WIRE WIZARD®

WELDING PRODUCTS
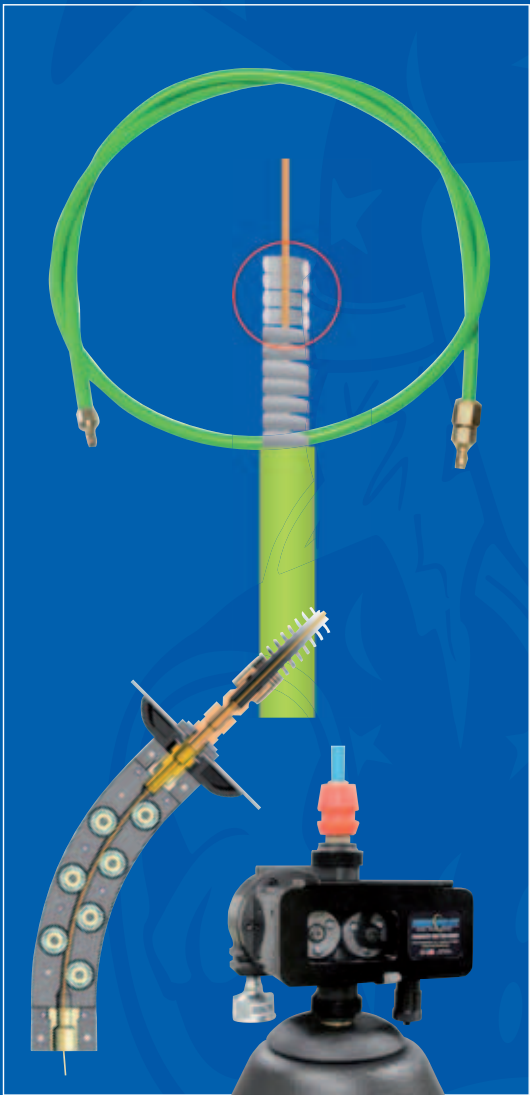
the art of wire feeding

WIRE WIZARD™
WELD WIRE DISPENSING SYSTEM

Productcatalog 2016
welding wire dispensing systems
www.wire-wizard.eu

Introduction

Dear Welding Associate,

You're about to enter the world of the Wire Wizard. This Wizard will hand you a solution for each wire feed problem you are faced with or will be in future.

Wire Wizard is the world leading brand in wire dispensing products. Started in 1985 by Elco Enterprices, Inc. in USA and brought over to Europe in 1999. Through anticipation of customer needs and ongoing dialogue with end users Wire Wizard created a distinct product line of High quality products.

WHAT IS WIRE WIZARD?

Wire Wizard is a range of products to dispense welding wire from any kind of spool or drum to any kind of wire feeder. This means that whatever kind of drums you're using; Wire Wizard has a cone especially for your type of drum. And also that whatever brand of robot or manual welding machine you use; Wire Wizard has a connector specially for your type of wire feeder. In combination with the high quality conduit you are able to connect everything to anything.

New Wire Guide Modules
The most spectacular innovation in years are the new Wire Guide Modules. A totally new concept of feeding wire. Philosophy:

- What causes the most friction in wire transport?
- Exactly, "the bends and curves in your conduit"
- Eliminate these curves, you'll eliminate the friction.

Within this new way of thinking the straight ends of your wire feed are made with the familiar conduits and the bends are made with these Wire Guide Modules.
Each module has a curve of 45 degrees and can be built together with other modules in order to make a 90, 135 or 180 degrees curves. In this way large distances can be bridged without assist.
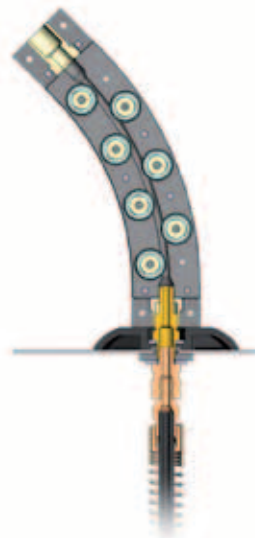
The possibilities
The Wire Wizard program offers a total solution for all your wire feeding problems with high quality products. With a simple combination of products it is possible to equip every robot or welding machine with a drum placed at a variable distance.
Extra advantage is that every connection is made with quick disconnections. This makes it very easy to replace or clean the conduit. To change from one type of wire to another can be done very fast.

6 steps to your solution
Wire Wizard keeps things simple. Each situation is connected with a universal type of connector and also the conduit is easy to choose. This makes it very easy to compose your own set of equipment specially for your situation. In 6 steps this catalogue takes you to a perfect set of equipment.

New products in this catalog

New PFA-Unit with oil-free motor

A new model of the pneumatic feed assist is added to the program
With oil-free motor and precise alignment of the drive-rolls.

See page 16

Spatter Shield the new way of Anti-spatter

New way of spatter fighting starting from the source.

Read more at page 28

Extreme flexible conduit

Extreme flexible conduit made for robotic use in that situations where
maximum flexibility is required.
Available with Wire Wizard and Asian style connectors.
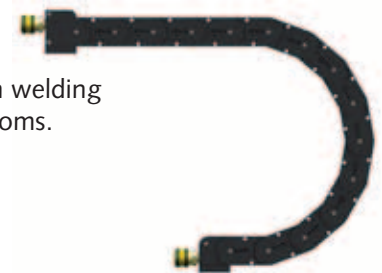
See page 12

Flex-module

Made in the same concept as the guide modules
is the new Flex-module.
This innovation provides easy wire feeding for each welding
application with automated tracks, gantries and booms.

Will be available soon.
See page 21

Torch-products

The elliptical wire technology used at the conduits is
now continued and used to make the best torch-liner in
the market.

See page 30

Torch consumables made within a new way of thinking
Check page 31

Unbreakable polyethylene cone's for all available drums made with two flexible window-flaps

Round drum cone

Round drum cone for Economical or Environmental fiber drums. The lip securely anchors the cone to the drum.

Size in cm	Part Number
51 cm	WW10201F
58 cm	WW10231F
67 cm	WW10260F

Octagon drum cone

Octagon drum cone for octagonal packs.
The lip securely anchors the cone to the pack.

Size in cm	Part Number
52 cm	WWOC205
60 cm	WWOC235 H

Size in cm	Part Number
60 cm	WWOC235 L

LOW PROFILE HOOD

Square drum cone

Square drum cone for square packs.
The lip securely anchors the cone to the pack.

Size in cm	Part Number
54 cm	WWSC-21
61 cm	WWSC-24
72 cm	WWSC-28

Round drum cone

Round drum cone for standard fiber drums.
Mounted with the metal ring supplied with the drum.

Size in cm	Part Number
51 cm	WW10200C
52 cm	WW10204C-STANDARD IN EUROPE
66 cm	WW10260C

Direct pull kit

The WWDP is the most universal cone-connector and is the right choice for 99% of all applications.

The kit contains a female connector with insulation-sleeve a washer and a ceramic insert in a delrin socket.

WW-DP

Cone Connector insulator
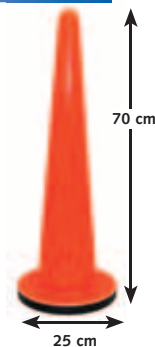
Insulator for the drum connection

WW-DI

WW-QDI

Universal insula-totion sleeve for all quick discon-nects.

Re-usable drum core

The re-usable drum-core is special designed for coreless drums.
This tool prevents the wire from flipping over inside the drum Herewith the downtime caused by tangled wire is history.

WW-IC-11

70 cm

25 cm

Orbital Arm kit

The orbital arm is developed to solve problems which can occure during the unwinding of drums. Small diameter wires and heavy tangling wire can cause nuts inside the drum. With the orbital arm these problems can be solved easily.

WW-OA-20H

HOOD

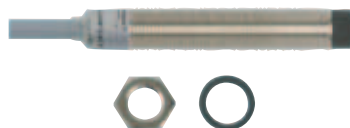The orbital arm prevents the wire to get caught-up by the center-core of the drum.
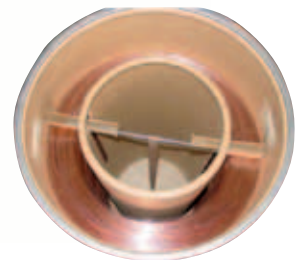
Wire detection

WIRE SENSOR BLOCK M12
(male thread in, female out)

WWSBM12

WIRE END SENSOR 24V
(including 10 Mtr Cable)

WWA5-E34-NC (Normally close)
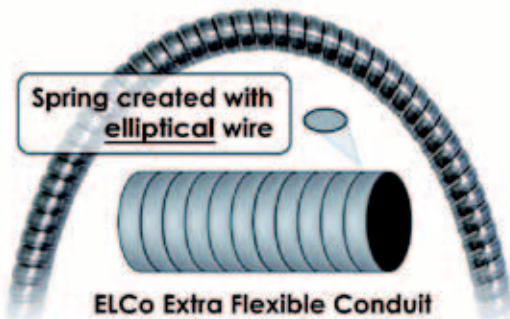**WWA5-E34-NO** (Normally open)
The wire-end-detection-sensor can be used at Mild steel, stainless steel and aluminum.

Mounting at drum-cone by using WWDP

Extra flexible conduit

Spring created with elliptical wire

ELCo Extra Flexible Conduit

The Wire Wizard extra flexible conduit made with hard metal spring of elliptical wire for:
• Less contact with welding wire surface
• Minimum friction
• Smooth round edges in bends
• Easy to feed in new wire

The double insulation jacket makes the right proportion in stiff and flexible.

	Part Number	Dimensions in mm inside x outside	Connector	Use for wire	Order quantity	Bulk length
	FC-X-SW	2,3 x 9,00 mm	A-10CS	0,6 mm	Per mtr	30,5 mtr
	FC-X	6,0 x 12,70 mm	A-10CX	0,6 -1,6 mm	Per mtr	30,5 mtr
The FC-X liner is the standard for MIG/MAG welding						
	FC-XH	7,5 x 15,50 mm	A-10R	1,6 - 2,4 mm	Per mtr	30,5 mtr
	FC-XH-LW	10,0 x 19,00 mm	A-9+A6	2,4 - 4,8 mm	Per mtr	30,5 mtr

Get connected in 3 steps
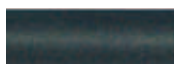
1 Cut your conduit at the right length with a cutter or angle grinder
ATTENTION: DO NOT STRIP IT

2 Push the connector onto the liner
Make sure the clamping ring is in place

3 Tighten the connector with two wrenches
The ring will be pressed and clamped onto the conduit

Extra flexible conduit in fixed lenghts with swaged connectors

All conduits in our range are also available in fixed lengths with swaged connectors. For the FC-X we have made some standards.

Length*	Article Number
1,5 m	FCX015
3,0 m	FCX030
5,0 m	FCX050
8,0 m	FCX080
10,0 m	FCX100

2 Swaged connectors

1 x side with polymer strain relief

Conduits Stainless Steel & Aluminum

Polymer conduit is going green in 2016!   NEW COLOR- SAME QUALITY

The Wire Wizard polymer conduit is made of a cross-linked polymer which unites all the best in one
• Low friction coefficient
• Extended wear
• High durability
• Light in weight
Tested for maximum durability by continuously flexing it back and forward.
The EC-4 lasts over 200.000 times
That's the amount of the leading competition times 70!

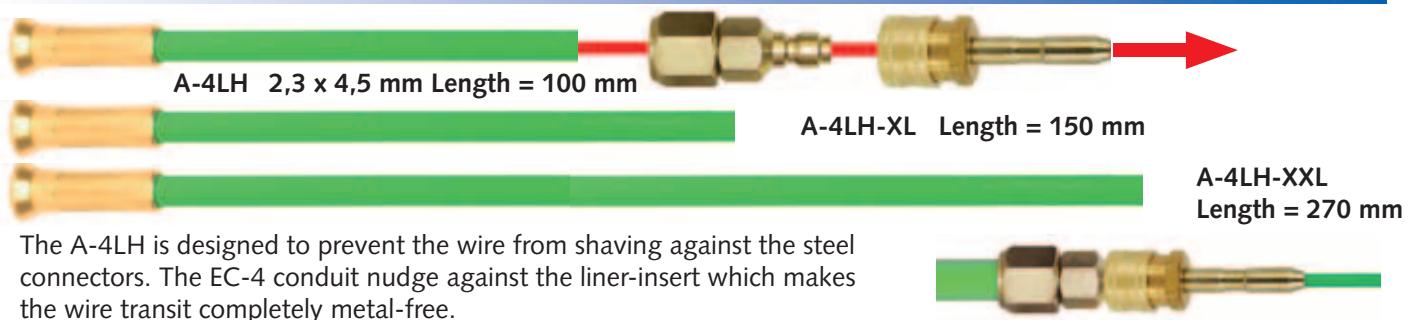EC-4 Crosslinked Conduit | Non-Crosslinked Conduit A | Non-Crosslinked Conduit B

Flexural Strength Test Results

	Part Number	Dimensions in mm inside x outside	Connector	Use for wire	Order quantity	Bulk length
	EC-3	4,5 x 8,6 mm	A-10CS	0,6 mm	Per mtr	152 mtr
	EC-4	7,6 x 11,70 mm	A-10CH	0,6 -1,6 mm	Per mtr	152 mtr

The EC-4 liner is the standard for MIG/MAG welding

	Part Number	Dimensions	Connector	Use for wire	Order quantity	Bulk length
	EC-5	10,0 x 15,20 mm	A-10R	1,6 - 2,4 mm	Per mtr	152 mtr
	EC-6	14,0 x 19,00 mm	A-9+A6	2,4 - 4,8 mm	Per mtr	152 mtr

Polymer liner insert for metal-free connector transit

A-4LH   2,3 x 4,5 mm Length = 100 mm

A-4LH-XL   Length = 150 mm

A-4LH-XXL Length = 270 mm

The A-4LH is designed to prevent the wire from shaving against the steel connectors. The EC-4 conduit nudge against the liner-insert which makes the wire transit completely metal-free.
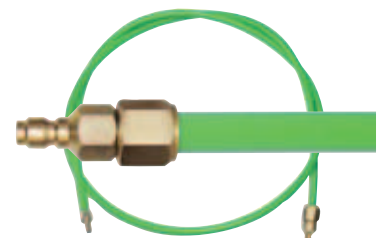
Blue Polymer conduit in fixed lenghts with thread connectors

All conduits in our range are also available in fixed lengths with thread-connectors
For the EC-4 we have some standards.

