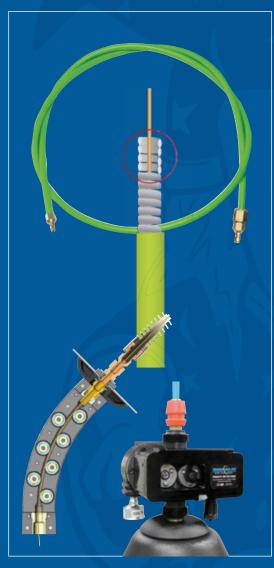




the art of wire feeding





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



Introduction

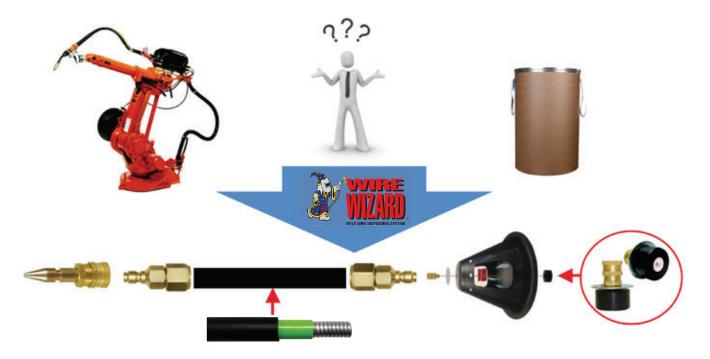
Dear Welding Associate,

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*







Step 1 - Cone's

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 WW10201F 51 cm WW10231F 58 cm 67 cm WW10260F

Octagon drum cone

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

Size in cm 52 cm 60 cm

Part Number WWOC205 WWOC235 H

Size in cm 60 cm

Part Number 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 Nur
54 cm	WWSC-
61 cm	WWSC-
72 cm	WWSC-

mber 21 24 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





Step 2 - Cone connectors

Direct pull kit



The WWDP is the most universal coneconnector 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.



Cone Connector insulator Insulator for WW-QDI the drum connection WW-DI Universal insulatotion sleeve for all quick disconnects.

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

Wire detection

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



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 drumcone by using WWDP

WW-OA-20H



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.

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





Step 3 - Conduits for Mild Steel

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	Dimensions in mm	Connector	Use for	Order	Bulk
	Number	inside x outside		wire	quantity	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 I	FC-X line	er is the stand	ard for M	IG/MAG w	elding	
	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



Cut your conduit at the right length with a cutter or angle grinder ATTENTION: DO NOT STRIP IT

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



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

strain relief

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





Conduits Stainless Steel & Aluminum

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



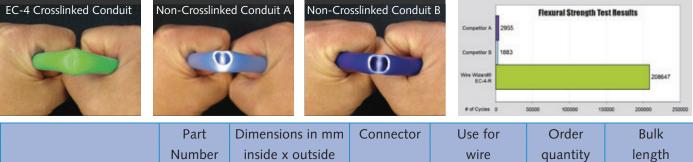
The Wire Wizard polymer conduit is made of a cross-linked polymer which unites all the best in one

- Low friction coefficient
- Extended wear
- High durability
- Light in weight

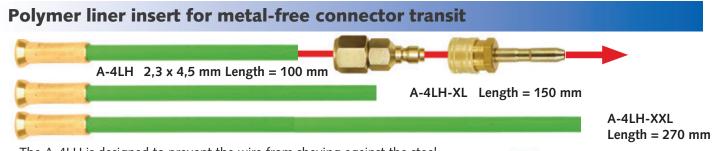
Tested for maximum durability by continuously flexing it back and forward. The EC-4 lasts over 200.000 times

That's the amount of the leading competition times 70!





