

# Hypertherm®

## 2011 Torch and Consumables Catalog

FOR POWERMAX® AND MAX® PLASMA SYSTEMS



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Torch and consumable brochures by system

# Hypertherm handheld systems reference list



Current products		Original torch assembly		Replacement torch assembly		Page
System	Amperage	Hand	Machine	Hand	Machine	
Powermax30	30 A	T30v	N/A	T30v	N/A	1
Powermax45	45 A	T45v	T45m	T45v	T45m	3
Powermax65	65 A	H65, H65s	M65, M65m	H65, H65s	M65, M65m	7
Powermax85	85 A	H85, H85s	M85, M85m	H85, H85s	M85, M85m	11
Powermax1650	100 A	T100	T100M	HRT, HRTs, T100	MRT, T100M-2	15
MAX200	200 A	PAC200T/E	MAX200	PAC200T/E	MAX200	69

## Hypertherm handheld systems retrofit torches reference list



Current products		Original torch assembly		Replacement torch assembly		Page
System	Amperage	Hand	Machine	Hand	Machine	
RT60 Retrofit for Powermax600 Powermax800 Powermax900 MAX42/43	40 – 55 A	PAC120 PAC121 PAC123 PAC125 T series	PAC120 PAC121 PAC123 PAC125 M series	RT60	RT60M	75
RT80 Retrofit for Powermax1100	80 A	PAC135T	PAC135M	RT80	RT80M	79
Duramax retrofit torches for Powermax1000 Powermax1250 Powermax1650	40 – 100 A	T60 T80 T100	T60M T80M T100M T100M-2	HRT HRTs	MRT	83, 85

## Kits reference list

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Powermax consumable kits	87, 88
Powermax bulk pack consumables	87

# Hypertherm handheld systems reference list – discontinued



Discontinued products		Original torch assembly		Replacement torch assembly		Page
System	Amperage	Hand	Machine	Hand	Machine	
Powermax190c	12 A	PAC105T	N/A	PAC105T	N/A	21
MAX20	20 A	PAC110	N/A	PAC110	N/A	51
Powermax350	25 A	PAC110T	N/A	PAC110T	N/A	23
Powermax380	25 A	PAC110T	N/A	PAC110T	N/A	25
MAX40	40 A	PAC140	HT40	PAC140	HT40	53
MAX40cs	40 A	PAC120P/T	PAC120M	PAC121P/T	PAC121M	57
HT40/HT40C	40 A	HT40	N/A	HT40	N/A	53, 73
MAX42	40 A	PAC120P/T	PAC120M	PAC125T RT60	PAC125M RT60M	57
MAX43	40 A	PAC121P/T	PAC121M	PAC125T RT60	PAC125M RT60M	57
Powermax600	40 A	PAC123T	PAC123M	PAC123T RT60	PAC123M RT60M	27
Powermax800	50 A	PAC121TS	PAC121M	PAC125T RT60	PAC125M RT60M	31

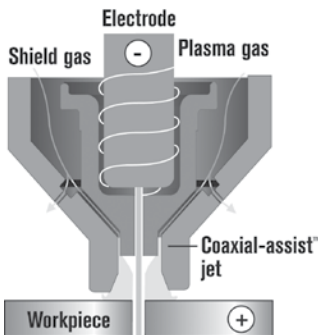


Discontinued products		Original torch assembly		Replacement torch assembly		Page
System	Amperage	Hand	Machine	Hand	Machine	
Powermax900	55 A	PAC125T	PAC125M	PAC125T RT60	PAC125M RT60M	35
Powermax1000	60 A	T60	T60M	T60 HRT HRTs	T60M MRT	39
Powermax1250	80 A	T80	T80M	T80 HRT HRTs	T80M MRT	43
MAX70	70 A	PAC130	MAX100	PAC130	MAX100	61
Powermax1100	80 A	PAC135T	PAC135M	PAC135T RT80	PAC135M RT80M	47
MAX100	100 A	PAC130	MAX100D	PAC130	MAX100D	61
MAX100D	100 A	PAC160/E	MAX100D	PAC160/E	MAX100D	65

# Hypertherm technology benefits

Hypertherm designs consumables for fast cutting speeds, long life, and superior cut quality for high productivity and low operating costs.

## Coaxial-assist jet



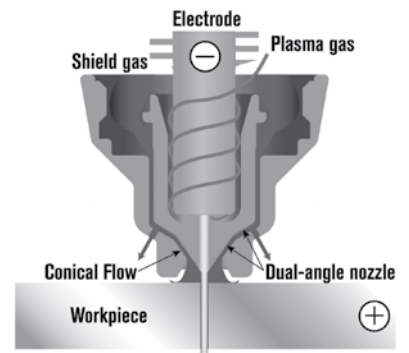
**Coaxial-assist™ jet** boosts cutting speeds as much as 20% over conventional consumables designs.

**Vented shield** is designed so the shield is electrically isolated from the nozzle to prevent arcing through the shield, enabling drag-cutting up to 100 amps for easy cutting.

**Conical Flow™** nozzle technology increases arc energy density for superior cut quality with little dross.

**Spiral groove electrodes** provide optimal cooling, drawing the 3000° F heat away from the tip of the electrode. This slows electrode wear for longer electrode life.

## Conical Flow




**Contact-start** technology eliminates high-frequency interference that can damage nearby electronic equipment.

**SilverPlus®** is a proven technology that dramatically extends electrode life, significantly reducing operating cost.

**HyLife®** electrode extends consumable life and lowers operating cost.

**Note:** Technologies vary by product. Refer to product pages.





**Dielectric shield** protects the nozzle from slag and double-arcing for improved nozzle life. The thin wall of the shield improves operator visibility for more precise cutting.

**FineCut®** consumables are optimized for high-quality cuts on thin metal – for a clean edge and narrow kerf.

**Chambered swirl ring** gradually reduces gas pressure at the end of the cut to stabilize the hafnium insert prior to arc termination; this extends nozzle and electrode life.



Powermax systems feature a **FastConnect** torch for easily switching between handheld and mechanized cutting.

**Smart Sense™** technology automatically adjusts gas pressure according to cutting mode and torch lead length for optimum cutting.

**Spring Start™** electrode technology increases torch reliability by eliminating moving parts in the torch.

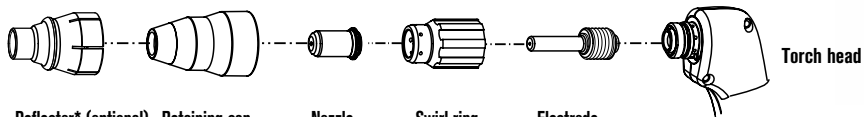


# Hypertherm® powermax30®

## T30v hand torch consumables



### Standard consumables



Deflector* (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
220569	220483	220480	220479	220478

Torch head



### TECHNOLOGIES

#### Dielectric shield

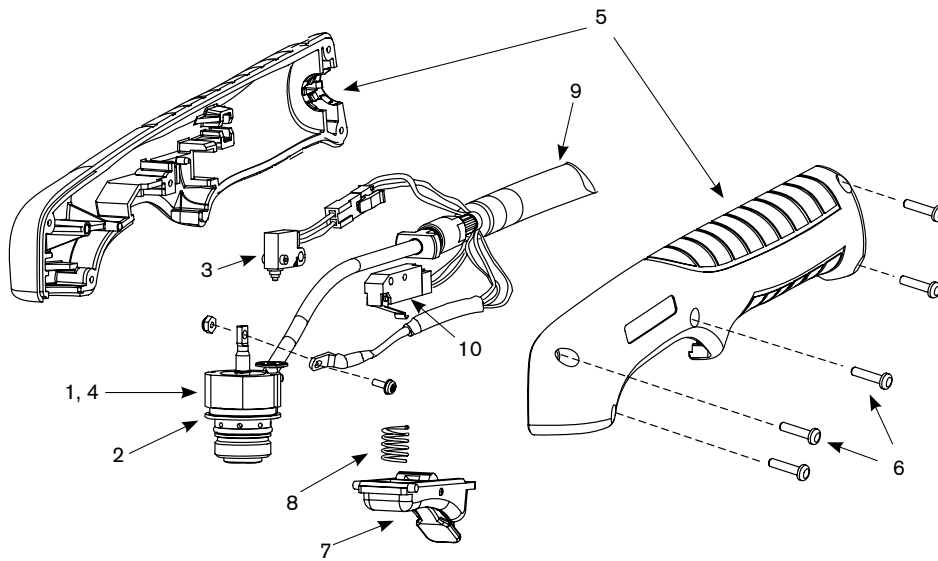
All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Optional deflector may be used to help maintain torch-to-work distance or may be used as a guide when cutting with templates.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## T30v hand torch assembly



### Assembly

Part number	Description
088001*	T30v hand torch assembly with 15' (4.6 m) leads
1. 228112	Kit: T30v main body replacement
2. 058503	O-ring: Viton .626 x .070
3. 228109	Kit: Cap-off sensor replacement
4. 228110	Kit: T30v torch head repair
5. 228111	Kit: T30v torch handle replacement
6. 075339	Handle screws
7. 002244	Safety trigger
8. 027254	Spring
9. 228113	Kit: T30v 15' (4.6 m) torch lead replacement
10. 128642	Kit: T30v start switch replacement
123868	Work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables

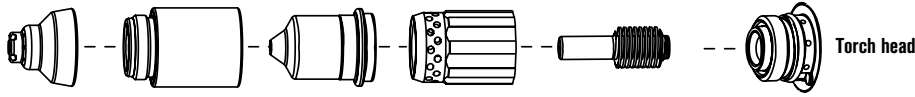


# Hypertherm® powermax45®

## T45v hand torch consumables

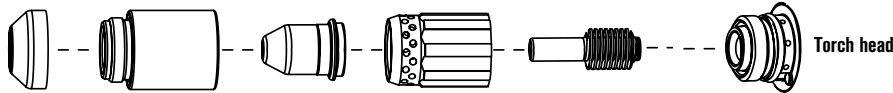


### Shielded consumables



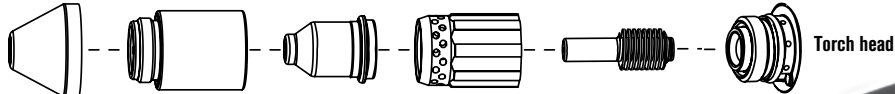
Shield	Retaining cap	Nozzle	Swirl ring	Electrode
220674	220713	220671	220670	220669

### Unshielded\* consumables



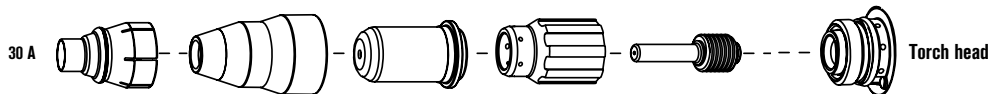
Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
220717	220713	220718	220670	220669

### Gouging consumables



Shield	Retaining cap	Nozzle	Swirl ring	Electrode
220675	220713	220672	220670	220669

### T30v consumables\*\*



30 A Deflector (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
30 A 220569	220483	220480	220479	220478



All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* Use T30v 30 A consumables for 30 A fine-feature cutting on thin metals.

### TECHNOLOGIES

**Dielectric shield**

**FastConnect™**

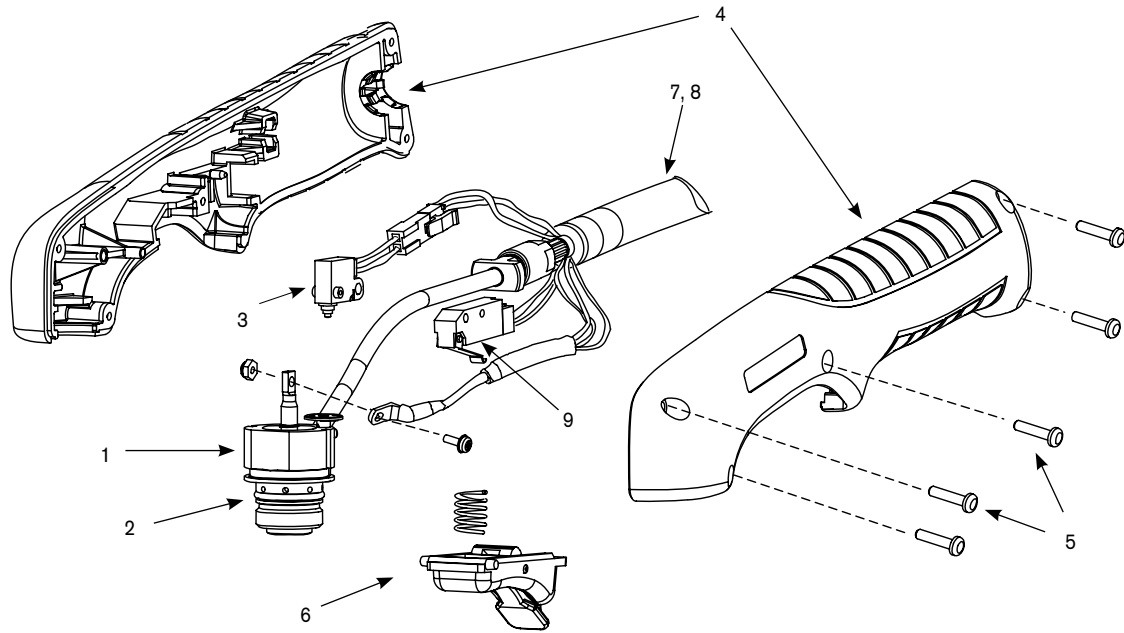
**Vented shield**

**Conical Flow™**

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## T45v hand torch assembly



### Assembly

Part number	Description
088008*	T45v hand torch assembly with 20' (6.1 m) leads
088009*	T45v hand torch assembly with 50' (15.2 m) leads
1. 228346	Kit: Torch body replacement
2. 058503	O-ring: torch body
3. 228109	Kit: Cap-sensor switch replacement
4. 228313	Kit: Handle
5. 075714	Handle screws
6. 002294	Safety trigger and spring replacement
7. 228315	Kit: Torch lead replacement, 20' (6.1 m)
8. 228316	Kit: Torch lead replacement, 50' (15.2 m)
228300	Work lead with clamp, 20' (6.1 m)
228307	Work lead with clamp, 50' (15.2 m)
9. 128642	Kit: T30v start switch replacement

\*Assembly includes consumables

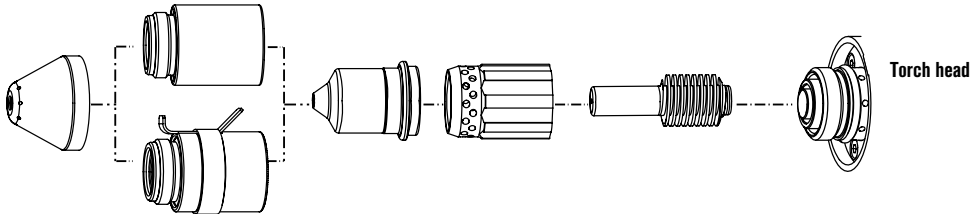


# Hypertherm® powermax45®

## T45m machine torch consumables

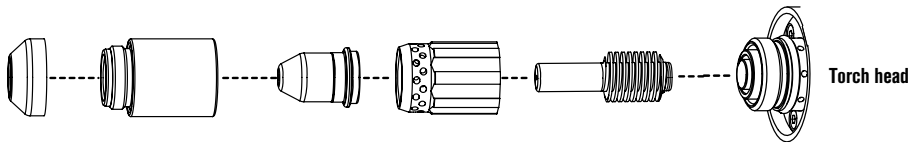


### Shielded consumables



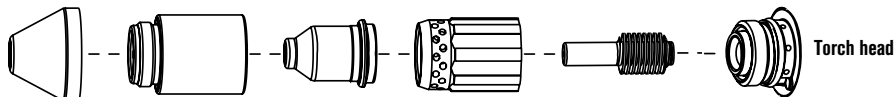
	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
	220673	220713	220671	220670	220669
<b>Ohmic</b>		220719			

### Unshielded consumables



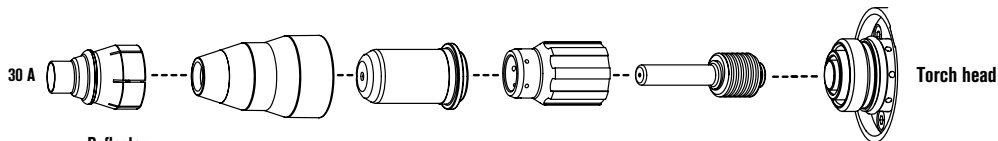
	Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
	220717	220713	220718	220670	220669

### Gouging consumables



	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
	220675	220713	220672	220670	220669

### T30v consumables\*



	Deflector (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
30 A	220569	220483	220480	220479	220478



### TECHNOLOGIES

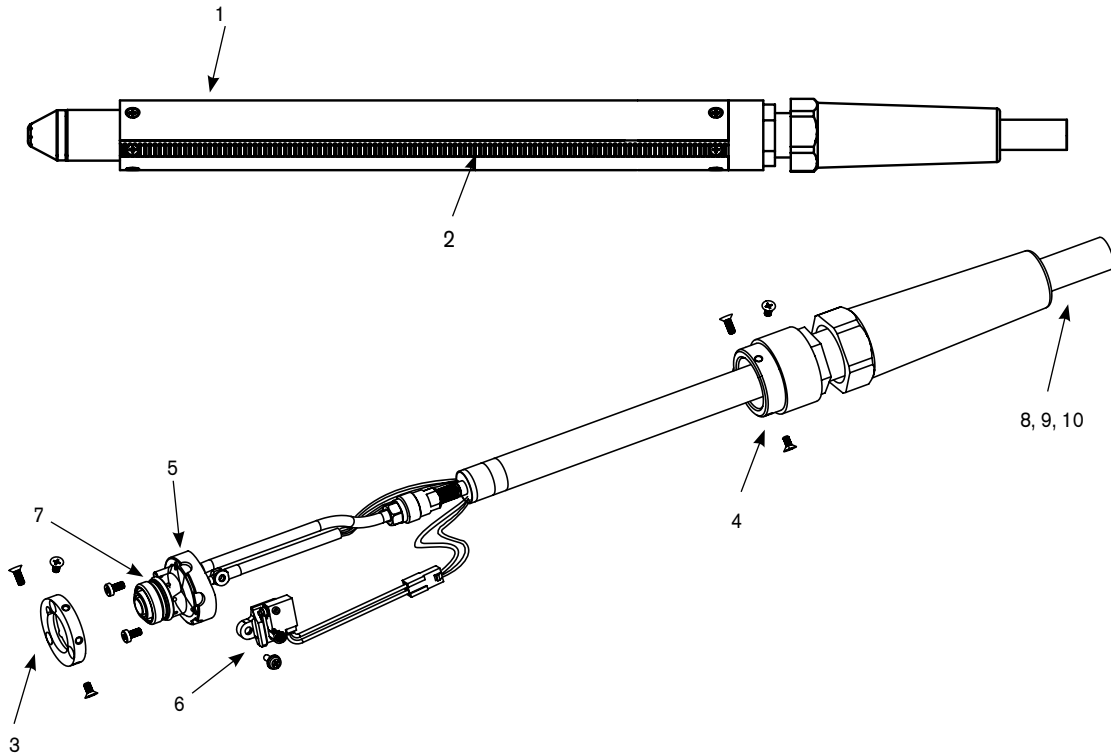
**Dielectric shield**  
**FastConnect™**  
**Vented shield**  
**Conical Flow™**

\* Use T30v 30 A consumables for 30 A fine-feature cutting on thin metals.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

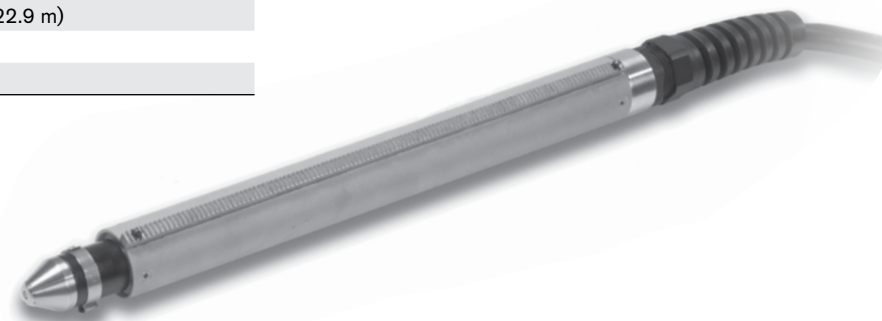
## T45m machine torch assembly



### Assembly

Part number	Description
088010*	T45m machine torch assembly with 25' (7.6 m) leads
088011*	T45m machine torch assembly with 35' (10.7 m) leads
088012*	T45m machine torch assembly with 50' (15.2 m) leads
1. 228228	Kit: T45m positioning sleeve
2. 228229	Kit: T45m removable gear rack
3. 228322	Kit: Front mounting ring
4. 228323	Kit: Rear mounting ring
5. 228320	Kit: T45m torch body replacement
6. 228321	Kit: T45m cap-sensor switch replacement
7. 058503	O-ring: torch body
8. 228317	T45m torch lead replacement, 25' (7.6 m)
9. 228318	T45m torch lead replacement, 35' (10.7 m)
10. 228319	T45m torch lead replacement, 50' (15.2 m)
128650	On/Off pendant for machine torch, 25' (7.6 m)
128651	On/Off pendant for machine torch, 50' (15.2 m)
128652	On/Off pendant for machine torch, 75' (22.9 m)
228300	Work lead with clamp, 20' (6.1 m)
228307	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



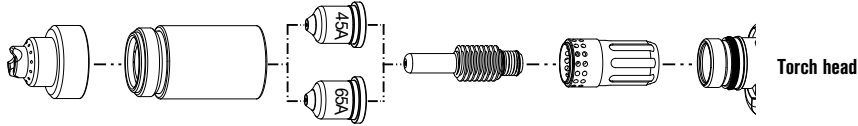


# Hypertherm® powermax65®

## H65 and H65s hand torch consumables

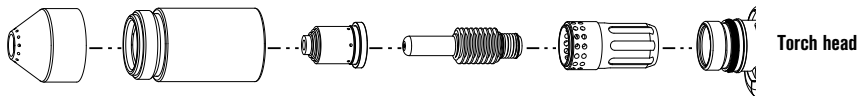


### Drag-cutting consumables



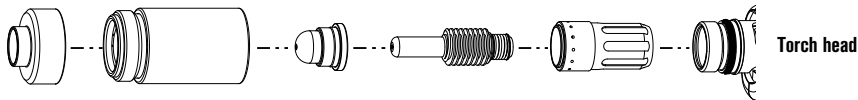
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857

### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A	220798	220854	220797*	220842*	220857

### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220931	220854	220930*	220842*	220947



**Duramax™ series**

#### TECHNOLOGIES

**FineCut®**  
**Dielectric shield**  
**FastConnect™**  
**Vented shield**  
**Conical Flow**  
**Spring Start™**  
**Smart Sense™**

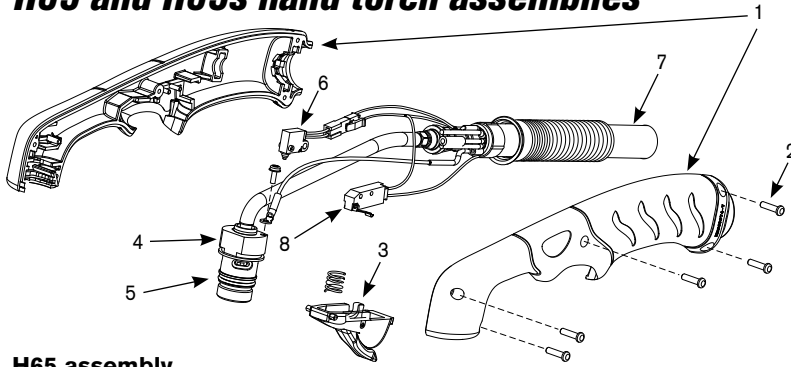
All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

Hypertherm, Powermax, FineCut, FastConnect, Spring Start and Smart Sense are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## H65 and H65s hand torch assemblies

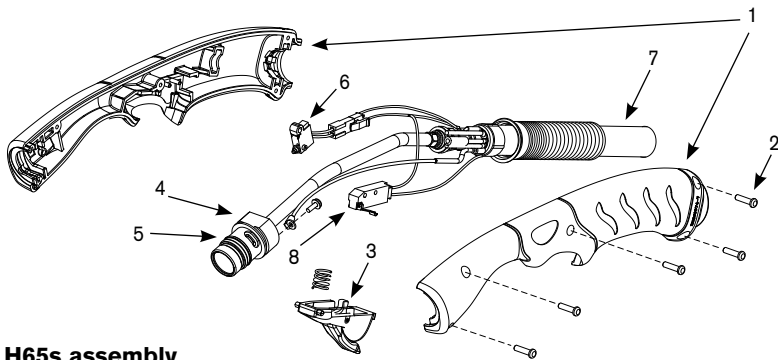


### H65 assembly

Part number	Description
083247*	H65 Hand torch assembly with 25' (7.6 m) lead
083248*	H65 Hand torch assembly with 50' (15.2 m) lead
083249*	H65 Hand torch assembly with 75' (22.9 m) lead
1. 228717	Kit: H65/H85 Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s (spring and trigger assembly)
4. 228714	Kit: H65/H85 Torch main body replacement
5. 058519	O-ring
6. 228719	Kit: H65/H85 Cap-sensor switch replacement
7. 228723	Kit: H65/H85 Torch lead replacement, 25' (7.6 m)
7. 228724	Kit: H65/H85 Torch lead replacement, 50' (15.2 m)
7. 228725	Kit: H65/H85 Torch lead replacement, 75' (22.9 m)
8. 005252	Trigger start switch
223125†	Kit: 65 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of consumables

†Other work lead options available



### H65s assembly

Part number	Description
083251*	H65s Hand torch assembly with 25' (7.6 m) lead
083252*	H65s Hand torch assembly with 50' (15.2 m) lead
083253*	H65s Hand torch assembly with 75' (22.9 m) lead
1. 228718	Kit: H65s/H85s Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s (spring and trigger assembly)
4. 228715	Kit: H65s/H85s Torch main body replacement
5. 058519	O-ring
6. 228109	Kit: H65s/H85s Cap-sensor switch replacement
7. 228727	Kit: H65s/H85s Torch lead replacement, 25' (7.6 m)
7. 228728	Kit: H65s/H85s Torch lead replacement, 50' (15.2 m)
7. 228729	Kit: H65s/H85s Torch lead replacement, 75' (22.9 m)
8. 005252	Trigger start switch
223125†	Kit: 65 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of consumables

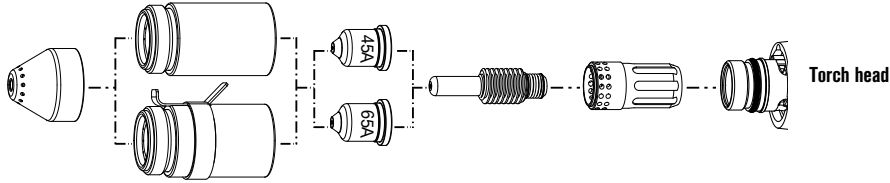
†Other work lead options available

# Hypertherm® powermax65®

## M65 and M65m machine torch consumables

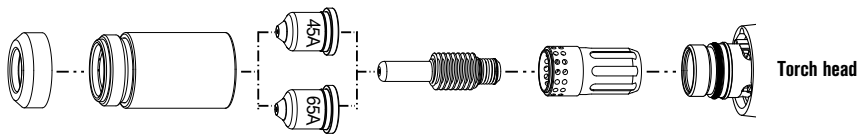


### Mechanized consumables



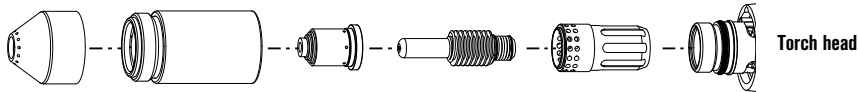
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
Ohmic		220953			

### Unshielded consumables



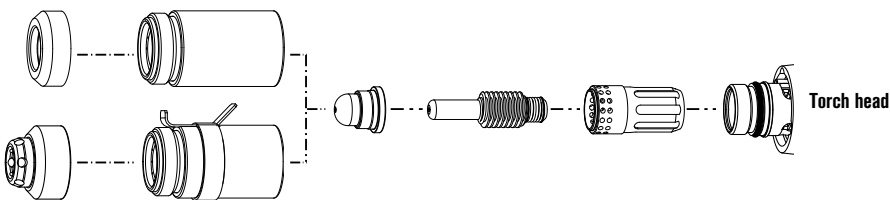
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857

### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A	220798	220854	220797*	220842*	220857

### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220930*	220842*	220857
Ohmic	220948	220953			

All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.



