

WIRE WIZARD
WELDING PRODUCTS

POWERBALL[®]

TORCH PRODUCTS

HIGH PERFORMANCE WELDING GUNS, CONSUMABLES & CABLES



PROUDLY MADE

WELDERS CAN FEEL, HEAR & SEE THE DIFFERENCE!

**IF IT TOUCHES THE WIRE,
THE WIZARD HAS A SOLUTION!**



MIG & SAW WIRE DELIVERY EQUIPMENT

Wire Wizard® Welding Products has developed the world's largest line of wire delivery equipment for arc welding applications. Our extensive product line includes all wire delivery equipment required to get the wire from the package to the torch. Innovative products such as the Wire Guide Module® System, Wire Pilot® Feed Assist and low friction weld wire conduit and torch liners are designed to ensure smooth wire delivery for consistent welding performance. Wire delivery equipment is available for both MIG and SAW welding applications, for all types of wire packaging.



ROBOTIC MIG WELDING PERIPHERALS

Wire Wizard® offers a complete line of robotic MIG welding peripherals. Torch Wizard® Robotic Nozzle Cleaning Stations assist in maintaining welding productivity by quickly and efficiently removing spatter build-up to extend consumable life. An enclosed operating environment and high torque motor ensure efficient and reliable operation with a long service life. WizardGear™ Cable Management products provide organization and protection for lines and cables attached to robots in harsh industrial environments. The new Weld Central® Weld Process Optimization System monitors and tracks welding performance to optimize weld cell OEE.



HIGH PERFORMANCE ANTI-SPATTERS

Blue Magic® and Blue Chill® anti-spatters offer a cost effective, environmentally safe solution with superb performance even in high temperature applications. Formulated for heavy duty industrial welding applications, manufacturers around the globe trust Wire Wizard® anti-spatters to protect against spatter build-up and eliminate downtime. The biodegradable formula contains no harmful chemicals, is water soluble and contains no silicone that negatively affects paint. Drum manifold kits can dispense bulk anti-spatter (available in 5 & 55 gal. drums) to Torch Wizard® Cleaning Stations, eliminating the need to refill reservoirs.

VISIT WIRE-WIZARD.COM TO SEE OUR COMPLETE LINE OF INNOVATIVE WELDING PRODUCTS

SOLVING WELDING CHALLENGES & MANUFACTURING INNOVATIVE WELDING PRODUCTS SINCE 1985

Wire Wizard® Welding Products is recognized as the industry leader in weld wire delivery products, high performance torch products, weld cell support equipment and weld cell optimization. Since we began in 1985, we've prided ourselves on both quality and innovation. Our product lines include Wire Wizard® Wire Delivery Equipment, Blue Magic® Anti-splatter, PowerBall® Torch Products, Torch Wizard® Nozzle Cleaning Stations and WizardGear® Robot Cable Management Systems. Wire Wizard® has solutions for virtually every arc welding application, including robotic, fixed automation, semi-automatic and submerged arc welding.



ELCo Enterprises headquarters in Jackson, Michigan

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HIGH PERFORMANCE MIG WELDING GUNS

Utilizing our patented and proven consumable design, PowerBall® High Performance MIG Guns are engineered to provide maximum conductivity with increased consumable life. The revolutionary new gun design provides a higher amperage output than traditional air-cooled MIG welding guns, resulting in a lighter weight, energy efficient torch that can take on the toughest welding applications while reducing operating costs. Higher conductivity and energy efficiency also means less heat build-up in the gun, keeping your hands cool and reducing spatter build-up on the contact tip and nozzle.

The PowerBall® welding gun sets a new standard for GMAW performance!



- ▶ Long-life contact tips, torch liners & 2-piece nozzles reduce consumable costs
- ▶ Built tough to handle heavy duty industrial welding applications with long duty cycles
- ▶ Optimized tip geometry & reduced heat prevents spatter build-up and burn backs
- ▶ Ergonomic, durable handle and adjustable trigger with comfort grip
- ▶ Unrivaled current transfer! 300 A MIG guns excel at 300-400 A; 400 A guns at 400-500 A
- ▶ 100% duty cycle (with mixed gas) provides performance that rivals costly liquid-cooled MIG guns!
- ▶ Proudly Made in USA 

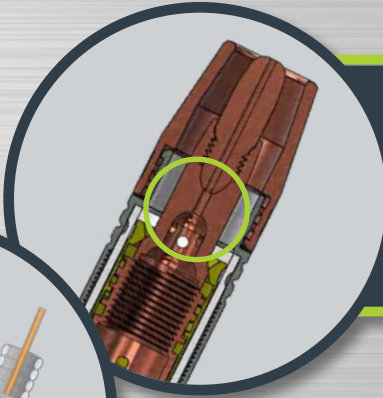
POWERBALL® CABLE

Energy efficient PowerBall® cable features consolidated copper connection points for reduced electrical resistance and consistent performance throughout service life.

▲ **POWERBALL® CRIMPED CABLE** ▼

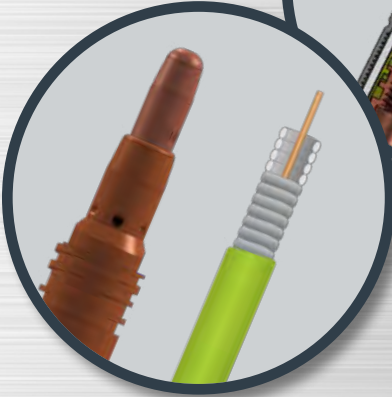
SEE PAGE 12 FOR POWERBALL® WELDING CABLES





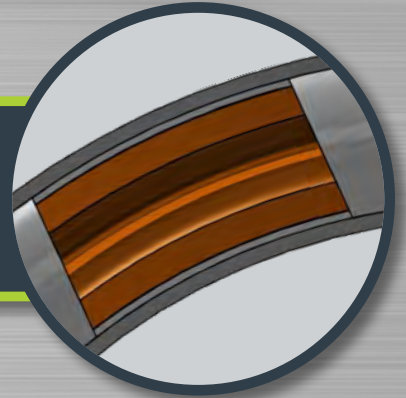
PROVEN CONSUMABLES

PowerBall® all-copper tip & diffuser design with elliptical connection for maximum conductivity. Buttress threads provide high axial force. Innovative two-piece nozzle assembly reduces consumable replacement costs.



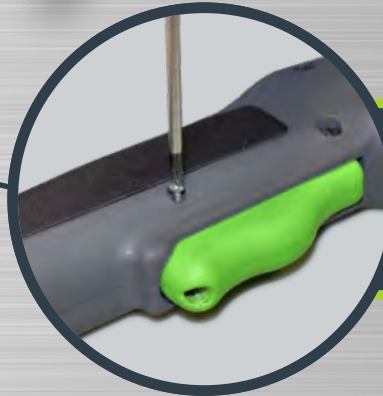
ALL-COPPER CURRENT PATH

All-copper current path from power source to tip provides maximum conductivity with superior cooling.



FULLY REPAIRABLE

Fully repairable for increased service life and reduced long term ownership costs (part # WTP-TRK field repair kit available).



ERGONOMIC DESIGN WITH ADJUSTABLE TRIGGER

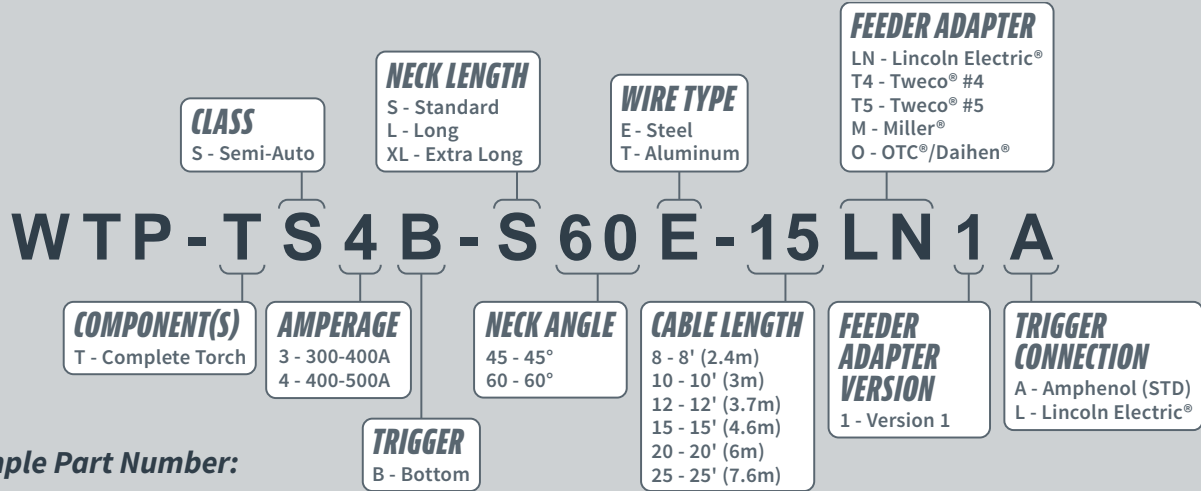
Durable handle with comfort grip and adjustable trigger pull.



