WIRE WIZARD®
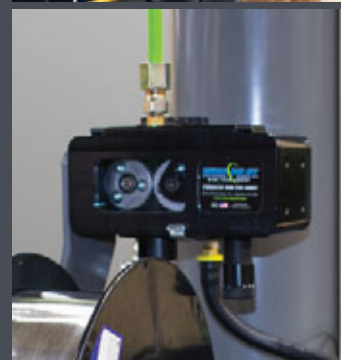
WELDING PRODUCTS

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

WIRE DELIVERY PRODUCTS & WELDING PERIPHERALS

ELC ENTERPRISES, INC.

www.wire-wizard.com

WIRE WIZARD®
WELDING PRODUCTS

POWERBALL®
TORCH PRODUCTS

🇺🇸 **PROUDLY MADE**

HIGH PERFORMANCE MIG WELDING GUNS

Wire Wizard® Welding Products is proud to introduce a new line of high performance PowerBall® Industrial MIG Welding Guns. Utilizing our patented and proven consumables design, PowerBall® MIG guns are engineered to provide maximum conductivity with increased consumable life. Higher conductivity & energy efficiency means less heat build-up in the gun, keeping your hands cool and reducing the time required for heat dissapation. Both semi-automatic and robotic MIG guns are available. *PowerBall® welding guns – A new standard for GMAW performance!*
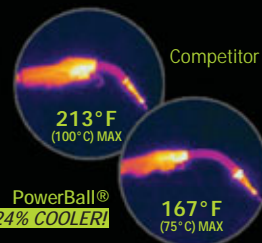
Ergonomic Design

Adjustable Trigger Pull

Proven Consumables

Superior Cooling

Competitor
213°F (100°C) MAX

PowerBall® *24% COOLER!*
167°F (75°C) MAX

POWERBALL®
TORCH CONSUMABLES

LONG LIFE
OUTLASTS OTHER TIPS BY UP TO 5X+!

PowerBall® Torch Tips & Diffusers provide an all-copper wire pathway for maximum conductivity and performance. Boost the power of your torch with PowerBall® Tips & Diffusers! High performance torch nozzles also available. Patent pending design.

Previous Tip | PowerBall®

Tip comparison after one full shift of heavy welding*

E•POWER®
TORCH LINER

Extended outer jacket minimizes gas loss

Helically wound elliptical wire liner
PATENT PENDING

E-Power® Torch Liners are designed to provide superior feedability with low wire skid friction. Made with a helically wound elliptical wire with a proprietary coating that both reduces friction and wire shaving. The result is a long lasting torch liner that reduces costly downtime caused by wire feeding issues.

E-Power® | Leading Competitor
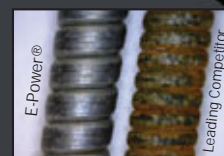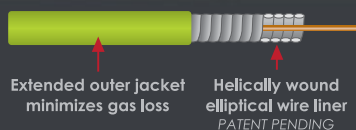
Corrosion Resistant!
Ideal for all environments

WELDERS CAN FEEL, HEAR & SEE THE DIFFERENCE!®

SCAN HERE FOR THE POWERBALL TORCH PRODUCTS CATALOG
Visit www.wire-wizard.com for more information or contact customer service to request printed copies

SOLVING WELDING CHALLENGES & MANUFACTURING INNOVATIVE WELDING PRODUCTS SINCE 1985

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

ELCo Headquarters in Jackson, Michigan

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**

← WWDP

FLANGED HOODS FIT BOTH CHIMED DRUMS &
ENVIRONMENTAL PACKS
(EXCEPT FOR LARGE 26″ DRUMS)

WWIC-11
REUSABLE DRUM CORE
for all coreless drums.
Helps prevent 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**
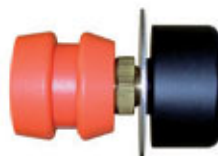
WWDP SIDE   CERAMIC INLET

ROUND DRUM HOOD

OCTAGON DRUM HOOD

WWDI

LOW PROFILE OCTAGON HOOD

SQUARE DRUM HOOD
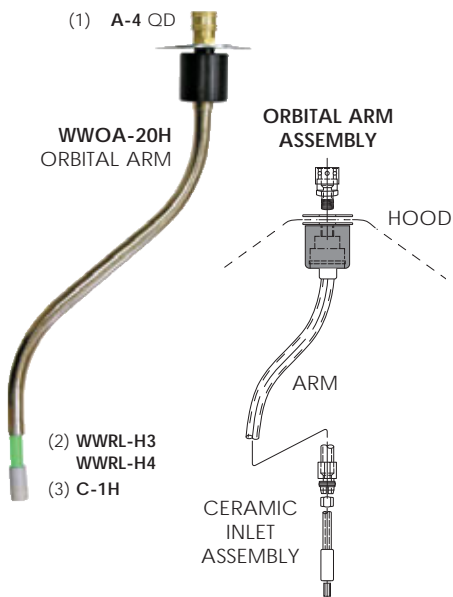
ORBITAL ARM KITS *For tangle-free wire dispensing*

► Helps prevent wire from tangling inside the drum
► Arms available for all wire sizes and types up to 1/16″ (1.6mm)
► Polished ceramic inlet guide will not shave wire
► Compatible with all Wire Wizard® Drum Hoods

(1) **A-4** QD

WWOA-20H
ORBITAL ARM

ORBITAL ARM
ASSEMBLY

HOOD

ARM

(2) **WWRL-H3**
WWRL-H4

(3) **C-1H**

CERAMIC
INLET
ASSEMBLY

WIRE PRESENCE SENSOR BLOCK & PROXIMITY SWITCH

Model WWSB-M12-K

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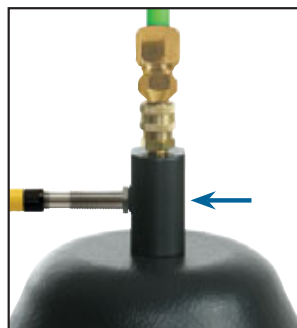
ROUND DRUM HOODS 20"-23" (508-584MM) HOODS FIT BOTH CHIMED DRUMS & ENVIRONMENTAL PACKS

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 & Prox. Switch Kit	WWSB-M12-K
Sensor Block (12mm)	WWSB-M12
Proximity Switch (PNP)	WWA5-E34
Proximity Switch (NPN)	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) Steel or Cored Wire	WWOA-20
20" (508mm) to 23.4" (594mm) Cover for up to .062 (1.6mm) Alum./Non-ferrous or Steel Wire	WWOA-20H

AVAILABLE ORBITAL ARM REPLACEMENT PARTS

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

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)
for 5/64" / 2mm or larger diameter wire use 23.4" (594mm) drum hoods	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 46-48*

Setup for smaller drums

Setup for larger drums

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

WWSD Skid Dolly (27.5″/698.5mm square)

FDD-MD Universal Drum Dolly (reversible design)
For drums/boxes up to 25″ (635mm) - Use FDD-MD-LD for 29″ packages

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"

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

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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

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 with 4 stations for 23.4″ (594mm) Ø Drums (1-Torch)	NSW-23.4-2
System with 4 stations for 23.4″ (594mm) Ø Drums (2-Torch)	NSW-23.4-4
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-14
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* *(must specify wire wize when ordering)*	NSW-BW-WS-1
Wire Parters *(included on butt welder docking station)*	BW-WP
Wire Gage Block *(included on butt welder docking station)*	WGB

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

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
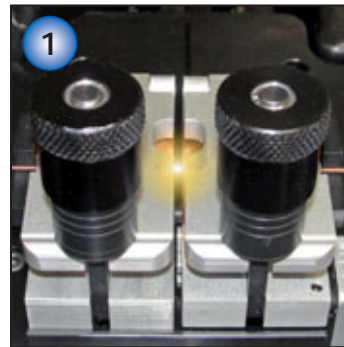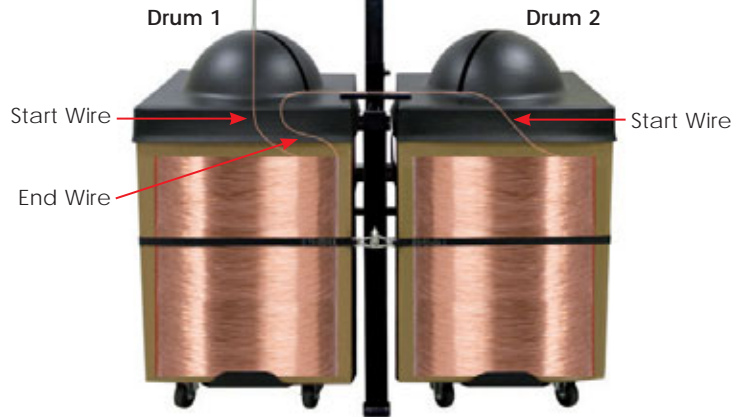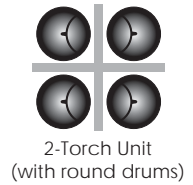Welds up to .078 (2mm) ferrous metal wire
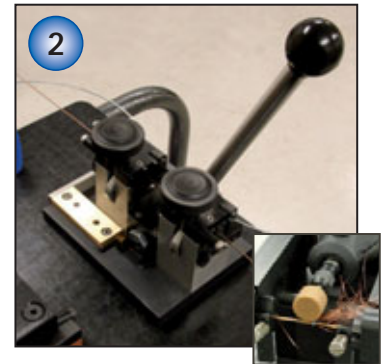
Eliminates Downtime for Wire Changeover!

COMPONENTS & BASIC SETUP

Conduit →

Wire Transfer Arm →

NSW Drum Hoods

Wire Whip

Butt Welder Docking Station

Additional Wire Exit Point Options

Wire Pilot® Feed Assist Mounting Adapter

← **NSW-PFA-AK-15** *(includes liner)*

Guide Module(s)

May be mounted in a fixed position or with the Guide Module Swivel Kit to allow 360° rotation

DRUM SETUP

Single Torch Unit (with round drums)

2-Torch Unit (with round drums)

Drum 1

Drum 2

Start Wire →

End Wire →

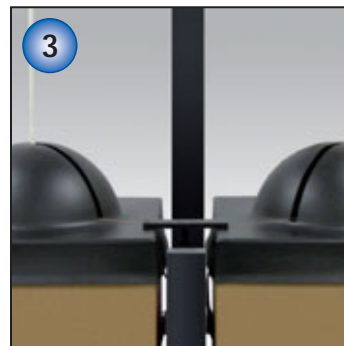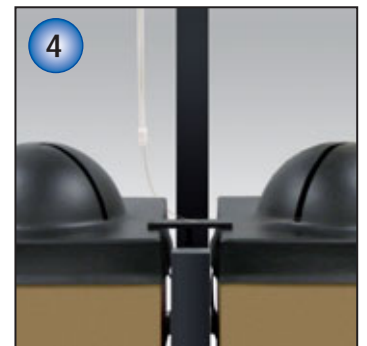← Start Wire

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 pathway 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.

MECHANICAL TURN TABLE Model WWTT-2012

► 1000 lb (453 kg) 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" (1.067 m)   Width: 30" (762mm)
Length: 26" (660.4mm)   Weight: 142 lbs (64.5kg)

WWTT-2012
MECHANICAL
TURN TABLE

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

WWTT-WHEEL-12 Optional wheels

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

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

WWTT-BRAKE-1-12
PNEUMATIC BRAKE KIT

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 32) and filter/regulator/lubricator to the top of the turn table

► Allows for longer conduit runs from the drum to the wire feeder

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 for up to 26″ (660mm) drums	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

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

TRADITIONAL DEREELING ARMS FOR WOOD & 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

Dereeling Arm
Available for 30" (762mm) or 24" (610mm) reels, or adjustable models

Liner
Note: Always use polymer liners for aluminum wire

Drag Brake

Base Plate

C-44 BASE PLATE FOR 5" (127mm) ARBOR HOLES *(use C-45 for National Standard® reels with 3/4" wood)*

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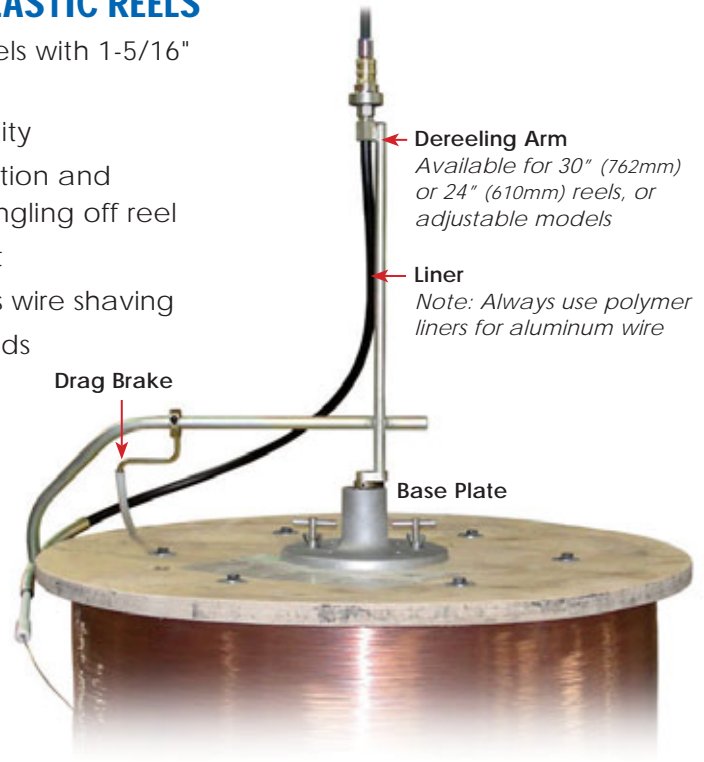
DEREELING ARMS AND COMPONENTS

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-C44
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	30" (762mm)	5" (127mm)	Polymer	RW1034P-C44
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-C44
Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C44
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-C44
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-C45
Arm for Nat. Standard® 3/4" wood reels, .035-1/16" wire	24" (610mm)	5" (127mm)	Polymer	RW1035P-C45
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	5" (127mm)	Polymer	RW1042-C40
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	5" (127mm)	Steel	RW1043-C40
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	1-5/16" (33mm)	Polymer	RW1042-C41
Adjustable Dereeling Arm Kit for .035 - 1/16" (0.9-1.6mm) wire*	Adjustable	1-5/16" (33mm)	Steel	RW1043-C41
Base Plate for 5" (127mm) Arbor Holes	—	5" (127mm)	—	C-44
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-45
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				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.

*Adjustable Dereeling Arm Kits include magnetic brake shown on page 12.

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.

WIRE WIZARD® HIGH PERFORMANCE GUIDE MODULE DEREELING ARMS

The new **Wire Wizard® Guide Module Dereeling Arm** design utilizes patent pending Wire Guide Modules and a new magnetic brake design for low friction, flawless delivery of wire from wood reels. The Guide Module Arm is designed to eliminate skid friction on the wire, which provides a smoother wire feed than traditional dereeling arms. The innovative new magnetic brake design outlasts drag brakes and allows precise adjustment to prevent wire shingling.

Fully Adjustable Magnetic Brake

► New arm design utilizing **Wire Wizard® Guide Modules** eliminates skid friction, providing a smoother wire feed than traditional dereeling arms

► Base plate designs to fit 30″ wood reels with 1-5/16" (33mm) or 5" (127mm) center arbors

► New adjustable magnetic brake provides smooth acceleration and deceleration of feed arm and prevents wire from shingling off reel

► Magnetic brake design will not wear out like traditional friction-based drag brakes do over time

► Ceramic inlet guide provides long wear and prevents wire shaving

► Kits (RW#) include arm, liner, brake, base plate & quick disconnect

WIRE WIZARD *GUIDE MODULE SYSTEM*®

GUIDE MODULE DEREELING ARMS AND COMPONENTS

ITEM/WIRE SIZE	REEL DIAMETER	ARBOR HOLE SIZE	PART NO.
WGM Dereeling Arm Kit for .035 - 1/16″ (0.9-1.6mm) wire	30″ (762mm)	5″ (127mm)	RW1039-C40
WGM Dereeling Arm Kit for .035 - 1/16″ (0.9-1.6mm) wire	30″ (762mm)	1-5/16″ (33mm)	RW1039-C41
Base Plate w/Magnetic Brake for 5″ (127mm) Arbor Holes	—	5″ (127mm)	C-40
Base Plate for w/Magnetic Brake 1-5/16″ (33mm) Arbor Holes	—	1-5/16″ (33mm)	C-41
Replacement Guide Module for Dereeling Arm (upper)	—	—	WGM-C-1
Replacement Guide Module for Dereeling Arm (lower)	—	—	WGM-C-1A

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

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 Large Guide Modules at top

ITEM	PART NO.
Single Vertical Dereeler for Wood Reels	WWA-12-1
Tandem Vertical Dereeler for Wood Reels	WWA-12-2

37″ (940 mm) 32″ (813 mm)

SAW WIRE DELIVERY SYSTEMS FOR DRUMS

Wire Wizard® SAW Wire Delivery Systems for Drums are the ideal way to handle large diameter wire from 1/16″ (1.6mm) to 3/16″ (4.8mm) in bulk drum packaging. These setups allow for accurate welding with large wire by eliminating wire flip as well as preventing flux-core splitting, excessive tip wear, pulsating, burn backs and blown holes.