### Duramax™ series

#### TECHNOLOGIES

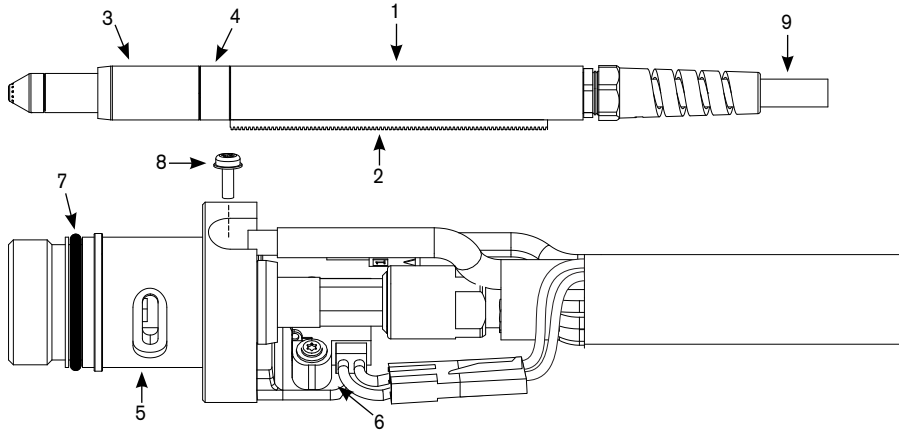
- FineCut®**
- Dielectric shield**
- FastConnect™**
- Vented shield**
- Conical Flow™**
- Spring Start™**
- Smart Sense™**

Hypertherm, Powermax, FineCut, FastConnect, Conical Flow, Spring Start and Smart Sense are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax65<sup>®</sup>

## M65 and M65m machine torch assemblies



### M65 assembly

Part number	Description
083254*	M65 Machine torch assembly with 15' (4.6 m) lead
083255*	M65 Machine torch assembly with 25' (7.6 m) lead
083256*	M65 Machine torch assembly with 35' (10.7 m) lead
083257*	M65 Machine torch assembly with 50' (15.2 m) lead
083258*	M65 Machine torch assembly with 75' (22.9 m) lead
1. 228737	Kit: M65/M85 positioning sleeve
2. 228738	Kit: M65/M85 removable gear rack
3. 228735	Kit: M65/M65m/M85/M85m front mounting sleeve
4. 228736	Kit: M65/M65m/M85/M85m adapter ring (coupler)
5. 228716	Kit: M65/M65m/M85/M85m torch main body replacement
6. 228720	Kit: Cap-sensor switch replacement
7. 058519	O-ring
8. 075504	Pilot terminal screw
9. 228730	Kit: M65/M65m/M85/M85m torch lead replacement, 15' (4.6 m)
9. 228731	Kit: M65/M65m/M85/M85m torch lead replacement, 25' (7.6 m)
9. 228732	Kit: M65/M65m/M85/M85m torch lead replacement, 35' (10. m)
9. 228733	Kit: M65/M65m/M85/M85m torch lead replacement, 50' (15.2 m)
9. 228734	Kit: M65/M65m/M85/M85m torch lead replacement, 75' (22.9 m)
128650	Remote start pendant for machine torch, 25' (7.6 m)
128651	Remote start pendant for machine torch, 50' (15.2 m)
128652	Remote start pendant for machine torch, 75' (22.9 m)
223125†	Kit: 65 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of mechanized consumables

†Other work lead options available

### M65m assembly

Part number	Description
083259*	M65m Mini-machine torch assembly with 15' (4.6 m) lead
083260*	M65m Mini-machine torch assembly with 25' (7.6 m) lead
083261*	M65m Mini-machine torch assembly with 35' (10.7 m) lead
083262*	M65m Mini-machine torch assembly with 50' (15.2 m) lead
083263*	M65m Mini-machine torch assembly with 75' (22.9 m) lead
3. 228735	Kit: M65/M65m/M85/M85m front mounting sleeve
4. 228736	Kit: M65/M65m/M85/M85m adapter ring (coupler)
5. 228716	Kit: M65/M65m/M85/M85m torch main body replacement
6. 228720	Kit: Cap-sensor switch replacement
7. 058519	O-ring
8. 075504	Pilot terminal screw
9. 228730	Kit: M65/M65m/M85/M85m torch lead replacement, 15' (4.6 m)
9. 228731	Kit: M65/M65m/M85/M85m torch lead replacement, 25' (7.6 m)
9. 228732	Kit: M65/M65m/M85/M85m torch lead replacement, 35' (10.7 m)
9. 228733	Kit: M65/M65m/M85/M85m torch lead replacement, 50' (15.2 m)
9. 228734	Kit: M65/M65m/M85/M85m torch lead replacement, 75' (22.9 m)
128650	Remote start pendant for machine torch, 25' (7.6 m)
128651	Remote start pendant for machine torch, 50' (15.2 m)
128652	Remote start pendant for machine torch, 75' (22.9 m)
223125†	Kit: 65 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of mechanized consumables

†Other work lead options available

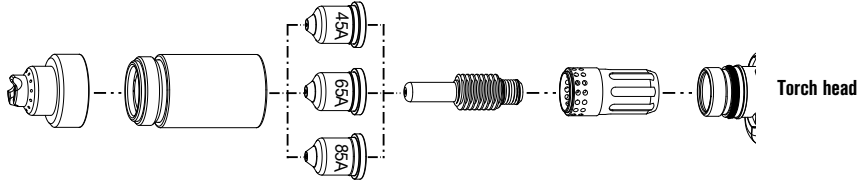


# Hypertherm® powermax85®

## H85 and H85s hand torch consumables

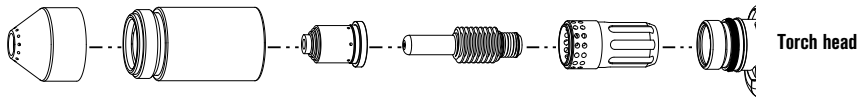


### Drag-cutting consumables



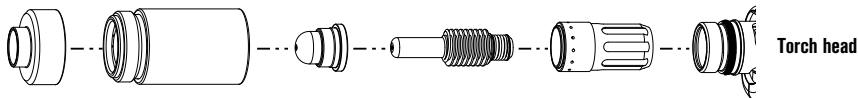
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857
85 A	220818*	220854	220816*	220842*	220857

### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A/85 A	220798	220854	220797*	220842*	220857

### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220931	220854	220930*	220842*	220947



**Duramax™ series**

#### TECHNOLOGIES

- FineCut®**
- Dielectric shield**
- FastConnect™**
- Vented shield**
- Conical Flow™**
- Spring Start™**
- Smart Sense™**

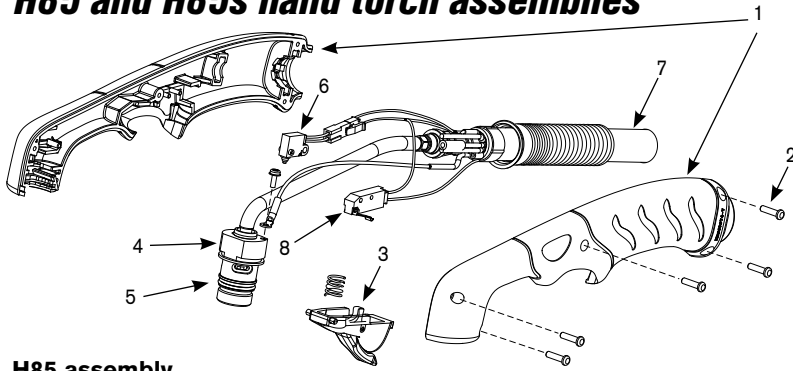
All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## H85 and H85s hand torch assemblies

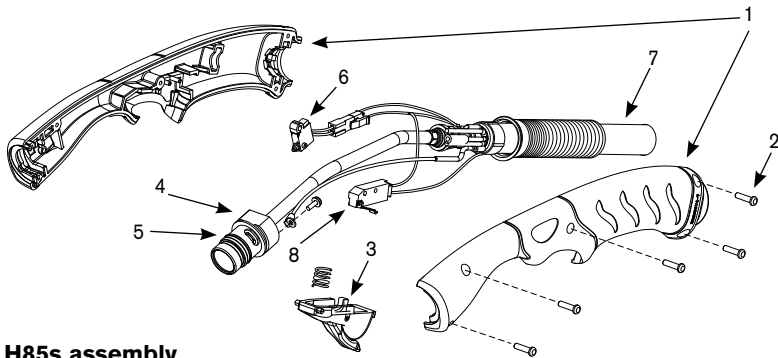


### H85 assembly

Part number	Description
087085*	H85 Hand torch assembly with 25' (7.6 m) lead
087086*	H85 Hand torch assembly with 50' (15.2 m) lead
087087*	H85 Hand torch assembly with 75' (22.9 m) lead
1. 228717	Kit: H65/H85 Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s (spring and trigger assembly)
4. 228714	Kit: H65/H85 Torch main body replacement
5. 058519	O-ring
6. 228719	Kit: H65/H85 Cap-sensor switch replacement
7. 228723	Kit: H65/H85 Torch lead replacement, 25' (7.6 m)
7. 228724	Kit: H65/H85 Torch lead replacement, 50' (15.2 m)
7. 228725	Kit: H65/H85 Torch lead replacement, 75' (22.9 m)
8. 005252	Trigger start switch
223035†	Kit: 85 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of consumables

†Other work lead options available



### H85s assembly

Part number	Description
087089*	H85s Hand torch assembly with 25' (7.6 m) lead
087090*	H85s Hand torch assembly with 50' (15.2 m) lead
087091*	H85s Hand torch assembly with 75' (22.9 m) lead
1. 228718	Kit: H65s/H85s Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s (spring and trigger assembly)
4. 228715	Kit: H65s/H85s Torch main body replacement
5. 058519	O-ring
6. 228109	Kit: H65s/H85s Cap-sensor switch replacement
7. 228727	Kit: H65s/H85s Torch lead replacement, 25' (7.6 m)
7. 228728	Kit: H65s/H85s Torch lead replacement, 50' (15.2 m)
7. 228729	Kit: H65s/H85s Torch lead replacement, 75' (22.9 m)
8. 005252	Trigger start switch
223035†	Kit: 85 A Work lead with hand clamp, 25' (7.6 m)

\*Assembly includes one set of consumables

†Other work lead options available

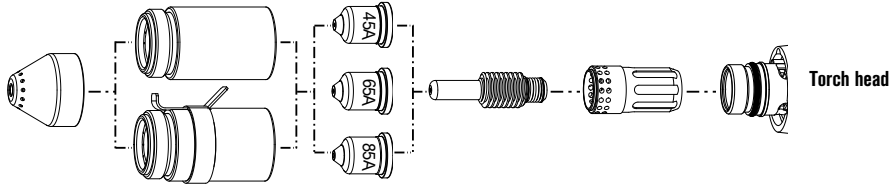
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# Hypertherm® powermax85®

## M85 and M85m machine torch consumables

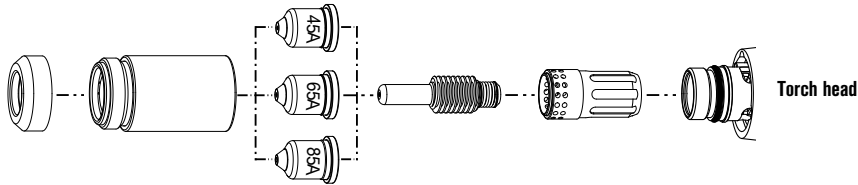


### Mechanized consumables



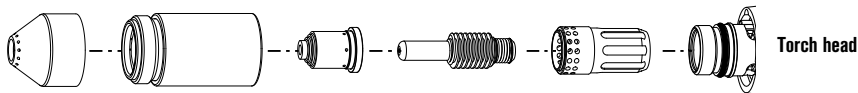
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
85 A	220817*	220854	220816*	220842*	220857
Ohmic		220953			

### Unshielded consumables



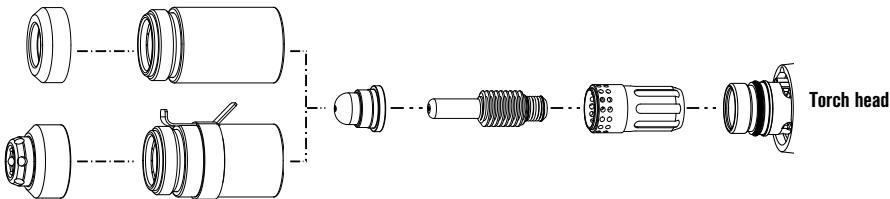
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857
85 A	220955	220854	220816*	220842*	220857

### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A/85 A	220798	220854	220797*	220842*	220857

### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220930*	220842*	220857
Ohmic	220948	220953			

All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

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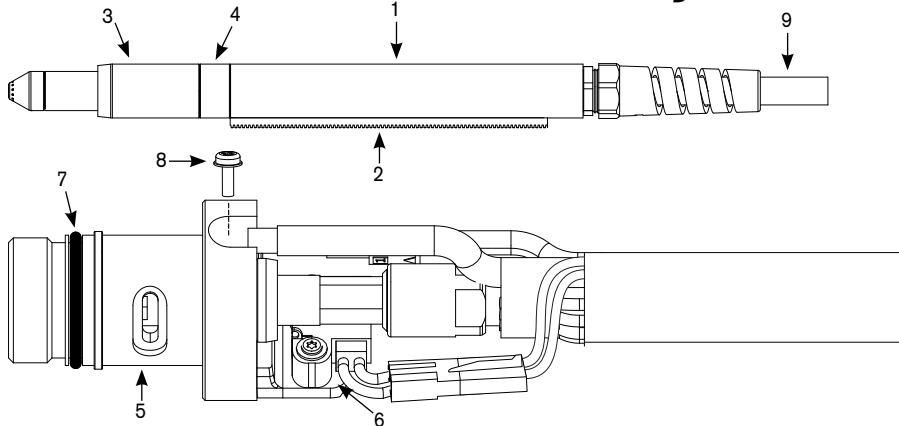
#### TECHNOLOGIES

**FineCut®**  
**Dielectric shield**  
**FastConnect™**  
**Vented shield**  
**Conical Flow™**  
**Spring Start™**  
**Smart Sense™**

Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5

# powermax85®

## M85 and M85m machine torch assembly



### M85 assembly

Part number	Description
087092*	M85 Machine torch assembly with 15' (4.6 m) lead
087093*	M85 Machine torch assembly with 25' (7.6 m) lead
087094*	M85 Machine torch assembly with 35' (10.7 m) lead
087095*	M85 Machine torch assembly with 50' (15.2 m) lead
087096*	M85 Machine torch assembly with 75' (22.9 m) lead
1. 228737	Kit: M65/M85 positioning sleeve
2. 228738	Kit: M65/M85 removable gear rack
3. 228735	Kit: M65/M65m/M85/M85m front mounting sleeve
4. 228736	Kit: M65/M65m/M85/M85m adapter ring (coupler)
5. 228716	Kit: M65/M65m/M85/M85m torch main body replacement
6. 228720	Kit: Cap-sensor switch replacement
7. 058519	O-ring
8. 075504	Pilot terminal screw
9. 228730	Kit: M65/M65m/M85/M85m torch lead replacement, 15' (4.6 m)
9. 228731	Kit: M65/M65m/M85/M85m torch lead replacement, 25' (7.6 m)
9. 228732	Kit: M65/M65m/M85/M85m torch lead replacement, 35' (10. m)
9. 228733	Kit: M65/M65m/M85/M85m torch lead replacement, 50' (15.2 m)
9. 228734	Kit: M65/M65m/M85/M85m torch lead replacement, 75' (22.9 m)
128650	Remote start pendant for machine torch, 25' (7.63 m)
128651	Remote start pendant for machine torch, 50' (15.24 m)
128652	Remote start pendant for machine torch, 75' (22.86 m)
223035†	Kit: 85 A Work lead with hand clamp, 25' (7.5 m)

\*Assembly includes one set of mechanized consumables

†Other work lead options available

### M85m assembly

Part number	Description
087097*	M85m Mini-machine torch assembly with 15' (4.6 m) lead
087098*	M85m Mini-machine torch assembly with 25' (7.6 m) lead
087099*	M85m Mini-machine torch assembly with 35' (10.7 m) lead
087100*	M85m Mini-machine torch assembly with 50' (15.2 m) lead
087101*	M85m Mini-machine torch assembly with 75' (22.9 m) lead
3. 228735	Kit: M65/M65m/M85/M85m front mounting sleeve
4. 228736	Kit: M65/M65m/M85/M85m adapter ring (coupler)
5. 228716	Kit: M65/M65m/M85/M85m torch main body replacement
6. 228720	Kit: Cap-sensor switch replacement
7. 058519	O-ring
8. 075504	Pilot terminal screw
9. 228730	Kit: M65/M65m/M85/M85m torch lead replacement, 15' (4.6 m)
9. 228731	Kit: M65/M65m/M85/M85m torch lead replacement, 25' (7.6 m)
9. 228732	Kit: M65/M65m/M85/M85m torch lead replacement, 35' (10.7 m)
9. 228733	Kit: M65/M65m/M85/M85m torch lead replacement, 50' (15.2 m)
9. 228734	Kit: M65/M65m/M85/M85m torch lead replacement, 75' (22.9 m)
128650	Remote start pendant for machine torch, 25' (7.63 m)
128651	Remote start pendant for machine torch, 50' (15.24 m)
128652	Remote start pendant for machine torch, 75' (22.86 m)
223035†	Kit: 85 A Work lead with hand clamp, 25' (7.5 m)

\*Assembly includes one set of mechanized consumables

†Other work lead options available





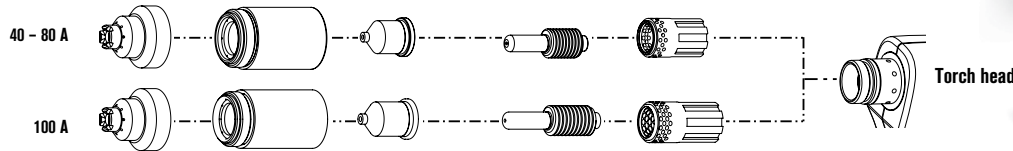
# Hypertherm®

## powermax1650™ G3 SERIES™

### T100 hand torch consumables

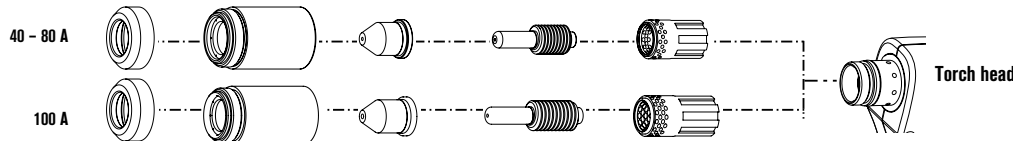


#### Shielded consumables



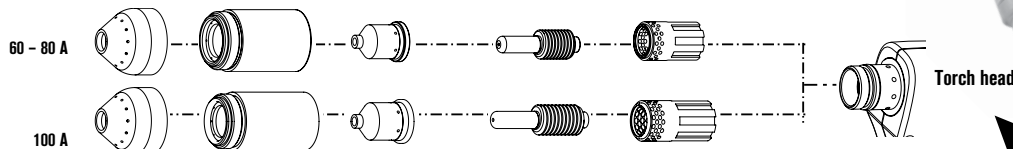
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929*	120928	120932*	120926*	120925
60 A	120929*	120928	120931*	120926*	120925
80 A	120929*	120928	120927*	120926*	120925
100 A	220065*	220048	220011*	220037*	220051

#### Unshielded\*\* consumables



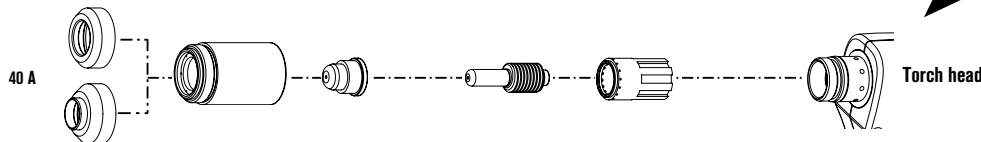
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925
100 A	120977	220048	220063	220037*	220051

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE***	220325	120928	220329	120926*	220327

All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 - 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.  
 \*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.  
 \*\*\* CE shield for use in countries requiring CE, CCC, GOST marks.



#### TECHNOLOGIES

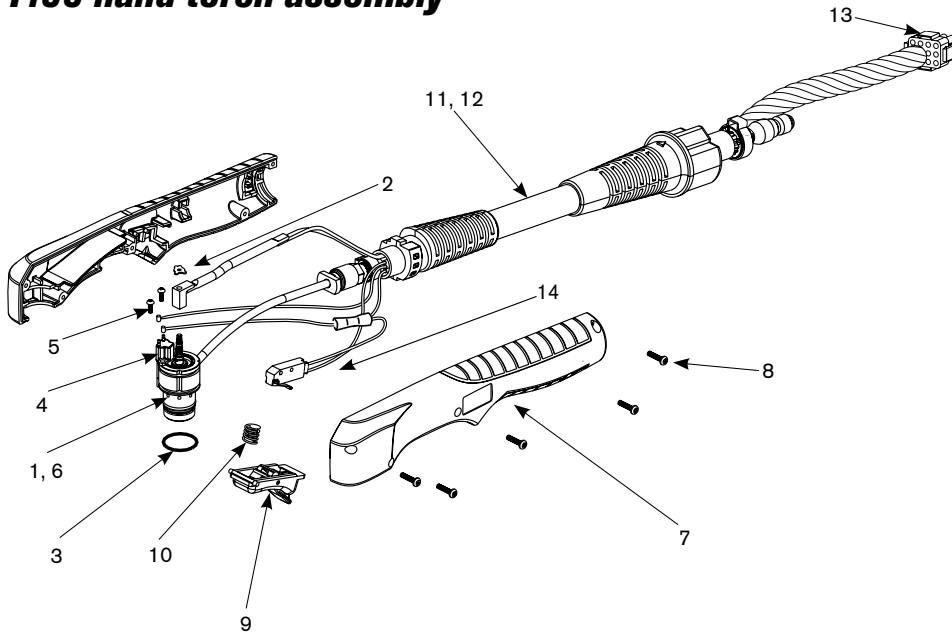
**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1650<sup>®</sup>

## T100 hand torch assembly



### Assembly

Part number	Description
059264*	T100 hand torch assembly with 25' (7.6 m) leads
059270*	T100 hand torch assembly with 50' (15.2 m) leads
059299*	T100 hand torch assembly with 75' (22.9 m) leads
059309*	Test torch with 6' (1.8 m) leads
1. 128767	Kit: T100 torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: Cap-off sensor replacement
5. 075571	Cap-off sensor screws
6. 128768	Kit: T100/T100M torch head repair (does not include head)
7. 128644	Kit: T100 torch handle replacement
8. 075714	Handle screws
9. 002244	Safety trigger
10. 027254	Trigger spring
11. 128755	Kit: T100 lead replacement, 25' (7.6 m)
12. 128752	Kit: T100 lead replacement, 50' (15.2 m)
13. 128772	Kit: ETR connector repair (regional repair centers only)
14. 128642	Kit: Start switch replacement
123654	Work lead with clamp, 20' (6.1 m)
123655	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables

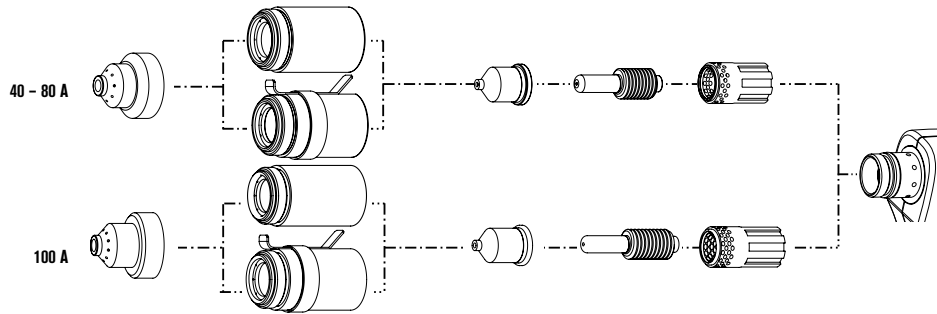


# Hypertherm®

## powermax1650™ G3 SERIES™

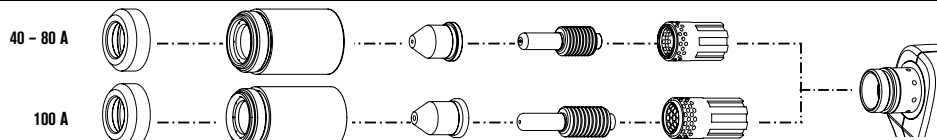
### T100M machine torch consumables

#### Shielded consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
100 A	220047*	220048	220011*	220037*	220051
40 - 80 A Ohmic		220061			
100 A Ohmic		220206			

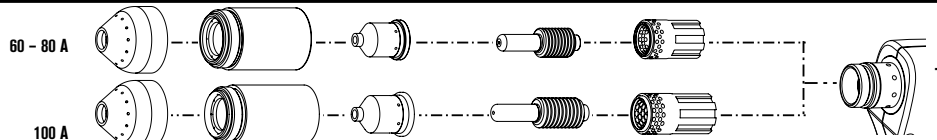
#### Unshielded consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051



#### Gouging consumables

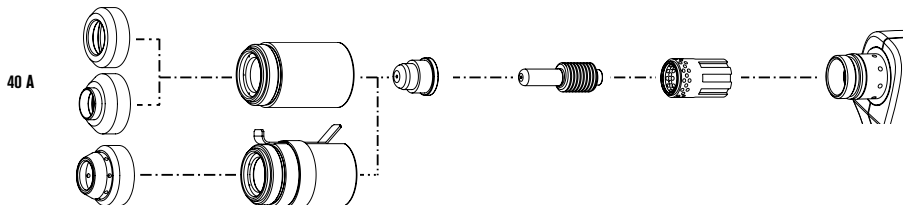


	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925
100 A	120977	220048	220063	220037*	220051



**For improved performance, retrofit with a Duramax MRT [see page 85].**

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

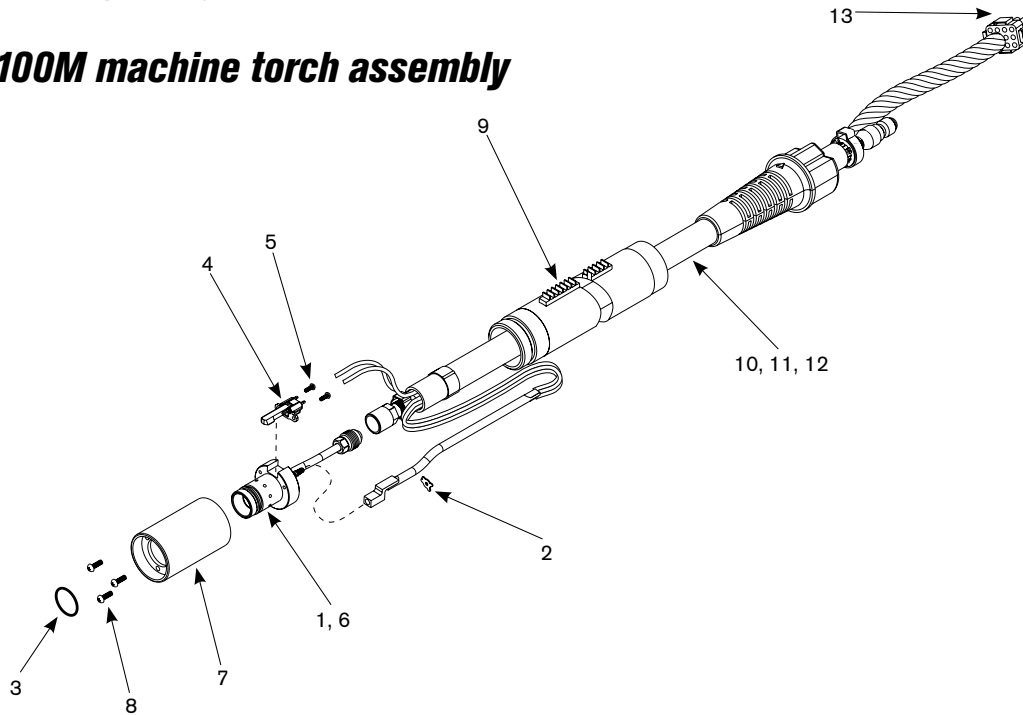
\* Consumables available in multiple packaging options, see page 87 for bulk package information.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1650<sup>®</sup>

## T100M machine torch assembly



### Assembly

Part number	Description
059309*	Test torch with 6' (1.8 m) leads
1. 128754	Kit: T100M torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: Cap sensor switch replacement
5. 075571	Cap-off sensor screws
6. 128768	Kit: T100/T100M torch head repair (does not include head)
7. 128643	Kit: T100M mounting sleeve replacement
8. 075004	Torch mounting screws
9. 128710	Torch positioning sleeve
10. 128753	Kit: T100/T100M lead replacement, 25' (7.6 m)
11. 128751	Kit: T100/T100M lead replacement, 35' (10.7 m)
12. 128759	Kit: T100/T100M lead replacement, 50' (15.2 m)
13. 128772	Kit: ETR connector repair (regional repair centers only)
128645	Kit: Torch mounting (for reassembly after installation)
128650	On/Off pendant for machine torch, 25' (7.6 m)
128651	On/Off pendant for machine torch, 50' (15.2 m)
128652	On/Off pendant for machine torch, 75' (22.9 m)
123654	Work lead with clamp, 20' (6.1 m)
123655	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables

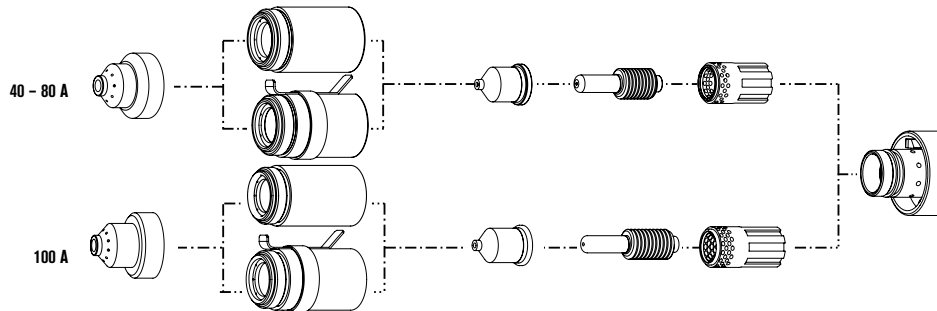


# Hypertherm®

## powermax1650™ G3 SERIES™

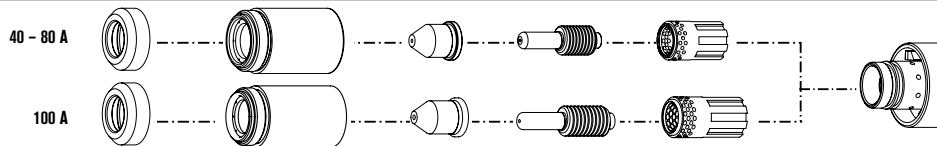
### T100M-2 machine torch consumables

#### Shielded consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
100 A	220047*	220048	220011*	220037*	220051
40 - 80 A Ohmic		220061			
100 A Ohmic		220206			