	ιαπ		Connector	030101	Oluci	DUIK
	Number	inside x outside		wire	quantity	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						
					6	
	EC-5	10,0 x 15,20 mm	A-10R	1,6 - 2,4 mm	Per mtr	152 mtr



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



Step 4 - Conduit connectors

Connectors for extra flexible conduit

Conduit	Compression	Press-on	In-Line	Union	ēr
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		e articel number
FC-X	A-10CX	A-11X	A-10-XM		relief add -SR to the
FC-XH	A-10R	A-11XH	A-10RM	A-10RU	a strain
FC-XH-LW	A9 + A6	A-11XH-LW	A -9	A-9U	For connectors with

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		-SR to the articel number
EC-4	A-10CH	A-16F4	A-10HM		
EC-5	A-10R	A-16F5	A-10RM	A-10RU	ors with a strain relief add
EC-6	A9 + A6		A-9	A-9U	For connectors with

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	
A-9-FE	A-10RFE	A-10XFE	A-10CFE	A-10SFE	FC-XH-LW & EC-6	A-9-FE	



Step 5 - Feeder connectors 1

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

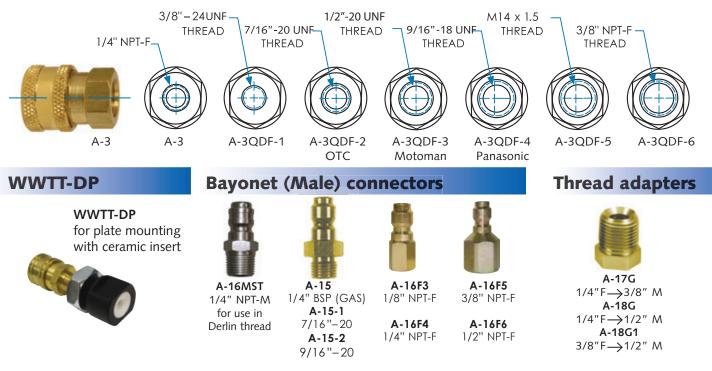
To help you choose the right adapter we made a selection of the most used ones



Quick disconnects (FEMALE)



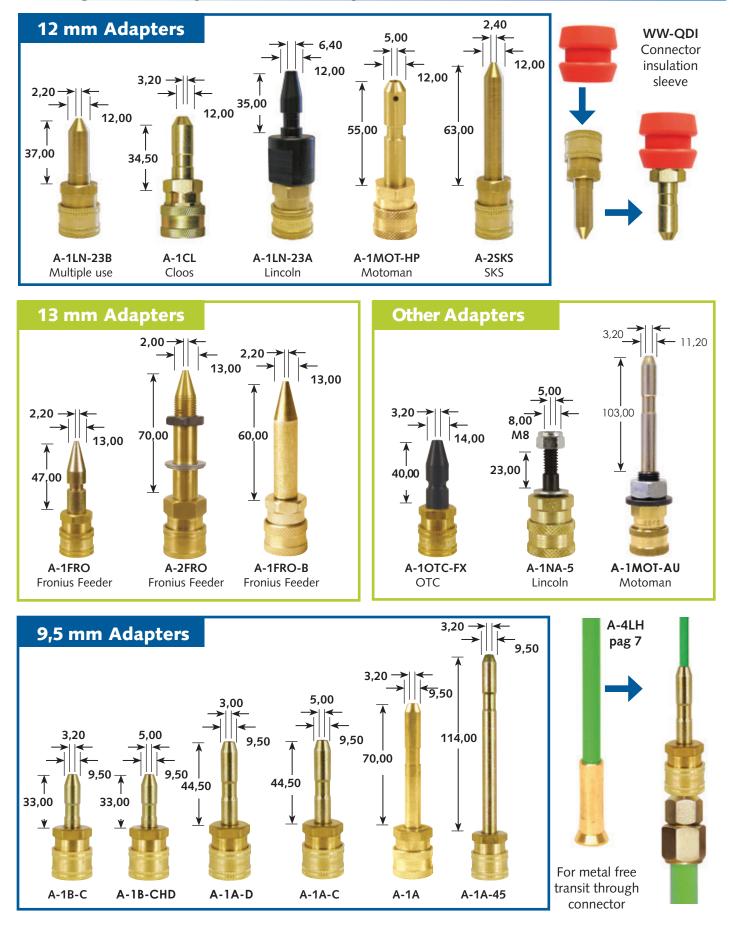
Quick disconnect with inside thread to mount directly at the inlet guide of the feeder