AIR COOLED MIG GUN WITH
**100%
DUTY CYCLE!**

(as tested with 400A gun
with 75/25 mixed gas at 400A)

MIG GUN PART NUMBERING SYSTEM & AVAILABLE OPTIONS



Example Part Number:

WTP-TS3B-S45E-15T41A

Complete 300-400 A Semi-automatic MIG Gun Assembly, 45° standard neck length, for mild steel wire with 15' cable and Tweco® #4 feeder adapter & standard amphenol trigger connection.

FEEDER ADAPTER OPTIONS



STANDARD MIG GUN PACKAGE / FERROUS WIRE

All New MIG Guns for steel/ferrous wire ship with:

- ▶ WTP-ELN-2-62T-THRC & WTP-ELN-4-C
5/8" recessed heavy duty two-piece copper nozzle & insulator
- ▶ WTP-045-PB-2 0.045" (1.2mm) contact tip (9mm O.D.)
- ▶ E-Power® Torch Liner for 0.045-1/16" (1.2-1.6mm) steel wire

STANDARD MIG GUN PACKAGE / NON-FERROUS WIRE

All New MIG Guns for aluminum/non-ferrous wire ship with:

- ▶ WTP-ELN-2-62T-THRC & WTP-ELN-4-C
5/8" recessed heavy duty two-piece copper nozzle & insulator
- ▶ WTP-3/64A-PB-2 3/64" (1.2mm) contact tip (9mm O.D.)
- ▶ E-Power® Polymer Torch Liner for 0.045-1/16" (1.2-1.6mm) aluminum/non-ferrous wire

POWERBALL® SEMI-AUTOMATIC TORCH NECK OPTIONS

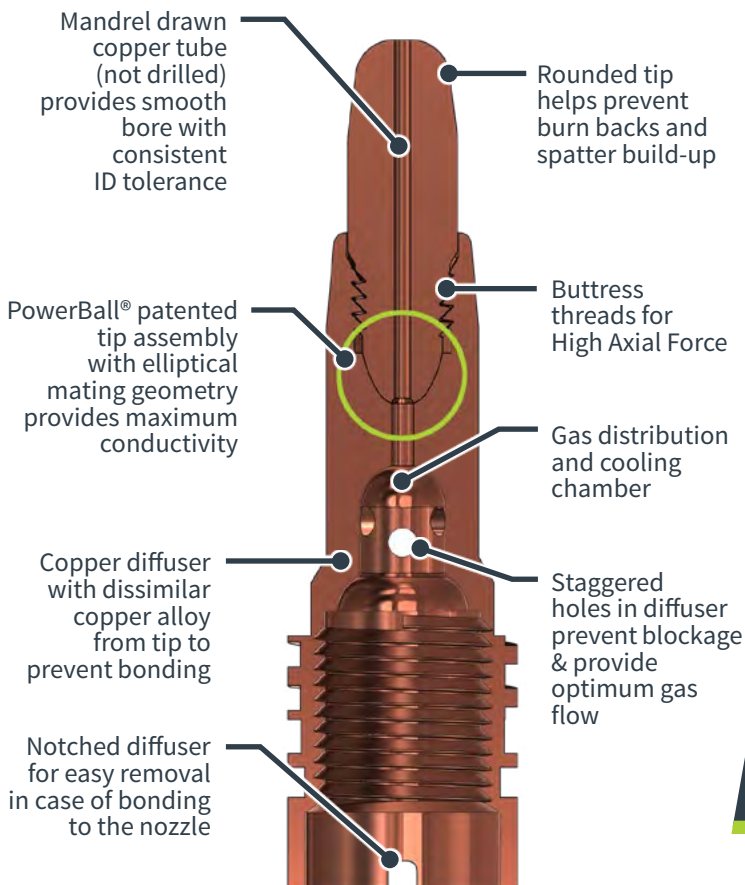
Neck Detail	Part #	Neck Length	Bend Angle	Qty/Pk
	WTP-NS-S45	Standard	45°	1
	WTP-NS-S60	Standard	60°	1

Neck Detail	Part #	Neck Length	Bend Angle	Qty/Pk
	WTP-NS-L45	Long	45°	1
	WTP-NS-L60	Long	60°	1

POWERBALL® CONTACT TIPS & DIFFUSERS

PowerBall® Contact Tips & Diffusers feature an innovative design with the tip seating firmly into a smooth elliptical mating geometry within the diffuser. A copper alloy diffuser ensures an **all-copper current path for optimum conductivity and cooling**. This offers an improvement over traditional MIG gun designs since they often feature mismatched geometry and use brass components with poor conductivity. Welders can feel, hear and see the difference with PowerBall® torch consumables!

- ▶ Better conductivity creates a longer lasting, high performance tip that eliminates arc failures
- ▶ Gas distribution & cooling chamber in the diffuser provides optimum cooling and prevents gas flow turbulence
- ▶ Buttress threads provide high torque, more contact surface and better thread durability
- ▶ Optimized geometry helps prevent spatter build-up and burn backs
- ▶ Diffusers feature notch at back end for easy removal in case of bonding to the nozzle



Tip comparison after one full shift of heavy welding



PREVIOUS TIP POWERBALL®

Wire Wizard
has exceeded my expectations. If I were to design a contact tip, this is how I would do it.

— Rod Weber
Welding Engineer, Douglas Autotech

CONTACT TIPS

7MM POWERBALL® TIPS

Tip Detail	Part #	Wire Size	Wire Type	I.D. Style	Qty/Pack
	WTP-035-PB-2-7MM	.035 (0.9mm)	Steel	Standard	10
	WTP-035-PB-2-7MM-BULK	.035 (0.9mm)	Steel	Standard	500
	WTP-035T-PB-2-7MM	.035 (0.9mm)	Steel	Tight	10
	WTP-035T-PB-2-7MM-BULK	.035 (0.9mm)	Steel	Tight	500
	WTP-040-PB-2-7MM	.040 (1.0mm)	Steel	Standard	10
	WTP-040-PB-2-7MM-BULK	.040 (1.0mm)	Steel	Standard	500
	WTP-040T-PB-2-7MM	.040 (1.0mm)	Steel	Tight	10
	WTP-040T-PB-2-7MM-BULK	.040 (1.0mm)	Steel	Tight	500
	WTP-045-PB-2-7MM	.045 (1.2mm)	Steel	Standard	10
	WTP-045-PB-2-7MM-BULK	.045 (1.2mm)	Steel	Standard	500
	WTP-045T-PB-2-7MM	.045 (1.2mm)	Steel	Tight	10
	WTP-045T-PB-2-7MM-BULK	.045 (1.2mm)	Steel	Tight	500
	WTP-052-PB-2-7MM	.052 (1.3mm)	Steel	Standard	10
	WTP-052-PB-2-7MM-BULK	.052 (1.3mm)	Steel	Standard	500
	WTP-062-PB-2-7MM	.062 (1.6mm)	Steel	Standard	10
	WTP-062-PB-2-7MM-BULK	.062 (1.6mm)	Steel	Standard	500
	WTP-3/64A-PB-2-7MM	3/64 (1.2mm)	Aluminum	Standard	10
	WTP-3/64A-PB-2-7MM-BULK	3/64 (1.2mm)	Aluminum	Standard	500

9MM POWERBALL® TIPS

Tip Detail	Part #	Wire Size	Wire Type	I.D. Style	Qty/Pack
	WTP-035-PB-2	.035 (0.9mm)	Steel	Standard	10
	WTP-035-PB-2-BULK	.035 (0.9mm)	Steel	Standard	500
	WTP-035T-PB-2	.035 (0.9mm)	Steel	Tight	10
	WTP-035T-PB-2-BULK	.035 (0.9mm)	Steel	Tight	500
	WTP-040-PB-2	.040 (1.0mm)	Steel	Standard	10
	WTP-040-PB-2-BULK	.040 (1.0mm)	Steel	Standard	500
	WTP-040T-PB-2	.040 (1.0mm)	Steel	Tight	10
	WTP-040T-PB-2-BULK	.040 (1.0mm)	Steel	Tight	500
	WTP-045-PB-2	.045 (1.2mm)	Steel	Standard	10
	WTP-045-PB-2-BULK	.045 (1.2mm)	Steel	Standard	500
	WTP-045T-PB-2	.045 (1.2mm)	Steel	Tight	10
	WTP-045T-PB-2-BULK	.045 (1.2mm)	Steel	Tight	500
	WTP-052-PB-2	.052 (1.3mm)	Steel	Standard	10
	WTP-052-PB-2-BULK	.052 (1.3mm)	Steel	Standard	500
	WTP-062-PB-2	.062 (1.6mm)	Steel	Standard	10
	WTP-062-PB-2-BULK	.062 (1.6mm)	Steel	Standard	500
	WTP-3/64A-PB-2	3/64 (1.2mm)	Aluminum	Standard	10
	WTP-3/64A-PB-2-BULK	3/64 (1.2mm)	Aluminum	Standard	500

POWERBALL® TEACH TIPS Sold Individually

Tip Detail	Part #	Stick-out	Tip Detail	Part #	Stick-out	Tip Detail	Part #	Stick-out
	WTP-PB-2-TT-14MM	14mm		WTP-PB-2-TT-16MM	16mm		WTP-PB-2-TT-19MM	19mm

DIFFUSERS

POWERBALL® TORCH DIFFUSERS

Diffuser Detail	Part #	Neck Style	Tip Outer Diameter	Compatible Insulators	Nozzle Style	Qty/Pack
	WTP-ELD-PB-1B-C-7MM	PowerBall®	7mm	WTP-ELN-4 or WTP-ELN-5 style	PowerBall® Thread-on	5
	WTP-ELD-PB-2C-C-7MM	PowerBall®	7mm	For slip-on nozzles only (see page 17)	PowerBall® Slip-on	5
	WTP-ELD-PB-1B-C	PowerBall®	9mm	WTP-ELN-4 or WTP-ELN-5 style	PowerBall® Thread-on	5
	WTP-ELD-PB-2C-C	PowerBall®	9mm	For slip-on nozzles only (see page 17)	PowerBall® Slip-on	5



EXTEND CONSUMABLE LIFE WITH TORCH WIZARD® NOZZLE CLEANING STATIONS!