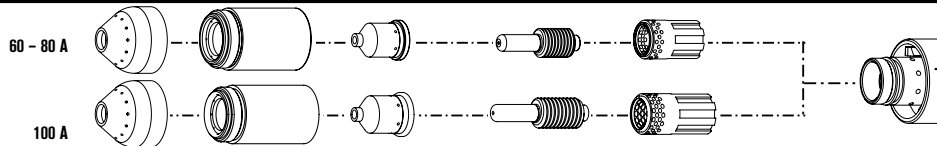
#### Unshielded\* consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051



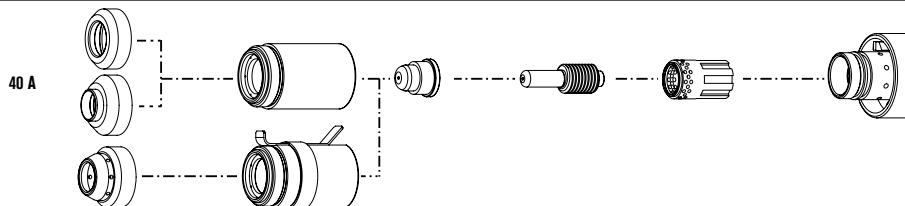
#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925
100 A	120977	220048	220063	220037*	220051



#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

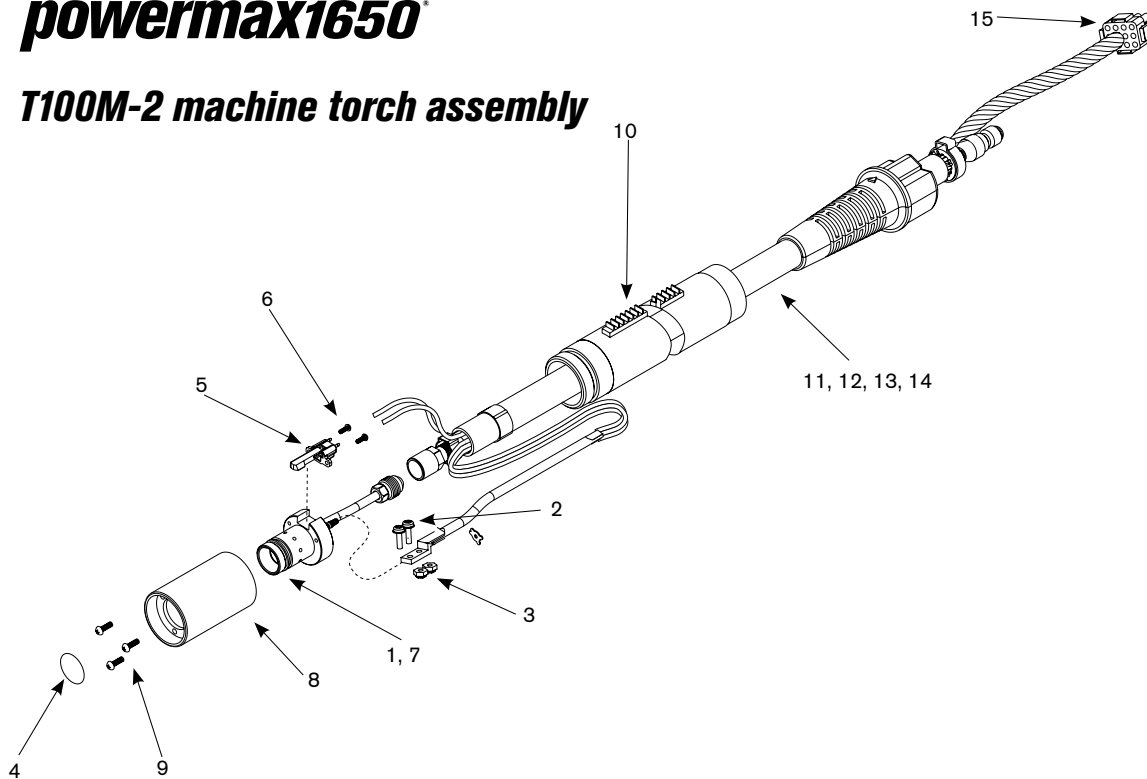
\* Consumables available in multiple packaging options, see page 87 for bulk package information.  
 \*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1650<sup>®</sup>

## T100M-2 machine torch assembly



### Assembly

Part number	Description
059315*	T100M-2 machine torch assembly with 25' (7.6 m) leads
059324*	T100M-2 machine torch assembly with 35' (10.7 m) leads
059325*	T100M-2 machine torch assembly with 50' (15.2 m) leads
059326*	T100M-2 machine torch assembly with 75' (22.9 m) leads
1. 228523	Kit: T100M-2 torch main body replacement (does not include cap sensor)
2. 075473	Machine screws
3. 075503	Lock nuts
4. 058519	O-ring
5. 128639	Kit: Cap-off sensor replacement
6. 075571	Cap-off sensor screws
7. 228522	Kit: T100M-2 torch head repair
8. 128643	Kit: Torch mounting sleeve replacement
9. 075004	Torch mounting screws
10. 128710	Torch positioning sleeve
11. 228222	Kit: T100M-2 lead replacement, 25' (7.6 m)
12. 228223	Kit: T100M-2 lead replacement, 35' (10.7 m)
13. 228224	Kit: T100M-2 lead replacement, 50' (15.2 m)
14. 228225	Kit: T100M-2 lead replacement, 75' (22.9 m)
15. 128772	Kit: ETR connector repair (regional repair centers only)
128645	Kit: Torch mounting (for reassembly after installation)

\*Assembly includes consumables

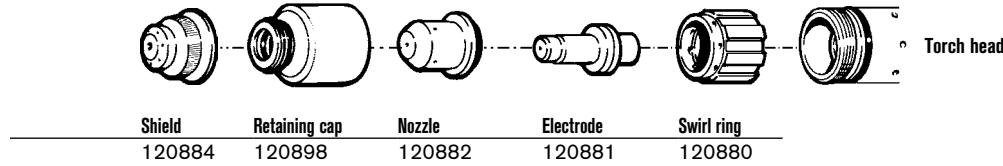


# Hypertherm® powermax190c

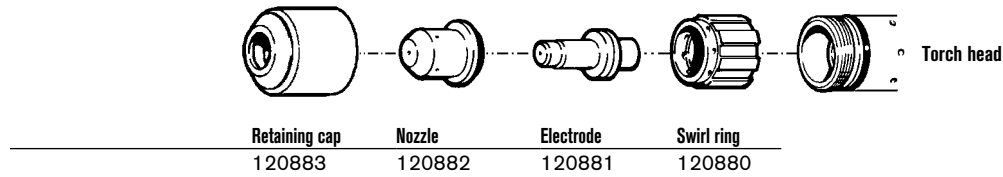
## PAC105T hand torch consumables



### Shielded consumables



### Unshielded\* consumables



### TECHNOLOGIES

#### Vented shield

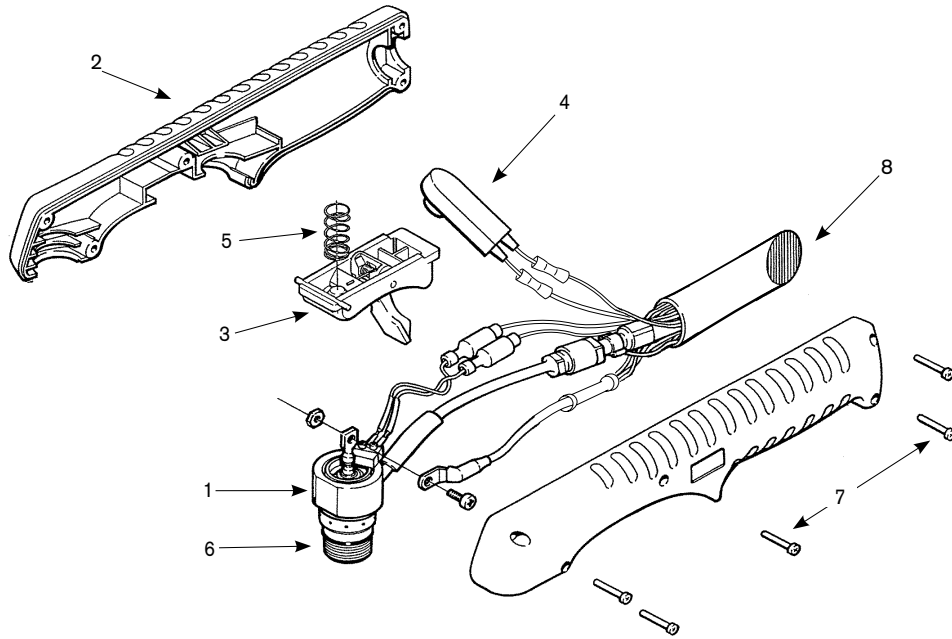
\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax190c

## PAC105T hand torch assembly



### Assembly

Part number	Description
128833*	PAC105 hand torch assembly with 20' (6.1 m) leads
1. 120874	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 002244	Safety trigger assembly
4. 005202	Switch, torch pushbutton
5. 027254	Trigger spring
6. 058503	O-ring, Viton .625 x .070
7. 075339	Screws #4 x 1/2" (five required)
8. 128478	Torch lead replacement, 20' (6.1 m)
060133	Work lead with clamp 15' (4.6 m)

\*Assembly includes consumables





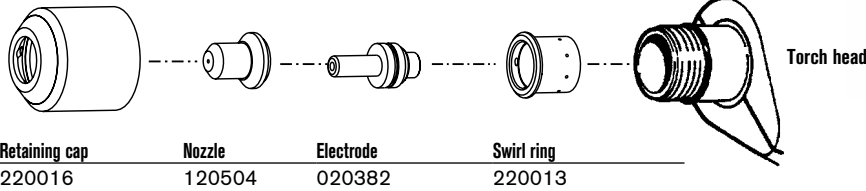
# Hypertherm®

## powermax350

### PAC110 hand torch consumables



#### Extended\* consumables



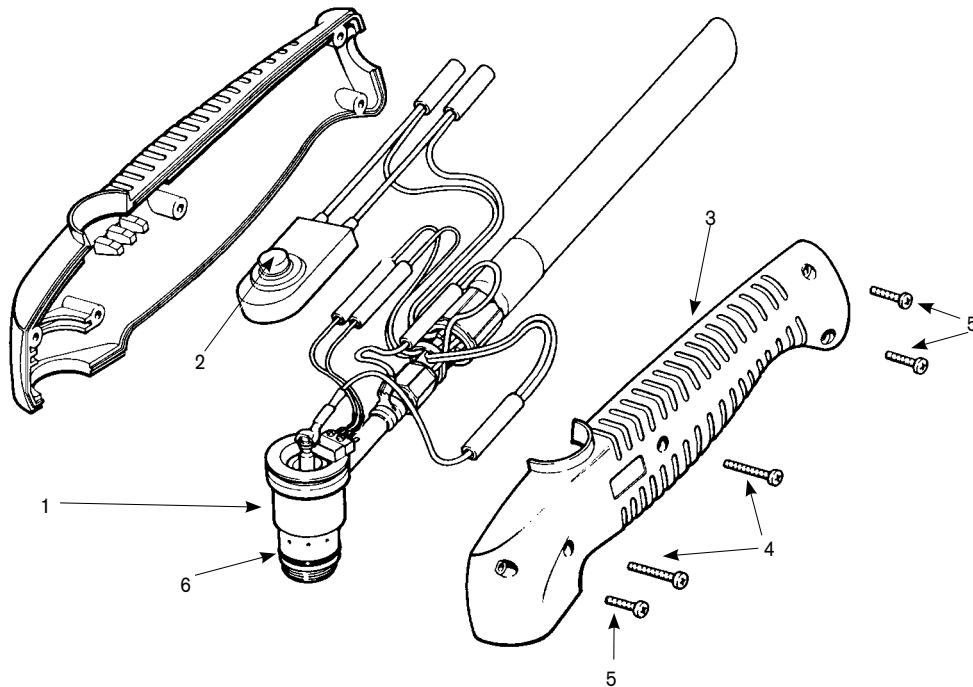
\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax350

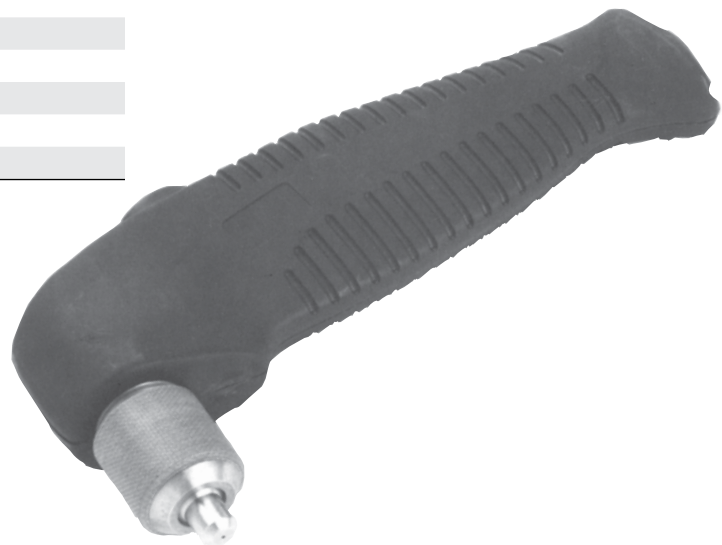
## PAC110 hand torch assembly



### Assembly

Part number	Description
070057*	PAC110 hand torch assembly with 15' (4.6 m) leads
070058*	PAC110 hand torch assembly with 25' (7.6 m) leads
070779*	PAC110T hand torch replacement with 20' (6.1 m) leads
1. 020588	Torch main body with switch
2. 005094	Switch, torch pushbutton
3. 001192	Handle (includes both halves)
4. 075341	Screw, #4 x 3/4" (two required)
5. 075339	Screw, #4 x 1/2" (three required)
6. 044016	O-ring, Buna - N 90 Duro
029241	Torch leads, 15' (4.6 m)
029257	Torch leads, 25' (7.6 m)
060169	Work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables



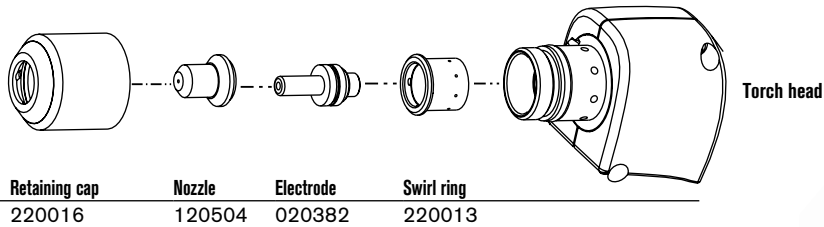
# Hypertherm®

## powermax380

### PAC110T hand torch consumables



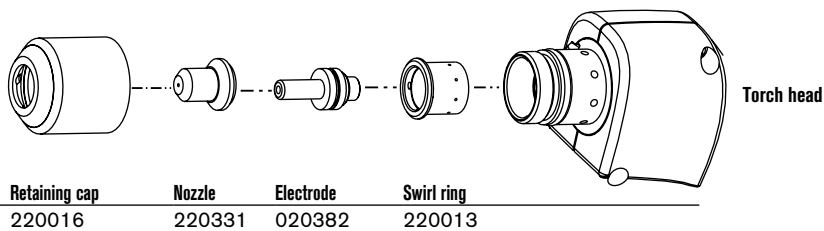
#### Extended\* consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	120504	020382	220013



#### FineCut consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	220331	020382	220013

#### TECHNOLOGIES

**FineCut®**

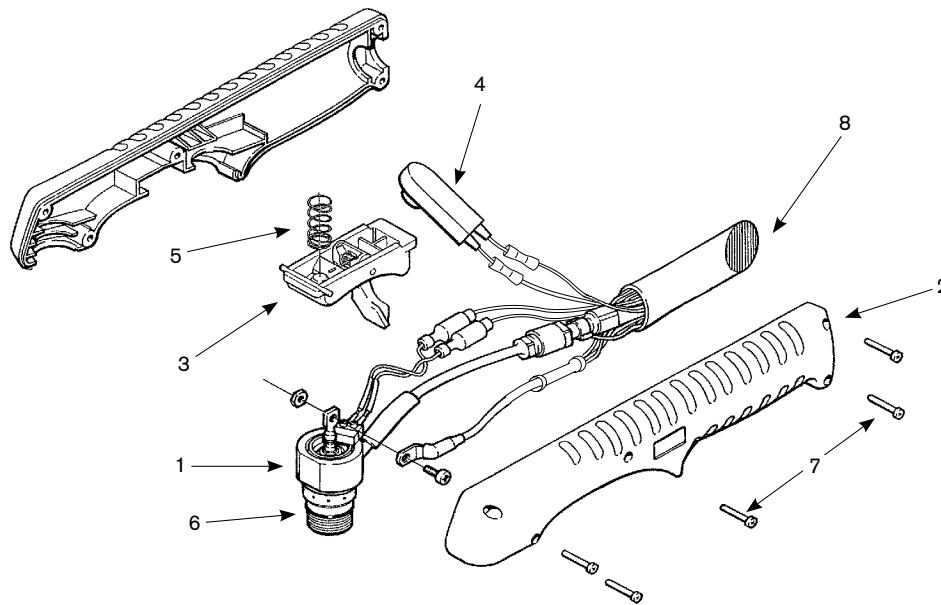
\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax380

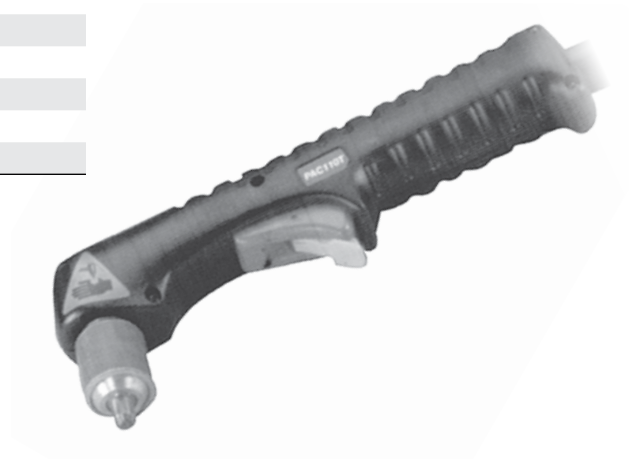
## PAC110T hand torch assembly



### Assembly

	Part number	Description
	070071*	PAC110T hand torch assembly with 20' (6.1 m) leads
1.	120976	Torch main body with switch
2.	001288	Handle (includes both halves)
3.	002244	Safety trigger assembly
4.	005202	Switch, torch pushbutton
5.	027254	Trigger spring
6.	058503	O-ring, Viton .625 x .070
7.	075339	Screws #4 x 1/2", (five required)
8.	060208	Torch lead replacement, 20' (6.1 m)
	060169	Work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables



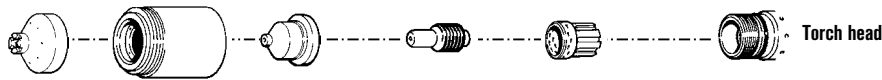
# Hypertherm®

## powermax600

### PAC123T hand torch consumables

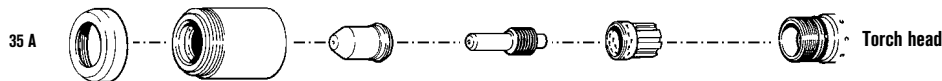


#### Shielded consumables



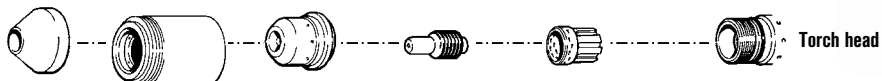
Shield	Retaining cap	Nozzle	Electrode	Swirl ring
120828	120600	120826	120573	120576

#### Unshielded\* consumables



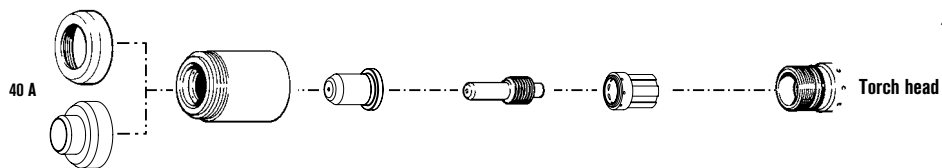
35 A	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A	120303	120600	120606	120574	120576

#### Gouging consumables



Shield	Retaining cap	Nozzle	Electrode	Swirl ring
120608	120600	120831	120573	120576

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	220332
40 A CE**	220326	120600	220330	120574	220332



**For improved performance, retrofit with the RT60 torch (see page 75).**

Note:

The nozzles and swirl rings shown must be used as a set.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

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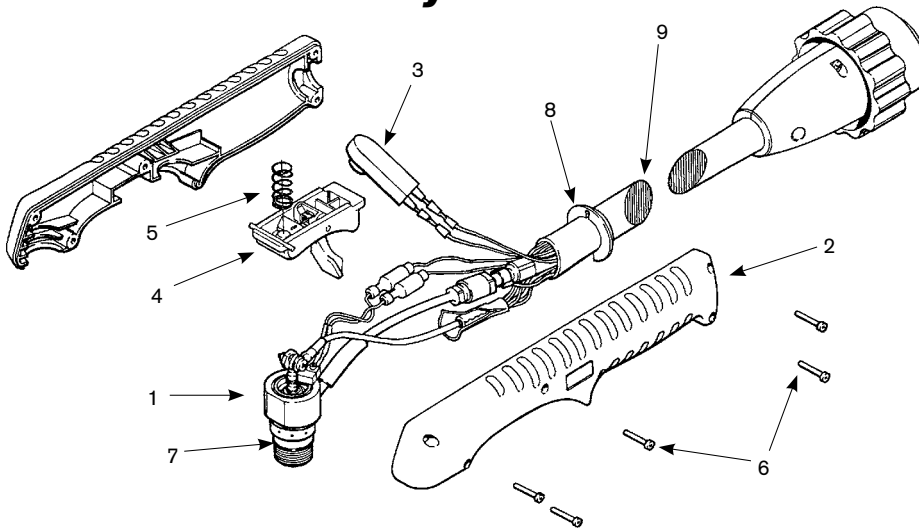
#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax600

## PAC123T hand torch assembly



### Assembly – torch with quick disconnects only for use with 208-240V and 480V systems

Part number	Description
086023*	PAC123T hand torch assembly with QD 15' (4.6 m) leads
086024*	PAC123T hand torch assembly with QD 25' (7.6 m) leads
086025*	PAC123T hand torch assembly with QD 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
9. 129599	Torch leads with QD, 15' (4.6 m)
9. 129600	Torch leads with QD, 25' (7.6 m)
9. 129601	Torch leads with QD, 50' (15.2 m)
123375	Work lead with clamp, 15' (4.6 m)
128379	Work lead with clamp, 50' (15.2 m)

### Assembly – torch without quick disconnects only for use with 230V and 400V systems

Part number	Description
086001*	PAC123T hand torch assembly, without QD 15' (4.6 m) leads
086002*	PAC123T hand torch assembly, without QD 25' (7.6 m) leads
086003*	PAC123T hand torch assembly, without QD 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
9. 129475	Torch leads, without QD, 15' (4.6 m)
9. 129476	Torch leads, without QD, 25' (7.6 m)
9. 129477	Torch leads, without QD, 50' (15.2 m)
1. 120570	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128377	Kit: Switch repair
4. 002244	Safety trigger assembly
5. 027254	Trigger spring
6. 075339	Screw, #4 x 1/2" (five required)
7. 044016	O-ring, Buna – N 90 Duro
8. 004764	Retaining ring, Gutcha
123375	Work lead with clamp, 15' (4.6 m)
128379	Work lead with clamp, 50' (15.2 m)

\* Assembly includes consumables



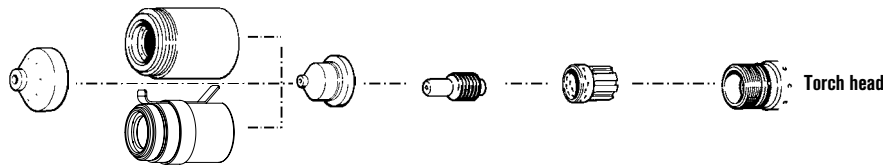
# Hypertherm®

## powermax600

### PAC123M machine torch consumables

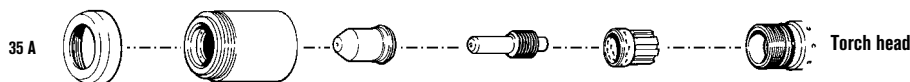


#### Shielded consumables



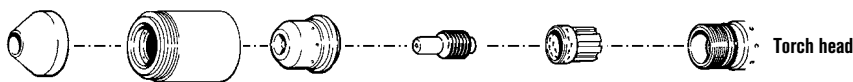
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
	120827	120600	120826	120573	120576
<b>Ohmic</b>		120964			

#### Unshielded consumables



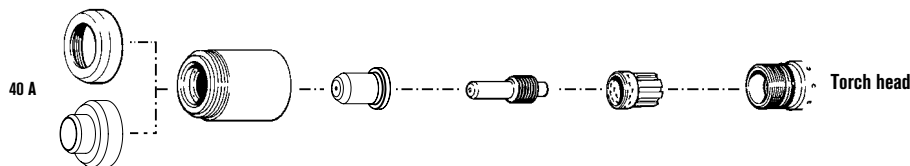
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
<b>35 A</b>	120303	120600	120606	120574	120576

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
	120608	120600	120831	120573	120576

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
<b>40 A</b>	120303	120600	220330	120574	120576
<b>40 A CE</b>	220326	120600	220330	120574	120576

Note:

The nozzles and swirl rings shown must be used as a set.



#### TECHNOLOGIES

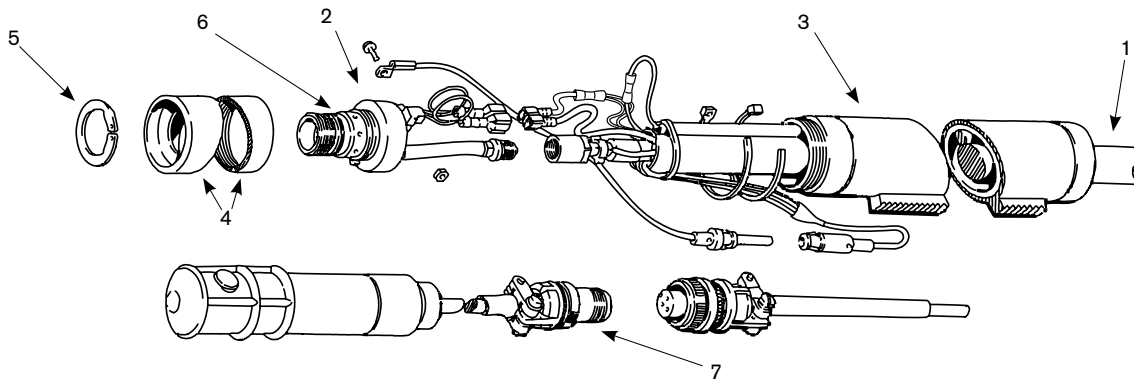
**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax600

## PAC123M torch assembly



### Assembly – torch with quick disconnects only for use with 208-240V and 480V systems

Part number	Description
086026*	PAC123M machine torch assembly with QD 15' (4.6 m) leads (with pigtail)
086027*	PAC123M machine torch assembly with QD 25' (7.6 m) leads (with pigtail)
086029*	PAC123M machine torch assembly with QD 50' (15.2 m) leads (with pigtail)
083219*	Test torch with 6' (1.8 m) leads
1. 128572	Torch leads with QD, 15' (4.6 m) (with pigtail)
1. 128573	Torch leads with QD, 25' (7.6 m) (with pigtail)
1. 128574	Torch leads with QD, 50' (15.2 m) (with pigtail)
123375	Work lead with clamp, 15' (4.6 m)
128379	Work lead with clamp, 50' (15.2 m)

### Assembly – torch without quick disconnects only for use with 230V and 400V systems

Part number	Description
086004*	PAC123M machine torch assembly, without QD 15' (4.6 m) leads (with pigtail)
086005*	PAC123M machine torch assembly, without QD 25' (7.6 m) leads (with pigtail)
086006*	PAC123M machine torch assembly, without QD 50' (15.2 m) leads (with pigtail)
083219*	Test torch with 6' (1.8 m) leads
1. 128374	Torch leads, without QD, 15' (4.6 m) (with pigtail)
1. 128375	Torch leads, without QD, 25' (7.6 m) (with pigtail)
1. 128376	Torch leads, without QD, 50' (15.2 m) (with pigtail)
2. 120583	Torch main body with switch
3. 020620	Torch position sleeve
4. 120613	Torch sleeve
5. 027599	Snap ring
6. 044016	O-ring, Buna – N 90 Duro
7. 028714	On/Off pendant, 25' (7.6 m)
7. 128061	On/Off pendant, 50' (15.2 m)
7. 128062	On/Off pendant, 75' (22.9 m)
029257	Torch leads, 25' (7.6 m)
128379	Work lead with clamp, 50' (15.2 m)

\* Assembly includes consumables

**For improved performance, retrofit with the RT60M torch (see page 77).**



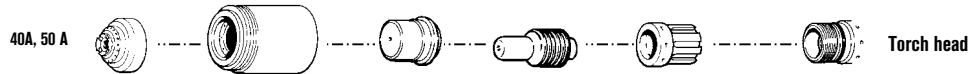


# Hypertherm®

## powermax800

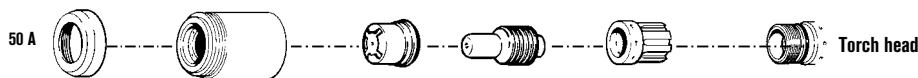
### PAC121TS/125T hand torch consumables

#### Shielded consumables



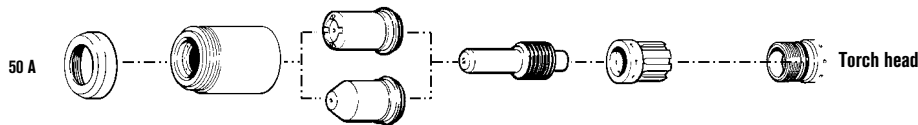
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120601	120600	120438	120573	020361
50 A	120601	120600	120282	120573	020361

#### Unshielded\* consumables



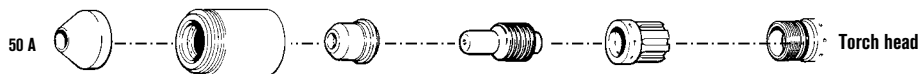
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	020395	120573	020361

#### Extended consumables



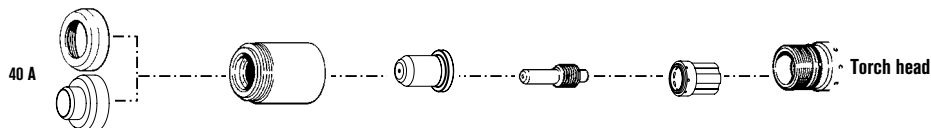
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	120304	120574	020361
Pipe saddle	120303	120600	120305	120574	020361

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120608	120600	120281	120573	020361

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	220332
40 A CE**	220326	120600	220330	120574	220332

**Notes:**

The nozzles and swirl rings shown must be used as a set.