▶ All systems designed to eliminate wire flip & excess friction

▶ Compatible with up to 1,000 LB (453 KG) bulk drums and up to 3/16″ (4.8mm) wire

▶ Does not change the cast of the wire

▶ Prevent tip wear, pulsating, burn back & blown holes

▶ Dispense large diameter wire at speeds up to 250 IPM

▶ **Wire Pilot® Feed Assist(s)** reduce pull on the feed motor and allow long distance wire feeding

▶ **Large Wire Guide Modules** (see page 14) may be installed at the wire source or near the feeder to eliminate excess friction

▶ A variety of SAW wire delivery system setup options are available, contact customer service for details

Single or tandem Wire Pilot® Feed Assists may be adapted to the unit (see page 32)

Large Guide Modules installed at the feeder, with large wire straightener

Application with Turn Table and vertical wire feed

Application with Turn Table and horizontal wire feed

Mezzanine Installation

THE NEW PATH OF LEAST RESISTANCE! ™

WIRE WIZARD WELDING PRODUCTS

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
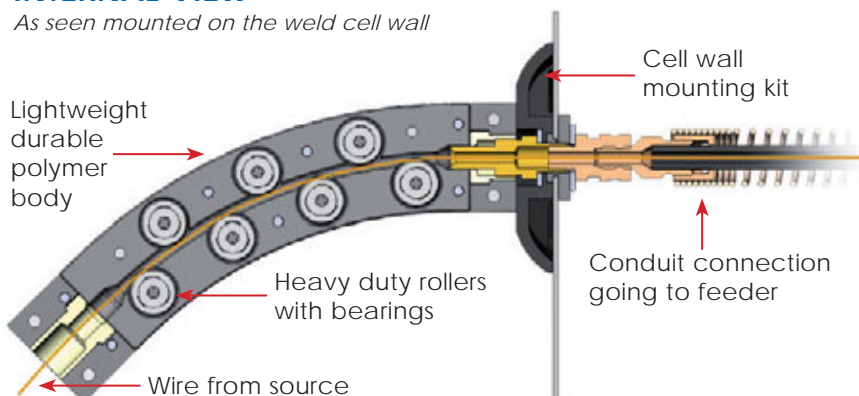
► **Eliminates skid friction** on the wire in areas where bends/corners are necessary throughout the wire dispensing system

► 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

► 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)
   XL MODULES ARE IDEAL FOR SAW WELDING APPLICATIONS!

► **3 YEAR GUARANTEE!** *(excludes damage caused by industrial contaminants)*

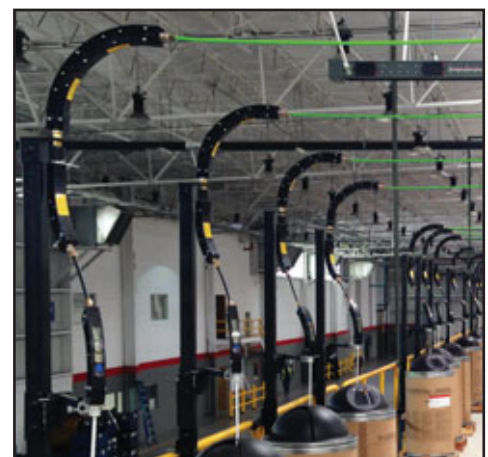   *The Guide Module HD and XL models contain heavy duty steel rollers*

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

PROUDLY MADE

45° Guide
Module
mounted on
drum cover

INTERNAL VIEW
As seen mounted on the weld cell wall

Lightweight durable polymer body

Cell wall mounting kit

Conduit connection going to feeder

Heavy duty rollers with bearings

Wire from source

See pages 15-18 for Guide Module Components & Accessories

Installation with 90° Guide Modules and Non-Stop™ Wire Systems
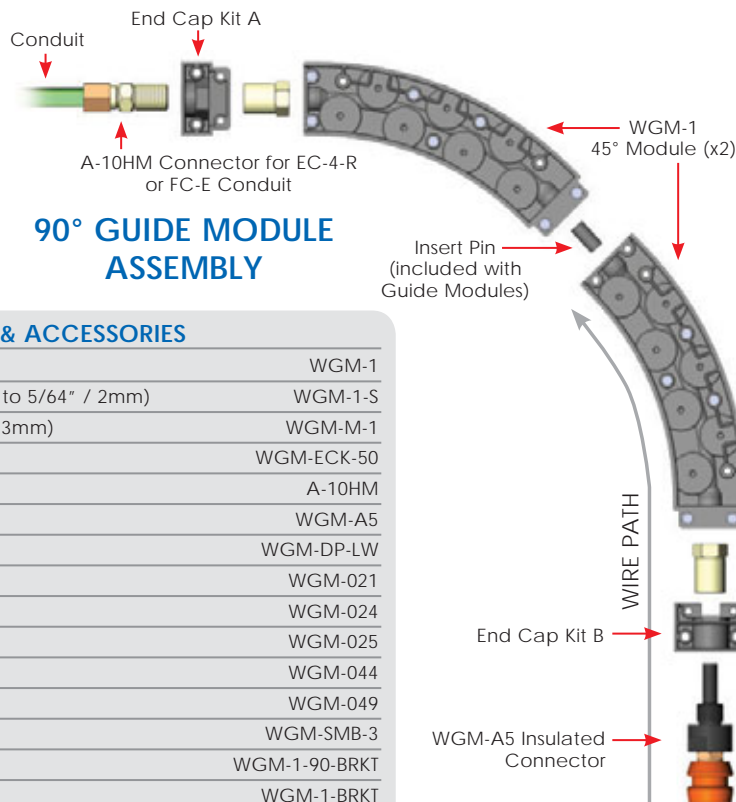
WIRE GUIDE CAPS *(required for cored wire applications)*

Required for initial feeding of cored wires.

Wire Guide Caps (10 pk)
GC-1 Guide cap for up to .052 wire
GC-2 Guide cap for .062-3/32" wire
GC-CRIMPER Crimper for Wire Guide Caps

End Cap Kit A

Conduit

A-10HM Connector for EC-4-R or FC-E Conduit

90° GUIDE MODULE ASSEMBLY

WGM-1 45° Module (x2)

Insert Pin (included with Guide Modules)

WIRE PATH

End Cap Kit B

WGM-A5 Insulated Connector

WGM-A5 Insulated Connector

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 1/2″ NPS-F (for A-10HM or WGM-A5)	WGM-ECK-50
Guide Module Conduit Connector for EC-4-R Conduit	A-10HM
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 Quick Disconnect Adapter (male end)	WGM-049
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	WGM-A-10BK
Guide Module Insulated Face Mount Bracket w/nut & insulators for A-10HM	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 Lincoln Electric® Series 10 Feeder	WGM-FSK-L
Guide Module Swivel Kit for Direct Connection to Panasonic®/OTC® Feeders (9/16-18 F thread)	WGM-FSK-P
Guide Module Drum Hood Swivel Kit for use w/Wire Wizard® Hoods	WGM-HSK-15
Guide Module Swivel Kit for Connecting Stationary to Swiveling Guide Modules	WGM-MSK-14
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
Guide Module Roof Mount or Wall Mount Swivel Kit - Includes 90° Compact Module	WGM-RSK-16
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-14
Wire Guide Caps for up to .052 wire (required for cored wire) - 10/pk.	GC-1
Wire Guide Caps for up to .062-3/32 wire (required for cored wire) - 10/pk.	GC-2
Crimping tool for installation of wire guide caps	GC-CRIMPER
Guide Module Tool & Diagnostic Kit - includes required tools for assembly & testing	WGM-ATK

LARGE WIRE GUIDE MODULE XL 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 connector)	WGM-LW-ECK-50
Large Guide Module Conduit Connector for FC-XH-LW Conduit	A-9
Large Guide Module Quick Disconnect Adapter (male end)	WGM-LW-049
Hanging Bracket for Large Wire Guide Modules (45° or 90°)	WGM-LW-BRKT
Large Guide Module Fixed Mounting Adapter for the Wire Pilot® Feed Assist	PFA-54

GUIDE MODULE TOOL & DIAGNOSTIC KIT
Model WGM-ATK

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

Kit Includes:

► Required wrenches/pliers
► Countersink Tool (pg 49)
► Stone bit for rotary tools
► Wire Draw Gauge (pg 49)
► Extra nuts & bolts
► Installation videos (USB drive)

NEW

WGM-RSK-16 Roof Swivel Kit
Includes compact 90° Guide Module
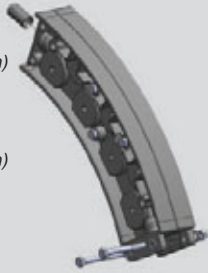
WIRE WIZARD GUIDE MODULE SYSTEM® — COMPONENTS & MOUNTING ACCESSORIES

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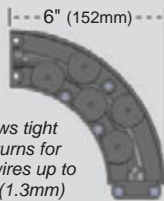*For large wire 5/64" to 3/32" (2mm-4mm)*

90° MINI GUIDE MODULE

6" (152mm)

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

End Cap A

Each kit includes one A & one B end cap

End Cap B

WGM-ECK-50
Use for WGM-1, WGM-1-S & WGM-M-1

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
WIRE WIZARD® POLYMER CONDUIT

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-16-F-6 or A-9

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

WGM-A5 (all modules except WGM-LW-1)

A-10HM (for EC-4-R)

Guide Module End Cap

Compression (A-10##)

A-4HD Qk. Disconnect *(for WGM-LW-1 only)*
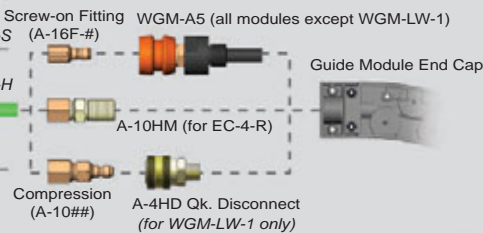
CONDUITS & FITTINGS
WIRE WIZARD® EXTRA FLEXIBLE CONDUIT

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

Compression (A-10##)

WGM-A5 (all modules except WGM-LW-1)

A-9 (WGM-LW-1 only)

Guide Module End Cap

Swaged Fitting (Pre-cut only)

A-4HD Qk. Disconnect *(for WGM-LW-1 only)*
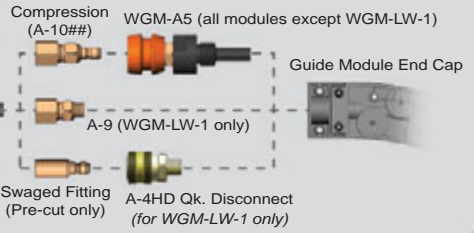
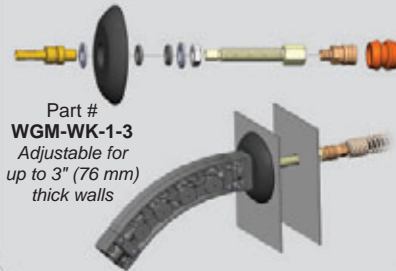### CELL WALL MOUNTING KIT, SINGLE SIDED

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

WGM-A-10BK

Drum -or- Wood Reel

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

WWDP Direct Pull Kit

Drum -or- Wood Reel

Wire Wizard® Fire Resistant Drum Covers & Dollies Available
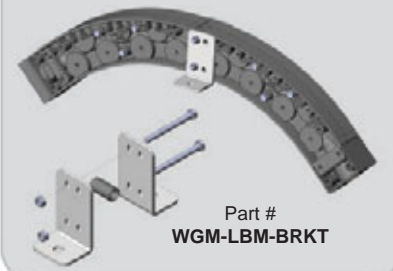
Conduit to wire feeder

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 CONNECTOR OPTIONS

THREADED CONNECTORS

A-10HM
For connecting EC-4-R or FC-E to WGM-1, WGM-1-S or WGM-M-1

A-9
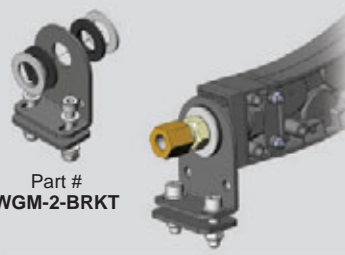*For connecting FC-XH-LW to WGM-LW-1*

DETACHABLE QD CONNECTORS

WGM-A5
Insulated Connector with quick disconnect

Use for WGM-1, WGM-1-S & WGM-M-1

A-4HD
Quick disconnect for WGM-LW-1

A-4HD

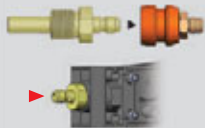## INSULATED FACE MOUNT BRACKET
Allows 360° directional adjustment

Part #
WGM-2-BRKT

DRUM HOOD MOUNTING KIT

Part #
WGM-DK ▶

MALE DISCONNECT FITTINGS

WGM-049
Male fitting for WGM-1, WGM-1-S & WGM-M-1

WGM-LW-049
Fitting for WGM-LW-1

GUIDE MODULE DIRECT PULL INLET

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

HOOD SWIVEL KIT

Allows 360° rotation on top of drum cover.