- ▶ **Simultaneous reaming & spraying** (on select models) reduces cycle time by 50%!
- ▶ **Self-cleaning** model with air blast for automated cleaning of spatter and debris from the reamer motor, reducing downtime for maintenance
- ▶ **High torque motor** prevents stalls, reducing downtime
- ▶ **No expensive circuit boards or belts** — less moving parts for reliable, low-cost operation
- ▶ **Industry best two year warranty** when used with Blue Magic® or Blue Chill® high performance anti-spatter
- ▶ **TiN coated reamer blades** offer efficiency and longevity

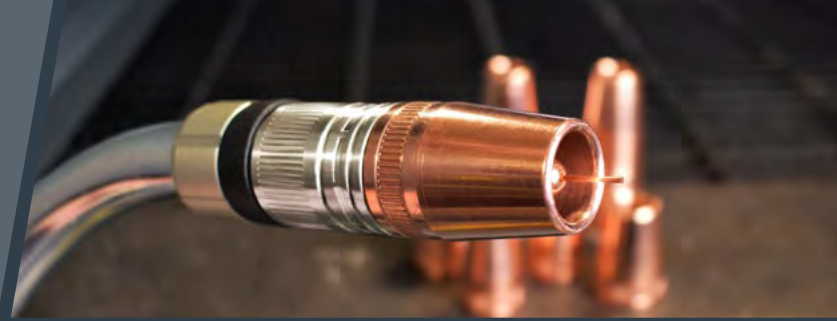
TORCH WIZARD®
HIGH PERFORMANCE NOZZLE CLEANING STATIONS



Blue Magic® Anti-Spatter formulated for heavy duty industrial applications



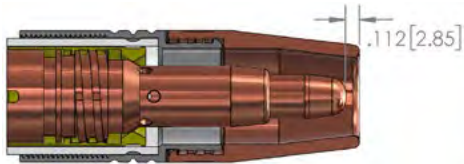
POWERBALL® NOZZLES & INSULATORS



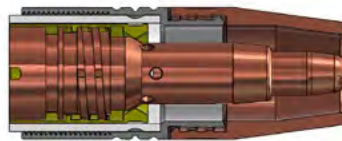
PowerBall® Two-Piece Torch Nozzles reduce nozzle replacement costs by only requiring replacement of the front end of the torch nozzle. The durable insulators are built tough to withstand industrial welding applications and will last through dozens of nozzle change-outs. Full size nozzles are also available in thread-on or slip-on styles, for both PowerBall® MIG Guns or as direct replacements for other MIG Guns.

NOZZLE TO TIP RELATIONSHIP

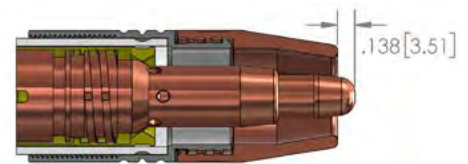
RECESSED TIP (THRC SUFFIX)



FLUSH TIP (THFC SUFFIX)



STICK-OUT TIP (THSC SUFFIX)




POWERBALL® 2-PIECE THREAD-ON NOZZLES *PowerBall® Insulator Required*

Nozzle Detail	Part #	Bore Diameter	Material	Geometry	Workload	Tip Relationship	Tip Compatibility	Qty/Pack
	WTP-ELN-2-50B-THRC	1/2" (12.7mm)	Copper	Bottle Nose	Heavy Duty	Recessed	7mm or 9mm*	10
	WTP-ELN-2-50B-THFC	1/2" (12.7mm)	Copper	Bottle Nose	Heavy Duty	Flush	7mm or 9mm*	10
	WTP-ELN-2-50B-THSC	1/2" (12.7mm)	Copper	Bottle Nose	Heavy Duty	Stick-out	7mm or 9mm*	10
	WTP-ELN-2-15T-THRC	15mm (0.6in)	Copper	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-ELN-2-15T-THSC	15mm (0.6in)	Copper	Tapered	Heavy Duty	Stick-out	7mm or 9mm	10
	WTP-ELN-2-62B-THRC	5/8" (15.9mm)	Copper	Bottle Nose	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-ELN-2-62B-THFC	5/8" (15.9mm)	Copper	Bottle Nose	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-2-62B-THSC	5/8" (15.9mm)	Copper	Bottle Nose	Heavy Duty	Stick-out	7mm or 9mm	10
	WTP-ELN-2-62T-THRC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-ELN-2-62T-THFC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-2-62T-THSC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Stick-out	7mm or 9mm	10
	WTP-ELN-2-75T-THRC	3/4" (19mm)	Copper	Tapered	Heavy Duty	Stick-out	7mm or 9mm	10

* 7mm contact tips are recommended for use with 1/2" (12.7mm) torch nozzles and smaller

POWERBALL® INSULATORS FOR 2-PIECE NOZZLES Order based on nozzle workload

Nozzle Detail	Part #	Workload	Material	Diffuser Style	Qty/Pack
	WTP-ELN-4	Heavy Duty	Brass	PowerBall® Threaded Diffuser	5
	WTP-ELN-4-C	Heavy Duty	Chromed	PowerBall® Threaded Diffuser	5

POWERBALL® FULL SIZE THREAD-ON NOZZLES For PowerBall® slip-on nozzles, see page 17

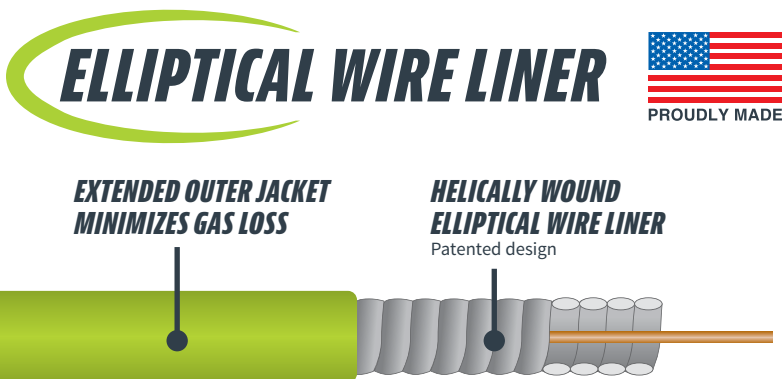
Nozzle Detail	Part #	Bore Diameter	Material	Geometry	Workload	Tip Relat.	Tip Compat.	Qty/Pack
	WTP-ELN-50B-TSRC	1/2" (12.7mm)	Copper	Bottle Nose	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-ELN-50B-TSSC	1/2" (12.7mm)	Copper	Bottle Nose	Standard Duty	Stick-out	7mm or 9mm*	10
	WTP-ELN-50B-TSRB	1/2" (12.7mm)	Brass	Bottle Nose	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-ELN-50B-TSSB	1/2" (12.7mm)	Brass	Bottle Nose	Standard Duty	Stick-out	7mm or 9mm*	10
	WTP-ELN-50T-TSRC	1/2" (12.7mm)	Copper	Tapered	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-ELN-50T-TSRB	1/2" (12.7mm)	Brass	Tapered	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-ELN-62B-THFC	5/8" (15.9mm)	Copper	Bottle Nose	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-62B-THFB	5/8" (15.9mm)	Brass	Bottle Nose	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-62T-TSRC	5/8" (15.9mm)	Copper	Tapered	Standard Duty	Recessed	7mm or 9mm	10
	WTP-ELN-62T-TSSC	5/8" (15.9mm)	Copper	Tapered	Standard Duty	Stick-out	7mm or 9mm	10
	WTP-ELN-62T-THRC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-ELN-62T-THFC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-62T-THSC	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Stick-out	7mm or 9mm	10
	WTP-ELN-62T-TSRB	5/8" (15.9mm)	Brass	Tapered	Standard Duty	Recessed	7mm or 9mm	10
	WTP-ELN-62T-THRB	5/8" (15.9mm)	Brass	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-ELN-62T-THFB	5/8" (15.9mm)	Brass	Tapered	Heavy Duty	Flush	7mm or 9mm	10
	WTP-ELN-75T-THRC	3/4" (19mm)	Copper	Tapered	Heavy Duty	Recessed	7mm or 9mm	10

* 7mm contact tips are recommended for use with 1/2" (12.7mm) torch nozzles and smaller