A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

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**For improved performance, retrofit with the RT60 torch (see page 75).**

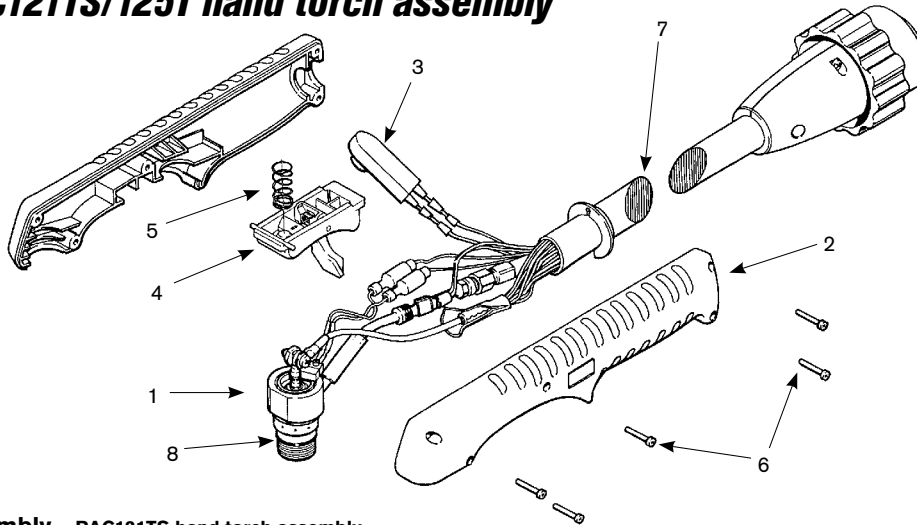
**TECHNOLOGIES**

**FineCut®**  
**Spiral groove**  
**Vented shield**

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax800

## PAC121TS/125T hand torch assembly



### Assembly – PAC121TS hand torch assembly

Part number	Description
083130*	PAC125T/Powermax800 hand torch assembly with 25' (7.6 m) leads
083131*	PAC125T/Powermax800 hand torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 120556	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128284	Switch, torch pushbutton
4. 002244	Safety trigger assembly
5. 027254	Trigger spring
6. 075340	Screw, #4 x 5/8" (five required)
7. 129001	PAC121TS torch leads, 25' (7.6 m)
7. 129002	PAC121TS torch leads, 50' (15.2 m)
8. 044016	O-ring, Buna – N 90 Duro
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

### Assembly – PAC125T hand torch assembly

Part number	Description
083130*	PAC125T/Powermax800 hand torch assembly with 25' (7.6 m) leads
083131*	PAC125T/Powermax800 hand torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 120570	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128284	Switch, torch pushbutton
4. 002244	Safety trigger assembly
5. 027254	Trigger spring
6. 075340	Screw, #4 x 5/8" (five required)
7. 129352	PAC125T torch leads, 25' (7.6 m)
7. 129353	PAC125T torch leads, 50' (15.2 m)
8. 044016	O-ring, Buna – N 90 Duro
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables

#### Note:

A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.

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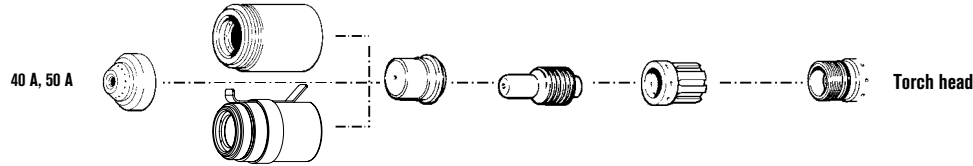


# Hypertherm®

## powermax800

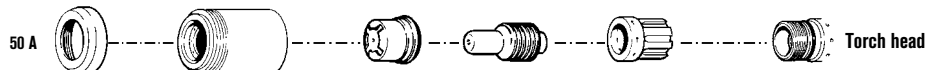
### PAC121M/125M machine torch consumables

#### Shielded consumables



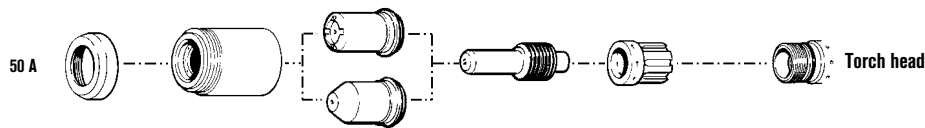
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120602	120600	120438	120573	020361
50 A	120602	120600	120282	120573	020361
Ohmic		120964			

#### Unshielded consumables



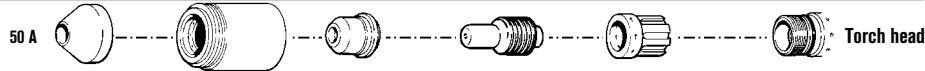
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	020395	120573	020361

#### Extended consumables



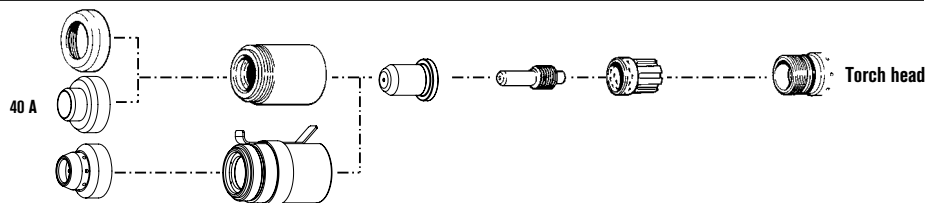
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	120304	120574	020361
Pipe saddle	120303	120600	120305	120574	020361

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120608	120600	120281	120573	020361

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	120576
40 A CE	220326	120600	220330	120574	120576
Ohmic	220403	120964			

#### Notes:

The nozzles and swirl rings shown must be used as a set.

A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.



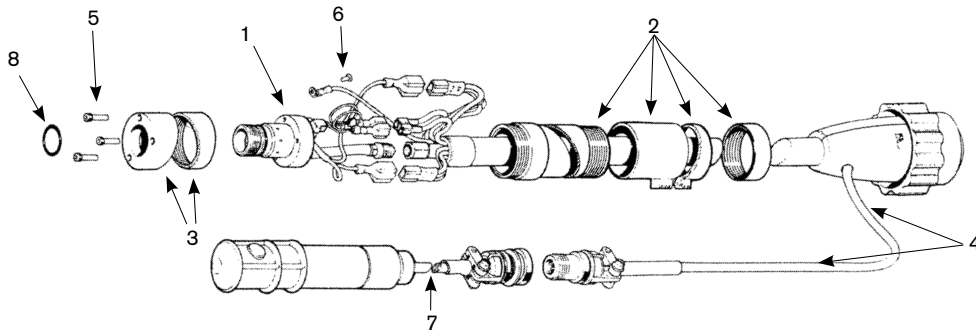
#### TECHNOLOGIES

**FineCut®**  
**Spiral groove**  
**Vented shield**

Hypertherm, Powermax, PAC and FineCut are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## PAC121M/PAC125M machine torch assembly



### Assembly – PAC121M machine torch assembly

Part number	Description
083219*	Test torch with 6' (1.8 m) leads
1. 120558	Torch main body with switch
2. 020620	Torch position sleeve
3. 020559	Torch sleeve
4. 028923	Torch lead with pigtail, 14' (4.3 m)
4. 028918	Torch lead with pigtail, 25' (7.6 m)
4. 028926	Torch lead with pigtail, 35' (10.7 m)
4. 028919	Torch lead with pigtail, 50' (15.2 m)
5. 075321	Screw, 4-40 x 1/2, Hex, SS (three required)
6. 075322	Screw, 4-40 x 1/4, SL, SZ
7. 028461	On/Off pendant, 25' (7.6 m)
7. 028462	On/Off pendant, 50' (15.2 m)
7. 028463	On/Off pendant, 75' (22.9 m)
8. 044016	O-ring: Buna 90 Duro .614 x .070
4. 128123	Torch lead, 14' (4.3 m) (without pigtail)
4. 128125	Torch lead, 25' (7.6 m) (without pigtail)
4. 128126	Torch lead, 35' (10.7 m) (without pigtail)
4. 128127	Torch lead, 50' (15.2 m) (without pigtail)
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

### Assembly – PAC125M machine torch assembly

Part number	Description
083136*	PAC125M torch assembly with pigtail with 14' (4.3 m) leads
083137*	PAC125M torch assembly with pigtail with 25' (7.6 m) leads
083138*	PAC125M torch assembly with pigtail with 35' (10.7 m) leads
083139*	PAC125M torch assembly with pigtail with 50' (15.2 m) leads
083140*	PAC125M torch assembly without pigtail with 14' (4.3 m) leads
083141*	PAC125M torch assembly without pigtail with 25' (7.6 m) leads
083142*	PAC125M torch assembly without pigtail with 35' (10.7 m) leads
083143*	PAC125M torch assembly without pigtail with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 120583	Torch main body with switch
2. 020620	Torch position sleeve
3. 120613	Torch sleeve
4. 129339	Torch lead with pigtail, 15' (4.6 m)
4. 129338	Torch lead with pigtail, 25' (7.6 m)
4. 129340	Torch lead with pigtail, 35' (10.7 m)
4. 129341	Torch lead with pigtail, 50' (15.2 m)
4. 129343	Torch lead without pigtail, 14' (4.3 m)
4. 129342	Torch lead without pigtail, 25' (7.6 m)
4. 129344	Torch lead without pigtail, 35' (10.7 m)
4. 129345	Torch lead without pigtail, 50' (15.2 m)
5. 075321	Screw, 4-40 x 1/2, Hex, SS (three required)
6. 075322	Screw, 4-40 x 1/4, SL, SZ
7. 028714	On/Off pendant, 25' (7.6 m)
7. 128061	On/Off pendant, 50' (15.2 m)
7. 128062	On/Off pendant, 75' (22.9 m)
8. 044016	O-ring: Buna 90 Duro .614 x .070
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



# Hypertherm®

## powermax900

### PAC125T hand torch consumables

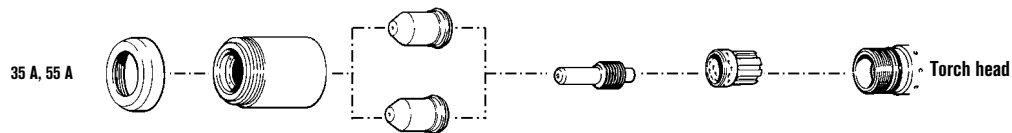


#### Shielded consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120601	120600	120577	120573	120576

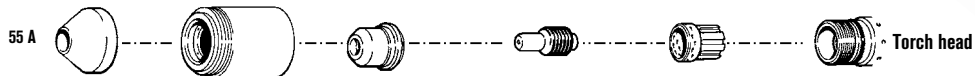
#### Unshielded\* consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A Pipe saddle	120303	120600	120606	120574	120576
55 A Pipe saddle	120303	120600	120578	120574	120576



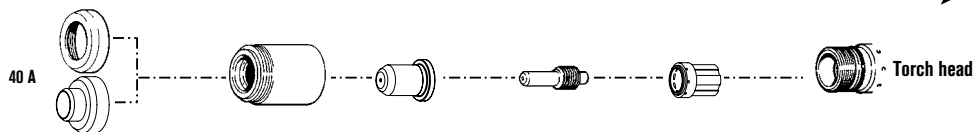
#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120608	120600	120607	120573	120576



#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	220332
40 A CE**	220326	120600	220330	120574	220332

Note:

The nozzles and swirl rings shown must be used as a set.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

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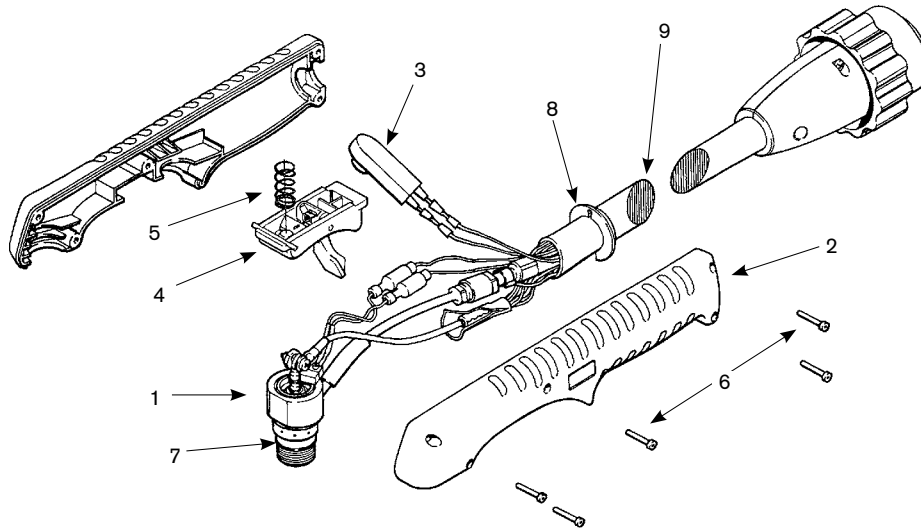
#### TECHNOLOGIES

**FineCut®**  
**Spiral groove**  
**Vented shield**  
**HyLife®**

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax900

## PAC125T hand torch assembly



### Assembly

Part number	Description
083066*	PAC125T hand torch assembly with 25' (7.6 m) leads
083067*	PAC125T hand torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 120570	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128284	Kit: Switch repair
4. 002244	Safety trigger assembly
5. 027254	Trigger spring
6. 075339	Screw, #4 x 1/2" (five required)
7. 044016	O-ring, Buna – N 90 Duro
8. 004764	Ring, Gutcha
9. 129352	PAC125T torch leads, 25' (7.6 m)
9. 129353	PAC125T torch leads, 50' (15.2 m)
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



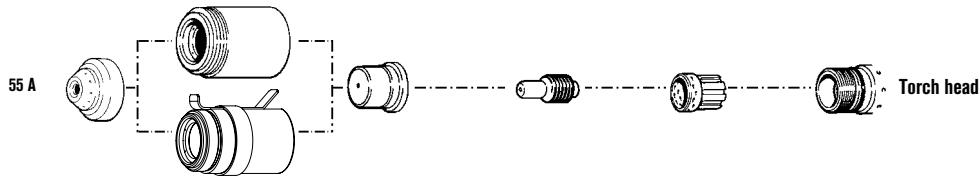
# Hypertherm®

## powermax900

### PAC125M machine torch consumables

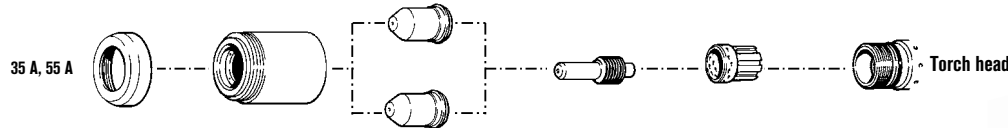


#### Shielded consumables



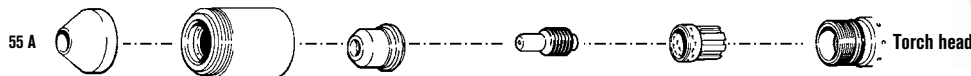
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120602	120600	120577	120573	120576
Ohmic		120964			

#### Unshielded consumables



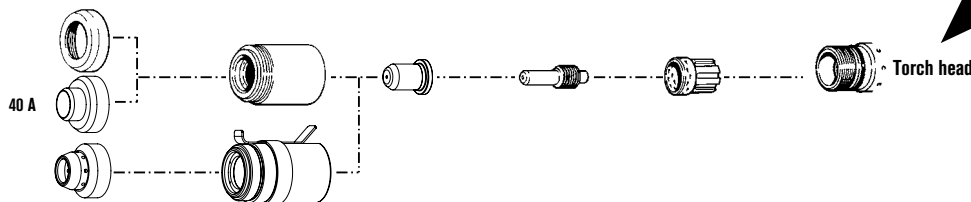
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A Pipe saddle	120303	120600	120606	120574	120576
55 A Pipe saddle	120303	120600	120578	120574	120576

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120608	120600	120607	120573	120576

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	120576
40 A CE	220326	120600	220330	120574	120576
Ohmic	220403	120964			



**For improved performance, retrofit with the RT60M torch [see page 77].**

Note:  
The nozzles and swirl rings shown must be used as a set.

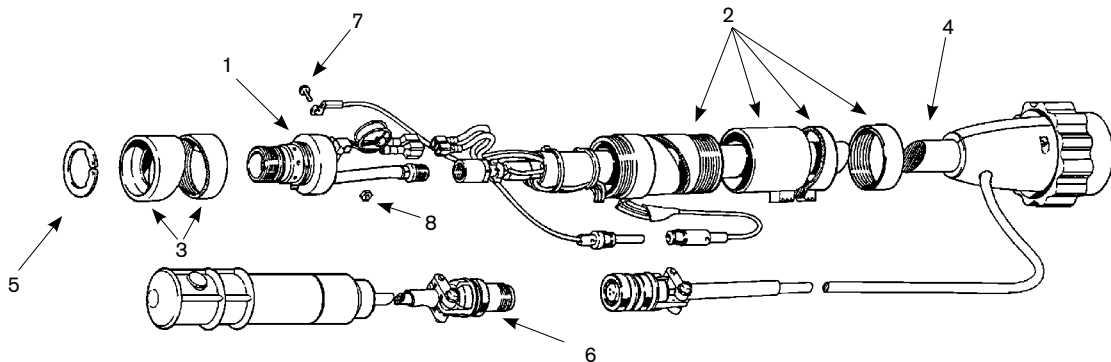
#### TECHNOLOGIES

**FineCut®**  
**Spiral groove**  
**Vented shield**  
**HyLife®**

Hypertherm, Powermax, PAC, FineCut and HyLife are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

## PAC125M machine torch assembly



### Assembly

Part number	Description
083069*	PAC125M torch assembly with pigtail with 14' (4.3 m) leads
083068*	PAC125M torch assembly with pigtail with 25' (7.6 m) leads
083070*	PAC125M torch assembly with pigtail with 35' (10.7 m) leads
083071*	PAC125M torch assembly with pigtail with 50' (15.2 m) leads
083073*	PAC125M torch assembly without pigtail with 14' (4.3 m)
083072*	PAC125M torch assembly without pigtail with 25' (7.6 m)
083074*	PAC125M torch assembly without pigtail with 35' (10.7 m)
083075*	PAC125M torch assembly without pigtail with 50' (15.2 m)
083219*	Test torch with 6' (1.8 m) leads
1. 120583	Torch main body with switch
2. 020620	Torch position sleeve
3. 120613	Torch sleeve
4. 129339	Torch lead with pigtail, 14' (4.3 m)
4. 129338	Torch lead with pigtail, 25' (7.6 m)
4. 129340	Torch lead with pigtail, 35' (10.7 m)
4. 129341	Torch lead with pigtail, 50' (15.2 m)
5. 027599	Snap ring
6. 028714	On/Off pendant, 25' (7.6 m)
6. 128061	On/Off pendant, 50' (15.2 m)
6. 128062	On/Off pendant, 75' (22.9 m)
7. 075504	Screw, 4-40 x 5/16"
8. 075503	Locknut, 4-40
4. 129343	Torch lead without pigtail, 14' (4.3 m)
4. 129342	Torch lead without pigtail, 25' (7.6 m)
4. 129344	Torch lead without pigtail, 35' (10.7 m)
4. 129345	Torch lead without pigtail, 50' (15.2 m)
023922	Work lead with clamp, 20' (6.1 m)
028907	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables





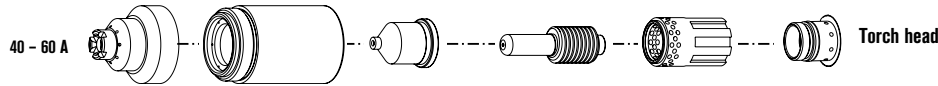
# Hypertherm®

## powermax1000™ G3 SERIES™

### T60 hand torch consumables

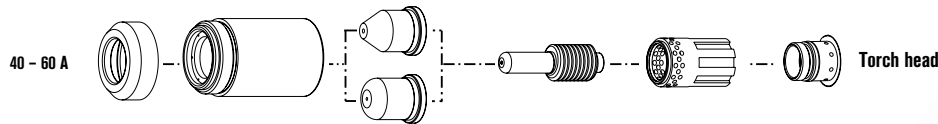


#### Shielded consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 60 A	120929	120928	120932*	120926*	120925
60 A	120929	120928	120931*	120926*	120925

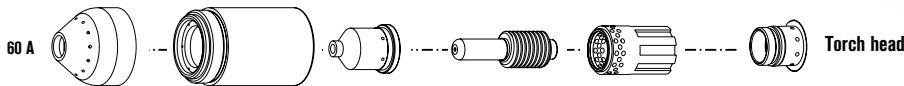
#### Unshielded\*\* consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

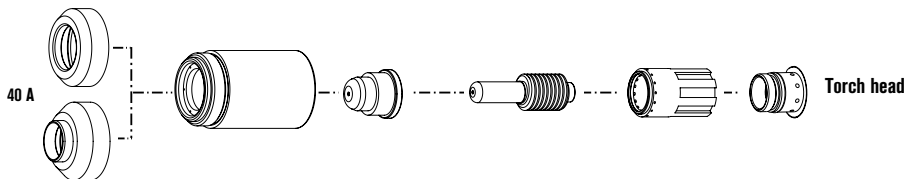


#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE***	220325	120928	220329	120926*	220327



For improved performance, retrofit with a Duramax [see page 83].

#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

\*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

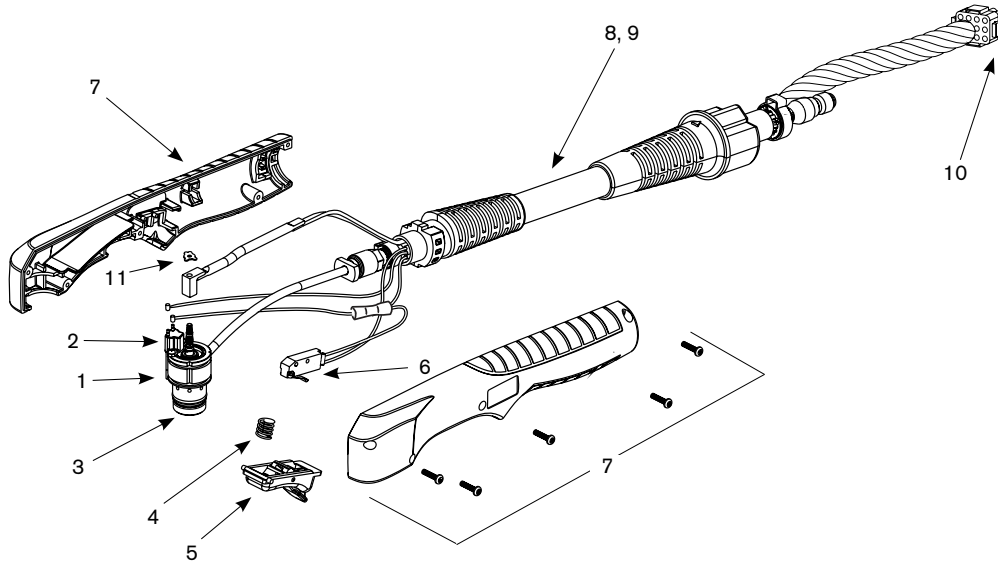
\*\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

Hypertherm, Powermax, FineCut, Coaxial-assist and HyLife are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1000

## T60 hand torch assembly



### Assembly

Part number	Description
083172*	T60 hand torch assembly with 25' (7.6 m) leads
083171*	T60 hand torch assembly with 50' (15.2 m) leads
083208*	T60 hand torch assembly with 75' (22.9 m) leads
059309*	Test torch with 6' (1.8 m) leads
1. 128564	Kit: T60/T80 torch main body replacement (does not include cap sensor)
2. 128639	Kit: Cap sensor switch replacement
075571	Cap-off sensor screws
3. 128521	Kit: T60/T80, T60M/T80M torch head repair (does not include head)
4. 027254	Trigger spring
5. 002244	Safety trigger assembly
6. 128642	Kit: T60/T80 start switch replacement
7. 128644	Kit: T60/T80 torch handle replacement
8. 128681	Kit: T60 lead replacement, 25' (7.6 m)
9. 128682	Kit: T60 lead replacement, 50' (15.2 m)
10. 128638	Kit: ETR connector repair (regional repair centers only)
11. 027889	Retaining clip
123645	Work lead with clamp, 20' (6.1 m)
128717	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



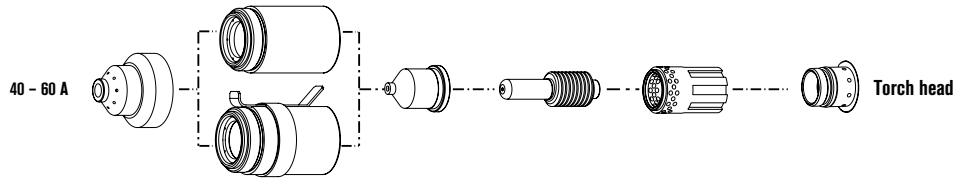
# Hypertherm®

## powermax1000™ G3 SERIES™

### T60M machine torch consumables

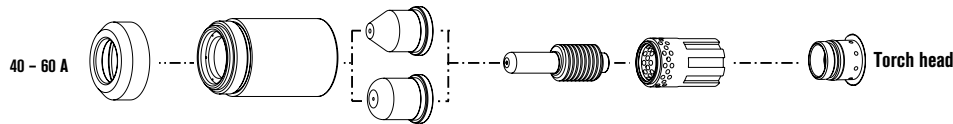


#### Shielded consumables



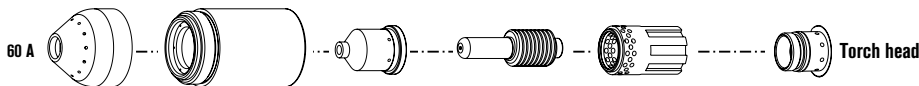
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932*	120926*	120925
60 A	120930	120928	120931*	120926*	120925
Ohmic		220061			

#### Unshielded consumables



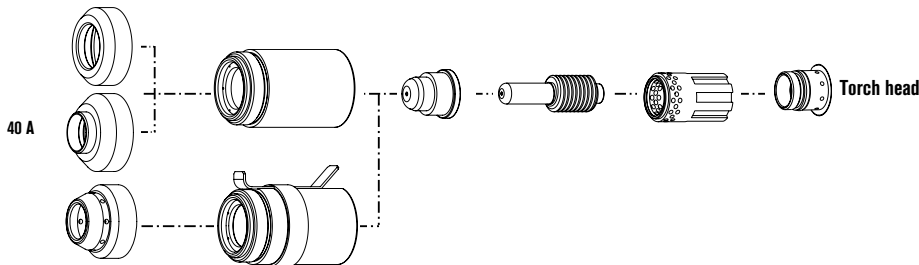
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			



**For improved performance, retrofit with a Duramax MRT [see page 85].**

#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

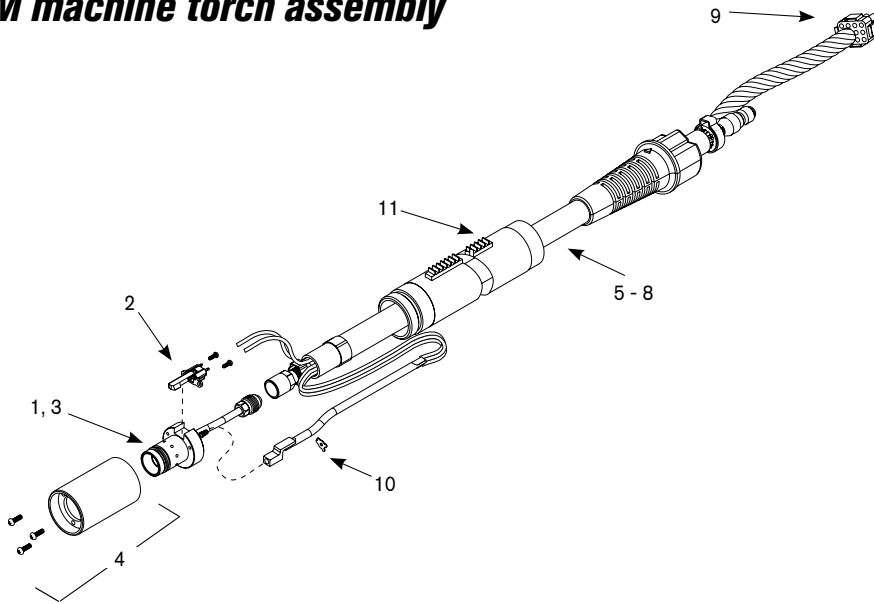
\* Consumables available in multiple packaging options, see page 87 for bulk package information.