Length*	Article Number	Length*	Article Number
1,5 m	EC4-015	8,0 m	EC4-080
3,0 m	EC4-030	10,0 m	EC4-100
5,0 m	EC4-050		

*Other lenghts can be made at request
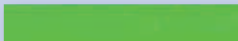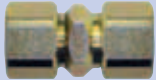
Connectors for extra flexible conduit

Conduit	Compression	Press-on	In-Line	Union	
FC-X-SW	A-10CS	Attention!! You need an hydraulic press to mount these	With 1/2″ thread use to connect the wire guide modules		For connectors with a strain relief add -SR to the articel number
FC-X	A-10CX	A-11X	A-10-XM		
FC-XH	A-10R	A-11XH	A-10RM	A-10RU	
FC-XH-LW	A9 + A6	A-11XH-LW	A-9	A-9U	

Connectors for polymer conduit

Conduit	Compression	Self-threading	In-Line	Union	
EC-3	A-10CS		With 1/2″ thread use to connect the wire guide modules		For connectors with a strain relief add -SR to the articel number
EC-4	A-10CH	A-16F4	A-10HM		
EC-5	A-10R	A-16F5	A-10RM	A-10RU	
EC-6	A9 + A6		A-9	A-9U	

Replacement ferrules for compression connectors

Re-use the connector by only replacing the ferrule

Conduit	Ferrule
FC-X-SW & EC-3	A-10SFE
EC-4	A-10CFE
FC-X	A-10XFE
FC-XH & EC-5	A-10RFE
FC-XH-LW & EC-6	A-9-FE

A-9-FE   A-10RFE   A-10XFE   A-10CFE   A-10SFE

Choose the right connector to connect your wire feeder

To connect the conduit to your wire feeder
Wire Wizard offers a wide range of feeder-adapters.
One for each feeder available in welding industry
All feeder-adapters are made with a female quick disconnect
which fits the male bayonet at the conduit, this makes:
• Quick exchange of conduit possible
• A rotation point at the feeder to relief torsion in the conduit
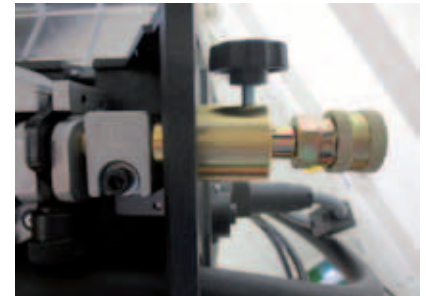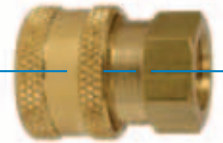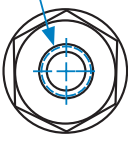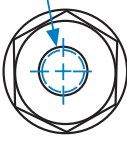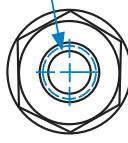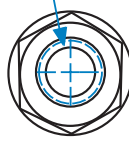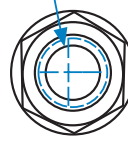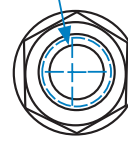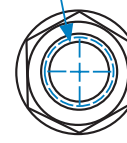
To help you choose the right adapter we made a selection of the most used ones

A-1LN-23B
12 x 37mm
Fits:
Lincoln
Esab
Cloos
EWM
Kemppi
Lorch
etc

A-1FRO
13 x 47mm
Fits:
Fronius
SKS

A-3QDF-4
9/16"-18UNF
Thread
Fits:
Panasonic
OTC
Yaskawa

A-4 plus A-14
For:
insulated
plate
mounting
and
universal
use

Quick disconnects (FEMALE)

A-4
Brass copper
1/4" NPT

A-14
Derlin plastic
1/4" NPS

A-14KIT
2x A-4 + A-14

A-14BK
A-14KIT +
A-14B

A-4ST
Steel
1/4" NPT

A-4S
Ring + Nut
1/4"BSP-M (GAS)

A-5
Brass-copper
1/2" NPT-M

Quick disconnect with inside thread to mount directly at the inlet guide of the feeder

1/4" NPT-F

3/8" – 24UNF
THREAD

7/16"-20 UNF
THREAD

1/2"-20 UNF
THREAD

9/16"-18 UNF
THREAD

M14 x 1.5
THREAD

3/8" NPT-F
THREAD

A-3

A-3

A-3QDF-1

A-3QDF-2
OTC

A-3QDF-3
Motoman

A-3QDF-4
Panasonic

A-3QDF-5

A-3QDF-6

WWTT-DP

WWTT-DP
for plate mounting
with ceramic insert

Bayonet (Male) connectors

A-16MST
1/4" NPT-M
for use in
Derlin thread

A-15
1/4" BSP (GAS)
A-15-1
7/16"–20
A-15-2
9/16"–20

A-16F3
1/8" NPT-F

A-16F4
1/4" NPT-F

A-16F5
3/8" NPT-F

A-16F6
1/2" NPT-F

Thread adapters

A-17G
1/4"F →3/8" M
A-18G
1/4"F →1/2" M
A-18G1
3/8"F →1/2" M

9

Inlet guides with quick disconnect special for one brand

12 mm Adapters

A-1LN-23B
Multiple use
2,20 — 12,00 — 37,00

A-1CL
Cloos
3,20 — 12,00 — 34,50

A-1LN-23A
Lincoln
6,40 — 12,00 — 35,00

A-1MOT-HP
Motoman
5,00 — 12,00 — 55,00

A-2SKS
SKS
2,40 — 12,00 — 63,00

WW-QDI
Connector insulation sleeve

13 mm Adapters

A-1FRO
Fronius Feeder
2,20 — 13,00 — 47,00

A-2FRO
Fronius Feeder
2,00 — 13,00 — 70,00

A-1FRO-B
Fronius Feeder
2,20 — 13,00 — 60,00

Other Adapters

A-1OTC-FX
OTC
3,20 — 14,00 — 40,00

A-1NA-5
Lincoln
5,00 — 8,00 M8 — 23,00

A-1MOT-AU
Motoman
3,20 — 11,20 — 103,00

9,5 mm Adapters

A-1B-C
3,20 — 9,50 — 33,00

A-1B-CHD
5,00 — 9,50 — 33,00

A-1A-D
3,00 — 9,50 — 44,50

A-1A-C
5,00 — 9,50 — 44,50

A-1A
3,20 — 9,50 — 70,00

A-1A-45
3,20 — 9,50 — 114,00

A-4LH
pag 7

For metal free transit through connector

Inlet adapters with female thread

Use A-4
(1/4" NPT-M)

A-2E	A-1E	A-1H	A-1LN	A-1M	A-1PA	A-1OTC	A-8F
1/4" NPT-F	1/4" NPT-F	1/4" NPT-F	1/4" NPT-F	1/4" NPT-F	1/4" NPT-F	1/4" NPT-F	1/4" NPT-F
ESAB 4-48	ESAB All	Hobart	Lincoln	Miller	Panasonic	OTC	Miller

A-2E: 22,00 4,00 22,00 32,00
A-1E: 22,00 6,90 53,50
A-1H: 5,00 12,70 44,50
A-1LN: 31,50 5,00 27,10 21,00
A-1M: 5,00 9,50 44,50 51,00
A-1PA: 6,90 19,70
A-1OTC: 5,00 12,00 38,00
A-8F: 17,40 6,90 63,50
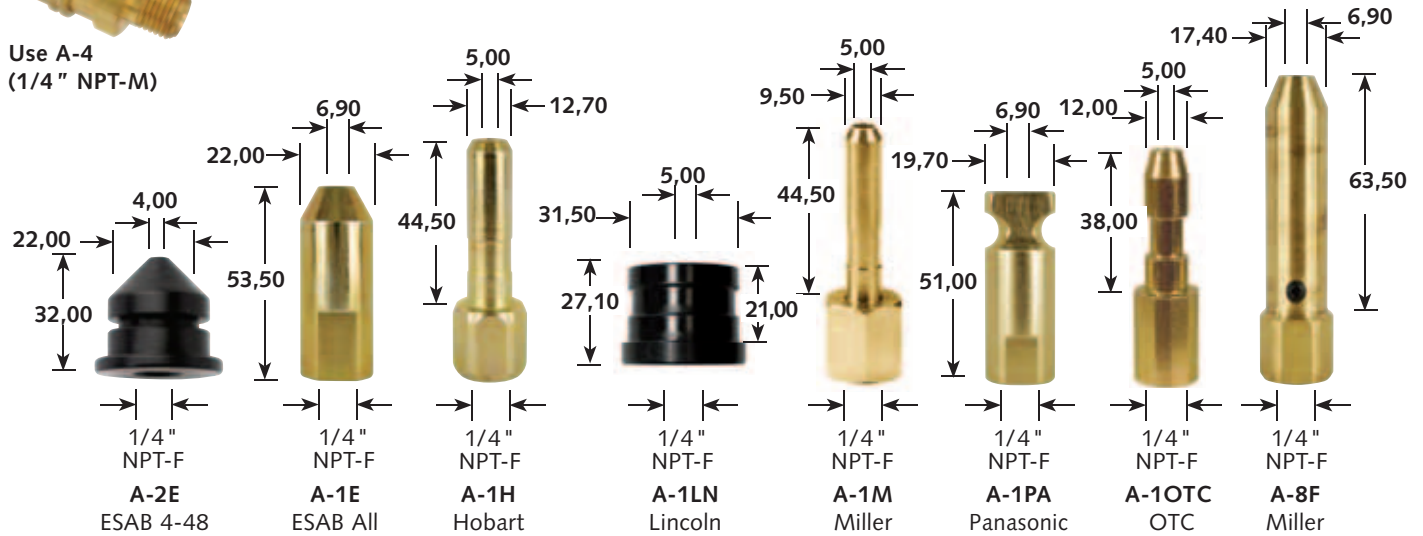
Derlin-plastic connectors for insulated feed through

Thread connectors

A-1DS

3,20 12,70 20,00
in/out straightners

A-1DS PFA

5,00 19,00 30,00
in/out PFA-unit

1/2" thread   3/8" thread

Ceramic connector

A-1CS

3,20 12,70 20,00
in/out straightners

A-1CS PFA

5,00 19,00 30,00
in/out PFA-unit

Ceramic insert with 5,5mm hole
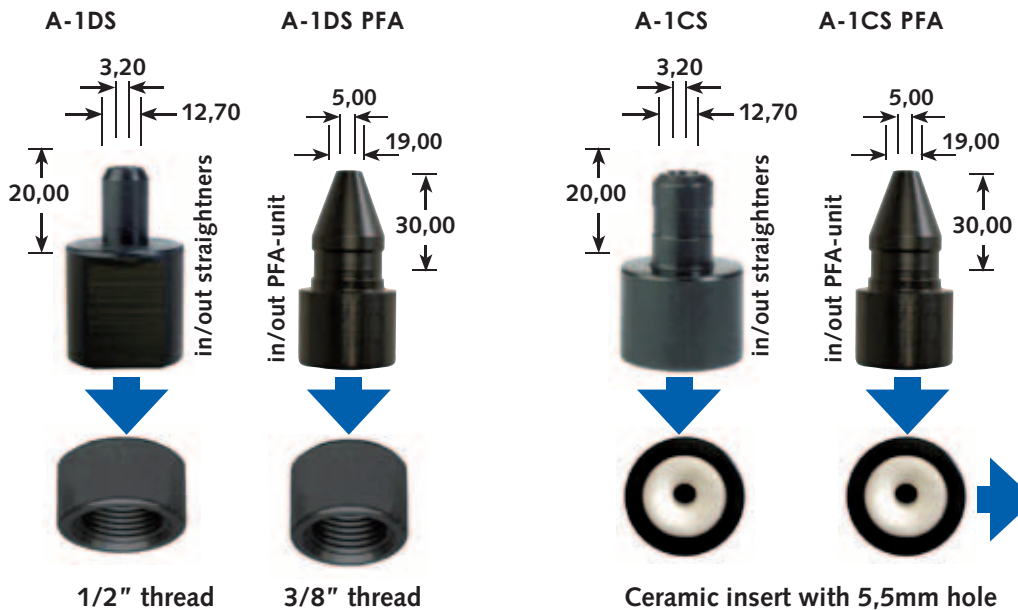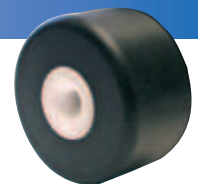
Universal inlet guide with quick disconnect

A-1AK

The A-1AK universal inlet kit is an inlet adapter with four phenolic bushings to make a solid and stable fitting in several sizes of holes.