Part #
WGM-HSK-15 ▶

MODULE / FEEDER SWIVEL KITS

FEEDER

Part #
WGM-FSK-L
Swivel for Lincoln Electric® Series 10 style feeders (inc. inlet guide)

WGM-FSK-P
Swivel for most Panasonic/ OTC feeders (9/16-18 F thread)

Part #
WGM-MSK-14
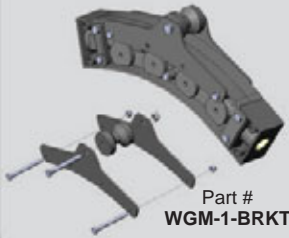*Creates 360° rotation point between two Modules*

FEED ASSIST SWIVEL KIT
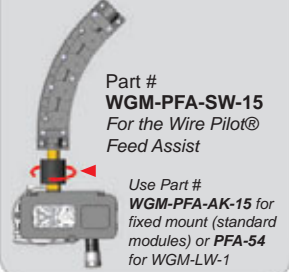
Part #
WGM-PFA-SW-15
For the Wire Pilot® Feed Assist

*Use Part # **WGM-PFA-AK-15** for fixed mount (standard modules) or **PFA-54** for WGM-LW-1*

45° MODULE HANGING BRACKET KIT
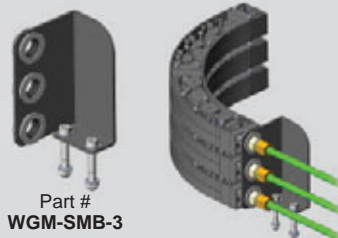
Part #
WGM-1-BRKT

90° HANGING BRACKET KIT

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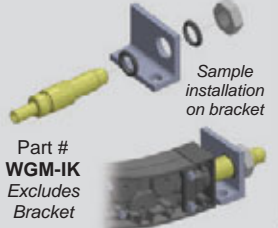*(WGM-LW-BRKT for WGM-LW-1)*

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

Sample installation on bracket

Part #
WGM-IK
Excludes Bracket

ADJUSTABLE EXTENSION ARM
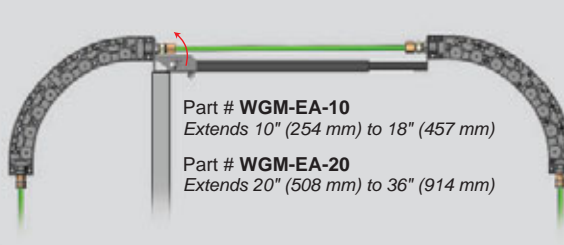*For installation at the top of the weld cell wall*

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

PIVOTING ADJUSTABLE EXTENSION ARMS
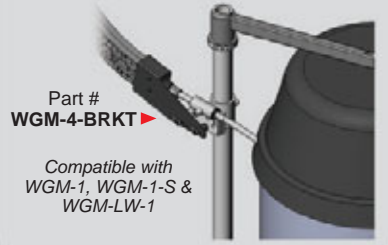*Both arms pivot upward to allow easy wire feeding from drums & reels*

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
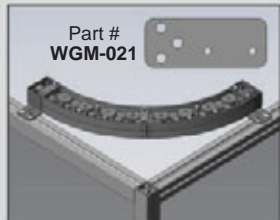*Secures Modules to Wire Wizard® Turn Table*

Part #
WGM-4-BRKT ▶

Compatible with WGM-1, WGM-1-S & WGM-LW-1
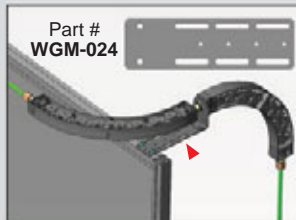
WELD-ON OR BOLT-ON MOUNTING BRACKET

Part #
WGM-044

SUPPORT BRACKET

Part #
WGM-021

SLOTTED SUPPORT BRACKET
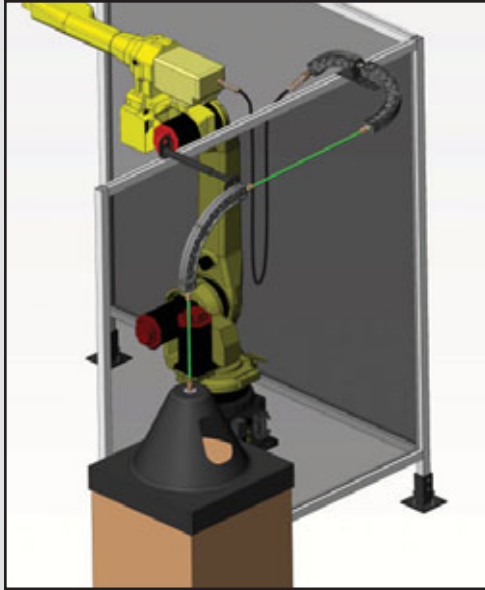
Part #
WGM-024

45° ANGLE SUPPORT BRACKET
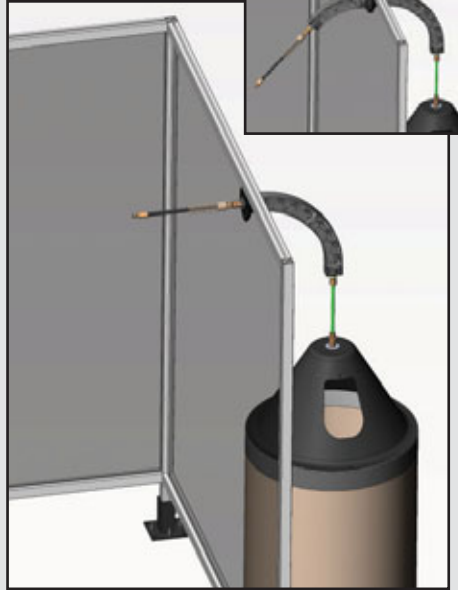
Part #
WGM-025

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.
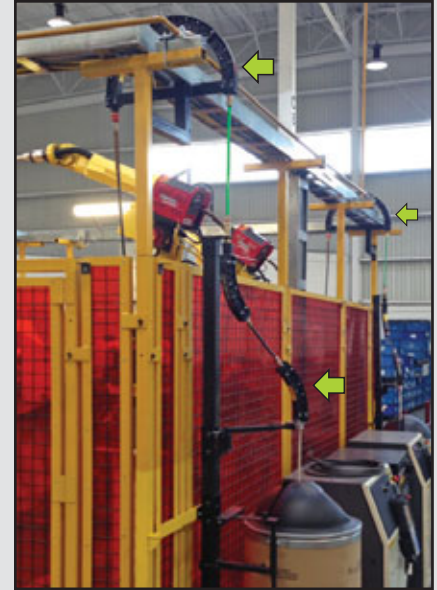
GUIDE MODULE APPLICATION EXAMPLES

Setup with Modules mounted on top of cell

Setup with Modules mounted on cell wall, saving valuable floor space

180° Modules installed on cell with two robots & the Non-Stop™ Wire Dispensing System

WIRE WIZARD WELDING PRODUCTS

NEW

GUIDE MODULE® *FLEX*

Single FLEX Module

End Cap A

Assembled FLEX Modules

End Cap B

FLEXIBLE SOLUTION FOR WIRE DELIVERY ON GANTRIES, TRAVERSING AXIS & BOOMS

Featuring the same innovative concept as the fixed radius Wire Wizard® Guide Modules, the **Guide Module® FLEX System** is designed especially for welding applications using a traversing axis, gantry or boom. The FLEX utilizes a series of rollers with bearings to eliminate skid friction on the wire, providing a smooth, consistent wire feed. Ideal for many applications utilizing igus® Track Systems. For solid wires (ferrous or non-ferrous) .035 to 1/16″ (0.9–1.6mm). Patent pending design.
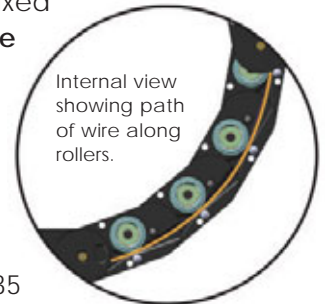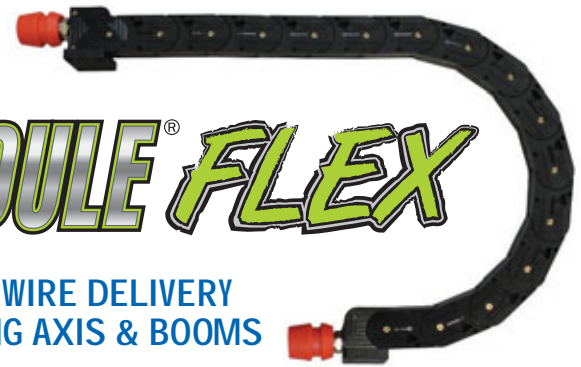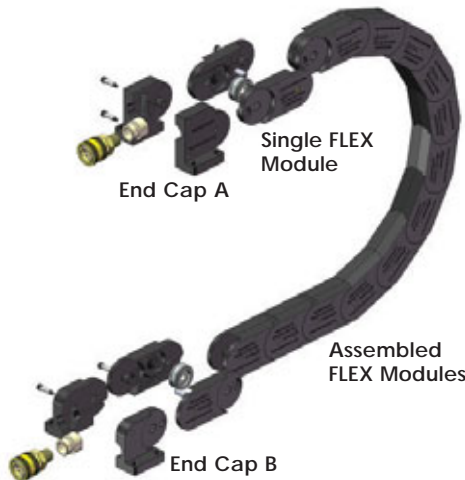
Internal view showing path of wire along rollers.

Guide Module® FLEX installed on igus® track

ITEM	PART NO.
Guide Module FLEX 5 ft (1.5m) Section - includes end caps	WGM-F-2-5
Guide Module FLEX 10 ft (3m) Section - includes end caps	WGM-F-2-10
Guide Module FLEX Individual Module (for custom lengths)	WGM-F-2-M
Guide Module FLEX End Cap Kit - Includes both A & B End Caps	WGM-F-2-ECK
Guide Module FLEX Aluminum Mounting Channel, 4 ft (1.2m) section	WGM-F-2-016
Splice Kit for Connecting Mounting Channels	WGM-F-2-SK
End Cap Mounting Kit for Connecting FLEX Modules at the end of the channel	WGM-F-2-MK
Wire Caps for up to .052 wire (required for cored wire) - 10/pk. *(see pg 15)*	GC-1
Wire Caps for up to .062-1/16 wire (required for cored wire) - 10/pk. *(see pg 15)*	GC-2

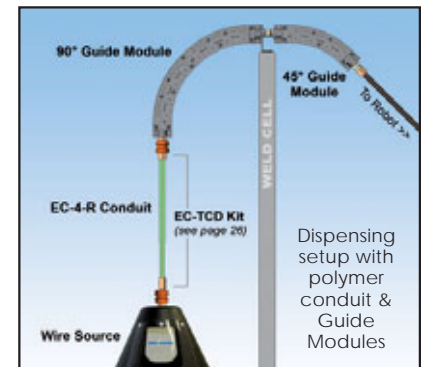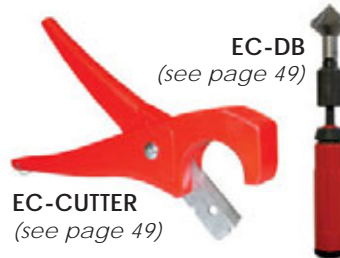## GREEN POLYMER CONDUIT (see page 23 for size reference table)

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 or moving feed units and is also the recommended conduit for aluminum wire applications. EC-3-R & EC-4-R conduits feature an advanced polymer formula for extended wear and durability.

Featuring advanced polymer formula for extended wear and durability!

GREEN POLYMER CONDUIT
Shown as cut length with connector options

► **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 23)*

► 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 22)*

CONNECTOR OPTIONS & INSTALLATION TOOLS

Self-threading "screw-on" style fitting

Compression style fitting with ferrule

EC-CUTTER
(see page 49)

EC-DB
(see page 49)

90° Guide Module

45° Guide Module

To Robot

EC-4-R Conduit

EC-TCD Kit
(see page 26)

WELD CELL

Wire Source

Dispensing setup with polymer conduit & Guide Modules

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 advanced polymer conduits are 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 advanced polymer conduit against a leading competitor by continuously flexing it back & forth until the point of failure. *Wire Wizard® polymer conduit survived this rigorous test over 70 TIMES longer than the competitor. The results speak for themselves!*

Flexural Strength Testing Device

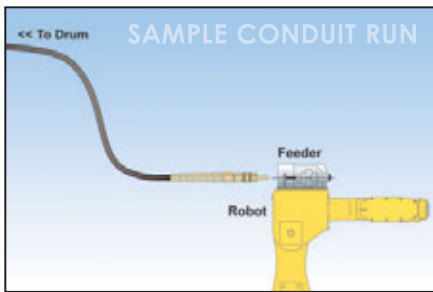*Patented elliptical smooth-coated spring liners!*

COMPRESSION   SWAGED

EXTRA FLEXIBLE CONDUIT
Shown as cut length with connector options

FC-X CONDUIT (EXPLODED VIEW)

<< To Drum

SAMPLE CONDUIT RUN

Feeder
Robot

FC-XH Conduit going to the robot

EXTRA FLEXIBLE CONDUIT *(see page 23 for size reference table)*

Our most durable 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 patented 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 22)*

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

STEEL STRAIN RELIEF OPTION (SEE PAGE 22)
Recommended for high mobility applications

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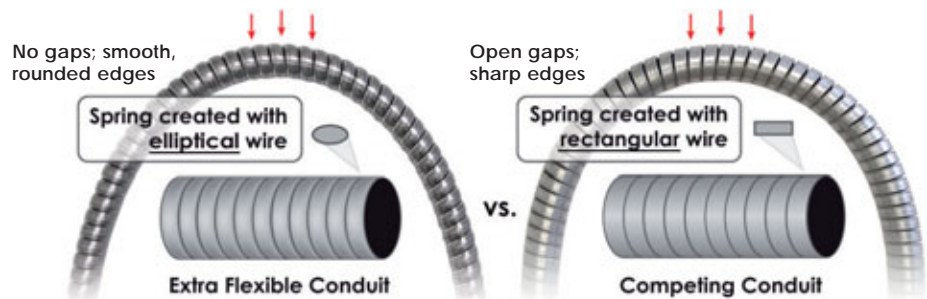
P/N	LENGTH
FC-X-SW-B	100 ft (30.5m)
FC-X-B	100 ft (30.5m)
FC-XH-B	100 ft (30.5m)
FC-XH-LW-B	100 ft (30.5m)

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

All ELCo spring liners featured in our Extra Flexible Conduit and Torch Liners are built with a unique smooth coated 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.

No gaps; smooth, rounded edges

Spring created with elliptical wire

Extra Flexible Conduit

Open gaps; sharp edges

Spring created with rectangular wire

VS.

Competing Conduit

EXTREME FLEX CONDUIT (see page 23 for size reference table)

Extreme Flex Conduit is designed for robotic welding applications requiring a high degree of mobility and flexibility. It features the same low friction elliptical wire spring liner as the Extra Flexible conduit, only with a single spatter-resistant outer jacket to provide more flexibility. Extreme Flex conduit is the ideal choice for robotic weld cells with a tight space between the wire source and the robot.

► Sold in pre-cut lengths with attached connectors, fittings are available for both Wire Wizard® or Panasonic® style quick disconnects as well as threaded disconnects

► Suitable for steel wire sizes up to .052 (1.3mm)

► Polymer strain reliefs included on all pre-cut lengths for enhanced strength at connection points

Ideal for Tight Spaces in Robotic Weld Cells

EXTREME FLEX CONDUIT
Shown as cut length with connectors and strain reliefs

FC-E CONNECTOR ASSEMBLY

FC-E Conduit
Reinforcement Tube
Coupler Fitting
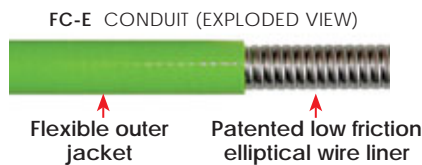
FC-E CONDUIT (EXPLODED VIEW)

Flexible outer jacket
Patented low friction elliptical wire liner

POLYMER STRAIN RELIEF
Included on all pre-cut lengths

P/N	DIMENSIONS	CONNECTORS
FC-E	.241 ID (6.1mm) x .440 OD (11.2mm)	See Below

FC-E CONDUIT CONNECTOR OPTIONS FOR PRE-CUT LENGTHS
Connectors are included on all pre-cut lengths

P/N	DESCRIPTION
A-16M-P1	Male connector for Wire Wizard® quick disconnect
A-16M-P2	Male connector for Panasonic® style quick disconnect
A-11E-2	Swaged threaded connector for A-16M-P1 or A-16M-P2
A-11E-2-3	Reinforcement tube for coupler fitting
A-11E-1A	Coupler fitting for threaded disconnects
A-11E-1B	Nut for attachment to threaded disconnects (inc. w/A-11E-1A)

SAMPLE CONDUIT RUN
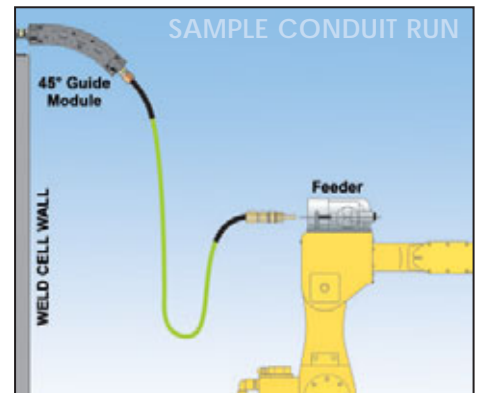
FC-E Conduit in weld cell with short distance between robot and wall

FC-E PRE-CUT CONDUIT*
with Swaged Fittings & Polymer Strain Reliefs (both ends) for Wire Wizard® Disconnects

P/N	LENGTH
FCE-3.0-WW	118" – 9.8 ft (3m)
FCE-5.0-WW	197" – 16.4 ft (5m)
FCE-7.5-WW	295" – 24.6 ft (7.5m)
FCE-10.0-WW	394" – 32.8 ft (10m)

FC-E PRE-CUT CONDUIT*
with Swaged Fittings & Polymer Strain Reliefs (both ends) for Panasonic® Disconnects

P/N	LENGTH
FCE-3.0-P	118" – 9.8 ft (3m)
FCE-5.0-P	197" – 16.4 ft (5m)
FCE-7.5-P	295" – 24.6 ft (7.5m)
FCE-10.0-P	394" – 32.8 ft (10m)

FC-E PRE-CUT CONDUIT*
with Screw-on Fittings & Polymer Strain Reliefs (both ends) for Threaded Disconnects

P/N	LENGTH
FCE-3.0-A	118" – 9.8 ft (3m)
FCE-5.0-A	197" – 16.4 ft (5m)
FCE-7.5-A	295" – 24.6 ft (7.5m)
FCE-10.0-A	394" – 32.8 ft (10m)

A-16M-P1
Wire Wizard® style fitting included with **-WW** pre-cut FC-E conduit

A-16M-P2
Panasonic® style fitting included with **-P** pre-cut FC-E conduit

A-11E-1A & A-11E-1B
Threaded disconnect fitting included with **-A** pre-cut FC-E conduit

Replace "**-WW**" part # with "**-WP**" for A-16M-P1 fitting on one end & A-16M-P2 on the other

Custom pre-cut lengths available, contact customer service for details. All pre-cut lengths of FC-E conduit include polymer strain relief at both ends

CONDUIT CONNECTORS

E-Z FEED™ 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
	A-10HP	A-10RP	
	A-10C-H-SR	A-10R-SR	
	A-10C-H-SRL		

Use A-6HD if connecting to an HD style disconnect, use A-6 for all other disconnects

See page 26 for replacement ferrules for compression style connectors.

