



SAF-FRO

PROTIG NG

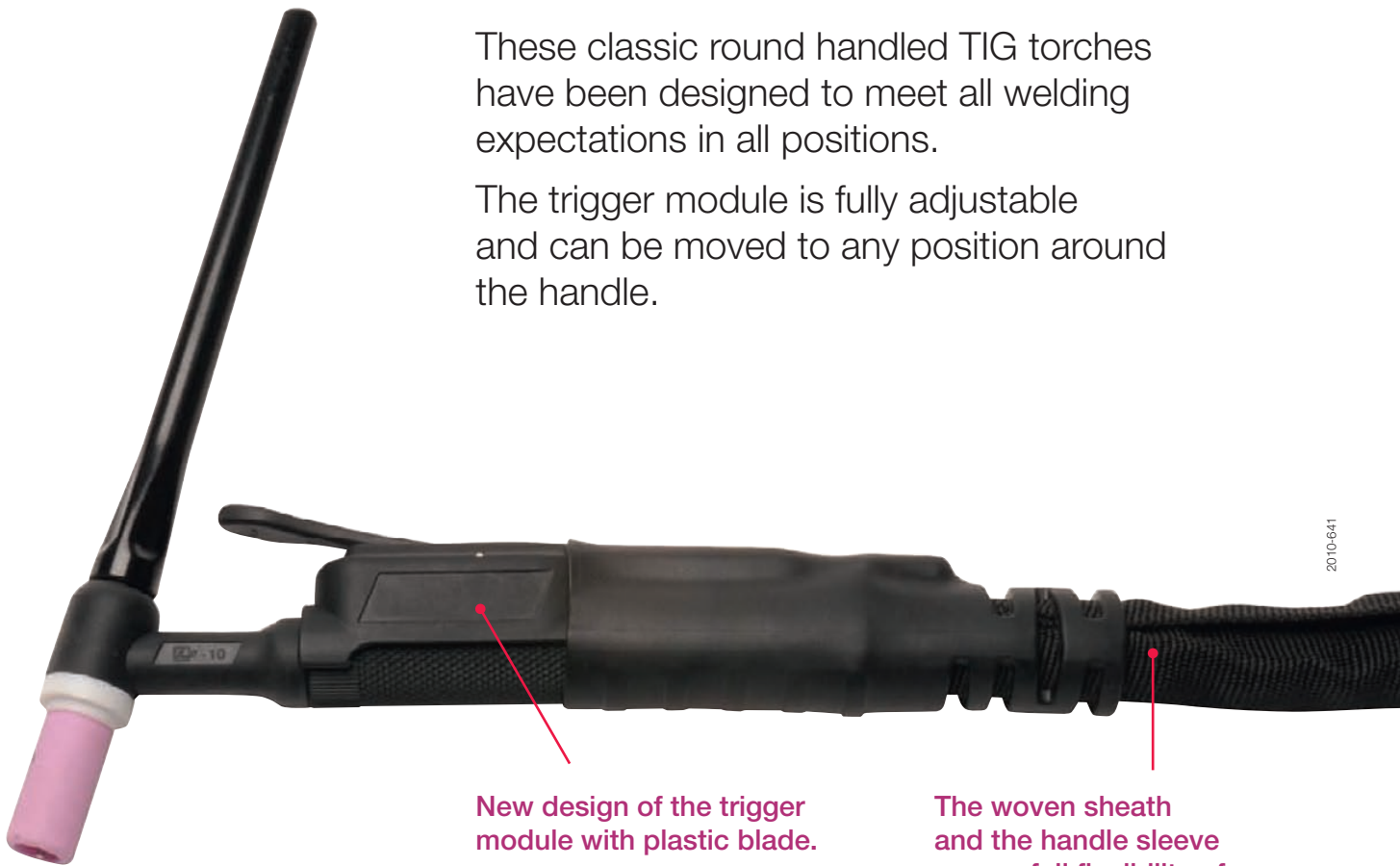
Manual TIG Welding Torches



New range



Round handle series (RL),
designed for worksite applications.
Easy to handle, and easy to maintain.



