

# Product Data Sheet

## PRO Fume TIG

**Implementation Date:** May 2026

The Parweld Pro-Grip TIG fume torch provides efficient extraction of harmful welding fumes at source. The fume extraction collar at the front of the torch head draws away the toxic welding fume without affecting the shielding gas coverage. Air and water cooled torches are available (PRO9, PRO17, PRO20). The design allows standard welding cups and flexible torch heads to be used. The handle vents reduce heat buildup. The torch can be connected to a high vacuum mobile extraction unit and when fitted with the correct filters will remove nickel and chromium containing fumes from the air in the working area.

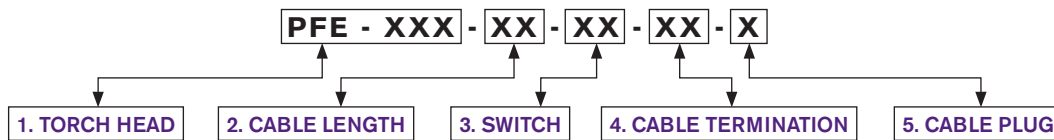
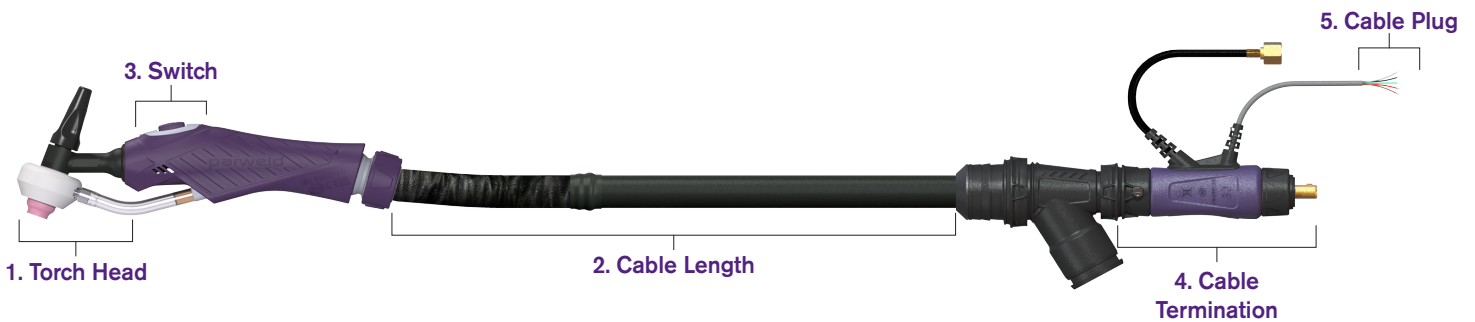


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# HOW TO CREATE YOUR TORCH

## Ordering Information

Parweld PFE fume TIG torches are manufactured with integrated machine connections and fume extraction outlet, the following information details how to configure the torch you require based on the torch model, switch configuration, cable length and welding machine model you are connecting to. The outlet for the fume hose connection is 51mm OD on all models



### 1. TORCH HEAD

CODE	DESCRIPTION
PRO9	Air Cooled 125A DC
PRO9FX	Flexible Air Cooled 125A DC
PRO17	Air Cooled 150A DC
PRO17FX	Flexible Air Cooled 150A DC
PRO20	Water Cooled 250A DC
PRO20FX	Flexible Water Cooled 250A DC

### 2. CABLE LENGTH

CODE	DESCRIPTION
12	12.5ft/4m, Leather Cover, Neoprene Sheath
25	25ft/8m, Leather Cover, Neoprene Sheath

### 3. SWITCH

CODE	DESCRIPTION
S1	Momentary Switch
S1L	Momentary Switch & Lever
S2	2 Button Momentary
S3	3 Button Momentary
S4	4 Button Rocker Momentary
S4L	4 Button Momentary Rocker Lorch*
1K	1 Button Momentary +1K Potentiometer
2K	1 Button Momentary +5K Potentiometer
3K	1 Button Momentary +10K Potentiometer
4K	1 Button Momentary +25K Potentiometer
1KL	1 Button Latching +1K Potentiometer
2KL	1 Button Latching +5K Potentiometer
3KL	1 Button Latching +10K Potentiometer
4KL	1 Button Latching +25K Potentiometer
N	Blank