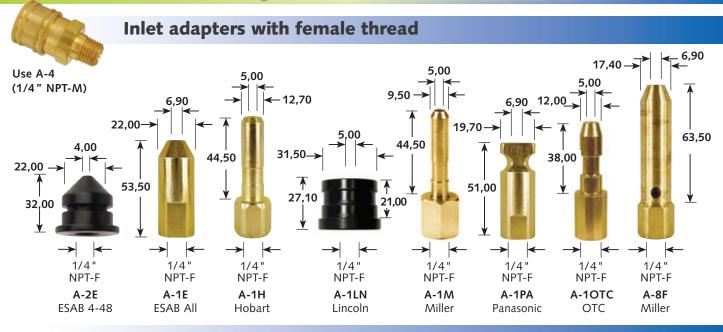
Step 5 - Feeder connectors 2

Inlet guides with quick disconnect special for one brand

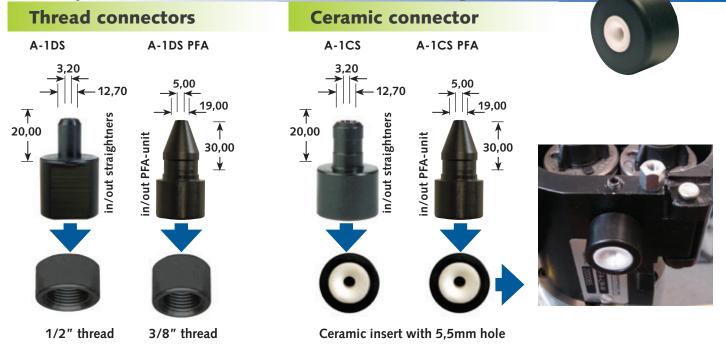




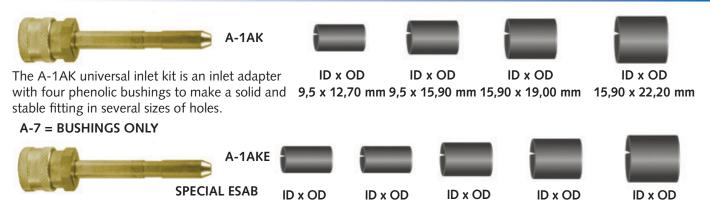
Step 5 - Feeder connectors 3



Derlin-plastic connectors for insulated feed through



Universal inlet guide with quick disconnect

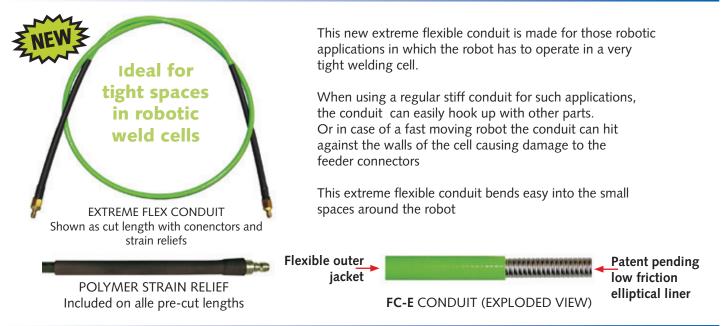


9,5 x 12,00 mm 9,5x 12,70 mm 9,5 x 15,70mm 15,90 x 19,00 mm 15,90 x 22,20 mm



Step 5 - Extreme Flexible Conduit

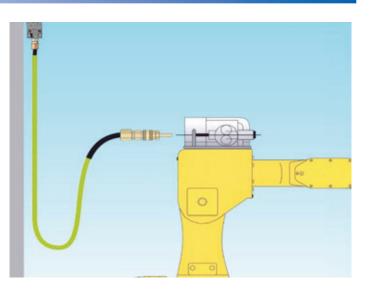
Extreme flex conduit



Available lengths and connectors

ZARD CONNECTOR
FCE030W
FCE050W
FCE075W
FCE100W
At feeder / drum

vvizard male bayonet fits wizard female QD



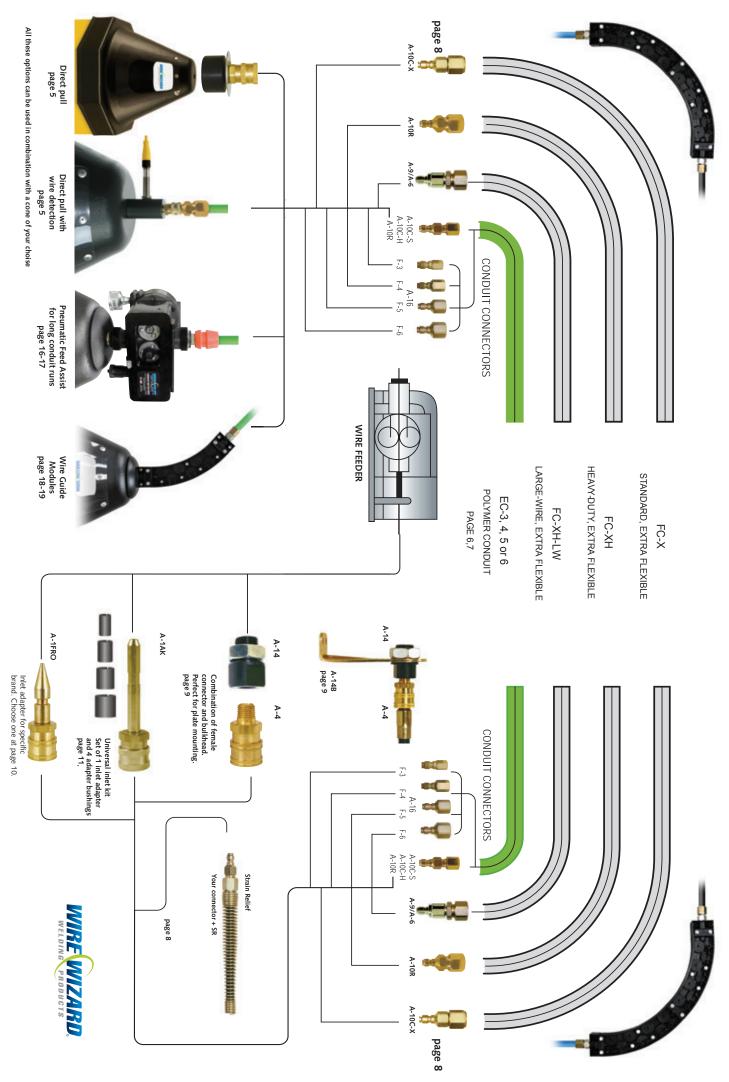
FCE WITH PANASO	NIC CONNECTOR	FCE WITH THREAD	CONNECTOR
3,0 m	FCE030P	3,0 m	FCE030A
5,0 m	FCE050P	5,0 m	FCE050A
7,5 m	FCE075P	7,5 m	FCE075A
10,0 m	FCE100P	10,0 m	FCE100A
2x at conduit	At feeder / drum	2x at conduit	At feeder / drum
3			
Panasonic fits Nitto HI (Cupla Ace connector	9/16"-18UNF thread f	its Asian style feeders



Wire straighteners



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.





Pneumatic Feed Assist - PFA



Application



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.



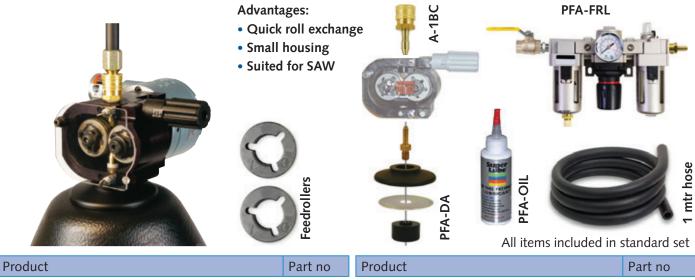
Features