These classic round handled TIG torches have been designed to meet all welding expectations in all positions.

The trigger module is fully adjustable and can be moved to any position around the handle.

New design of the trigger module with plastic blade.

- Safety: electrical isolation.
- Esthetic: no corrosion.

The woven sheath and the handle sleeve ensure full flexibility of the harness.



New design



Ergonomic handle series (EB), designed for workshop applications. Very comfortable to use, with various options in a modular system.

The best SAF-FRO TIG torches with an advanced ergo-design, using a colored soft grip for a maximum welder comfort.

These torches will give you an optimum welding quality, and increase the communication between the welder and the machine.



The modular system brings a increased control over the power source.

All torches are delivered with a single button module.

The ball joint gives excellent flexibility, and the first 1 m of the harness is leather which increases the service life of the welding hose.



The range of PROTIG NG includes 4 air cooled, and 3 water cooled types

All torches are supplied ready to use
the standard fitting table gives more information

											
		PROTIG NG 10		PROTIG NG 20		PROTIG NG 30		PROTIG NG 40			
Duty cycle 35%		125 A		150 A		200 A		250 A			
Duty cycle 60%		80 A		100 A		130 A		200 A			
Fitted as standard	back cap	long		long		long		long			
	nozzle	Ø 10 mm		Ø 10 mm		Ø 12 mm		Ø 12 mm			
	electrode	Ø 1,6 mm		Ø 2,0 mm		Ø 2,4 mm		Ø 2,4 mm			
Length		5 m	8 m	5 m	8 m	5 m	8 m	5 m	8 m		
Handle	Connector	RL	S	W000278353	W000278355	W000278356	W000278357	W000278358	W000278359	W000278360	W000278361
		RL	C5B	W000278366	W000278367	W000278368	W000278369	W000278370	W000278371	W000278372	W000278373
		EB	C5B	W000278394	W000278395	W000278396	W000278397	W000278398	W000278399	W000278400	W000278401

									
		PROTIG NG 10 W		PROTIG NG 35 W		PROTIG NG 40 W			
Duty cycle 100%		250 A		350 A		450 A			
Fitted as standard	back cap	long		long		long			
	nozzle	Ø 12 mm		Ø 15 mm		Ø 14 mm			
	electrode	Ø 2,4 mm		Ø 4,0 mm		Ø 4,8 mm			
Length		5 m	8 m	5 m	8 m	5 m	8 m		
Handle	Connector	RL	S	W000278362	W000278363	W000278364	W000278365	-	-
		RL	C5B	W000278374	W000278375	W000278376	W000278377	W000278378	W000278379
		EB	C5B	W000278402	W000278403	W000278404	W000278405	W000278406	W000278407

Modular system :

Standard delivery for EB all torches is a single button module.
Other control module formats are available to order.

Single button delivery



Other buttons

- 1** Horizontal potmeter **W000279370**
- 2** Vertical potmeter **W000279246**
- 3** Double button **W000279242**
- 4** Blade **W000279245**



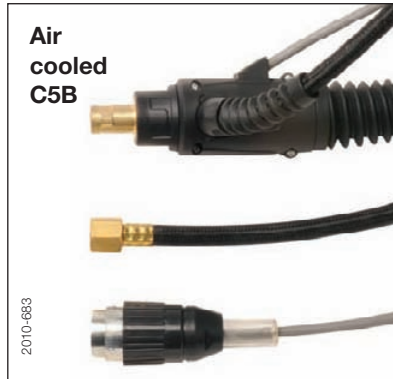
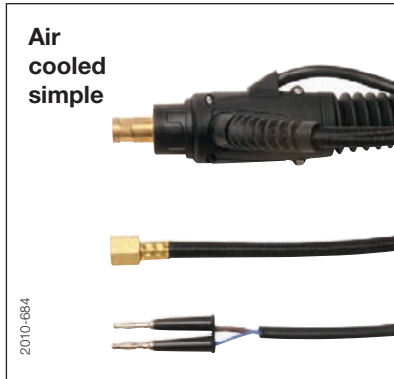
⚠ Refer to the instruction manual to see the different connections for the modules.