### 4. CABLE TERMINATION

See more information from page 4








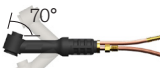
### 5. CABLE PLUG

See more information from page 7

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# TORCH COMPONENT REFERENCE GUIDE






## 1. TORCH HEADS

Air Cooled			Water Cooled		
<b>PRO9</b>	125A DC, 100A AC @ 60% Duty Cycle 0.5mm-2.4mm (.020"-3/32") Electrodes		<b>PRO20</b>	250A DC, 190A AC @ 100% Duty Cycle 0.5mm-3.2mm (.020"-1/8") Electrodes	
OPTIONS	<b>PRO 9</b>  Length: 53mm	<b>PRO 9FXL</b>  Length: 91mm	OPTIONS	<b>PRO 20</b>  Length: 56mm	<b>PRO 20FXL</b>  Length: 64mm
<b>PRO17</b>	150A DC, 115A AC @ 60% Duty Cycle 0.5mm-2.2mm (.020"-1/8") Electrodes		<b>PRO20HY</b>	300A DC, 230A AC @ 100% Duty Cycle 0.5mm-3.2mm (.020"-1/8") Electrodes	
OPTIONS	<b>PRO 17</b>  Length: 76mm	<b>PRO 17FX</b>  Length: 97mm	OPTIONS	<b>PRO 20HY</b>  Length: 56mm	<b>PRO 20HYFXL</b>  Length: 64mm

## 2. CABLE LENGTH









CODE	DESCRIPTION
12	4m (12.5ft) Cable c/w Leather Cover, Neoprene Sheath
25	8m (25ft) Cable c/w Leather Cover, Neoprene Sheath









## 3. SWITCHES

	CODE	STOCK CODE	DESCRIPTION		CODE	STOCK CODE	DESCRIPTION
	S1	PRO1MS	Momentary Switch		1K	PRO1MS-1	1 Button Momentary +1K Potentiometer
	S1L	PRO1LS	Momentary Switch & Lever		2K	PRO1MS-5	1 Button Momentary +5K Potentiometer
	S2	PRO2MS	2 Button Momentary		3K	PRO1MS-10	1 Button Momentary +10K Potentiometer
	S3	PRO3MS	3 Button Momentary		4K	PRO1MS-25	1 Button Momentary +25K Potentiometer
	S2	PRO2MS	2 Button Momentary		1KL	PRO1MS-1L	1 Button Latching +1K Potentiometer
	S3	PRO3MS	3 Button Momentary		2KL	PRO1MS-5L	1 Button Latching +5K Potentiometer
	S4	PRO4MS	4 Button Rocker Momentary		3KL	PRO1MS-10L	1 Button Latching +10K Potentiometer
	S4L	PRO4LMS	4 Button Rocker Momentary Lorch®		4KL	PRO1MS-25L	1 Button Latching +25K Potentiometer
					N	PROBK	Blank

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### 4. CABLE TERMINATIONS — AIR COOLED









TGC CODE	DESCRIPTION	
TGC-BG	Single 3/8" BSP Connection	
TGC-EG	Central Connector	
TGC-WG	Connector	
TGC-LG	Euro Connection No Gas Pin	
TGC-BD	35-50 Twist Lock on Power 3/8" BSP on Gas	
TGC-BDS	Small Twist Lock on Power 3/8" BSP on Gas	
TGC-BDM10	Large Twist Lock on Power M10 on Gas	
TGC-BDM12	Large Twist Lock on Power M12 on Gas	

TGC CODE	DESCRIPTION	
TGC-MG	50mm Twist Lock Gas + bladed QF	
TGC-LNG	Large Twist Lock Connections + Small QF	
TGC-LNGS	Small Twist Lock Connections + Small QF	
TGC-EMG	Large Twist Lock Connections 1/4" BSP	
TGC-E2G	Small Twist Lock Connections 1/4" BSP	
TGC-KG	Connection 1/4" BSP	
TGC-TG	Twist Lock through Gas Connector 35-50mm	
TGC-SG	SAF® through Gas Connector 35-50mm	

SAF® trademark is the property of the respective owner, and usage is to confirm compatibility only. These products are not endorsed by the original manufacturer.

