

Bangkok **Welding**
(Thailand)

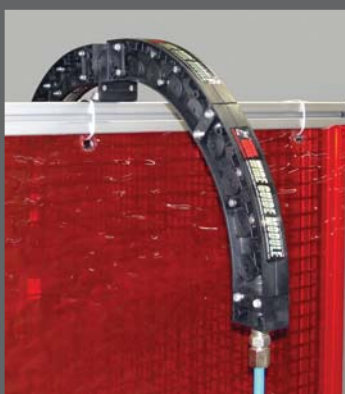
www.bangkokwelding.com

info@bangkokwelding.com

WIRE WIZARD®

WELD WIRE DISPENSING & WELD CELL SUPPORT EQUIPMENT

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



ELC  **ENTERPRISES, INC.**

www.wire-wizard.com

WIRE WIZARD®

WELD WIRE DISPENSING & WELD CELL SUPPORT EQUIPMENT

Dear Welding Associate:

ELCo Enterprises, Inc. is recognized as the industry leader in weld wire dispensing and weld cell support equipment. Since we began in 1985, we've prided ourselves on both quality and innovation. It's through anticipation of customer needs and ongoing dialogue with end users that we have created six distinct product lines under the ELCo name. In this catalog you will find:

Wire Wizard®— our world famous line of wire dispensing products

Torch Wizard™— robotic and semi-automatic torch reaming stations and accessories

Wire Pilot®— weld wire feed assist products

Wizard Shield™— Blue Magic® and Blue Chill™ anti-spatters and dispensing equipment

E-Z Feed™— conduits and connectors product line

ELCo's extensive distributor network ensures that end-users have quick access to individuals trained to support the ELCo product lines. Our area product representatives are an extension of our commitment to service at the end-user level. Yet another example of ELCo's commitment to service is specialized training and product information available online through our website.

We want to be your #1 weld-wire dispensing equipment supplier; our team is committed to maximizing value for you through the finest quality products shipped in a timely manner at a competitive price. New products are always on the drawing board at ELCo. To stay abreast of the latest news and information, please visit and bookmark our website. Remember— even though our website name highlights the Wire Wizard™, we have other Wizards on our team and will be looking for new ones to add to the roster.

Sincerely,



Ed Cooper
President
ELCo Enterprises, Inc.



Sustaining Member



WEMCO
An Association of Welding Manufacturers



GAWDA
GASES AND WELDING DISTRIBUTORS ASSOCIATION

NaVOBA
NATIONAL VETERAN-OWNED BUSINESS ASSOCIATION

ISO 9001:2008
CERTIFIED

www.wire-wizard.com



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FIBER DRUM DISPENSING

FIBER DRUM HOODS AND ACCESSORIES

- ▶ Hood covers designed for 20", 20.4", 23.4", and 26" drums (508, 518, 594 & 660mm)
- ▶ Constructed of tough polyethylene for long shop life
- ▶ Dual windows provide easy access and viewing
- ▶ Flange with tabs securely anchors hood to package
- ▶ Orbital Arm or Direct Pull Kit guarantee smooth wire feeding
- ▶ **Lifetime guarantee against breakage**



NEW

FLANGED HOODS NOW FIT BOTH CHIMED DRUMS & ENVIRONMENTAL PACKS!
(EXCEPT FOR LARGE 26" DRUMS)

WWIC-11
REUSABLE DRUM CORE
for all coreless drums.
Prevents wire flip.



DIRECT PULL KIT Model WWDP

- ▶ Quick disconnect with polished ceramic inlet prevents wire shaving
- ▶ Fits all cone and wire sizes
- ▶ **Lifetime guarantee not to wear out**



WWDP SIDE



CERAMIC INLET



ROUND DRUM HOOD



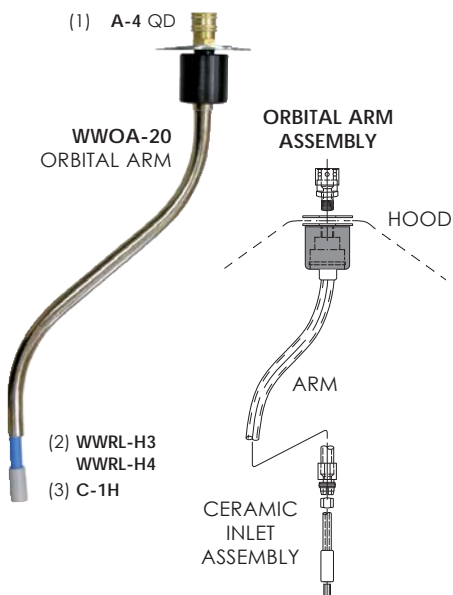
OCTAGON DRUM HOOD



LOW PROFILE OCTAGON HOOD



SQUARE DRUM HOOD



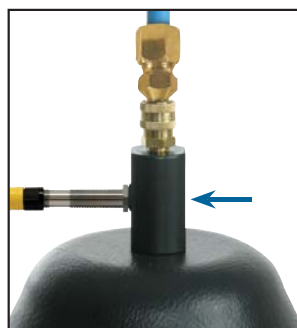
ORBITAL ARM KITS *For tangle-free wire dispensing*

- ▶ Prevents wire from tangling inside the drum
- ▶ Arms available for all wire sizes up to 3/32" (2.4mm)
- ▶ Polished ceramic inlet guide will not shave wire
- ▶ Compatible with all Wire Wizard® Drum Hoods

WIRE PRESENCE SENSOR BLOCK & PROXIMITY SWITCH

Model WWSB-M12 / WWA5-E34 (OR -E35)

- ▶ Detects & signals when wire drum is empty
- ▶ Proximity switch may be connected to PLC to stop welding cycle when wire is depleted
- ▶ Uses 12 mm proximity switch (WWA5-E34), other switches available upon request
- ▶ Compatible with all Wire Wizard® Drum Hoods



ROUND DRUM HOODS 20"-23" (508-584mm) HOODS FIT BOTH CHIMED DRUMS & ENVIRONMENTAL PACKS



DESCRIPTION	PART NO.
20.4" (518mm) Round Hood Only	WW10204F
20.4" (518mm) Round Hood w/Direct Pull Kit	WW10204F-DP
23" (584mm) Round Hood Only	WW10231F
23" (584mm) Round Hood w/Direct Pull Kit	WW10231F-DP
26" (660mm) Round Hood Only	WW10260F
26" (660mm) Round Hood w/Direct Pull Kit	WW10260F-DP
26" (660mm) Round Hood, for chimed drums only	WW10260C-2
26" (660mm) Round Hood w/Direct Pull Kit, for chimed drums only	WW10260DP-2



OCTAGON DRUM HOODS

20.5" (521mm) Octagon Hood (500 LB / 227 KG)	WWOC-20.5
20.5" (521mm) Octagon Hood w/Dir. Pull Kit	WWOC20.5-DP
23.5" (597mm) Octagon Hood (900 LB / 408 KG)	WWOC-23.5
23.5" (597mm) Octagon Hood w/Dir. Pull Kit	WWOC23.5-DP
23.5" (597mm) Low Profile Hood (900 LB / 408 KG)	WWOC
23.5" (597mm) Low Profile Hood w/Dir. Pull Kit	WWOC-DP



SQUARE DRUM HOODS

21" (533mm) Square Hood (500 LB / 227 KG)	WWSC-21
21" (533mm) Square Hood w/Direct Pull Kit	WWSC21-DP
24" (610mm) Square Hood (1000 LB / 453 KG)	WWSC-24
24" (610mm) Square Hood w/Direct Pull Kit	WWSC24-DP
29" (737mm) Square Hood (990 LB / 449 KG)	WWSC-29



DODECAGON HOODS & ACCESSORIES

For 100 lb (45.4 kg) & 300 lb (136 kg) aluminum wire packages

DESCRIPTION	PART NO.
23.5" (597mm) Dodecagon Hood	WWDO-23.5
Connector for EC-4 Conduit	A-12A

ADDITIONAL EQUIPMENT

DESCRIPTION	PART NO.
Direct Pull Kit	WWDP
Sensor Block (12mm)	WWSB-M12
Proximity Switch (NPN)	WWA5-E34
Proximity Switch (PNP)	WWA5-E35
Reusable Drum Core	WWIC-11
Conduit Connection Insulator	WWDI



ORBITAL ARM KITS (with Quick Disconnect)

COMPATIBLE DRUM COVERS & WIRE	PART NO.
20" (508mm) to 23.4" (594mm) Cover for up to .062 (1.6mm) Wire	WWOA-20
20" (508mm) to 23.4" (594mm) Cover for .062-3/32 (1.6-2.4mm) Wire	WWOA-20H
20" (508mm) to 23.4" (594mm) Cover for .062-3/32 (1.6-2.4mm) Alum.	WWOA-20A
26" Drum Cover for Wire Diameter up to .045	WWOA-26

AVAILABLE ORBITAL ARM REPLACEMENT PARTS

(1) Quick Disconnect (QD)	A-4
(2) Replacement Liner for WWOA-20 and WWOA-26	WWRL-H3
Replacement Liner with Inlet Guide for WWOA-20H	WWRL-H4
(3) Inlet Guide with Ceramic Insert	C-1H



FIBER DRUM DISPENSING

DRUM MANUFACTURER CROSS-REFERENCE CHART FOR HOODS*

WIRE MANUFACTURER	PACKAGING	DRUM DIA
AIR LIQUIDE®	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
ALCO TEC WIRE®	311 LB (141 KG)	WWOC
ARCOS ALLOYS®	250 LB (113 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
AVESTA®	250 LB (113 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	600 LB (272 KG)	20.4" (518mm)
	750 LB (340 KG)	26.0" (660mm)
BÖHLER®	550 LB (250 KG)	20.4" (518mm)
EAGLE®	500 LB (227 KG)	20.4" (518mm)
ESAB®	500 LB (227 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
	Octagon 500 LB (227 KG)	20.5" (521mm)
	Octagon 600 LB (272 KG)	20.5" (521mm)
	Octagon 900 LB (408 KG)	23.5" (597mm)
GEDIK® (GeKa®)	110 LB (50 KG)	20.4" (518mm)
	485 LB (220 KG)	20.4" (518mm)
	550 LB (250 KG)	23.4" (594mm)
GRYTGOLS BRUK®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
HARRIS WELCO®	500 LB (227 KG)	20.4" (518mm)
HYUNDAI®	less than 600 LB (272 KG)	20.4" (518mm)
	600 LB (272 KG)+	26.0" (660mm)
HOBART®	250 LB (113 KG)	23.4" (594mm)
	400 LB (181 KG)	20.4" (518mm)
	Tubular 500 LB (227 KG)	23.4" (594mm)
	Solid 600 LB (272 KG)	20.4" (518mm)
	Tubular 600 LB (272 KG)	23.4" (594mm)
	Tubular 700 LB (318 KG)	23.4" (594mm)
	Solid 950 LB (431 KG)	23.4" (594mm)
	Dodecagon 300 LB (136 KG)	23.4" (594mm)
	Dodecagon 100 LB (45.4 KG)	23.4" (594mm)
INE	440 LB (200 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)
	1325 LB (600 KG)	26.0" (660mm)
ISAF	661 LB (300 KG)	20.4" (518mm)
KAYNAK®	550 LB (250 KG)	20.4" (518mm)
KOBELCO®	440 LB (200 KG)	20.4" (518mm)
	550 LB (250 KG)	20.4" (518mm)

WIRE MANUFACTURER	PACKAGING	DRUM DIA
LINCOLN ELECTRIC®	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
	900 LB (408 KG)	23.4" (594mm)
	1000 LB (453 KG)	23.4" (594mm)
	Square 275 LB (125 KG)	24.0" (610mm)
	Square 500 LB (227 KG)	21.0" (533mm)
	Square 900 LB (408 KG)	24.0" (610mm)
	Square 1000 LB (453 KG)	24.0" (610mm)
	Square 2000 LB (907 KG)	29.0" (737mm)
McKAY®	less than 600 LB (272 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
	750 LB (340 KG)	23.4" (594mm)
NATIONAL STANDARD®	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
	500 LB (227 KG)	20.4" (518mm)
	900 LB (408 KG)	23.4" (594mm)
NOVAFIL®	550 LB (250 KG)	20.4" (518mm)
PARAMOUNT®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
PITTARC® (PITTINI)	250 KG (550 LB)	20.4" (518mm)
	350-450 KG (772-992 LB)	23.4" (594mm)
	600-700 KG (1323-1543 LB)	26.0" (660mm)
POLYMET®	Round Drums	23.4" (594mm)
PRAXAIR® (PROSTAR®)	Square 275 LB (125 KG)	21.0" (533mm)
	Square 550 LB (250 KG)	21.0" (533mm)
SANDVIK®	600 LB (272 KG)	20.4" (518mm)
SELECT-ARC®	250 LB (113 KG)	20.4" (518mm)
	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
THERMAL ARC®	500 LB (227 KG)	20.4" (518mm)
	830 LB (376 KG)	23.4" (594mm)
TRI-MARK®	400 LB (181 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)
	600 LB (272 KG)	23.4" (594mm)
WASHINGTON ALLOYS®	500 LB (227 KG)	20.4" (518mm)
WELDMARK®	500 LB (227 KG)	20.4" (518mm)
	1000 LB (453 KG)	26.0" (660mm)
WISCONSIN WIRE WORKS®	250 LB (113 KG)	20.4" (518mm)
	500 LB (227 KG)	20.4" (518mm)

* Drum sizes have been supplied by the manufacturer or their distributors who, at their discretion, reserve the right to change product standards without notice. To the best of ELCo's knowledge, information presented is accurate and current.

All packaging is round unless otherwise noted.

DRUM DOLLIES (1200 LB/544KG capacity) See all dollies & carts on pages 40-41



FDD-MD Universal Drum Dolly (reversible design)
For round, square or octagon drums up to 25" (635mm)



Setup for larger drums



FDD-26-12
Heavy Duty Dolly for 26"
(660mm) Round Drums



WWSD Skid Dolly
(27.5"/698.5mm square)

FIRE RESISTANT FIBER DRUM AND BOX COVERS

FOR 20.4" to 24" ROUND, SQUARE OR OCTAGON BULK PACKAGES

Wire Wizard® durable fire resistant covers provide effective protection for fiber or cardboard packaging located near the weld cell. Available for round, square or octagon bulk wire packages.

- ▶ Constructed of tough fire resistant material
- ▶ Simple slip-on/slip-off design
- ▶ OSHA & NFPA (USA) codes require fire protection for any combustible wire packaging within 35 ft (10.7m) of the arc
- ▶ Covers meet NFPA Code 51b, "Standard for Fire Prevention During Welding, Cutting and Other Hot Work"

NEW



From OSHA.GOV website:

Standard Number: 1910.252(a)(2)(vii)

Relocation of combustibles. Where practicable, all combustibles shall be relocated at least 35 feet (10.7 m) from the work site. Where relocation is impracticable, **combustibles shall be protected with flameproofed covers** or otherwise shielded with metal or asbestos guards or curtains.

For details on NFPA Standards, see NFPA Code 51b documentation, available through www.nfpa.org

FIRE RESISTANT DRUM COVERS

DESCRIPTION	PART NO.
Fire Resistant Drum Cover - Round 20.4" (518.2mm)	WWDC-20.4-R
Fire Resistant Drum Cover - Round 23.4" (594.4mm)	WWDC-23.4-R
Fire Resistant Drum Cover - Round 26" (660mm)	WWDC-26-R
Fire Resistant Drum Cover - Square 21" (533.4mm)	WWDC-21-S
Fire Resistant Drum Cover - Square 24" (609.6mm)	WWDC-24-S
Fire Resistant Drum Cover - Octagon 20.5" (520.1mm)	WWDC-20.5-OC
Fire Resistant Drum Cover - Octagon 23.5" (597mm)	WWDC-23.5-OC

WIRE LEVEL GAUGE FOR DRUMS AND BOXES

Model DLG

The Wire Level Gauge makes it easy to detect the amount of wire left in wire drums or boxes. The gauge features magnetic wire detection that slides down the drum as wire is depleted, offering a convenient way to monitor wire usage.

- ▶ Detects level of wire remaining in the drum with colors & percentages
- ▶ Compatible with 500–1,000 LB (227–453 KG) drums/boxes (reversible design)
- ▶ Compatible with solid steel wires in fiber drum or cardboard packaging, not compatible with cored or non-ferrous wires



Close-up view

Wire Level Gauge Mounted on Drum





MECHANICAL TURN TABLE

MECHANICAL TURN TABLE Model WWTT-2012

- ▶ 1000 lb (453kg) capacity accepts 20" to 26" (508-660mm) drums
- ▶ Designed to dispense all sizes and varieties of wire
- ▶ New and improved design includes built-in fork slots and optional wheels for easy mobility
- ▶ 4-axis adjustable arm with ceramic inlet guide prevents wire shaving
- ▶ Quick disconnect allows for easy conduit connections
- ▶ Excellent for submerged arc applications
- ▶ Optional cover will not compromise accessibility

Specifications

Height: 42" (1.067m)

Width: 30" (762mm)

Length: 26" (660.4mm)

Weight: 142 lbs (64.5kg)



TOP VIEW OF TURN TABLE
SHOWING WIRE GUIDE &
WIRE RETAINER RING



WWTT-WHEEL-12 Optional wheels



WWTT-COVER-13
Optional Cover
(open & closed)



WWTT-2012
MECHANICAL
TURN TABLE

BRAKE KITS FOR MECHANICAL TURN TABLE

Model WWTT-BRAKE-1-12 (OR WWTT-DB-12 FOR DRAG BRAKE KIT)

- ▶ Slows and stops drum for welding applications where a higher wire feed speed is required and prevents over-rotating

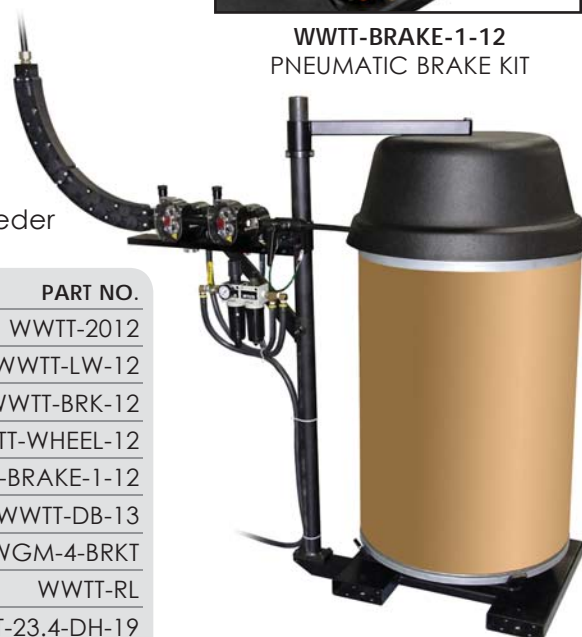
WIRE PILOT® TURN TABLE ADAPTER KITS

Models PFA-WWTT-B, PFA-WWTT-B1 & PFA-WWTT-B2

- ▶ Firmly mounts the Wire Pilot® Feed Assist(s) (see page 31) and filter/regulator/lubricator to the top of the turn table
- ▶ Allows for longer conduit runs from the drum to the wire feeder



WWTT-BRAKE-1-12
PNEUMATIC BRAKE KIT



PFA-WWTT-B2 WIRE PILOT® TURN
TABLE ADAPTER KIT WITH DUAL
FEED ASSISTS AND LARGE WIRE
WIZARD® GUIDE MODULES
Ideal setup for many large
diameter wire SAW applications

ITEM	PART NO.
Mechanical Turn Table for wire under 3/32" (2.4mm)	WWTT-2012
Mechanical Turn Table for large wire over 3/32" (2.4mm)	WWTT-LW-12
Mechanical Turn Table (WWTT-2012) w/assembled pneumatic brake	WWTT-BRK-12
Turn Table Optional Wheels (set of 4)	WWTT-WHEEL-12
Pneumatic Brake Kit for Mechanical Turn Table	WWTT-BRAKE-1-12
Drag Brake Kit for Mechanical Turn Table	WWTT-DB-13
Wire Wizard Guide Module® Turn Table Adapter Bracket	WGM-4-BRKT
Turn Table Replacement Liner, includes ceramic inlet	WWTT-RL
Turn Table Replacement Wire Retainer	WWTT-23.4-DH-19
Turn Table Protective Cover	WWTT-COVER-13
Feed Assist Adapter Kit without Wire Pilot® Feed Assist	PFA-WWTT-B
Feed Assist Adapter Kit with 1 Wire Pilot® Feed Assist	PFA-WWTT-B1
Feed Assist Adapter Kit with 2 Wire Pilot® Feed Assists	PFA-WWTT-B2



NON-STOP WIRE DISPENSING SYSTEM™

A unique process joins the end wire from a used drum with the start wire of a new full drum. Both butt-welding* and flash removal operations take only seconds and the two wire ends may be joined during the welding cycle.