A-7 = BUSHINGS ONLY

ID x OD	ID x OD	ID x OD	ID x OD
9,5 x 12,70 mm	9,5 x 15,90 mm	15,90 x 19,00 mm	15,90 x 22,20 mm
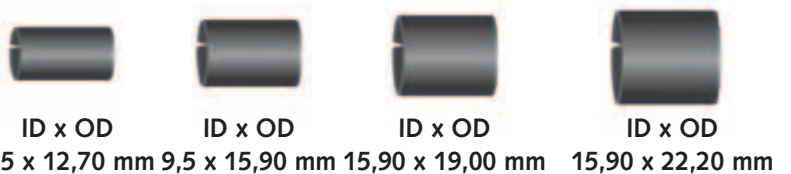
A-1AKE

SPECIAL ESAB

A-7E = BUSHINGS ONLY

ID x OD	ID x OD	ID x OD	ID x OD	ID x OD
9,5 x 12,00 mm	9,5x 12,70 mm	9,5 x 15,70mm	15,90 x 19,00 mm	15,90 x 22,20 mm

11

Extreme flex conduit

NEW
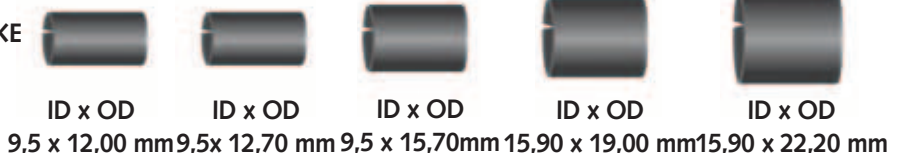
Ideal for
tight spaces
in robotic
weld cells
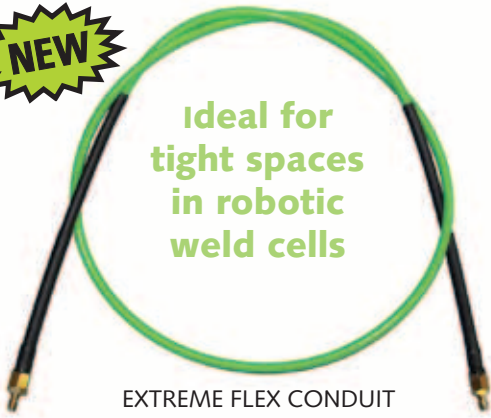
EXTREME FLEX CONDUIT
Shown as cut length with conenctors and
strain reliefs

POLYMER STRAIN RELIEF
Included on alle pre-cut lengths

This new extreme flexible conduit is made for those robotic applications in which the robot has to operate in a very tight welding cell.

When using a regular stiff conduit for such applications, the conduit can easily hook up with other parts.
Or in case of a fast moving robot the conduit can hit against the walls of the cell causing damage to the feeder connectors

This extreme flexible conduit bends easy into the small spaces around the robot

Flexible outer jacket →

Patent pending low friction elliptical liner ←

FC-E CONDUIT (EXPLODED VIEW)

Available lengths and connectors

FCE WITH WIRE WIZARD CONNECTOR

3,0 m	FCE030W
5,0 m	FCE050W
7,5 m	FCE075W
10,0 m	FCE100W

2x at conduit   **At feeder / drum**
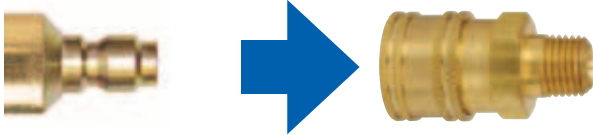
Wizard male bayonet fits wizard female QD
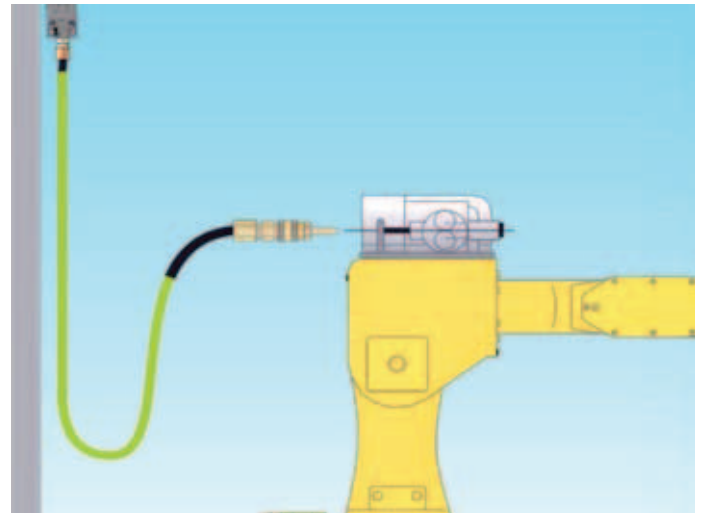
FCE WITH PANASONIC CONNECTOR

3,0 m	FCE030P
5,0 m	FCE050P
7,5 m	FCE075P
10,0 m	FCE100P

2x at conduit   **At feeder / drum**
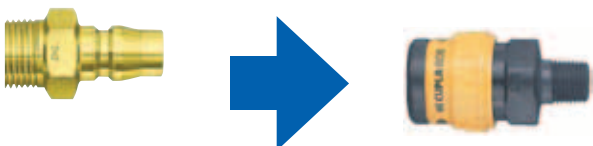
Panasonic fits Nitto HI Cupla Ace connector

FCE WITH THREAD CONNECTOR

3,0 m	FCE030A
5,0 m	FCE050A
7,5 m	FCE075A
10,0 m	FCE100A

2x at conduit   **At feeder / drum**
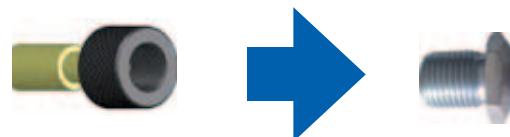
9/16"-18UNF thread fits Asian style feeders

WIRE WIZARD
WELDING PRODUCTS

Wire straighteners

Small Wire straightener

MODELS WS-1000 & WS-1000A
For Wire Sizes 0,8 - 1,6mm

Dimensions: W x H x D
95 x 78 x 42 mm
Weight: 0,45 Kg
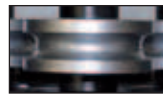
WS-1000 Drive Rolls
U-Groove Drive Rolls for Steel Wire
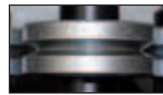
WS-1000-A Drive Rolls
V-Groove Drive Rolls for Aluminum Wire

INSULATED MOUNTING KITS
Avaliable for all
WSS-100-IK Small
WSM-100-IK Medium
WSL-100-IK Large

Feeder   **A-1QD**

A-3QDF5   **A-1LNS**

A-10HM/XM   **A-1DS**

WS-1000
STEEL WIRE STRAIGHTENER

WS-1000A
ALUMINIUM WIRE STRAIGHTENER

A-1LNS-LW   **A-3QDF5**   **A-4LH**

A-1HSD
Delrin union tube

2nd straightener

A-1CS
Delrin adapter with ceramic insert
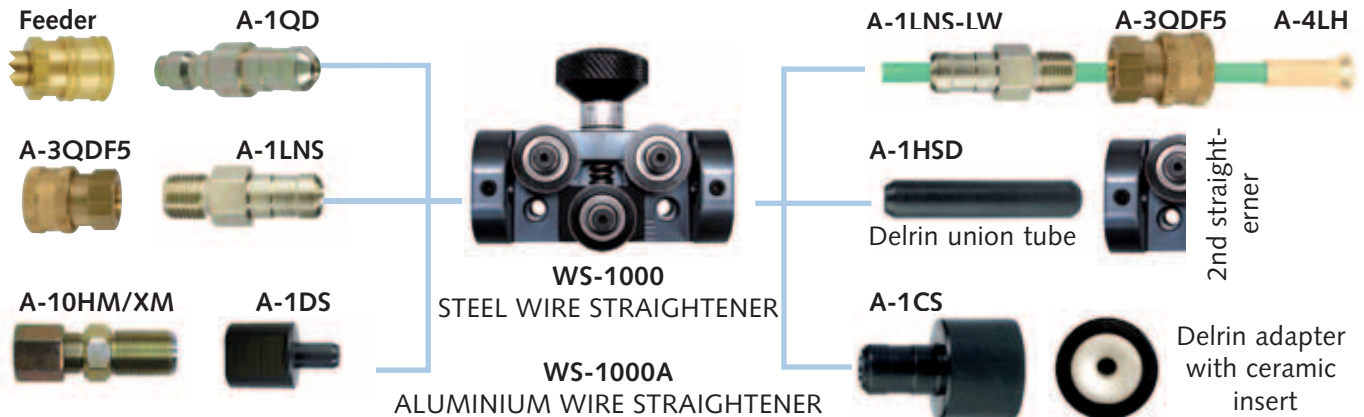
Medium Wire straightener

MODEL WS-1000H
For Wire Sizes 2,0 - 3,2 mm

Dimensions: W x H x D
145 x 85 x 48 mm
Weight: 0,8 Kg

A-16M-ST Attaches to QD

A-4 Quick Disconnect   **A-1LN** Inlet Guide

A-1LNU

Union connector

Large Wire straightener

MODEL WS-1000L
For Wire Sizes 4,0 - 6,0 mm

Dimensions: W x H x D
220 x 104 x 58 mm
Weight: 1,8 Kg

A-16M-ST-HD Attaches to QD

A-4HD Quick Disconnect   **A-1LN-LW** Inlet Guide

Use Large bayonet connectors

WS-10S

IN/OUT Adapter for Lincoln 10S Feeder
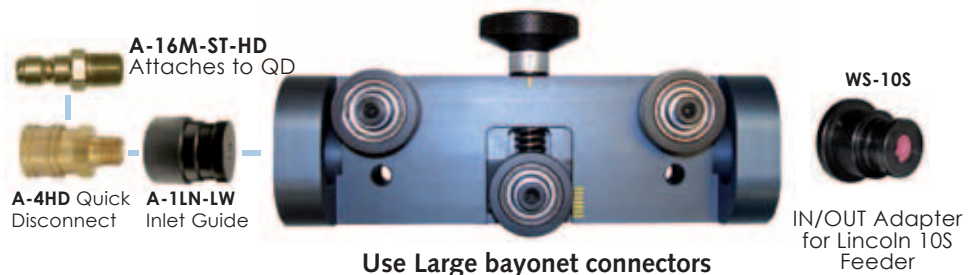
Facts and fables about straighteners

These straighteners has an aluminium body, insulated rollers and are made with a location calibration and a scale at the tension knob for fine adjustment.

The units at this page are called wire straighteners, but are in fact wire benders. A unit with three rollers can only bend the wire. When used at a wire coming from a spool you can in fact straighten the wire by bending it in the opposite direction. In case of wire coming from a drum the function of these units is to bend the wire in such way that the wire will not wobble when it comes out of the torch but curve out in one direction. Mainly when using aluminium from drums this can be a big problem. When it comes to the position of the unit at the welding installation, we strongly recommend to mount it at the entrance of the wire feeder.

13

page 8

A-10C-X

A-10R

A-9/A-6

A-10C-S
A-10C-H
A-10R

F-3
F-4 A-16
F-5
F-6

CONDUIT CONNECTORS

WIRE FEEDER

FC-X
STANDARD, EXTRA FLEXIBLE

FC-XH
HEAVY-DUTY, EXTRA FLEXIBLE
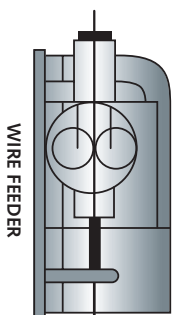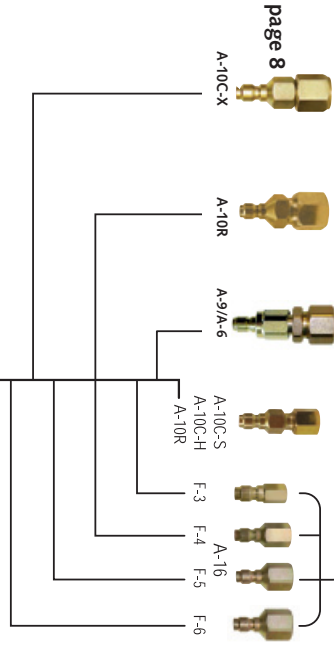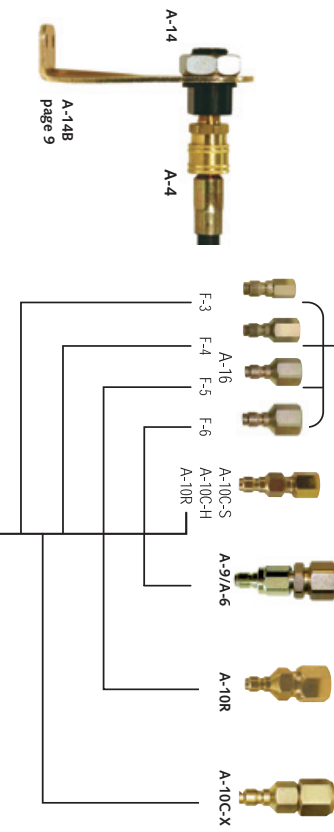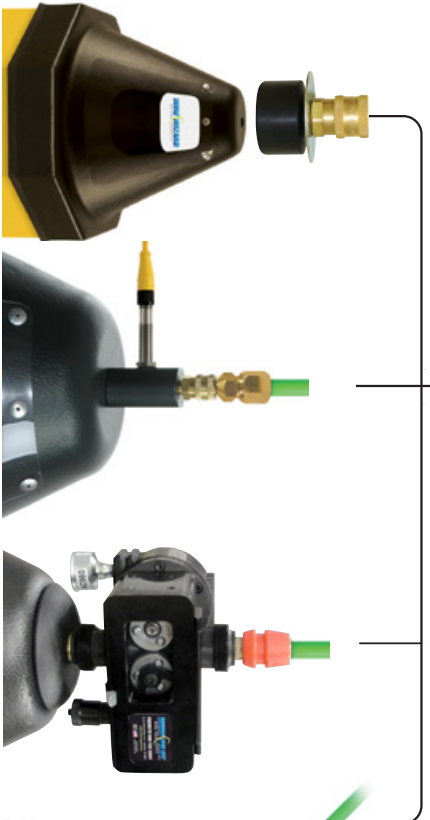
FC-XH-LW
LARGE-WIRE, EXTRA FLEXIBLE

EC-3, 4, 5 or 6
POLYMER CONDUIT
PAGE 6,7

A-1FRO

Inlet adapter for specific
brand. Choose one at page 10.

A-1AK

Universal inlet kit
Set of 1 inlet adapter
and 4 adapter bushings
page 11.

A-14

A-4
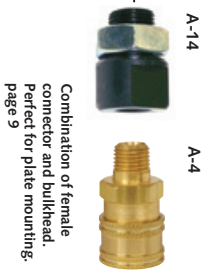
Combination of female
connector and bulkhead.
Perfect for plate mounting.
page 9

A-14

A-14B
page 9

A-4

F-3
F-4 A-16
F-5
F-6
A-10C-S
A-10C-H
A-10R

A-9/A-6

A-10R

A-10C-X

CONDUIT CONNECTORS
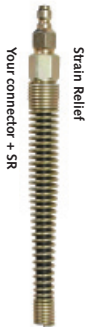
Strain Relief

Your connector + SR

page 8

page 8

14

Pneumatic Feed Assist - PFA

Why?