Hypertherm, Powermax, FineCut, Coaxial-assist and HyLife are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1000

## T60M machine torch assembly



### Assembly

Part number	Description
083175*	T60M machine torch assembly with 15' (4.6 m) leads
083174*	T60M machine torch assembly with 25' (7.6 m) leads
083176*	T60M machine torch assembly with 35' (10.7 m) leads
083177*	T60M machine torch assembly with 50' (15.2 m) leads
083209*	T60M machine torch assembly with 75' (22.9 m) leads
059309*	Test torch with 6' (1.8 m) leads
128645	Kit: Torch mounting
1. 128640	Kit: T60M/T80M torch main body replacement (does not include cap sensor)
2. 128639	Kit: Cap sensor switch replacement
075571	Cap-off sensor screws
3. 128521	Kit: T60/T80, T60M/T80M torch head repair (does not include head)
4. 128643	Kit: T60M/T80M mounting sleeve replacement
5. 128634	Kit: T60M/T80M lead replacement, 15' (4.6 m)
6. 128633	Kit: T60M/T80M lead replacement, 25' (7.6 m)
7. 128635	Kit: T60M/T80M lead replacement, 35' (10.7 m)
8. 128641	Kit: T60M/T80M lead replacement, 50' (15.2 m)
9. 128638	Kit: ETR connector repair (regional repair centers only)
10. 027889	Retaining clip
11. 128710	Kit: T60/T80M positioning sleeve replacement
128650	On/Off pendant for machine torch, 25' (7.6 m)
128651	On/Off pendant for machine torch, 50' (15.2 m)
128652	On/Off pendant for machine torch, 75' (22.9 m)
123645	Work lead with clamp, 20' (6.1 m)
128717	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



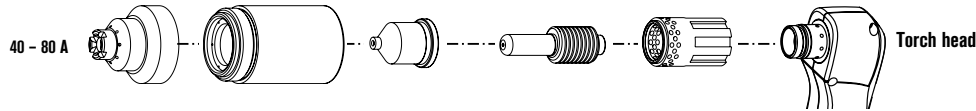
# Hypertherm®

## powermax1250™ G3 SERIES™

### T80 hand torch consumables

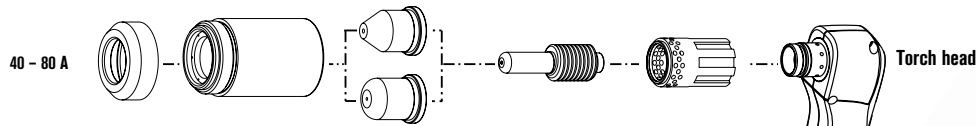


#### Shielded consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120929*	120928	120932*	120926*	120925
40 A	120929*	120928	120931*	120926*	120925
60 A	120929*	120928	120931*	120926*	120925
80 A	120929*	120928	120927*	120926*	120925

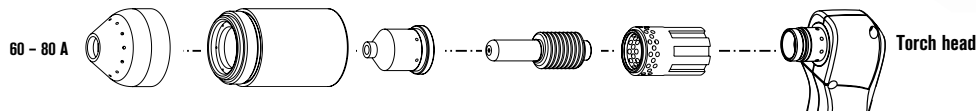
#### Unshielded\*\* consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120979	120928	220006	120926*	120925
40 A	120979	120928	220007	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

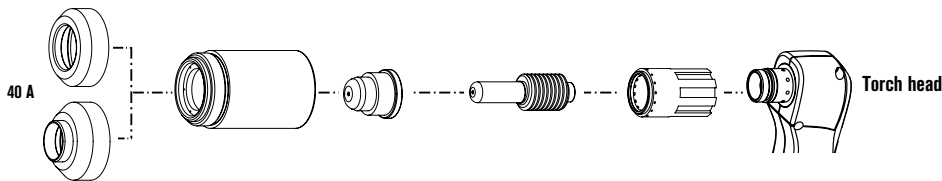


#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE***	220325	120928	220329	120926*	220327



All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 - 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

\*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

#### TECHNOLOGIES

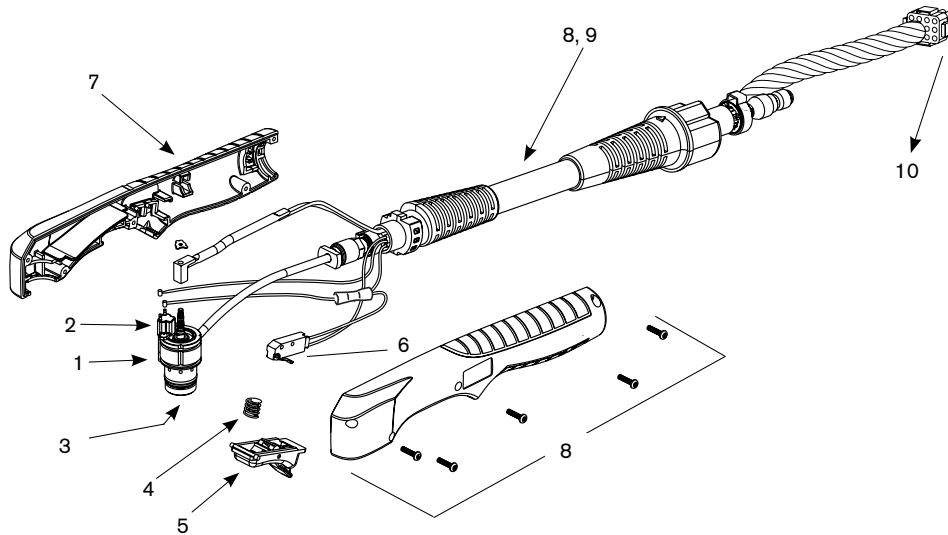
**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

Hypertherm, Powermax, FineCut, Coaxial-assist and HyLife are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1250<sup>®</sup>

## T80 hand torch assembly



### Assembly

Part number	Description
087001*	T80 hand torch assembly with 25' (7.6 m) leads
087002*	T80 hand torch assembly with 50' (15.2 m) leads
087047*	T80 hand torch assembly with 75' (22.9 m) leads
059309*	Test torch with 6' (1.8 m) leads
1. 128564	Kit: T60/T80 torch main body replacement (does not include cap sensor)
2. 128639	Kit: Cap sensor switch replacement
075571	Cap-off sensor screws
3. 128521	Kit: T60/T80, T60M/T80M torch head repair (does not include head)
4. 027254	Trigger spring
5. 002244	Safety trigger assembly
6. 128642	Kit: T60/T80 start switch replacement
7. 128644	Kit: T60/T80 torch handle replacement
8. 128636	Kit: T80 lead replacement, 50' (15.2 m)
9. 128637	Kit: T80 lead replacement, 25' (7.6 m)
10. 128638	Kit: ETR connector repair (regional repair centers only)
123106	Work lead with clamp, 20' (6.1 m)
128718	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



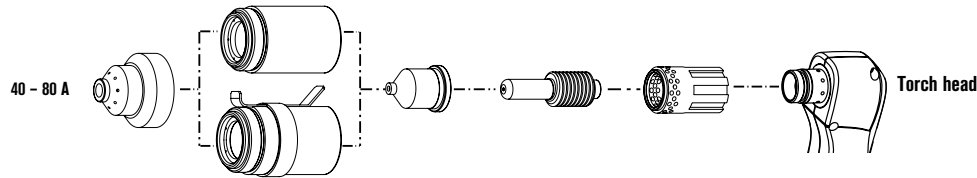
# Hypertherm®

## powermax1250™ G3 SERIES™

### T80M machine torch consumables

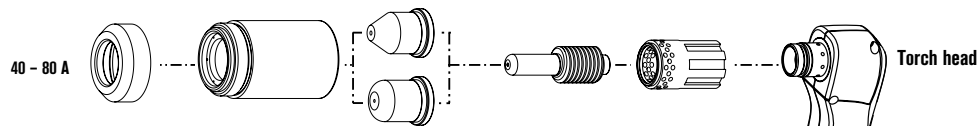


#### Shielded consumables



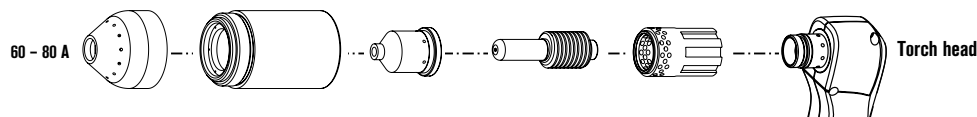
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
Ohmic		220061			

#### Unshielded consumables



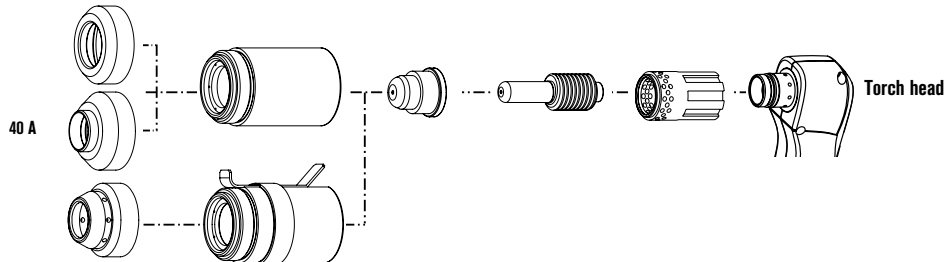
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

\* Consumables available in multiple packaging options, see page 87 for bulk package information.



#### TECHNOLOGIES

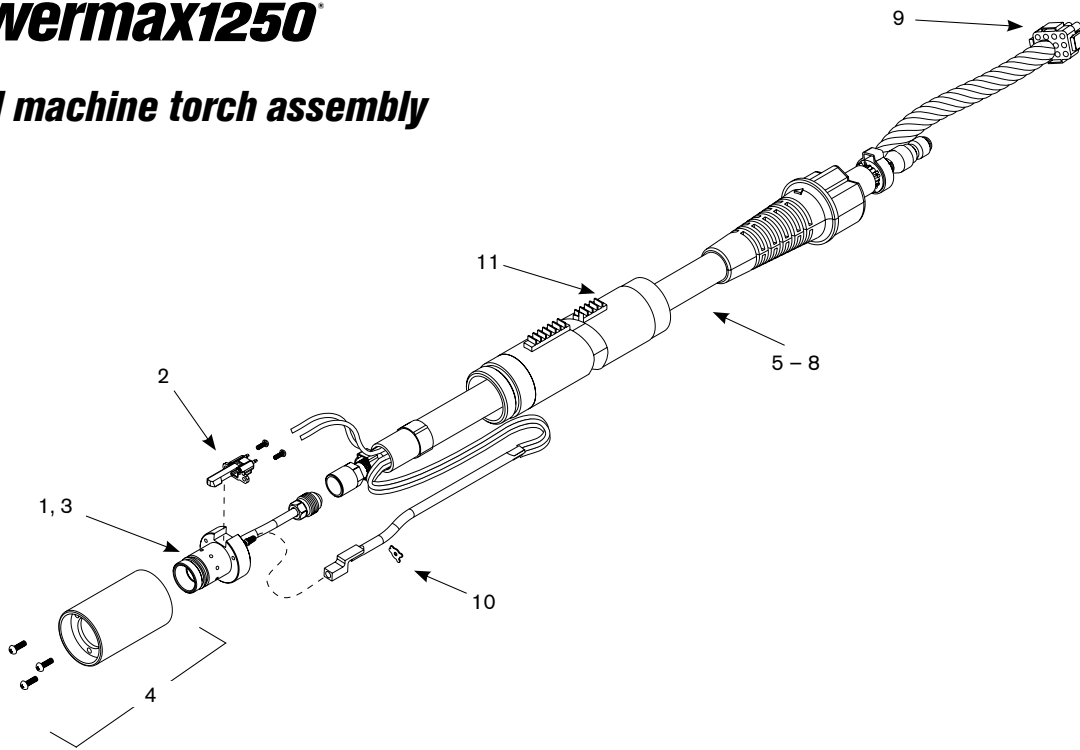
**FineCut®**  
**Coaxial-assist™ jet**  
**Vented shield**  
**Spiral groove**  
**HyLife®**

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1250<sup>®</sup>

## T80M machine torch assembly



### Assembly

Part number	Description
087003*	T80M machine torch assembly with 15' (4.6 m) leads
087004*	T80M machine torch assembly with 25' (7.6 m) leads
087005*	T80M machine torch assembly with 35' (10.7 m) leads
087006*	T80M machine torch assembly with 50' (15.2 m) leads
087048*	T80M machine torch assembly with 75' (22.9 m) leads
059309*	Test torch with 6' (1.8 m) leads
128645	Kit: Torch mounting
1. 128640	Kit: T60M/T80M torch main body replacement (does not include cap sensor)
2. 128639	Kit: Cap sensor switch replacement
075571	Cap-off sensor screws
3. 128521	Kit: T60/T80, T60M/T80M torch head repair (does not include head)
4. 128643	Kit: T60M/T80M mounting sleeve replacement
5. 128634	Kit: T60M/T80M lead replacement, 15' (4.6 m)
6. 128633	Kit: T60M/T80M lead replacement, 25' (7.6 m)
7. 128635	Kit: T60M/T80M lead replacement, 35' (10.7 m)
8. 128641	Kit: T60M/T80M lead replacement, 50' (15.2 m)
9. 128638	Kit: ETR connector repair (regional repair centers only)
10. 027889	Retaining clip
11. 128710	Kit: T60/T80M positioning sleeve replacement
128650	On/Off pendant for machine torch, 25' (7.6 m)
128651	On/Off pendant for machine torch, 50' (15.2 m)
128652	On/Off pendant for machine torch, 75' (22.9 m)
123106	Work lead with clamp, 20' (6.1 m)
128145	Work lead with clamp, 50' (15.2 m)
128718	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables





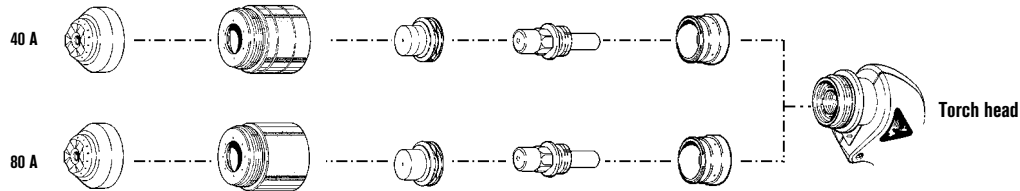
# Hypertherm®

## powermax1100

### PAC135T hand torch consumables

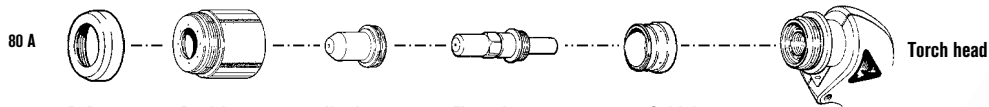


#### Shielded consumables



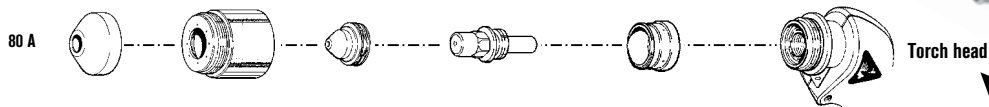
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120475	120520	120515	120473	120474
80 A	120475	120483	120476	120473	120474

#### Extended\* consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
80 A	120519	120483	120518	120517	120474

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
80 A	120510	120483	120509	120473	120474



**For improved performance, retrofit with the RT80 torch [see page 79].**

#### TECHNOLOGIES

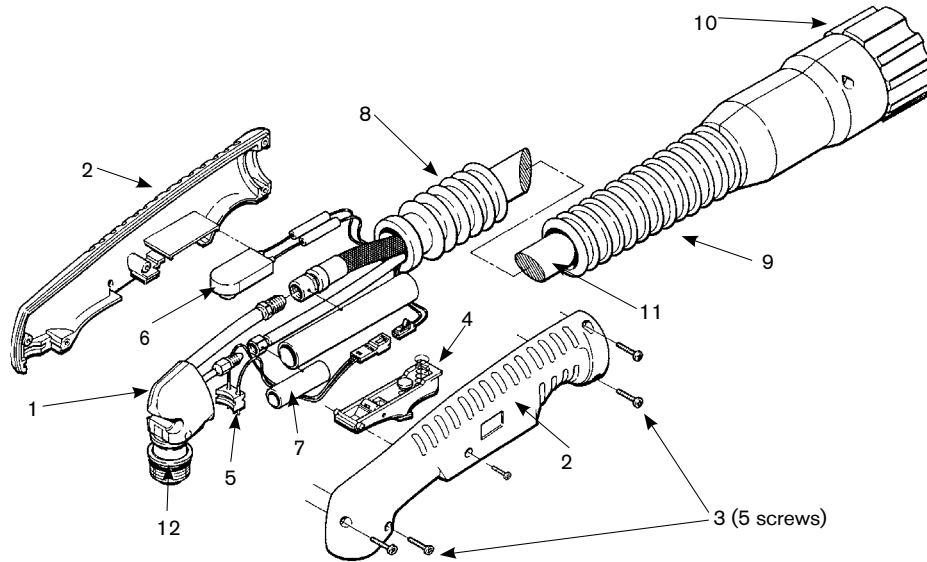
**Vented shield**  
**HyLife®**

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1100

## PAC135T hand torch assembly



### Assembly

Part number	Description
085001*	PAC135T torch assembly, quick disconnect with 25' (7.6 m) leads
085061*	PAC135T torch assembly, quick disconnect with 50' (15.2 m) leads
1. 120477	Torch main body
2. 001615	Handle (includes both halves)
3. 075497	Screws, #6 x 5/8", phillips head, pan head (five required)
4. 128409	Safety trigger upgrade assembly
5. 005212	Switch assembly, cap-on sensor
6. 005247	Push button switch
7. 046072	Heatshrink: 1/2" ID
8. 001616	Torch boot
9. 002277	Quick disconnect boot
10. 128122	Plug assembly: Torch quick disconnect
11. 129559	Torch lead, 25' (7.6 m)
11. 129560	Torch lead, 50' (15.2 m)
12. 026020	O-ring, silicon
128145	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



**For improved performance, retrofit with the RT80 torch (see page 79).**

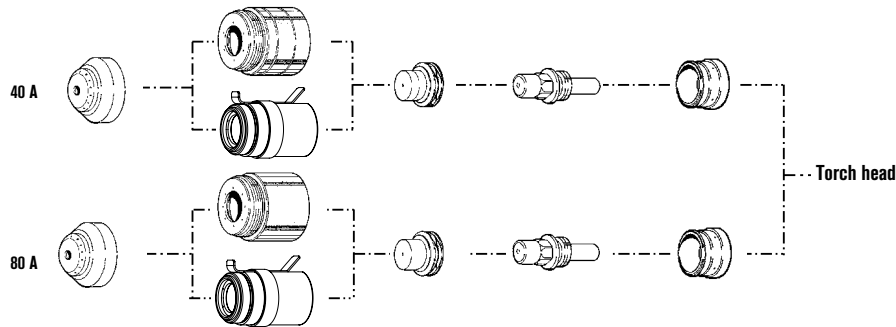
# Hypertherm®

## powermax1100

### PAC135M machine torch consumables

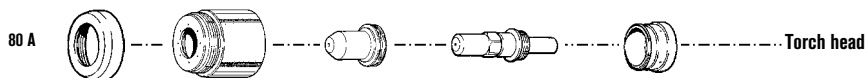


#### Shielded consumables



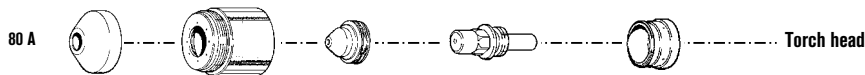
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120516	120520	120515	120473	120474
80 A	120516	120483	120476	120473	120474
Ohmic		120968			

#### Extended consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
80 A	120519	120483	120518	120517	120474

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
80 A	120510	120483	120509	120473	120474



**For improved performance, retrofit with the RT80M torch (see page 81).**

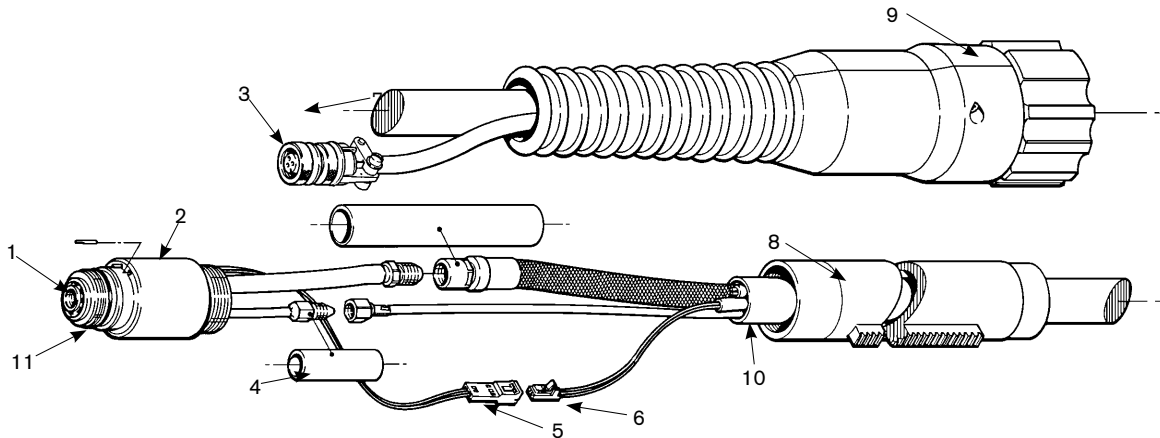
**TECHNOLOGIES**  
**Vented shield**  
**HyLife®**

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# powermax1100

## PAC135M machine torch assembly



### Assembly

Part number	Description
085062*	PAC135M torch assembly with 14' (4.3 m) leads
085063*	PAC135M torch assembly with 25' (7.6 m) leads
085064*	PAC135M torch assembly with 35' (10.7 m) leads
085065*	PAC135M torch assembly with 50' (15.2 m) leads
1. 108040	Contact: Cap-on sensor switch
2. 120508	Torch main body
3. 008268	Plug: 3-socket female
4. 046072	Heatshrink: 1/2" ID
5. 108035	Pin housing: 2-position 26-22 AWG
6. 108034	Receptacle housing: 2-position 26-22 AWG
7. 046056	Tubing: 5/8" ID
8. 020243	Sleeve, torch position
9. 128122	Plug assembly: Torch quick disconnect
10. 129240	Torch lead, 14' (4.3 m)
10. 129241	Torch lead, 25' (7.6 m)
10. 129242	Torch lead, 35' (10.7 m)
10. 129243	Torch lead, 50' (15.2 m)
11. 026020	O-ring, silicon
028714	On/Off pendant, 25' (7.6 m)
128061	On/Off pendant, 50' (15.2 m)
128062	On/Off pendant, 75' (22.9 m)
128145	Work lead with clamp, 50' (15.2 m)

\*Assembly includes consumables



**For improved performance, retrofit with the RT80M torch [see page 81].**

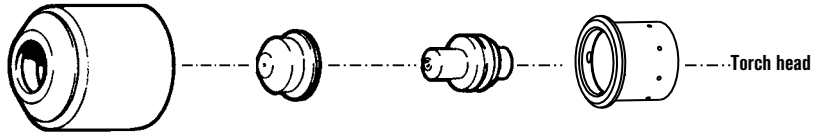
# Hypertherm®

## MAX20

### PAC110 hand torch consumables

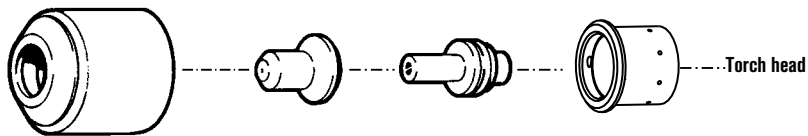


#### Standard consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	020299	020220	220013

#### Extended\* consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	020381	020382	220013



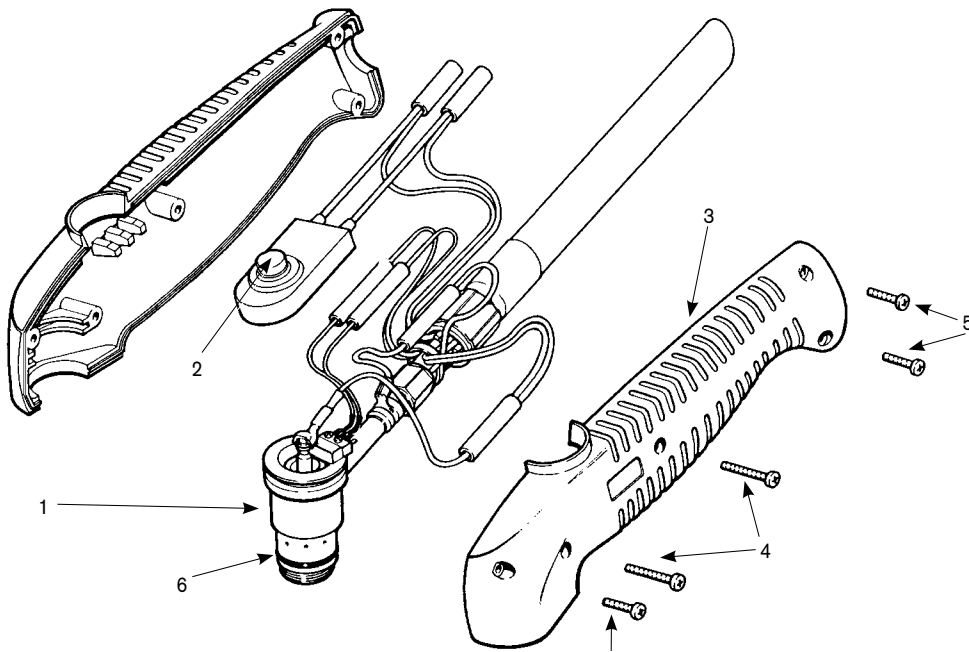
\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX20

## PAC110 hand torch assembly



### Assembly

Part number	Description
070003*	PAC110 torch assembly with 15' (4.6 m) leads
070014*	PAC110 torch assembly with 25' (7.6 m) leads
1. 020588	Torch main body with switch
2. 005094	Switch, torch pushbutton
3. 001192	Handle (includes both halves)
4. 075341	Screw, #4 x 3/4" (two required)
5. 075339	Screw, #4 x 1/2" (three required)
6. 044016	O-ring, Buna – N 90 Duro
029241	Torch leads, 15' (4.6 m)
029257	Torch leads, 25' (7.6 m)
023269	Work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables

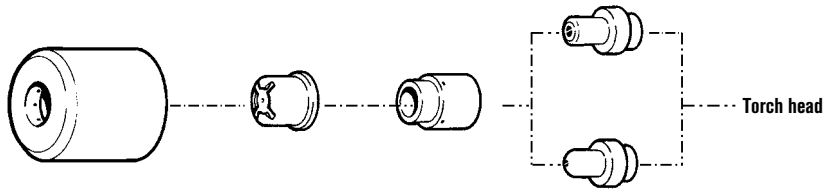


# Hypertherm®

## MAX40/HT40

### PAC140 hand torch consumables

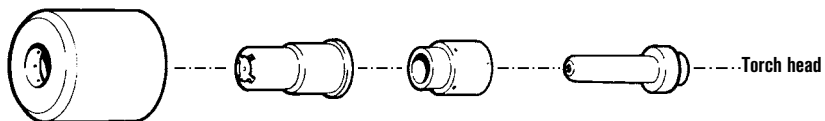
#### Standard consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020115	020101	020103
Nitrogen (N <sub>2</sub> )	020104	020115	020101	020167



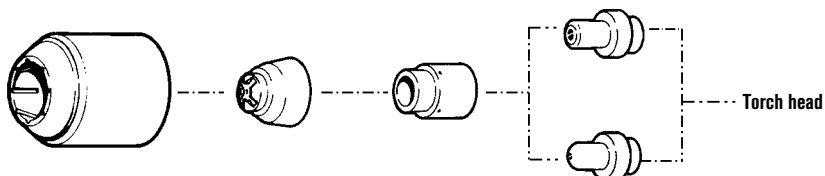
#### Extended consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020466	020101	020467

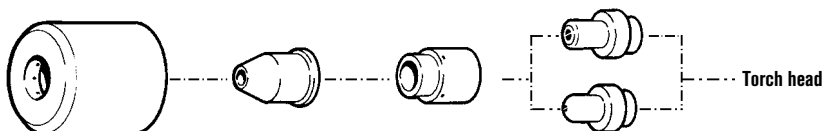


#### Tapered consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020200	020197	020101	020103
Nitrogen (N <sub>2</sub> )	020200	020197	020101	020167

#### Gouging consumables



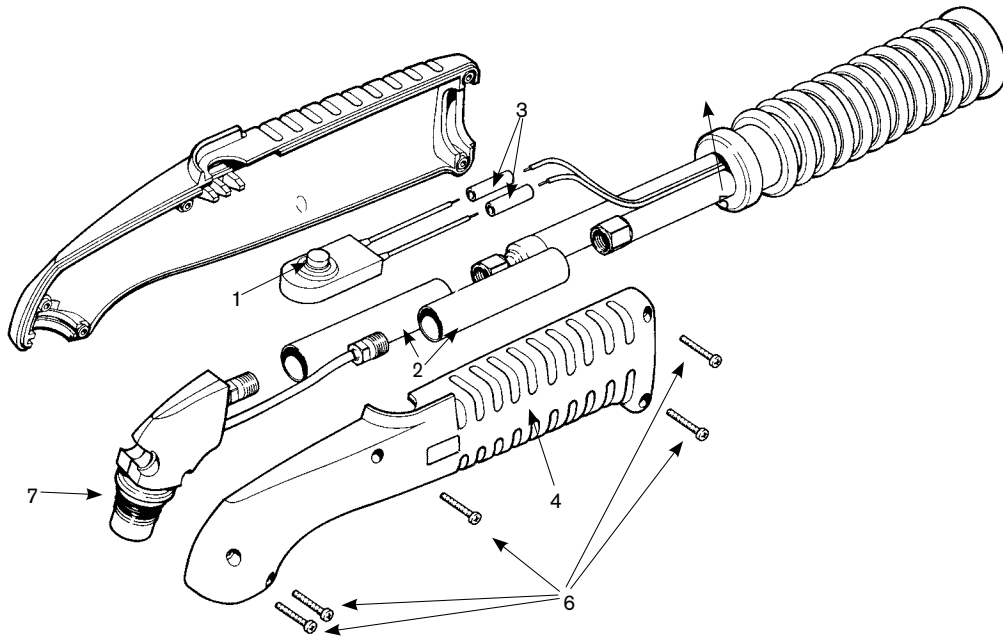
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020340	020101	020103
Nitrogen (N <sub>2</sub> )	020104	020340	020101	020167