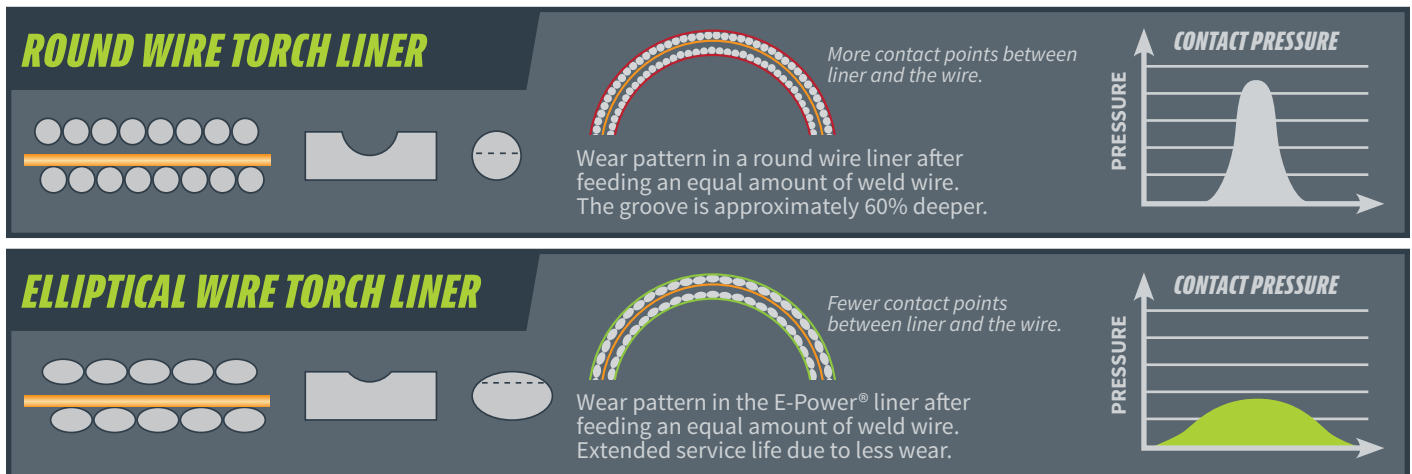
TORCH LINERS FOR POWERBALL® MIG GUNS

E-Power® Torch Liners for PowerBall® MIG Guns are designed to provide **superior feedability with low wire skid friction**. The patented spring liners are made with a helically wound elliptical wire with a proprietary coating that both **reduces friction and eliminates wire shaving**. When compared to torch liners manufactured with round or square wire, they provide a lower friction coefficient, extended life span, improved welding quality and elimination of downtime caused by wire feeding issues.

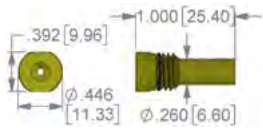
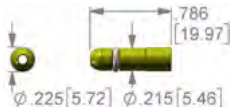
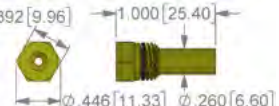
- ▶ Elliptical wire liner with proprietary coating reduces skid friction and eliminates wire shaving
- ▶ **72% LESS wire skid friction** vs. round wire liners (tested with .045 wire @ 175 IPM and 15' liner length)
- ▶ Long life due to less friction and reduced wear
- ▶ Reduces wire vibration that can cause arc failures and poor welding consistency
- ▶ Durable outer jacket extends 12" (305mm) to minimize gas loss at back end of the torch
- ▶ Replacement liners also available for other OEM MIG guns (see page 18)




Test results after each liner was submerged in a saltwater solution for 48 hours.



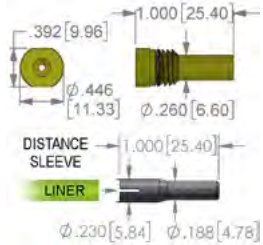
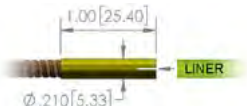
Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style
	WTP-ELL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load
	WTP-ELL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load
	WTP-ELL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load
	WTP-ELL-3545-25	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load
	WTP-ELL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load
	WTP-ELL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load
	WTP-ELL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load
	WTP-ELL-45116-25	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load
	WTP-ELL-564-6	5/64 (2mm)	6 FT (1.8m)	Rear Load
	WTP-ELL-564-10	5/64 (2mm)	10 FT (3m)	Rear Load
	WTP-ELL-564-15	5/64 (2mm)	15 FT (4.6m)	Rear Load
	WTP-ELL-564-25	5/64 (2mm)	25 FT (7.6m)	Rear Load
	WTP-ELL-332-6	3/32 (2.4mm)	6 FT (1.8m)	Rear Load
	WTP-ELL-332-10	3/32 (2.4mm)	10 FT (3m)	Rear Load
	WTP-ELL-332-15	3/32 (2.4mm)	15 FT (4.6m)	Rear Load
WTP-ELL-332-25	3/32 (2.4mm)	25 FT (7.6m)	Rear Load	
	WTP-ELL-FL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Front Load <i>Requires TLC-EL-FL</i>
	WTP-ELL-FL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Front Load <i>Requires TLC-EL-FL</i>
	TLC-EL-FL	.035-1/16 (0.9-1.6mm)	Sold Individually	Replacement Adapter for Front Load Liners

Bulk Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style
	WTP-3545-100B	.035-.045 (0.9-1.2mm)	100 FT (30.5m)	—
	WTP-45116-100B	.045-1/16 (1.2-1.6mm)	100 FT (30.5m)	—
	WTP-564-100B	5/64 (2mm)	100 FT (30.5m)	—

Polymer Liners for Aluminum/Non-Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style
	WTP-ELL-45116A-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load, with Distance Sleeve Adapter
		WTP-ELJL-45116A	.045-1/16 (1.2-1.6mm)	8.5 IN (216mm)

POWERBALL® WELDING CABLE

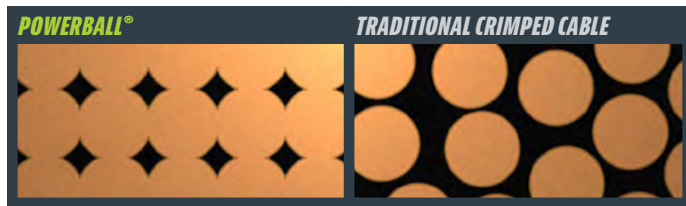
PowerBall® Welding Cables feature an energy efficient design with enhanced conductivity. Cable lug connections commonly used in MIG welding are often overlooked, but can offer significant improvements in both weld quality and electrical efficiency when the connections are optimized. All copper connection points with consolidated copper lug joints used in PowerBall® Cables provide superior conductivity, with over **3X less electrical resistance** at the cable joints. Stronger and more conductive cable joints provide **improved electrical stability, reduced heat build-up and increased service life**. Patent pending design.

- ▶ Consolidated copper connection at the cable lug joints increases energy efficiency
- ▶ Reduces the electrical resistance from 20-50+ micro-ohms (in traditional crimped cables), to only 7-10 micro-ohms
- ▶ Stronger joints result in consistent performance throughout cable service life, as well as enhanced durability
- ▶ Tough outer jacket with sealed strain relief resists spatter and abrasion and protects cables from industrial environments
- ▶ Available in 2/0, 3/0 or 4/0 in pre-cut lengths
- ▶ Rated for 600V (-50°C+105°C), SAE J1127 and RoHS compliant

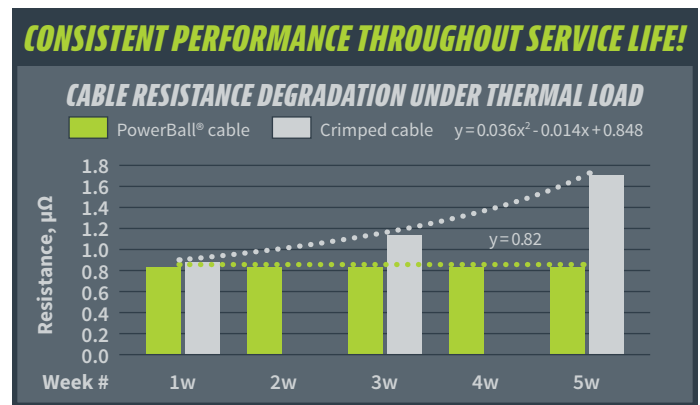
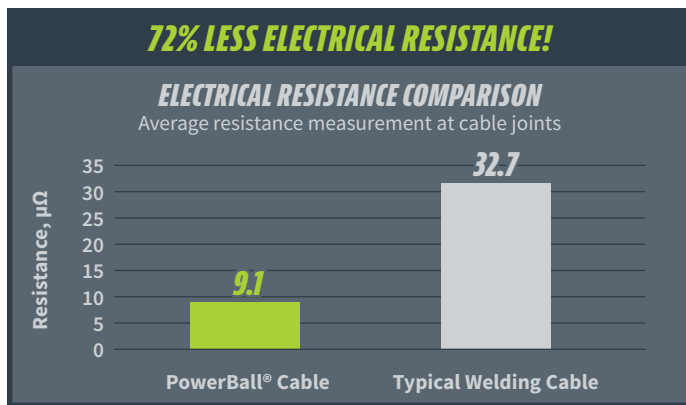
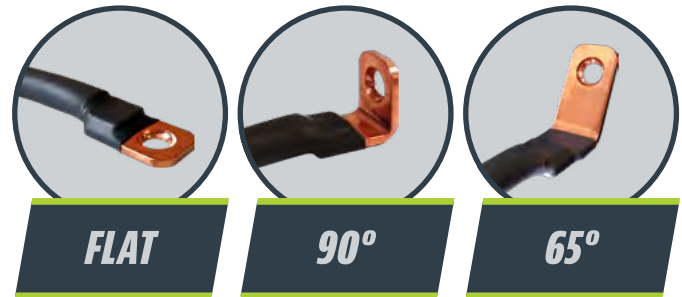


POWERBALL® vs. TRADITIONAL CRIMPED CABLE

Energy efficient PowerBall® cables feature consolidated copper connections at the lugs with fused copper strands for improved current flow & increased service life.