- ▶ **Eliminates downtime for wire changeover**
- ▶ No operator action needed - robots can continue to weld while the next full drum is being installed
- ▶ Designed for use with optional **Wire Pilot® Feed Assist & Wire Guide Modules**
- ▶ Works with one or two-station robotic cells (2 or 4 drums)
- ▶ Accepts any fiber drum or cardboard wire packaging design
- ▶ Easy-to-use resistance Butt Welder (*welds up to .078 / 2mm wire*)
- ▶ Appropriate drum-handling carts available

Non-Stop System Dimensions

2 Drum Unit: 47" W x 29" D x 7' H (1.2m W x 0.74m D x 2.13m H)

4 Drum Unit: 47" W x 55" D x 7' H (1.2m W x 1.4m D x 2.13m H)

**Wire manufacturer must present wire end at top of dispensing drum to butt-weld beginning and ending of wires. Call customer service for information.*

NON-STOP WIRE DISPENSING SYSTEMS & ACCESSORIES

DESCRIPTION	PART NO.
System with 2 stations for 20.4" (518mm) Ø Drums (1-Torch)	NSW-20.4-2
System with 4 stations for 20.4" (518mm) Ø Drums (2-Torch)	NSW-20.4-4
System w/2 stations: 1000LB (453 KG) Accu-Pak Drums (1-Torch)	NSW-SC24-2
System w/4 stations: 1000LB (453 KG) Accu-Pak Drums (2-Torch)	NSW-SC24-4
System w/2 stations: 23.5" (597mm) Octagon Drums (1-Torch)	NSW-OC23.5-2
System w/4 stations: 23.5" (597mm) Octagon Drums (2-Torch)	NSW-OC23.5-4
Wall Mounted System w/2 stations: Compatible with most drums	NSW-WM
Wire Guide Module Swivel Kit Adapter (allows 360° rotation)	WGM-NSW-SW
Butt Welder Docking Station (110V)	NSW-BW-DS-R13
Butt Welder Docking Station (220V US)	NSW-BW-DS-220-R13
Butt Welder Docking Station (220V European)	NSW-BW-DS-220EU-R13
Portable Resistance Butt Welder (110V)	NSW-BW-R13
Portable Resistance Butt Welder (220V US)	NSW-BW-220-R13
Portable Resistance Butt Welder (220V European)	NSW-BW-220EU-R13
Wire Sizer for .035" (0.9mm) wire*	NSW-BW-WS-035
Wire Sizer for .045" (1.2mm) wire*	NSW-BW-WS-045
Wire Sizer for .052" (1.3mm) wire*	NSW-BW-WS-052
Wire Sizer for .062" (1.6mm) wire*	NSW-BW-WS-062
Wire Sizer for .078" (2mm) wire*	NSW-BW-WS-078
Wire Sizer without dies* (<i>must specify wire size when ordering</i>)	NSW-BW-WS-1
Wire Dresser for Electric Rotary Tool (<i>alternative to Wire Sizer</i>)	NSW-BW-WD
Wire Parters (<i>included on butt welder docking station</i>)	BW-WP
Wire Gage Block (<i>included on butt welder docking station</i>)	WGB
Empty Barrel Signal Flag	NSW-BCF

** Wire Sizer replacement dies available. Contact customer service for more information.*



NSW-BCF
New! Optional
Empty Barrel
Signal Flag

NSW-SC24-2

Shown with optional **Butt Welder Docking Station**. Docking Station includes Butt Welder, Wire Parters and Wire Gage Block.



WGB
WIRE GAGE BLOCK
for .035, .045, .052 & .062 wire



BW-WP WIRE PARTERS
Leaves flat wire ends for easy butt-welding



NSW-BW-R13 or NSW-BW-220-R13
PORTABLE RESISTANCE BUTT WELDER
Welds up to .078 (2mm) ferrous metal wire



NON-STOP™ WIRE DISPENSING SYSTEM

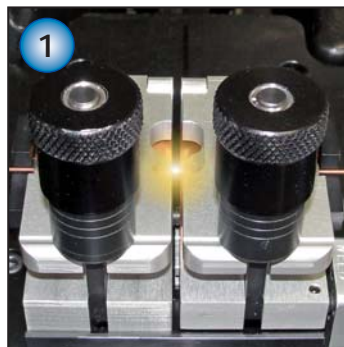
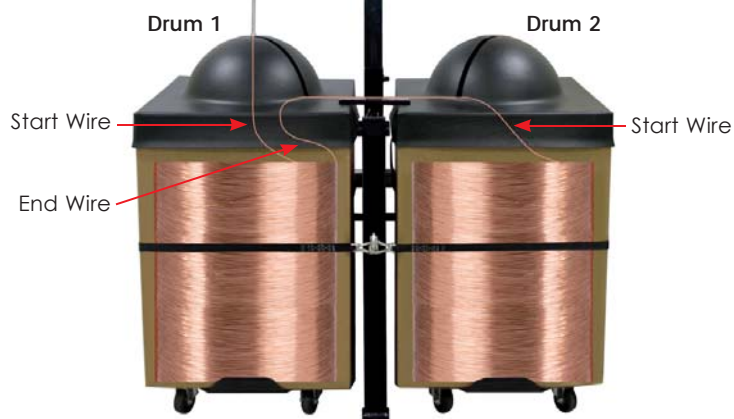
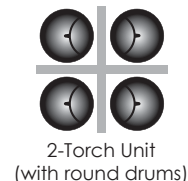
Eliminates Downtime for Wire Changeover!



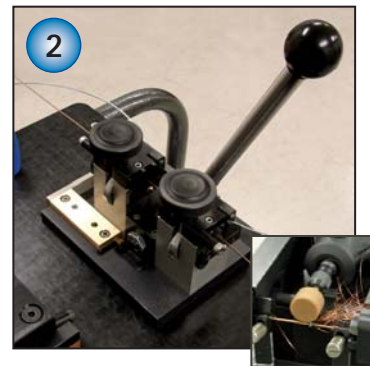
COMPONENTS & BASIC SETUP



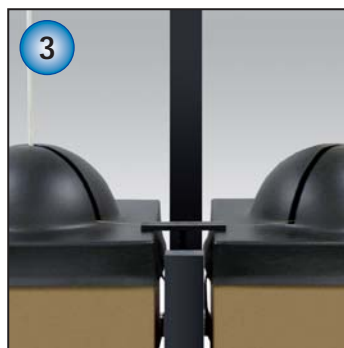
DRUM SETUP



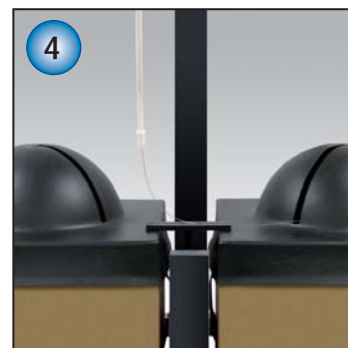
1 Join the end wire from drum 1 with the start wire from drum 2 using the Butt Welder.



2 Remove the flash in the wire joint using the Wire Sizer (or rotary tool with stone bit).



3 Position the wire on the path-way between the two drums.



4 When wire from drum 1 runs out, the transfer arm will switch over to drum 2. Simply replace empty drum and repeat steps 1-3.

WIRE STRAIGHTENERS

Wire Wizard® manufactures four versions of wire straighteners that can be used to straighten or recast all types of wire. The main body is constructed of aluminum, making our straighteners some of the lightest in the market. All models are equipped with a locating calibration on the face of the unit and a fine adjustment scale on the tension knob. This results in an extremely fast and accurate setting of wire cast. Our full range of fittings and inlet guides guarantee a trouble-free fit for any application or system.



SMALL WIRE STRAIGHTENERS MODELS WSS-100 & WSS-100-A

For Wire Sizes .035 to .062 (Order [WSS-100-A](#) for Aluminum Wire)

Dimensions: 3.74" W x 3" H x 1.63" D (95mm W x 78mm H x 41.3mm D)

Weight: 1 lb (0.45 kg)



WSS-100 Drive Rolls
U-Groove Drive
Rolls for Steel Wire



WSS-100-A Drive Rolls
V-Groove Drive Rolls
for Aluminum Wire

INSULATED MOUNTING KITS

Available for all models



WSS-100-IK
Small
WSM-100-IK
Medium
WSL-100-IK
Large

SMALL WIRE STRAIGHTENER FITTINGS*

NON-THREADED FITTINGS

Connection to
disconnect, on
feeder or in-line



Steel Wire: A-1QD-12 or A-1QD-5/32 (for large wire)

Connection to
disconnect, on
feeder or in-line



Aluminum Wire: A-1QD-5/32 & A-4L-H liner



Steel or Aluminum Wire: A-1C-S-12 Delrin
with ceramic inlet



WSS-100
Steel Wire Straightener
or
WSS-100-A
Aluminum Wire Straightener

*Fittings may be used as inlets or outlets
depending on setup

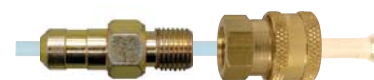
THREADED FITTINGS

A-3 Quick Disconnect



Steel Wire: A-1LN-S-12 or A-1LN-S-5/32 (for large wire)

A-3 Quick Disconnect



Aluminum Wire: A-1LN-S-5/32 & A-4L-H liner

MEDIUM WIRE STRAIGHTENER

MODEL WSM-100

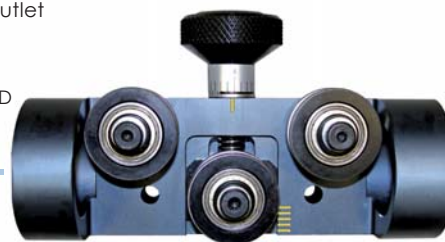
For Wire Sizes .062 to 3/32" (1.6 - 2.4mm)

Dimensions: 5.71" W x 3.34" H x 1.875" D
(145mm W x 84.7mm H x 47.63mm D)

Weight: 1.75 lbs (0.8 kg)

FITTINGS FOR WSM-100

Order **A-1LN-K** for Inlet/Outlet
Kit (includes two A-1LN's)



LARGE WIRE STRAIGHTENER

MODEL WSL-100

For Wire Sizes 3/32" (2.4mm) and Larger

Ideal for heavy duty SAW applications

Dimensions: 8.66" W x 4.09" H x 2.25" D
(220mm W x 103.8mm H x 57.2mm D)

Weight: 4 lbs (1.8 kg)

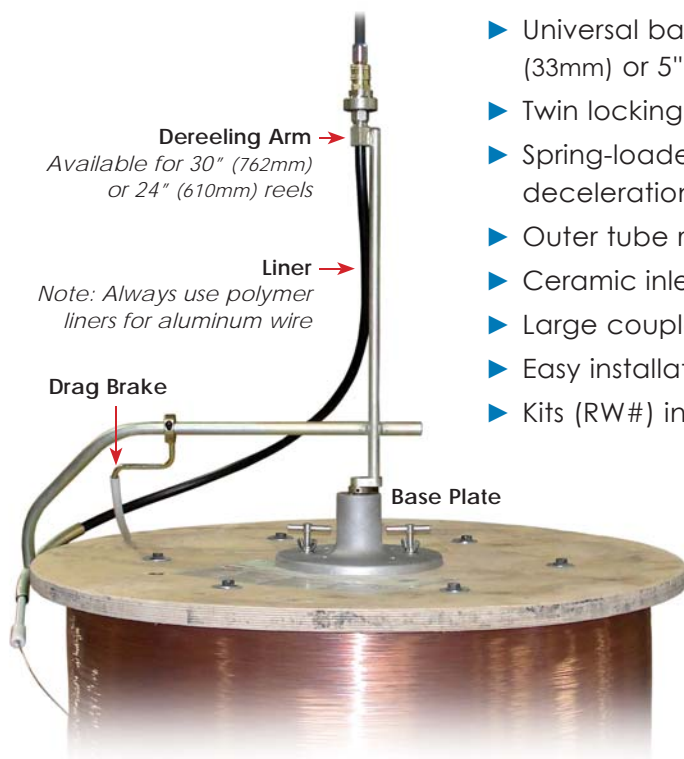
FITTINGS FOR WSL-100

Order **A-1LN-K-LW** for Inlet/
Outlet Kit (inc. two A-1LN-LW's)



DEREELING ARMS FOR WOOD AND PLASTIC REELS

- ▶ Universal base plate designs fit all wood or plastic reels with 1-5/16" (33mm) or 5" (127mm) center arbors
- ▶ Twin locking cams secure base plate to reel for stability
- ▶ Spring-loaded drag brake provides smooth acceleration and deceleration of feed arm and prevents wire from shingling off reel
- ▶ Outer tube radius and lead will not change wire cast
- ▶ Ceramic inlet guide provides long wear and prevents wire shaving
- ▶ Large coupler bearing resists both thrust and "G" loads
- ▶ Easy installation, typically requires little adjustment
- ▶ Kits (RW#) include arm, liner, brake, base plate & quick disconnect



C-36 BASE PLATE FOR 5" (127mm) ARBOR HOLES (use C-36-NS for Nat. Standard® reels with 3/4" wood)



C-37 BASE PLATE FOR 1-5/16" (33mm) ARBOR HOLES

DEREELING ARMS AND COMPONENTS

ITEM/WIRE SIZE	REEL DIAMETER	ARBOR HOLE SIZE	LINER TYPE	PART NO.
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	5" (127mm)	Steel	RW1034-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	5" (127mm)	Polymer	RW1034P-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	1-5/16" (33mm)	Steel	RW1034-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	1-5/16" (33mm)	Polymer	RW1034P-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	5" (127mm)	Steel	RW1035-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C36
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	1-5/16" (33mm)	Steel	RW1035-C37
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	1-5/16" (33mm)	Polymer	RW1035P-C37
Dereeling Arm Kit for 1/16" - 5/32" (1.6-4mm) wire	30" (762mm)	5" (127mm)	Steel (lg.)	RW1028-C36
Dereeling Arm Kit for 1/16" - 5/32" (1.6-4mm) wire	30" (762mm)	1-5/16" (33mm)	Steel (lg.)	RW1028-C37
Arm for Nat. Standard® 3/4" wood reels, .035-1/16" wire	24" (610mm)	5" (127mm)	Steel	RW1035-C36NS
Arm for Nat. Standard® 3/4" wood reels, .035-1/16" wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C36NS
Base Plate for 5" (127mm) Arbor Holes	—	5" (127mm)	—	C-36
Base Plate for 1-5/16" (33mm) Arbor Holes	—	1-5/16" (33mm)	—	C-37
Base Plate for National Standard® Reels w/ 3/4" wood	—	5" (127mm)	—	C-36-NS
Replacement Arm for 30" (762mm) Reels (steel liner)	30" (762mm)	—	Steel	C-34
Replacement Arm for 30" (762mm) Reels (polymer liner)	30" (762mm)	—	Polymer	C-34P
Replacement Arm for 24" (610mm) Reels (steel liner)	24" (610mm)	—	Steel	C-35
Replacement Arm for 24" (610mm) Reels (polymer liner)	24" (610mm)	—	Polymer	C-35P
Large Replacement Arm for 30" (762mm) Reels	30" (762mm)	—	—	C-28
Replacement drag brake for all arms	—	—	—	C-12-12

Replacement Liners: C-34-LINER (steel) & C-34P-LINER (polymer) for all RW1034 arms; C-35-LINER (steel) & C-35P-LINER (polymer) for all RW1035 arms; C-28-LINER (steel) for the RW1028 arm.

For National Standard® wood reels: Be sure to check the thickness of the wood top prior to ordering, those that have a 3/4" thick top require the specific National Standard® part numbers listed above.

SINGLE AND TANDEM VERTICAL DEREELERS FOR WOOD REELS

Models WWA-12-1 (single) & WWA-12-2 (tandem)

Wire Wizard® Single and Tandem Vertical Dereelers are built to deliver large diameter wire from 1/16" (1.6mm) to 3/16" (4.8mm) on up to 30" (762mm) wood reels. Wire may be dispensed from either the top or the bottom of the dereeler. The tandem model (shown at right) offers dispensing of two wood reels with a small footprint, saving valuable floor space.

- ▶ Wire Wizard® Guide Modules (included) eliminate points of high friction when dispensing wire from the base
- ▶ Adjustable brake allows fine tuning to prevent wire flip
- ▶ Optional **Wire Pilot® Feed Assist(s)** recommended for reduced pull on the feed motor & long distance runs
- ▶ Polished ceramic inlet guides prevent wire shaving

MODEL WWA-12-2

Tandem Vertical Dereeler shown with optional Feed Assists and top/bottom dispensing setup.



MOTORIZED STEM PACK DEREELER Model WWA-8

The heavy duty Wire Wizard® Motorized Stem Pack Dispensing System is the ideal way to handle large diameter wire from 1/16" (1.6mm) to 3/16" (4.8mm). This horizontal dereeler allows for accurate welding with large wire by completely eliminating wire flip as well as preventing flux-core splitting, excessive tip wear, pulsating, burn back and blown holes.

- ▶ **Eliminates wire flip**
- ▶ Compatible with up to 2,200 LB (998 KG) bulk stem packs and wood reels, for up to 3/16" (4.8mm) wire
- ▶ Does not change the cast of the wire
- ▶ Helps prevent tip wear, pulsating, burn back & blown holes
- ▶ Dispenses large diameter wire at speeds up to 250 IPM
- ▶ Optional protective cover available (WWA-8-C)
- ▶ Optional **Wire Pilot® Feed Assist(s)** can be adapted to the unit for reduced pull on the feed motor & for long distance feeding
- ▶ Heavy duty pneumatic motor – requires no electrical connection



Single or tandem Wire Pilot® Feed Assists may be adapted to the unit using the PFA-DM mounting bracket



MODEL WWA-8
STEM PACK DISPENSER

WOOD REEL COVERS

Models RWC1111-30 & RWC1111-30S

- ▶ Designed specifically for 30" (762mm) spools
- ▶ Prevents access to dispensing unit during operation
- ▶ Available in both **unbreakable** polyethylene (RWC1111-30) or economical, soft sided (RWC1111-30S) models
- ▶ Clear side and top panels provide easy access
- ▶ Polyethylene model comes fully assembled (commercially shipped)
- ▶ Soft cover is shippable via UPS



RWC1111-30S SOFT COVER
helps protect welding wire
from dust and other
contaminants



RWC1111-30 REEL ASSEMBLY
shown on a WRSC
Staging Cart



WIRE WIZARD GUIDE MODULE® SYSTEM

THE NEW PATH OF LEAST RESISTANCE!™



**WIRE
WIZARD®**

GUIDE MODULE SYSTEM®

The innovative **Wire Wizard Guide Module® System** utilizes a series of rollers with bearings to allow the weld wire to "coast" around bends and corners in the conduit, eliminating the points of high friction that occur in these areas. By eliminating the friction on the wire, it eliminates arc failures, improves consistency and enables considerably longer conduit runs of 100 feet or more, allowing wire packages to be centrally located. Each 45° Guide Module may be connected to additional modules to form turns of 90°, 135° or 180° within the wire dispensing system. Compatible with ferrous and non-ferrous wires. PATENT PENDING

- ▶ **Eliminates skid friction** on the wire in areas where bends/corners are necessary throughout the wire dispensing system
- ▶ Smooth, low friction wire feeding **improves consistency of welds, eliminates arc failures and reduces downtime**
- ▶ In product testing, the Guide Module turned **POUNDS of pull force at the feeder into OUNCES!**
- ▶ Allows long distance conduit runs of 100 ft+ (30.5m+)
- ▶ Increases life of the conduit & consumables by reducing friction
- ▶ Saves floor space by allowing wire packages to be located closer to the cell wall
- ▶ Considerably less expensive than alternative methods of eliminating friction on wire over long distances
- ▶ 45° modules may be connected together to form a 90° turn, 135° turn, 180° turn
- ▶ Mounting accessories available for most welding applications
- ▶ Tool & Diagnostic Kit available, inc. assembly & testing tools
- ▶ **Four Models Available to Cover Virtually all Welding Applications:**
 - Standard Guide Module:** For solid wires .035 to 5/64" (0.9 – 2mm)
 - 90° Mini Guide Module:** For solid wires up to .052 (1.3mm), compact size for tight 90° turns
 - Heavy Duty Guide Module HD*:** For cored & stainless steel wires .035 to 5/64" (0.9 – 2mm)
 - Large Guide Module XL*:** Compatible with large wire 3/32" to 5/32" (2.4 – 4mm)
- ▶ **3 YEAR GUARANTEE!** (excludes damage caused by industrial contaminants)