For potmeter adapt the wiring to the welding machine.

Connectors, adaptators, extensions and adjustable heads

Connectors

The connectors to the machine are in a new design, compact and fully protected delivering both strength and quality. All hoses are in rubber with a woven sheath for heavy duty work.

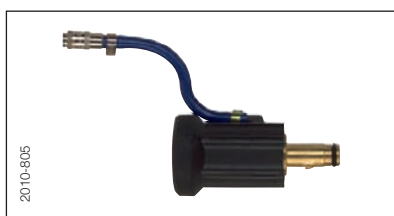


Adaptators

For old torches with central gas to be connected to power sources with separate gas, use **W000306140**



For torches with separate gas to be connected to power sources with central gas, use **W000306141**



Adjustable heads

As an option, adjustable torch bodies are available, designed to make welding in inaccessible locations easier with a choice of 2 heads, small and large which are mounted on air cooled or water cooled bodies.



Extension

The extension harnesses are 15m long and fitted with quick connectors and either S (banana) or 5 pins type trigger plugs. The connectors are protected by a leather cover with velcro fasteners.

Air cooled version **W000306135**
 Water cooled version **W000306136**



Air cooled body **W000279381**
 Water cooled body **W000279382**
 Head PROTIG NG 10 **W000279383**
 Head PROTIG NG 20-30 **W000279384**



Wear parts

Saf-Fro sets the standard for wear parts, ensuring maximum quality for both welding and gas protection

Gas lens, for welding where access is difficult

10 9 8 7

The gas lens collet body 8 is supplied with a filter 9 and a sealing ring 7.

The ring 7 or the filter 9 are supplied on their own.

PROTIG NG 40 W

6

A - insulating nut **W000306452**
 B - nozzle seals **W000167673**
 C - water distributor **W000306454**

Nozzles 6 10 : choice of diameter

Welding current (A)	70	70	120	200	350
Diameter (mm)	6	8	10	12	15

Maintenance kit

A complete kit for all applications. The kit includes electrode collets, nozzles, back caps and collet body.

- PROTIG NG 10/10W **W000306441**
- PROTIG NG 20 **W000306442**
- PROTIG NG 30 **W000306443**
- PROTIG NG 40/35W **W000306444**
- PROTIG NG 40W **W000306445**

2011-007

Tungsten electrodes

A wide choice to meet all the welding requirements

ISO 6848
EN 26848

Choice criteria

Type	Metal	Arc stability	Striking	Lasting	Thermal resistance
Pure Tungsten	Light alloys	**	*	*	*
Tungsten with Thorium	Carbon and stainless steel	*	***	**	**
Tungsten with Cerium	Carbon and stainless steel	**	*	**	**
Tungsten with Lanthanum	All	**	***	***	***
Tungsten with rare Earths	All	**	***	***	***

*** Excellent ** Good * Average

11 Tungsten Electrodes NERTAL - 150 mm long.

Very high quality Tungsten electrodes (selected raw material and high-tech manufacturing process). Perfectly adapted to the most demanding applications.

Ø mm	NERTAL Pure Tungsten	NERTAL S Tungsten with Thorium	NERTAL C Tungsten with Cerium	NERTAL L Tungsten with Lanthanum
1.0	S03710250	S03710257	S03710530	-
1.6	S03710251	S03710258	S03710531	S03710651
2.0	S03710252	S03710259	S03710533	S03710652
2.4	S03710506	S03710508	S03710534	S03710653
2.5	S03710268	S03710267	-	-
3.2	S03710507	S03710509	S03710537	S03710655
4.0	S03710254	S03710261	S03710538	S03710656
4.8	S03710510	S03710512	S03710539	-
5.0	S03710255	-	-	-
6.0	S03710256	-	-	-

11 Tungsten Electrodes WELDLINE - 150 mm long

(except WS 20 : 175 mm).