THREE COPPER LUG OPTIONS AVAILABLE





POWERBALL® PRE-CUT WELDING CABLE WITH CONSOLIDATED COPPER LUGS

Lug Detail	Part #	Gauge	Length	Outer Diameter	Lug #1	Lug #2
	PBC-2/0-3-L1	2/0	3' (1m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-5-L1	2/0	5' (1.5m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-10-L1	2/0	10' (3m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-15-L1	2/0	15' (4.6m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-20-L1	2/0	20' (6m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-25-L1	2/0	25' (7.6m)	0.62" (15.8mm)	Straight	Straight
	PBC-2/0-3-L2	2/0	3' (1m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-5-L2	2/0	5' (1.5m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-10-L2	2/0	10' (3m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-15-L2	2/0	15' (4.6m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-20-L2	2/0	20' (6m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-25-L2	2/0	25' (7.6m)	0.62" (15.8mm)	Straight	90°
	PBC-2/0-3-L3	2/0	3' (1m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-5-L3	2/0	5' (1.5m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-10-L3	2/0	10' (3m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-15-L3	2/0	15' (4.6m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-20-L3	2/0	20' (6m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-25-L3	2/0	25' (7.6m)	0.62" (15.8mm)	90°	90°
	PBC-2/0-3-L4	2/0	3' (1m)	0.62" (15.8mm)	Straight	65°
	PBC-2/0-5-L4	2/0	5' (1.5m)	0.62" (15.8mm)	Straight	65°
	PBC-2/0-10-L4	2/0	10' (3m)	0.62" (15.8mm)	Straight	65°
	PBC-2/0-15-L4	2/0	15' (4.6m)	0.62" (15.8mm)	Straight	65°
	PBC-2/0-20-L4	2/0	20' (6m)	0.62" (15.8mm)	Straight	65°
	PBC-2/0-25-L4	2/0	25' (7.6m)	0.62" (15.8mm)	Straight	65°
	PBC-3/0-3-L1	3/0	3' (1m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-5-L1	3/0	5' (1.5m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-10-L1	3/0	10' (3m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-15-L1	3/0	15' (4.6m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-20-L1	3/0	20' (6m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-25-L1	3/0	25' (7.6m)	0.68" (17.1mm)	Straight	Straight
	PBC-3/0-3-L2	3/0	3' (1m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-5-L2	3/0	5' (1.5m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-10-L2	3/0	10' (3m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-15-L2	3/0	15' (4.6m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-20-L2	3/0	20' (6m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-25-L2	3/0	25' (7.6m)	0.68" (17.1mm)	Straight	90°
	PBC-3/0-3-L3	3/0	3' (1m)	0.68" (17.1mm)	90°	90°
	PBC-3/0-5-L3	3/0	5' (1.5m)	0.68" (17.1mm)	90°	90°
	PBC-3/0-10-L3	3/0	10' (3m)	0.68" (17.1mm)	90°	90°
	PBC-3/0-15-L3	3/0	15' (4.6m)	0.68" (17.1mm)	90°	90°
	PBC-3/0-20-L3	3/0	20' (6m)	0.68" (17.1mm)	90°	90°
	PBC-3/0-25-L3	3/0	25' (7.6m)	0.68" (17.1mm)	90°	90°
PBC-3/0-50-L3	3/0	50' (15.2m)	0.68" (17.1mm)	90°	90°	

POWERBALL® WELDING CABLE (CONTINUED)

Lug Detail	Part #	Gauge	Length	Outer Diameter	Lug #1	Lug #2
	PBC-3/0-3-L4	3/0	3' (1m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-5-L4	3/0	5' (1.5m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-10-L4	3/0	10' (3m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-15-L4	3/0	15' (4.6m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-20-L4	3/0	20' (6m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-25-L4	3/0	25' (7.6m)	0.68" (17.1mm)	Straight	65°
	PBC-3/0-50-L4	3/0	50' (15.2m)	0.68" (17.1mm)	Straight	65°
	PBC-4/0-3-L1	4/0	3' (1m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-5-L1	4/0	5' (1.5m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-10-L1	4/0	10' (3m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-15-L1	4/0	15' (4.6m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-20-L1	4/0	20' (6m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-25-L1	4/0	25' (7.6m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-50-L1	4/0	50' (15.2m)	0.75" (19mm)	Straight	Straight
	PBC-4/0-3-L2	4/0	3' (1m)	0.75" (19mm)	Straight	90°
	PBC-4/0-5-L2	4/0	5' (1.5m)	0.75" (19mm)	Straight	90°
	PBC-4/0-10-L2	4/0	10' (3m)	0.75" (19mm)	Straight	90°
	PBC-4/0-15-L2	4/0	15' (4.6m)	0.75" (19mm)	Straight	90°
	PBC-4/0-20-L2	4/0	20' (6m)	0.75" (19mm)	Straight	90°
	PBC-4/0-25-L2	4/0	25' (7.6m)	0.75" (19mm)	Straight	90°
	PBC-4/0-50-L2	4/0	50' (15.2m)	0.75" (19mm)	Straight	90°
	PBC-4/0-3-L3	4/0	3' (1m)	0.75" (19mm)	90°	90°
	PBC-4/0-5-L3	4/0	5' (1.5m)	0.75" (19mm)	90°	90°
	PBC-4/0-10-L3	4/0	10' (3m)	0.75" (19mm)	90°	90°
	PBC-4/0-15-L3	4/0	15' (4.6m)	0.75" (19mm)	90°	90°
	PBC-4/0-20-L3	4/0	20' (6m)	0.75" (19mm)	90°	90°
	PBC-4/0-25-L3	4/0	25' (7.6m)	0.75" (19mm)	90°	90°
	PBC-4/0-50-L3	4/0	50' (15.2m)	0.75" (19mm)	90°	90°
	PBC-4/0-3-L4	4/0	3' (1m)	0.75" (19mm)	Straight	65°
	PBC-4/0-5-L4	4/0	5' (1.5m)	0.75" (19mm)	Straight	65°
	PBC-4/0-10-L4	4/0	10' (3m)	0.75" (19mm)	Straight	65°
	PBC-4/0-15-L4	4/0	15' (4.6m)	0.75" (19mm)	Straight	65°
	PBC-4/0-20-L4	4/0	20' (6m)	0.75" (19mm)	Straight	65°
	PBC-4/0-25-L4	4/0	25' (7.6m)	0.75" (19mm)	Straight	65°
	PBC-4/0-50-L4	4/0	50' (15.2m)	0.75" (19mm)	Straight	65°

COPPER WASHERS & NUTS FOR POWERBALL® CABLES

Part Detail	Part #	Description	Threads	Qty/Pack
	PBC-W-1	PowerBall® Copper Washer (2 washers included with each cable)	—	10
	PBC-N-1	PowerBall® Copper Nut	1/2 - 13	1
	PBC-N-5	PowerBall® Copper Nut	M12 x 1.75	1

***POWERBALL® DIRECT
REPLACEMENT SOLUTIONS***



REPLACEMENT SOLUTIONS

DIFFUSERS & INSULATORS

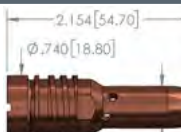


Replacement diffusers and insulators allow the use of high performance PowerBall® Torch Consumables with other select MIG gun brands. Utilize the patented PowerBall® design to improve conductivity and welding performance on your existing torch. Boost the power of your torch with PowerBall® Consumables!

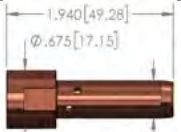
TREGASKISS®/SKS® TORCH NECK DIFFUSERS

Diffuser Detail	Part #	Neck Style	Tip Outer Diameter	Compatible Insulators	Nozzle Style	Qty/Pack
	WTP-TRD-E-PB-1C-C-7MM	Tregaskiss®/SKS®	7mm	WTP-ELN-4 or WTP-ELN-5 style	PowerBall® Thread-on	5
	WTP-TRD-PB-2C-C-7MM	Tregaskiss®/SKS®	7mm	For slip-on nozzles only (see page 17)	PowerBall® Slip-on	5
	WTP-TRD-E-PB-1C-C	Tregaskiss®/SKS®	9mm	WTP-ELN-4 or WTP-ELN-5 style	PowerBall® Thread-on	5
	WTP-TRD-PB-2C-C	Tregaskiss®/SKS®	9mm	For slip-on nozzles only (see page 17)	PowerBall® Slip-on	5

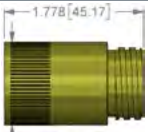
LINCOLN ELECTRIC® TORCH NECK DIFFUSERS

Diffuser Detail	Part #	Neck Style	Tip Outer Diameter	Compatible Insulators	Nozzle Style	Qty/Pack
	WTP-ELD-PB-10-C	Lincoln Electric®	9mm	WTP-ELN-4 or WTP-ELN-5 style	PowerBall® Thread-on	5

FRONIUS® TORCH NECK DIFFUSERS

Diffuser Detail	Part #	Neck Style	Tip Outer Diameter	Nozzle Style	Qty/Pack
	WTP-FRD-PB-1C-C	Fronius® with WTP-ELN-8 Insulator	9mm	Threaded on Neck	5

FRONIUS® TORCH NECK INSULATORS

Insulator Detail	Part #	Nozzle Style	Material	Diffuser Style	Qty/Pack
	WTP-ELN-8	5/8" or Larger	Brass	5/8" or Larger	5













REPLACEMENT SOLUTIONS

SLIP-ON NOZZLES



PowerBall® Slip-on Torch Nozzles are designed to fit both PowerBall® MIG Welding Guns and also fit as direct replacements for Tregaskiss® MIG Guns. Slip-on nozzles provide a secure fit over the diffuser and reduce time for nozzle change-out.

