREVIOUS 1/2/1/1 OPTICAL CLARITY (3350 SERIES SHOWN)



NEW 1/1/1/1 OPTICAL CLARITY (3350 SERIES SHOWN)



Colors are More Vibrant
Vision is More Clear

Less Angle Distortion

NOTE: The illustrations above represent the improved clarity possible with the latest VIKING helmets. Visit your local Lincoln Electric distributor to view the upgraded VIKING clarity under actual welding conditions.

VIKING WELDING HELMETS

3350 SERIES



MOTORHEAD™
K3100-2



CODE RED™
K4034-2

**JESSI VS.
THE ROBOT™**
K3372-2

3350 TRIBAL™
K3074-2

3350 BLACK
K3034-2

TERRACUDA™
K3039-2



MOJO™
K3101-2

**3350 ALL
AMERICAN™**
K3175-2

**TWISTED
METAL™**
K3248-2

**POLAR
ARC™**
K3255-2

3350 Series Helmets

Select a 3350 Series helmet to gain protected internal shade control, a generous view size and a standard size cartridge.

- NEW!** • 1/1/1 Improved Optical Clarity and Enhanced Color Recognition
- NEW!** • 3 Year Warranty
- NEW!** • Pivot Style Headgear
- Large U.S. 5.25 x 4.5 in. (133 x 114 mm) Cartridge Size

- Continuously Variable 5-13 Shade with Internal Control
- Continuously Variable Sensitivity and Delay
- Grind Mode
- Magnifying 'Cheater' Lens Capability
- 4 arc sensors
- Solar cells with a replaceable lithium battery
- 3.74 x 3.34 in. (95 x 85 mm) view size
- Hard Hat Adapter Capable

VIKING
WELDING HELMETS
2450
SERIES



GRAVEYARD SHIFT™
K3099-2



STREET ROD™
K3035-2



2450 BLACK
K3028-2



HEAVY METAL™
K3029-2



2450 ALL AMERICAN™
K3174-2

2450 Series Helmets

Select a 2450 Series helmet to gain protected internal shade control, a generous view size and a standard size cartridge.

- NEW!** • 1/1/1 Improved Optical Clarity and Enhanced Color Recognition
- NEW!** • 3 Year Warranty
- NEW!** • Pivot Style Headgear
- Large U.S. 5.25 x 4.5 in. (133 x 114 mm) Cartridge Size

- Continuously Variable 5-13 Shade with Internal Control
- Continuously Variable Sensitivity and Delay
- Grind Mode
- Magnifying 'Cheater' Lens Capability
- 4 arc sensors
- Solar cells with two replaceable lithium batteries
- 3.82 x 2.44 in. (97 x 62 mm) view size
- Hard Hat Adapter Capable

THE
NEW
DYNAMIC
S

VIKING WELDING HELMETS

1840 SERIES



TRIBAL™
K3024-2



**JESSI COMBS
AMP ANGEL™**
K3027-2



1840 BLACK
K3023-2



**1840 ALL
AMERICAN™**
K3173-2

1840 Series Helmets

If you prefer external shade control for on the fly changes, select a compact 1840 Series helmet with a DINS-sized cartridge.

- NEW!** • 1/1/1 Improved Optical Clarity and Enhanced Color Recognition
- NEW!** • 3 Year Warranty
- NEW!** • Pivot Style Headgear
- Compact DINS 4.33 x 3.54 in. (110 x 90 mm) Cartridge Size

- Continuously Variable 9-13 Shade with External Control
- Continuously Variable Sensitivity and Delay
- Grind Mode
- Magnifying 'Cheater' Lens Capability
- 2 arc sensors
- Solar cells with a replaceable lithium battery
- 3.78 x 1.85 in. (96 x 47 mm) view size
- Hard Hat Adapter Capable

NEW! INDUSTRIAL PASSIVE

Go old school with our passive welding helmet

- Low cost, low tech, high value
- Lens Size – 5.25 x 4.5 in. (133 x 114 mm)
- Shade 11 Lens
- Magnifying 'Cheater' Lens Capability
- Hard Hat Capability
- Traditional Style Headgear
- 2 Year Warranty



**INDUSTRIAL
PASSIVE™**
K3371-1

NEW!

VIKING™
WELDING HELMETS

1740 SERIES

1740 Series Helmets

There's no shortage of features on our new economically priced 1740 series helmet.

- Compact DINS 4.33 x 3.54 in. (110 x 90 mm) Cartridge Size
- Continuously Variable 9-13 Shade with Internal Control
- Continuously Variable Sensitivity and Delay
- Grind Mode Shade 4
- Magnifying 'Cheater' Lens Capability



1740 BLACK
K3282-1

- 2 Arc Sensors
- Solar powered with two replaceable AAA Alkaline batteries
- 3.78 x 1.67 in. (96 x 42.5 mm) View Size
- Hard Hat Capable
- 1/1/1/2 Optical Class
- Traditional Style Headgear
- 2 Year Warranty
- Matte Finish

NEW!