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

EC-3-R Connectors

Part No.	Connector
A-16F-3	Self Threading (1/8″ NPT-F) - Steel
A-16F-3B	Self Threading (1/8″ NPT-F) - Brass
A-10C-S	Compression (Ferrule)

EC-4-R Connectors

Part No.	Connector
A-16F-4	Self Threading (1/4″ NPT-F) - Steel
A-16F-4B	Self Threading (1/4″ NPT-F) - Brass
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)

EC-5 Connectors

Part No.	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

EC-6 Connectors

Part No.	Connector
A-16F-6	Self Threading (1/2″ NPT-F)
A-6 (or A-6HD) & A-9	Combination Compression

Extra Flexible Conduit Connectors

FC-X Connectors

Part No.	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

FC-XH Connectors

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

FC-XH-LW Connectors

A-6HD (or A-6)/A-9	Combination Compression
A-11XH-LW	Swaged Connector

FC-X-SW Connectors

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

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**

WIRE TYPE	SIZE (INCHES/MM)	DISTANCE & RECOMMENDED CONDUIT					
		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 or E/EC-4-R
Steel	.035"/0.9 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Steel	.040"/1 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Steel	.045"/1.1 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Steel	.052"/1.3 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/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	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R
Cored - Steel	.045"/1.1 mm	EC-4-R/FC-X	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R
Cored - Steel	.052"/1.3 mm	EC-4-R/FC-X	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R	EC-4-R/FC-X	FC-X or E/EC-4-R
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 or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Stainless	.045"/1.1 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Stainless	.052"/1.3 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/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 or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Silicon Bronze	.035"/0.9 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R
Silicon Bronze	.045"/1.1 mm	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/EC-4-R	EC-4-R	FC-X or E/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

Note: FC-E Extreme Flex conduit is recommended over FC-X for robotic applications with tight spaces.

MODEL CM-F-3 DELUXE CABLE MANAGEMENT KIT
WizardGear™ Cable Management System installed on a Fanuc® 100ic Robot (includes 3/0 welding cable)

Positive power cable connection point

C.
CM-F-2 option

B.

A.
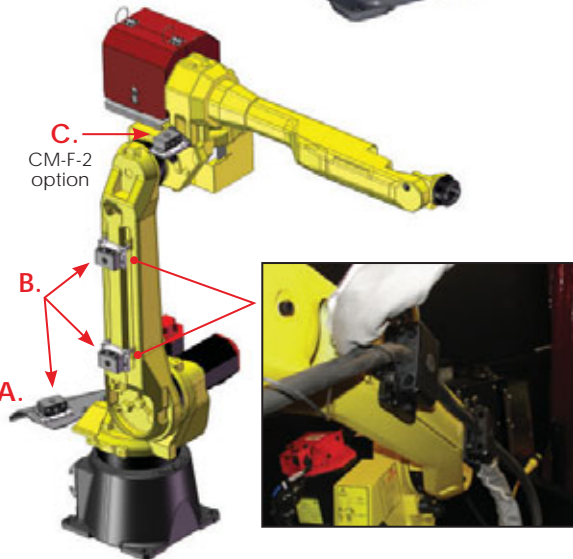
MODEL CM-F-1 BASIC CABLE MANAGEMENT KIT
Basic WizardGear™ Cable Management Kit includes robot base adapter (A), 3 cable clamp assemblies (B). Additional bracket (C) available for robot peripherals.

NEW

MODEL CM-F-3-MH CABLE MANAGEMENT KIT FOR ROBOTS WITH PART GRIPPERS
Includes CM-F-3 kit components with an additional hose assembly for gripper control cables.

WIZARDGEAR
CABLE MANAGEMENT

ROBOT CABLE MANAGEMENT KITS

The new **WizardGear™** line of robot cable management products provides organization, support and protection for all lines and cables attached to robots. Protect cables from damage that can cause unnecessary downtime and costly repairs. *Using zip ties or other poor methods of attachment can even void the warranty on your control cables.* Cable organizers are currently available for Fanuc® robots and more are in development for others. Custom cable management systems also available.

► **Provides organization, support and protection** for all lines and cables attached to robots

► Protects cables from damage that can cause unnecessary downtime and costly repairs

► **Approved by Fanuc®** for securing & protecting control cables – other attachment methods may void warranty on cables

► New model featuring two hose assemblies designed for welding robots with material handling peripherals, such as part grippers

► Cable & Conduit Balancers, as well as Spatter-Resistant Cable Sleeves also available

► Custom cable management systems can be developed for other robot models, contact customer service for details

CM-F-3 Back View

WIZARDGEAR™ ROBOT CABLE MANAGEMENT KITS

P/N	ITEM
CM-F-3	Deluxe Fanuc® Robot Cable Management Kit Includes protective tubing system and 3/0 welding cable
CM-F-3-MH	Fanuc® Robot Cable Management Kit for Robots with Torch/Part Gripper Combination Includes 2 protective tubing systems & 3/0 welding cable
CM-F-1	Basic Fanuc® Robot Cable Management Kit Includes base adapter and 3 cable clamp assemblies
CM-F-2	Optional Bracket for Robot Peripheral Cables

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

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

HEAVY DUTY BALANCERS WITH SHOCK STOP (-SH)
Prevents cable damage often caused by overtensioning

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
► Two I.D. sizes available - 2″ (51mm) & 4″ (102mm) in 1, 2, 3 & 4 ft (305, 610, 914 & 1219mm) 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-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)

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

Aluminized Sleeve (add -**A** to Part #)

Silicon Coated Sleeve (add -**S** to Part #)

Open sleeve showing velcro & zipper enclosure

NEW
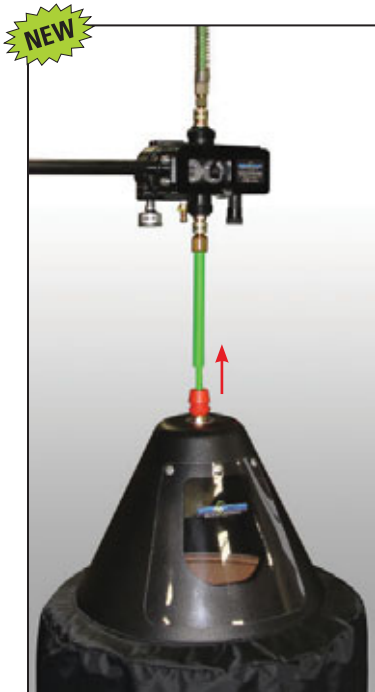
TELESCOPING CONDUIT QUICK DISCONNECT KIT
Model EC-TCD

Changing out wire drums is quick & easy with the new Telescoping Conduit Quick Disconnect Kit. Simply disconnect from the drum hood and slide the conduit up, then slide it back down to reconnect to the next drum of wire.

► Kit includes two linked pieces of our EC green polymer conduit with connector ends that can extend up to 5′ (1.5m)

► May be trimmed if shorter length is needed (see tools below)

► Compatible with ferrous & non-ferrous wires up to 3/32″ (2.4mm)

► Adapts to drums or wood reels

EC-DB
(see page 49)

EC-TCD Shown with included connector ends *(trimmed down from original length)*

EC-TCD TELESCOPING CONDUIT DISCONNECT KIT
Shown in use with drum & the Wire Pilot® Feed Assist *(trimmed to shorter length)*

EC-CUTTER
(see page 49)

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

2.0 WIDE (50.8mm)

.875 THRU (22.2mm)

4.75 (120.6mm)

.3125 (7.9mm) THRU

1/4" NPS

A-14B

A-14BK

1.5 (38.1mm)

7/8″–14
1/4" NPS   1/4" NPS
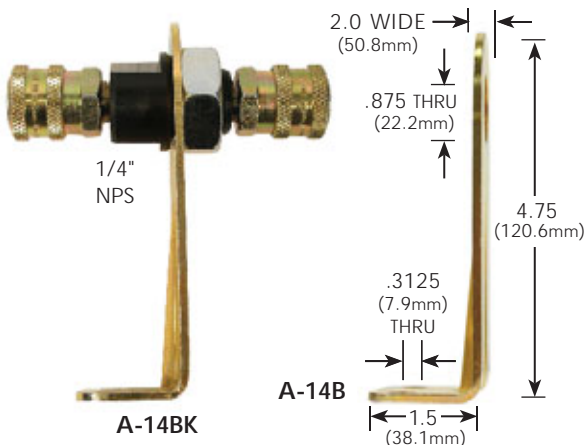
A-14 BULKHEAD

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

A-14KIT

A-14CM
Bulkhead Cage Mount Kit

ADAPTER FITTINGS

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

HEX NIPPLES

A-6	A-15	A-16M-ST	A-17	A-18	A-19	A-20	A-21	A-23
1/2" NPT-F	1/2" – 20 (SAE)	1/4" NPT-M	1/4" NPT-F x 3/8" NPT-M	1/4" NPT-F x 1/2" NPT-M	1/4" NPT-M x 1/4" NPT-M	1/4" NPT-M x 3/8" NPT-M	1/4" NPT-M x 1/2" NPT-M	3/8" NPT-M BSPP-M

A-6HD 1/2" NPT-F (FC-XH-LW)
A-15-1 7/16" – 20 (SAE)
A-15-2 9/16" – 18 (SAE)
A-16M-ST-HD 3/8" NPT-M

HEX BUSHINGS

Miller Inlet Guide

U-005 Quick Disconnect Insulator
Fits all disconnects except A-3HD & A-4HD

QUICK DISCONNECTS

A-4-ST or A-4-ST-I (inc. U-005)	A-5	A-4S	A-1A-B	A-3	A-3HD	A-4HD
1/4" NPT-M Use with Standard Inlet Guide (for brass, request **A-4 or A-4-I**)	1/2" NPS-M	1/2" – 20 (Nut & Washer Included)	3/8" Clearance for Miller Inlet Guides	1/4" NPT-F* *See pg 30 for thread options	3/8" NPT-F	3/8" NPT-M (for FC-XH-LW)

STANDARD INLET GUIDES

A-2E	A-1E	A-1H	A-1LN (Delrin) A-1LN-A (Aluminum) A-1LN-LW (Lg. Wire) Lincoln	A-1M	A-1PA	A-1OTC	PAWFS-12
1/4" NPT-F ESAB 4-48	1/4" NPT-F ESAB All	1/4" NPT-F Hobart	1/4" NPT-F	1/4" NPT-F Miller	1/4" NPT-F Panasonic	1/4" NPT-F OTC/Daihen	1/4" NPT-M Miller (75)
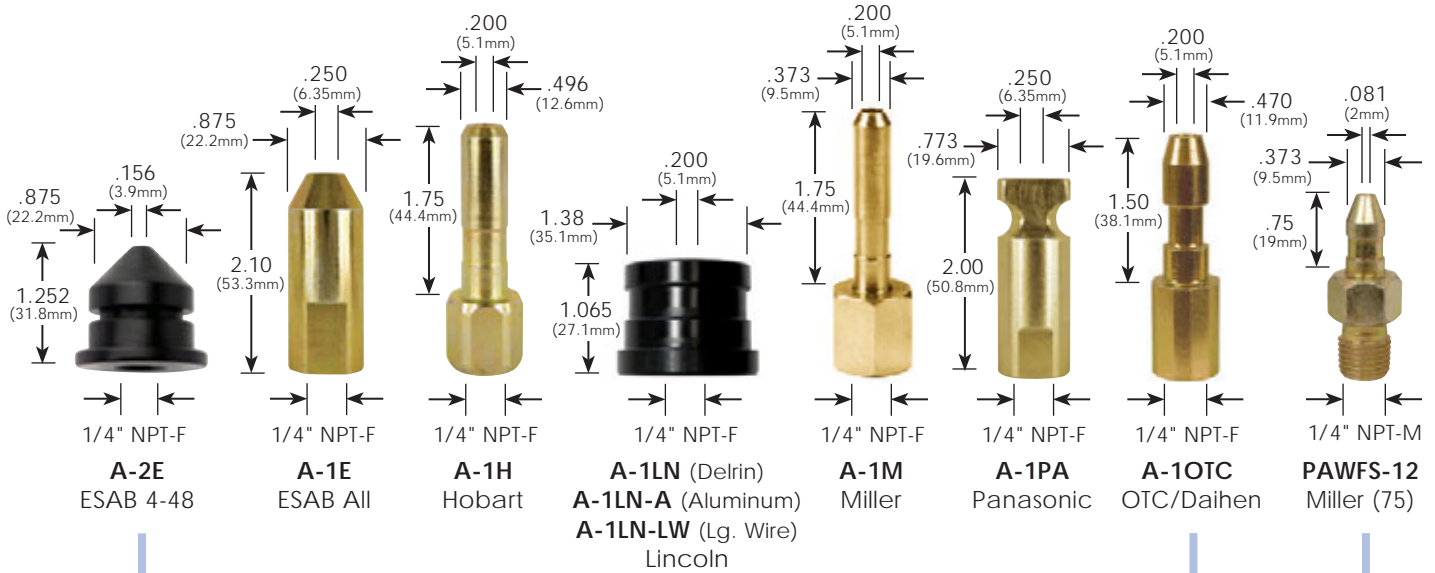
Use **A-4-ST** (1/4" NPT-M) with fittings above for quick disconnect capability or (brass **A-4** quick disconnect also available)

A-3 1/4" NPT-F
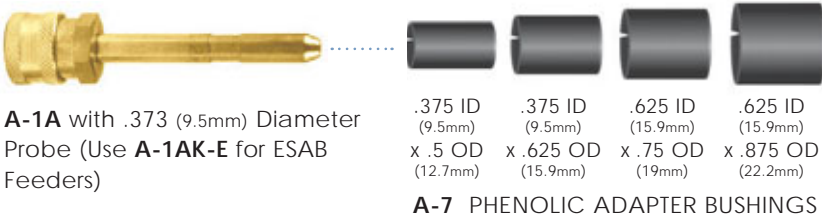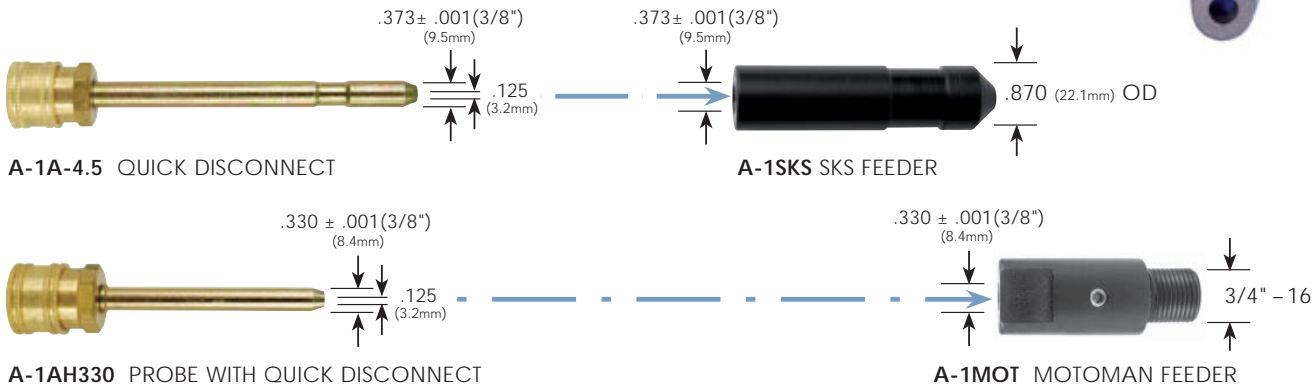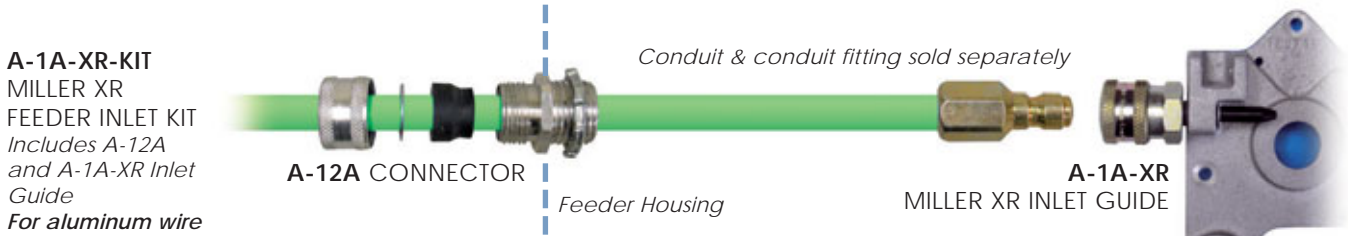
E-Z FEED™ CONNECTORS

ADAPTERS FOR FEEDER INLET GUIDES

E-Z FEED™ CONNECTORS

Configurations shown are just for demonstration purposes only. Please refer to the **Cross-Reference Table** on page 30 for a complete parts listing for your particular wire feeder.