**The Guide Module HD and XL models contain heavy duty steel rollers*

NEW



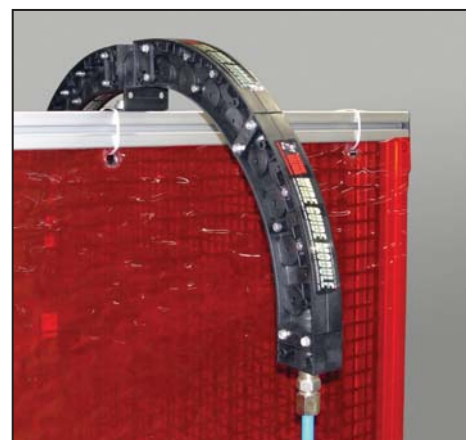
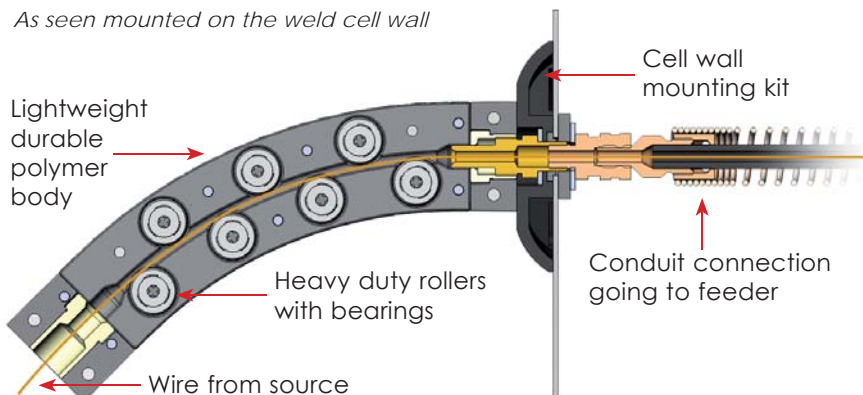
WGM-M-1 MINI 90°
Wire Wizard®
Guide Module with
5" (127mm) radius



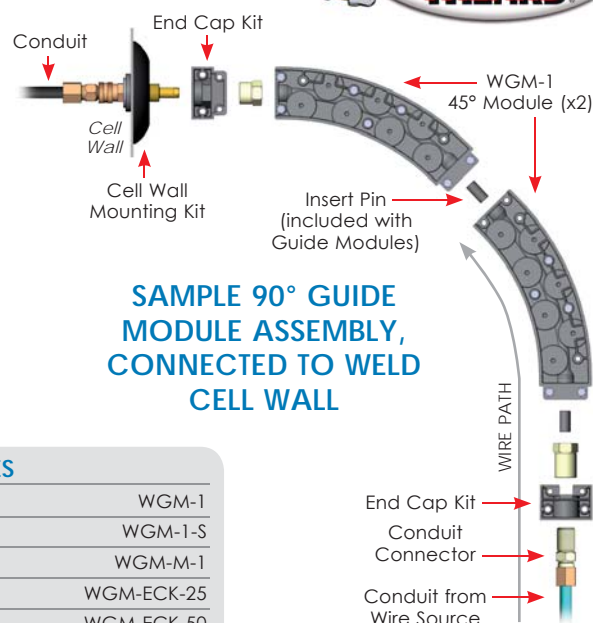
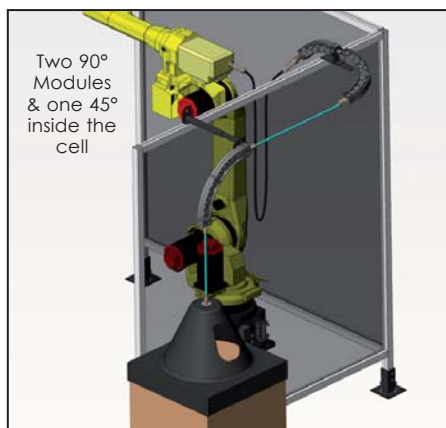
45° Guide
Module
mounted on
drum cover

INTERNAL VIEW

As seen mounted on the weld cell wall



Installation with 90° and 45° (cell interior)
Guide Modules mounted on top of cell wall



SAMPLE 90° GUIDE MODULE ASSEMBLY, CONNECTED TO WELD CELL WALL

STANDARD WIRE GUIDE MODULE PARTS & ACCESSORIES

Wire Wizard Guide Module®, Single 45° (for wire up to 5/64" / 2mm)	WGM-1
Wire Wizard Guide Module® HD, Single 45° (for stainless/cored wire up to 5/64" / 2mm)	WGM-1-S
Wire Wizard Guide Module® Mini 90°, Single 90° (for wire up to .052 / 1.3mm)	WGM-M-1
Guide Module End Cap Kit 1/4" NPS-F (for A-4 or A-4-ST disconnect)	WGM-ECK-25
Guide Module End Cap Kit 1/2" NPS-F (for A-10HM, A-10XM, A-10RM or A-5)	WGM-ECK-50
Guide Module Conduit Connector for EC-4-R Conduit	A-10HM
Guide Module Conduit Connector for FC-X Conduit	A-10XM
Guide Module Conduit Connector for FC-XH and EC-5 Conduit	A-10RM
Guide Module Insulated Connector with Quick Disconnect	WGM-A5
Guide Module Direct Pull Inlet (includes ceramic inlet guide)	WGM-DP-LW
Guide Module Support Bracket	WGM-021
Guide Module Support Bracket with Slotted Holes	WGM-024
Guide Module 45° Angle Support Bracket	WGM-025
Guide Module Weld-on or Bolt-on Support Bracket	WGM-044
Guide Module Bracket for Stacking/Mounting up to 3 Guide Modules	WGM-SMB-3
Guide Module 90° Hanging Bracket Kit	WGM-1-90-BRKT
Guide Module 45° Hanging Bracket Kit	WGM-1-BRKT
Guide Module Face Mount Bracket w/nut for A-10HM or A-10XM	WGM-A-10BK
Guide Module Insulated Face Mount Bracket w/nut & insulators for A-10HM or A-10XM	WGM-2-BRKT
Guide Module Side Mounting Bracket for Attachment to the WGM-PFA-STAND	WGM-3-BRKT
Guide Module Drum Mounting Kit for use w/Wire Wizard® Hoods	WGM-DK
Guide Module 2-13" (51-330mm) Adjustable Extension Arm with Adjustable Length & Height	WGM-CM-1
Guide Module 10" (254mm) Adjustable Extension Arm w/Hinge Point	WGM-EA-10
Guide Module 20" (508mm) Adjustable Extension Arm w/Hinge Point	WGM-EA-20
Guide Module Swivel Kit for Direct Connection to Wire Feeder Disconnect	WGM-FSK
Guide Module Drum Hood Swivel Kit for use w/Wire Wizard® Hoods	WGM-HSK
Guide Module Swivel Kit for Connecting Stationary to Swiveling Guide Modules	WGM-MSK
Guide Module Floor Mounting Bracket	WGM-FLM
Guide Module Feeder Inlet Mounting Kit	WGM-IK
Guide Module L-bracket Mounting Kit	WGM-LBM-BRKT
Guide Module Union Adapter	WGM-UA
Guide Module Union Adapter Kit (washer & bracket mounts)	WGM-UAK
Guide Module Wall Mount Kit, Single Sided	WGM-WK-1-1
Guide Module Adjustable Wall Mount Kit for up to 3" (76mm) thick walls, Single Sided	WGM-WK-1-3
Guide Module Wall Mount Kit, Double Sided	WGM-WK-2-1
Adjustable Drum/Reel Stand for Guide Modules, 50"-90" H (1270-2286mm)	WGM-PFA-STAND
Guide Module Swivel Kit for WGM-PFA-STAND	WGM-STAND-SW
Guide Module Tool & Diagnostic Kit - inc. required tools for assembly & testing	WGM-ATK

LARGE WIRE GUIDE MODULE PARTS & ACCESSORIES

Large Wire Wizard Guide Module® XL, Single 45° (for wire 3/32" to 5/32" / 2.4-4mm)	WGM-LW-1
Large Guide Module End Cap Kit, 3/8" NPS-F (for A-4HD disconnect)	WGM-LW-ECK-38
Large Guide Module End Cap Kit, 1/2" NPS-F (for A-9)	WGM-LW-ECK-50
Large Guide Module Conduit Connector for FC-XH-LW Conduit	A-9
Hanging Bracket for Large Wire Guide Modules (45° or 90°)	WGM-LW-BRKT

GUIDE MODULE TOOL & DIAGNOSTIC KIT Model WGM-ATK



Contains all the essential tools for installation & testing of the Wire Wizard® Guide Module System.

Kit Includes:

- ▶ Required wrenches and pliers
- ▶ Countersink Tool (see page 43)
- ▶ Stone bit for rotary tools
- ▶ Wire Draw Gauge (see page 43)
- ▶ Extra nuts & bolts
- ▶ Installation videos (on USB flash drive)

FOR CORED WIRE APPLICATIONS:

- Required for initial feeding of cored wires.
- ▶ **Wire Guide Caps (50 pk)**
GC-1 for up to .052 wire
GC-2 for .062-3/32" wire
- ▶ **GC-CRIMPER** Crimper for Wire Guide Caps

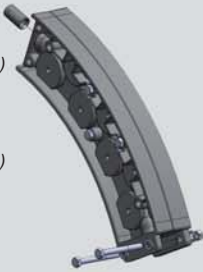


45° WIRE GUIDE MODULES

WGM-1
For solid wire
up to 5/64" (2mm)

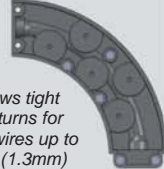
WGM-1-S
For cored &
stainless wire
up to 5/64" (2mm)

WGM-LW-1
For large wire
5/64" to 3/32"
(2mm-4mm)



90° MINI GUIDE MODULE

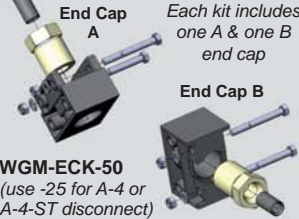
1" (25.4mm)



Allows tight
90° turns for
solid wires up to
.052 (1.3mm)

Part # **WGM-M-1**
Uses same end caps as WGM-1

END CAP CONNECTORS



WGM-ECK-50
(use -25 for A-4 or
A-4-ST disconnect)

WGM-ECK-LW-50 For WGM-LW-1
(use -38 for A-4HD disconnect)

FACE MOUNT BRACKET KIT

Allows 360° directional adjustment



Part #
WGM-A-10BK

Add WGM-A5 or order WGM-2-BRKT
for insulated connections

CONDUITS & FITTINGS

EC-3-R (4.4mm I.D.)

Fittings: A-16F-3 or A-10C-S

EC-4-R (7.6mm I.D.)

Fittings: A-16F-4 or A-10C-H

EC-5 (10.2mm I.D.)

Fittings: A-16F-5 or A-10R

EC-6 (14mm I.D.)

Fittings: A-16F-6 or A-9

Screw-on Fitting
(A-16F-#)

WGM-A5 Insulated Connector

Threaded Connector

Compression
(A-10##)

A-5 Quick Disconnect

Guide Module End Cap

*See catalog or
website for additional
options & accessories

WIRE WIZARD® POLYMER CONDUIT

CONDUITS & FITTINGS

FC-X (6.1mm I.D.)

Fitting: A-10C-X

FC-XH (7.4mm I.D.)

Fitting: A-10R

FC-XH-LW (10mm I.D.)

Fitting: A-9

FC-X-SW (2.3mm I.D.)

Only for wire .035 & under

WIRE WIZARD® EXTRA FLEXIBLE CONDUIT

Compression
(A-10##)

Threaded Connector

Swaged Fitting
(Pre-cut only)

WGM-A5 Insulated Connector

A-5 Quick Disconnect

Guide Module End Cap

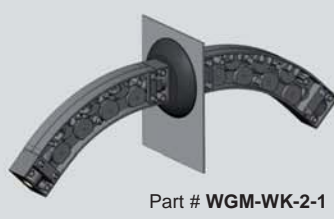
*See catalog or
website for additional
options & accessories

CELL WALL MOUNTING KIT, SINGLE SIDED



Part # **WGM-WK-1-1**

CELL WALL MOUNTING KIT, DOUBLE SIDED



Part # **WGM-WK-2-1**

ADJUSTABLE WALL MOUNT BRACKET



Part #
WGM-WK-1-3
Adjustable for
up to 3" (76 mm)
thick walls

FLOOR MOUNTING BRACKET



Part #
WGM-FLM
Modules may
be attached to
one or both
sides

GUIDE MODULE STAND FOR DRUM OR WOOD REEL APPLICATION



Part #
WGM-PFA-STAND
Includes stand and one
adjustable extension arm

Optional
swivel
with 90°
module

WWDP
Direct
Pull Kit

Drum -or-
Wood Reel

WGM-A-
10BK

Wire Pilot® Feed
Assist Option

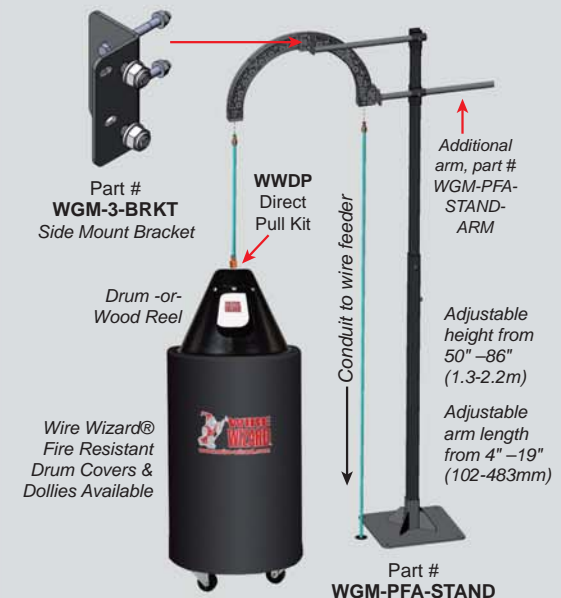
Wire Spool Option
WGM-PFA-
STAND-4

Adjustable
height from
50" -86"
(1.3-2.2m)

Adjustable
arm length
from 4" -19"
(102-483mm)

GUIDE MODULE STAND FOR MEZZANINE APPLICATION

For applications where wire source is above weld cell



Part #
WGM-3-BRKT
Side Mount Bracket

Drum -or-
Wood Reel

Wire Wizard®
Fire Resistant
Drum Covers &
Dollies Available

WWDP
Direct
Pull Kit

Conduit to wire feeder

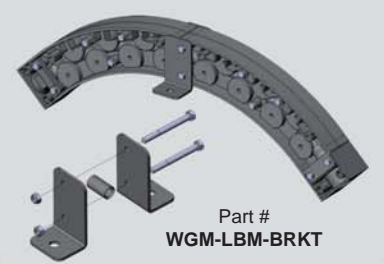
Additional
arm, part #
WGM-PFA-
STAND-
ARM

Adjustable
height from
50" -86"
(1.3-2.2m)

Adjustable
arm length
from 4" -19"
(102-483mm)

Part #
WGM-PFA-STAND

L-BRACKET MOUNTING KIT



Part #
WGM-LBM-BRKT

360° UNION ADAPTER KIT

Allows dual 360° directional adjustment



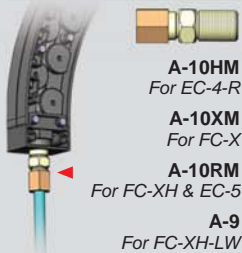
Part # **WGM-UAK**
Includes Bracket

Part # **WGM-UA**
Adapter Kit Only

THE NEW PATH OF LEAST RESISTANCE!™

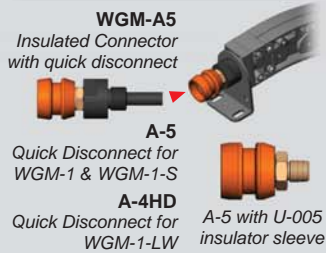
CONDUIT CONNECTORS

THREADED CONNECTORS



A-10HM
For EC-4-R
A-10XM
For FC-X
A-10RM
For FC-XH & EC-5
A-9
For FC-XH-LW

DETACHABLE QD CONNECTORS



WGM-A5
Insulated Connector
with quick disconnect
A-5
Quick Disconnect for
WGM-1 & WGM-1-S
A-4HD
Quick Disconnect for
WGM-1-LW
A-5 with U-005
insulator sleeve

INSULATED FACE MOUNT BRACKET

Allows 360° directional adjustment



Part #
WGM-2-BRKT

DRUM HOOD MOUNTING KIT



Part #
WGM-DK

GUIDE MODULE DIRECT PULL INLET



Part #
WGM-DP-LW
Includes ceramic inlet that
will not shave wire

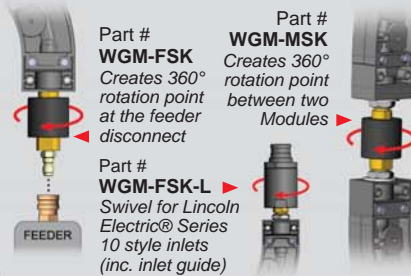
HOOD SWIVEL KIT

Allows 360°
rotation on
top of drum
cover.



Part #
WGM-HSK

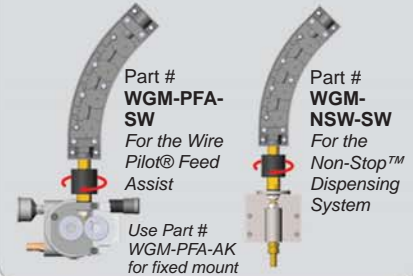
GUIDE MODULE SWIVEL KITS



Part #
WGM-FSK
Creates 360°
rotation point
at the feeder
disconnect
Part #
WGM-FSK-L
Swivel for Lincoln
Electric® Series
10 style inlets
(inc. inlet guide)

Part #
WGM-MSK
Creates 360°
rotation point
between two
Modules

ADD-ON SWIVEL KITS



Part #
WGM-PFA-SW
For the Wire
Pilot® Feed
Assist
Use Part #
WGM-PFA-AK
for fixed mount

Part #
WGM-NSW-SW
For the
Non-Stop™
Dispensing
System

45° MODULE HANGING BRACKET KIT



Part #
WGM-1-BRKT

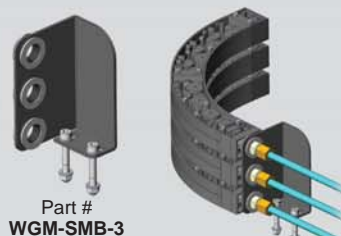
90° HANGING BRACKET KIT



Part #
WGM-1-90-BRKT
(WGM-LW-BRKT for WGM-LW-1)

STACKABLE GUIDE MODULE BRACKET

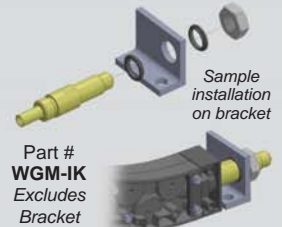
Allows mounting of up to 3 stacked modules



Part #
WGM-SMB-3

FEEDER INLET MOUNT KIT

Mounts to feeder through
bracket or panel



Part #
WGM-1K
Excludes
Bracket

ADJUSTABLE EXTENSION ARM

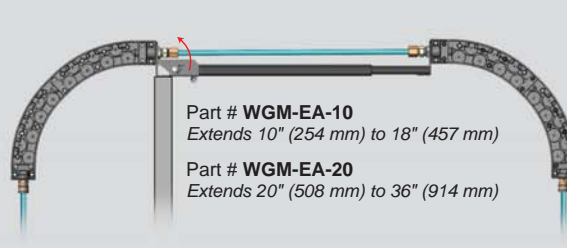
For installation at the top of the weld cell wall



Part #
WGM-CM-1
Extends 2" (51 mm) to
13" (330 mm),
adjustable height
up to 6.5" (165 mm)

PIVOTING ADJUSTABLE EXTENSION ARMS

Both arms pivot upward to allow easy wire feeding from drums & reels



Part # **WGM-EA-10**
Extends 10" (254 mm) to 18" (457 mm)
Part # **WGM-EA-20**
Extends 20" (508 mm) to 36" (914 mm)

TURN TABLE MODULE ADAPTER

Secures Modules to Wire Wizard® Turn Table



Part #
WGM-4-BRKT

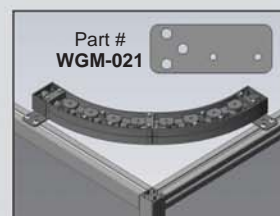
Compatible with
WGM-1, WGM-1-S &
WGM-LW-1

WELD-ON OR BOLT-ON MOUNTING BRACKET



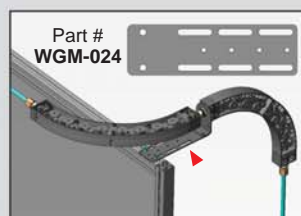
Part #
WGM-044

SUPPORT BRACKET



Part #
WGM-021

SLOTTED SUPPORT BRACKET



Part #
WGM-024

45° ANGLE SUPPORT BRACKET



Part #
WGM-025

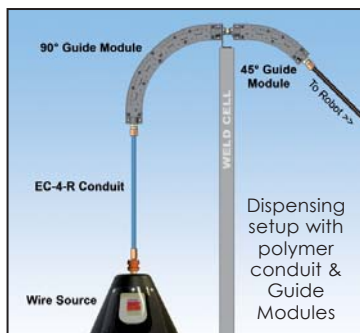
Custom mounting brackets and other accessories can be built for your specific welding application.
Please contact customer service or your ELCo Regional Sales Manager for more information.