VIKING™
WELDING HELMETS

2450D DIGITAL SERIES

2450D DIGITAL SERIES AUTO-DARKENING HELMET

Are you ready to go digital? Access three modes – Welding, Cutting and Grind – using an easily understood LCD screen interface. Protected buttons are easy to use with gloved hands. Just one helmet, one cartridge, produces a full spectrum Shade 4-13 with variable sensitivity and delay.

- NEW!** • 1/1/1/1 Improved Optical Clarity and Enhanced Color Recognition
- NEW!** • 3 Year Warranty
- NEW!** • Pivot Style Headgear
- Large U.S. 5.25 x 4.5 in. (133 x 114 mm) Cartridge Size
- 3.82 x 2.44 in. (97 x 62 mm) View Size
- Large inside LCD screen provides intuitive helmet status information



2450D BLACK
K3230-2

- Three modes – Welding, Cutting, Grind
- Select Variable Shade 9-13 for Welding and 5-8 for Cutting, each with Variable Sensitivity and Delay
- Grind Mode fixes the helmet in a constant shade 4
- 4 arc sensors
- Solar Cells with two replaceable CR2450 lithium batteries
- Magnifying 'Cheater Lens' Capability
- Hard Hat Adapter Capable



WELDING BRUSHES

Your welds will never be as good as they can be without proper cleaning of the base material before you start and between each pass. To avoid contamination that will ruin your good work, it's also important to have different brushes for different materials – Tempered steel for carbon steel, stainless for stainless and brass for aluminum.

Invest in a good set of brushes to improve your weld quality and appearance. You'll appreciate the difference.



FOR STAINLESS STEEL & ALUMINUM WELDING

3 X 7 ROW STAINLESS STEEL WIRE BRUSH

This handy toothbrush style is just right for light cleaning on stainless steel in confined or hard to reach areas. Length: 7.5 in. (191 mm)

Order: K3179-1

2 X 9 ROW STAINLESS STEEL WIRE BRUSH

A slight curve in the handle improves grip. Choose for general light cleaning on stainless steel. Length: 8.5 in. (216 mm)

Order: K3180-1

3 X 19 ROW STAINLESS STEEL WIRE BRUSH

This general purpose brush is intended for long life and efficient surface cleaning on stainless steel. Length: 13.75 in. (349 mm)

Order: K3181-1



FOR ALLOY WELDING

3 X 7 ROW BRASS WIRE BRUSH FOR ALUMINUM

This compact toothbrush style can be used for light cleaning on aluminum in confined or hard to reach areas. Brass bristles are easy on aluminum surfaces. Length: 7.5 in. (191 mm)

Order: K3182-1

2 X 9 ROW BRASS WIRE BRUSH FOR ALUMINUM

The slightly curved handle improves grip for general light cleaning on aluminum. Brass bristles gently remove oxide layer on aluminum. Length: 8.5 in. (216 mm)

Order: K3183-1



FOR CARBON STEEL WELDING

3 X 19 ROW CARBON STEEL WIRE BRUSH

Select this popular tempered steel bristle pattern for efficient general cleaning on carbon steels. Length: 13.75 in. (349 mm)

Order: K3184-1

4 X 16 ROW CARBON STEEL WIRE BRUSH

Tempered steel bristles make fast work of rust, mill scale and paint on carbon steels. Comfortable curved handle. Length: 9.5 in. (241 mm)

Order: K3185-1



COMBINATION PACKS

WIRE BRUSH THREE PACK

This compact toothbrush style set is easy to stow in your bag and perfect for small projects. Includes brass bristle brush for aluminum, stainless bristle brush for stainless steel and a nylon bristle brush for general cleaning on carbon steel. Length: 7.5 in. (191 mm)

Order: K3189-1





WELDING
BLANKETS
AND
CURTAINS

WELDING CURTAINS AND BLANKETS

Sometimes when you're cutting or welding, you need to reach for something to protect component parts, flooring or nearby equipment from heat and spatter. Next time, reach for Welding Blankets and Curtains from Lincoln Electric to protect car fenders, tanks, equipment or the environment around you.



WELDING CURTAIN

6 X 6 FT. (1.8 X 1.8 M), RATED 1022° F (550° C)

Intended to be hung vertically in light to moderate exposure applications. Protects workers, equipment or work area and safely confines welding sparks, spatter and grinding particulate. The fiberglass-based material is hemmed with high-strength fiberglass thread. Includes heavy duty grommets on all four sides. 18 oz./yd² material weight. FM approved for ANSI/FM 4950 Welding Curtains.