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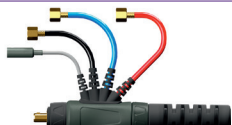
### 4. CABLE TERMINATIONS — AIR COOLED






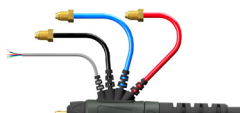




TGC CODE	DESCRIPTION	
TGC-FRG	Connections 3/8" BSP	
TGC-ESG	Large Twist Lock 1/8" BSP	
TGC-EXG	Small Twist Lock 1/8" BSP	
TGC-MPG	Multiprocess Euro Connector	
TGC-LRG	Large Twist Lock Connections + Small QF	
TGC-DQF	Large Twist Lock on Power 9mm QF on Gas	
TGC-UN	5/8" UNF RH Gas/Power	
TGC-UD	Large Twist Lock on Power, 5/8" UNF RH Male on Gas	



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### 4. CABLE TERMINATIONS — WATER COOLED

TGC CODE	DESCRIPTION
TGC-BW	3/8" BSP On Water, Gas, Power 
TGC-EW	Central Connector 
TGC-DQ	Large Twist Lock on Power QF on Water In/Out, 3/8" BSP on Gas 
TGC-DQM12	Large Twist Lock on Power QF on Water In/Out, M12 on Gas 
TGC-WW	WTW Connector 
TGC-LW	Euro Connector no Gas Pin 
TGC-MW	Large Twist Lock Small QF Connections 9mm QF on water 
TGC-LNW	Large Twist Lock Small QF on Gas 9mm QF on Water 
TGC-EMW	Large Twist Lock Connections 9mm QF Water In/Out 1/4" BSP Gas 
TGC-EBW	Large Twist Lock 1/4" Gas, 3/8" on Water In/Out 

TGC CODE	DESCRIPTION
TGC-TW	Twist Lock through Gas Connector, QF on Water In/Out 
TGC-ESW	Large Twist Lock Connections 9mm QF 1/8" BSP 
TGC-LRW	Large Twist Lock Connections 9mm QF Water In/Out Small QF Gas 
TGC-KW	1/4" BSP Power/Gas Connection 9mm QF Water In/Out 
TGC-DQQ	Large Twist Lock on Power 9mm QF on Water In/Out QF on Gas 
TGC-UE	Large Twist Lock on Power, 5/8" UNF LH on Water In/Out, 5/8" UNF RH Male on Gas 
TGC-UW	7/8" UNF LH Male on Power, 5/8" UNF RH Male on Gas, 5/8" UNF LH Male on Water 
TGC-UNW	5/8" UNF RH Gas/power, QF Water In/Out 
TGC-UDW	Large Twist Lock on power, 5/8" UNF RH Gas, QF Water In/Out 
TGC-KOW	3/8" Power and Water, 1/4" BSP on Gas 

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### 5. CABLE PLUGS

	CODE	STOCK CODE	TGC STOCK CODE	PLUG DESCRIPTION
	0	ERCP0	TSW-0	2 Pin Amphenol
	1	ERCP1	TSW-1	4 Pin Amphenol
	2	ERCP2	TSW-2	5 Pin Amphenol
	3	ERCP3	TSW-3	6 Pin Amphenol
	4	ERCP4	TSW-4	14 Pin Amphenol
	5	ERCP5	TSW-5	6 Pin Harting®
	6	ERCP6	TSW-6	8 Pin
	7	ERCP7	TSW-7	3 Pin Tuchel
	8	ERCP8	TSW-8	9 Pin Tuchel
	9	ERCP9	TSW-9	5 Pin Tuchel
	10	ERCP10	TSW-10	12 Pin
	11	ERCP11	TSW-11	7 Pin
	12	ERCP12	TSW-12	2 Pin
	13	ERCP13	TSW-13	2 Pin
	14	ERCP14	TSW-14	5 Pin
	15	ERCP15	TSW-15	5 Pin - ELEK

	CODE	STOCK CODE	TGC STOCK CODE	PLUG DESCRIPTION
	16	ERCP16	TSW-16	5 Pin Amphenol
	17	ERCP17	TSW-17	7 Pin Tuchel
	18	ERCP18	TSW-18	14 Pin
	19	ERCP19	TSW-19	5 Pin
	20	ERCP20	TSW-20	3 Pin
	21	ERCP21	TSW-21	2 Pin Push In
	22	ERCP22	TSW-22	5 Pin
	23	ERCP23	TSW-23	3 Pin
	24	ERCP24	TSW-24	5 Pin Remote Control
	25	ERCP25	TSW-25	7 Pin
	26	ERCP26	TSW-26	14 Pin
	27	ERCP27	TSW-27	6 Pin
	28	ERCP28	TSW-28	7 Pin
	29	ERCP29	TSW-29	7 Pin
	30	ERCP30	TSW-30	10 Pin
	31	ERCP31	TSW-31	3 Pin
	32	ERCP32	TSW-32	7 Pin