Why using a wire feed assist? The PFA is used at those installations in which a long cable run cannot be avoid.
10 Meter, 20 or 30 Meter? the PFA makes it possible.

How?

The air-powered motor pushes the wire to the outer corner of the conduit. The pushing-force is adjusted in a way that the motor keeps the wire at a mechanical tension. If welding starts the wire is pulled into the inner-corner which will undo the resistance and makes the air-motor run freely.
This process makes the wire float between the inner and outer corners inside the conduit.

Application

Features

- Works independent, NO SIGNAL NEEDED, shop air only
- Feeds wire up to 30 Mtr.
- Works with all wires and all welding machines
- Reduces, drag, wear and arc failures
- Increases conduit life, feeder life and production

Wire Feed Assist 2

PFA Classic model oiled motor

Advantages:
- **Quick roll exchange**
- **Small housing**
- **Suited for SAW**

A-1BC

PFA-FRL

Feedrollers

PFA-DA

PFA-OIL

1 mtr hose

All items included in standard set

Product	Part no
PFA unit for 1,0 mm wire (installation set included)	**PFA10**
PFA unit for 1,2 mm wire (installation set included)	**PFA12**
PFA unit for 1,4 mm wire (installation set included)	**PFA14**
PFA unit for 1,6 mm wire (installation set included)	**PFA16**
Other diameters at request	

Product	Part no
U-groove Feed roll 1,0mm for PFA (per piece)	**WW072000**
U-groove Feed roll 1,2mm for PFA (per piece)	**WW053701**
U-groove Feed roll 1,4mm for PFA (per piece)	**WW053702**
U-groove Feed roll 1,6mm for PFA (per piece)	**WW053706**
Other diameters at request	

New PFA-RB with oil-free motor

NEW

Advantages:
- **Oil-free motor**
- **Exact roller alignment**
- **Closed gear box**
- **Easy reversible**

PFAWT-OA
outlet apapter

PFA-FR

Filter-Regulator

Feedrollers

PFAWT-DA
drum
apapter

1 mtr hose

All items included in standard set

Product	Part no
PFA unit for 1,0 mm wire (installation set included)	**PFA10RB**
PFA unit for 1,2 mm wire (installation set included)	**PFA12RB**
PFA unit for 1,4 mm wire (installation set included)	**PFA14RB**
PFA unit for 1,6 mm wire (installation set included)	**PFA16RB**
Other diameters at request	

Product	Part no
U-groove Feed roll 1,0mm for PFA (per piece)	**PFADR10**
U-groove Feed roll 1,2mm for PFA (per piece)	**PFADR12**
U-groove Feed roll 1,4mm for PFA (per piece)	**PFADR14**
U-groove Feed roll 1,6mm for PFA (per piece)	**PFADR16**
Other diameters at request	

Feed Assist Accessories

Wall mount bracket

PFA-WM
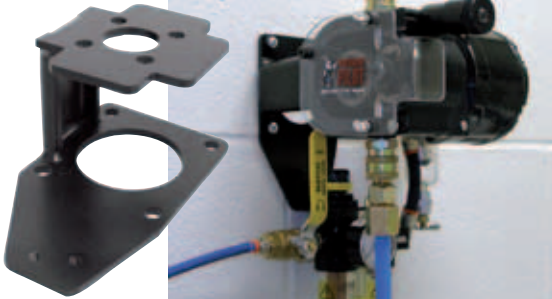
Advantages:
• PFA no longer mounted at drum cone
• Easy drum replacement
• No longer dependent on drum shape

PFA can be mounted to the wall/cell above the drum

Fits both PFA-models is supplied with bolts

A-1BC

A-1CS PFA

Order one extra inlet adapter
Either with quick disconnect
or ceramic insert

Single Solenoid kit

Solenoid valve kit used to reduce air consumption by the PFA during down time.

This 24 Volt valve kit is supplied with 10 Mtr cable and the needed 3/8 thread connectors and is mounted at FRL entrance.

The signal the solenoid uses can be connected parallel to the gas valve, or in case of SAW welding, parallel with the flux valve, in both cases the PFA will always be powered during welding.

Item no. PFA-SK

Double Solenoid kit for classic PFA with OILED-MOTOR

Double action solenoid valve kit used at classic PFA to feed and retract the wire if needed

Kit is supplied with:
• Filter/Regulator
• Liquidator (oil-unit)
• 24Volt Solenoid valve
• 2x 10 meter electrical cable
• 2x 2 meter pneumatic hose 8mm
• Pneumatic quick connectors 8mm with 1/4 thread
• Low threshold quick exhaust for motor outlet
• Exhaust filter

Solenoid needs to be powered by the robot controller

Item no. PFA-SK2

Double Solenoid kit for PFA-RB with OIL-FRE-MOTOR

Double action solenoid valve kit used at PFA-RB to feed and retract the wire if needed

Kit is supplied with:
• Filter/Regulator
• 24Volt Solenoid valve
• 2x 10 meter electrical cable
• 2x 2 meter pneumatic hose 8mm
• Pneumatic quick connectors 8mm with 1/4 thread
• Low threshold quick exhaust for motor outlet
• Exhaust filter

Solenoid needs to be powered by the robot controller
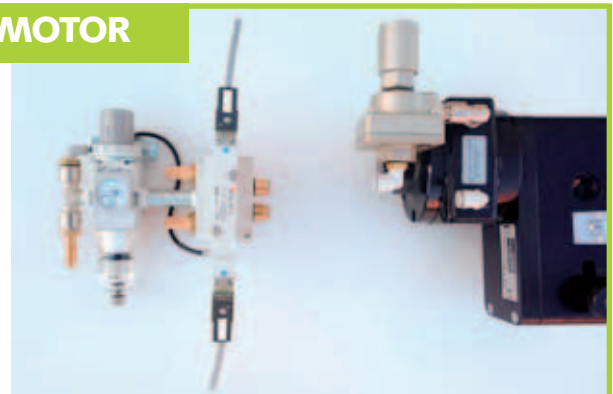
Item no. PFA-FRSK

Wire Guide Modules

- The new way of thinking in feeding wire
- What causes the friction in your wire supply?... the bends !
- Eliminate the bends, you will eliminate the friction
- Feed over 30 meters without assist

Lightweight durable polymer body

2x 45°degree wire guide modules combined to a 90° angle

Heavy duty rollers with bearings

Conduit connection going to feeder

Wire from source

- Create any bend you like by connecting the modules.
- For all kinds of wire from 0,6 to 2,4 mm
- Much cheaper than other roller products
- 3 YEARS GUARANTEE (excludes damage caused by contaminants)

Installation example

45° GUIDE MODULE

Assembled with End Caps

Wire guidance bushings included

90° GUIDE MODULE

WIRE GUIDE MODULE & END CAP ASSEMBLIES

Assembled with End Caps

A-5   For use with any male connector

A-10HM   For use with EC-4 Conduit

A-10XM   For use with FC-X Conduit
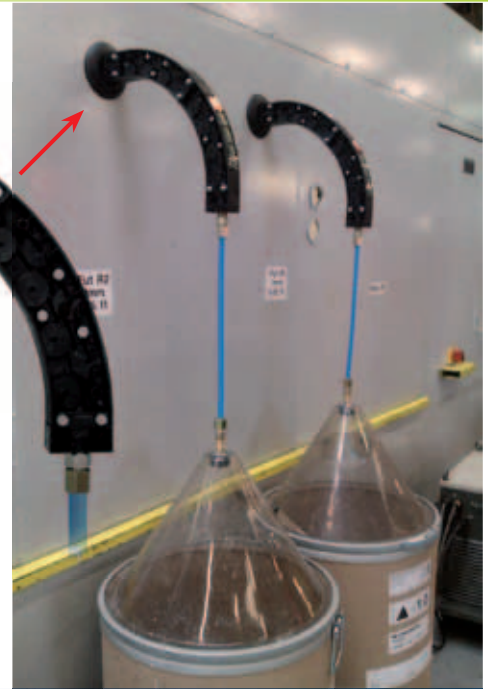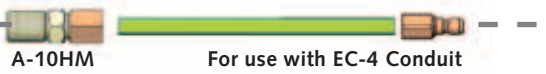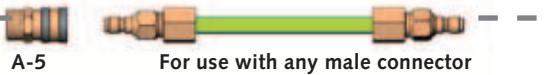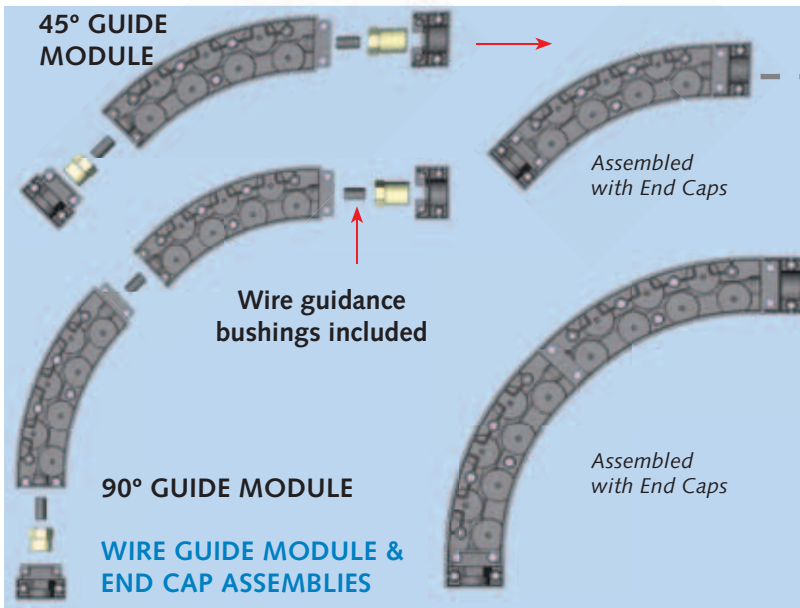
To wire feeder, choose the right adapter at page 10

A-5 — Double male connector assembly

A-10HM — EC-4 Conduit Assembly

A-10XM — FC-X Conduit Assembly

To drum or bigspool or in case of SAW to turntable

WWDP
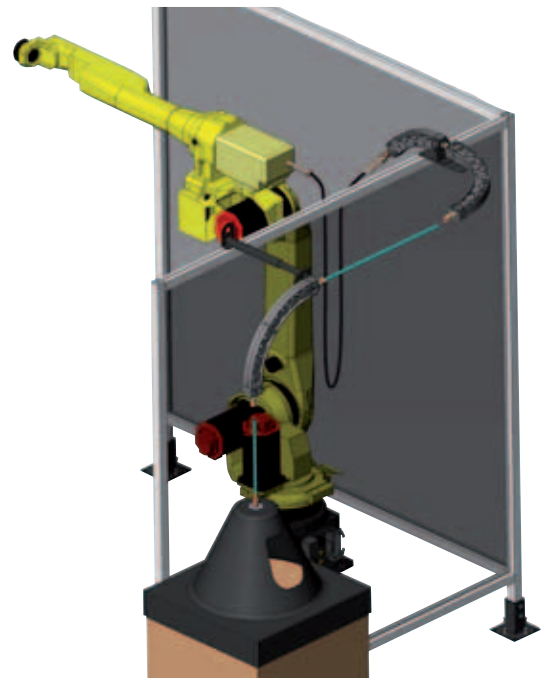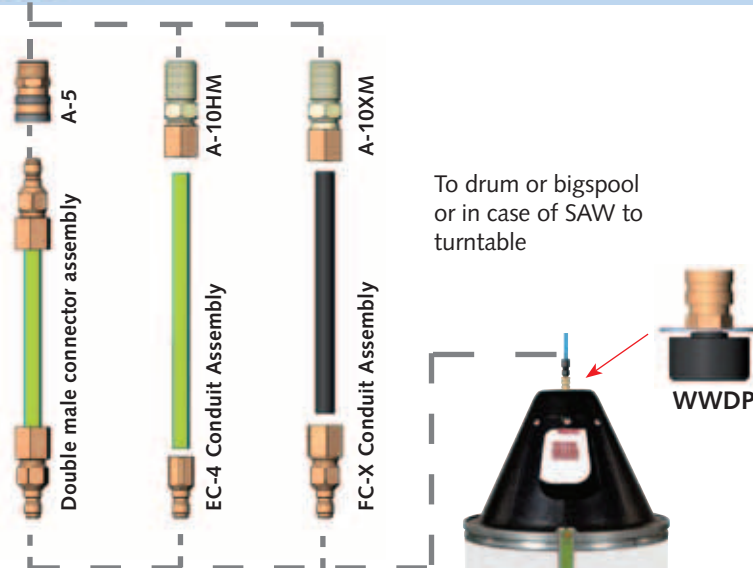
Wire Guide Modules

45° WIRE GUIDE MODULES

WGM-1

Standard module for wire up to 2,4mm

For larger wires look at page 24

90° MINI GUIDE MODULE

|- - - 6" (152mm) - - -|

Allows tight 90° turns for solid wires up to 1,6mm

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

END CAP CONNECTORS
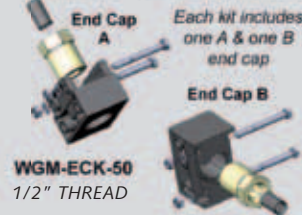
End Cap A

Each kit includes one A & one B end cap

End Cap B

WGM-ECK-50
1/2" THREAD

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-4 *(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

Screw-on Fitting (A-16F-#)
WGM-A5 Insulated Connector
Guide Module End Cap

Threaded Connector

Compression (A-10##)
A-5 Quick Disconnect

See catalog or website for additional options & accessories

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

Compression (A-10##)
WGM-A5 Insulated Connector
Guide Module End Cap

Threaded Connector

Swaged Fitting (Pre-cut only)
A-5 Quick Disconnect

See catalog or website for additional options & accessories

CONDUIT CONNECTORS

THREADED CONNECTORS

A-10HM
For EC-4-R

A-10XM
For FC-X

A-10RM
For FC-XH & EC-5
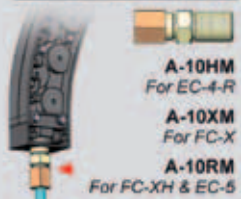
DETACHABLE QD CONNECTORS

WGM-A5
Insulated Connector with quick disconnect

A-5
female connector with 1/2" thread fits directly into the module endcap
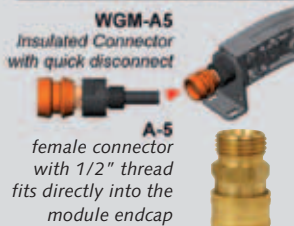
WELD-ON OR BOLT-ON MOUNTING BRACKET

Part # WGM-044

INSULATED FACE MOUNT BRACKET KIT
Allows 360° directional adjustment
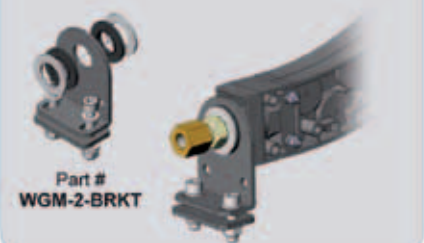
Part # WGM-2-BRKT

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

DRUM HOOD MOUNTING KIT

Part # WGM-DK

HOOD SWIVEL KIT

Allows 360° rotation on top of drum cover.