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

Conduit & conduit fitting sold separately

A-12A CONNECTOR

Feeder Housing

A-1A-XR
MILLER XR INLET GUIDE

.373± .001(3/8")
(9.5mm)
.125
(3.2mm)

.373± .001(3/8")
(9.5mm)

.870 (22.1mm) OD

A-1A-4.5 QUICK DISCONNECT

A-1SKS SKS FEEDER

.330 ± .001(3/8")
(8.4mm)
.125
(3.2mm)

.330 ± .001(3/8")
(8.4mm)

3/4" – 16

A-1AH330 PROBE WITH QUICK DISCONNECT

A-1MOT MOTOMAN FEEDER

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

.375 ID
(9.5mm)
x .5 OD
(12.7mm)

.375 ID
(9.5mm)
x .625 OD
(15.9mm)

.625 ID
(15.9mm)
x .75 OD
(19mm)

.625 ID
(15.9mm)
x .875 OD
(22.2mm)

A-7 PHENOLIC ADAPTER BUSHINGS

UNIVERSAL INLET KIT Model A-1AK

▶ Five piece kit includes **A-1A** probe & four **A-7** phenolic adapter bushings for stable and durable performance

▶ Will support the use of a variety of wire feeders

LINCOLN SERVO INLET GUIDES

▶ Designed for use with Lincoln Servo Torch

▶ Ideal for all **aluminum & steel** applications

▶ Inlet guide connects to **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

Inlet Guide without Disconnect

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

A-2LNIC-AK-QD
Probe Length:
0.834" (21mm)

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

A-2LNIC-AK
Probe Length:
0.834" (21mm)

LINCOLN ELECTRIC® SAW FEEDER INLET/OUTLET

> For 10S, NA-3 NA-4 or NA-5 wire feeders

A-2LN-10S
Inlet Adapter

A-2LN-10S-1
Outlet Adapter
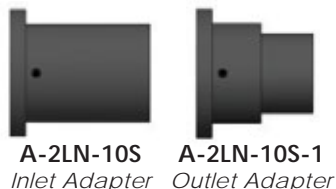
LINCOLN ELECTRIC® TWIN ARC FEEDER INLET
Model A-2NA-5

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

End View

INLET GUIDES WITH QUICK DISCONNECTS

E-Z FEED™ CONNECTORS

► 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
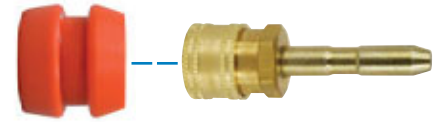Lincoln NA-3
& NA-5 Feeder

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-2PA-QD
Panasonic
Wire Feeder

A-1B-C2
Lincoln
Synergic 7

A-1CL
Cloos

A-1OTC-FX
OTC

A-1E-A
ESAB RoboFeed
3004 Series

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
CEA S.p.A.	ALL	A-1AK
Cebora S.p.A.	ALL	A-4S
CK Systematics	MP175 and S4165	A-4S
Cloos	Most Models	A-1CL
Cybo Robotics	Most Models	A-4S
ESAB	ALL (except 4-48)	A-1AK-E
	4-48	A-2E & A-4-ST
	Aristo 30 Series	A-4S
	RoboFeed 3004 Series	A-1E-A
Fanuc	Servo Torch	A-3QDF-6 & A-23
Fronius	Feeder without Set Screw	A-1FRO-B
	Feeder with Set Screw	A-1FRO
	Feeder with Stripped Set Screw	A-2FRO
Hobart	Series 27	A-1H & A-4-ST
		A-1A, A-1A-4.5
	Models with 3/4"-16 Thread	A-1A & A-22
		A-1AH330 & A-1MOT
Kobelco	Male Threaded Inlet 1/2"-20	A-3QDF-3
Lincoln Electric	4R100 and 4R220	A-1LN & A-4-ST
	PF Series, inc. PowerFeed® 84	A-1LN & A-4-ST
	LN-7, LN-9, and LN-25	A-1A
	LN-8	A-1H & A-4-ST
	NA-3 and NA-5	A-1NA-5/A-1NA-5-SW-ADP
	Synergic 7	A-1B-C2
	LF-72	A-1LN & A-4-ST
	LF-74	A-1LN-EK
	Series 10 (10M, DH-10, LN-10)	A-1LN & A-4-ST
	Servo Torch	A-2LN-AK

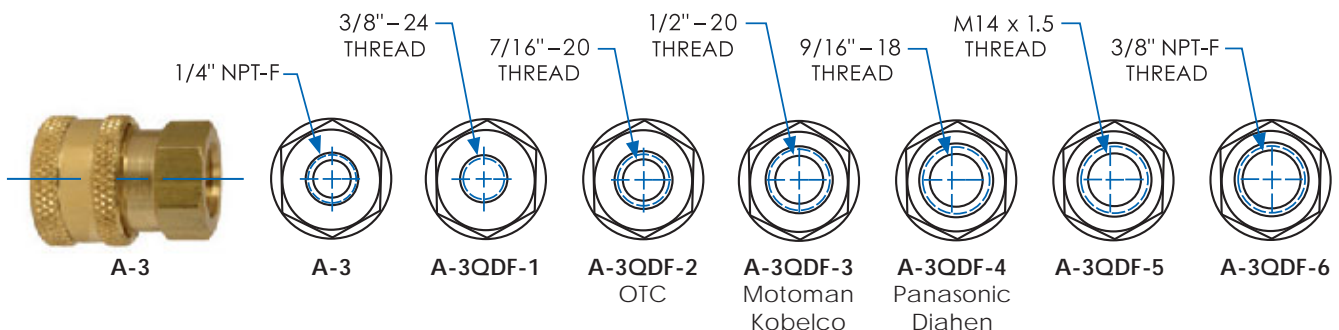| FEEDER MANUFACTURER	FEEDER TYPE	WIRE WIZARD® INLET GUIDE P/N
Miller	Most Models	A-1A-C, A-1M & A-4-ST, or A-1A
	22A and 24A	A-1AK
	Auto Axcess	A-1A-C
	Series 74 and R115*	A-1A-4.5 or A-1A-C
	Measure required probe length prior to ordering.	
	Series 75	PAWFS-12 & A-3
	RAD 400	A-1LN-S-12
	XR Series (for alum. wire)	A-1A-XR-KIT
MK Products	Cobramatic	A-1AK
Motoman	Female Inlets	A-1AH330 & A-1MOT
	Male Threaded Inlets	A-3QDF-3
	Hyper Feeder	A-1MOT-HP
OTC/ DAIHEN	Male Threaded Inlet 7/16"-20	A-3QDF-2
	Male Threaded Inlet 9/16"-18	A-3QDF-4
	FX Style	A-1OTC-FX
	D Series	A-3QDF-4
	AF4-001	A-3QDF-2
	OTC	A-1OTC & A-4-ST
Panasonic	Female Inlet: .77 OD (19.6mm)	A-1PA & A-4-ST
	Female Inlet: .57 OD (14.5mm)	A-2PA-QD
	Male Threaded Inlet	A-3QDF-4
Pow Con	Most Models	A-1AK
SKS	Most Models	A-2SKS
	Older Models	A-1SKS & A-1A-4.5
Thermal Arc	17A	A-1AH330 & A-1MOT

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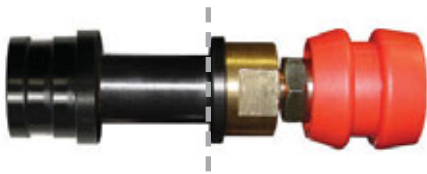
► Extends connection to the disconnect at the feeder
► Kit includes A-1LN inlet guide, extension adapter and quick disconnect with insulator

FEMALE THREADED QUICK DISCONNECT REFERENCE FOR INLET GUIDES

1/4" NPT-F — **A-3**
3/8"−24 THREAD — **A-3**
7/16"−20 THREAD — **A-3QDF-1**
1/2"−20 THREAD — **A-3QDF-2** OTC
9/16"−18 THREAD — **A-3QDF-3** Motoman Kobelco
M14 x 1.5 THREAD — **A-3QDF-4** Panasonic Diahen
3/8" NPT-F THREAD — **A-3QDF-5**
A-3QDF-6

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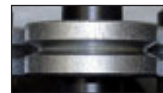
SMALL WIRE STRAIGHTENERS MODELS WSS-100 & WSS-100-A

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

End View

WIRE

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

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

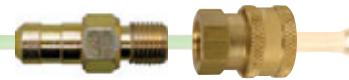**Fittings may be used as inlets or outlets depending on setup*

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)*

A-16M-ST Attaches to QD

A-4 Quick Disconnect

A-1LN Inlet Guide

LARGE WIRE STRAIGHTENER

MODEL WSL-100

For Wire Sizes 3/32″ (2.4mm) & 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)*

WS-10S
Outlet Adapter for Lincoln 10S Feeder (Inlet Adapter pt. # **WS-LW**), inc. ceramic

A-16M-ST-HD Attaches to QD

A-4HD Quick Disconnect

A-1LN-LW Inlet Guide

WIRE PILOT®
FEED ASSIST

PROUDLY MADE
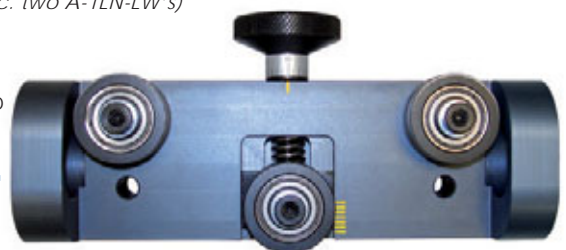
WIRE PILOT® PNEUMATIC WIRE FEED ASSIST

The **Wire Pilot® Pneumatic Feed Assist** provides an economical way to help your wire feeder move wire through the conduit in applications where the wire must have minimal friction, travel a long distance or where the workload on the wire feeder must be reduced. When combined with the Feed Assist allows the ultimate flexibility when it comes to wire delivery and **wire packages can be located 150 ft (46m) or more away from the arc.** Using only compressed air, this unit easily relieves several pounds of pulling force from the feed motor. Adjustable torque setting **prevents "bird nesting,"** commonly occurring in aluminum or light wire applications. Compatible with ferrous & non-ferrous wire. Oil-free & oiled motor option. *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 feeding issues with large diameter wire used for SAW

▶ Adapts to other Wire Wizard® wire delivery equipment

Guide Module Option

Feed Assist Option

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

WGM-PFA-STAND-4
Spool option for WGM-PFA-STAND

PFA-WM
Remote Mounting Bracket
For surface mounting

PFA DRIVE ROLLS
(sold individually)
All PFA drive rolls are **hard chromed & polished** for maximum performance and durability.

WIRE PILOT® FEED ASSIST & ACCESSORIES

ITEM	PART NO.
Wire Pilot® Feed Assist with oil-free motor, inc. PFA-FR Filter/Regulator	PFA-LM-15
Wire Pilot® Feed Assist with oiled motor, inc. PFA-FRL Filter/Regulator/Lubricator	PFA-LM
Inlet/Outlet Quick Disconnect (includes insulator) for PFA-LM-15	A-4-ST-I
Inlet Guide with Quick Disconnect for PFA-LM	A-1B-C
Inlet Guide w/Ceramic Inlet for PFA-LM-15	PFA-35-15
Large Wire Inlet Guide w/Ceramic Inlet for PFA-LM-15	PFA-64
Inlet Guide with 3/8"-18 NPS-F threads (connects to A-4HD disconnect) for PFA-LM	PFA-34
Inlet Guide w/Ceramic Inlet for PFA-LM	PFA-35
Drum Adapter for PFA-LM-15	PFA-WT-DA
Drum Adapter for PFA-LM	PFA-DA
Turn Table Adapter Kit for Wire Pilot® Feed Assist	PFA-WWTT
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® Guide Module Mounting Adapter (for PFA-LM-15 only)	WGM-PFA-AK-15
Wire Pilot® Swivel Kit for Wire Guide Modules *(see pages 14-17)*	WGM-PFA-SW-15
24-volt Pneumatic Solenoid with Cable	PFA-SK
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

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

WIRE PILOT® FEED ASSIST APPLICATION EXAMPLES

A-4-ST Inlet Guide

See Feeder Inlet Guide options on pages 27-30

Feeder

Extra Flexible Conduit 15' (4.6m)
Always use Green Polymer Conduit for aluminum wire

Polymer Strain Relief
or
Steel Strain Relief

Strain Relief options on page 22

EXAMPLE WITH FEED ASSIST MOUNTED ON DRUM HOOD

PFA-SR Silencer/ Reclassifier (optional)

← **A-4-ST-I Quick Disconnect**

PFA-LM-15 Feed Assist (Oil-free model)

PFA-FR Filter/ Regulator (included)

PFA-SK Solenoid 24v Kit (optional)

PFA-WT-DA Drum Adapter Kit

PFA-RK Wire Retract Kit (optional)

Drum Hood

EXAMPLES FOR SUBMERGED ARC WELDING

WGM-LW-1 Large Wire Guide Modules
See pages 14-17

WWA-12-2 Vertical Dereeler with Feed Assists
See page 13

Dual Feed Assists with Mechanical Turn Table
See page 10

WGM-M-1* Mini 90° Guide Module

WGM-A5

Green Polymer Conduit

Up to 150 ft (46m) or more!

WGM-1* 45° Module

WGM-PFA-AK-15 Guide Module PFA Mount

PFA-QD → **PFA-LM-15**

WGM-A5 and WGM-A-10BK Bracket

WGM-A5

ROBOTIC WELDING EXAMPLE WITH FEED ASSIST MOUNTED ON WGM-PFA-STAND

(long distance wire feeding application)

See Inlet Guides, pg 27-30

EC-TCD Telescoping Conduit Disconnect Kit

PFA-FR *(included w/ PFA)*

— **Drum Hood with Direct Pull Kit**
See pg 4-5

Weld Cell Wall

WGM-PFA-STAND

— **Dereeling Arm**
See pg 11-12

or

Optional WizardGear™ Robot Cable Management System

FC-E Extreme Flex Conduit
(for ferrous wires)
or
EC-4-R Polymer Conduit
(for non-ferrous wires)

Conduit style will vary based on wire size & type. See page 23 for reference chart.