POLYMER CONDUIT



BLUE POLYMER CONDUIT
Shown as cut length with
connector options



BLUE POLYMER CONDUIT *(see page 20 for size reference table)*

Known throughout the industry for its longevity and low friction coefficient, this durable conduit has proven to outlast metal lined products while still providing much less pull on the feed motor. It's your first choice for stationary, moving feed units and is also the recommended conduit for aluminum wire applications. EC-3-R & EC-4-R conduits feature advanced cross-linked polymer for extended wear and durability.

- Available in four sizes: EC-3-R for light wire; EC-4-R for standard wire sizes; EC-5 & EC-6 for large wire *(see wire size ref. chart on pg 20)*
- Available in pre-cut lengths with attached self-threading bayonets or in bulk 50', 100', 250' or 500' rolls (15.2m, 30.5m, 76.2m or 152.4m)
- Ideal for both ferrous & non-ferrous wire, **required for aluminum wire applications**
- Recommended for feeding from the source to the weld cell exterior
- Self threading or compression style connectors available *(see pg 21)*

CONNECTOR OPTIONS



Self-threading
"screw-on" style fitting



Compression style fitting
with ferrule



EC-CUTTER
(see page 43)

P/N	CONDUIT DIMENSIONS	CONNECTOR TYPE		REPLACE FERRULE
		SELF THREAD	COMPRESSION	
EC-3-R*	.175 ID (4.4mm) x .340 OD	A-16F-3	or A-10C-S	A-10SFE
EC-4-R*	.300 ID (7.6mm) x .460 OD	A-16F-4	or A-10C-H	A-10CFE
EC-5	.400 ID (10.2mm) x .600 OD	A-16F-5	or A-10R	A-10RFE
EC-6	.550 ID (14mm) x .750 OD	A-16F-6	or A-9/A-6	A-9FE

*EC-3-R & EC-4-R are cross-linked polymer conduits, ideal for robotic applications

BULK CONDUIT

In 50', 100', 250' or 500' rolls

P/N	P/N EXTENSION (LENGTH IN FT)
EC-3R-	50-B, 100-B, 250-B or 500-B
EC-4R-	50-B, 100-B, 250-B or 500-B
EC-5-	50-B, 100-B, 250-B or 500-B
EC-6-	50-B, 100-B, 250-B or 500-B

EC-4-R PRE-CUT CONDUIT*

A-16F-4 Bayonet Attached

P/N	LENGTH
EC4-120	120" – 10 ft (3m)
EC4-180	180" – 15 ft (4.6m)
EC4-240	240" – 20 ft (6.1m)
EC4-300	300" – 25 ft (7.6m)

EC-5 PRE-CUT CONDUIT*

A-16F-5 Bayonet Attached

P/N	LENGTH
EC5-120	120" – 10 ft (3m)
EC5-180	180" – 15 ft (4.6m)
EC5-240	240" – 20 ft (6.1m)
EC5-300	300" – 25 ft (7.6m)

EC-6 PRE-CUT CONDUIT*

A-16F-6 Bayonet Attached

P/N	LENGTH
EC6-120	120" – 10 ft (3m)
EC6-180	180" – 15 ft (4.6m)
EC6-240	240" – 20 ft (6.1m)
EC6-300	300" – 25 ft (7.6m)

*Custom pre-cut lengths of conduit are available, contact customer service for ordering information



QUALITY TESTED FOR MAXIMUM DURABILITY!

We tested the flexural strength of our EC-3-R & EC-4-R cross-linked polymer conduit against a leading competitor by continuously flexing it back & forth until it finally cracked. **Our conduit survived this rigorous test over 70 TIMES longer than the leading competitor. The results speak for themselves!**

Flexural Strength Testing Device



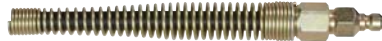
EXTRA FLEXIBLE CONDUIT *(see page 20 for size reference table)*

Our most flexible conduit displays exceptional wear characteristics and very low friction coefficient. Perfect for robotics, gantry, linear, or any application where a tighter radius is required. Available in pre-cut lengths, 100 ft (30.5m) bulk coils, or by the foot. All Extra Flexible Conduit now features a spatter-resistant outer jacket, low friction smooth-feed wire coating and patent pending elliptical wire spring liners.

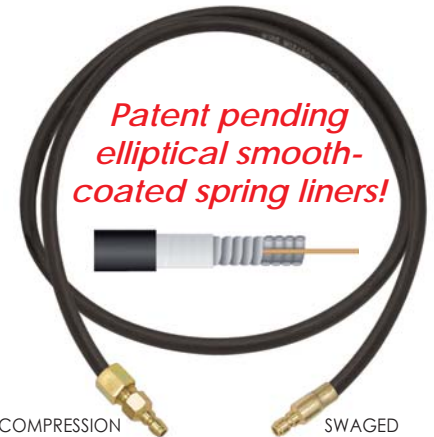
- **Available in four sizes:** FC-X - Standard; FC-XH - Heavy Duty; FC-XH-LW - For lg. diameter wire; FC-X-SW - For sm. diameter wire
- Available in 1 to 100 ft (305mm to 30.5m) continuous length coil
- FC-X and FC-XH are available in cut lengths with attached bayonets on each end (swaged style)
- Compression or swaged style connectors available *(see page 21)*



POLYMER STRAIN RELIEF OPTION (-ST)
Recommended for light mobility applications



STEEL STRAIN RELIEF OPTION (SEE PAGE 19)
Recommended for high mobility applications



COMPRESSION SWAGED

EXTRA FLEXIBLE CONDUIT
Shown as cut length with
connector options

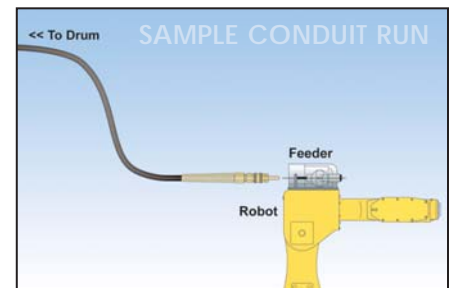


FC-X CONDUIT (EXPLODED VIEW)

P/N	DIMENSIONS	CONNECTOR / FERRULE	
FC-X-SW	.090 ID (2.3mm) x .353 OD (9mm)	A-10C-S	A-10SFE
FC-X	.241 ID (6.1mm) x .500 OD (12.7mm)	A-10C-X	A-10XFE
FC-XH	.291 ID (7.4mm) x .610 OD (15.5mm)	A-10R	A-10RFE
FC-XH-LW	.390 ID (10mm) x .750 OD (19mm)	A-9/A-6HD	A-9-FE

Conduit Color Coding - Pre-cut lengths are color-coded as follows:

10 FT (3m) RED	15 FT (4.6m) WHITE	20 FT (6m) YELLOW	25 FT (7.6m) BLUE
----------------	--------------------	-------------------	-------------------



FC-XH Conduit going to the robot

FC-X PRE-CUT CONDUIT* with A-11X Swaged Bayonet

P/N	LENGTH
FCXS-120	120" - 10 ft (3m)
FCXS-180	180" - 15 ft (4.6m)
FCXS-240	240" - 20 ft (6.1m)
FCXS-300	300" - 25 ft (7.6m)

FC-XH PRE-CUT CONDUIT* with A-11XH Swaged Bayonet

P/N	LENGTH
FCXHS-120	120" - 10 ft (3m)
FCXHS-180	180" - 15 ft (4.6m)
FCXHS-240	240" - 20 ft (6.1m)
FCXHS-300	300" - 25 ft (7.6m)

BULK CONDUIT*

sold in 100 ft (30.5m) sections

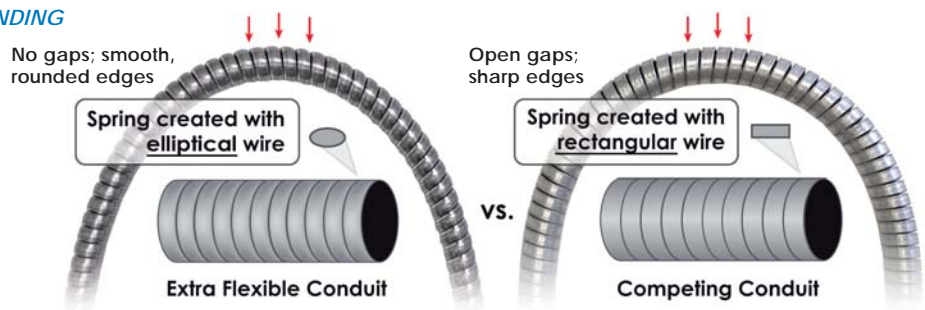
P/N	LENGTH
FC-X-SW-B	100 ft (30.5m)
FC-X-B	100 ft (30.5m)
FC-XH-B	100 ft (30.5m)
FC-XH-LW-B	100 ft (30.5m)

Add "ST" to end of part # for polymer strain relief, "SR" for steel strain relief
Delete "S" from part number for compression connections

* Custom pre-cut lengths available,
contact customer service for details

ELLIPTICAL WIRE LINERS *PATENT PENDING*

All ELCo spring liners featured in our Extra Flexible Conduit and Torch Liners are built with a unique elliptical wire to help **eliminate wire shaving** and to **reduce drag coefficient**. To the right are images displaying the difference between ELCo & a typical spring liner.





CONDUIT SIZE REFERENCE TABLE

RECOMMENDED CONDUIT SIZE REFERENCE TABLE

The table below shows the recommended conduit based on the wire type, size, length of run and application. When choosing the proper conduit, please keep in mind these **seven variables of wire dispensing**:

- ▶ **Type of Wire:** Such as steel, aluminum, cored steel, or silicone bronze
- ▶ **Wire Diameter**
- ▶ **Length of Run**
- ▶ **Wire Cast:** The curvature of one strand of welding wire, measured as the diameter of the circle formed by a strand laying on a flat surface
- ▶ **Wire Helix:** The distance one end of a single wire strand lying on a flat surface rises off that surface (also known as the wire "pitch")
- ▶ **Application:** Robotic or semi-automatic, number of turns
- ▶ **Drawing Compounds**



DISTANCE & RECOMMENDED CONDUIT











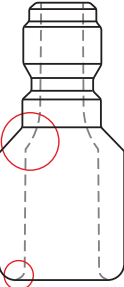



WIRE TYPE	SIZE (INCHES/MM)	1-10 FT (1-3 M)		11-20 FT (3-6 M)		OVER 20 FT (6 M)	
		STATIONARY	ROBOTIC	STATIONARY	ROBOTIC	STATIONARY	ROBOTIC
Steel	.025"/0.6 mm	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R
Steel	.030"/0.8 mm	EC-3-R	FC-X-SW/EC-3-R	EC-3-R	FC-X-SW/EC-3-R	EC-4-R	FC-X/EC-4-R
Steel	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.040"/1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Steel	.052"/1.3 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-5	FC-XH
Steel	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	5/64"/2 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	3/32"/2.4 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Steel	7/64"/2.5 mm	EC-5	FC-XH	EC-5	FC-XH	EC-6	FC-XH-LW
Steel	1/8"/3.2 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Steel	5/32"/4 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Aluminum	.025"/0.6 mm	EC-3-R*	EC-3-R	EC-3-R	EC-3-R	EC-3-R	EC-3-R
Aluminum	.030"/0.8 mm	EC-3-R*	EC-3-R	EC-3-R	EC-3-R	EC-3-R	EC-3-R
Aluminum	.035"/0.9 mm	EC-3-R*	EC-3-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	3/64"/1.2 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	1/16"/1.6 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Aluminum	3/32"/2.4 mm	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R	EC-4-R
Cored - Steel	.035"/0.9 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	.045"/1.1 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	.052"/1.3 mm	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X	EC-4-R/FC-X
Cored - Steel	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	5/64"/2 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	3/32"/2.4 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Cored - Steel	1/8"/3.2 mm	EC-6	FC-XH-LW	EC-6	FC-XH-LW	EC-6	FC-XH-LW
Stainless	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	.052"/1.3 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Stainless	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH
Silicon Bronze	.030"/0.8 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	.035"/0.9 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	.045"/1.1 mm	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R	EC-4-R	FC-X/EC-4-R
Silicon Bronze	1/16"/1.6 mm	EC-5	FC-XH	EC-5	FC-XH	EC-5	FC-XH

**Ideal size for pushing or pulling aluminum wire*

E-Z FEED™ CONNECTORS













CONDUIT CONNECTORS

Polymer Conduit Connectors

EC-3-R	EC-4-R	EC-5	EC-6
			
A-16F-3	A-16F-4	A-16F-5	A-16F-6
			
A-10C-S	A-10C-H	A-10R	A-6 (or A-6HD*) & A-9
			<i>*Use A-6HD if connecting to an HD style disconnect, use A-6 for all other disconnects</i> 
	A-10HP	A-10RP	
			
A-10C-H-SR	A-10R-SR		
			
A-10C-H-SRL			

All E-Z Feed™ connectors feature rounded shoulders for smooth wire feeding

Extra Flexible Conduit Connectors

FC-X	FC-XH	FC-XH-LW	FC-X-SW
			
A-10C-X	A-10R	A-6HD (or A-6*) & A-9	A-10C-S
			
A-10XP	A-10RP	A-11XH-LW	
			
A-10C-X-SR	A-10R-SR		
			
A-11X	A-11XH		
			
A-10C-X-SRL			

Polymer Strain Relief

Steel Spring Strain Reliefs, 10.5" & 21.5"

Polymer Conduit Connectors

Part No.	EC-3-R Connectors Connector
A-16F-3	Self Threading (1/8" NPT-F)
A-10C-S	Compression (Ferrule)
Part No.	EC-4-R Connectors Connector
A-16F-4	Self Threading (1/4" NPT-F)
A-10C-H	Compression (Ferrule)
A-10HP*	Compression (1/4" NPT-F)
A-12A	Aluminum Compression
A-10C-H-SR	Strain Relief Connector - 10.5" (267mm)
A-10C-H-SRL	Strain Relief Connector - 21.5" (546mm)
Part No.	EC-5 Connectors Connector
A-16F-5	Self Threading (3/8" NPT-F)
A-10R	Compression (Ferrule)
A-10RP*	Compression (1/4" NPT-F)
A-10R-SR	Strain Relief Connector
A-10R-QD	Connector w/Disconnect
A-10R-QD-SR	Strain Relief w/Disconnect
Part No.	EC-6 Connectors Connector
A-16F-6	Self Threading (1/2" NPT-F)
A-6 (or A-6HD) & A-9	Combination Compression

Extra Flexible Conduit Connectors

Part No.	FC-X Connectors Connector
A-10C-X	Compression (Ferrule)
A-10XP*	Compression (1/4" NPT-F)
A-10C-X-SR	Strain Relief Connector - 10.5" (267mm)
A-10C-X-SRL	Strain Relief Connector - 21.5" (546mm)
A-11X	Swaged Connector
Part No.	FC-XH Connectors Connector
A-10R	Compression (Ferrule)
A-10RP*	Compression (1/4" NPT-F)
A-10R-SR	Strain Relief Connector
A-11XH	Swaged Connector
A-10R-QD	Connector w/Disconnect
A-10R-QD-SR	Strain Relief w/Disconnect
Part No.	FC-XH-LW Connectors Connector
A-6HD (or A-6)/A-9	Combination Compression
A-11XH-LW	Swaged Connector
Part No.	FC-X-SW Connectors Connector
A-10C-S	Compression (Ferrule)

* For A-10HP, A-10RP & A-10XP use A-4 quick disconnect.
Legend: NPT-National Pipe Threads, M-Male, F-Female



See page 22 for replacement ferrules for compression style connectors.



CONDUIT CONNECTORS & ACCESSORIES

RETRACTABLE CONDUIT/CABLE BALANCERS & HANGERS

- ▶ Balancer provides easy method of hanging conduit & cables
- ▶ Conduit Hanger prevents excess droopage
- ▶ Prevents cables from hanging in areas prone to damage
- ▶ Hangers feature velcro straps to secure cables and conduit

NEW



HEAVY DUTY BALANCERS WITH SHOCK STOP
Prevents cable damage often caused by overtensioning

CONDUIT BALANCERS

Several models available, light duty (left) and heavy duty (right)



CONDUIT HANGER

3 sizes available



PART NO.	DESCRIPTION
RCH-S	Conduit Balancer - Load: 1-3½ lbs (0.5-1.6 kg)
RCH-H	Conduit Balancer - Load: 2-4½ lbs (1-2 kg)
RCH-4-6	Conduit Balancer - Load: 4-6 lbs (1.8-2.7 kg)
RCH-5-13	Conduit Balancer - Load: 5-13 lbs (2.3-6 kg)
RCH-11-19	Conduit Balancer - Load: 11-19 lbs (5-8.6 kg)
RCH-3-7-SH	Conduit Balancer with Shock Stop - Load: 3-7 lbs (1.4-3.2 kg)
RCH-5-10-SH	Conduit Balancer with Shock Stop - Load: 5-10 lbs (2.3-4.5 kg)
RCH-8-12-SH	Conduit Balancer with Shock Stop - Load: 8-12 lbs (3.6-5.4 kg)
RCH-10-15-SH	Conduit Balancer with Shock Stop - Load: 10-15 lbs (4.5-6.8 kg)
RCH-16-23-SH	Conduit Balancer with Shock Stop - Load: 16-23 lbs (7.3-10.4 kg)
RCH-22-27-SH	Conduit Balancer with Shock Stop - Load: 22-27 lbs (10-12.2 kg)
RCH-SH	Shock Stop Kit (only compatible with -SH models)
CHH-22	22" (559mm) Conduit Hanger w/four Retaining Straps
CHH-16	16" (406mm) Conduit Hanger w/four Retaining Straps
CHH-10	10" (254mm) Conduit Hanger w/two Retaining Straps

REPLACEMENT FERRULES

Choice of sizes for the right compression fit for the application



A-9-FE



A-10RFE



A-10CFE



A-10XFE



A-10SFE

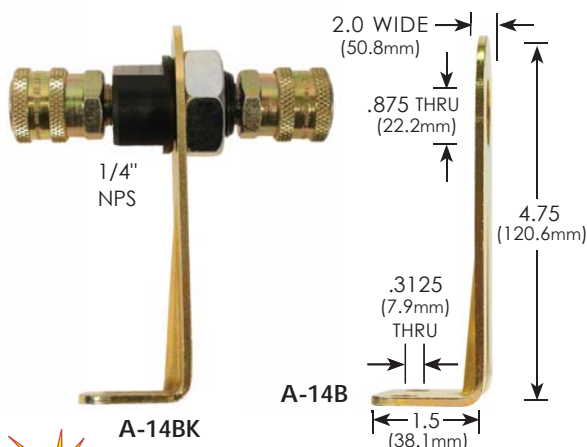
FERRULES

P/N	CONNECTORS	
A-9-FE	A-9	
A-10RFE	A-10R	A-10RP
A-10CFE	A-10C-H	A-10HP
A-10XFE	A-10C-X	A-10XP
A-10SFE	A-10C-S	

BULKHEAD CONNECTORS

A-14BK Kit

Includes **A-14** bulkhead, **A-14B** bracket and **A-4-ST** quick disconnects



A-14 BULKHEAD

A-14 KIT

Kit includes **A-14** bulkhead, and **A-4-ST** quick disconnects



A-14KIT

A-14CM

Bulkhead Cage Mount Kit



CONDUIT & CABLE SLEEVES

Constructed from Kevlar® with a spatter-resistant aluminized or silicon coating, Wire Wizard® conduit & cable sleeves provide the maximum degree of protection inside the weld cell.