All purpose Tungsten Electrodes

Ø mm	WP Pure Tungsten	WT 20 Tungsten with Thorium 2%	WC 20 Tungsten with Cerium 2%	WL 20 Tungsten with Lanthanum 2%	WS 20 Tungsten with rare Earths 2%
1.0	W000010009	W000010002	W000010022	W000010373	W000335166
1.6	W000010010	W000010003	W000010023	W000010016	W000335167
2.0	W000010011	W000010004	W000010024	W000010017	W000335168
2.4	W000010012	W000010005	W000010025	W000010018	W000335169
2.5	W000010013	W000010006	W000010026	W000010019	W000335170
3.2	W000010014	W000335156	W000335150	W000010020	W000335171
4.0	W000010015	W000010008	W000010028	W000010021	W000335172

Wear parts are common for both RL or EB handles

		PROTIG NG 10/10 W	PROTIG NG 20	PROTIG NG 30	PROTIG NG 35 W / 40	PROTIG NG 40 W
1 - Back cap	short	W000306220	W000306223	W000306223	W000306225	W000306227
	medium	W000306221	-	-	-	-
	long	W000306222	W000306224	W000306224	W000306226	W000306228
2 - Back cap o-ring		W000306229	W000306230	W000306230	W000306231	W000306232
3 - Sealing ring		W000306210	W000306211	W000306211	W000306212	-
4 - Electrode collet	Ø 1.0	W000306236	W000306241	W000306246	W000306252	-
	Ø 1.6	W000306237	W000306242	W000306247	W000306253	-
	Ø 2.0	W000306238	W000306243	W000306248	W000306254	-
	Ø 2.4	W000306239	W000306244	W000306249	W000306255	W000306262
	Ø 2.5	W000306259	W000306260	W000306261	-	-
	Ø 3.2	W000306240	W000306245	W000306250	W000306256	W000306263
	Ø 4.0	-	-	W000306251	W000306257	W000306264
5 - Collet body all diameters		W000306205	W000306206	W000306207	W000306208	W000306200
5* - Collet body heavy duty		-	-	-	* W000306201	-
6 - Nozzle	Ø 6.4	W000306269	W000306273	W000306277	W000306277	-
	Ø 8	W000306270	W000306274	W000306278	W000306278	-
	Ø 9.6	W000306271	W000306275	W000306279	W000306279	-
	Ø 11	-	-	-	-	W000306282
	Ø 12.8	W000306272	W000306276	W000306280	W000306280	-
	Ø 14	-	-	-	-	W000306283
	Ø 15.7	-	-	W000306281	W000306281	-
6L - Long Nozzle	Ø 4.8	W000306456	-	-	-	-
	Ø 6.4	W000306457	-	W000306462	W000306462	-
	Ø 8	W000306458	-	W000306463	W000306463	-
	Ø 9.6	W000306459	-	W000306464	W000306464	-
	Ø 11.2	-	-	W000306465	W000306465	-
	Ø 12.8	-	-	-	-	-
	Ø 14	-	-	-	-	-
	Ø 15.7	-	-	-	-	-
7 - Gas lens sealing ring		W000306210	W000306216	W000306216	W000306217	-
8 - Gas lens collet body		W000306213	W000306214	W000306214	W000306215	-
9 - Gas lens filter		W000306218	W000306219	W000306219	W000306219	-
10 - Gas lens nozzle	Ø 8	W000306284	W000306287	W000306287	W000306287	-
	Ø 9.6	W000306285	W000306288	W000306288	W000306288	-
	Ø 11.2	W000306286	-	-	-	-
	Ø 12.8	-	W000306289	W000306289	W000306289	-
	Ø 15.7	-	W000306290	W000306290	W000306290	-
10L - Long gas lens nozzle	Ø 8	-	W000306467	W000306467	W000306467	-
	Ø 9.6	-	W000306468	W000306468	W000306468	-
	Ø 11.2	-	W000306469	W000306469	W000306469	-
	Ø 12.8	-	W000306470	W000306470	W000306470	-

All PROTIG NG wear parts are compatible with the previous PROTIG range.

* For the collet body « heavy duty », use the gas lens nozzles



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