Part # WGM-HSK

GUIDE MODULE SWIVEL KITS
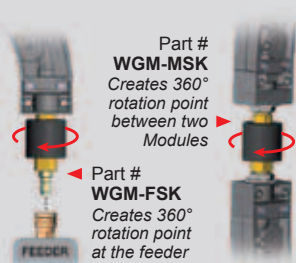
Part # WGM-MSK
Creates 360° rotation point between two Modules

Part # WGM-FSK
Creates 360° rotation point at the feeder

FEEDER

ADD-ON SWIVEL KITS
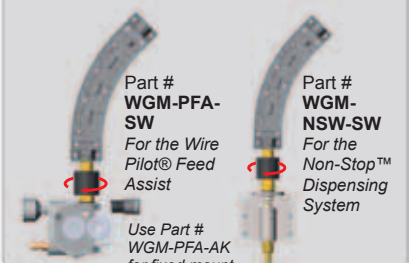
Part # WGM-PFA-SW
For the Wire Pilot® Feed Assist

Use Part # WGM-PFA-AK for fixed mount

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

L-BRACKET MOUNTING KIT
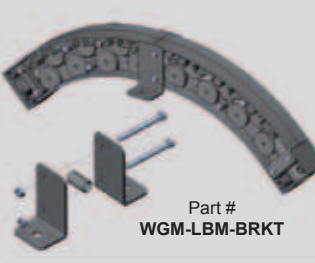
Part # WGM-LBM-BRKT

360° UNION ADAPTER KIT
Allows dual 360° directional adjustment

Part # WGM-UAK
Includes Bracket

Part # WGM-UA
Adapter Kit Only

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)

Wire Guide Modules

Installation example

outside weldcell

inside weldcell

WGM-1

WGM-ECK-50 (2nd Half)

WGM-ECK-50 (2nd Half)

WGM-1

Included

WGM-ECK-50 (1st Half)

A-5

WGM-WK-2-1

WGM-1

WGM-ECK-50 (1st Half)

A-10HM

EC-4

Installation example

WGM-1

WGM-1

WGM-1

WGM-ECK-50 (2nd Half)

WGM-ECK-50 1st Half

WGM-DK

A-10HM / A-10XM

EC-4 or FC-X
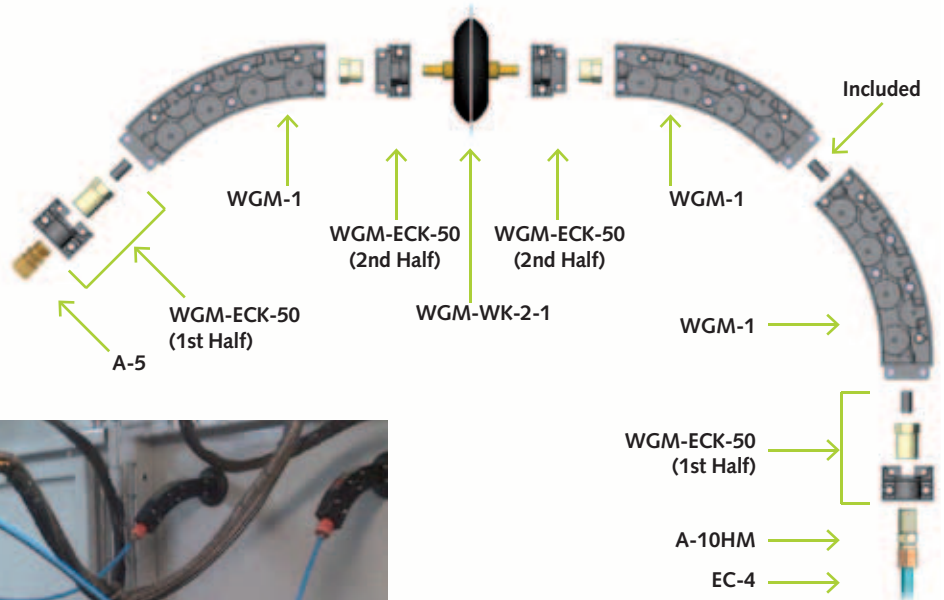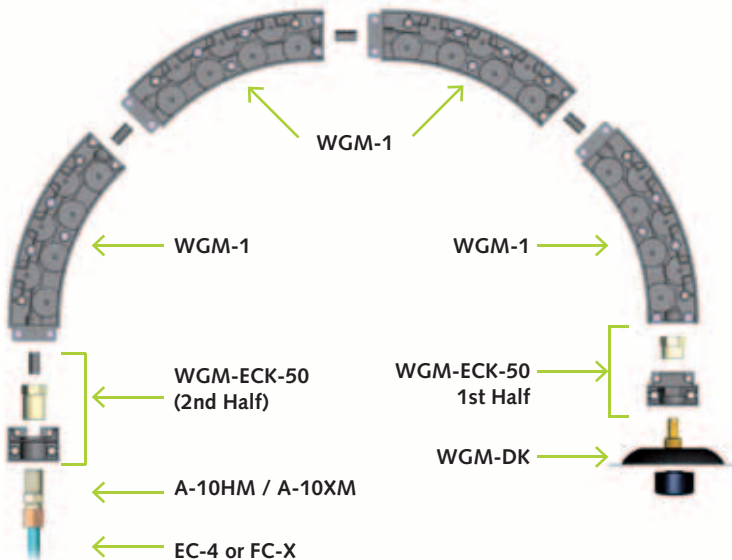
Application:
Automotive production plant
Drums at first floor above robotic installation

Data before modification		Data after modification	
Distance drum to feeder	: 6,6 Meter	Distance drum to feeder	: 6,6 Meter
Set-up	: Cheap plastic liner only	Set-up	: FC-X Liner + 180 module
Pull test	: Variating 3,5 - 7,0 Kg	Pull test	: constant 0,35 Kg
Feeder power	: 0,7 Ampere	Feeder power	: 0,15 Ampere
Maintenance	: Changing liner once in two weeks	Maintenance	: Free of maintenance for over three years

WIZARDGEAR
CABLE MANAGEMENT

Flex module cable chain

NEW

Featuring the same innovative concept as the other Wire Wizard Guide Modules, the FLEX Module is designed especially for welding applications with automated tracks, gantries and booms.

The FLEX Module is built up from segments with ball-bearing rollers guiding the wire. These rollers eliminate friction and drag on the wire, providing a smooth, consistent wire feed.

For wires 0,8mm – 1,6mm
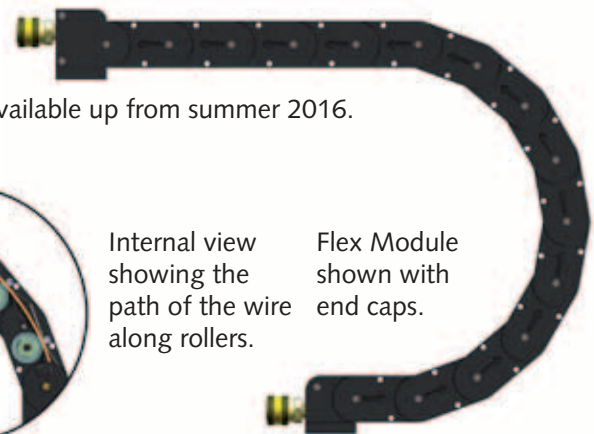
Expect to be available up from summer 2016.

Internal view showing the path of the wire along rollers.

Flex Module shown with end caps.

Compact Module 90

NEW

160 mm
205mm
185 mm
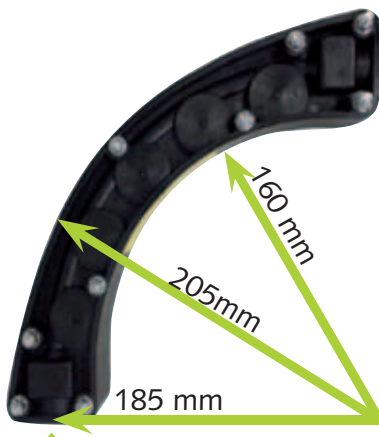
WGM-C1
IN: 1/4″ female thread
OUT: 1/4″ female thread

Choose one of the connectors with a 1/4″ thread to connect these compact modules.

New in the program.
"Compact 90 module"
The compact 90 module is only available in 90 degree angle and made as complete unit including end caps and connectors.

For cost- and space saving rollers are only made at the inner curve of the module.

Attention:
These compact modules cannot be built together with the regular modules and are mainly used at wire feeder entrance in case of tights robotic weld cells.

A-4   A-16MST   A-2FRO

Compact module made with direct feeder connection and female quick disconnect at entrance.
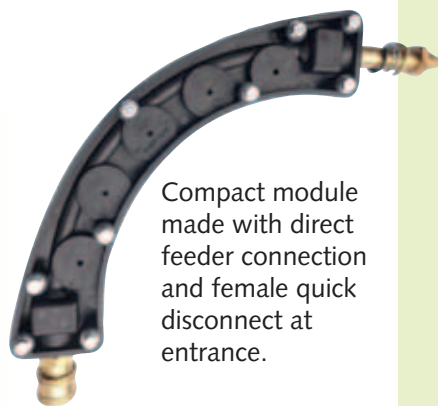
Submerged Arc Welding

Spiral Conduits

	Article	Dimensions	Connector	Wire	Order	Coil
	FC-XH	7,5 x 15,50 mm	A-10R	1,6 - 2,4 mm	Per mtr	30,5 mtr
	FC-XH-LW	10,0 x 19,00 mm	A-9+A6	2,4 - 4,8 mm	Per mtr	30,5 mtr
Polymer Conduits						
	EC-5	10,0 x 15,20 mm	A-10R	1,6 - 2,4 mm	Per mtr	152 mtr
	EC-6	14,0 x 19,00 mm	A-9+A6	2,4 - 4,8 mm	Per mtr	152mtr

HD Connector with large bayonet

6,5mm
11,8mm

9,8mm
14,9mm

A-6

A-6HD

Regular
Bayonet

Heavy duty
Bayonet
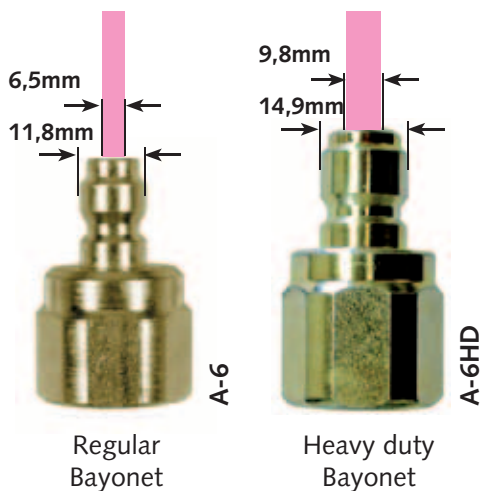
Specially for the large wire diameters used in Submerged Arc Welding Wire Wizard developed a range of connectors with a large Bayonet.
These HD connectors provide a larger feedthrough than the regular connectors and avoid the connector passage becomes a bottleneck in your system.

By using these heavy duty connectors wire shaving inside the connector can be avoid.