- 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



PFA unit for 1,0 mm wire (installation set included)	PFA10	U-groove Feed roll 1,0mm for PFA (per piece)	WW072000
PFA unit for 1,2 mm wire (installation set included)	PFA12	U-groove Feed roll 1,2mm for PFA (per piece)	WW053701
PFA unit for 1,4 mm wire (installation set included)	PFA14	U-groove Feed roll 1,4mm for PFA (per piece)	WW053702
PFA unit for 1,6 mm wire (installation set included)	PFA16	U-groove Feed roll 1,6mm for PFA (per piece)	WW053706
Other diameters at request		Other diameters at request	

New PFA-RB with oil-free motor

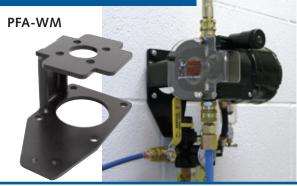


Product	Part no	Product	Part no
PFA unit for 1,0 mm wire (installation set included)	PFA10RB	U-groove Feed roll 1,0mm for PFA (per piece)	PFADR10
PFA unit for 1,2 mm wire (installation set included)	PFA12RB	U-groove Feed roll 1,2mm for PFA (per piece)	PFADR12
PFA unit for 1,4 mm wire (installation set included)	PFA14RB	U-groove Feed roll 1,4mm for PFA (per piece)	PFADR14
PFA unit for 1,6 mm wire (installation set included)	PFA16RB	U-groove Feed roll 1,6mm for PFA (per piece)	PFADR16
Other diameters at request		Other diameters at request	



Feed Assist Accessories

Wall mount bracket



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



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.