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX40/HT40

## PAC140 hand torch assembly



### Assembly

Part number	Description
057112*	Torch assembly with 25' (7.6 m) leads
057113*	Torch assembly with 50' (15.2 m) leads
1. 005094	Switch, torch pushbutton
2. 020536	Lead insulator (two required)
020479	Torch main body
3. 074069	Splice, butt, insulated (two required)
4. 001214	Handle (includes both halves)
5. 001260	Boot
6. 075365	Screw #6 x 3/4" (five required)
7. 044016	O-ring, Buna – N 90 Duro
029129	Torch leads, 25' (7.6 m)
029130	Torch leads, 50' (15.2 m)
023205	Work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables





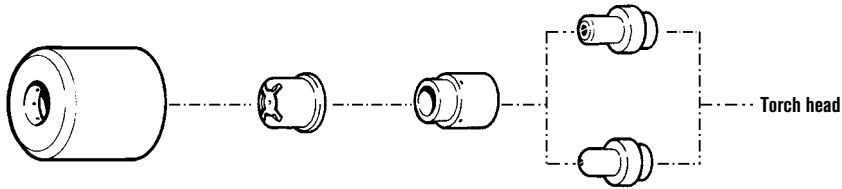
# Hypertherm®

## MAX40/HT40

### MAX40/HT40 machine torch consumables

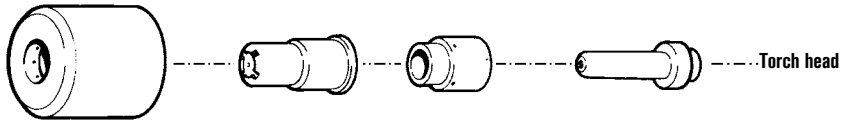


#### Standard consumables



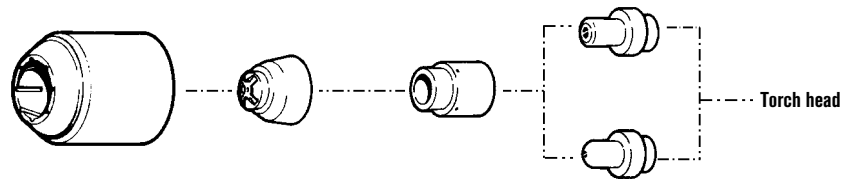
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020115	020101	020103
Nitrogen (N <sub>2</sub> )	020104	020115	020101	020167

#### Extended consumables



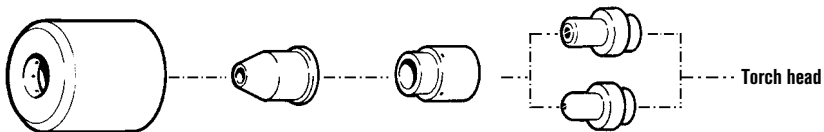
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020466	020101	220467

#### Tapered consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020200	020197	020101	020103
Nitrogen (N <sub>2</sub> )	020200	020197	020101	020167

#### Gouging consumables



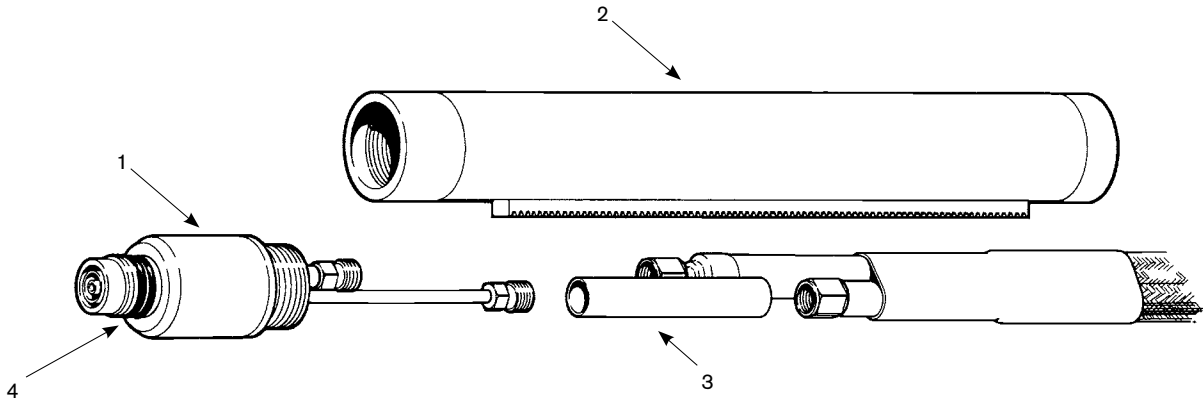
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020340	020101	020103
Nitrogen (N <sub>2</sub> )	020104	020340	020101	020167

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX40/HT40

## MAX40/HT40 machine torch assembly



### Assembly

	Part number	Description
	028287*	Torch assembly
1.	020114	Torch main body
2.	020231	Torch position sleeve, 10-3/4" (273.05 mm) (included in 028287)
2.	020269	Torch position sleeve, 18" (457.2 mm)
3.	004302	Lead insulator
4.	044016	O-ring, Buna – N 90 Duro
	028288	Torch leads, 25' (7.6 m)
	028289	Torch leads, 35' (10.7 m)
	028290	Torch leads, 50' (15.2 m)
	023205	Work lead with clamp, 15' (4.6 m)

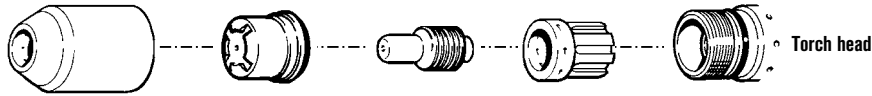
\*Assembly includes consumables

# Hypertherm®

## MAX40cs/42/43

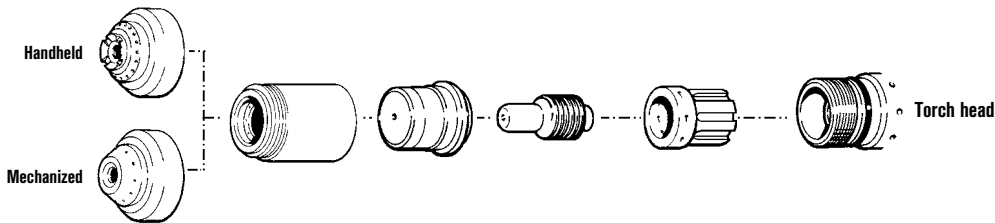
### PAC120/121TS/125T hand and machine torch consumables

#### Standard consumables



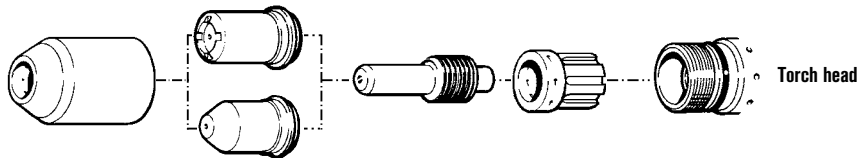
Retaining cap	Nozzle	Electrode	Swirl ring
020930	020350	120573	020361

#### Shielded consumables



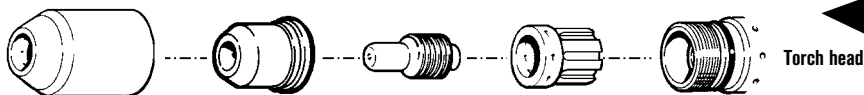
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
<b>Handheld</b>	120601	120600	120438	120573	020361
<b>Mechanized</b>	120602	120600	120438	120573	020361

#### Extended\* consumables



	Retaining cap	Nozzle	Electrode	Swirl ring
<b>Pipe saddle</b>	020930	120023	120574	020361
<b>Extended</b>	020930	020546	120574	020361

#### Gouging consumables



Retaining cap	Nozzle	Electrode	Swirl ring
020930	020539	120573	020361

#### Notes:

The nozzles and swirl rings shown must be used as a set.

A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

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MAX40cs



MAX42



MAX43



**For improved performance, retrofit with the RT60 torch [see page 75].**

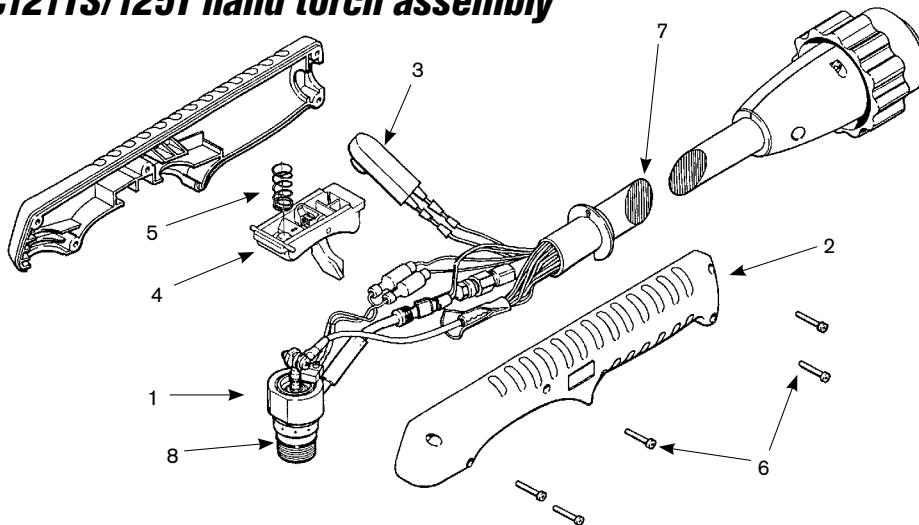
#### TECHNOLOGIES

### Spiral groove

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX40cs/42/43

## PAC121TS/125T hand torch assembly



### Assembly – PAC121TS Torch with quick disconnects

Part number	Description
7. 129099	MAX42/43 torch leads with QD 15' (4.6 m) (N/A on MAX40cs)
7. 129001	MAX42/43 torch leads with QD 25' (7.6 m) (N/A on MAX40cs)
7. 129002	MAX42/43 torch leads with QD 50' (15.2 m) (N/A on MAX40cs)

### Assembly – PAC121TS Torch without quick disconnects

Part number	Description
057172*	MAX40cs hand torch assembly without QD 25' (7.6 m) leads
057173*	MAX40cs hand torch assembly without QD 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
7. 029556	MAX40cs torch leads without QD 25' (7.6 m)
7. 029557	MAX40cs torch leads without QD 50' (15.2 m)
1. 120556	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128284	Switch, torch pushbutton, kit, HNDTCH, PBSW RPR
4. 002244	Safety trigger assembly
5. 027254	Safety trigger spring
6. 075340	Screw, #4 x 5/8" (five required)
8. 044016	O-ring, Buna – N 90 Duro
023452	MAX43 work lead with clamp, 15' (4.6 m)
023415	MAX40cs work lead with clamp, 15' (4.6 m)
023205	MAX42 work lead with clamp, 15' (4.6 m)

### Assembly – PAC125T

Part number	Description
083128*	MAX42/43 safety trigger torch assembly with 25' (7.6 m) leads
083129*	MAX42/43 safety trigger torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 120570	Torch main body with switch
2. 001288	Handle (includes both halves)
3. 128284	Switch, torch pushbutton, kit, HNDTCH, PBSW RPR
4. 002244	Safety trigger assembly
5. 027254	Safety trigger spring
6. 075340	Screw, #4 x 5/8" (five required)
7. 129479	MAX42/43 torch leads with QD 15' (4.6 m) (N/A on MAX40cs)
7. 129352	MAX42/43 torch leads with QD 25' (7.6 m) (N/A on MAX40cs)
7. 129353	MAX42/43 torch leads with QD 50' (15.2 m) (N/A on MAX40cs)
8. 044016	O-ring, Buna – N 90 Duro
023452	MAX43 work lead with clamp, 15' (4.6 m)
023415	MAX40cs work lead with clamp, 15' (4.6 m)
023205	MAX42 work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables

Note:

A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.

Hypertherm, MAX and PAC are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

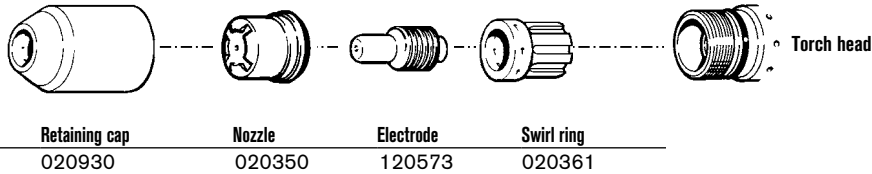


# Hypertherm®

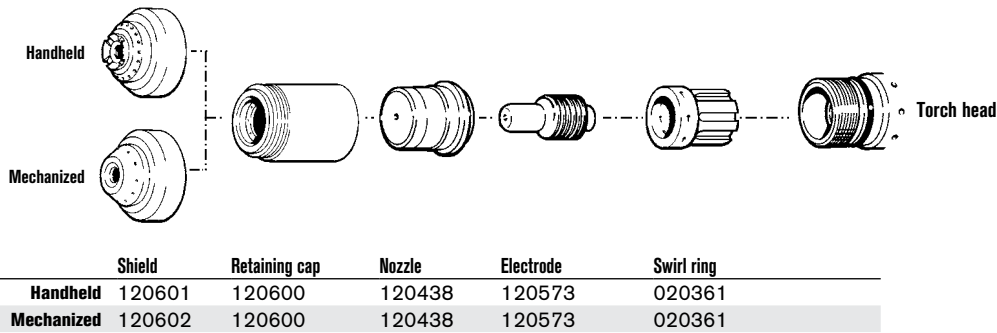
## MAX40cs/42/43

### PAC121P hand and machine torch consumables

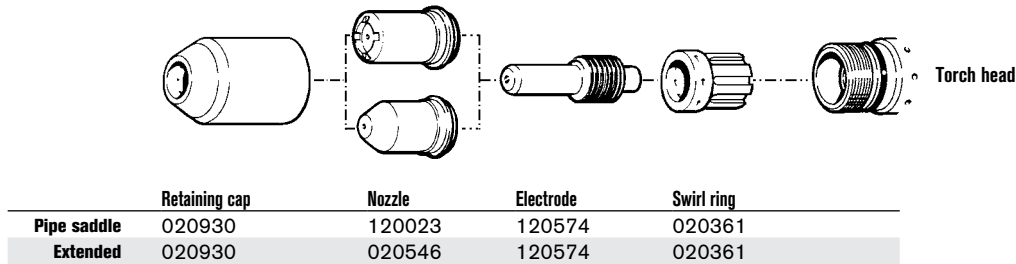
#### Standard consumables



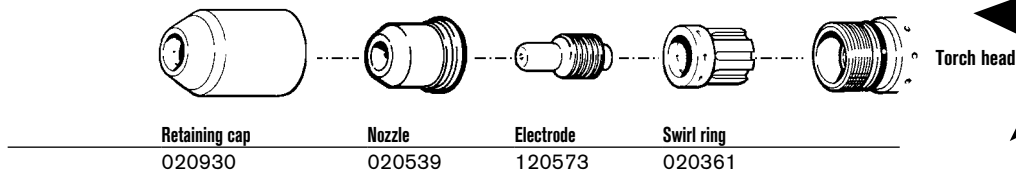
#### Shielded consumables



#### Extended\* consumables



#### Gouging consumables



**Notes:**

The nozzles and swirl rings shown must be used as a set.

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

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**MAX40cs**



**MAX42**



**MAX43**



**For improved performance, retrofit with the RT60 torch [see page 75].**

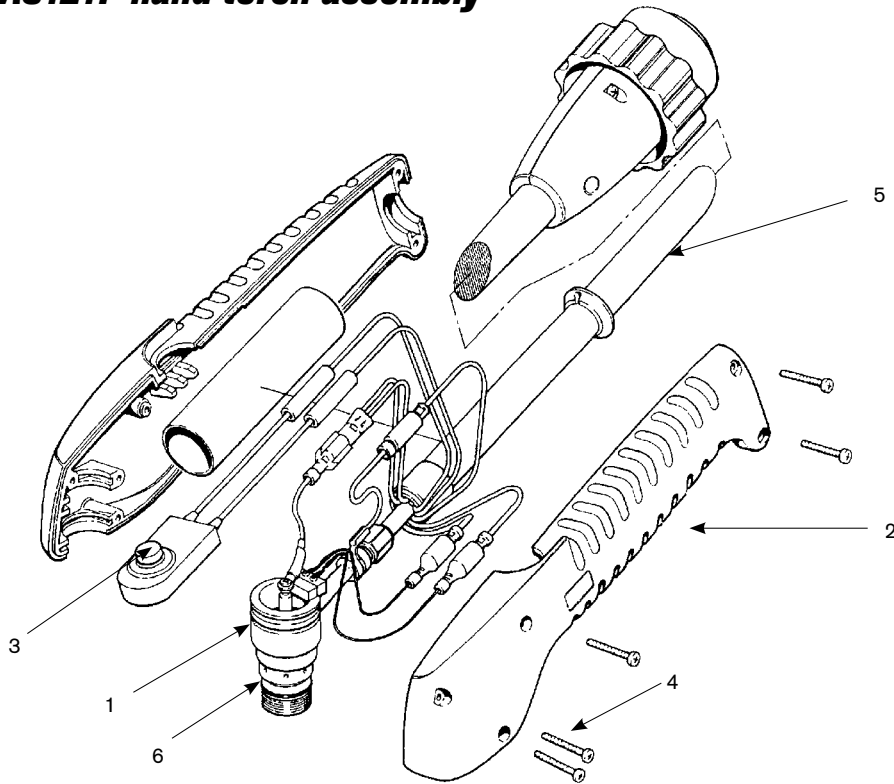
**TECHNOLOGIES**

**Spiral groove**

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX40cs/42/43

## PAC121P hand torch assembly



### Assembly – PAC121P torch with quick disconnects

Part number	Description
5. 029391	MAX42/43 torch leads with QD 25' (7.6 m) (N/A on MAX40cs)
5. 029392	MAX42/43 torch leads with QD 50' (15.2 m) (N/A on MAX40cs)

### Assembly – PAC121P torch without quick disconnects

Part number	Description
057176*	MAX40cs hand torch assembly without QD 25' (7.6 m) leads
057177*	MAX40cs hand torch assembly without QD 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
5. 029483	MAX40cs torch leads without QD 25' (7.6 m)
5. 029484	MAX40cs torch leads without QD 50' (15.2 m)
071069*	MAX42/43 hand torch assembly, 25' (7.6 m) leads
071070*	MAX42/43 hand torch assembly, 50' (15.2 m) leads
1. 120013	Torch main body with switch
2. 001215	Handle (includes both halves)
3. 005094	Switch, torch pushbutton
4. 075365	Screw, #6 x 3/4" (five required)
6. 044016	O-ring, Buna – N 90 Duro
023452	MAX43 work lead with clamp, 15' (4.6 m)
023415	MAX40cs work lead with clamp, 15' (4.6 m)
023205	MAX42 work lead with clamp, 15' (4.6 m)

\*Assembly includes consumables

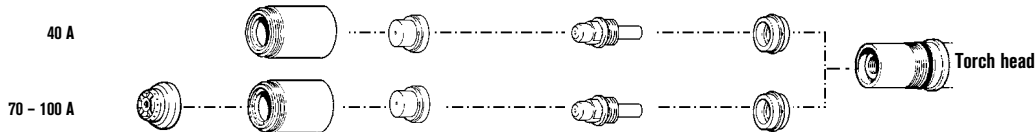


# Hypertherm®

## MAX70/100

### PAC130 hand torch consumables

#### Shielded consumables

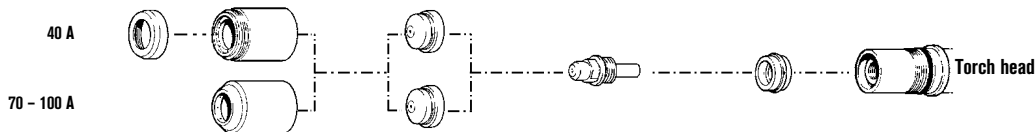


	Shield	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A		020490	020396	120433		020193	020194
70 A	020335	020336	020397	120433		020193	020194
80 A	020335	020336	020397	120433		020193	020194
100 A	020335	020336	020337	120433		020193	020194



MAX70

#### Unshielded\* consumables

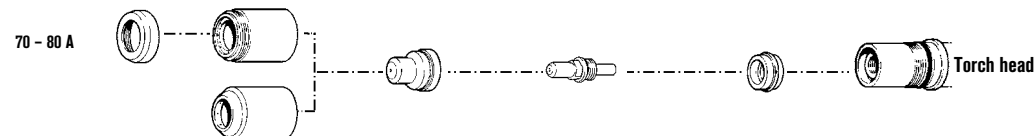


	Deflector / Retaining cap**	or	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A	020333 / 020336		020184	020203	120433		020193	020194
70 A	020333 / 020336		020184	020345	120433		020193	020194
80 A	020333 / 020336		020184	020345	120433		020193	020194
100 A	020333 / 020336		020184	020195	120433		020193	020194



MAX100

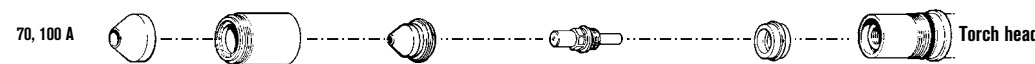
#### Extended consumables



	Deflector / Retaining cap**	or	Retaining cap	Nozzle	Electrode	Swirl ring
70 - 80 A Air	020333 / 020336		020184	020563	120444	020194
70 - 80 A Nitrogen (N <sub>2</sub> )	020333 / 020336		020184	020563	020866	020194



#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
70 A	020712	020336	020878	020744	020194
100 A	020712	020336	120459	020744	020194

#### TECHNOLOGIES

**HyLife®**

**Vented shield**

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

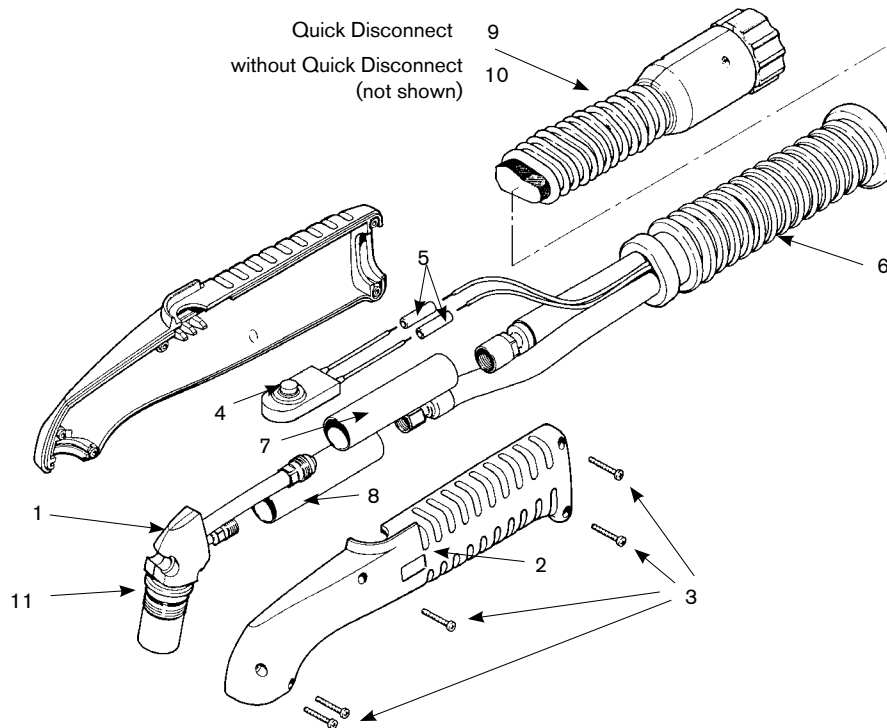
\*\* Non-shielded cutting may use a retaining cap **or** a combination deflector/retaining cap.

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	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX70/100

## PAC130 hand torch assembly



### Assembly – torch leads with quick disconnects

Part number	Description
059093*	Torch assembly with QD 25' (7.6 m)
059094*	Torch assembly with QD 50' (15.2 m)
059095*	Torch assembly with QD 75' (22.9 m)

### Assembly – torch leads without quick disconnects

Part number	Description
059076	Torch assembly without QD 25' (7.6 m)
059077	Torch assembly without QD 50' (15.2 m)
059079	Torch assembly without QD 75' (22.9 m)
10. 029198	Leads, hand torch without QD 25' (7.6 m)
10. 029199	Leads, hand torch without QD 50' (15.2 m)
10. 029229	Leads, hand torch without QD 75' (22.9 m)
1. 020461	Torch main body
2. 001214	Handle (both halves included)
3. 075365	Screw, #6 x 3/4" (five required)
4. 005094	Switch, pushbutton, torch
5. 074069	Splice, butt, insulated (two required)
6. 001217	Boot
7. 024249	Negative lead insulator, 1 1/16 x 3 1/2"
8. 020536	Pilot arc lead insulator, 9/16 x 2 1/2"
9. 029667	Leads, hand torch with QD 25' (7.6 m)
9. 029668	Leads, hand torch with QD 50' (15.2 m)
9. 029669	Leads, hand torch with QD 75' (22.9 m)
11. 026018	O-ring, Silico
023682	MAX70 work lead with clamp, 15' (4.6 m)
023209	MAX100 work lead with clamp, 25' (7.6 m)

\*Assembly includes consumables



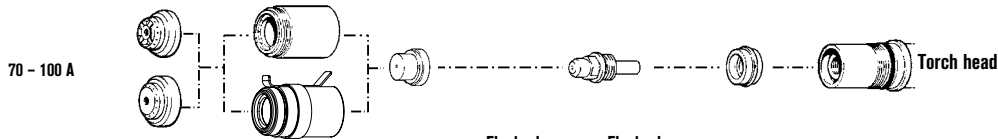
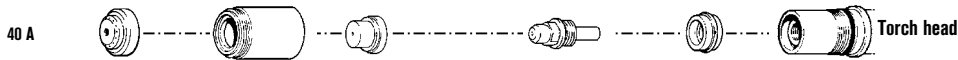


# Hypertherm®

## MAX70/100

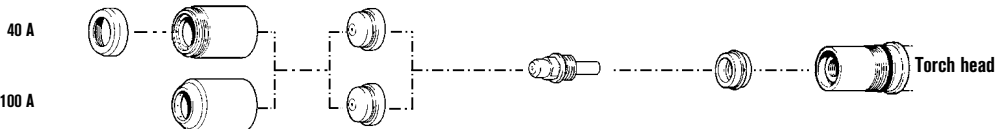
### MAX70/MAX100 machine torch consumables

#### Shielded consumables



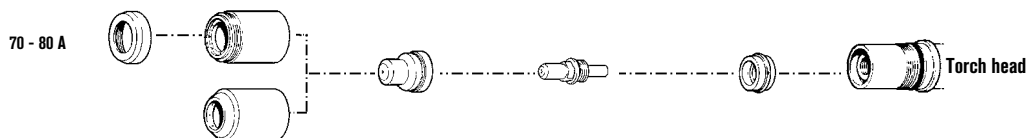
	Shield	Retaining cap	Nozzle	Electrode (Air)	Electrode or (Nitrogen)	Swirl ring
40 A	020492	020490	020396	120433	020193	020194
70 A	020334	020336	020397	120433	020193	020194
80 A	020334	020336	020397	120433	020193	020194
100 A	020334	020336	020337	120433	020193	020194
70 - 100 A Ohmic		120966				

#### Unshielded consumables



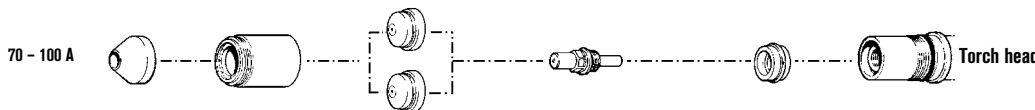
	Deflector / Retaining cap*	Retaining cap	Nozzle	Electrode (Air)	Electrode or (Nitrogen)	Swirl ring
40 A	020333 / 020336	020184	020203	120433	020193	020194
70 A	020333 / 020336	020184	020345	120433	020193	020194
80 A	020333 / 020336	020184	020345	120433	020193	020194
100 A	020333 / 020336	020184	020195	120433	020193	020194

#### Extended consumables



	Deflector / Retaining cap*	Retaining cap	Nozzle	Electrode	Swirl ring
70 - 80 A Air	020333 / 020336	020184	020563	120444	020194
70 - 80 A Nitrogen (N <sub>2</sub> )	020333 / 020336	020184	020563	020866	020194

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
70 A	020712	020336	020878	020744	020194
100 A	020712	020336	120459	020744	020194