Drum w/Dolly   **Wood Reel w/Dereeling Arm**

*Guide Modules in this application also require WGM-ECK-50 End Cap Kits

PFA-WT Feed Assist Mounted on Drum Hood

PROUDLY MADE

WIRE PILOT® ALL ENVIRONMENT FEED ASSIST

The **Wire Pilot® All Environment Wire Feed Assist** has all the features and benefits of the original Wire Feed Assist with a weatherproof, 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

Ideal for Shipyards!
and other outdoor applications

## ALL ENVIRONMENT DRUM CART PACKAGES

Designed to withstand the elements, the Wire Pilot® outdoor drum package is ideal for shipyards as well as other outdoor applications, such as structural welding. With the Feed Assist, bulk **wire drums may be located 150 ft (46 m) or more away from the welding area.**

▶ Includes cart with all terrain wheels or fork pockets, weatherproof fittings & drum cover

▶ Portable – 27″ x 34.5″ (686 x 876mm) footprint

▶ Powder coated, all steel construction

▶ For 20 to 21″ round bulk drums

▶ Package may be customized for your welding application, contact customer service for details

PFA-WT-DC
Drum Cart Package
with Wheels

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

WIZARD BOOM!™

FLEXIBLE WELDING BOOMS BUILT FOR FLAWLESS WIRE DELIVERY

NEW

PROUDLY MADE
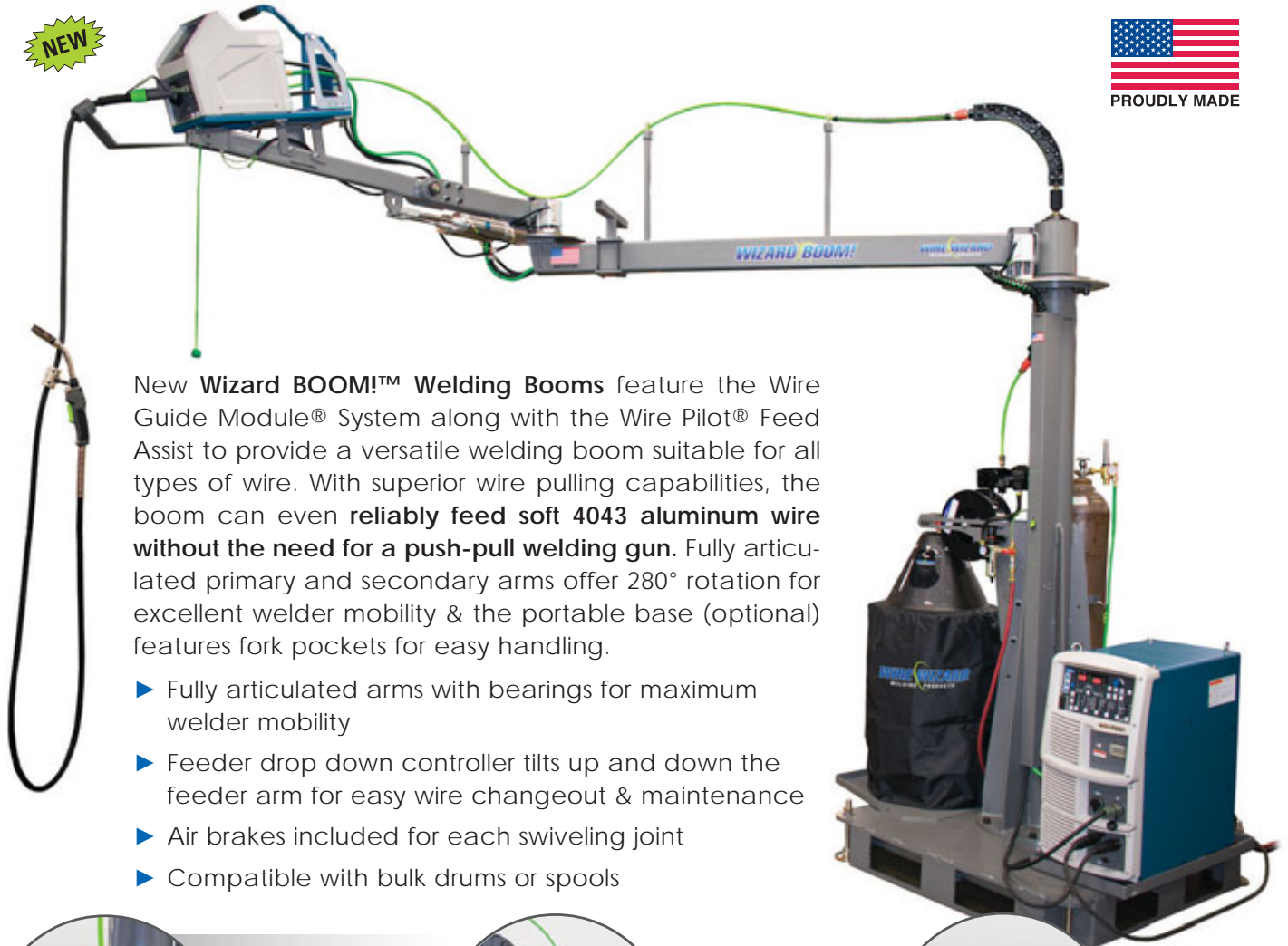
New **Wizard BOOM!™ Welding Booms** feature the Wire Guide Module® System along with the Wire Pilot® Feed Assist to provide a versatile welding boom suitable for all types of wire. With superior wire pulling capabilities, the boom can even **reliably feed soft 4043 aluminum wire without the need for a push-pull welding gun.** Fully articulated primary and secondary arms offer 280° rotation for excellent welder mobility & the portable base (optional) features fork pockets for easy handling.

► Fully articulated arms with bearings for maximum welder mobility

► Feeder drop down controller tilts up and down the feeder arm for easy wire changeout & maintenance

► Air brakes included for each swiveling joint

► Compatible with bulk drums or spools

Wire Pilot® Feed Assist
Creates push-pull system at the wire source for friction free wire delivery (all-pneumatic).

Drop-down Wire Feeder
For easy wire change-out and maintenance. No ladder required!

Wire Wizard® Guide Modules
Eliminates points of wire friction on corners.

ITEM	PART NO.
Wizard BOOM!™ with Pedestal Mount Package, 12' (3.7m) Arm and Wire Pilot® Wire Feed Assist	WWB-P-12-1
Wizard BOOM!™ with Pedestal Mount Package, 12' (3.7m) Arm (no Wire Feed Assist)	WWB-P-12-2
Wizard BOOM!™ with Pedestal Mount Package, 15' (4.6m) Arm and Wire Pilot® Wire Feed Assist	WWB-P-15-1
Wizard BOOM!™ with Pedestal Mount Package, 15' (4.6m) Arm (no Wire Feed Assist)	WWB-P-15-2
Wizard BOOM!™ with Column Mount Package, 12' (3.7m) Arm and Wire Pilot® Wire Feed Assist	WWB-C-12-1
Wizard BOOM!™ with Column Mount Package, 12' (3.7m) Arm (no Wire Feed Assist)	WWB-C-12-2
Wizard BOOM!™ with Column Mount Package, 15' (4.6m) Arm and Wire Pilot® Wire Feed Assist	WWB-C-15-1
Wizard BOOM!™ with Column Mount Package, 15' (4.6m) Arm (no Wire Feed Assist)	WWB-C-15-2
Portable Base for Wizard BOOM! System (includes tray for wire drum and gas cylinder holder)	WWB-BASE

All booms include air brake system, wire feeder mounting plate, welding gun holder and standard installation

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

► Neutral pH level inhibits multi-metal corrosion

► Will not evaporate, keeping lines & nozzles clog-free

► Contains biocide, providing longer shelf life in warm climates

► **Available in concentrated form in 5 gallon buckets**
1 bucket makes 55 gal. anti-spatter, ideal for overseas shipping

Drum Pump & Drum Wrench for 55 Gal.

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
275 gal Bulk Tote	EAS1000-CT
5 gal Concentrate	EAS1000-C-CON
55 gal Concentrate	EAS1000-C-CON-55
Manual Drum Pump (55 gal)	EAS1000-DP
Drum Wrench (55 gal)	EAS1000-DW

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 Magic® HD	
ITEM	PART NO.
32 oz Spray Bottle	EAS1000-HDC32
1 gal Bottle	EAS1000-HDC1
5 gal Container	EAS1000-HDC5
55 gal Drum	EAS1000-HDC

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
275 gal Bulk Tote	EAS1000-BCT

Anti-spatter samples available upon request

RUST INHIBITOR ADDITIVE PART #EAS1000-RI

NEW

Help **prevent flash rusting** with our Rust Inhibitor additive formulated for mixing with either Blue Magic® or Blue Chill® Anti-spatter. 1 gallon (3.8 L).

► Helps eliminate flash rusting, reducing prep time for part finishing

► One gallon is enough to mix up to 55 gallons of anti-spatter (mixing ratio depends on application)

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 75 PSI

► 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 75 PSI)

► Less space required due to one feeding source

ANTI-SPATTER MULTI-STATION DISPENSING SYSTEM SETUP

DMK

A. B. D. G.

Refilling Station for spray bottles

C. F.

E. I. H.

Reaming Station in cell #1

Reaming Station in cell #2

Reaming Station in cell #3

Blue Magic® or Blue Chill™ 55 Gal.

Plumbing components for multi-station anti-spatter dispensing:

A. DMK (or 5GMK) Manifold Kit

B. 1J-352-007-01 3/8″ Spatter-Resistant Tubing

C. 40021-04 1/4″ Ball Valve

D. 2U32013 1/4″ NPT x 3/8″ Branch Tee

E. 1J-351-01 1/4″ Spatter-Resistant Tubing

F. 2U01008 1/4″ x 1/4″ NPT Push-in

G. 2U31013 1/4″ NPT x 3/8″ Elbow

H. EAS1000-FS Sprayer/Bottle Refill Spigot

I. 5454K87 1/4″ NPT Bulkhead Connector (required for Torch Wizard®)

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.

LJ-007 ANTI-SPATTER BOWL
Bottle for picture purposes only

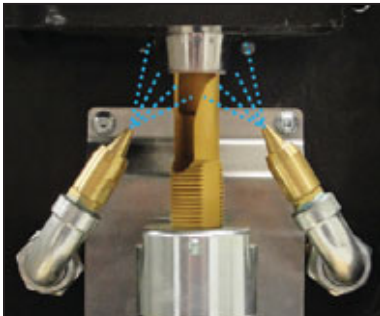*Weld Cell Wall*

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.

TS-H-12

EL-NCS-AC-16
TORCH WIZARD®
with integrated
anti-spatter spray
unit & wire cutter

PROUDLY MADE

TORCH WIZARD® NOZZLE CLEANING STATION

New & improved design for quick integration! **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 is applied evenly through two spray jets, allowing for simultaneous reaming & spraying – reducing cycle time by up to 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 up to 50%**

► **Plug & Perform** - easily integrates into existing configurations commonly used with other reaming stations (5-pin connection)

► Clog-free anti-spatter spray jets evenly coat nozzle & tip

► **High torque motor** prevents stalls, reducing downtime

► No circuit boards and fewer moving parts means **more reliable operation and lower maintenance costs**

► Adjustable v-block with four points of contact on the nozzle

► Enclosed operating environment keeps weld cell clean

► Easy-open covers provide quick access to internal components

► **TiN coated reamer blades** offer efficiency and longevity

► **EtherNet or DeviceNet capable** (with option)

► Pneumatic Wire Cutters & Tool Center Point Adapters available

► Economical all-pneumatic station also available (see page 39)

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

Simultaneous reaming and spraying
can cut cycle time in half!

See page 41 for full parts list

Torch Wizard® Specifications

TOP VIEW	SIDE VIEW	FRONT VIEW (W/O COVER)

10.81" (274.6 mm)

Carry Handle
for easy mobility

11.35" (288.4 mm)

Adjustable v-block for
all nozzle diameters

Wire Cutter
(optional)

Manual Operation
(for easy setup/
testing)

Location for optional
Tool Center Point

Durable
Stainless
Steel
Cover

20.45" (519.4 mm)

Power/Control Port
(EtherNet/DeviceNet
optional on select models)

Reams & sprays
simultaneously
from sprayers

Anti-spatter
Reservoir

EL-NCS-TCP-F-R
Optional TCP
Mount

Catch
Tray

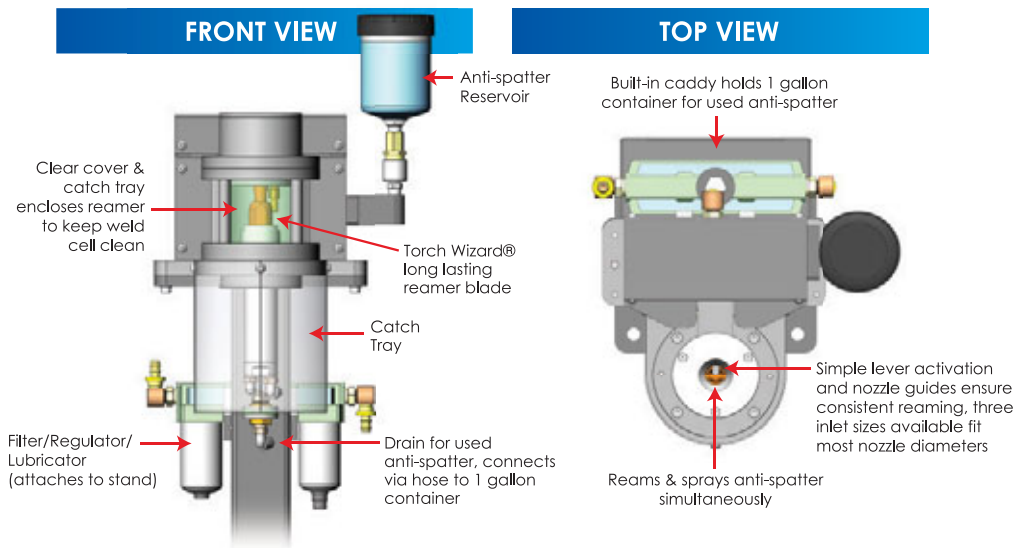## TORCH WIZARD® AP AII PNEUMATIC REAMING STATION
Models EL-NCSP, EL-NCSP-A & EL-NCSP-AC

The new **Torch Wizard® AP** Nozzle Cleaning Station features reliable all pneumatic operation, making setup and operation a breeze! Three nozzle inlets are available to accommodate virtually all torch sizes, and adjustable nozzle guides ensure consistent reaming every time. An enclosed operating environment with catch tray and drain keeps the weld cell clean. The built-in caddy holds a one gallon container for used anti-spatter. **Two year warranty with exclusive use of Blue Magic® / Blue Chill® anti-spatter.**

▶ **All pneumatic operation,** ideal for either robotic or hand-held welding applications

▶ Three inlet sizes with adjustable guides for nozzles up to 1 1/16" (27mm) in diameter

▶ Sprays & reams simultaneously, **reducing cycle time by up to 50%**

▶ Enclosed operating environment keeps the weld cell clean

▶ Available with or without anti-spatter sprayer or optional wire cutter

PROUDLY MADE

EL-NCSP-A
Shown with EL-NCSP-STAND option

FRONT VIEW	TOP VIEW

Anti-spatter Reservoir

Built-in caddy holds 1 gallon container for used anti-spatter

Clear cover & catch tray encloses reamer to keep weld cell clean

Torch Wizard® long lasting reamer blade

Catch Tray

Simple lever activation and nozzle guides ensure consistent reaming, three inlet sizes available fit most nozzle diameters

Filter/Regulator/ Lubricator (attaches to stand)

Drain for used anti-spatter, connects via hose to 1 gallon container

Reams & sprays anti-spatter simultaneously

TORCH WIZARD® TA TANDEM ARC REAMING STATION
Model EL-NCS-A-TA-16

The **Torch Wizard® TA Tandem Arc** Nozzle Cleaning Station is specially designed for removing spatter build-up in tandem arc torches. Anti-Spatter is applied via the dual sprayers 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 tandem 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 41 for full parts list

PROUDLY MADE

EL-NCS-A-TA-16
TANDEM ARC CLEANING STATION

TITANIUM NITRIDE
TiN Coated for Maximum Durability

SINGLE FLUTE REAMER BLADES

DOUBLE FLUTE REAMER BLADES

TORCH WIZARD® 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 adapted to other major reaming station manufacturers. Sizes for all nozzle IDs & lengths available (see table on page 41).