Order: K3252-1

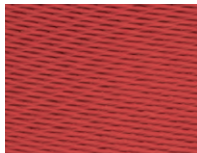


WELDING BLANKET

6 X 6 FT. (1.8 X 1.8 M), RATED 1022° F (550° C)

Use horizontally in light to moderate exposure applications to protect autos, equipment or work area. Blanket confines welding sparks, spatter and grinding particulate. The fiberglass-based material is hemmed with high-strength fiberglass and Kevlar® thread. Includes heavy duty grommets on all four sides. 38 oz./yd² material weight. FM approved for ANSI/FM 4950 Welding Blankets.

Order: K3253-1



WELDING BLANKET - HIGH TEMPERATURE

6 X 6 FT. (1.8 X 1.8 M), RATED 2012° F (1100° C)

Use horizontally in moderate to high heat exposure applications to protect equipment or work area. Blanket confines heat, welding sparks, spatter and grinding particulate. The fiberglass-based, mica-coated material with high-strength fiberglass and Kevlar® thread. Includes heavy duty grommets on all four sides. 67 oz./yd² material weight. FM approved for ANSI/FM 4950 Welding Blankets.

Order: K3254-1



BE
M
Y
M
P
G
S



HYDROGUARD™ ROD OVENS

HYDROGUARD™ ROD OVENS

Critical projects demand precise control over the arc. In fact, code requirements in the power generation, shipbuilding and construction industries often require the use of a rod oven to help prevent moisture pick up in stick electrode. On many projects, you may only have one chance. Get it right the first time.

HydroGuard™ rod ovens – Simple. Reliable.





HYDROGUARD™ ROD CANISTER

Protect and carry 10 lbs. (4.5 kg) of stick electrode up to 14.0 in. (355.6 mm) in length. A rubber seal makes the container moisture-resistant.

Order: K3166-1



HYDROGUARD™ CANISTER STRAP

Order: K3167-1



HYDROGUARD™ PORTABLE WELDING ROD OVEN

For single operators on the go, this compact design makes it easy to transport a maximum of 10 lbs. (4.5 kg) of up to 18 in. (46 cm) electrode to a work station or job site. The substantial insulation layer helps maintain electrodes at a constant 300° F (149° C) temperature. It includes a Rod Elevator to extract your stick electrode and a Power On light to visually confirm operation.

Order: K2939-1 115/120/1/50/60 input power

Order: K2939-2 208/230/240/1/50/60 input power



HYDROGUARD™ BENCH ROD OVEN

Schools, fabrication shops and maintenance teams will appreciate the extra capacity and features of this 350 lb. (159 kg) capacity bench model. It can handle stick electrodes up to 18 in. (46 cm) in length. This model features a recessed adjustable thermostat to regulate temperature from 100-550° F (38-228° C) and a variable moisture vent to regulate moisture levels. Inside, the shelves are removable to allow for pre- or post-heating of welded parts. Outside, an added horizontal surface provides a handy shelf.

Order: K2942-1 115/120/1/50/60 input power

Order: K2942-2 240/480/1/50/60 input power



RECOMMEND ACCESSORIES:

THERMOMETER KIT

Order: K3148-1

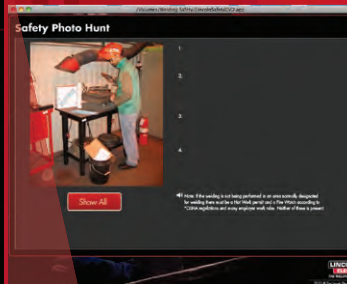
Note: Data Logger Capable.

WELDING
SOLUTIONS

FREE Welding Safety Interactive DVD



Safety Photo Hunt Section



MC10-92: Welding Safety Interactive DVD



The innovative Lincoln Electric Welding Safety Interactive Training Program is designed to educate arc welders about the safety hazards they may encounter while arc welding and the safe practices they should follow to minimize those hazards.

The content in the program is designed to be understood by welders at all experience levels, including welding instructors and students, casual welders, professional welders and their supervisors and employers. Even experienced professionals will learn something new.

The Welding Safety Interactive DVD includes more than 120 frequently asked questions about welding safety and a safety photo hunt section, which is a series of arc welding task photos. Each contains a questionable welding practice that viewers are asked to identify. To order, visit the Literature Request page at www.lincolnelectric.com and request MC10-92. Or visit: www.lincolnelectric.com/safety



CUSTOMER ASSISTANCE POLICY

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com for any updated information.

Red Line™ apparel products are warranted against manufacturing defects. Because applications vary, it is the user's responsibility to select the right product for each application. Red Line™ apparel products are not subject to warranty after use.

Red Line™ safety glasses products are warranted to be free from manufacturing defects.

Red Line™ ALL FR cotton only apparel good for 25 commercial or 50 standard washings. Leather products are not machine washable.

The Lincoln Electric Company
22801 St. Clair Avenue • Cleveland, OH • 44117-1199 • U.S.A.
PH: +1.216-481-8100 • www.lincolnelectric.com