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

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-SK2

Item no. PFA-FRSK



- 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

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

going to feeder

Wire from source

Lightweight durable polymer body

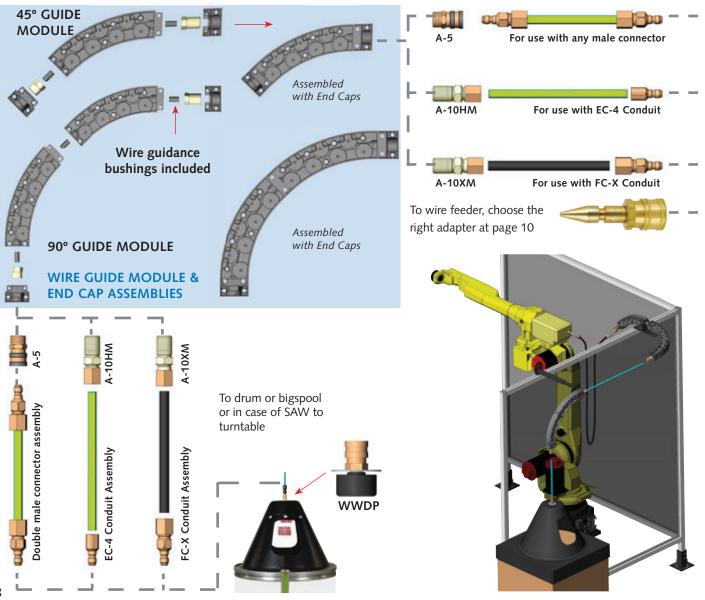
• Create any bend you like by connecting the modules.

Heavy duty rollers

with bearings

- 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

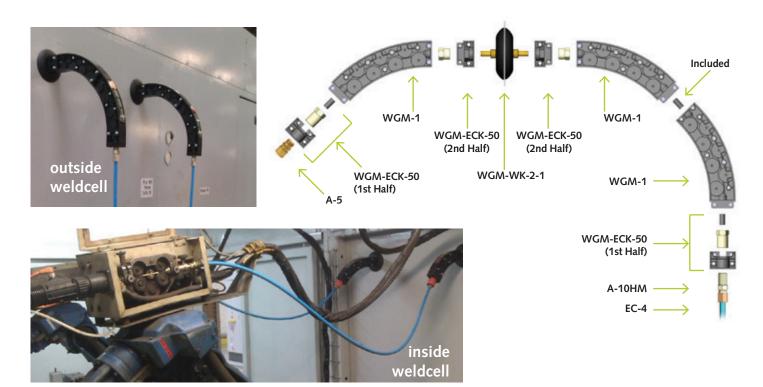




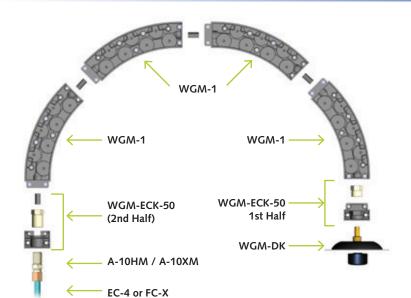




Installation example



Installation example





Application: Automotive production plant Drums at first floor above robotic installation

Data before modification

Distance drum to feeder : 6,6 Meter Set-up : Cheap plastic liner only Pull test : Variating 3,5 - 7,0 Kg Feeder power : 0,7 Ampere Maintenance : Changing liner once in two weeks

Data after modification

Distance drum to feeder Set-up Pull test Feeder power Maintenance

: 6,6 Meter : FC-X Liner + 180 module : constant 0,35 Kg : 0,15 Ampere : Free of maintenance for over three years



The FLEX Module is built up from segments with ball-bearing rollers guiding the wire. These rollers eliminate friction and drag

Internal view

showing the

along rollers.

path of the wire

on the wire, providing a smooth, consistent wire feed.