- ▶ Protects and secures conduit, control cables, cooling lines, gas lines, hydraulic hoses and other lines connected to robots
- ▶ Three I.D. sizes available in 1, 2, 3 & 4 ft (0.3, 0.6, 0.9 & 1.4m) lengths
- ▶ Use **aluminized sleeves** for high heat applications
- ▶ Velcro ends can be chain linked together
- ▶ Sleeve ends accept nylon tie straps
- ▶ Zipper + Velcro enclosure



CONDUIT & CABLE SLEEVES*

P/N	ITEM	LENGTH
KCS-2-12	2" Sleeve (51mm) I.D.	1 ft (305mm)
KCS-2-24	2" Sleeve (51mm) I.D.	2 ft (610mm)
KCS-2-36	2" Sleeve (51mm) I.D.	3 ft (914mm)
KCS-2-48	2" Sleeve (51mm) I.D.	4 ft (1.2m)
KCS-3-12	3" Sleeve (76mm) I.D.	1 ft (305mm)
KCS-3-24	3" Sleeve (76mm) I.D.	2 ft (610mm)
KCS-3-36	3" Sleeve (76mm) I.D.	3 ft (914mm)
KCS-3-48	3" Sleeve (76mm) I.D.	4 ft (1.2m)
KCS-4-12	4" Sleeve (102mm) I.D.	1 ft (305mm)
KCS-4-24	4" Sleeve (102mm) I.D.	2 ft (610mm)
KCS-4-36	4" Sleeve (102mm) I.D.	3 ft (914mm)
KCS-4-48	4" Sleeve (102mm) I.D.	4 ft (1.2m)



Aluminized Sleeve (add -A to Part #)



Silicon Coated Sleeve (add -S to Part #)



Open sleeve showing velcro & zipper enclosure

**Add -A to the part number for aluminized coating, add -S for silicon coating*

CABLE ORGANIZERS FOR FANUC® ROBOTS

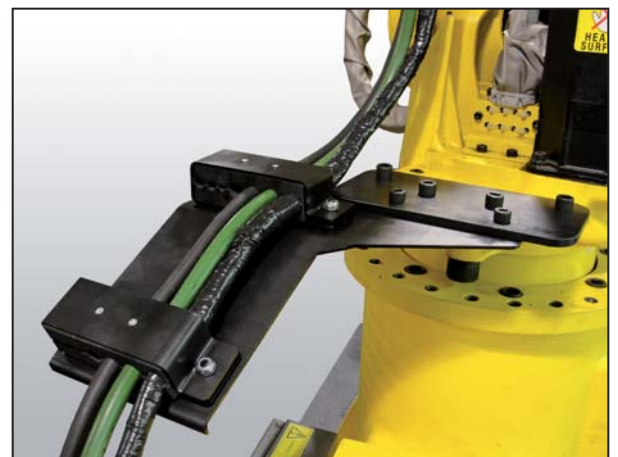
Model GMR-FCC-IC

Compatible with Fanuc ARC Mate™ 100/120iC Series Robots*

Keep your cables organized and tangle-free with Wire Wizard® Robotic Cable Organizers for Fanuc Robots.

- ▶ Secures conduit, control cables, cooling lines, gas lines, hydraulic hoses and other lines connected to robots
- ▶ Prevents kinks in hoses that cause unnecessary downtime
- ▶ Rubber clamps provide cushioning for cables, reducing stress that can cause cables to break

**Please call or see website to confirm bolt pattern for other robots*





IF IT TOUCHES THE WIRE, TH

From the wire source to the weld cell, if it touches the wire the Wizard's got you covered!

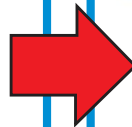
WIRE SOURCE



FIBER DRUM & BOX
DISPENSING EQUIPMENT
PAGES 4-10

MECHANICAL TURN
TABLE & ACCESSORIES
PAGE 8

DRUM HANDLING
EQUIPMENT
PAGES 39-41



WIRE DISPENSING SYSTEM

CONDUIT CONNECTORS PAGE 21



SELF THREADING



COMPRESSION



SWAGED (ON PRE-CUT)



COMPRESSION

CROSSLINKED POLYMER & PAGES

EC-3-R CROSSLINKED POLYMER

EC-4-R CROSSLINKED POLYMER

EC-5 POLYMER

EC-6 POLYMER

FC-X-SW EXTRA FLEXIBLE

FC-X EXTRA FLEXIBLE

FC-XH EXTRA FLEXIBLE

FC-XH-LW EXTRA FLEXIBLE



WIRE WIZARD® GUIDE
MODULE SYSTEM
PAGES 14-17

WIRE PILOT® PNEUMATIC
WIRE FEED ASSIST
PAGES 31-33



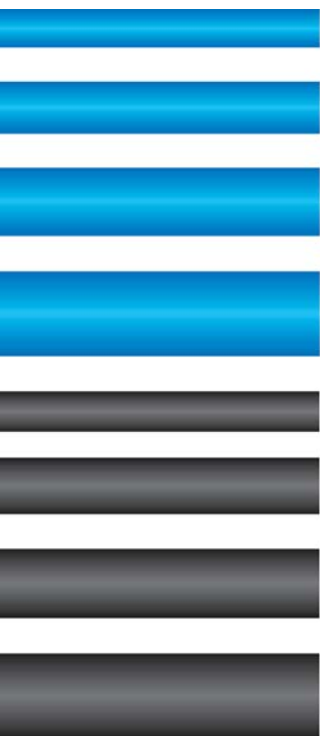
WOOD & PLASTIC REEL
DISPENSING EQUIPMENT
PAGES 12-13



STEM PACK & REEL
MOTORIZED DISPENSING
PAGE 13

ELCo Enterprises can design & build a custom wire dispensing system for your unique welding

EXTRA FLEXIBLE CONDUIT PAGES 18-19



CONDUIT CONNECTORS PAGE 21



SELF THREADING



COMPRESSION



SWAGED (ON PRE-CUT)



COMPRESSION



WIRE STRAIGHTENERS PAGE 11



CONDUIT & CABLE ACCESSORIES PAGES 22-23



BULKHEAD
CONNECTOR
KIT



WELD CELL & PERIPHERALS

STRAIN RELIEF CONNECTORS PAGE 21



STEEL HEAVY DUTY STRAIN RELIEF



POLYMER LIGHT DUTY STRAIN RELIEF



TORCH LINERS PAGE 30



BLUE MAGIC® & BLUE CHILL™ ANTI-SPATTER SOLUTION PAGES 34-35



INERT GAS SAVER

GAS FLOW SENSOR



GAS FLOW OPTIMIZATION PRODUCTS PAGE 42

WIRE FEEDER INLET GUIDES PAGES 28-29



TORCH WIZARD™ NOZZLE CLEANING STATIONS PAGES 36-38



WIRE FEED
SENSOR

WIRE DRAW
GAUGE

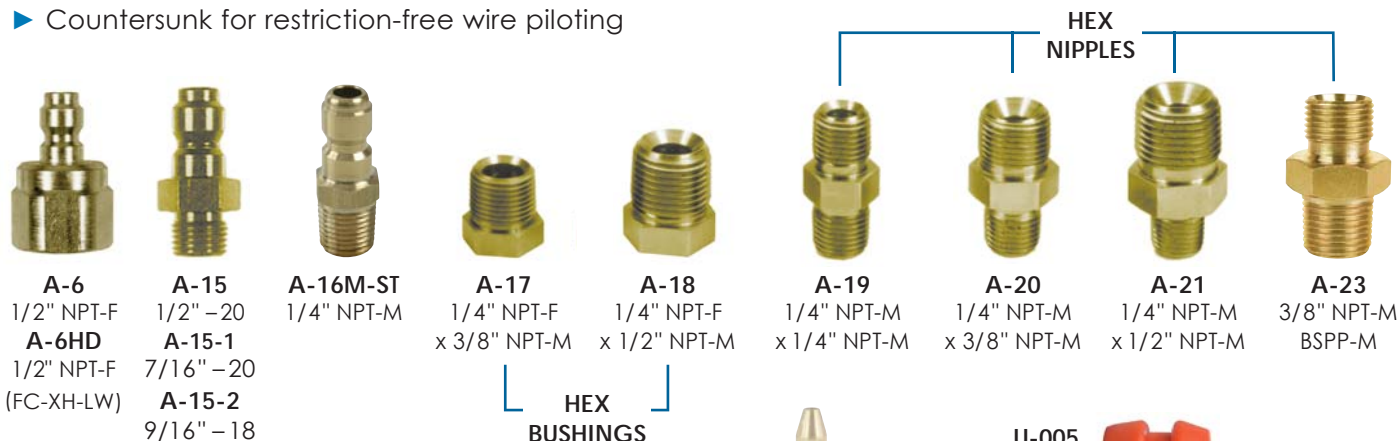


TOOLS & MAINTENANCE EQUIPMENT PAGES 43-44

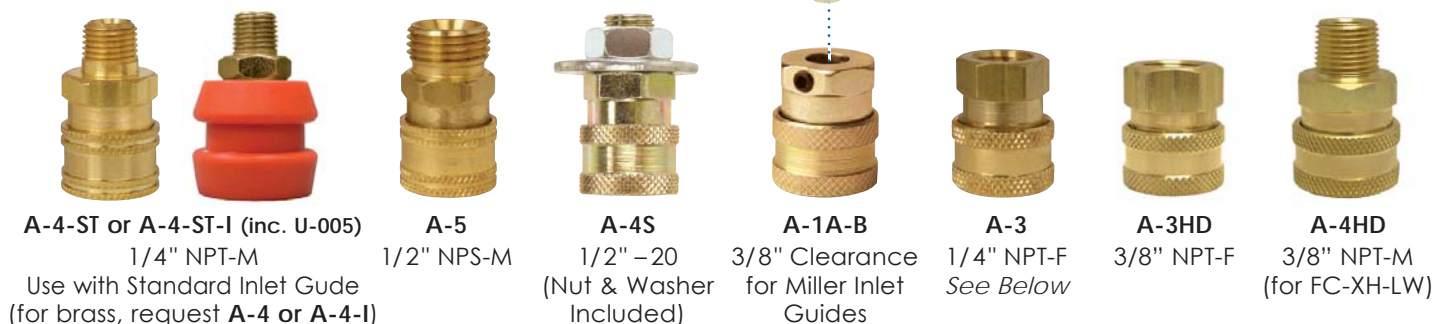
E-Z FEED™ CONNECTORS

ADAPTER FITTINGS

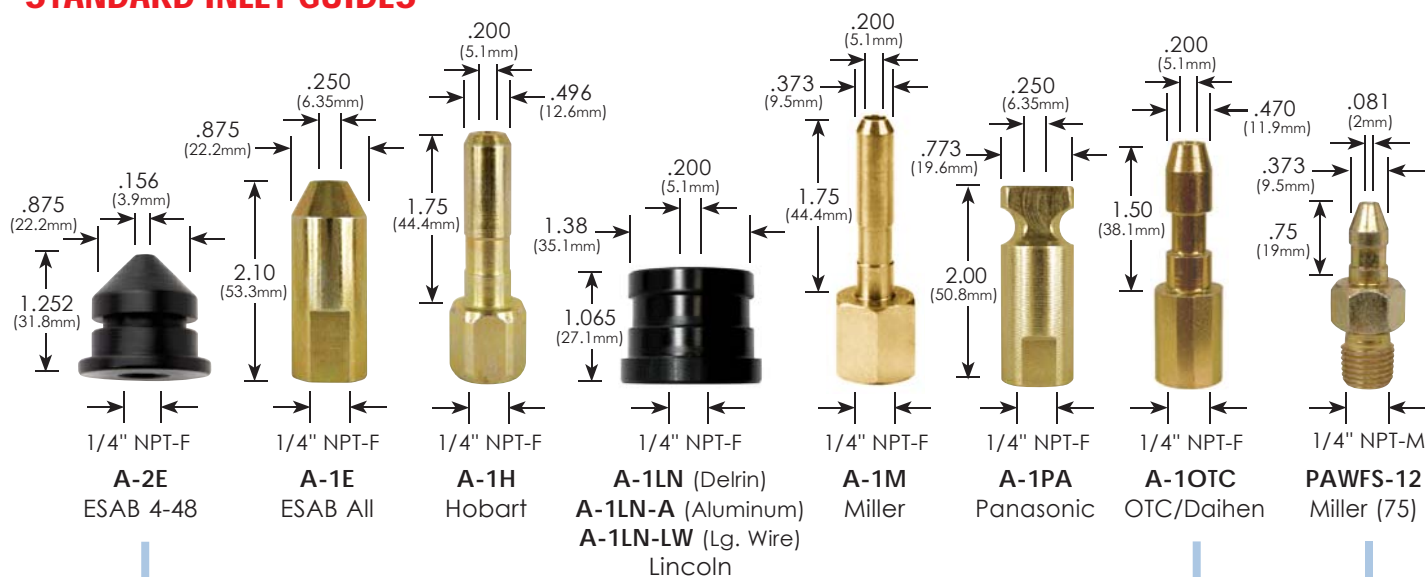
- ▶ NPT male (M) and female (F) pipe threads for optimum sealing
- ▶ Countersunk for restriction-free wire piloting



QUICK DISCONNECTS



STANDARD INLET GUIDES



Use **A-4** (1/4" NPT-M) with fittings above for quick disconnect capability or for steel use **A-4-ST** quick disconnect

A-3 1/4" NPT-F



ADAPTERS FOR INLET GUIDES

E-Z FEED™ CONNECTORS

Configurations shown are just for demonstration purposes only. Please refer to the **Cross-Reference Table** on page 29 for a complete parts listing for your particular application.

A-1A-XR-KIT

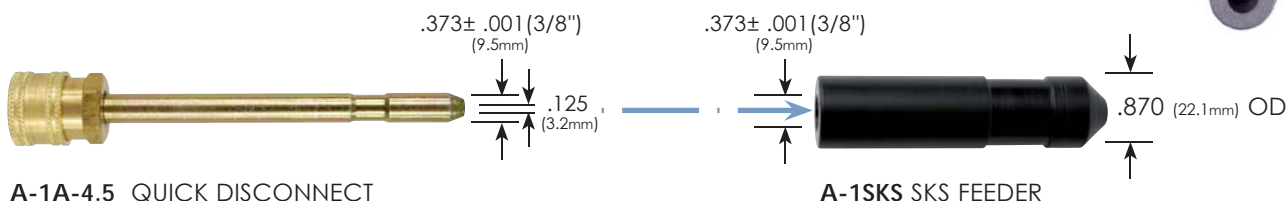
MILLER XR
FEEDER INLET KIT
Includes A-12A
and A-1A-XR Inlet
Guide
For aluminum wire

A-12A CONNECTOR

Feeder Housing

Conduit & conduit fitting sold separately

A-1A-XR
MILLER XR INLET GUIDE



A-1A-4.5 QUICK DISCONNECT

A-1SKS SKS FEEDER

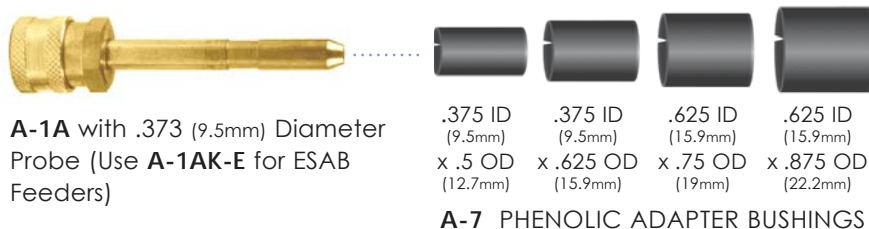


A-1AH330 PROBE WITH QUICK DISCONNECT

A-1MOT MOTOMAN FEEDER

UNIVERSAL INLET KIT Model A-1AK

- Five piece kit includes **A-1A** probe and four **A-7** phenolic adapter bushings for stable and durable performance
- Will support the use of a variety of wire feeders



A-1A with .373 (9.5mm) Diameter
Probe (Use **A-1AK-E** for ESAB
Feeders)

A-7 PHENOLIC ADAPTER BUSHINGS

LINCOLN ELECTRIC TWIN ARC FEEDER INLET Model A-2NA-5

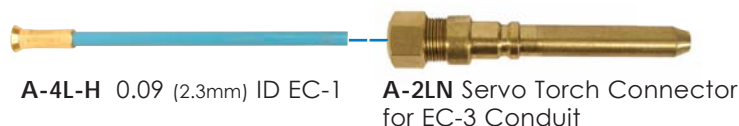
- For use with Lincoln Twin Arc Feeder (disconnects sold separately)



End View

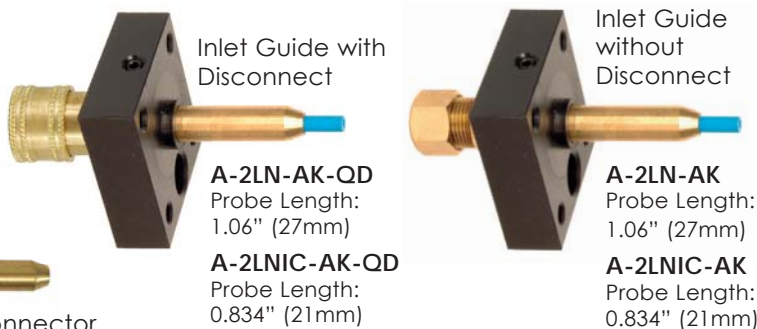
LINCOLN SERVO INLET GUIDES

- Designed for use with Lincoln Servo Torch
- Ideal for all **aluminum & steel** applications
- Inlet guide connects to **Blue Polymer** or **Extra Flexible** conduit



A-4L-H 0.09 (2.3mm) ID EC-1

A-2LN Servo Torch Connector
for EC-3 Conduit



Inlet Guide with
Disconnect

A-2LN-AK-QD
Probe Length:
1.06" (27mm)

A-2LN-AK
Probe Length:
1.06" (27mm)

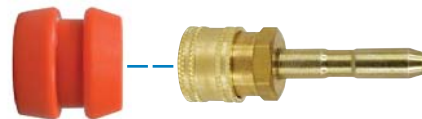
Inlet Guide
without
Disconnect

A-2LN-AK-QD
Probe Length:
1.06" (27mm)

A-2LN-AK
Probe Length:
1.06" (27mm)

INLET GUIDES WITH QUICK DISCONNECTS

- ▶ For steel weld wire feeder and straightener applications
- ▶ Provides trouble-free interface of connections
- ▶ Quick disconnects feature eight retainer bearings



U-005 Optional Quick Disconnect Insulator



A-1A

.373(9.5mm) Probe



A-1A-C

.373(9.5mm) Probe
Miller Wire Feeder



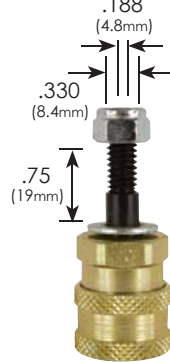
A-1A-D

.373(9.5mm) Probe
Miller Wire Feeder (Sm. Wire)



A-1A-4.5

.373(9.5mm) Probe
Miller Series 74 Wire Feeder



A-1NA-5

Lincoln NA-3
& NA-5 Feeder



A-1LN-23A

Lincoln Wire Feeder



A-1LN-23B

Lincoln Wire Feeder



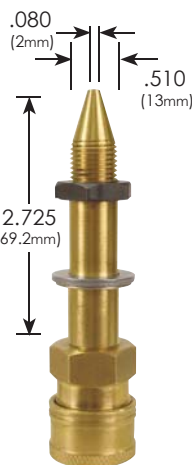
A-2SKS

SKS



A-1FRO

Fronius Feeder



A-2FRO

Fronius Feeder



A-1FRO-B

Fronius Feeder



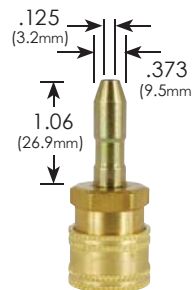
A-1MOT-HP

Motoman
Hyper Feeder



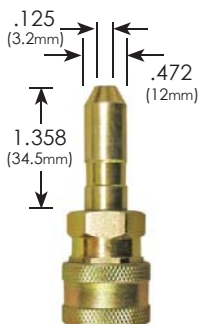
A-1MOT-AU

Motoman
Wire Feeder



A-1B-C

Wire Pilot™
Inlet Guide
Use **A-1B-C-HD**
for large wire



A-1CL

Cloos



A-1OTC-FX

OTC

CONNECTOR LINERS

- ▶ Designed to line steel connectors when using aluminum and other non-ferrous metal wires
- ▶ Non-metallic to prevent abrasion and contamination