MAX70



MAX100

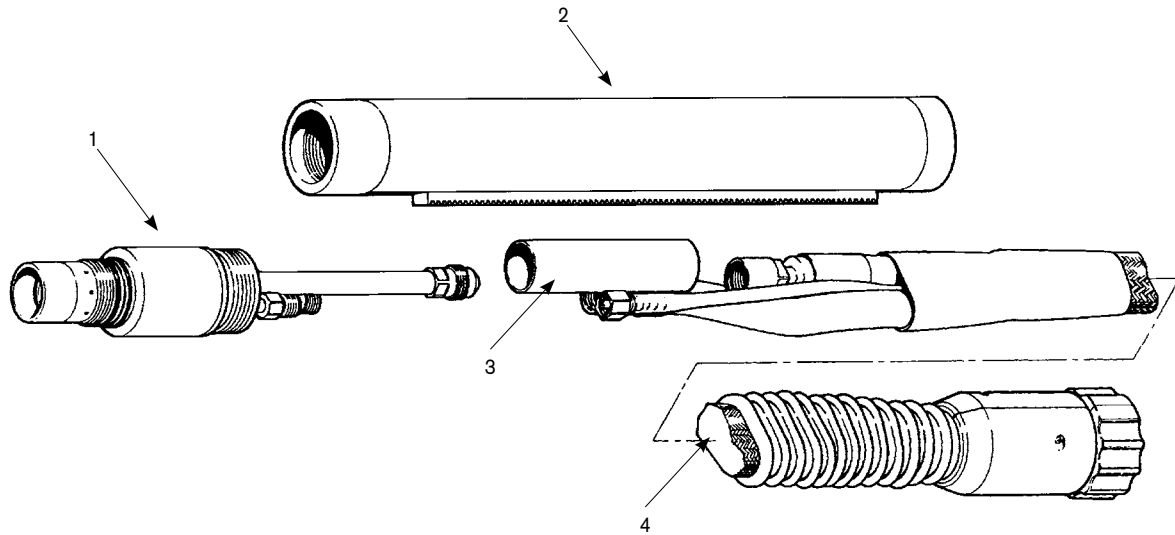
TECHNOLOGIES  
**HyLife®**  
**Vented shield**

\* Non-shielded cutting may use a retaining cap or a combination deflector/retaining cap.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# MAX70/100

## MAX70/MAX100 machine torch assembly



### Assembly – torch leads with quick disconnects

Part number	Description
059096	MAX100 torch assembly with QD 25' (7.6 m)
059238	MAX100 torch assembly with QD with 8.5" (216 mm) torch sleeve 25' (7.6 m)
059167	MAX100 International torch assembly with QD 35' (10.7 m)
059239	MAX100 torch assembly with QD with 8.5" (216 mm) torch sleeve 35' (10.7 m)
059097	MAX100 torch assembly with QD 50' (15.2 m)
059240	MAX100 torch assembly with QD with 8.5" (216 mm) torch sleeve 50' (15.2 m)
059098	MAX100 torch assembly with QD 75' (22.9 m)
4. 028524	Machine torch leads with QD 25' (7.6 m)
4. 028527	Machine torch leads with QD 35' (10.7 m)
4. 028525	Machine torch leads with QD 50' (15.2 m)
4. 028526	Machine torch leads with QD 75' (22.9 m)

### Assembly – torch leads without quick disconnects

Part number	Description
4. 028326	Machine torch leads without QD 25' (7.6 m) (not shown)
4. 028330	Machine torch leads without QD 35' (10.7 m) (not shown)
4. 028327	Machine torch leads without QD 50' (15.2 m) (not shown)
4. 028335	Machine torch leads without QD 75' (22.9 m) (not shown)
1. 020201	Torch main body, 180°
2. 020243	Torch position sleeve, 10 1/4" (260.35 mm)
2. 020270	Torch position sleeve, 18" (457.2 mm)
3. 024173	Pilot arc lead insulator, 9/16" x 2 1/2"
023682	MAX70 work lead with clamp, 15' (4.6 m)
023209	MAX100 work lead with clamp, 25' (7.6 m)

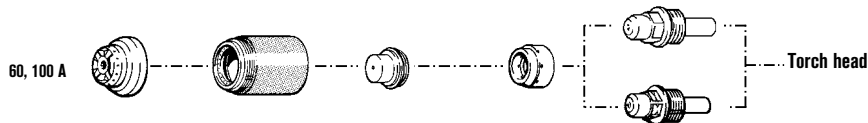
\*Assembly includes consumables

# Hypertherm®

## MAX100D

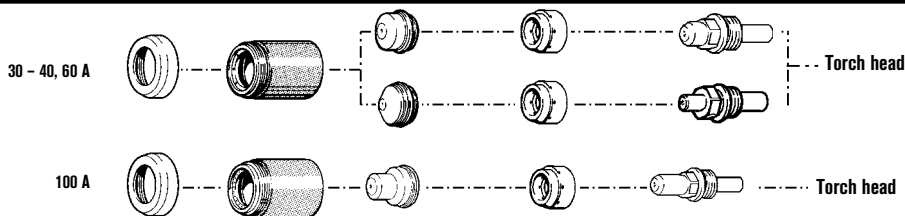
### PAC160/E hand torch consumables

#### Shielded consumables



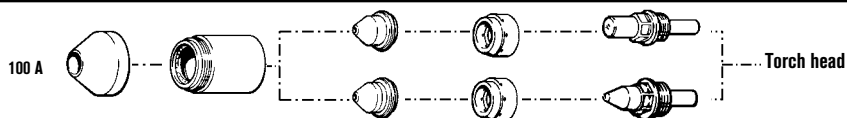
Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Nitrogen (N <sub>2</sub> )	Air	60 A	020335	020756	120336	020706	020193
	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	60 A	020335	020756	120336	020706	020193
	Nitrogen (N <sub>2</sub> )	Air	100 A	020335	020846	020705	020706	020193
	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	100 A	020335	020846	020705	020706	020193
Mild steel/ aluminum	Air	Air	60 A	020335	020756	120336	020706	120433
	Air	Air	100 A	020335	020846	020705	020706	120433
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	100 A	020335	020846	020705	020706	020193
Stainless steel	H35-Nitrogen (N <sub>2</sub> )	Nitrogen (N <sub>2</sub> )	100 A	020335	020846	020705	020706	020193
Aluminum	H35	Air	100 A	020335	020846	020705	020706	020193

#### Unshielded\*/Extended consumables



Metal	Plasma gas	Shield gas	Amps	Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ aluminum	Air	Air	60 A	020333	020756	020922	020706	120433
	Air	Air	100 A	020333	020846	020754	020706	120444
Stainless steel	Air	Air	30 - 40 A	020333	020756	020921	020950	020951
	Nitrogen (N <sub>2</sub> )	Air	60 A	020333	020756	020922	020706	020193
	Nitrogen (N <sub>2</sub> )	Air	100 A	020333	020846	020754	020706	020887

#### Gouging consumables



Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/stainless/ aluminum	H35	Air	100 A	020712	020699	020704	020750	020703
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	100 A	020712	020699	020704	020750	020703
Mild steel	Air	Air	100 A	020712	020699	020745	020750	020744



PAC160 hand torch



PAC160E gouging torch

#### TECHNOLOGIES

#### Vented shield

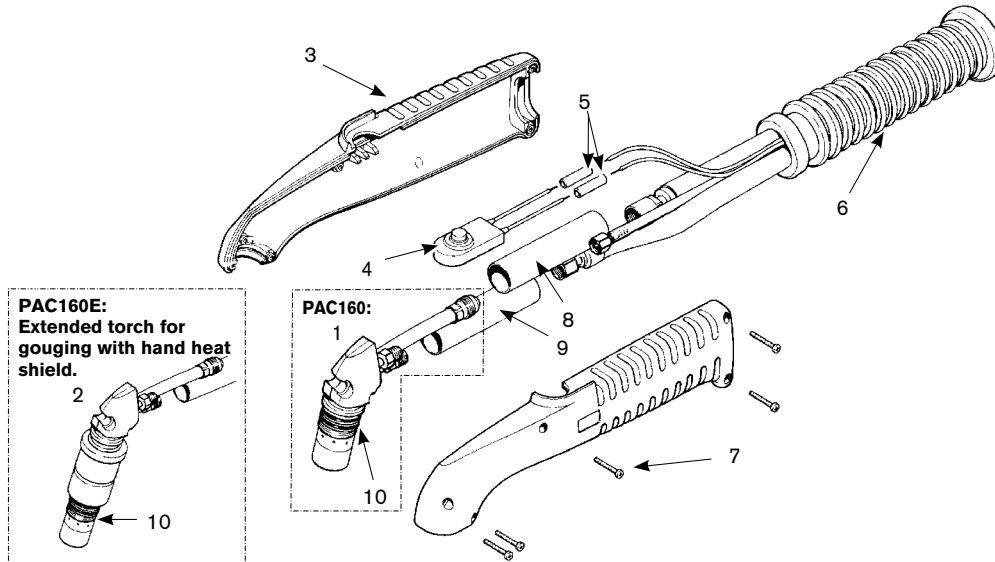
\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

Shield	Retaining cap	Nozzle	Electrode	Swirl ring
1	1	5	5	1

Standard package quantity

# MAX100D

## PAC160/E hand and gouging torch assemblies



### Assembly

Part number	Description
020711	Hand heat shield (shown at left) – for PAC160E gouging torch only
1. 020761	PAC160 torch main body
2. 020693	PAC160E torch main body
3. 001214	Handle, MAX100D, hand torch (both halves included)
4. 005094	Switch, pushbutton, torch
5. 074069	Splice, butt, insulated (two required)
6. 001217	Boot, MAX100D torch
7. 075365	Screw, #6 x 3/4" (five required)
8. 020468	Negative lead insulator, 1 1/16 x 31/2"
9. 020536	Pilot arc lead insulator, 9/16 x 21/2"
10. 058019	O-ring: Viton .801 x .071 (two required)
059124*	PAC160 hand torch assembly with 25' (7.6 m) leads
059125*	PAC160 hand torch assembly with 50' (15.2 m) leads
059126*	PAC160 hand torch assembly with 75' (22.9 m) leads
059112*	PAC160E hand torch assembly with 25' (7.6 m) leads
059113*	PAC160E hand torch assembly with 50' (15.2 m) leads
059114*	PAC160E hand torch assembly with 75' (22.9 m) leads
029730	MAX100D hand torch with 25' (7.6 m) leads
029731	MAX100D hand torch with 50' (15.2 m) leads
029732	MAX100D hand torch with 75' (22.9 m) leads
028558	MAX100D quick disconnect assembly
023209	Work lead with clamp, 25' (7.6 m)

\*Assembly includes consumables



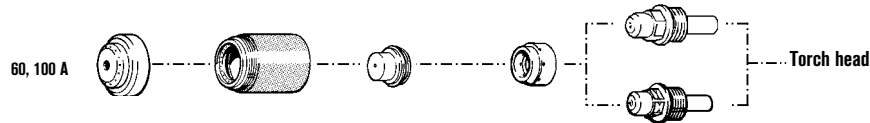
# Hypertherm®

## MAX100D

### MAX100D machine torch consumables

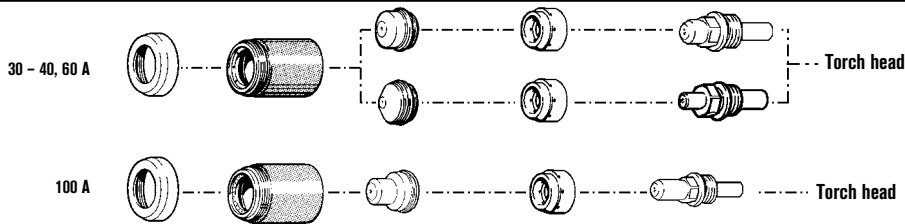


#### Shielded consumables



Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Nitrogen (N <sub>2</sub> )	Air	60 A	020334	020756	120336	020706	020193
	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	60 A	020334	020756	120336	020706	020193
	Nitrogen (N <sub>2</sub> )	Air	100 A	020334	020846	020705	020706	020193
	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	100 A	020334	020846	020705	020706	020193
Mild steel/ aluminum	Air	Air	60 A	020334	020756	120336	020706	120433
	Air	Air	100 A	020334	020846	020705	020706	120433
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	100 A	020334	020846	020705	020706	020193
Stainless steel	H35-Nitrogen (N <sub>2</sub> )	Nitrogen (N <sub>2</sub> )	100 A	020334	020846	020705	020706	020193
Aluminum	H35	Air	100 A	020334	020846	020705	020706	020193

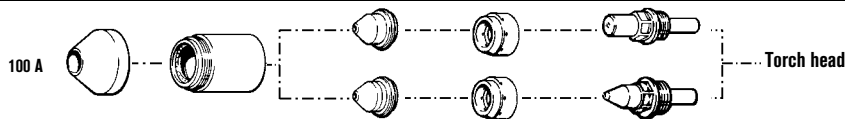
#### Unshielded/Extended consumables



Metal	Plasma gas	Shield gas	Amps	Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ aluminum	Air	Air	60 A	020333	020756	020922	020706	120433
	Air	Air	100 A	020333	020846	020754	020706	120444
Stainless steel	Air	Air	30 - 40 A	020333	020756	020921	020950	020951
	Nitrogen (N <sub>2</sub> )	Air	60 A	020333	020756	020922	020706	020193
	Nitrogen (N <sub>2</sub> )	Air	100 A	020333	020846	020754	020706	020887



#### Gouging consumables

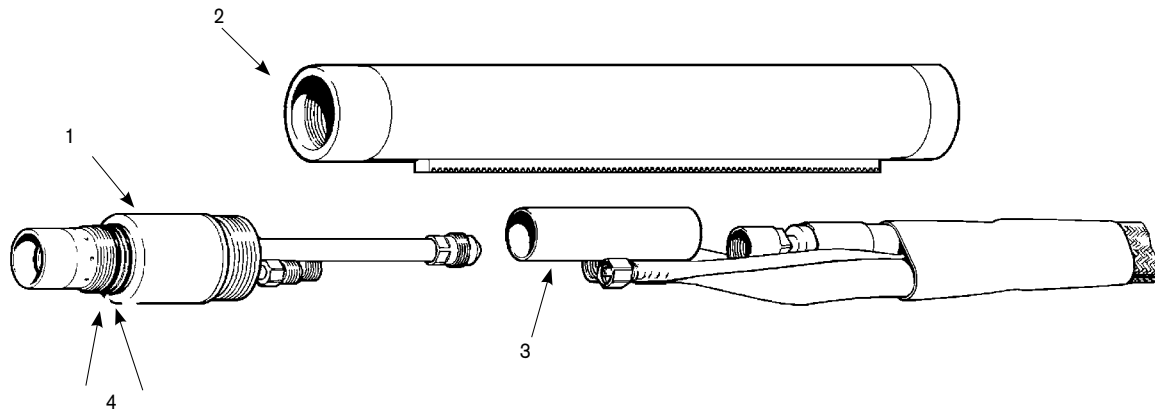


Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/stainless/ aluminum	H35	Air	100 A	020712	020699	020704	020750	020703
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	100 A	020712	020699	020704	020750	020703
Mild steel	Air	Air	100 A	020712	020699	020745	020750	020744

**TECHNOLOGIES**  
**Vented shield**

# MAX100D

## MAX100D machine torch assembly



### Assembly

Part number	Description
028596*	MAX100D machine torch assembly
1. 020713	MAX100D machine torch main body
2. 020243	MAX100D torch positioning sleeve
3. 020468	Negative lead insulator, 1 1/16 x 3 1/2"
4. 058019	O-ring: Viton .801 x .071 (two required)
059115*	MAX100D machine torch assembly with 25' (7.6 m) leads
059116*	MAX100D machine torch assembly with 50' (15.2 m) leads
059117*	MAX100D machine torch assembly with 75' (22.9 m) leads
028555	MAX100D machine torch leads, 25' (7.6 m)
028556	MAX100D machine torch leads, 50' (15.2 m)
028557	MAX100D machine torch leads, 75' (22.9 m)
028910	MAX100D quick disconnect assembly
002190	Boot, 80/100 amp quick disconnect
023209	Work lead with clamp, 25' (7.6 m)

\*Assembly includes consumables



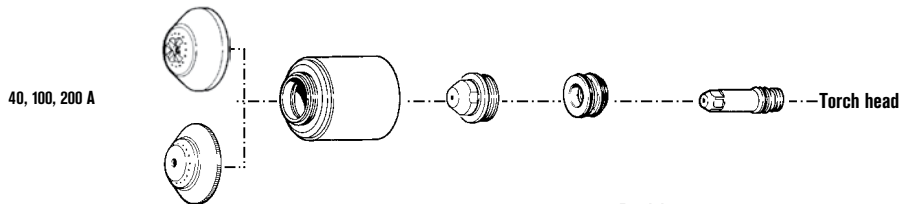
# Hypertherm®

## MAX200

### PAC200 T/E hand torch consumables



#### Shielded consumables

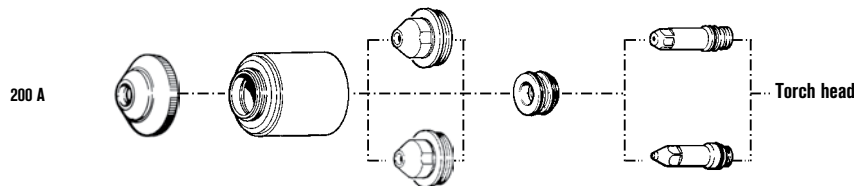


Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Air	Air	40 A	020917	020915	020689	020613	220021
	Air	Air	100 A	020919	020915	020611	020607	120547
	Air	Air	200 A	020918	020915	020608	020607	220021
Stainless steel/ aluminum	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	200 A	020918	020915	020608	020607	020415
	H35	Nitrogen (N <sub>2</sub> )	100 A	020919	020915	020611	020607	020415
Mild steel	Nitrogen (N <sub>2</sub> )	Air	200 A	020918	020915	020608	020607	020415
	Oxygen (O <sub>2</sub> )	Air	100 A	020919	020915	020616	020617	220021
Stainless steel	Oxygen (O <sub>2</sub> )	Air	200 A	020918	020915	020605	020604	220021
	H35	Nitrogen (N <sub>2</sub> )	200 A	020920	020915	020608	020607	020415
Aluminum	H35	Nitrogen (N <sub>2</sub> )	200 A	020918	020915	020608	020607	020415



PAC200T hand torch

#### Gouging consumables



Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel	Air	Air	200 A	020891	020882	020615	020607	220021
	H35	Air	200 A	020891	020882	020934	020607	020933
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	200 A	020891	020882	020934	020607	020933



PAC200E gouging torch

#### TECHNOLOGIES

**Vented shield**  
**Chambered swirl ring**

\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

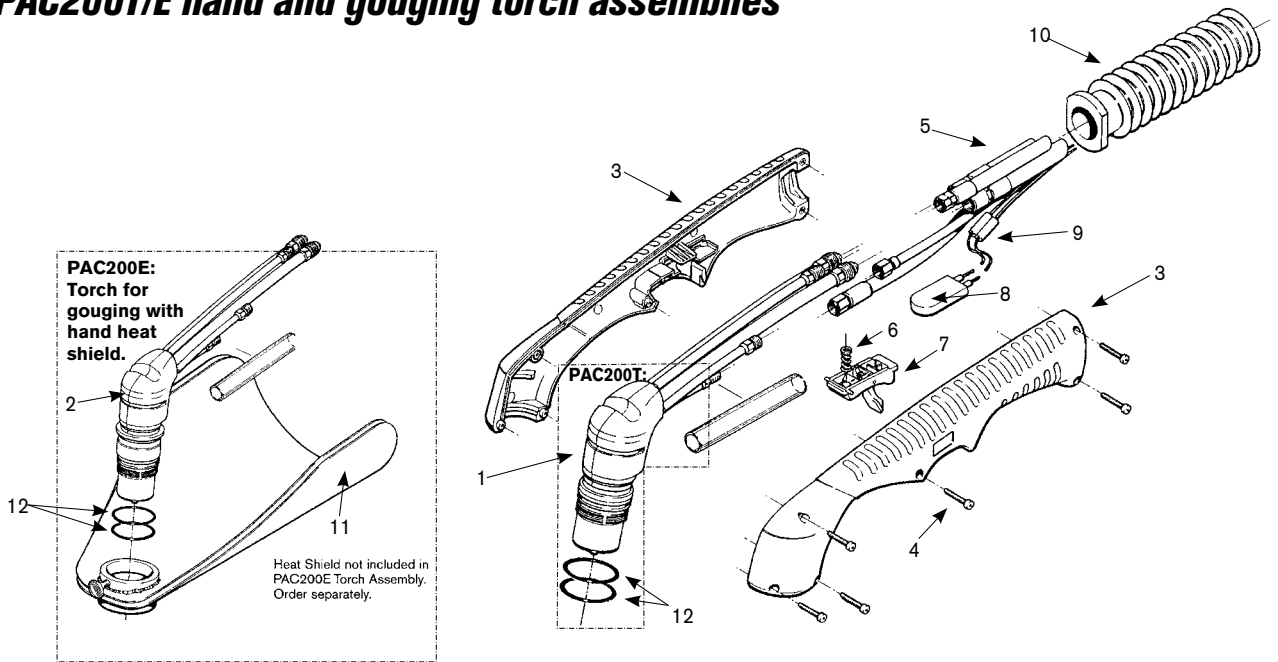
Hypertherm, MAX and PAC are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

Shield	Retaining cap	Nozzle	Electrode	Swirl ring
1	1	5	5	1

Standard package quantity

# MAX200

## PAC200T/E hand and gouging torch assemblies



### Assembly

Part number	Description
073189*	PAC200T 90° hand cutting torch assembly with 25' (7.6 m) leads
073190*	PAC200T 90° hand cutting torch assembly without leads
073111*	PAC200E 65° hand gouging torch assembly with 25' (7.6 m) leads
073188*	PAC200E gouging torch assembly without leads
029865	Torch-to-power supply with 25' (7.6 m) leads
028715	Torch-to-power supply with 50' (15.2 m) leads
028716	Torch-to-power supply with 75' (22.9 m) leads
028717	Torch-to-power supply with 100' (30.5 m) leads
028718	Torch-to-power supply with 125' (38.1 m) leads
028719	Torch-to-power supply with 150' (45.8 m) leads
1. 120045	Torch main body, PAC200T hand torch 90°
2. 020908	Torch main body, PAC200E gouging torch 65°
3. 001412	Handle, PAC200T 90° (both halves included)
001440	Handle, PAC200E 65° (both halves included) (not shown)
4. 075365	Screw, #6 x 3/4", phillips head, pan (six required)
5. 046065	Insul. tube, 9/16 ID x.03 WL, Teflon (included with lead sets)
6. 027254	Trigger spring, PAC200T/E
7. 002244	Safety trigger, PAC200T/E
8. 005094	Push button switch (included with lead sets listed above)
9. 074069	Splice (two required)
10. 001217	Boot
11. 020881	Hand heat shield, PAC200E gouging torch
12. 044027	O-ring, Buna (two required)
027347	Water tube removal tool
023345	Work lead with clamp 25' (7.6 m)
023420	Work lead with clamp 50' (15.2 m)

\*Assembly includes consumables





# Hypertherm®

## MAX200

### MAX200 machine torch consumables



#### Cutting consumables

40, 100, 200 A

Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	200 A	020424	120837	020608	020607	020415
Mild steel/ stainless	Air	Air	200 A	020424	120837	020608	020607	220021
Mild steel/ aluminum	Air	Air	40 A	020688	020423	020689	020613	220021
	Air	Air	100 A	020448	120837	020611	020607	120547
Stainless steel/ aluminum	H35	Nitrogen (N <sub>2</sub> )	100 A	020448	120837	020611	020607	020415
	H35	Nitrogen (N <sub>2</sub> )	200 A	020602	120837	020608	020607	020415
Mild steel	Oxygen (O <sub>2</sub> )	Air	100 A	020448	120837	020616	020617	220021
	Oxygen (O <sub>2</sub> )	Air	200 A	020424	120837	020605	020604	220021†
Stainless steel	Nitrogen (N <sub>2</sub> )	Air	200 A	020424	120837	020608	020607	020415
	Air	Air	200 A	020448	120837	020608	020607	220021
Aluminum	Nitrogen (N <sub>2</sub> )	Air	200 A	020424	120837	020611	020607	020415

#### Cutting with under water or water muffler\* consumables

100, 200 A

Metal	Plasma gas	Shield gas	Amps	Under water shield	Water muffler shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Air	Air	100 A	020448	020618	020423	020611	020607	120547
	Air	Air	200 A	020424	020566	020423	020608	020607	220021
Stainless steel/ aluminum	Nitrogen (N <sub>2</sub> )	Air	200 A	020424	020566	020423	020608	020607	020415
	Nitrogen (N <sub>2</sub> )	Carbon dioxide (CO <sub>2</sub> )	200 A	020424	020566	020423	020608	020607	020415
Mild steel	Oxygen (O <sub>2</sub> )	Air	100 A	020448	020618	020423	020616	020617	220021
	Oxygen (O <sub>2</sub> )	Air	200 A	020424	020566	020423	020605	020604	220021

#### Gouging consumables

200 A

Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel	Air	Air	200 A	020485	020423	020615	020607	220021
Stainless steel	H35	Nitrogen (N <sub>2</sub> )	200 A	020485	020423	020615	020607	020415
Aluminum	H35	Nitrogen (N <sub>2</sub> )	200 A	020485	020423	020615	020607	220021

#### Bevel consumables

Bevel cutting

Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode	Water tube
Mild steel	Oxygen (O <sub>2</sub> )	Air	200 A	120260	020423	120259	120833	120258	120257

128380 – Standard body – 2" sleeve

120356 – Stainless steel body

**TECHNOLOGIES**  
**HyLife®**  
**SilverPlus®**  
**Vented shield**  
**Chambered swirl ring**

\* Water muffler cannot be used with 2" 120356 stainless steel torch or with ohmic height sensing.  
 † 220083 SilverPlus optional

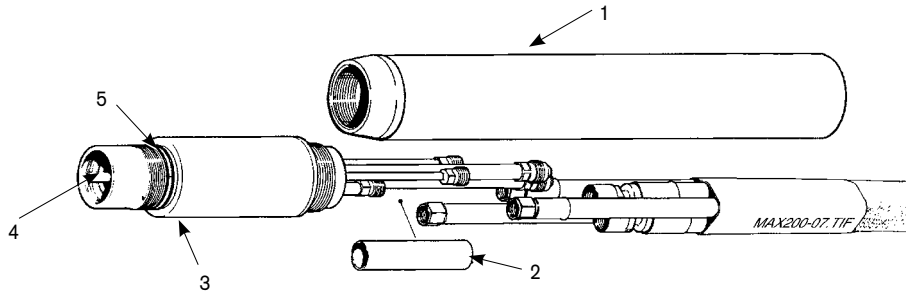
Hypertherm, MAX, HyLife and SilverPlus are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

Shield	Retaining cap	Nozzle	Electrode	Swirl ring
1	1	5	5	1

Standard package quantity

# MAX200

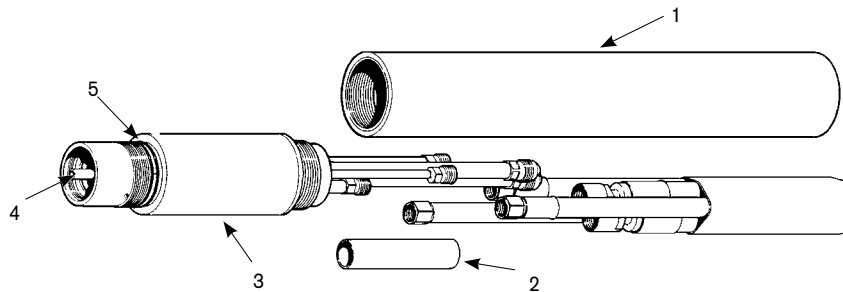
## MAX200 machine torch assemblies



### Assembly

Standard body 2"		Optional body 1-3/4"	Description
Part number	Part number		
128380*	128364		MAX200 machine torch assembly
028383*	028383		Torch leads, 25' (7.6 m)
028384*	028384		Torch leads, 50' (15.2 m)
1.	120894	020431	Torch mounting sleeve
2.	020536	020536	Lead insulator, 9/16 x 2.5"
3.	120584	120584	MAX200/HT2000 machine torch main body
4.	020963	020963	Water tube, electrode cooling, standard
4.	120257	120257	Water tube, electrode cooling, extended
5.	044027	044027	O-ring: Buna 70 Duro 1.301 x .070
	104119	104119	Consumables removal tool
	027347	027347	Water tube removal tool
	023345	023345	Work lead with clamp 25' (7.6 m)
	023420	023420	Work lead with clamp 50' (15.2 m)

\*Assembly includes consumables



### Assembly

Stainless steel body		Description
Part number		
128365*		MAX200 machine torch assembly
120356		MAX200/HT2000 machine torch main body
028384*		Torch leads, 50' (15.2 m)
1.	020041	Torch mounting sleeve
2.	020536	Lead insulator, 9/16 x 2.5"
3.	028383*	Torch leads, 25' (7.6 m)
4.	020963	Water tube, electrode cooling, standard
4.	120257	Water tube, electrode cooling, extended
5.	044027	O-ring: Buna 70 Duro 1.301 x .070
	104119	Consumables removal tool
	027347	Water tube removal tool
	023345	Work lead with clamp 25' (7.6 m)
	023420	Work lead with clamp 50' (15.2 m)

\*Assembly includes consumables

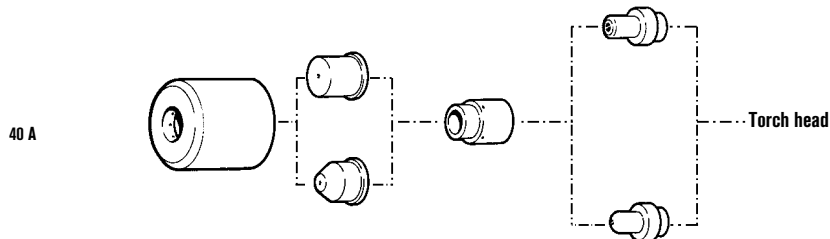


# Hypertherm®

## HT40/HT40C

### HT40/HT40C machine torch consumables

#### Standard consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
<b>40 A Air</b>	020104	020102	020101	020103
<b>40 A Nitrogen (N<sub>2</sub>)</b>	020104	020102	020101	020167
<b>Pipe saddle Air</b>	020104	020131	020101	020103
<b>Pipe saddle Nitrogen (N<sub>2</sub>)</b>	020104	020131	020101	020167