SLIP-ON NOZZLES FOR POWERBALL® OR TREGASKISS® MIG GUNS

Nozzle Detail	Part #	Bore Diameter	Material	Geometry	Workload	Tip Relat.	Tip Compat.	Qty/Pack
	WTP-TRN-401-40-38	3/8" (9.5mm)	Brass	Bottle Nose	Standard Duty	1/16" Recessed	7mm	10
	WTP-TRN-401-4-38	3/8" (9.5mm)	Copper	Tapered	Standard Duty	Flush	7mm	10
	WTP-TRN-401-48-50	1/2" (12.7mm)	Brass	Bottle Nose	Standard Duty	Stick-out	7mm or 9mm*	10
	WTP-TRN-401-42-50	1/2" (12.7mm)	Copper	Bottle Nose	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-TRN-401-4-50	1/2" (12.7mm)	Copper	Tapered	Standard Duty	Recessed	7mm or 9mm*	10
	WTP-TRN-401-48-62	5/8" (15.9mm)	Copper	Bottle Nose	Standard Duty	Flush	7mm or 9mm	10
	WTP-TRN-401-49-62	5/8" (15.9mm)	Copper	Bottle Nose	Standard Duty	Stick-out	7mm or 9mm	10
	WTP-TRN-401-4-62	5/8" (15.9mm)	Copper	Tapered	Standard Duty	Recessed	7mm or 9mm	10
	WTP-TRN-401-8-62	5/8" (15.9mm)	Copper	Tapered	Standard Duty	Stick-out	7mm or 9mm	10
	WTP-TRN-401-71-62	5/8" (15.9mm)	Brass	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-TRN-401-6-62	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Recessed	7mm or 9mm	10
	WTP-TRN-401-81-62	5/8" (15.9mm)	Copper	Tapered	Heavy Duty	Stick-out	7mm or 9mm	10

* 7mm contact tips are recommended for use with 1/2" (12.7mm) torch nozzles and smaller

REPLACEMENT SOLUTIONS

E-POWER® TORCH LINERS



E-Power® Torch Liners provide a simple and cost-effective way of boosting the performance of existing robotic and semi-automatic MIG Guns. By reducing wire skid friction, wire vibration and wire shaving, they can provide instant results with **improved welding quality, consistency and smoother wire delivery.**

AMERICAN WELDQUIP® REPLACEMENT LINERS

Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-AWL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	75006222T
	WTP-AWL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	75010222T
	WTP-AWL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	75015222T
	WTP-AWL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load	75006228T
	WTP-AWL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	75010228T
	WTP-AWL-45116-25	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	75015228T

BINZEL® REPLACEMENT LINERS

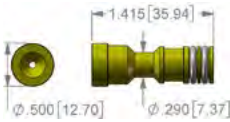
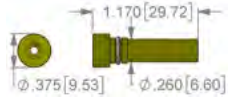
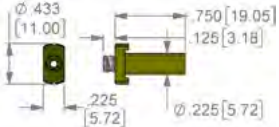

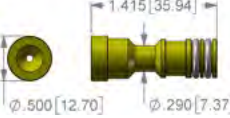
Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-BZL-3545-1.3	.035-.045 (0.9-1.2mm)	15 IN (381mm)	Rear Load	
	WTP-BZL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load (no jacket)	
	WTP-BZL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	
	WTP-BZL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	
	WTP-BZL-3545-25	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load	
	WTP-BZL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load (no jacket)	
	WTP-BZL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load	
	WTP-BZL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	
	WTP-BZL-45116-25	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	
	WTP-BZL-332-6	3/32 (2.4mm)	6 FT (1.8m)	Rear Load	
	WTP-BZL-332-10	3/32 (2.4mm)	10 FT (3m)	Rear Load	
	WTP-BZL-332-15	3/32 (2.4mm)	15 FT (4.6m)	Rear Load	
WTP-BZL-332-25	3/32 (2.4mm)	25 FT (7.6m)	Rear Load		
	WTP-BZL-3545-6-1	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load (6" liner stick-out)	
	WTP-BZL-3545-17-1	.035-.045 (0.9-1.2mm)	17 FT (5.2m)	Rear Load (6" liner stick-out)	
	WTP-BZL-45116-6-1	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load (6" liner stick-out)	
	WTP-BZL-45116-17-1	.045-1/16 (1.2-1.6mm)	17 FT (5.2m)	Rear Load (6" liner stick-out)	
	WTP-BZJL-3545	.035-.045 (0.9-1.2mm)	14.5 IN (368mm)	Jump Liner	
	WTP-BZJL-45116	.045-1/16 (1.2-1.6mm)	14.5 IN (368mm)	Jump Liner	
	WTP-BZJL-45116-3	.045-1/16 (1.2-1.6mm)	11 IN (279mm)	Jump Liner	
	WTP-BZJL-3545-1	.035-.045 (0.9-1.2mm)	10.25 IN (260mm)	Jump Liner	
	WTP-BZJL-45116-1	.045-1/16 (1.2-1.6mm)	10.25 IN (260mm)	Jump Liner	
	WTP-BZJL-45116-2	.045-1/16 (1.2-1.6mm)	7.75 IN (197mm)	Jump Liner (no jacket)	

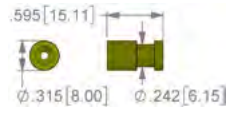
Please inspect & verify your Binzel® collet design prior to ordering

Please inspect & verify all torch liner collet designs prior to ordering.

LINCOLN ELECTRIC® REPLACEMENT LINERS
Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-TWL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	KP45-3545-6
	WTP-TWL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	KP45-3545-15 (15')
	WTP-TWL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	KP45-3545-15
	WTP-TWL-3545-25	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load	KP45-3545-25
	WTP-TWL-45116-4.5	.045-1/16 (1.2-1.6mm)	4.5 FT (1.4m)	Rear Load	N/A
	WTP-TWL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-TWL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load	KP45-116-15 (15')
	WTP-TWL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	KP45-116-15
	WTP-TWL-45116-25	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	KP45-116-25
	WTP-TWL-564-6	5/64 (2mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-TWL-564-10	5/64 (2mm)	10 FT (3m)	Rear Load	KP45H-332-15 (15')
	WTP-TWL-564-15	5/64 (2mm)	15 FT (4.6m)	Rear Load	KP45H-332-15
	WTP-TWL-564-25	5/64 (2mm)	25 FT (7.6m)	Rear Load	KP45H-332-25
	WTP-TWL-332-6	3/32 (2.4mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-TWL-332-10	3/32 (2.4mm)	10 FT (3m)	Rear Load	KP45H-332-15 (15')
WTP-TWL-332-15	3/32 (2.4mm)	15 FT (4.6m)	Rear Load	KP45H-332-15	
WTP-TWL-332-25	3/32 (2.4mm)	25 FT (7.6m)	Rear Load	KP45H-332-25	
	WTP-TWL-3545-6-S4	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-TWL-3545-15-S4	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	KP44-3545-15
	WTP-TWL-3545-25-S4	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load	KP44-3545-25
	WTP-TWL-45116-15-S4	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	KP44-116-15
	WTP-TWL-45116-25-S4	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	KP44-116-25
	WTP-TWL-564-15-S4	5/64 (2mm)	15 FT (4.6m)	Rear Load	KP44-564-15
WTP-TWL-564-25-S4	5/64 (2mm)	25 FT (7.6m)	Rear Load	KP44-564-25	
	WTP-LNJL-3545	.035-.045 (0.9-1.2mm)	13.25 IN (337mm)	Jump Liner (1/4" liner stick-out)	KP3364-1
	WTP-LNJL-45116	.045-1/16 (1.2-1.6mm)	13.25 IN (337mm)	Jump Liner (1/4" liner stick-out)	KP3364-2
	WTP-LNJL-3545-1	.035-.045 (0.9-1.2mm)	13.25 IN (337mm)	Jump Liner	N/A
	WTP-LNJL-45116-1	.045-1/16 (1.2-1.6mm)	13.25 IN (337mm)	Jump Liner	N/A
	WTP-ELL-FL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Front Load Requires TLC-LN-FL	—
	WTP-ELL-FL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Front Load Requires TLC-LN-FL	—
	TLC-LN-FL	.035-1/16 (0.9-1.6mm)	Sold Individually	Adapter for Lincoln Electric® Front Load Liners	KP45 Style Collet

OTC® REPLACEMENT LINERS
Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-OTL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-OTL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	U4170H02
	WTP-OTL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	U4535G01
	WTP-OTL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-OTL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load	U4173G04
	WTP-OTL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	U4537G01 U4573G01 (OTC .052)

Please inspect & verify all torch liner collet designs prior to ordering.