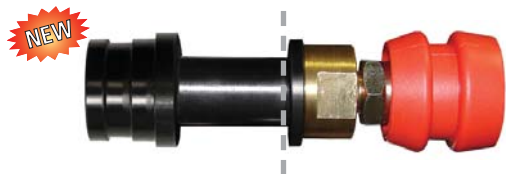
A-4L-H 0.09 (2.3mm) ID EC-1

FEEDER INLET CROSS-REFERENCE CHART

FEEDER MANUFACTURER	FEEDER TYPE	WIRE WIZARD™ INLET GUIDE P/N	FEEDER MANUFACTURER	FEEDER TYPE	WIRE WIZARD™ INLET GUIDE P/N
CEA S.p.A.	ALL	A-1AK	Miller	Most Models	A-1A-C, A-1M & A-4, or A-1A
Cebora S.p.A.	ALL	A-4S		22A and 24A	A-1AK
CK Systematics	MP175 and S4165	A-4S		Auto Axxess	A-1A-C
Cloos	Most Models	A-1CL		Series 74 and R115	A-1A-4.5
Cybo Robotics	Most Models	A-4S		Series 75	PAWFS-12 & A-3
ESAB	ALL (except 4-48)	A-1AK-E		RAD 400	A-1LN-S & A-3
	4-48	A-2E & A-4		XR Series (for alum. wire)	A-1A-XR-KIT
	Aristo 30 Series	A-4S	MK Products	Cobramatic	A-1AK
Fanuc	Servo Torch	A-3QDF-6 & A-23	Motoman	Female Inlets	A-1AH330 & A-1MOT
Fronius	Feeder without Set Screw	A-1FRO-B		Male Threaded Inlets	A-3QDF-3
	Feeder with Set Screw	A-1FRO		Hyper Feeder	A-1MOT-HP
	Feeder with Stripped Set Screw	A-2FRO	OTC/ DAIHEN	Male Threaded Inlet 7/16"-20	A-3QDF-2
Hobart	Series 27	A-1H & A-4		Male Threaded Inlet 9/16"-18	A-3QDF-4
		A-1A, A-1A-4.5		FX Style	A-1OTC-FX
	Models with 3/4"-16 Thread	A-1A & A-22		D Series	A-3QDF-4
		A-1AH330 & A-1MOT		AF4-001	A-3QDF-2
Kobelco	Male Threaded Inlet 1/2"-20	A-3QDF-3		OTC	A-1OTC & A-4
Lincoln	4R100	A-1LN & A-4	Panasonic	Female Inlet: .77 OD (19.6mm)	A-1PA & A-4
Electric	4R220	A-1LN & A-4		Female Inlet: .57 OD (14.5mm)	A-2PA & A-3QDF-4
	PF Series	A-1LN & A-4		Male Threaded Inlet	A-3QD-4
	LN-7, LN-9, and LN-25	A-1A	Pow Con	Most Models	A-1AK
	LN-8	A-1H & A-4	SKS	Most Models	A-2SKS
	NA-3 and NA-5	A-1NA-5		Older Models	A-1SKS & A-1A-4.5
	Synergic 7	A-1B-C2	Thermal Arc	17A	A-1AH330 & A-1MOT
	LF-72	A-1LN & A-4			
	LF-74	A-1LN-EK			
	Series 10 (10M, DH-10, LN-10)	A-1LN & A-4			
	Servo Torch	A-2LN-AK			

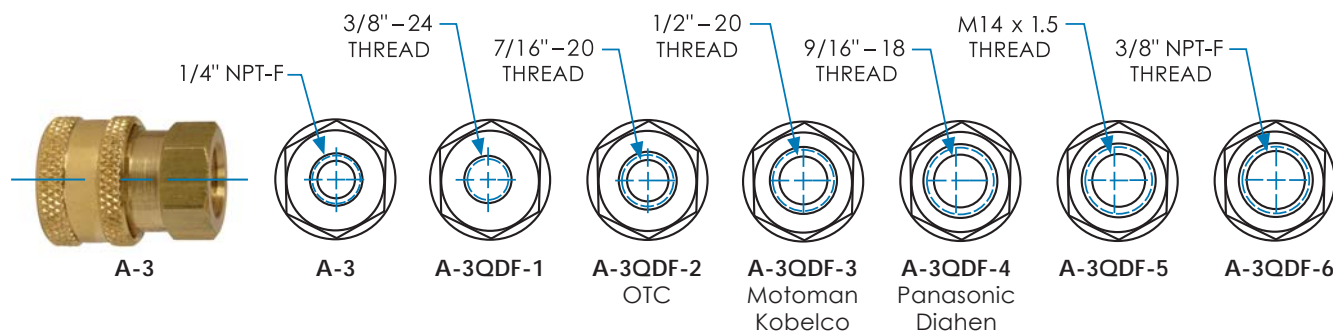
This table is intended for the use of **Wire Wizard™** customers and is provided from relevant information supplied by feeder manufacturers or their distributors who, at their discretion, reserve the right to alter product specifications or features without notice. Every effort has been made to ensure the information presented is accurate and current. If you should require further assistance please contact ELCo Enterprises, Inc.

LINCOLN ELECTRIC LF-74 FEEDER INLET GUIDE EXTENSION KIT Model A-1LN-EK



- ▶ Extends connection to the disconnect at the feeder
- ▶ Kit includes A-1LN inlet guide, extension adapter and quick disconnect with insulator

FEMALE THREADED QUICK DISCONNECT REFERENCE FOR INLET GUIDES





TORCH LINERS

Long Lasting Torch Liners that Will Not Shave Wire!

WIRE WIZARD® TORCH LINERS

PATENT PENDING ELLIPTICAL WIRE REDUCES FRICTION & SHAVING!

Wire Wizard® Torch Liners are specially designed to provide superior feedability with a low drag coefficient. The spring liners are made with a unique elliptical wire and our heat-resistant polymer liners are designed to withstand a constant temperature of over 400° F (204° C).

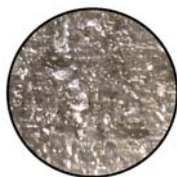
- ▶ Both Spring and High Temperature Polymer Liners are available for all major torch manufacturers
- ▶ Available in 5, 10, 15, 20 & 25 ft (1.5, 3, 4.6, 6.1 & 7.6 m) lengths
- ▶ Please contact customer service when ordering to obtain the correct part number and collet for your MIG gun



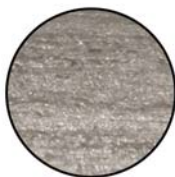
Steel Spring Liner (top) & High Temp Polymer Liner

TORCH LINER SIZES AVAILABLE

STYLE	O.D. DIMENSIONS	I.D. DIMENSIONS
Steel Elliptical Wire Torch Liner	.184" (4.7mm) O.D.	.065" (1.7mm) I.D.
Steel Elliptical Wire Torch Liner	.184" (4.7mm) O.D.	.080" (2mm) I.D.
Steel Elliptical Wire Torch Liner	.184" (4.7mm) O.D.	.100" (2.5mm) I.D.
Steel Elliptical Wire Torch Liner	.184" (4.7mm) O.D.	.118" (4.8mm) I.D.
Torch Jump Liner (bronze) w/union, 8-1/4" lgth.	.184" (4.7mm) O.D.	.082" (2.1mm) I.D.
Torch Jump Liner (bronze) w/union, 8-1/4" lgth.	.184" (4.7mm) O.D.	.102" (2.6mm) I.D.
High Temp Polymer Torch Liner	.187" (4.7mm) O.D.	.060" (1.5mm) I.D.
High Temp Polymer Torch Liner	.187" (4.7mm) O.D.	.090" (2.3mm) I.D.
High Temp Polymer Torch Liner	.187" (4.7mm) O.D.	.125" (3.2mm) I.D.



Galvaneel coated wire



Wire Wizard® coated wire

STEEL LINER WIRE COMPARISON

Smooth wire liner coating used on conduit & torch liners (right) in comparison to typical galvaneel coating (left) – magnified 70x.

Wire Friction Test with Polymer Torch Liners: 12 feet (3.7m) of liner was wrapped in a loop, .045 aluminum wire was fed through the liner at a rate of 260"/min. for 90 seconds. The results (in pounds of force required to push the wire):

ELCo Liner	1.22 lbs avg.	0.46 lbs minimum	2.08 lbs high
Competitor	8.81 lbs avg.	6.30 lbs minimum	12.10 lbs high



TAKE THE WIZARD'S CHALLENGE TO SEE HOW WIRE WIZARD® LINERS CAN MAKE A DIFFERENCE IN YOUR APPLICATION!

FREE TRIAL LINERS AVAILABLE, CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

WIRE PILOT® PNEUMATIC WIRE FEED ASSIST

An economical way to help your wire feeder move wire through the conduit in applications where the use of large diameter wire or long conduit runs is needed. Works with ferrous and non-ferrous wire. Using only compressed air, this unit can relieve 4 pounds or more of pulling force from the feed motor. Adjustable torque setting prevents "bird nesting." Replacement drive rolls available. *Patented design.*

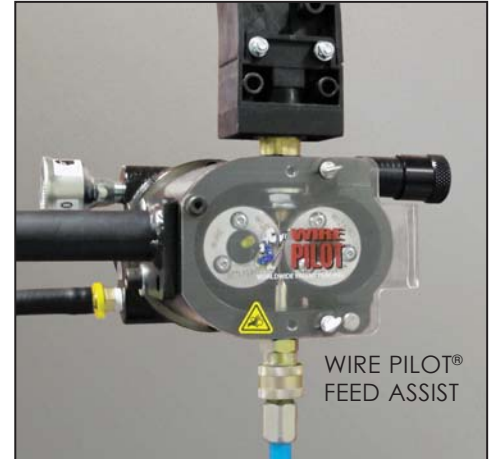
- ▶ **Eliminates drag coefficient inside the conduit**
- ▶ Provides "Push-Pull" system to get wire from source to the feeder
- ▶ Extends conduit life & increases arc-on time
- ▶ Enables longer conduit runs (150 ft/46m+), enabling centrally located wire packages as well as allowing the use of bulk wire in many applications that would normally require small spools
- ▶ Prevents burn backs caused by wire feeding problems
- ▶ Solves many common feeding issues with large diameter wire

WIRE PILOT® FEED ASSIST & ACCESSORIES (ALSO SEE PAGES 32-33)

ITEM	PART NO.
Wire Pilot® for small diameter wire (.035-.045, inc. aluminum)	PFA-SM
Wire Pilot® for large diameter wire (.052 & larger)	PFA-LM
Drum Adapter for Wire Pilot® Feed Assist	PFA-DA
FRL Mounting Bracket (mounts directly onto Feed Assist)	PFA-DA-05
Turn Table Adapter Kit for Wire Pilot® Feed Assist	PFA-WWTT
Adjustable Wire Pilot® Feed Assist Stand for Wood Reels	PFA-AS
Inlet Adapter for PFA-AS Stand (included with stand)	PFA-AS-I
Adjustable Wire Pilot® Feed Assist Stand for Drums or Spools	WGM-PFA-STAND
Additional Arm for Wire Pilot® Feed Assist Stand	WGM-PFA-STAND-ARM
Wire Spool Holder for Wire Pilot® Feed Assist Stand	WGM-PFA-STAND-4
Wire Pilot® Swivel Kit for Wire Guide Modules (see pages 14-17)	WGM-PFA-SW
24-volt Pneumatic Solenoid with Cable	PFA-SK
Silencer/Reclassifier	PFA-SR
Wire Retract Kit for Reversing Wire Feed (24-volt)	PFA-RK
Wire Pilot® Dual Mount Bracket	PFA-DM
Wire Pilot® Remote/Wall Mounting Bracket	PFA-WM
Wire Pilot® Pivoting Extension Arm Bracket	PFA-WM-EA
Outlet for PFA w/Quick Disconnect (1/16" & smaller wire)	A-1B-C
Outlet for PFA w/Quick Disconnect (wire larger than 1/16")	A-1B-C-HD
Inlet Guide with 3/8"-18 NPS Threads	PFA-34
Inlet Guide w/Ceramic Inlet	PFA-35
3/8" NPT-M Quick Disconnect (wire larger than 1/16")	A-4HD

DRIVE ROLLS FOR WIRE PILOT® FEED ASSIST

Feed Assist Drive Roll for .035" (.9mm) wire	PFA-DR-035
Feed Assist Drive Roll for .045" (1.2mm) wire	PFA-DR-045
Feed Assist Drive Roll for .052" (1.3mm) wire	PFA-DR-052
Feed Assist Drive Roll for 1/16" (1.6mm) wire	PFA-DR-1-16
Feed Assist Drive Roll for 5/64" (2.0mm) wire	PFA-DR-5-64
Feed Assist Drive Roll for 3/32" (2.4mm) wire	PFA-DR-3-32
Feed Assist Drive Roll for 1/8" (3.2mm) wire	PFA-DR-1-8
Feed Assist Drive Roll for 5/32" (4.0mm) wire	PFA-DR-5/32
Feed Assist Drive Roll for 3/16" (4.8mm) wire	PFA-DR-3/16



WGM-PFA-STAND
Adjustable Stand for up to 4 Drums or Spools Adjusts to 86" (2.2m)
Inc. 1 arm, additional arms sold separately

PFA-SR Silencer/Reclassifier
Prevents pneumatic tool lubricant splatter and reduces noise.



HARD CHROMED & POLISHED U-GROOVE DRIVE ROLLS
(sold individually)

All PFA drive rolls are hard chromed & polished for maximum performance and durability.



NEW



PFA-WT Feed Assist Mounted on Drum Hood



**Ideal for
Shipyards!**
and other outdoor
applications

PFA-WT-DC
Drum Cart
Package with
Wheels

WIRE PILOT® ALL ENVIRONMENT FEED ASSIST

The new Wire Pilot® All Environment Wire Feed Assist has all the features and benefits of the original Wire Feed Assist with a weather-proof, heavy duty housing and fittings. Suitable for outdoor or indoor applications requiring protection from the operating environment. Uses same drive rolls as the standard Feed Assist. *Patented design.*

- ▶ **Ideal for use in shipyards, outdoor fabrication and other applications subject to extreme conditions**
- ▶ **Allows for the use of bulk wire** in applications normally requiring spools on carts, resulting in significant cost savings on wire
- ▶ Enables longer conduit runs
- ▶ Eliminates drag coefficient inside the conduit
- ▶ Extends conduit life & increases arc-on time
- ▶ Compatible with .035 to 5/32" (1-4mm) ferrous or non-ferrous wire

ALL ENVIRONMENT DRUM CART PACKAGE

- ▶ Includes cart with all terrain wheels or fork pockets, weatherproof fittings and drum cover
- ▶ Portable – 27" x 34.5" (686 x 876mm) footprint
- ▶ Powder coated, all steel construction
- ▶ For 20 to 21" round drums
- ▶ Package may be customized for your welding application, contact customer service for details



PFA-WT-DS
Drum Package
with Fork Pockets

ITEM	PART NO.
Wire Pilot® All Environment Feed Assist	PFA-WT
All Environment Feed Assist Drum Hood Mounting Kit	PFA-WT-DA
All Environment Drum Cart Package, includes wheels	PFA-WT-DC
All Environment Drum Cart Package, inc. fork lift pockets	PFA-WT-DS
All Environment Wire Feed Assist Inlet Kit	PFA-WT-IK
All Environment Direct Pull Kit	WWDP-WT

QUICKDRAW PORTABLE WIRE FEED ASSIST Model WP1000

The QuickDraw Portable Wire Feed Assist is designed to speed up the process of threading wire from the source to the feeder. Simply attach the unit on top of the wire drum or reel and use the included hand crank or a cordless drill (18v) to feed wire. *Patented design.*

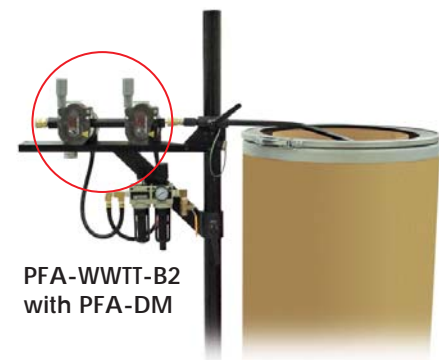
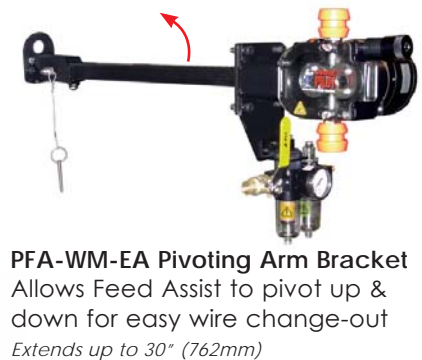
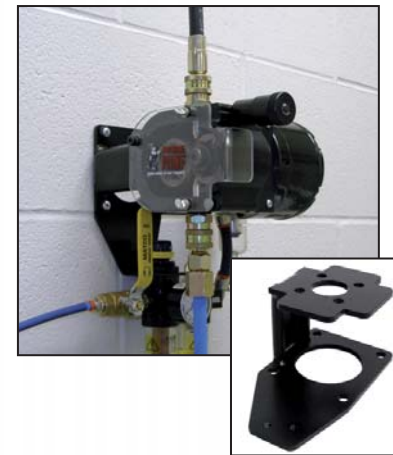
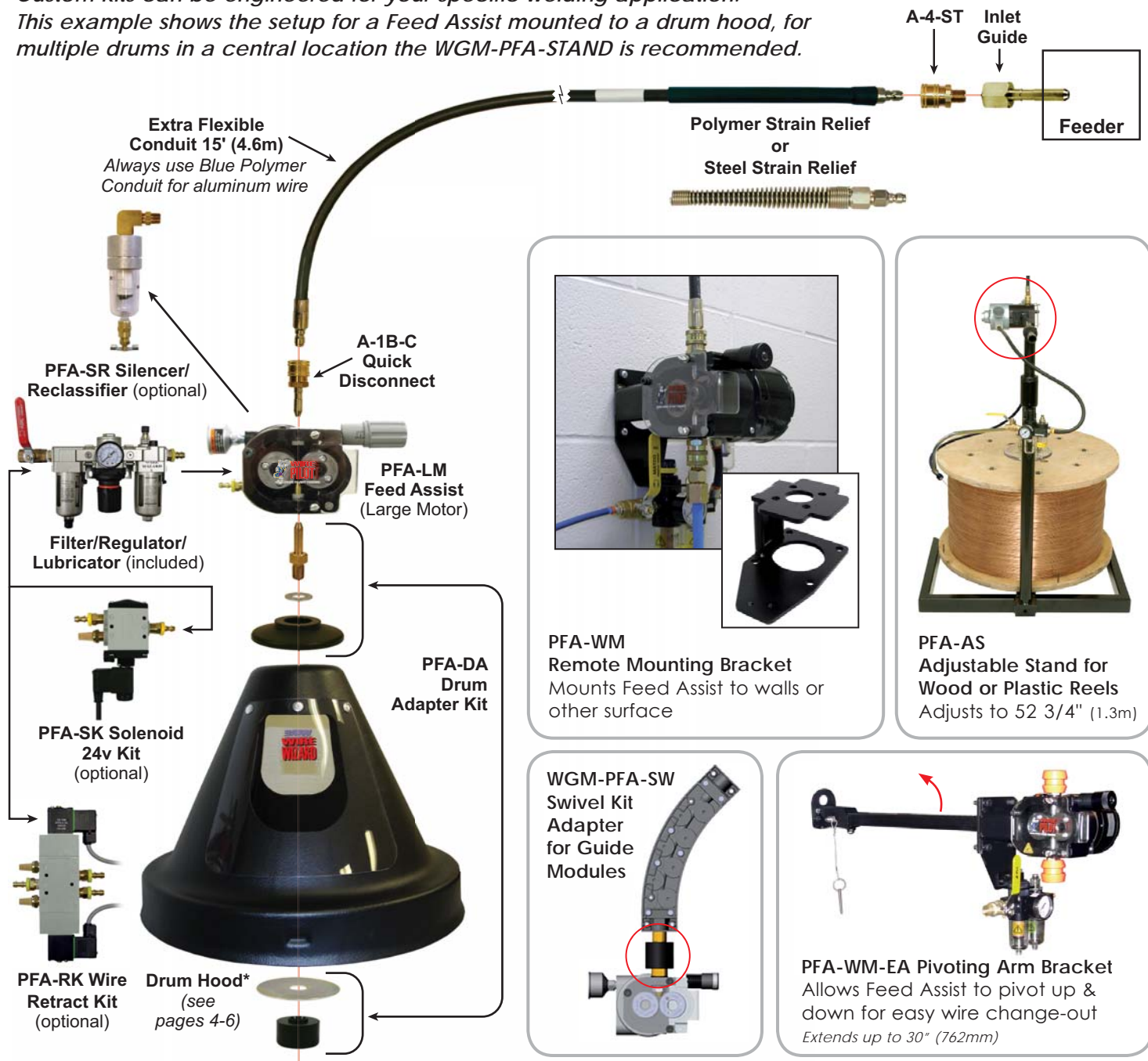
- ▶ Blazing fast wire feeding – 50 feet (15m) in less than 10 seconds!
- ▶ Accommodates .035 to .125 (1-3.2mm) wire diameters
- ▶ Changeable drive rolls (compatible with Wire Pilot drive rolls on page 31)
- ▶ May be used with a cordless or standard drill for operation (drill attachment included) or hand crank



WIRE PILOT® FEED ASSIST SAMPLE ASSEMBLY & ACCESSORIES

Custom kits can be engineered for your specific welding application.