HD Combinations

A-9 + A-6HD
To connect FC-XH-LW or EC-6

A-4HD + A-1DSPFA
To use as outlet at PFA-unit

WWTT-DP-LW

HD Connectors with large bayonet

A-6HD	**A-16M-ST-HD**	**A-5HD**	**A-4HD**	**A-3HD**	**A-3HD12**
1/2"NPS	3/8"NPT	1/2"NPS	3/8"NPT	3/8"NPS	1/2"NPS

Wire Guide Modules

Mechanical turn tables

Remobale guide arm for easy drum change

WWTT-500
WWTT-500 W + Wheels

Lenght x Width = 76x66cm
Weight: 64,5 kg
Max. Load : 500 Kg

Bracket for mounting PFA-unit at Turn Table

Part # WWTT-PBS
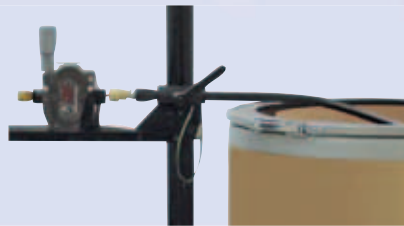
Length x Width:
100x100 cm
Weight: 95,00 Kg
Max. Load : 1.000 Kg

WWTT-1000: standard model
WWTT-1000-SP: including centre
WWTT-1000-SPS: including spider

PFA-Unit for SAW

Feedrollers

A-4HD+   OR   A-1BC-HD   PFA-FRL
A1-DSPFA
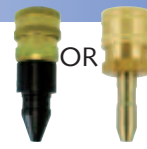
A1-CSPFA   OR   PFA-DA-HD   PFA-oil

Turn table   Drum cone

All items included   **1 mt hose**
in standard set

Product	Part no	Product	Part no
PFA unit for 2,0 mm wire (installation set included)	**PFA20**	U-groove Feed roll 2,0mm for PFA (per piece)	**WW053704**
PFA unit for 2,4 mm wire (installation set included)	**PFA24**	U-groove Feed roll 2,4mm for PFA (per piece)	**WW053703**
PFA unit for 3,2 mm wire (installation set included)	**PFA32**	U-groove Feed roll 3,2mm for PFA (per piece)	**WW053707**
PFA unit for 4,0 mm wire (installation set included)	**PFA40**	U-groove Feed roll 4,0mm for PFA (per piece)	**WW05M532**
PFA unit for 5,0 mm wire (installation set included)	**PFA50**	U-groove Feed roll 5,0mm for PFA (per piece)	**WW05M316**

Wire Guide Modules for Large Wire

- Up to 5,0mm wire
- Steel ball-bearing rollers
- Eliminate friction in bends
- Eliminate slipping feed motor
- Easy connected with conduit

Modules can be used in combination with PFA-unit

50 cm

42 cm

46 cm
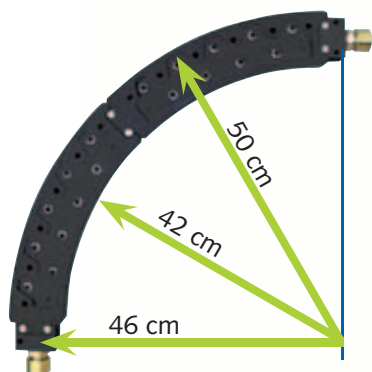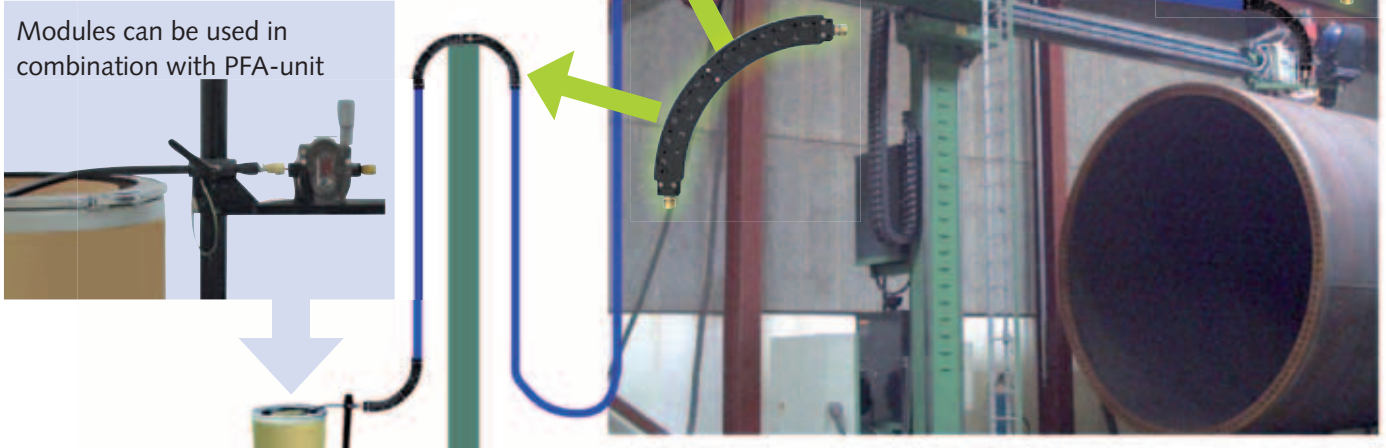
LW-Modules in use

- 3 x WGM-LW-1
- 1 X WGM-LW-ECK50
- 2 x A-9
- FC-XH-LW Conduit
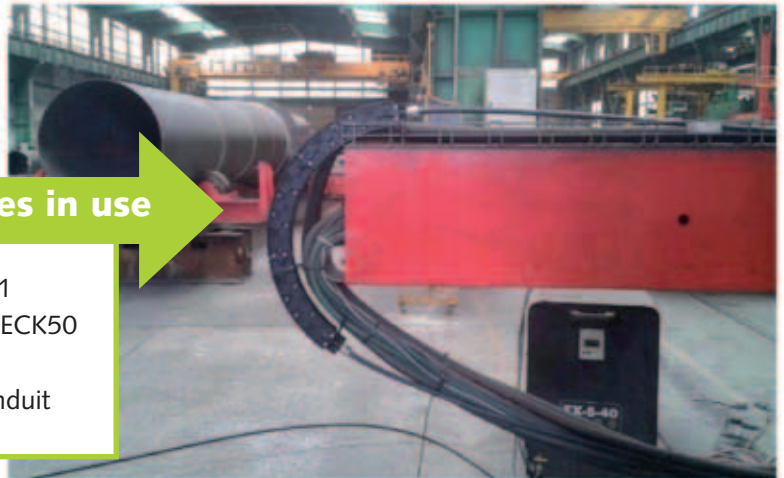
Wire Guide Modules accessoires

Large Wire
Guide Module
for wire up to 5,0 mm
Part # WGM-LW-1
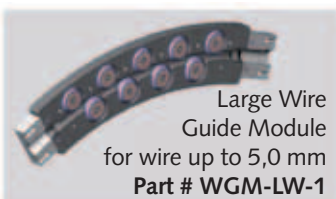
Conduit connector
for FC-XH-LW & EC-6
Part # A-9

1/2″ BSP

Hanger/support
bracketfor XL-Modules
Part # WGM-LW-BRKT

Part # WGM-4-BRKT

Bracket
to mount
XL-Modules
to the
Turn Table

XL-Modules end-caps
Part # WGM-LW-ECK50

Quick disconnect
for Bayonet
(see page 22)
Part # A5-HD   1/2″ BSP Thread

**Part #
WGM-
DP-LW**

Direct pull inlet adapter made of
Delrin with ceramic insert
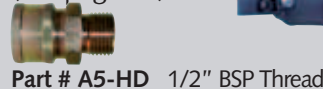
Conduit clamp for
mounting
FC-XH-LW
or EC-6 to
the boom
Part # EC6-CC

Big spool dereeling arms

New dereeling arm with guide modules

- Runs up to 76 cm spools
- Made with magnetic adjustable brake
- Made with ball-bearing modules
- Suitable for all wires up to 1,6 mm
- Minimum friction inside dereeling arm
- Ceramic inlet guide at spool side
- Universal base plate

Part # RW1039-C41

NEW

Traditional dereeling arms

- Runs up to 76 cm spools
- Made with drag brake
- Suitable for all wires up to 1,6 mm
- Ceramic inlet guide at spool side
- Universal base plate

For non-ferro wires the dereeling arm is made with polymer liner EC-4

Part # RW1030-C33

For mild steel wires the dereeling arm is made with steel liner FC-X

Part # RW1031-C33

Adjustable stand for PFA

into PFA

onto guide arm

PFA-AS-I

PFA-AS
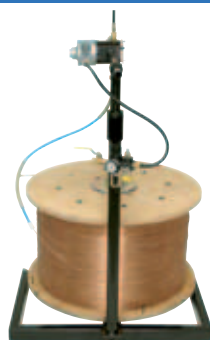
Wood reel accessories

RWC1111-30
POLYETHYLENE WOOD REEL COVER

WRSC
STAGING CART

A unique process joins the end wire form a used empty drum with the start wire of the next full drum. Both butt-welding and flash removal operations take only minutes and the two wire ends can be joined during welding.

- 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 Pneumatic Feed Assist or Wire Guide Modules
- Works with one- and two-station robotic cells (2 or 4 drums)
- Accepts any fiber drum or cardboard wire packaging design
- Easy-to-use resistantce Butt-Welder & Wire Dresser available

Framework also available as wall-mount

Optional Barrel Empty Signal Flag

220 Volt hand-held Buttwelder

WW-BW

BW-WP

Wire Parters leaves flat wire ends for

BW-WD

220 Volt Mini grinder to clean the weld and assure easy passage through contact tip

.045 .052
.035 .062

WW-GB
Gage block.
Made to test the buttweld after cleaning whether it is good enough to run through the

NSW-FF
Finish flag for endless wire system.
Is springloaded and locked downwards when a new drum is installed. The swing pushes the flag out of its lock letting it pop up as a signal that one of the two

End-less wire by using wire detection sensor

HOW IT WORKS
- Step 1 Drum is empty and wire end passes the sensor
- Step 2 The sensor signals stops the welding
- Step 3 Disconnect conduit at "A" and place Cone at the new drum
- Step 4 Feed the new wire through the conduit
- Step 5 Weld the old wire end to the new wire end with the butt welder
- Step 6 Push the overlength into the drum and connect the conduit again at "A"
- Step 7 Start welding again

To welding machine or robot

Sensor with sensor block see page 5 for article numbers

A

A-14BK bracket kit or PFA-unit with wall bracket in case

short conduit few meters only
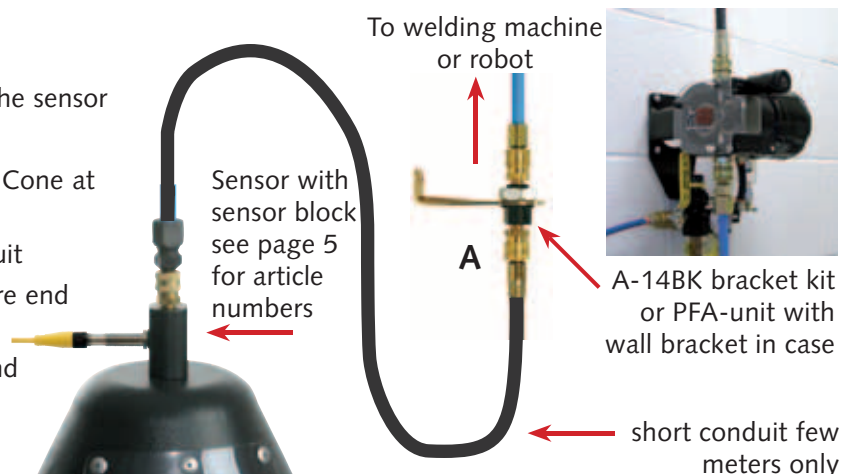
Non-Stop Wire Dispensing 2

- **Eliminates productionloss caused by empty drums**
- **Eliminates downtime for wire changeover**

COMPONENTS & BASIC SETUP
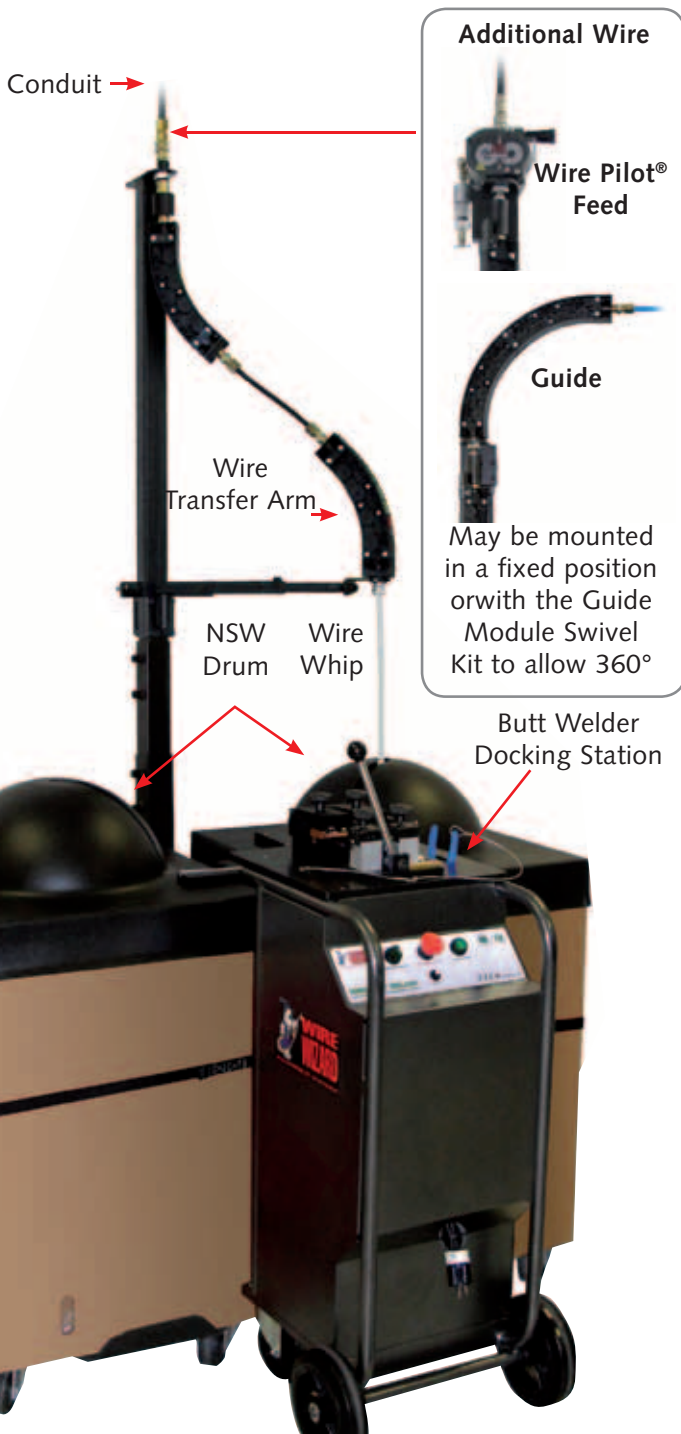
DRUM SETUP

Single Torch Unit
(with round drums)

2-Torch Unit
(with round drums)