Expect to be available up from summer 2016.





Compact Module 90

05mm

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.

Flex Module

shown with

end caps.

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



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



gantries and booms.

For wires 0,8mm - 1,6mm





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 Condui	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	

Bayonet.

be avoid.

in your system.

By using these heavy duty

connectors wire shaving inside the connector can

HD Connector with large bayonet



Regular Bayonet Heavy duty Bayonet

HD Connectors with large bayonet



HD Combinations

Specially for the large wire diameters used in Submerged Arc

Welding Wire Wizard developed a range of connectors with a large

These HD connectors provide a larger feedthrough than the regular

connectors and avoid the connector passage becomes a bottleneck





Mechanical turn tables



A1-CSPFA

PFA unit for 5,0 mm wire (installation set included) **PFA50**

PFA-DA-HD All items included in standard set

U-groove Feed roll 5,0mm for PFA (per piece)

PFA-oil

1 mt hose

Turn tab	le D	Drum	cone
iuni lad	IE L	Juin	cone

OR

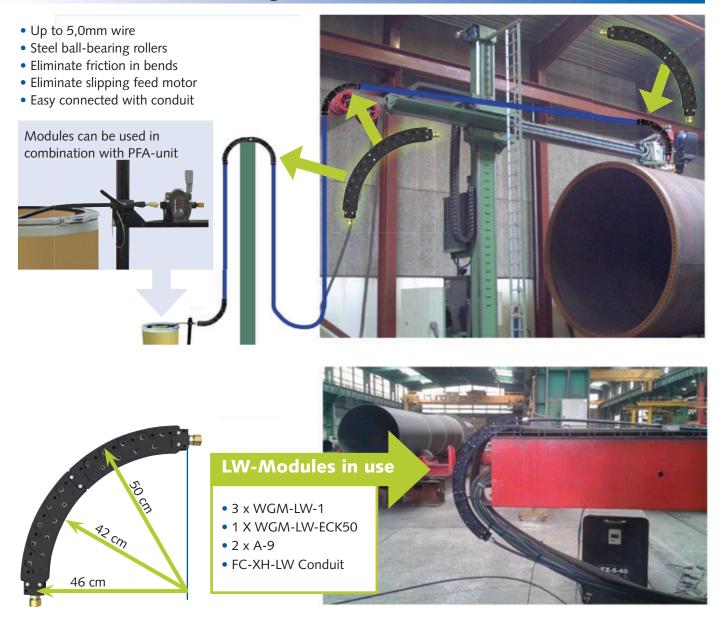
Product	Part no	Product	Part no
			1
PFA unit for 2,0 mm wire (installation set included)	PFA20	U-groove Feed roll 2,0mm for PFA (per piece)	WW053704
PFA unit for 2,4 mm wire (installation set included)	PFA24	U-groove Feed roll 2,4mm for PFA (per piece)	WW053703
PFA unit for 3,2 mm wire (installation 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

WW05M316



Submerged Arc Welding

Wire Guide Modules for Large Wire



Wire Guide Modules accessoires









Direct pull inlet adapter made of Delrin with ceramic insert

Part # WGM-4-BRKT







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





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 $\ensuremath{\mathsf{FC-X}}$

Part # RW1031-C33

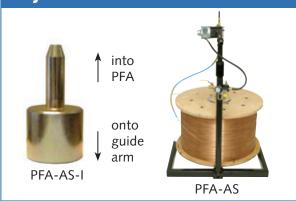
Wood reel accessories



RWC1111-30 POLYETHYLENE WOOD REEL COVER

WRSC STAGING CART

Adjustable stand for PFA





Non-Stop Wire Dispensing 1

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.

Framework also available as wall-mount

> Optional **Barrel Empty**

Signal Flag

- 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

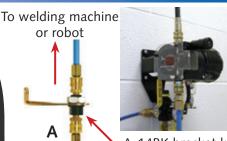


End-less wire by using wire detection sensor

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

Sensor with sensor block see page 5 for article numbers



or robot

Α

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





Anti-Spatter Solutions

Spatter shield the new way of anti-spatter

WHAT IS SPATTER SHIELD?