This example shows the setup for a Feed Assist mounted to a drum hood, for multiple drums in a central location the WGM-PFA-STAND is recommended.



*Reinforced Wire Wizard™ Drum Hoods are recommended to support the Wire Pilot™ Feed Assist



ANTI-SPATTER & ACCESSORIES



Blue Magic®

ITEM	PART NO.
32 OZ Spray Bottle	EAS1000-C32
1 GAL Bottle	EAS1000-C1
5 GAL Container	EAS1000-C5
55 GAL Drum	EAS1000-C
5 GAL Concentrate	EAS1000-C-CON
Manual Drum Pump (55 gal)	EAS1000-DP
Drum Wrench (55 gal)	EAS1000-DW

BLUE MAGIC® ANTI-SPATTER & NOZZLE CLEANER

A cost effective, environmentally safe product, this new generation of anti-spatter provides superb performance even in high temperature applications. Biodegradable formula contains no harmful chemicals and is noncombustible. And, because it contains one of the lowest water contents available, ***you get protection, not water.***

- ▶ Surfactants provide excellent wetting & lubricity in torches
- ▶ Protects against spatter build-up & char residue
- ▶ Keeps clean-ups to a minimum
- ▶ Contains no silicone—easily painted over
- ▶ Low pH level inhibits multi-metal corrosion
- ▶ Will not evaporate, keeping lines & nozzles clog-free
- ▶ Contains biocide, providing longer shelf life in warm climates
- ▶ **Now available in concentrated form in 5 gallon buckets!**
1 bucket makes 55 gal. anti-spatter, ideal for overseas shipping



BLUE MAGIC® HD HIGH DUTY CYCLE ANTI-SPATTER

Introducing our toughest anti-spatter yet! The new Blue Magic® HD anti-spatter is specially formulated for extremely high temperature, long duty cycle applications.

- ▶ Special formula provides maximum protection
- ▶ Will not evaporate, even under conditions with extreme heat
- ▶ Reduces downtime for clean-ups in long duty cycle applications that generate extreme heat and excessive spatter

BLUE CHILL™ ANTI-SPATTER & NOZZLE CLEANER

Increase weld productivity with this specially blended formula that not only protects surfaces from spatter, slag, and scale but also **quickly cools down hot nozzles!** No mixing required.

- ▶ Extends nozzle and contact tip life
- ▶ Remains stable and will not evaporate
- ▶ Environmentally safe, non-toxic, biodegradable



Blue Chill™

ITEM	PART NO.
32 OZ Spray Bottle	EAS1000-BC32
1 GAL Bottle	EAS1000-BC1
5 GAL Container	EAS1000-BC5
55 GAL Drum	EAS1000-BC

Anti-spatter samples available upon request

WIZARD SHIELD™ REFILLABLE SPRAY CAN

The Wizard Shield™ Metal Protectant Spray Can is a refillable and rechargeable sprayer that is designed to apply **Blue Magic®** or **Blue Chill™** Anti-Spatter Solution. This heavy duty spray can is easy to refill and recharges quickly using only compressed air – no CO2! A cost effective and environmentally friendly alternative to disposable aerosol cans.

EAS1000-EAD
Refillable Spray Can (16 oz.)



5-GALLON MANIFOLD KIT Model 5GMK

This popular industrial size also dispenses **Blue Magic®** or **Blue Chill™** anti-spatter to **Torch Wizard™** pneumatic reamers and nozzle mist applicators. Easily integrated into any weld cell stations.

- ▶ Smaller footprint is ideal where space is an issue
- ▶ Pneumatic pump supplies 1.92 gallons per minute at 75PSI
- ▶ Bulk dispensing system easily supplies up to 15 work stations

Specifications

Height: 27" (685.8mm)

Width: 11.25" (285.7mm)

Depth: 14" (355.6mm)

Weight: 8 lbs (3.6kg)

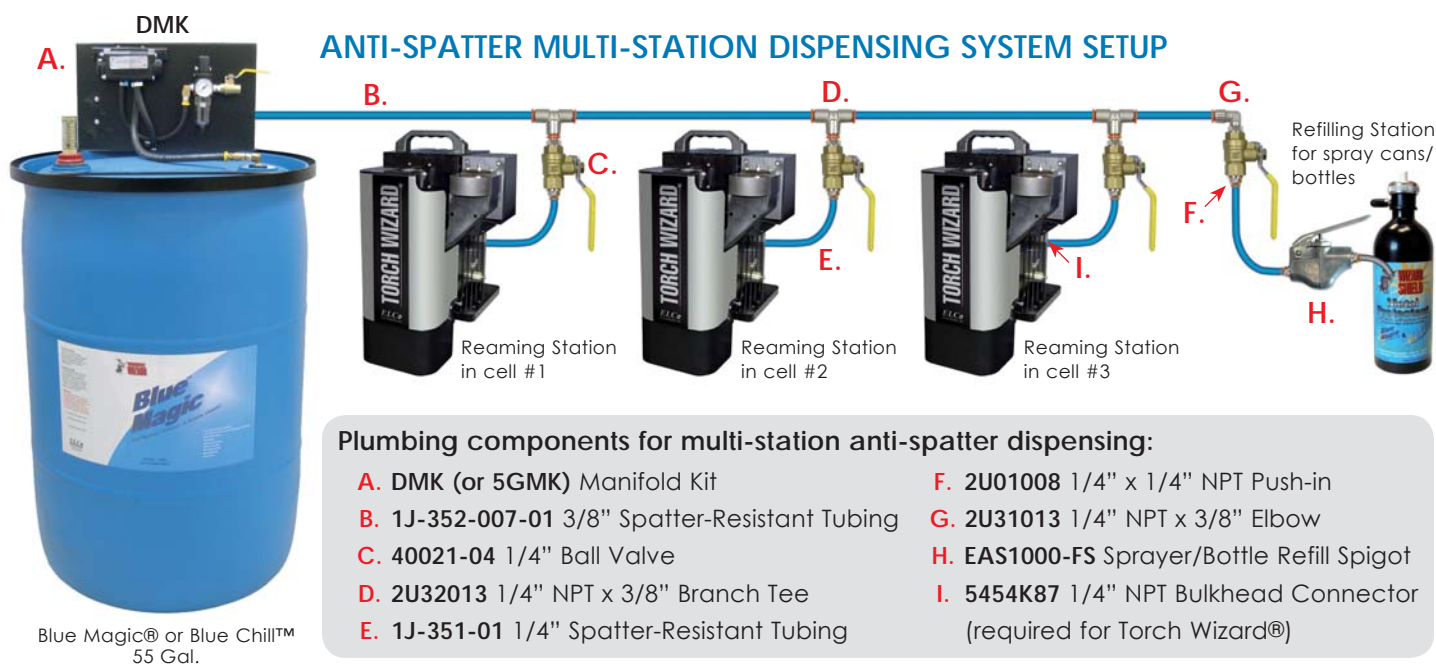


5GMK

DRUM MANIFOLD KIT Model DMK

Designed to deliver bulk **Blue Magic®** or **Blue Chill™** anti-spatter to multiple **Torch Wizard™** nozzle cleaning and/or spraying stations, eliminating the need to refill small, gravity fed containers on a frequent basis. **Optional gauge** monitors fluid level for easier maintenance. Easy to install.

- ▶ Lowers operating costs by allowing the use of bulk anti-spatter, reduces downtime for refilling
- ▶ Supplies anti-spatter to multiple stations with pneumatic pump (pumps up to 1.92 gal. per min. at 75PSI)
- ▶ Less space required due to one feeding source



ANTI-SPATTER BOWL Model LJ-007

The **Anti-Spatter Bowl** prevents spilling and the need for constant refills. Using a 32 oz. bottle, gravity feeds the solution as needed. Perfect for nozzle dipping in manual/robotic applications.



HAND-HELD SPRAYER Model TS-H-12

Designed for spot-spray applications of **Blue Magic®** or **Blue Chill™** anti-spatter, this hand-held spray gun is ideal for coating "weld zone" areas. Can be used with our bulk dispensing kits.





TORCH WIZARD™ NOZZLE CLEANING STATION

TORCH WIZARD™ NOZZLE CLEANING STATION

The newly redesigned Torch Wizard™ Automatic Robotic Nozzle Cleaning Stations assist in maintaining quality and productivity in your MIG welding cell by quickly and efficiently removing spatter build-up in the gas nozzle. Anti-spatter can be applied via the center of the cutter on select models, allowing for reaming & spraying simultaneously, reducing cycle time by 50%! **Two year warranty with exclusive use of Blue Magic® / Blue Chill™ anti-spatter.**

Product Features

- ▶ Extends torch consumable life by removing spatter build-up
- ▶ Sprays & reams simultaneously, reducing cycle time by 50%
- ▶ Center/venturi-style anti-spatter sprayer evenly coats nozzle & tip
- ▶ High torque motor prevents stalls, reducing downtime
- ▶ **New!** Model for external valve bank is easily connected and controlled by existing pneumatic manifold, eliminating the need for duplicate relay circuits (model EL-NCS-AVC-EV-12, inc. cutter, sprayer and 25 ft / 7.6m pneumatic hose bundle)
- ▶ Can spray anti-spatter only without reaming every time, optimizing cycle time
- ▶ Adjustable v-block with four points of contact allows for all nozzle diameters – no need to order clamps for different nozzle sizes
- ▶ Enclosed operating environment keeps weld cell clean
- ▶ TiN coated reamer blades offer efficiency and longevity
- ▶ Laser nozzle presence detection option does not use mechanical parts that can often break or malfunction
- ▶ Pneumatic Wire Cutters & Tool Center Points available as options
- ▶ DeviceNet capable (with option)
- ▶ Economical all-pneumatic station also available (see page 38)



EL-NCS-AC-12
TORCH WIZARD™
with integrated
anti-spatter spray
unit & wire cutter

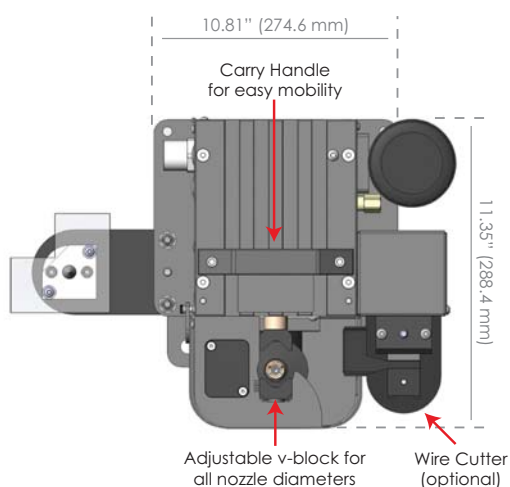
NEW



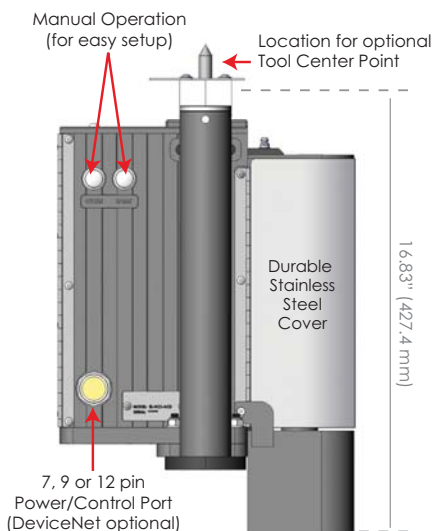
EL-NCS-AVC-EV-12
TORCH WIZARD™
for external
valve bank
controlled by
existing air
manifold on
controller
(cover removed)

Torch Wizard™ Specifications

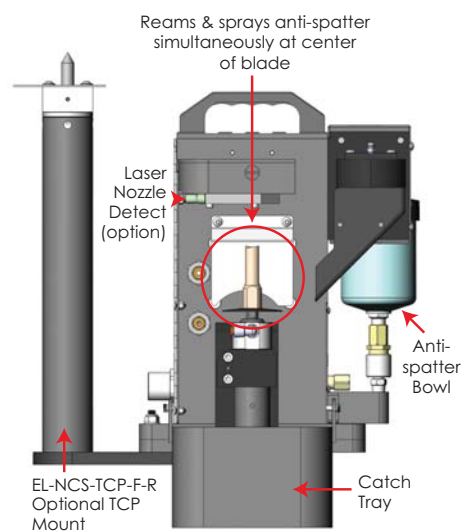
TOP VIEW



SIDE VIEW



FRONT VIEW (W/O COVER)



NOTE: Each base unit requires a reamer bit (based on I.D. of gas nozzle being used) and power/control cable. Required FRL is available for purchase.



REAMER BLADES

Made from alloy tool steel and coated with titanium nitride (TiN) for enhanced durability, our reamer blades maintain their sharp cutting edge and resist breakage. Blades are universal and can also be adopted to other major reaming station manufacturers. Sizes for all nozzle IDs & lengths available (see table below).

TORCH WIZARD™ CLEANING STATIONS & ACCESSORIES

ITEM	PART NO.
Reaming Station w/integrated anti-spatter spray	EL-NCS-A-12
Reaming Station w/integrated anti-spatter spray & wire cutter	EL-NCS-AC-12
Reaming Station w/integrated anti-spatter spray & laser nozzle presence detector	EL-NCS-AD-12
Reaming Station w/integrated anti-spatter spray, wire cutter & laser nozzle presence detector	EL-NCS-ACD-12
Reaming Station w/venturi-style anti-spatter sprayer & wire cutter	EL-NCS-AVC-12
New! Reaming Station for external valve bank, sprayer & cutter controlled by existing air manifold, inc. 25 ft (7.6m) hose bundle	EL-NCS-AVC-EV-12
36" (914mm) Stand (custom heights available)	EL-NCS-STAND
Filter/Regulator	EL-NCS-FR-12
Anti-spatter Bowl - 10 oz.	EL-NCS-AB-12
Tool Center Point	EL-NCS-TCP
Stand for Tool Center Point - 44.9" H (1141mm) from base to point	EL-NCS-TCP-F-S
Tool Center Point Mount (attaches to reaming station stand)	EL-NCS-TCP-F-R
Fanuc Tool Center Point Adapter	EL-NCS-TCP-F
Wire Cutter (included on AC, ACD & AVC models)	EL-NCS-WCS-12
Stand Alone Wire Cutter	EL-NCS-WCS-SA
DeviceNet Option	EL-NCS-ACD-DN
7 Pin, 20 ft Power/Control Cable	EL-NCS-CC7-20-3
9 Pin, 20 ft Power/Control Cable	EL-NCS-CC9-20-3
12 Pin, 20 ft Power/Control Cable	EL-NCS-CC12-20

TORCH WIZARD™ REAMER BLADES

ITEM	DIA	FLUTES	THREAD	HEIGHT	PART NO.
Reamer Blade	13 mm	2	Female	2.558"	EL-NCS-13MM
Reamer Blade	13 mm	1	Female	2.687"	EL-NCS-TL-13MMF
Reamer Blade	13 mm	1	Female	2.433"	EL-NCS-TS-13MMF
Reamer Blade	15 mm	2	Female	2.558"	EL-NCS-15MM
Reamer Blade	1/2"	2	Female	2.558"	EL-NCS-500
Reamer Blade	1/2"	1	Female	2.687"	EL-NCS-TL-50F
Reamer Blade	1/2"	1	Female	2.433"	EL-NCS-TS-50F
Reamer Blade	5/8"	2	Female	2.558"	EL-NCS-625
Reamer Blade	5/8"	1	Female	2.687"	EL-NCS-TL-62F
Reamer Blade	5/8"	1	Female	2.433"	EL-NCS-TS-62F
Reamer Blade	3/4"	2	Female	2.558"	EL-NCS-750

MALE THREADED REAMER BLADES FOR OTHER REAMING STATIONS

Reamer Blade	13 mm	1	Male (3/8"-24)	2.433"	EL-NCS-TS-13MM
Reamer Blade	1/2"	2	Male (3/8"-24)	2.558"	EL-NCS-50-M
Reamer Blade	1/2"	1	Male (3/8"-24)	2.687"	EL-NCS-TL-50
Reamer Blade	1/2"	1	Male (3/8"-24)	2.433"	EL-NCS-TS-50
Reamer Blade	1/2"	1	Male (3/8"-24)	2.437"	EL-NCS-TML-50
Reamer Blade	5/8"	2	Male (3/8"-24)	2.558"	EL-NCS-625-M
Reamer Blade	5/8"	1	Male (3/8"-24)	2.687"	EL-NCS-TL-62
Reamer Blade	5/8"	1	Male (3/8"-24)	2.433"	EL-NCS-TS-62
Reamer Blade	5/8"	1	Male (3/8"-24)	2.437"	EL-NCS-TML-62

TITANIUM NITRIDE

TiN Coated for Maximum Durability



DOUBLE FLUTE REAMER BLADE SINGLE FLUTE REAMER BLADE MALE THREADED REAMER BLADE



Torch Wizard™ Wire Cutter

Features reversible hardened steel blade for long cutting life. Included with AC, ACD and AVC models.



EL-NCS-TCP
Tool Center
Point (TCP)

EL-NCS-TCP-F-S
Stand for Tool
Center Point
(excludes
touch plate
& point)

EL-NCS-TCP-F
FANUC TCP
ADAPTER
(excludes touch
plate/point)

EL-NCS-STAND
36" (914mm) Stand
for Torch Wizard™

Please call customer service for correct retrofit reamers for: ABICOR Binzel®, Intertech®, Tregaskiss® and Nasarc®



NEW



EL-NCS-A-TA-13
TWIN ARC NOZZLE
CLEANING STATION

TORCH WIZARD™ TWIN ARC REAMING STATION

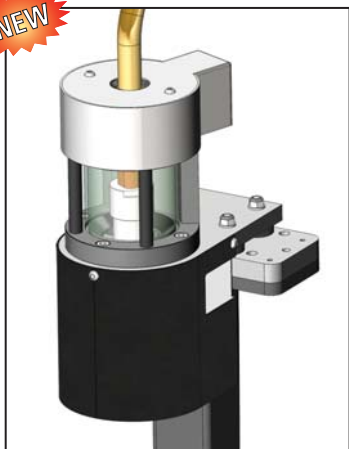
Model EL-NCS-A-TA-13

The Torch Wizard™ Twin Arc Nozzle Cleaning Station is specially designed for removing spatter build-up in twin arc torches. Anti-Spatter (**Blue Magic®**) is applied via the cutter's center allowing reaming and spraying simultaneously for shorter cleaning cycles and higher part production. Two year warranty with use of Blue Magic® / Blue Chill™ anti-spatter.