Drum 1   Drum 2

Start Wire   Start Wire

End Wire

Conduit

Additional Wire

Wire Pilot® Feed

Guide

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

Wire Transfer Arm

NSW Drum   Wire Whip

Butt Welder Docking Station
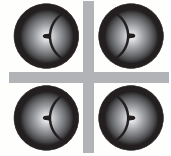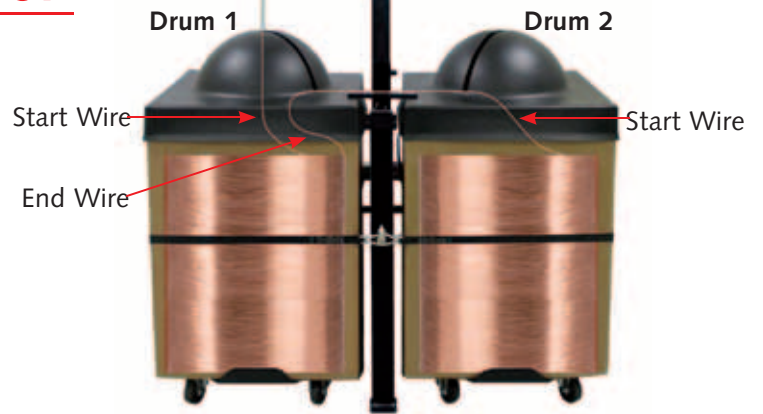
1
Join the end wire from drum 1 with the start wire from drum 2 using the Butt Welder.
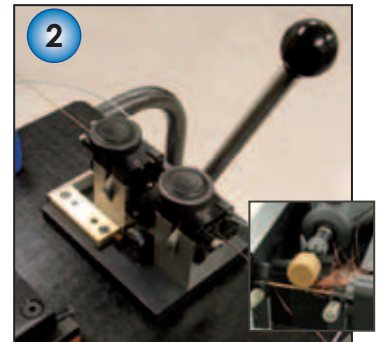
2
Remove the flash in the wire joint using the Wire Sizer (or rotary tool with stone bit).
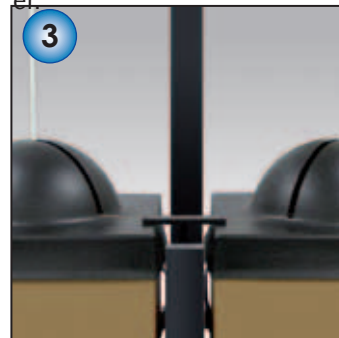
3
Position the wire on the pathway between the two drums.
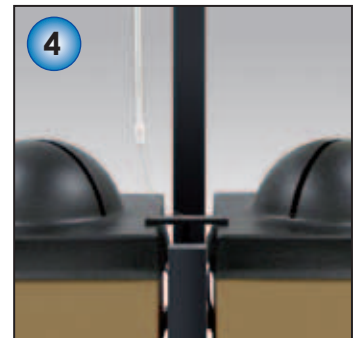
4
When wire from drum 1 runs out, the transfer arm will switch over to drum 2. Simply replace empty drum and repeat steps 1-3.

Anti-Spatter Solutions

Spatter shield the new way of anti-spatter

WHAT IS SPATTER SHIELD?
Spatter Shield is a revolutionary new way of anti-spatter.
- **Up till now we protected the work piece against the spatter.**
- **From now on we protect the spatter against the work piece.**

How does it work??
The Spatter Shield unit contains a special fluid which is atomised into the shielding gas. This mist creates a shielding layer around the spatter which makes that it won't stick to the work piece, tooling or jig. The same shielding layer is created at the torch parts which are herewith protected as well.

The unit is easily installed and one 135ml bottle of fluid can be used to weld up to 450 Kg of welding wire. Works for mild steel and Stainless steel but not for Aluminium.

MIG Transit Sprayer 135

NEW

GAS IN

Magnet ventil

Valve

Gas flowmetter

Welding gas

GAS OUT
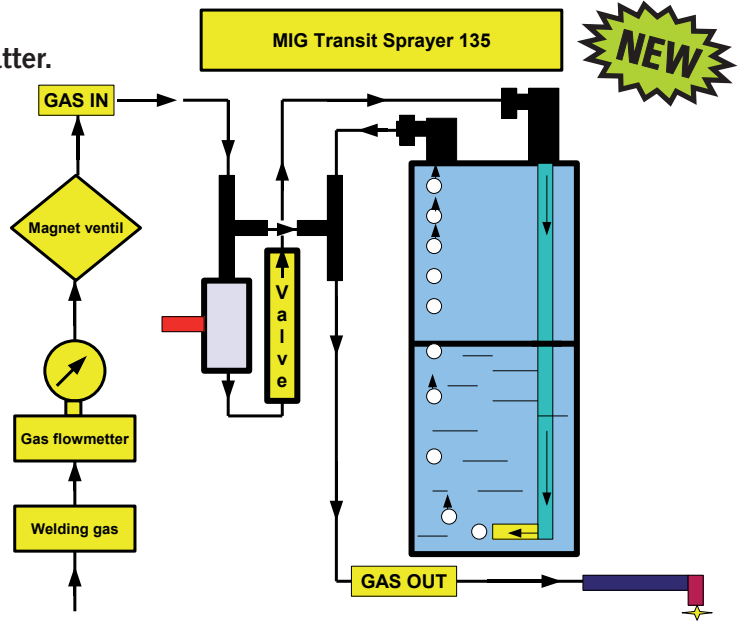
Unit Part # WW-SSU
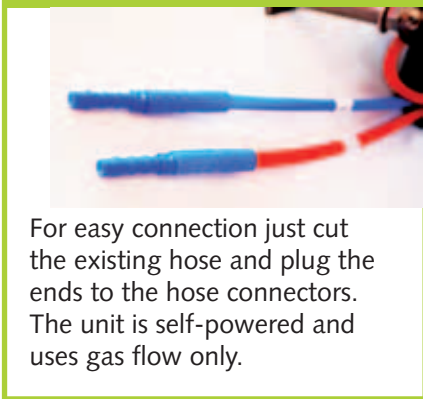
Connections

For easy connection just cut the existing hose and plug the ends to the hose connectors. The unit is self-powered and uses gas flow only.

Fluid

The 135 Ml refill bottle has the capacity to weld up to 450 Kg of welding wire
Part # WW-SSF

Regulator

With the regulator the amount of atomised mist can be adjusted

Mounting kit

For easy mounting to robot or welding machine.
The swing keeps the unit in vertical position

![WIRE WIZARD WELDING PRODUCTS]

Anti-Spatter Solutions

Spatter shield the new way of anti-spatter

- Less or no after treatment of workpiece
- Less cleaning cycles of torch needed
- Longer lifetime of torch consumables
- Longer lifetime of jig and tooling
- Clean weld cell by using less fluids
- MORE PRODUCTION

Soon Available:
Spatter Shield liquid
to use in your
cleaning station
Part # WW-SSL

NEW

Part # WW-SSU
Unit w/o fluid

Part # WW-SSF
Spatter Shield Fluid

Consumables
before
after

Tooling
before
after

Work piece
before — after
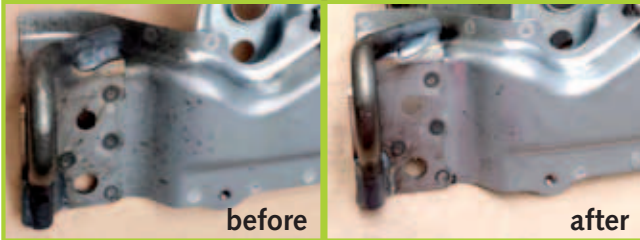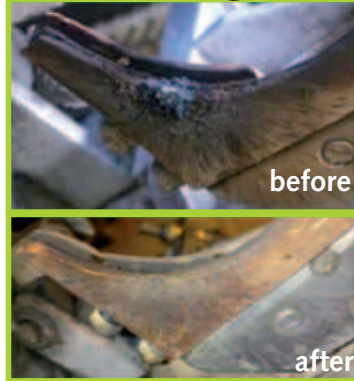
Traditional anti-spatter

For the traditional use of anti-spatter Wire Wizard offers the range of Blue Magic anti-spatter products. This cost effective, environmentally safe product provides a superb performance even in high temperature applications.
- Non-flammable no harmful chemicals
- Biodegradable low pH-level
- Contains no silicone
- Perfect paint over properties

Blue magic™ concentrate

To avoid high freight costs we can also supply the Blue Magic™ in a concentrate.

This concentrate is sold in 19 liter jerrycans and can be mixed with de-onized water to a total of 200 liter of Blue Magic ant-spatter.

Blue Magic™ Concentrate EAS1000-CC

Blue Magic™

ITEM	PART NO.
1 Liter Bottle	EAS1000-C32
3,8 Liter Bottle	EAS1000-C1
19 Liter Jerrycan	EAS1000-C5
200 Liter Jerrycan	EAS1000-C

Torch products

Torch liner made of elliptical wire

NEW

Wire Wizard expands its product range to cover all parts that touches the wire. Therefor the Elliptical wire technology used for the FC-X conduit is now also available for torch-liners. Besides the Elliptical shape the liner has a patented coating for an extreme smooth surface.

Problems in wire feeding at CMT installation? E-Power is the perfect solution for all wire feed problems.

Comparison pull-test Competitor v.s. E-Power liner

72% LESS FRICTION!

Competitor round wire galvaneel coating

Wire	: 1,2mm
Speed	: 4,5 M/min
Lenght	: 4,6 mtr
Min pull	: 1,97 Kg
Max pull	: 3,62 Kg
Average	: **2,87 Kg**

E-power Elliptical wire E-Power coating
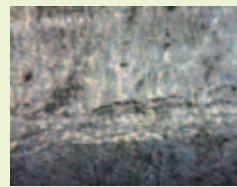
Wire	: 1,2mm
Speed	: 4,5 M/min
Lenght	: 4,6 mtr
Min pull	: 0,51 Kg
Max pull	: 1,06 Kg
Average	: **0,82 Kg**

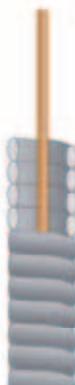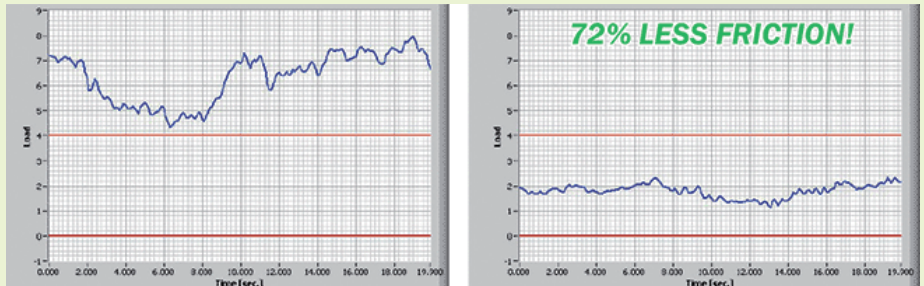| Part #	IDxOD	Wire	Length	Connection
WTPB354506	2,0 x 4,7mm	1,0 – 1,2mm	1,8 mtr	EURO
WTPB354510	2,0 x 4,7mm	1,0 – 1,2mm	3,0 mtr	EURO
WTPB354515	2,0 x 4,7mm	1,0 – 1,2mm	4,6 mtr	EURO
WTPB354525	2,0 x 4,7mm	1,0 – 1,2mm	7,5 mtr	EURO
WTPB2047B	2,0 x 4,7mm	1,0 – 1,2mm	30 mtr (coil)	None
WTPB2547B	2,5 x 4,7mm	1,2 – 1,6mm	30 mtr (coil)	None
WTPB3047B	3,0 x 4,7mm	1,6 – 2,0mm	30 mtr (coil)	None

Torch liner made of heat resistant polymer

Within the range of the torch products Wire Wizard also supplies a heat resistant Carbon-polymer torch-liner for all non-ferritic wires. The Carbon-polymer liner is more rigid and has better feeding properties as the competitor made of Teflon.

Part #	IDxOD	Wire	Length	Connection
WPHTL1547	1,5 x 4,7mm	0,6 – 1,0mm	30 mtr (coil)	None
WPHTL2347	2,3 x 4,7mm	1,2 – 1,6mm	30 mtr (coil)	None
WPHTL3247	3,2 x 4,7mm	1,8 – 2,4mm	30 mtr (coil)	None

POWERBALL
TIPS & DIFFUSERS

The Powerball system exchanges your actual diffuser and contact tip with a Powerball diffuser and contact tip. The new diffuser is made with a copper insert for a copper-to-copper current transit.
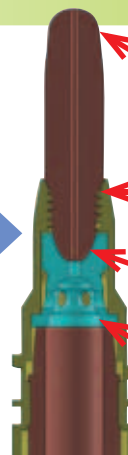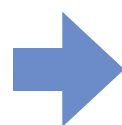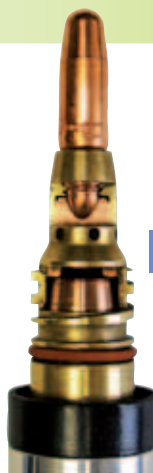
Round contact tip to prevent burn back

Buttress thread for more contact surface

Round tip seating for better current transit

Copper insert inside brass-copper diffuser

The copper-to-copper power-transit
results in the following benefits:
- **Better conductivity**
- **Less heat build-up in torch parts**
- **Better cooling in gas diffuser**
- **Less spatter build up**
- **Energy saving**

Five PowerBall tip styles available

Available for most air cooled torches and more to come. Gas cups also soon available. Ask for info about your torch.

38mm Tip (PB-1)   30mm Tip (PB-2)   38mm Heavy Duty/High Amp. Tip (PB-3)   30mm Heavy Duty/High Amp. Tip (PB-4)   38mm Tip for Small Torch Nozzles (PB-5)

Conduits and cable protection

Wire Wizard supplies a range of cable sleeves made out of Kevlar with an Aluminized coating. These sleeves protect your costly cable assembly for wear and welding spatter. The sleeve is made with a heavy duty zipper and a Velcro enclosure to seal it tightly.