► **TiN coating increases blade life**

► Single and double flute blades available in a variety of sizes for compatibility with all torch nozzle styles

► Cost effective replacement blades available for other reaming station manufacturers

INTEGRATED WIRE CUTTER
Included on AC and ACD Models

► Provides simple, automated way to cut wire sizes from .035 to .062

► Consistent wire stick-out provides accurate wire location

► Robust, hardened steel blade offers maximum wear resistance & extended life

► Fully integrated with the AC and ACD model reaming stations, no additional air or power cables required (except on the EL-NCSP-AC all pneumatic reamer, which requires 24v power)

Torch Wizard® Wire Cutter
Included on AC & ACD models.

STAND ALONE WIRE CUTTER
Model EL-NCS-WCS-SA-12

► Provides simple, automated way to cut wire sizes from .035 to .062

► Compact size allows mounting in the ideal location inside weld cell

► Requires 24v and standard 80-100 psi air supply

EL-NCS-WCS-SA-12
WIRE CUTTER (Stand Alone Model)

LARGE DIAMETER AND TANDEM WIRE CUTTER
Model EL-NCS-WCS-LW

► 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 O-1 hardened steel blade

► Requires 24v & standard 80-100 psi air supply

EL-NCS-WCS-LW
LARGE WIRE CUTTER
(EL-NCS-WCS-LW-1 excludes valving)

EVACUATION CHUTE FOR HIGH PRODUCTION APPLICATIONS
Model EL-NCS-EC

► Replaces standard catch pan for high volume welding applications

► Designed to empty spatter and other waste into 5 gallon buckets, requiring less maintenance for emptying

► Prevents potential damage to air motor and other components due to an overflowing catch pan

NEW

TORCH WIZARD® CLEANING STATIONS FULL PARTS LIST

ITEM	PART NO.
Reaming Station w/integrated anti-spatter spray	EL-NCS-A-16
Reaming Station w/integrated anti-spatter spray & wire cutter	EL-NCS-AC-16
Reaming Station w/integrated anti-spatter spray - 5-pin model for quick integration	EL-NCS-A-16-D
Reaming Station w/integrated anti-spatter spray & wire cutter - 5-pin model for quick integration	EL-NCS-AC-16-D
Reaming Station (TA) for Tandem Arc Torches, w/anti-spatter sprayer	EL-NCS-A-TA-16
All Pneumatic Station (AP), reamer only (specify nozzle diameter)	EL-NCSP
All Pneumatic Station (AP) with anti-spatter sprayer (specify nozzle diameter)	EL-NCSP-A
All Pneumatic Station (AP) with anti-sprayer & wire cutter (specify nozzle dia.)	EL-NCSP-AC
36" (914mm) Stand (custom heights available) for EL-NCS models	EL-NCS-STAND
36" (914mm) Stand (custom heights available) for EL-NCSP models	EL-NCSP-STAND
Filter/Regulator/Lubricator	EL-NCS-FRL-14
Testing and Diagnostic Box for EL-NCS A-16-D/AC-16-D Models	EL-NCS-TB-5
Testing and Diagnostic Box for EL-NCS A/AC/ACD Models	EL-NCS-TB
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
Integrated Wire Cutter (included on AC & ACD models)	EL-NCS-WCS-12
Stand Alone Wire Cutter	EL-NCS-WCS-SA-12
Evacuation Chute for High Volume Applications	EL-NCS-EC
DeviceNet Option	EL-NCS-ACD-DN
EtherNet Option	EL-NCS-ACD-EN
5 Pin, 20 ft Power/Control Cable (for EL-NCS-A-16-D & AC-16-D models)	EL-NCS-CC5-20-3
7 Pin, 20 ft Power/Control Cable (for EL-NCS-A-16 & AC-16 models)	EL-NCS-CC7-20-3
9 Pin, 20 ft Power/Control Cable (for some older & customized models)	EL-NCS-CC9-20-3

TORCH WIZARD® REAMER BLADES

ITEM	DIA	FLUTES	THREAD	HEIGHT	PART NO.
Reamer Blade	13mm	2	Female	2.558"	EL-NCS-13MM
Reamer Blade	13mm	1	Female	2.687"	EL-NCS-TL-13MMF
Reamer Blade	13mm	1	Female	2.433"	EL-NCS-TS-13MMF
Reamer Blade	15mm	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
Reamer Blade (AP Model) ⚡	1/2"	2	Female	2.558"	EL-NCS-500-A
Reamer Blade (AP Model) ⚡	5/8"	2	Female	2.217"	EL-NCS-625-A
Reamer Blade (AP Model)	15mm	2	Female	2.558"	EL-NCS-15MM-A

MALE THREADED REAMER BLADES *FOR OTHER REAMING STATIONS*

ITEM	DIA	FLUTES	THREAD	HEIGHT	PART NO.
Reamer Blade	13mm	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

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

STANDS AND TCP ADAPTERS

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

EL-NCS-TCP-F-R
Tool Center Point Adapter Mount
(excludes touch plate & point)

EL-NCS-STAND
36" (914mm) Stand for Torch Wizard®
*Order **EL-NCSP-STAND** for AP Model*

TESTING & DIAGNOSTIC BOX

Models EL-NCS-TB-5 (5-pin) and EL-NCS-TB (7-pin)

The Torch Wizard® Reaming Station Test Box is a recommended maintenance peripheral for periodically testing and fine tuning your reaming station. Functions include: Sink/Source, Motor Slide Up/Down, Nozzle Clamp, Anti-spatter Spray, Wire Cutter. Includes 110v AC unit and a 5-pin cable (use model EL-NCS-TB for 7-pin A/AC models).

⚡ *Blades compatible with PowerBall® Torch Consumables*

NEW

WELD CELL MONITORING AND OPTIMIZATION SYSTEM

OPTIMIZE WELD CELL PERFORMANCE & OEE

The new **Weld Central™** is a Process Optimization System that monitors and tracks key (time-stamped) process variables, including current, voltage, wire feed speed, gas flow & feed motor current. This information can be utilized for both process optimization and determining the weld cell **OEE (Overall Equipment Effectiveness).** Combined with the Wizard View™ software, the Weld Central™ is the ultimate weld cell performance monitoring system!

Sensor Module Options

Note: All sensors along with the controller and software are included in the complete kit (WC-1-KIT)

Wire Feed Sensor
Measures wire activity, including feed speed and total wire usage.

Voltage & Current Sensor
Measures arc voltage and amperage from the power source.

Gas Flow Sensor
Measures/monitors volume of gas used as CFH or LPM, gas surges & total gas used (can function as a totalizer). May also be used as a standalone tool for monitoring gas flow (see page 44).

Motor Current Sensor
Measures amperage draw on the feeder motor, which is used for detecting wire feeding issues.

Hardware Features

► Monitor robotic or semi-automatic weld cells through a PC or mobile device using the **Wizard View™** software, where collected data can be viewed, charted & exported in a user friendly web browser interface

► **Equipment agnostic** - utilizes sensors compatible with all brands of wire feeders and power sources

► **More than just a data acquisition system** - may be connected to a PLC to prevent costly weld quality issues

► **Four Active Outputs** that can activate an alarm or stop the welding process through the PLC:
- ▪ **Arc Stability:** Triggered when voltage, amperage, wire feed or gas flow exceed user defined thresholds
- ▪ **Weld Quality:** Triggered when voltage, amperage, wire feed & gas flow meet user-defined limits
- ▪ **Assembly Passed:** Triggered if data from all welds is within weld ID and assembly parameters
- ▪ **Assembly Failed:** Triggered when data does not meet the user-defined parameters for an assembly

► **Three Active Inputs** for resetting outputs, reset for new wire drum & reset for new gas canister (if applicable)

► Internal memory on controller **stores up to 4,000 weld summaries**

► Monitor a single torch or multiple torches through a network or mobile router with Wizard View™ software

Wizard View™ 2.0 Dashboard *(available Summer 2017)*

WELD CENTRAL MONITORING & DATA ACQUISITION SOFTWARE

Wizard View™ provides an easy to use interface for the Weld Central™ System that graphs and logs data, alerts, wire & gas usage and other key welding performance information. The software collects data from any torch with the Weld Central™ hardware installed. Simply browse to the desired torch to see a visual representation of the welding data along with the wire and gas usage information.

► Monitor, graph and export welding data to a CSV file

► Dashboard displays all welding data in an interactive chart and shows overview of the total number of welds, wire usage, gas usage, power usage & arc on time for a selected time frame

► Data may be displayed for each weld assembly and by weld schedule

► Logs and displays user defined alerts so problems can quickly be detected and resolved

► Provides much of the data necessary to determine weld cell OEE (overall equipment effectiveness)

System Architecture

PLC/Process Controller (robotic applications)

Weld Central Controller

Wireless Client (transmits data via wifi)

Local Server Hosting Database & Wizard View™ Software

Wire Feed Sensor

Gas Flow Sensor

Voltage & Current Sensor

Feed Motor Current Sensor

Weld Central Station #2

Weld Central Station #3

ITEM	PART NO.
Weld Central™ Complete Kit - All hardware, sensors & cables for one torch with Wizard View™ Software	WC-1-KIT
Weld Central™ Controller with Wizard View™ Software Package (required hardware & software)	WC-1-CB
Wire Feed Sensor	WC-1-WS
Voltage & Current Sensor	WC-1-VA
Gas Flow Sensor/Monitor	WC-1-GM
Feed Motor Current Sensor	WC-1-CS
I/O Cable for Connection to PLC/Controller (included in WC-1-KIT)	WC-1-WS-I/O

NEW

WC-1-GM
In-line Model
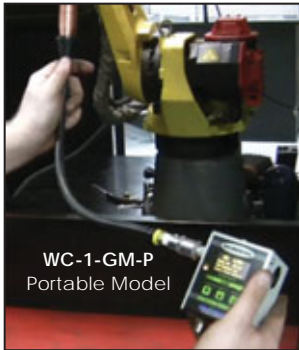
WC-1-GM-P
Portable Model

WELD CENTRAL™ GAS FLOW MONITOR

The **Weld Central™ Digital Gas Flow Monitor** provides an easy way to monitor shielding gas flow in robotic or semi-automatic welding applications. Available in both an in-line and portable version, it allows monitoring and totalizing incoming gas flow or measurement and verification of gas flow at the nozzle.

► In-line version can function as a gas totalizer and may also be connected to a PLC to warn or interrupt the welding process if an out-of-limits condition is detected

► Portable version includes hose and filter assembly that fits all standard nozzle sizes, along with a rechargeable li-ion battery that lasts up to 24 hours

► Digitally displayed flow rate of 5 to 255 SCFH (2.4-120 LPM) with 1 SCFH resolution in English or Metric units

► Pre-calibrated with several gas mixture options to cover most welding applications, including: Argon, Argon/CO_2 (90/10), Argon/CO_2 (80/20), Argon/CO_2 (85/15), Argon/CO_2 (75/25), Helium and CO_2

► Compatible with the Weld Central™ Data Acquisition System

MANUAL GAS FLOW GAUGES

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 (cfh or lpm) at nozzle

► **EL-GFM** features flexible hose for easy operator readings on robotic torches; use **EL-GFM-1** for semi-automatic torches

EL-GFM-1

EL-GFM
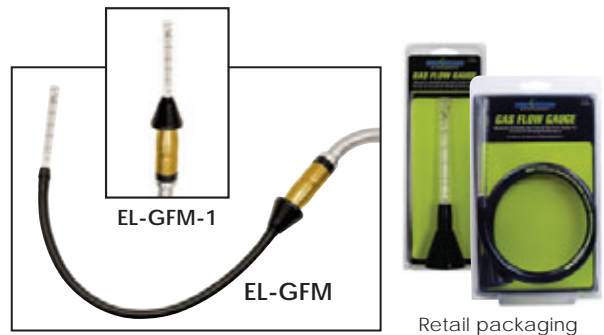
Retail packaging

WELD SHIELD GAS FLOW SWITCH

Weld Shield Gas Flow Switch

New & improved model! This compact flow switch provides reliable and accurate detection of excessive or insufficient flow rate at the weld point. A digital display offers visual flow rate indication for quick and easy switch adjustment.

► Ideal for protecting against gas flow failure - sends 24v signal to PLC for alarm or to stop the welding process

► Precalibrated for common welding gas mixtures

► PNP or NPN models available
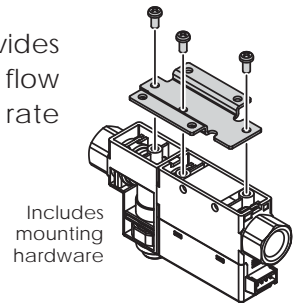
Includes mounting hardware

ITEM	PART NO.
Weld Central™ Digital Gas Flow Monitor - In-line Model (includes gas fittings)	WC-1-GM
Weld Central™ Digital Gas Flow Monitor - Portable Model for checking flow at the nozzle (includes hose assembly)	WC-1-GM-P
Weld Central™ Digital Gas Flow Monitor Calibration Service (yearly recalibration recommended)	WC-1-GM-RECAL
Manual Gas Flow Gauge for Robotic Applications	EL-GFM
Manual Gas Flow Gauge for Semi-automatic Applications	EL-GFM-1
Weld Shield Gas Flow Switch - PNP Model	EL-RVMU-14
Weld Shield Gas Flow Switch - NPN Model	EL-RVMU-14-NPN

GAS WIZARD™
INERT GAS SAVERS

SAVE 35% OR MORE ON INERT GAS!

NEW

Adjustable Gas Savers - GFJ-ADJ-A, B or C
Saves gas and allows fine tuning of gas flow.

Gas Wizard™ Inert Gas Savers are designed to reduce gas consumption by restricting the gas surge that occurs at arc initiation. The new **Adjustable Gas Saver** is ideal for virtually all welding applications and allows fine tuning of the gas flow, which is an added benefit for facilities utilizing long bulk gas delivery systems with pressure drops.