- ▶ Quickly and effectively cleans both tips on twin arc torches, requiring only a simple rotation of the torch to ream each side
- ▶ Nozzle clamp designed specifically for securing twin arc torches
- ▶ Includes all the same features and uses the same reamer blades as the single Torch Wizard™ Nozzle Cleaning Station

See page 37 for reamer blades and other options

NEW



TORCH WIZARD™ ALL PNEUMATIC REAMING STATION FOR SEMI-AUTOMATIC OR ROBOTIC APPLICATIONS

Model EL-NCSP

- ▶ All pneumatic operation, ideal for either hand-held or robotic welding applications
- ▶ Economical, simple design offers reliable operation
- ▶ Enclosed operating environment keeps weld cell clean
- ▶ Uses same durable TiN coated reamer blades as the other Torch Wizard™ Reaming Stations
- ▶ Optional anti-spatter sprayer (**EL-NCSP-SP**) and wire cutter (**EL-NCS-WCS-12**) available

EL-NCS-
WCS-SA
WIRE CUTTER
(Stand Alone
Model)



STAND ALONE WIRE CUTTER

Model EL-NCS-WCS-SA

- ▶ Provides simple, automated way to cut wire sizes from .035 to .062
- ▶ Consistent wire stick-out provides accurate wire location
- ▶ Robust, two-sided hardened steel blade offers maximum wear resistance and extended life
- ▶ Compact size allows mounting in the ideal location inside weld cell
- ▶ Requires 24v power and standard 80-100 psi air supply



EL-NCS-
WCS-LW
LARGE
WIRE CUTTER

LARGE DIAMETER AND TANDEM WIRE CUTTER

Model EL-NCS-WCS-LW (order EL-NCS-WCS-LW-1 for no valving)

- ▶ Cleanly cuts wire as thick as 3/16" (4.8mm) or up to two 5/32" (4mm) wires simultaneously
- ▶ Allows long angle cuts for smoother arc starts
- ▶ Robust, two-sided O-1 hardened steel blade offers maximum wear resistance and extended life
- ▶ Requires 24v power and standard 80-100 psi air supply

DRUM LIFTER Model FDL

- ▶ Spring loaded clamp design holds drum firmly in place
- ▶ For fiber or steel drums (chimed only)
- ▶ Accepts diameters from 18.5" to 26" (470mm to 660.4mm)
- ▶ 1200 lbs (544 kg) capacity

*NOTE: Drum rim must be within 1" (25.4mm) of the top of the drum.
Content weight must not exceed the drum manufacturers' packing limit.
Drums must be closed with lids properly sealed. Not for lifting over 10" (254mm) high.*

FORK LIFT ADAPTER Model FDL-FA

Safety Features

- ▶ Adjustable T-handle keeps adapter from sliding off fork
- ▶ Safety style clasp **secures** adapter to drum lifter
- ▶ 1200 lbs (544 kg) capacity



FDL DRUM LIFTER WITH FDL-FA

DRUM SHARK DRUM LIFTER Model FDL-C

- ▶ Lifts both chimeless and chimed fiber drums
- ▶ Four locking jaws firmly "bite" the drum without causing damage
- ▶ Accepts 20" to 26" (508 to 660mm) diameters inc. Accu-Trak® & Marathon Pak®
- ▶ 1200 lbs (544 kg) capacity



FDL-C DRUM SHARK WITH FDL-FA

ISO DRUM LIFTER (ADJUSTABLE) Model FDL-HS

- ▶ Easily attaches to chimeless ISO drums with straps or handles
- ▶ Accepts 20" to 26" (508 to 660mm) drum diameters including Accu-Pak® and Marathon Pak®
- ▶ 1200 lbs (544 kg) capacity

21" DRUM LIFTER (NON-ADJUSTABLE) Model FDL-21-12

- ▶ Our most affordable drum lifter
- ▶ Accepts 20" to 21" (508 to 533mm) drum diameters
- ▶ 1200 lbs (544 kg) capacity

24" DRUM LIFTER (NON-ADJUSTABLE) Model FDL-24-12

- ▶ Accepts 23" to 24" (584 to 610mm) drum diameters
- ▶ 1200 lbs (544 kg) capacity



FDL-HS



FDL-21-12 or FDL-24-12

**Drum lifter load test certifications are available on our website at www.wire-wizard.com*



UNIVERSAL DRUM DOLLY Model FDD-MD

Product Features

- ▶ Reversible design for large and small wire packages
- ▶ Accommodates round, square & octagon wire drums up to 25" (635mm) in diameter. *Use FDD-26-12 or WWSD for 26" packages.*
- ▶ Textite wheels and roller bearings for ease of rollability
- ▶ Standard UPS shipping available

Specifications

Deck Ht: 4.25" (108mm)
Capacity: 1200 lbs (544 kg)

Weight: 24 lbs (10.4kg)



FDD-MD setup for drums 21" & under



FDD-MD setup for drums between 21"-25"



HEAVY DUTY 26" DRUM DOLLY

HEAVY DUTY 26" (660MM) DRUM DOLLY

Model FDD-26-12

Product Features

- ▶ Wide stance with four swivel casters for ease of mobility
- ▶ 3" (76.2mm) non-conductive Textite wheels and roller bearings
- ▶ Optional brake available (add "B" to part number)
- ▶ Fits 26" (660mm) round drum packages
- ▶ Suitable for UPS shipping

Specifications

Deck Ht: 4.75" (120.6mm)
Capacity: 1200 lbs (544 kg)

Weight: 24 lbs (10.4kg)



FDSC

HEAVY DUTY DRUM STAGING CART Model FDSC

Designed for one person to transport up to 1200 pound (544 kg) wire drums. The hinged handle stores upright for pushing and outward to give added leverage for easy steering. Non-conductive Textite 6" (152.4mm) roller bearing wheels and 3" (76.2mm) front swivel caster provide smooth movement and maximum maneuverability over all surfaces.

Added Benefits

- ▶ Transports drums up to 24" (610mm) in diameter
- ▶ Optional positive locking brake system (add "B" to part number)
- ▶ Suitable for UPS shipping

Specifications

Deck Ht: 1.5" (38.1mm)
Depth: 26" (660.4mm)
Capacity: 1200 lbs (544 kg)

Height: 40" (1.02m)
Width: 30" (762mm)
Weight: 43 lbs (19.5kg)

UNIVERSAL DRUM DOLLY

ITEM	PART NO.
Universal Drum Dolly	FDD-MD

26" (660MM) ROUND DOLLY

ITEM	PART NO.
26" Diameter Dolly	FDD-26-12

HEAVY DUTY DRUM CART

ITEM	PART NO.
Up to 24" Drum Diameter	FDSC

OVERHEAD SAFETY LIFTER

The new Overhead Safety Lifter is designed to safely lift drums and environmental packages of wire overhead by attaching to Wire Wizard® drum and skid dollies. Each lifter includes the lifting device, heavy duty chains and adapter kit for drum and skid dollies. Fork lift adapter also available (see page 39).

Product Features

- ▶ Safely lifts drums or environmental packs overhead
- ▶ Ideal for overhead welding applications where drums are above the cell
- ▶ Compatible with the following Wire Wizard® drum & skid dollies:
FDD-MD, FDD-26-12 & WWSD
- ▶ 1500 lbs (680 kg) capacity
- ▶ Required for lifting drums over 10" (254mm) off the floor

OVERHEAD
SAFETY LIFTER



ITEM	PART NO.
Overhead Safety Lifter Kit with FDD-MD Dolly (up to 25"/635mm drums)	FDL-OSL-MD-K
Overhead Safety Lifter Kit with FDD-26-12 Dolly (for 26"/660mm drums)	FDL-OSL-26-K
Overhead Safety Lifter Kit with WWSD Skid Dolly	FDL-OSL-SD-K

To order the lifter for an existing dolly, remove -K from the appropriate part number above

ENVIRONMENTAL PACK SKID DOLLY Model WWSD

Capable of handling up to 1200 pounds, this dolly can be used with all drums/boxes on skids or pallets measuring 27 inches square or smaller. Four solid Textite roller bearing wheels make transporting a drum simple. Can be assembled in a lip up or lip down configuration depending on customer needs. Call customer service for larger pallet sizes.

Specifications

Deck Ht: 4.5" (114.3mm) Capacity: 1200 lbs (544 kg)
Dimensions: 5" (127mm) H x 27.5" (698.5mm) L x 27.5" (698.5mm) W
Weight: 38 lbs (17.24kg)

WWSD
PALLET (SKID) DOLLY



HEAVY DUTY WOOD REEL STAGING CART Model WRSC

Product Features

- ▶ Specifically designed to transport wood reel and cover
- ▶ All steel construction built for rugged industrial use
- ▶ Convenient, removable self-storing handle
- ▶ 4" (101.6 mm) Textite swivel and rigid roller bearing casters
- ▶ Locking swivel wheels standard

Specifications

Deck Ht: 6.75" (171.5mm) Dimensions: 36" (914.4mm) H x 36" (914.4mm) L
Weight: 118 lbs (53.6kg) Capacity: 1400 lbs (635.6kg)

WRSC
STAGING CART



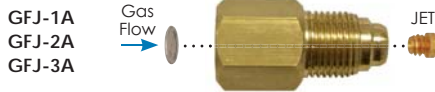
All dollies and carts are shipped unassembled (assembly available)

GAS SAVERS & MEASURING DEVICES

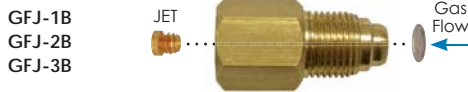
Gas Saver for Standard Outlet



Gas Saver for Inlet Side of Solenoid



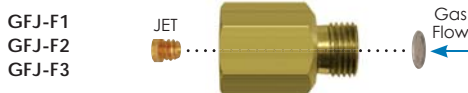
Gas Saver for Outlet Side of Solenoid



Gas Saver for Inlet Side of Solenoid



Gas Saver with BSPP Threads (Fronius® style)



INERT GAS SAVERS

- ▶ Reduces gas consumption
- ▶ Restricts gas surge upon arc starts, screen also prevents blockage
- ▶ Can be installed on the inlet or outlet side of the gas solenoid*
- ▶ Flow jets can be changed depending on application

GAS SAVERS - INCLUDE SCREENS & JETS 1, 2 or 3

(JETS INDICATED NUMERICALLY IN PART NUMBER)

PART NO.	THREADS	JET LOCATION
GFJ-1, 2 or 3	1/4"-18 Male NPT x 5/8"-18 Female	Female End
GFJ-1A, 2A or 3A	5/8"-18 Male x 5/8"-18 Female	Male End
GFJ-1B, 2B or 3B	5/8"-18 Male x 5/8"-18 Female	Female End
GFJ-1D, 2D or 3D	1/4"-18 Male NPT x 1/4"-18 Female NPT	Male End
GFJ-F1, F2 or F3	1/4"-19 Male BSPP x 1/4"-19 Female BSPP	Female End

GAS SAVER FLOW JETS

PART NO.	JET	30 PSI	35 PSI	40 PSI	45 PSI	50 PSI	55 PSI
GFJ-1*	1	10 CFH	11 CFH	12 CFH	13 CFH	14 CFH	15 CFH
GFJ-2*	2	29 CFH	33 CFH	36 CFH	39 CFH	42 CFH	45 CFH
GFJ-3*	3	51 CFH	55 CFH	61 CFH	66 CFH	71 CFH	76 CFH

Jet #1 - TIG • Jet #2 - MIG, Light Wire • Jet #3 - MIG, Heavy Wire

MANUAL GAS FLOW GAUGE Model EL-GFM

Measures the actual flow of shielding gas from the MIG/TIG torch, allowing adjustments to be made at the cylinder gauge if necessary. An economical solution for improving overall welding performance.

- ▶ Measures gas flow consumption (l/min) at the nozzle
- ▶ Flexible hose for easier operator readings



PRECISION PORTABLE GAS FLOW SENSOR Model EL-GMP

This hand-held **digital** sensor allows the operator to verify shielding gas flow rate at the weld tip with outstanding accuracy and response.

- ▶ For MIG or TIG torches
- ▶ Includes hose and filter assembly that fits over all nozzles
- ▶ Pre-calibrated for argon, C25, CO₂ or any mixed inert shield gas
- ▶ Battery life (typical 9v): 8-10 hours (includes low battery indicator)



WELD SHIELD GAS FLOW SWITCH Model EL-RVMU



Compact design provides reliable and accurate detection of excessive or insufficient flow rate at the weld point. Calibrated scale offers visual flow rate indication for quick and easy switch adjustment.

- ▶ Ideal for protecting against gas flow failure
- ▶ Corrosion-resistant stainless steel body mounts in any position
- ▶ Sends output to provide visual confirmation of gas flow

FLOW METERING DEVICES

ITEM	PART NO.
Manual, Portable	EL-GFM
Digital, Portable	EL-GMP
Flow Switch*	EL-RVMU

* Please specify gas flow range, gas mixture and thread size when ordering

WIRE FEED SPEED SENSOR Models HHSS & HHSS-12

This hand-held, battery operated tachometer incorporates the latest single chip micro-circuit technology for high reliability and low maintenance. Capable of measuring and retaining RPH, RPM, FPH, FPM and MPH. Standard accessories include: 3-1/2" (89mm) extension shaft, one funnel and two cone adapters, master wheel (6" / 152mm) and carrying case. Use the new model HHSS-12 for taking readings at the torch end.

Product Features

- ▶ Plugs into existing wire system and conduits
- ▶ Handles wire diameters from .030 to .125 (0.8 to 3.2 mm)
- ▶ Rugged aluminum construction with Delrin wire guide head
- ▶ Displays wire speed with automatic floating decimal point
- ▶ Large 13 test memory capacity selectable to 5 minutes or more

Note: Manual application only. Does not take continuous readings.

HHSS-12
WIRE FEED SENSOR



HHSS WIRE FEED SENSOR

WIRE DRAW GAUGE Model WWPT

The electronic **Wire Wizard™ WWPT** is designed to accurately measure the draw weight of all diameters of weld wire pulling through the conduit. This allows the operator to determine if the conduit needs to be changed by the amount of strain the wire is creating on the feed motor. Hand-held, battery powered (9-volt).

Product Features

- ▶ Capable of averaging 10 pulls of wire, storing the largest draw
- ▶ Measures in English or metric at the touch of a button
- ▶ Easy to read 5-digit LCD display
- ▶ Ergonomic plastic housing with standard storage case
- ▶ Max pull weight: 12 lb (5.4 kg)



WWPT WIRE DRAW GAUGE

NOZZLE CLEANING TOOLS

- ▶ Highly effective for cleaning spatter
- ▶ Helps prevent heat build-up and prolongs MIG nozzle life
- ▶ Hand-held design in a choice of five sizes



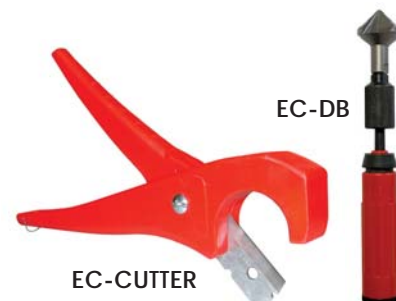
PART NO.	TIP	NOZZLE
EL-10	1/4" (6.3mm)	3/8" (9.5mm)
EL-20	5/16" (7.9mm)	1/2" (12.7mm)
EL-30	5/16" (7.9mm)	5/8" (15.8mm)
EL-40	3/8" (9.5mm)	5/8" (15.8mm)
EL-50	13/32" (10.3mm)	3/4" (19.05mm)

EC BLUE POLYMER CONDUIT CUTTER & COUNTERSINK TOOL

Model EC-CUTTER & EC-DB

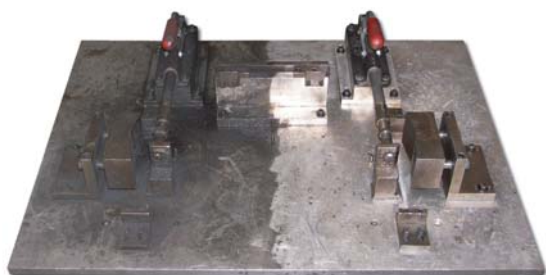
The ratcheting style, heavy duty **EC-CUTTER** is designed to trim all sizes of ELCo blue conduit with ease. Heat treated steel cutting blade. 8.5" (216mm) long.

Use the **EC-DB** ratcheting Countersink Tool for countersinking the ends of polymer conduit (required for proper installation).



EC-CUTTER

EC-DB



Welding Fixture - Before & After

Blasting Gun & Nozzles

Many additional Nozzles/Extensions available



Blasting Gun
(includes
LED light)



Long Aggressive Nozzle



Medium Nozzle



Fan
Nozzle



Non-abrasive nozzle adapter for blasting
delicate surfaces such as wood

NU-ICE AGE DRY ICE CLEANING EQUIPMENT

ELCo Enterprises also offers the Nu-Ice Age line of dry ice blasting equipment, excellent for weld cell cleaning and other plant maintenance applications. Dry ice blasting is a process where dry ice (solid CO₂) pellets are accelerated in a pressurized air stream to clean or prepare a surface. Through sublimation, where CO₂ instantly changes from a solid to a gas, the pellets create mini-explosions upon impact to effectively clean nearly any surface. Dry ice blasting is the ideal cleaning method for weld cells and other areas of the plant, including tooling, exhaust and ventilation systems. The key advantages of dry ice blasting are that it leaves behind no secondary waste (CO₂ evaporates) and since it's non-flammable and nonconductive, most equipment and machinery can be cleaned in place without any disassembly or cooling, reducing downtime for maintenance.

Dry Ice Blasting Benefits

- ▶ Environmentally friendly - no chemicals or harmful vapors!
- ▶ Non-abrasive, nonflammable and nonconductive
- ▶ Does not generate any secondary waste to clean up
- ▶ Most equipment can be cleaned in place without any disassembly or cooling, reducing downtime
- ▶ Removes residue, spatter, slag, grease, oils and more
- ▶ Dry ice is much more affordable than other heavy duty cleaning solutions

Dry Ice Blasting Machine Features

- ▶ Easy to use with minimal training required
- ▶ Compact size and wheels make this machine easy to transport and maneuver while cleaning
- ▶ Adjustable blast pressure and pellet feed rate
- ▶ Tough stainless steel enclosed body built for heavy duty industrial use
- ▶ Static ground cable included to reduce the risk of static electric shock in certain blasting applications
- ▶ Each Dry Ice Blasting Machine includes a 20 ft (6 m) hose, gun, extension and a short round & fan nozzle (see below). The gun also features a switch that changes the spray mode from dry ice+air to air only.

For more information and cleaning demonstration videos, visit
www.nuiceage.com

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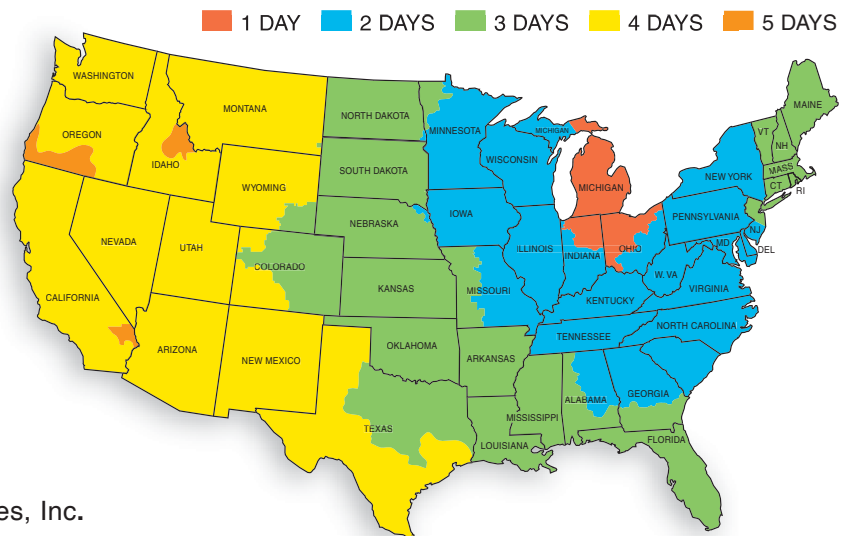
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ELCo Enterprises, Inc. offers the following UPS Shipping Options:

- **GROUND (SEE MAP)**
- **NEXT DAY AIR**
- **2ND DAY AIR**
- **3 DAY SELECT**

International Service is also available.



TERMS AND CONDITIONS

"We," "us," and "our" refer to ELCo Enterprises, Inc.

ORDERING: Our sales and customer service representatives are available Monday-Friday, 8:00AM-5:00PM (EST). **Any orders placed after 3:00PM for same day shipping will be charged a \$50.00 expedite fee.** We can also be reached by fax 24 hours a day, seven days a week. When ordering, please state your company's "bill to" and "ship to" address, purchase order number, part number, quantity, item description, and any special shipping instructions. All purchases will be shipped UPS ground unless otherwise specified. Items too large for UPS, will be shipped by commercial carrier. **\$50 minimum order.**

NOTE: Purchases cannot be delivered to post office boxes.

SPECIAL ORDERS: If a specialized part is required, please consult our staff for a quote. **There are no returns on special order items.**

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.

RETURNS: All returns must be in new condition and authorized by ELCo by use of a Returned Merchandise Authorization Number (RMA) within 30 days of the purchase date. Returns are subject to a 20% restocking fee.

WARRANTY: ELCo Enterprises, Inc. warrants manufactured products to be free from defects in material and workmanship during normal use and proper maintenance for a period of 12 months after delivery of purchase. During the warranty period, any product found by us to be defective will be repaired or replaced. Improperly maintained or installed equipment is not covered under warranty. ELCo disclaims liability for any incidental or consequential damages.

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