Part #	diam ø	Length
KCS-2-12-A	50 mm	30 cm
KCS-2-24-A	50 mm	60 cm
KCS-2-36-A	50 mm	90 cm
KCS-2-48-A	50 mm	120 cm
KCS-4-12-A	100 mm	30 cm
KCS-4-24-A	100 mm	60 cm
KCS-4-36-A	100 mm	90 cm
KCS-4-48-A	100 mm	120 cm

HD zipper
Cable assembly
Velcro straps
HD Velcro closure
Male/Female Velcro for chainlink
Tie wrap tunnel
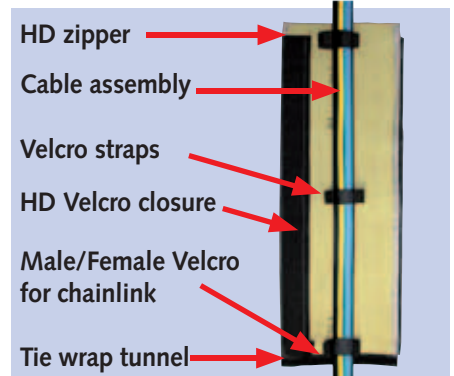
Non-flammable drum covers

Wire Wizard fire resistant drum covers provide a protection against cardboard drums catching fire. When drums stand near or inside the weld-cell the cardboard of the drum is a potential fire risk. Available for round, square and octagon drums.

Shape	Size	Article
Round	53 cm	DC-21R
Round	60 cm	DC-24R
Square	54 cm	DC-21S
Square	62 cm	DC-24S
Octagon	53 cm	DC-21O
Octagon	60 cm	DC-24O

Support Equipment

Universal stand for PFA and Module Mounting

Wire Wizard offers a solution for stand-alone drums. This stand makes it possible to mount the modules or PFA above the drum without support from the cell-wall.

Since there is no equipment mounted at the drum cone, drums are easy to change.

Stand is supplied with one arm and can be extended with more arms or a spool holder.

Part #	Description
WW-US	Universal Stand + arm
WW-USA	Additional Arm
WW-USSH	Spool-holder + bracket

WIZARDGEAR CABLE MANAGEMENT

NEW

The new WizardGear line of robot cable management products provides organization, support and protection for all lines and cables attached to robots. Keep cables free 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.

TORCH WIZARD AP
ALL PNEUMATIC NOZZLE CLEANING STATION

NEW

The new Torch Wizard AP Nozzle Cleaning Station is a fully pneumatic operating unit giving you an easy to install and easy operating solution for gas cup cleaning. The nozzle inlet accepts 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 3,8 Ltr container for used anti-spatter. Two year warranty with exclusive use of Blue Magic anti-spatter.

CE-MARKET Handling Equipment

Drum lifter with safety hooks

- CE- certified
- Designed for ECO-Drums
- Usable with straps or handles
- Capacity: 500 Kg
- Weight 8 / 9 Kg

51-52 cm
Part # FDL-21

58-61 cm
Part # FDL-24

Drum lifter, model FDL

CE-certified

- Spring loaded clamp holds drum firmly in place
- For fiber or steel drums
- Accepts diameters from 47 cm to 66 cm

Weight   : 11,4 kg
Capacity   : 453 kg

NOTE: Drum rim must be within 25 mm of the top of the drum. Content weight must not exceed the drum manufacturers' packing limit.
Drums must be closed with lids properly sealed.

FDL DRUM LIFTER

FDL DRUM LIFTER WITH **FDL-FA**

Heavy duty drum DOLLY ROUND

- Non-conductive wheels
- 7,5 cm Textile wheels
- HD Roller bearings
- Easy movable
- Deck height 12 cm
- Capacity: 500 Kg
- Weight 10,5 Kg

Part # FDD-21
Up to 53 cm

Part # FDD-26
Up to 66 cm
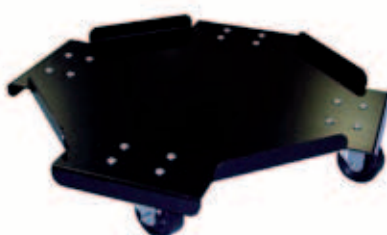
Heavy duty drum DOLLY REVERSABLE

Part # FDD-MD

- Deck usable in two ways
- Non-conductive wheels
- 7,5 cm Textile wheels
- HD Roller bearings
- Easy movable
- Deck height 11 cm
- Capacity: 500 Kg
- Weight 10,5 Kg

Build up for small drums
Up to 54 cm

Build up for big drums
Up to 64 cm

Support equipment 1

Retractable conduit balancers & hangers

CONDUIT BALANCER
3 SIZES AVAILABLE

CONDUIT HANGER
3 SIZES AVAILABLE

- Balancer provides easy method of hanging conduit & cables
- Conduit Hanger prevents excess droopage
- Prevents conduit and cables from hanging in areas where they could get damaged

PART NO.	DESCRIPTION
RCH-2	Conduit Balancer - 1–2 kg - 1.6 mtr
RCH-4	Conduit Balancer - 2–4 kg - 2.0 mtr
RCH-8	Conduit Balancer - 6–8 kg - 2.0 mtr
CHH-10	25 cm Conduit Hanger w/two Retaining Straps
CHH-16	40 cm Conduit Hanger w/four Retaining Straps
CHH-22	56 cm Conduit Hanger w/four Retaining Straps

Inert gas savers

- Reduces gas consumption
- Restricts gas surge upon arc starts, screen also prevents blockage
- Can be installed on the inlet or outlet side of the gas solenoid*

GAS SAVERS - INCLUDE SCREENS & JETS 2 or 3

| PART NO.	THREADS	JET LOCATION
GFJ- 2D or 3D	1/4" Male NPT x 1/4" Female NPT	Male End
GF- F2 or F3	1/4" Male BSP-GAS x 1/4"-19 Female BSP-GAS	Female End

GAS SAVER FLOW JETS

PART NO.	JET	2,0 BAR	2,4 BAR	2,8 BAR	3,2 BAR	3,6 BAR	4,0 BAR
GFJ-2*	2	14,0 Ltr/Min	15,5 Ltr/Min	17,0 Ltr/Min	18,5 Ltr/Min	20,0 Ltr/Min	21,5 Ltr/Min
GFJ-3*	3	23,5 Ltr/Min	26,0 Ltr/Min	28,5 Ltr/Min	31,0 Ltr/Min	33,5 Ltr/Min	36,0 Ltr/Min
		Jet 2 for Mig and Tig welding /Jet 3 for heavy Mig welding					

Gas Saver for Inlet Side of Solenoid

GFJ-2D
GFJ-3D

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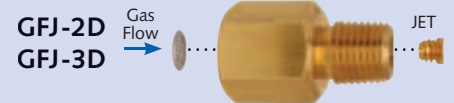
Gas Saver with BSPP Threads (Fronius® style)

GFJ-F2
GFJ-F3

JET ..... Gas Flow ←
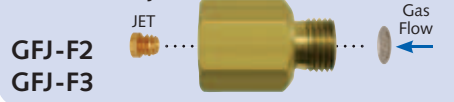
Manual Gas Flow Gauge EL-GFM
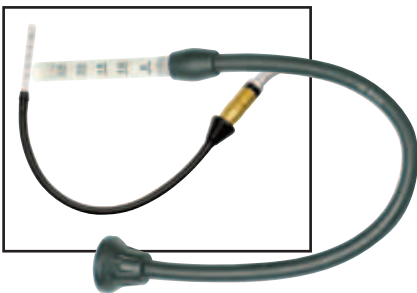
- Measures the actual gas flow (l/min)at the gascup
- Flexible hose for easy operator readings

PART # EL-GFM

Gas flow switch EL-RVMU

- Detects if gas flow is too high or too low
- Switches off in case of gas flow error
- Usable as normally open or closed
- Flow range 0,5-25 Ltr / min
- 1/8 Thread connection
- 24 VDC – max 55mA

PART # EL-RVMU

Digital Gas Flow sensor EL-GMP

- Measures the precise gas flow at gascup or in gas main
- Pre-calibrated at all common gas mixtures
- With totalizing option to measure gas-usages
- With RS-232 serial output
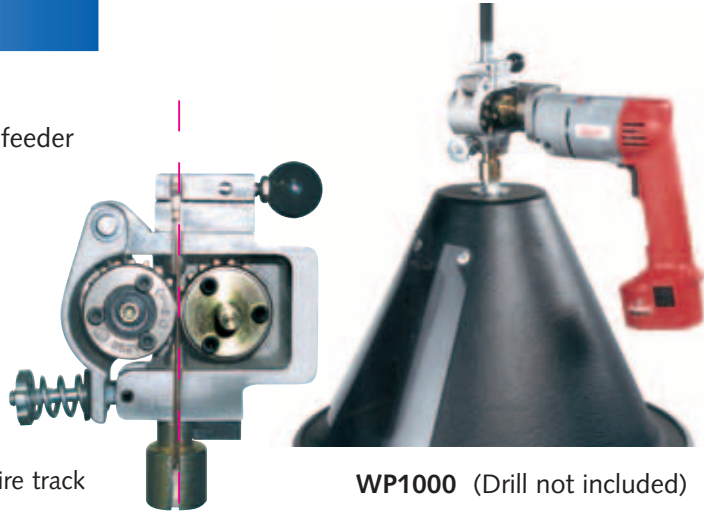- Operates at 9 volt battery

PART # EL-GMP

Wire pilot, Model WP1000

- Designed to feed weld wire from the source to the feeder
- Engage/disengage wire in seconds
- Accommodates 0,8 to 3,2 mm wire diameters
- Changeable drive rolls

- An 800RPM or less, 10 mm
  variable speed drill is recommended.

Specify wire diameters for all units when ordering

Open wire track

WP1000 (Drill not included)

Wire feed sensor, Model HHSS

This hand-held battery operated tachometer is capable to measure the exact wire speed in meters per minute or meters per hour. This makes it possible to use the HHSS to calibrate your wire feeder. The HHSS also has a function to totalize the amount of wire in meters or centimeters. This function can be very helpful in order to measure the amount of welding wire used during a certain period. For example to measure the amount of wire used to weld a product.
The HHSS can be placed between any male and female Wire Wizard quick disconnect. To place or remove the HHSS the wire don't need to be cut.

HHSS installed at the wire source

Additional Features
- Plugs into existing wire system and conduits
- Handles wire diameters from 0,8 up to 3,2 mm
- Rugged aluminum construction with Delrin wire guide head
- Displays wire speed with automatic floating decimal point
- Also available without connector base for hand held measuremnets at the torch.
  Order article HHSS-12 for this option.

HHSS-12 obtaining measurement at the torch end

Wire draw gauge, Model WWPT

The electronic 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).

Additional 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

WWPT
WIRE DRAW GAUGE

WIRE WIZARD
WELD WIRE DISPENSING SYSTEM

WIRE WIZARD®
WELDING PRODUCTS
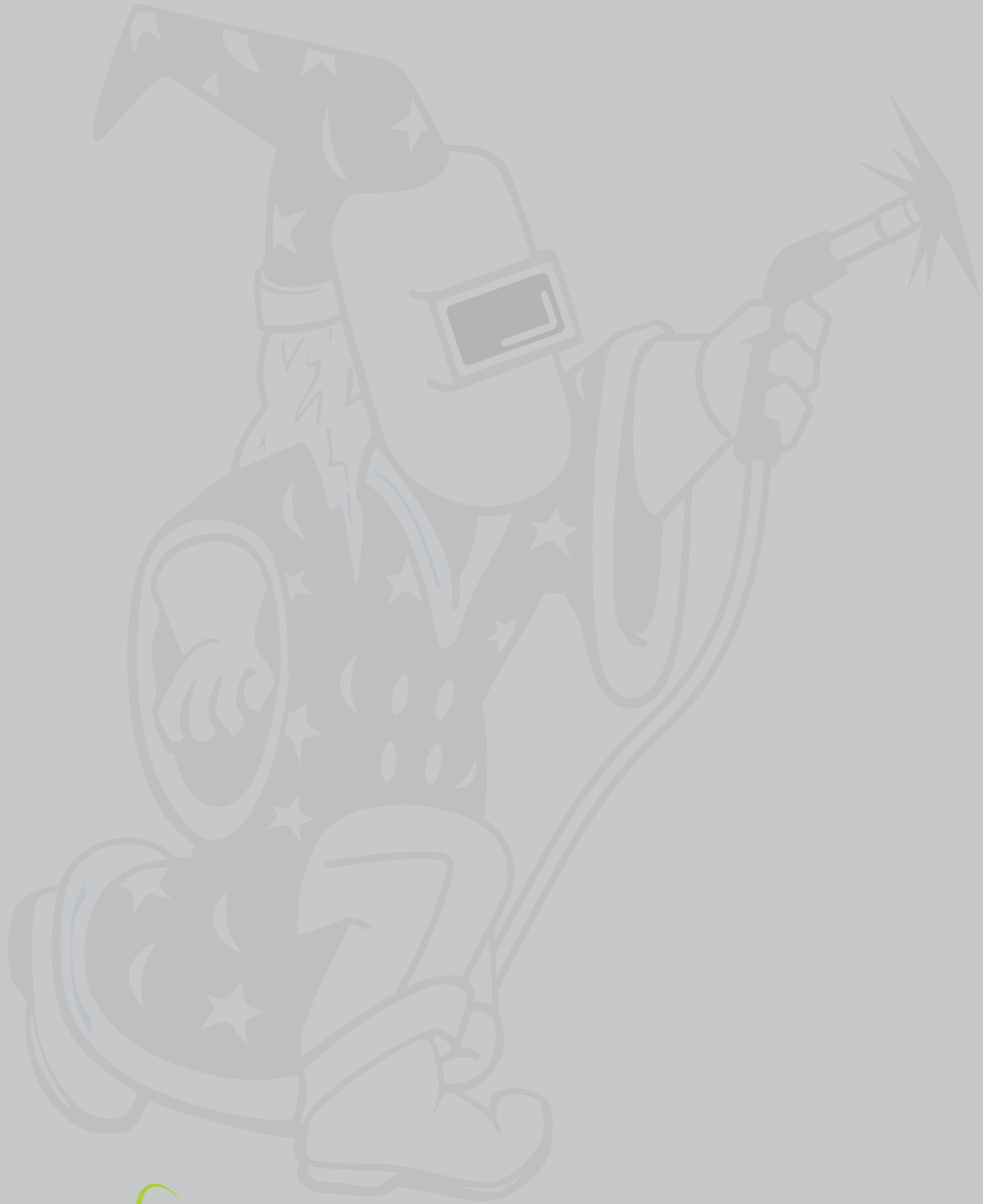
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