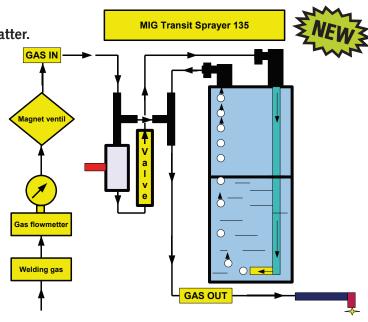
Spatter Shield is a revolutionary new way of anti-spatter.

- 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.









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**





Part # WW-SSU Unit w/o fluid Part # WW-SSF Spatter Shield Fluid





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 MagicTM 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



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.



Torch liner made of elliptical wire



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

0.Md



Competitor round wire galvaneel coating E-power Elliptical wire E-Power 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



4.000

72% LESS FRICTION!

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

16.000 18.000 19.00

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

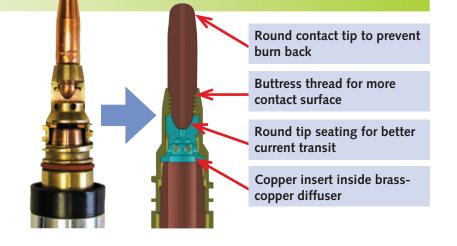
Within the range of the torch products Wire Wizard also supplies a heat resistant Carbon-polymer torch-liner for all non-ferritic wires.

				1 2	1
Part #	IDxOD	Wire	Length	Connection	Th
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	СС
WPHTL3247	3,2 x 4,7mm	1,8 – 2,4mm	30 mtr (coil)	None	

The Carbon-polymer liner is more rigid and has better feeding properties as the competitor made of Teflon.



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.





Torch products

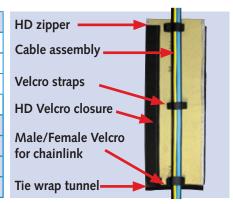




Conduits and cable protection

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



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-210
Octagon	60 cm	DC-240





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		



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.



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



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 sim must be within 25 mm

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.

Heavy duty drum DOLLY ROUND



Up to 53 cm

• Non-conductive wheels

FDL DRUM LIFTER

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



FDL DRUM LIFTER WITH FDL-FA

Heavy duty drum DOLLY REVERSABLE



Build up for small drums Up to 54 cm



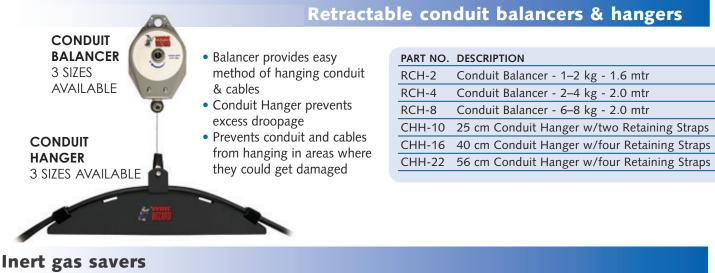
Build up for big drums Up to 64 cm

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



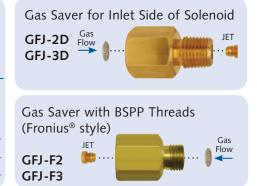
Support equipment 1



- 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

0/13 5/		.s melo		5 0 5 2 1 5 2	01.5		
PART NO).	THR	EADS			JET L	OCATION
GFJ- 2D or 3D 1/4" Male NPT x 1/4" Female NPT Male End					End		
GF- F2 (GF- F2 or F3 1/4" Male BSP-GAS x 1/4"-19 Female BSP-GAS Female End				ale End		
GAS SA	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	g and Tig we	lding /Jet 3	for heavy M	ig welding	



Manual Gas Flow Gauge EL-GFM



- Measures the actual gas flow (I/min)at
- the gascup
 Flexible hose for easy operator readings

PART # EL-GFM

Gas flow switch EL-RVMU

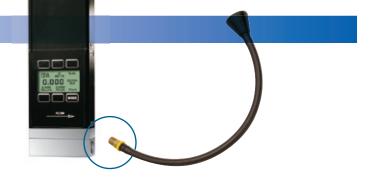
- Detects if gas flow is too high or too low
- Switches off in case of gas flow error
- Usable as normally open or closed
- Flow range 0,5-25 Ltr / min
- 1/8 Thread connection
- 24 VDC max 55mA



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





Support equipment 2

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.

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 UUSS 42 for this antice
 - Order article HHSS-12 for this option.

HHSS installed at the wire source



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







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