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### 5. CABLE PLUGS

	CODE	STOCK CODE	TGC STOCK CODE	PLUG DESCRIPTION
	33	ERCP33	TSW-33	4mm Pin
	34	ERCP34	TSW-34	7 Pin
	35	ERCP35	TSW-35	2 Pin Cable Mounted Socket
	36	ERCP36	TSW-36	3 Pin
	37	ERCP37	TSW-37	12 Pin
	38	ERCP38	TSW-38	9 Pin
	39	ERCP39	TSW-39	9 Pin
	40	ERCP40	TSW-40	6 Pin Amphenol
	41	ERCP41	TSW-41	7 Pin Amphenol
	42	ERCP42	TSW-42	Phone Audio Jack 3.5mm 3 Contact
	43	ERCP43	TSW-43	4 Pin C16
	47	ERCP47	TSW-47	7 Pin Remote
	48	ERCP48	TSW-48	5 Pin
	49	ERCP49	TSW-49	14 Pin
	50	ERCP50	TSW-50	8 Pin Cable RJ45
	51	ERCP51	TSW-51	12 Pin
	52	ERCP52	TSW-52	4 Pin Plug

	CODE	STOCK CODE	TGC STOCK CODE	PLUG DESCRIPTION
	55	ERCP55	TSW-55	12 Pin Plug
	56	ERCP56	TSW-56	7 Pin Plug
NOT ILLUSTRATED	57	ERCP57	TSW-57	10 Pin Plug
	58	ERCP58	TSW-58	8 Pin Plug
	59	ERCP59	TSW-59	5 Pin Plug
	60	ERCP60	TSW-60	5 Pin Plug
	61	ERCP61	TSW-61	5 Pin Plug
	62	ERCP62	TSW-62	5 Pin Plug
	63	ERCP63	TSW-63	7 Pin Plug
	65	ERCP65	TSW-65	2 Pin Socket 15.5mm
	66	ERCP66	TSW-66	5 Pin Plug
	68	ERCP68	TSW-68	3 Pin Plug
NOT ILLUSTRATED	69	ERCP69	TSW-69	9 Pin Plug
NOT ILLUSTRATED	72	ERCP72	TSW-72	10 Pin Plug
	73	ERCP73	TSW-73	8 Pin
	75	ERCP75	TSW-75	12 Pin
	76	ERCP76	TSW-76	7 Pin
	78	ERCP78	TSW-78	2 Pin
	79	ERCP79	TSW-79	2 Pin

\*NI-NOT ILLUSTRATED

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## TECHNICAL DATA

### Torch Operating Data (EN 60974-7)

Model	Cooling	Load Type		Duty Cycle	Electrode size mm	Gas Flow l/min
		DC	AC			
PFE9	Air	125A	88A	60%	0.5-2.4	5-12
PFE17	Air	150A	105A	60%	0.5-3.2	5-12
PFE20	Liquid	250A	175A	100%	0.5-3.2	7-18
PFE20HY	Liquid	300A	210A	100%	0.5-4.0	7-18

### Usage Requirements

Storage and Transportation -20 to +55°C

Operating Temperature Temp 0 to +40°C

Voltage Rating 113V Peak

Arc Ignition and Stabilisation Voltage  
10Kv, 50Hz Max

Voltage of Control Circuit 1-42V AC/DC

Control Circuit Current 1A Maximum

### Cooling (Liquid)

Flow Rate Minimum 0.7 lpm

Pressure 2.5 Bar Nominal  
(3.5 Bar Maximum)

Max Liquid Temperature 50°C

Cooling Capacity 800W Minimum

### Extraction Requirements (EN ISO 21904-1)

Based on induced velocity of 0.35 m/s

Model	Length	Volume flow m <sup>3</sup> /hr		Negative pressure at connector
		Suction Nozzle	Rear Connector	
PFE9, 20, 20HY, 17 (53N series Consumables)	4m	1.8	3.7	1.0 Kpa
	8m	2.1	4.5	4.3 Kpa
PFE17 (10N series Consumables)	4m	7	9.5	13.3 Kpa
	8m	8.1	13.2	21.1 Kpa



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