PANASONIC® REPLACEMENT LINERS
Liners for Ferrous Wire

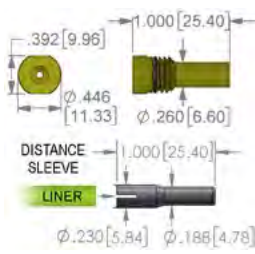
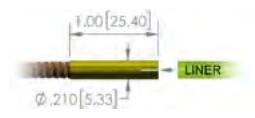
Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-PNL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	S091, S121
	WTP-PNL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	TDT-00279 (S091) TDT-00262 (S121)
	WTP-PNL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	TDT-00280 (S091) TDT-00265 (S121)
	WTP-PNL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load	S121, S161
	WTP-PNL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load	TDT-00262 (S121) TDT-00263 (S161)
	WTP-PNL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	TDT-00265 (S121) TDT-00267 (S161)
	WTP-PNJL-3545-1	.035-.045 (0.9-1.2mm)	16 IN (406mm)	Jump Liner	N/A
	WTP-PNJL-45116-1	.045-1/16 (1.2-1.6mm)	16 IN (406mm)	Jump Liner	N/A

TREGASKISS®/BERNARD® REPLACEMENT LINERS
Liners for Ferrous Wire

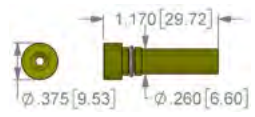
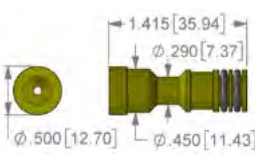
Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-TRBRL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	415-30-6, 415-35-6
	WTP-TRBRL-3545-10	.035-.045 (0.9-1.2mm)	10 FT (3m)	Rear Load	415-35-10
	WTP-TRBRL-3545-15	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	415-30-15, 415-35-15, L3A-15, 44115
	WTP-TRBRL-3545-25	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load	415-30-25, 415-35-25, L3A-25, 44125
	WTP-TRBRL-45116-6	.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Rear Load	415-116-6
	WTP-TRBRL-45116-10	.045-1/16 (1.2-1.6mm)	10 FT (3m)	Rear Load	415-116-10, 44210
	WTP-TRBRL-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	415-116-15, L4A-15, 44215
	WTP-TRBRL-45116-25	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	415-116-25, L4A-25, 44225
	WTP-TRBRL-564-6	5/64 (2mm)	6 FT (1.8m)	Rear Load	415-564-6 (D-Wound)
	WTP-TRBRL-564-10	5/64 (2mm)	10 FT (3m)	Rear Load	415-564-10 (D-Wound)
	WTP-TRBRL-564-15	5/64 (2mm)	15 FT (4.6m)	Rear Load	415-564-15 (D-Wound), L6A-15, 1920356
	WTP-TRBRL-564-25	5/64 (2mm)	25 FT (7.6m)	Rear Load	415-564-25 (D-Wound), L6A-25, 1920357
	WTP-TRBRL-332-6	3/32 (2.4mm)	6 FT (1.8m)	Rear Load	415-332-6 (Flat Wound)
WTP-TRBRL-332-10	3/32 (2.4mm)	10 FT (3m)	Rear Load	415-332-10 (Flat Wound)	
WTP-TRBRL-332-15	3/32 (2.4mm)	15 FT (4.6m)	Rear Load	415-332-15 (Flat Wound), L7A-15, 45415	
WTP-TRBRL-332-25	3/32 (2.4mm)	25 FT (7.6m)	Rear Load	415-332-25 (Flat Wound), L7A-25, 45425	
	WTP-TRBRL-45116-15A	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load, with Length Adjuster	L4A-15
		WTP-ELL-FL-3545-6	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Front Load Requires TLC-TRBRL-FL
WTP-ELL-FL-45116-6		.045-1/16 (1.2-1.6mm)	6 FT (1.8m)	Front Load Requires TLC-TRBRL-FL	—
	WTP-TRJL-3545	.035-.045 (0.9-1.2mm)	26 IN (660mm)	Jump Liner	495-18-35
	WTP-TRJL-45116	.035-.045 (0.9-1.2mm)	26 IN (660mm)	Jump Liner	495-18-116
	TLC-TRBRL-FL	.035-1/16 (0.9-1.6mm)	Sold Individually	Adapter for Tregaskiss®/Bernard® Front Load Liners	L3A/L4A Style Collet

Please inspect & verify all torch liner collet designs prior to ordering.

TREGASKISS®/BERNARD® REPLACEMENT LINERS
Polymer Liners for Aluminum/Non-Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-TRLP-45116-15	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load, with Distance Sleeve Adapter	415-116-21 or 415-45-01
	WTP-ELJL-45116A	.045-1/16 (1.2-1.6mm)	8.5 IN (216mm)	Phosphorous Bronze Jump Liner For use with WTP-TRLP-45116-15	—

TWECO® REPLACEMENT LINERS
Liners for Ferrous Wire

Liner Collet Detail	Part #	Wire Size Range	Length	Liner Style	OEM Part #'s
	WTP-TWL-3545-6-S4	.035-.045 (0.9-1.2mm)	6 FT (1.8m)	Rear Load	N/A
	WTP-TWL-3545-15-S4	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load	44-3545-15
	WTP-TWL-3545-25-S4	.035-.045 (0.9-1.2mm)	25 FT (7.6m)	Rear Load	44-3545-25
	WTP-TWL-45116-15-S4	.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	44-116-15
	WTP-TWL-45116-25-S4	.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	44-116-25
	WTP-TWL-564-15-S4	5/64 (2mm)	15 FT (4.6m)	Rear Load	44-564-15
	WTP-TWL-564-25-S4	5/64 (2mm)	25 FT (7.6m)	Rear Load	44-564-25
	WTP-TWL-332-15-S4	3/32 (2.4mm)	15 FT (4.6m)	Rear Load	44-332-15
	WTP-TWL-332-25-S4	3/32 (2.4mm)	25 FT (7.6m)	Rear Load	44-332-25
		WTP-TWL-3545-15-S5	.035-.045 (0.9-1.2mm)	15 FT (4.6m)	Rear Load
WTP-TWL-45116-15-S5		.045-1/16 (1.2-1.6mm)	15 FT (4.6m)	Rear Load	45-116-15
WTP-TWL-45116-25-S5		.045-1/16 (1.2-1.6mm)	25 FT (7.6m)	Rear Load	45-116-25
WTP-TWL-564-15-S5		5/64 (2mm)	15 FT (4.6m)	Rear Load	45-564-15
WTP-TWL-564-25-S5		5/64 (2mm)	25 FT (7.6m)	Rear Load	45-564-25
WTP-TWL-332-15-S5		3/32 (2.4mm)	15 FT (4.6m)	Rear Load	45H-332-15
WTP-TWL-332-25-S5		3/32 (2.4mm)	25 FT (7.6m)	Rear Load	45H-332-25

Please inspect & verify all torch liner collet designs prior to ordering.

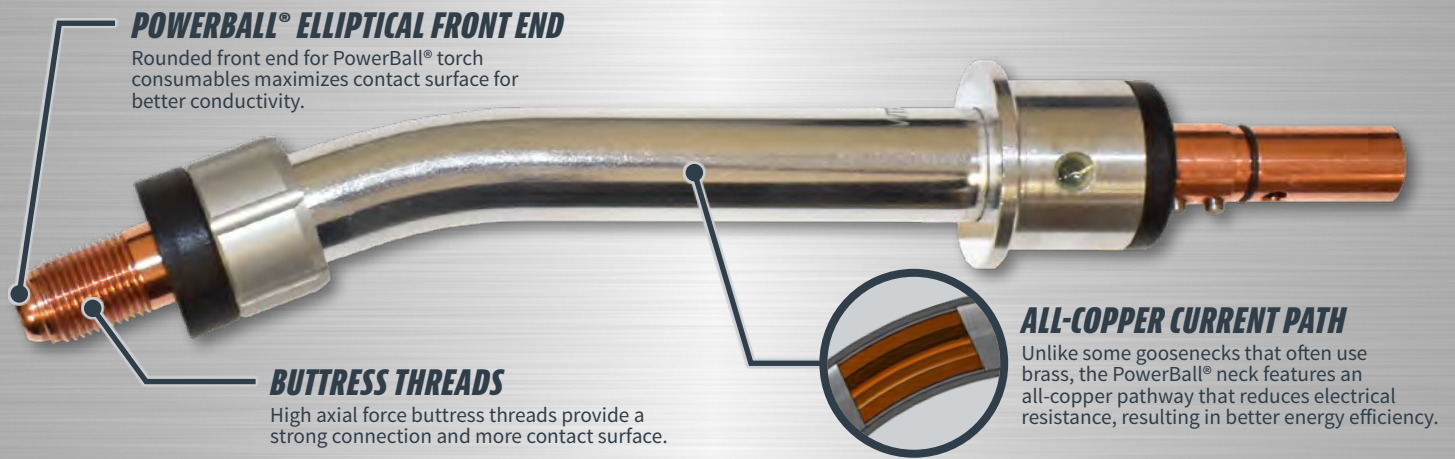
REPLACEMENT SOLUTIONS

ROBOTIC TORCH NECKS



PowerBall® replacement torch necks feature an all-copper pathway for reduced electrical resistance, unlike many torch necks for industrial MIG guns that utilize brass components with less conductivity. An all-copper current path results in better energy efficiency and less heat build-up, with **30% better conductivity vs. torch necks using a brass construction.**