► **Reduces gas consumption** in MIG or TIG applications

► Restricts gas surge upon arc starts, screen prevents blockages

► Gas savers available for the inlet or outlet side of gas solenoid

► Flow jets can be changed depending on application

NON-ADJUSTABLE GAS SAVERS

Gas Saver for Standard Outlet

GFJ-1 (Jet #1)
GFJ-2 (Jet #2)
GFJ-3 (Jet #3)

JET ... Gas Flow ... SCREEN

Gas Saver for Inlet Side of Solenoid

GFJ-1A
GFJ-2A
GFJ-3A

Gas Flow → ... JET
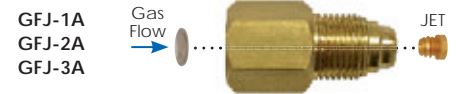
Gas Saver for Outlet Side of Solenoid

GFJ-1B
GFJ-2B
GFJ-3B

JET ... Gas Flow ←

Gas Saver for Inlet Side of Solenoid

GFJ-1D
GFJ-2D
GFJ-3D

Gas Flow → ... JET
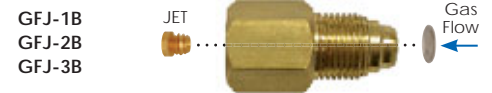
Gas Saver with BSPP Threads (Fronius® style)

GFJ-F1
GFJ-F2
GFJ-F3

JET ... Gas Flow ←

GFJ-P-SKS-2
In-line gas saver/ power pin for SKS® torches

GAS SAVERS - INCLUDE SCREENS & JETS 1, 2 or 3 *(JETS INDICATED NUMERICALLY IN PART NUMBER)*

PART NO.	THREADS	JET LOCATION
GFJ-ADJ-A	5/8"-18 Male x 5/8"-18 Female (Adjustable)	–
GFJ-ADJ-B	1/4"-18 Male NPT x 5/8"-18 Female NPT (Adj.)	–
GFJ-ADJ-C	1/4"-18 Male NPT x 1/4"-18 Female NPT (Adj.)	–
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

IN-LINE TORCH POWER PIN GAS SAVERS

GFJ-P-SKS-2	In-line gas saver / power pin for SKS torches (inc. jet #2)

GAS SAVINGS AS A RESULT OF ELIMINATING GAS SURGE UPON ARC START

Spikes represent gas surge at arc start <u>without</u> gas saver installed

Gas Savings

— Flowmeter — Gas Saver

CFH (y-axis: 0, 10, 20, 30, 40, 50, 60, 70, 80)

TIME (SEC) (x-axis: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25)
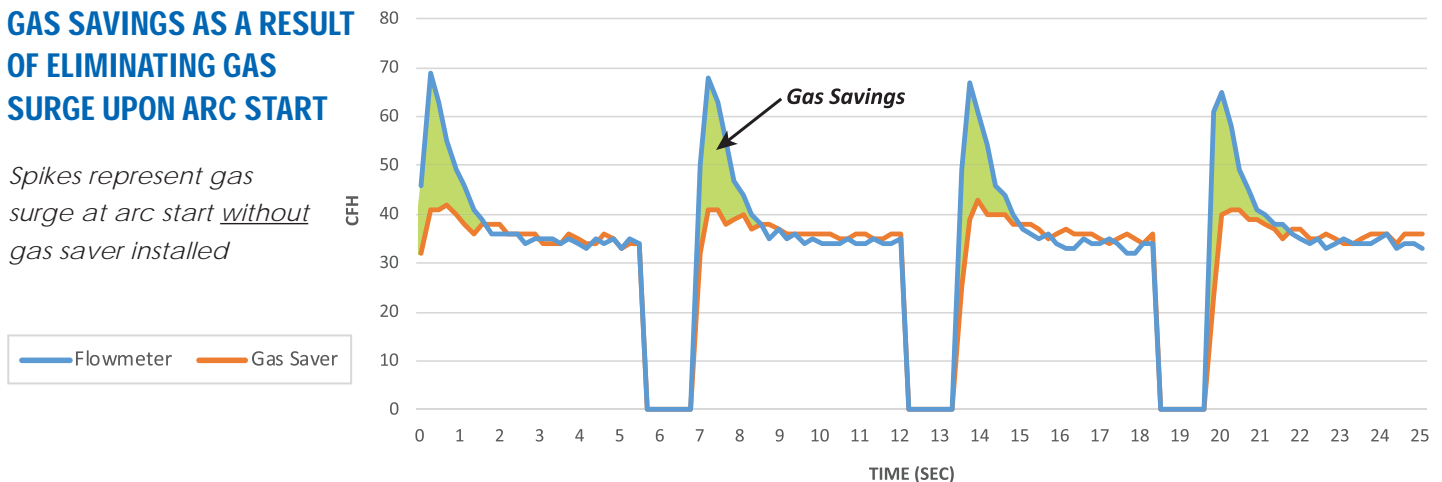
FDD-MD setup for
drums 21″ & under

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

HEAVY DUTY 26″ DRUM DOLLY

FDSC

UNIVERSAL DRUM DOLLIES

Model FDD-MD (FOR UP TO 25″ DRUMS/BOXES)
Model FDD-MD-LD (FOR 25″-30″ DRUMS/BOXES - INC. 4″ CASTERS)

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)   Weight: 24 lbs (10.4kg)
Capacity: 1200 lbs (544 kg)

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)   Weight: 24 lbs (10.4kg)
Capacity: 1200 lbs (544 kg)

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)   Height: 40" (1.02m)
Depth: 26" (660.4mm)   Width: 30" (762mm)
Capacity: 1200 lbs (544 kg)   Weight: 43 lbs (19.5kg)

UNIVERSAL DRUM DOLLY

ITEM	PART NO.
Universal Drum Dolly	FDD-MD
Large Universal Dolly	FDD-MD-LD

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

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 (for standard forks)
Model FDL-FA-6 (for 6" wide forks)
► Adjustable T-handle keeps adapter from sliding off fork
► Safety style clasp **secures** adapter to drum lifter
► 1200 lbs (544 kg) capacity

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

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
► 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

29" DRUM LIFTER (NON-ADJUSTABLE) Model FDL-29
► For 29" (737mm) wide drums or boxes - 1200 lbs (544 kg) capacity

FDL DRUM LIFTER WITH FDL-FA

FDL-C DRUM SHARK WITH FDL-FA

FDL-HS

FDL-21-12, FDL-24-12 OR FDL-29

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

OVERHEAD
SAFETY LIFTER

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 45).

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**

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

WWSD
PALLET (SKID) DOLLY

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

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

WRSC
STAGING CART

All dollies and carts are shipped unassembled (assembly available)

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 selectable to 5 minutes or more

Manual application only. Does not take continuous readings.

HHSS-12
WIRE FEED SENSOR
for readings at torch

HHSS
WIRE FEED SENSOR
for in-line readings

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" (6.3 mm)	3/8" (9.5 mm)
EL-20	5/16" (7.9 mm)	1/2" (12.7 mm)
EL-30	5/16" (7.9 mm)	5/8" (15.8 mm)
EL-40	3/8" (9.5 mm)	5/8" (15.8 mm)
EL-50	13/32" (10.3 mm)	3/4" (19.05 mm)

EC POLYMER CONDUIT CUTTER & COUNTERSINK TOOL

Model EC-CUTTER & EC-DB

The heavy duty **EC-CUTTER** is designed to trim all sizes of polymer 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-DB

EC-CUTTER

SAMPLE WIRE DELIVERY KIT CONFIGURATIONS
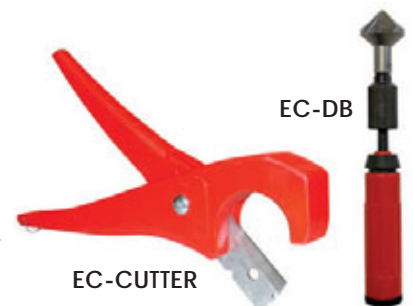
Don't know where to start with your wire delivery system? The following wire delivery kit configuration examples are designed to help you configure your wire delivery equipment setup for some typical weld cell layouts seen in robotic and semi-automatic arc welding. Based on wire type and size, they are designed to minimize wire skid friction for a smooth wire feed. These configurations are customizable and can be modified to fit your welding application. Refer to the **wire-wizard.com** website for additional wire delivery kit details and options. Contact your Wire Wizard® Technical Sales Manager or customer service for assistance with custom wire delivery systems for MIG as well as SAW welding.

Wire Wizard® Guide Modules, WGM-M-1 (pg 14-18)

Conduit Options (pg 19-23)

Steel Wire up to .052 (1.3mm) - Semi-automatic
(Ref. #WDK-SDM-2)

Wire Wizard® Guide Modules, WGM-1 (pg 14-18)

Telescoping Conduit Disconnect Kit (pg 26)

WizardGear™ Robot Cable Management (pg 24-25)

Steel Wire up to .052 (1.3mm) - Robotic
(Ref. #WDK-SDR-1)

Wire Pilot® Feed Assist (pg 32-34)

Up to 150 ft (46m)+

Fire Resistant Drum Covers (pg 7)
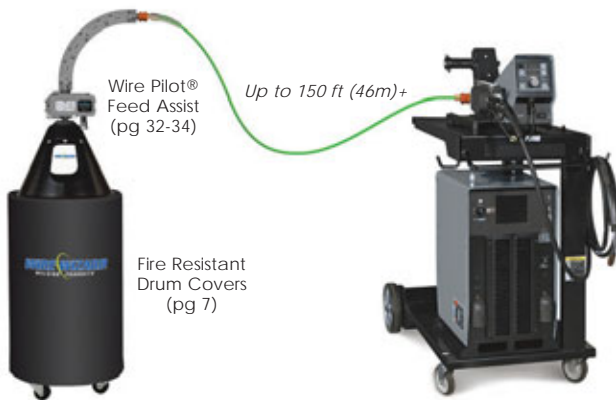
Non-ferrous Wire up to 1/16″ (1.6mm) - Semi-automatic, with Wire Feed Assist *(Ref. #WDK-ADM-1P)*

Up to 150 ft (46m)+

Wire Pilot® Feed Assist & Stand (pg 32-34)
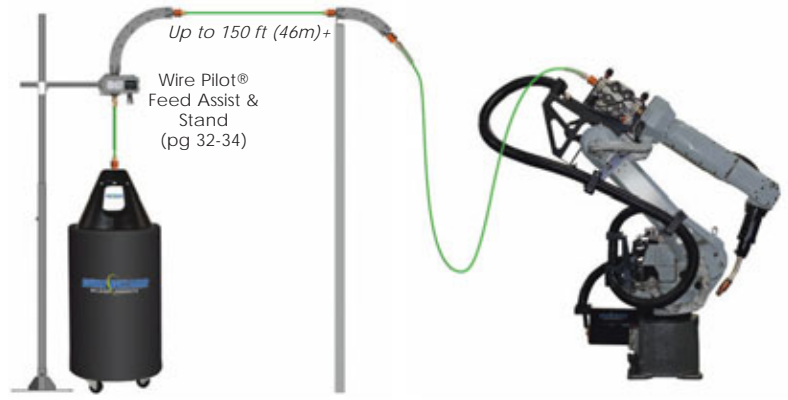
Non-ferrous Wire up to 1/16″ (1.6mm) - Robotic, with Wire Feed Assist *(Ref. #WDK-ADR-1P)*

Drum Hood Options (pg 4-6)

Cored or Stainless Steel Wire up to .052 (1.3mm) - Semi-automatic *(Ref. #WDK-CDM-1)*

Dereeling Arm Options (pg 11-12)

Steel Wire on Wood Reel up to 1/16″ (1.6mm) - Robotic *(Ref. #WDK-SRR-1)*

Wire delivery system may also be installed through the weld cell wall, underneath the wall or on a mezzanine above the cell. See pages 14-18 for additional Wire Wizard® Guide Module installation options.

The **WeldCOP™** program is the core service offered by the **Wire Wizard®** **Optimization Services** division that includes weld cell auditing, maintenance and training. Upon completion of the program, an optimization plan is developed to establish welding performance standards that can be used for individual or multiple facilities performing the same welding processes. The ultimate goal of the WeldCOP™ program is to optimize the **OEE (Overall Equipment Effectiveness)** of all welding operations, resulting in substantial long-term cost savings and maximum productivity.

A FOUR STAGE PROCESS TO OPTIMIZE YOUR OEE

The **WeldCOP™** program consists of a four stage process to collect data, analyze and optimize the OEE for your welding application.

Stage 1: Review of the current (or new) welding process & incorporation of Weld Central™ system to gather performance data.

Stage 2: Overview of the manufacturability opportunities based on the product, tooling and machine design.

Stage 3: Continuous OEE monitoring, identifying and implementing opportunities for improvement to optimize OEE.

Stage 4: Total process review & optimization plan focused on maximizing OEE and reducing costs.

ADDITIONAL SERVICES OFFERED BY THE WIRE WIZARD® OPTIMIZATION SERVICE DIVISION INCLUDE...

WELD CELL MAINTENANCE SERVICES

Wire Wizard® provides **active weld cell maintenance** services to keep welding operations consistent in quality and performance. Utilizing our maintenance team reduces downtime, labor costs and identifies potential problems before they shut down production. Services are provided by trained personnel familiar with welding and safety standards. Maintenance plans are tailored to the needs of each facility, and can include:

▶ Maintaining & monitoring welding consumables

▶ Maintenance of peripheral equipment

▶ Monitoring of weld cell performance & OEE

▶ Fast response to welding challenges

▶ Weld cell cleaning/dry ice blasting services

TRAINING COURSES & PROGRAMS

In order to maintain the standards developed through the WeldCOP™ program, it's critical that plant personnel are properly trained to understand and implement optimum welding procedures. Basic, intermediate and advanced training programs are available from our team of experienced welding professionals. Training courses and programs are available for:

▶ Maintaining WeldCOP™ OEE performance standards

▶ Basic and advanced processes & applications

▶ Setup & maintenance of peripheral equipment

▶ Welding safety training

▶ Weld cell troubleshooting

Contact sales or customer service at 517-782-8040 for more information on WeldCOP™ and other weld cell services.

CO2MMANDO AP
ALL PNEUMATIC DRY ICE BLASTER

PROUDLY MADE
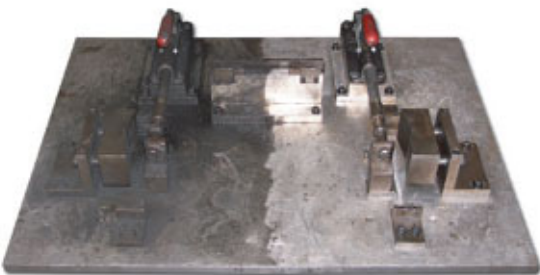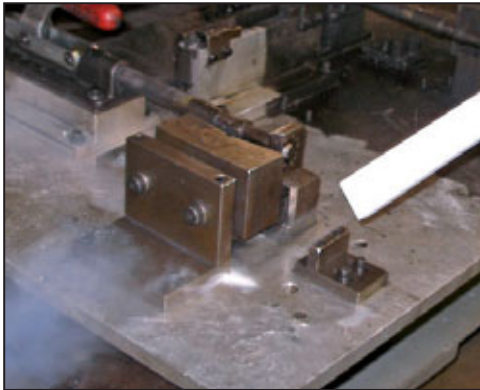
Welding Fixture - Before & After

NU-ICE AGE DRY ICE CLEANING EQUIPMENT

ELCo Enterprises 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 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

► Most equipment can be cleaned in place without any disassembly or cooling, reducing downtime

► Removes residue, spatter, slag, grease, oils and more

**CO2MMANDO 55
DRY ICE BLASTER**

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

► Static ground cable included to reduce the risk of static electric shock in certain blasting applications

► Each Dry Ice Blasting Machine includes required hoses, blast gun, extension and a short round & fan nozzle (see below).

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

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

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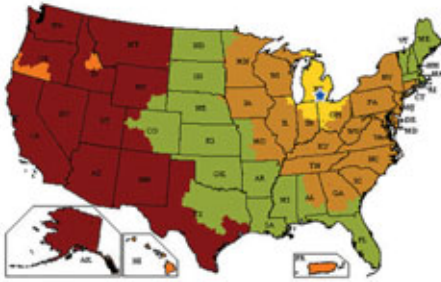
- **Ground** *(see maps)*
- **Next Day Air**
- **2nd Day Air**
- **3 Day Select**
- **International Service**

SHIPPING TRANSIT TIMES FOR UPS GROUND:

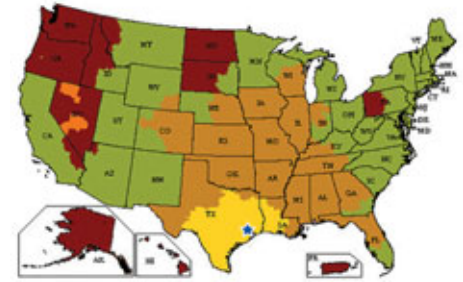☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 4 DAYS ☐ 5 DAYS

Orders may also be available for pick up from our Distribution Center locations.

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5750 Marathon Drive
Jackson, MI 49201

Tanner, AL Training & Tech Center
Alabama Robotics Technology Park
6629 US Hwy 31, Ph. II Ste. C • Tanner, AL 35671

Service Area

Houston, TX Distribution Center
8811 C Wallisville Rd.
Houston, TX 77029

Also provides fast shipping to Mexico (transit times will vary)

CANADA ORDERS SHIP FROM OUR DISTRIBUTION CENTER LOCATED IN WINDSOR, ONTARIO.

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) at our main office by calling 517-782-8040. **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.

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WEMCo — An Association of Welding Manufacturers

NaVOBA — National Veteran-Owned Business Association

GAWDA — Gases and Welding Distributors Association

ISO 9001:2008 CERTIFIED

Wire Wizard® Wire Dispensing Equipment

PowerBall® & E-Power® Torch Products

Low Friction Conduits & Connectors

Wire Wizard® Guide Module System

WizardGear™ Cable Management

Blue Magic® & Blue Chill® Anti-spatter

Torch Wizard® Cleaning Stations

Weld Central® Optimization System

Drum & Reel Handling Equipment

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