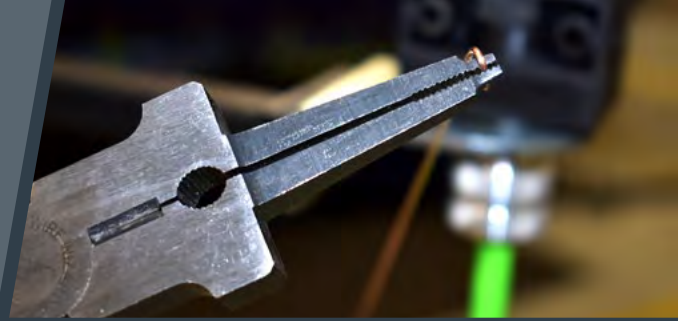
POWERBALL® REPLACEMENT TORCH NECK DESIGN



TREGASKISS® G1 STYLE ROBOTIC TORCH NECKS

Neck Detail	Part #	Neck Length	Bend Angle	Diffuser Thread	Qty/Pack
	WTP-TRNR-22	Standard	22°	PowerBall®	1
	WTP-TRNR-22XL	Extra Long	22°	PowerBall®	1
	WTP-TRNR-45	Standard	45°	PowerBall®	1
	WTP-TRNR-45L	Long	45°	PowerBall®	1

TOOLS & ACCESSORIES



MULTIFUNCTION WIRE & WELDING PLIERS



INCLUDES TOOL BELT POUCH

Wire Wizard® Multifunction Wire & Welding Pliers are heavy duty pliers designed for use with MIG welding guns and the wire delivery system. The pliers feature **rounded tips for sharply bending wire** for easy feeding through Wire Guide Modules and the rest of the wire delivery system. They serve as an indispensable welding tool for servicing and maintaining welding consumables and removing spatter build-up. Manufactured from **heavy duty chrome vanadium**, they are built to last in a tough industrial environment. Package includes convenient belt pouch.



NOZZLE & INSULATOR BUSHING REMOVAL & INSTALLATION



WIRE BENDING FOR EASY FEEDING THROUGH SYSTEM

Part #	Description
EL-WP	Wire Wizard® Multifunction Wire & Welding Pliers

MAGNETIC GROUNDING CLAMP



Wire Wizard® Magnetic Grounding Clamps feature a **copper grounding point for optimum conductivity**. A dial turns the powerful magnet (300 lbs strength) on to create an instant ground to flat or rounded surfaces. Simply turn the dial back to unclamp. Also eliminates the need for tacking on tabs in large sheet welding or pipe jobs. Provides grounding for up to 500 A. Welding cable sold separately.

Dimensions: 4½" L x 3½" H x 2" W (114 x 89 x 51 mm)

Part #	Description
WWGC-M-300	Wire Wizard® Magnetic Grounding Clamp for grounding for up to 500 A

POWERBALL® TIP & DIFFUSER SOCKETS & CALIBRATED WRENCHES



WTP-TS

The 9mm Quick-Grip Tip Socket (1/4") features an innovative design with grippers that easily installs and removes 9mm PowerBall® torch tips. When used with a calibrated torque wrench (part # WTP-TTW) it saves time and allows for an accurate torque setting (40 in/lbs) for consistent contact.

Consistent contact = consistent welds!



WTP-TTW

Part #	Description
WTP-TS	PowerBall® 9mm Tip Socket
WTP-TTW	Calibrated Tip Wrench (40 in/lbs)



WTP-DS

The 15mm Diffuser Socket (3/8") is designed for quickly installing and removing PowerBall® Diffusers with 15mm wrench flats. When used with a calibrated torque wrench (part # WTP-DTW), it saves time and allows for an accurate torque setting (140 in/lbs) for consistent contact.



WTP-DTW

Part #	Description
WTP-DS	PowerBall® 15mm Diffuser Socket
WTP-DTW	Calibrated Diffuser Wrench (140 in/lbs)

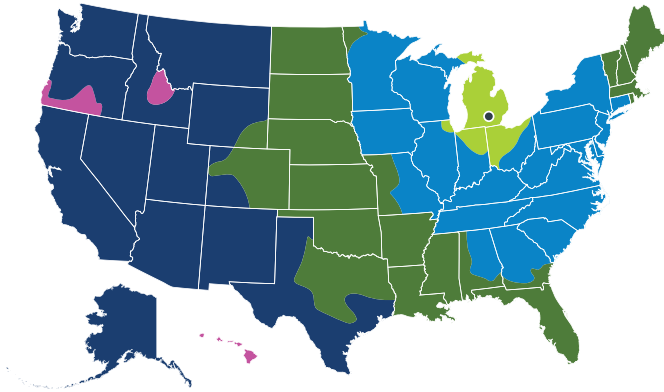
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- ▶ Next Day Air
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- ▶ 3 Day Select
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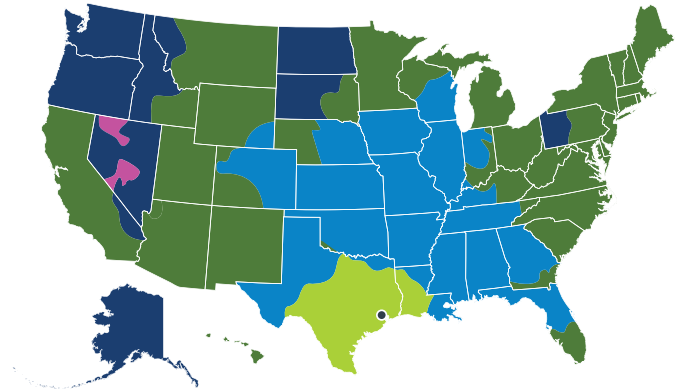
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\$75 minimum order.

NOTE

Purchases cannot be delivered to post office boxes.

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TERMS

All orders placed on account are net 30 days. Unpaid balances are subject to a 1.5% per month late charge. COD orders are accepted if payment is in the form of a company check, certified check, or money order.

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GET WIZARD OPTIMIZED! REDEFINING ARC WELDING PERFORMANCE



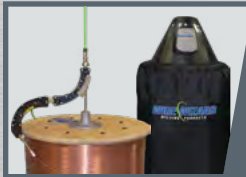
WIRE WIZARD® GUIDE MODULE SYSTEM FOR MIG & SAW

Innovative design eliminates skid friction around bends and turns in the wire delivery system.



POWERBALL® MIG WELDING GUNS & CONSUMABLES

Engineered to provide maximum conductivity & increased consumable life, proudly Made in USA.



DRUM & WOOD REEL WIRE DELIVERY EQUIPMENT

Effortlessly dispenses and protects wire from bulk wire drums or wood reels.



E-POWER® LONG-LASTING ELLIPTICAL WIRE TORCH LINERS

Patented elliptical wire liner for long life & low wire friction, available for most MIG gun models.



TORCH WIZARD® NOZZLE CLEANING STATIONS

Heavy duty, low maintenance cleaning stations designed for optimum performance & cycle time.



BLUE MAGIC® & BLUE CHILL® ANTI-SPATTER

Trusted by top manufacturers around the globe for industrial strength spatter protection.



POWERBALL® ENERGY EFFICIENT WELDING CABLE

Patent pending consolidated copper lug design for high performance & long service life.



WELD CENTRAL™ WELD PROCESS OPTIMIZATION SYSTEM

Welding optimization system with Wizard View® DAQ & monitoring software to maximize OEE.



CONDUIT & CONNECTORS FOR MIG & SAW WIRE

Low-friction polymer and steel lined conduit built tough for industrial applications.



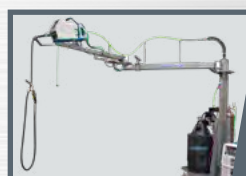
WIRE PILOT® PNEUMATIC FEED ASSIST

Provides simple & effective “push-pull” system to eliminate wire skid friction in MIG & SAW welding.



WIZARDGEAR™ ROBOT CABLE MANAGEMENT

Secures and protects cables attached to robots in harsh industrial environments.



WIZARD BOOM!™ WELDING BOOMS

Features Wire Guide Modules® to provide a versatile boom suitable for all types of wire.



DRUM & REEL HANDLING EQUIPMENT

Heavy duty, US made drum lifters, drum and wood reel dollies, carts and more.



GAS FLOW OPTIMIZATION PRODUCTS

Gas Wizard® Inert Gas Savers and gas flow monitoring & optimization equipment.



TOOLS & MAINTENANCE EQUIPMENT

Wire Wizard® Wire & Welding Pliers and diagnostic tools for MIG wire delivery systems.



NU-ICE DRY ICE CLEANING EQUIPMENT

COMMANDO® dry ice blasting machines, ideal for weld cell & production line cleaning.

ELCO ENTERPRISES, INC.

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Phone 517.782.8040

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POWERBALL® & E-POWER® TORCH PRODUCTS
LOW FRICTION CONDUITS & CONNECTORS
WIRE WIZARD® GUIDE MODULE SYSTEM
WIZARDGEAR™ CABLE MANAGEMENT
BLUE MAGIC® & BLUE CHILL® ANTI-SPATTER
TORCH WIZARD® CLEANING STATIONS
WELD CENTRAL® OPTIMIZATION SYSTEM
DRUM & REEL HANDLING EQUIPMENT*



SUSTAINING MEMBER



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