HT40C

#### TECHNOLOGIES

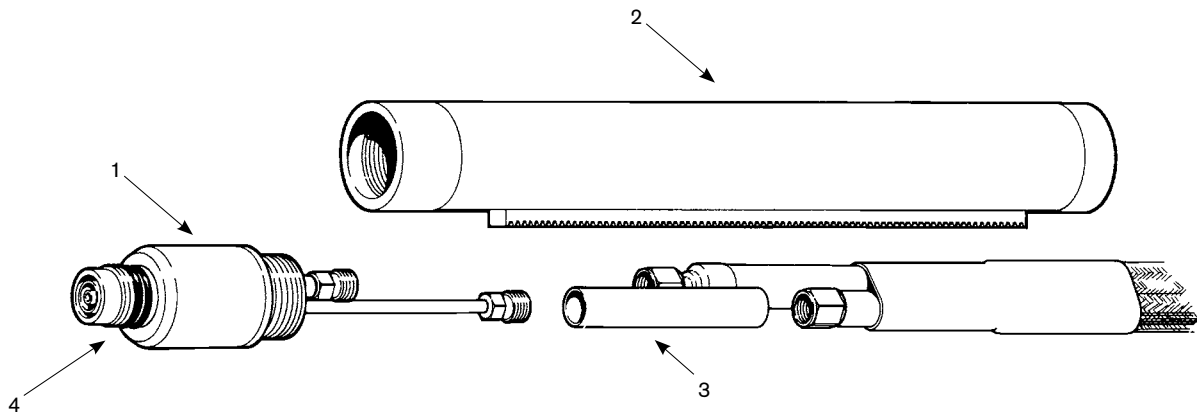
**HyLife®**

Hypertherm, HT and HyLife are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# HT40/HT40C

## Machine torch assembly



### Assembly

	Part number	Description
	028287*	HT40 machine torch assembly
1.	020114	Torch main body
2.	020231	Torch position sleeve, 10-3/4" (273.05 mm) (included in 028287)
2.	020269	Torch position sleeve, 18" (457.2 mm)
3.	004302	Lead insulator
4.	044016	O-ring, Buna – N 90 Duro
	028288	Torch leads, 25' (7.6 m)
	028289	Torch leads, 35' (10.7 m)
	028290	Torch leads, 50' (15.2 m)
	023261	Work lead without clamp 25' (7.6 m)

\*Assembly includes consumables

# Hypertherm®

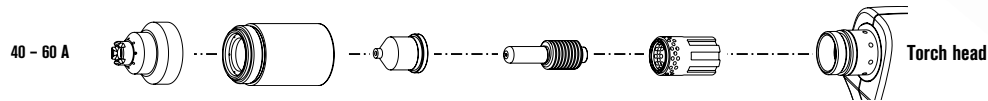
## RT60 Retrofit torch

For Powermax600/800/900, MAX42/43

### RT60 hand torch consumables

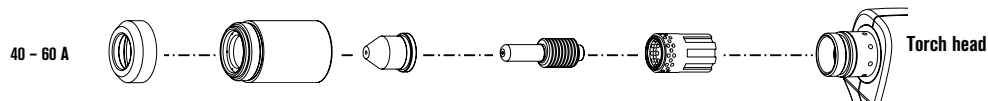


#### Shielded consumables



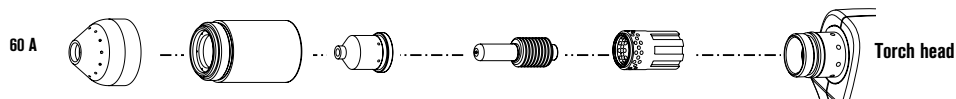
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929	120928	120932*	120926*	120925
60 A	120929	120928	120931*	120926*	120925

#### Unshielded\*\* consumables



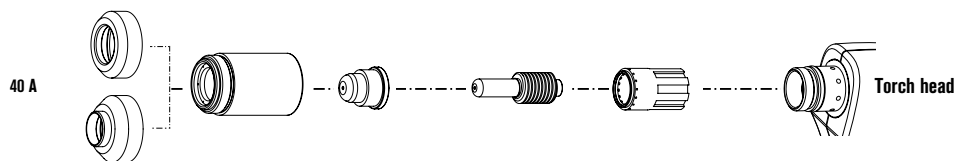
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE***	220325	120928	220329	120926*	220327

#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Spiral groove**  
**HyLife®**  
**Vented shield**

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

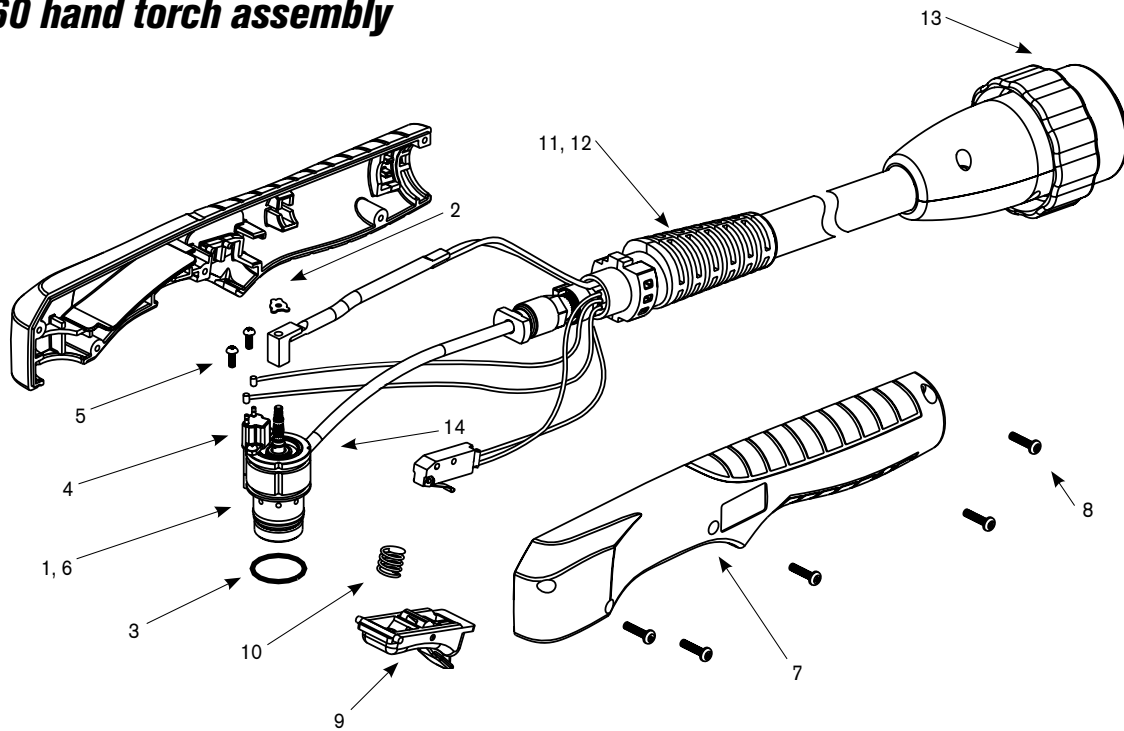
\*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# RT60

## RT60 hand torch assembly



### Assembly

Part number	Description
083215*	RT60 hand torch assembly with 25' (7.6 m) leads
083216*	RT60 hand torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 128564	Kit: torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: cap-off sensor replacement
5. 075571	Cap-off sensor screws
6. 128521	Kit: torch head repair (does not include head, includes screws)
7. 128644	Kit: handle
8. 075586	Handle screws
9. 002244	Safety trigger
10. 027254	Spring
11. 128922	Torch lead replacement, 25' (7.6 m)
12. 128923	Torch lead replacement, 50' (15.2 m)
13. 128926	Kit: RT60/RT60M quick disconnect repair
14. 128642	Kit: start switch replacement

\*Assembly includes consumables



# Hypertherm®

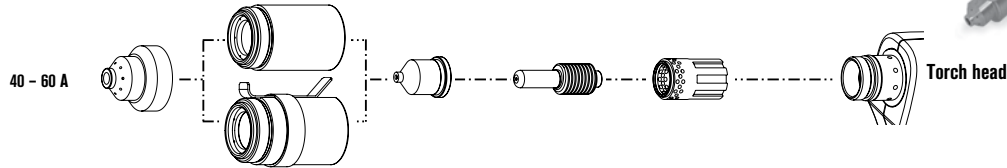
## RT60M Retrofit torch

For Powermax600/800/900, MAX42/43

### RT60M machine torch consumables

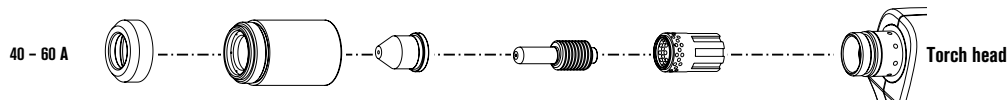


#### Shielded consumables



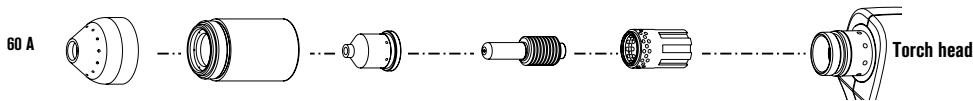
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932	120926*	120925
60 A	120930	120928	120931	120926*	120925
Ohmic		220061			

#### Unshielded consumables



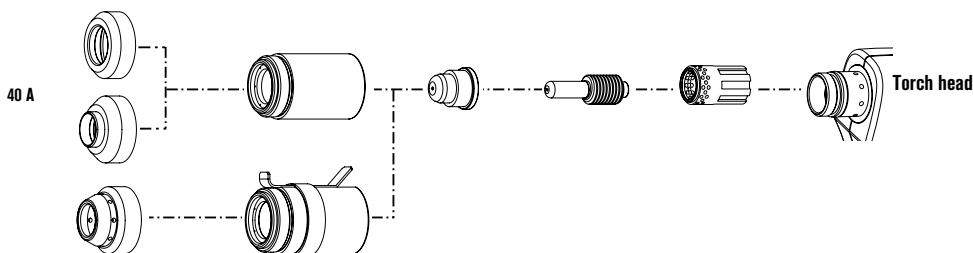
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006*	120926*	120925
60 A	120979	120928	220007*	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

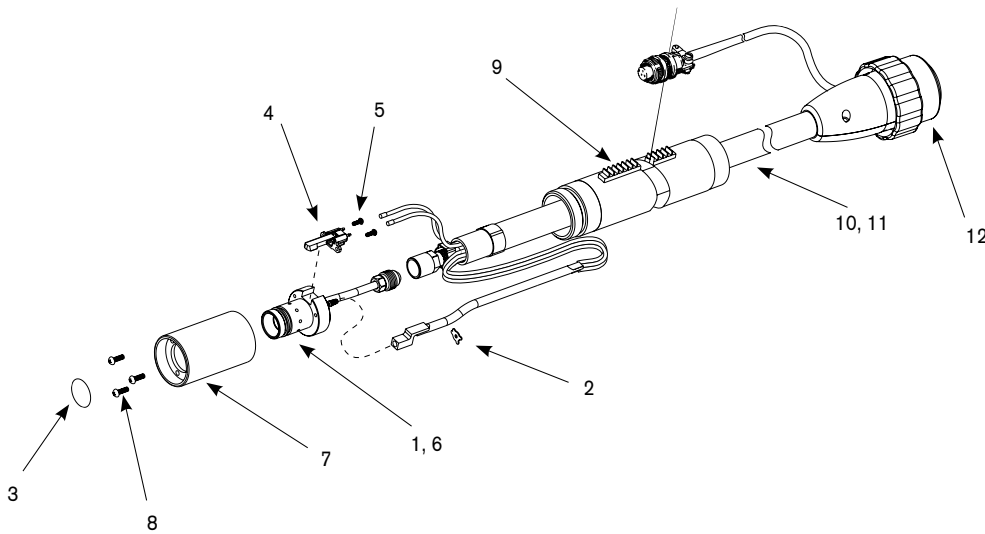
#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Spiral groove**  
**HyLife®**  
**Vented shield**

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

# RT60M

## RT60M machine torch assembly



### Assembly

Part number	Description
083217*	RT60M machine torch assembly with 25' (7.6 m) leads
083218*	RT60M machine torch assembly with 50' (15.2 m) leads
083219*	Test torch with 6' (1.8 m) leads
1. 128640	Kit: torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: cap-off sensor replacement
5. 075571	Cap-off sensor screws
6. 128521	Kit: torch head repair (does not include head, includes screws)
7. 128643	Kit: torch mounting sleeve replacement
8. 075618	Torch mounting screws
9. 128710	Torch positioning sleeve
10. 128924	Torch lead replacement, 25' (7.6 m)
11. 128925	Torch lead replacement, 50' (15.2 m)
12. 128926	Kit: RT60/RT60M quick disconnect repair
128645	Torch mounting kit (for reassembly after installation)

\*Assembly includes consumables





# Hypertherm®

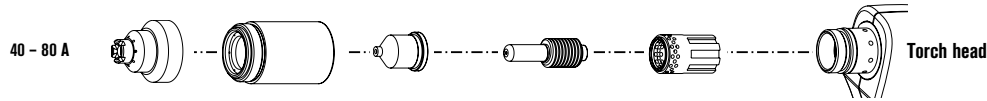
## RT80 Retrofit torch

For Powermax1100

### RT80 hand torch consumables

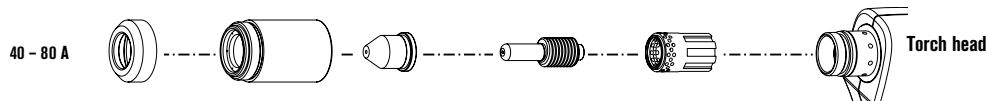


#### Shielded consumables



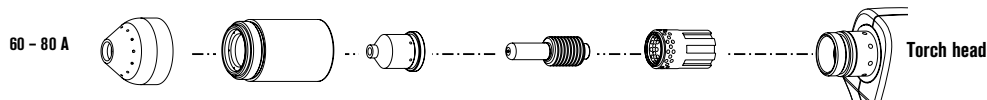
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120929	120928	120932*	120926*	120925
40 A	120929	120928	120931*	120926*	120925
60 A	120929	120928	120927*	120926*	120925
80 A	120929	120928	120927*	120926*	120925

#### Unshielded\*\* consumables



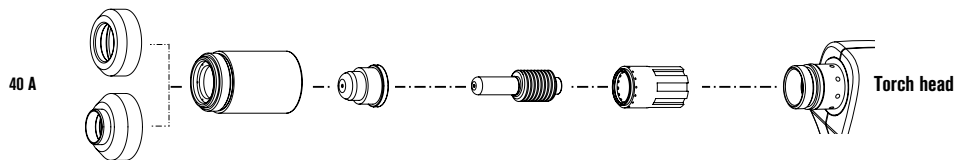
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 - 80 A	120979	120928	220006	120926*	120925
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE***	220325	120928	220329	120926*	220327

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

\*\* In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.

\*\*\* CE shield for use in countries requiring CE, CCC, GOST marks.

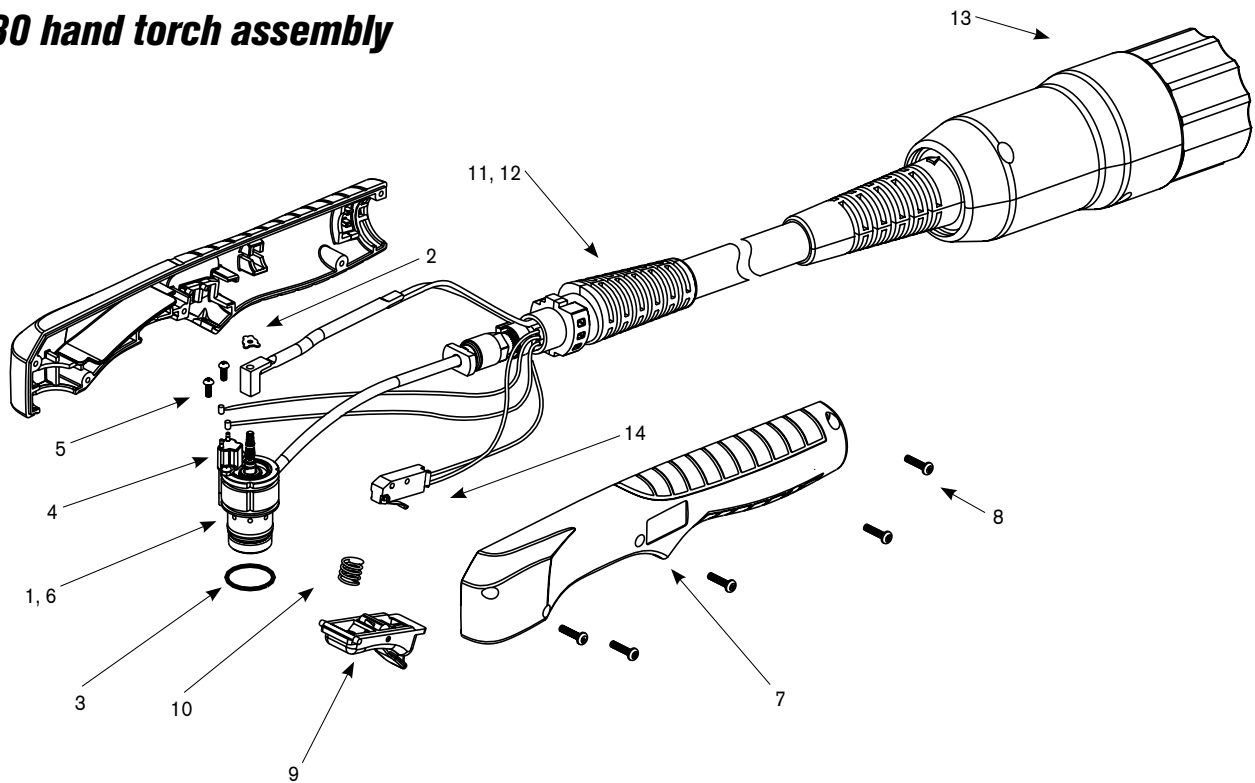
#### TECHNOLOGIES

**FineCut®**  
**Coaxial-assist™ jet**  
**Spiral groove**  
**HyLife®**  
**Vented shield**

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# RT80 for Powermax 1100

## RT80 hand torch assembly



### Assembly

Part number	Description
087033*	RT80 hand torch assembly with 25' (7.6 m) leads
087034*	RT80 hand torch assembly with 50' (15.2 m) leads
1. 128564	Kit: torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: cap-off sensor replacement
5. 075571	Cap-off sensor screws
6. 128521	Kit: torch head repair (does not include head, includes screws)
7. 128644	Kit: handle
8. 075586	Handle screws
9. 002244	Safety trigger
10. 027254	Trigger spring
11. 128829	Torch lead replacement, 25' (7.6 m)
12. 128830	Torch lead replacement, 50' (15.2 m)
13. 128826	Kit: quick disconnect repair
14. 128642	Kit: start switch replacement

\*Assembly includes consumables



# Hypertherm®

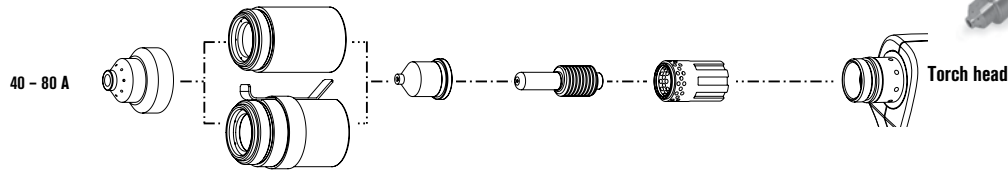
## RT80M Retrofit torch

For Powermax1100

### RT80M machine torch consumables

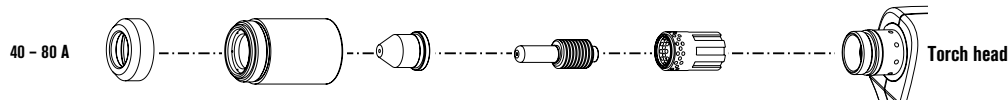


#### Shielded consumables



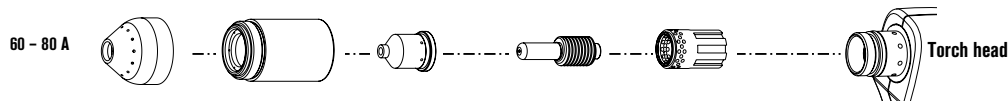
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932*	120926*	120925
60 A	120930	120928	120931*	120926*	120925
80 A	120930	120928	120927*	120926*	120925
Ohmic		220061			

#### Unshielded consumables



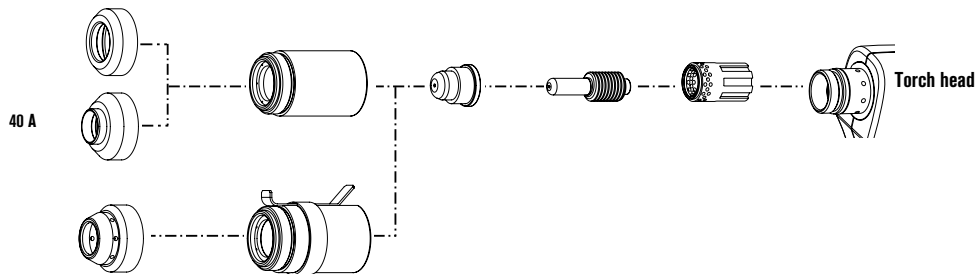
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
60 - 80 A	120977	120928	220059	120926*	120925

#### FineCut consumables



	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

#### TECHNOLOGIES

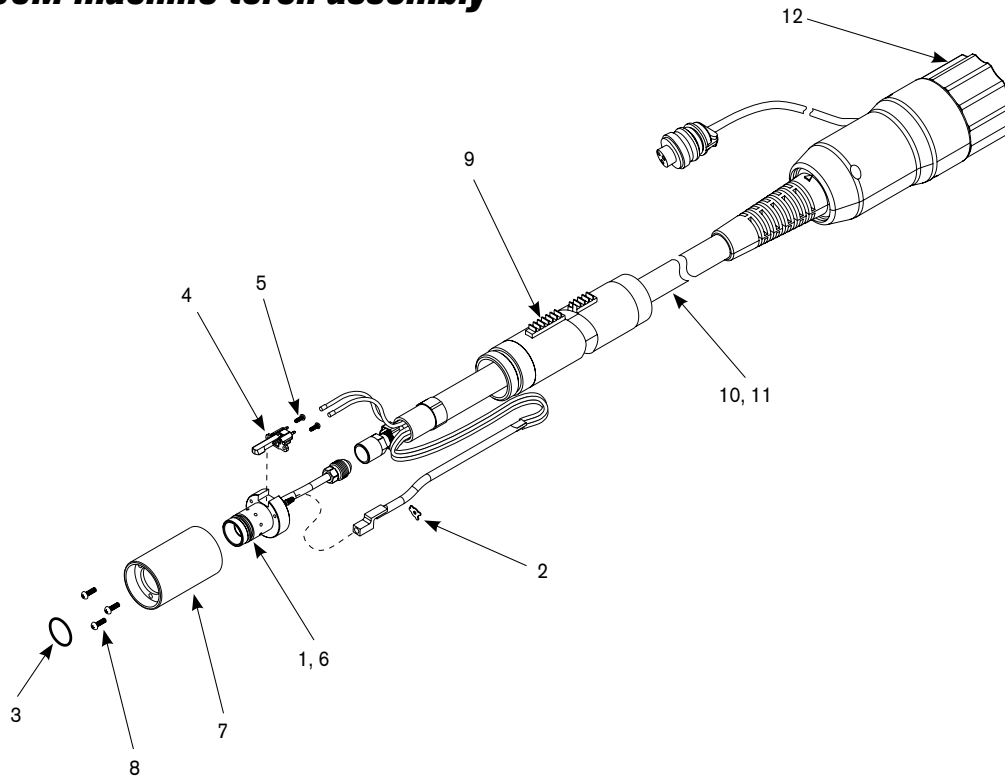
**FineCut®**  
**Coaxial-assist™ jet**  
**Spiral groove**  
**HyLife®**  
**Vented shield**

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# RT80M for Powermax1100

## RT80M machine torch assembly



### Assembly

Part number	Description
087035*	RT80M machine torch assembly with 25' (7.6 m) leads
087036*	RT80M machine torch assembly with 50' (15.2 m) leads
1. 128640	Kit: torch main body replacement (does not include cap sensor)
2. 027889	Retaining clip
3. 058519	O-ring
4. 128639	Kit: cap-off sensor replacement
5. 075571	Cap-off sensor screws
6. 128521	Kit: torch head repair (does not include head, includes screws)
7. 128643	Kit: torch mounting sleeve replacement
8. 075618	Torch mounting screws
9. 128710	Torch positioning sleeve
10. 128827	Torch lead replacement, 25' (7.6 m)
11. 128828	Torch lead replacement, 50' (15.2 m)
12. 128926	Kit: quick disconnect repair
128645	Torch mounting kit (for reassembly after installation)

\*Assembly includes consumables



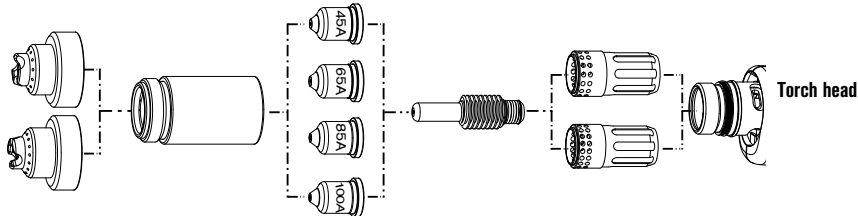
# Hypertherm®

## Duramax™ HRT/HRTs Retrofit torch

For Powermax1000/1250/1650

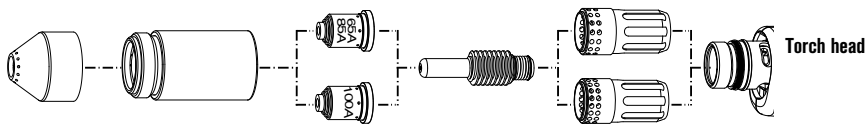
### HRT/HRTs hand torch consumables

#### Drag-cutting consumables



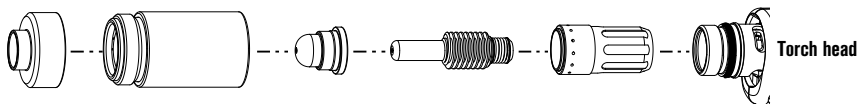
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857
85 A	220818*	220854	220816*	220842*	220857
100 A	220992*	220854	220990*	220842*	220994

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A/85 A	220798	220854	220797*	220842*	220857
100 A	220798	220854	220991*	220842*	220994

#### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220931	220854	220930*	220842*	220947



All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

#### TECHNOLOGIES

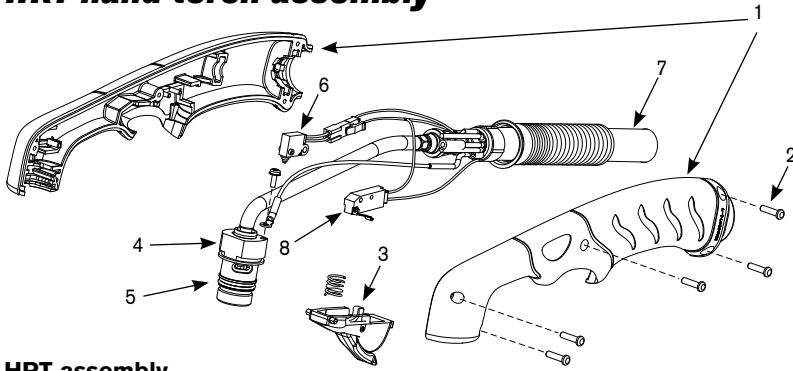
**FineCut®**  
**Dielectric shield**  
**Vented shield**  
**Conical Flow™**  
**Spring Start™**

Hypertherm, Powermax, FineCut, Conical Flow and Spring Start are trademarks of Hypertherm, Inc. and may be registered in the United States and/or other countries.

	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

# Duramax™ HRT

## HRT hand torch assembly



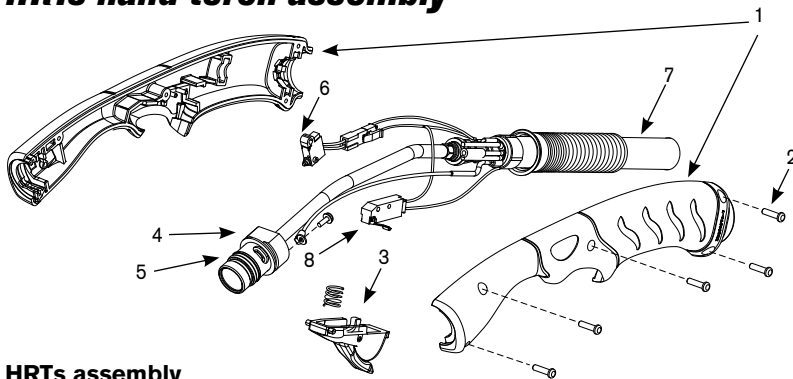
### HRT assembly

Part number	Description
228788*	HRT Hand torch assembly with 25' (7.6 m) lead
228789*	HRT Hand torch assembly with 50' (15.2 m) lead
1. 228717	Kit: H65/H85/HRT Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s/HRT (spring and trigger assembly)
4. 228792	Kit: HRT Torch main body replacement
5. 058519	O-ring
6. 228719	Kit: H65/H85/HRT Cap-sensor switch replacement
7. 228784	Kit: HRT/HRTs Torch lead replacement, 25' (7.6 m)
7. 228785	Kit: HRT/HRTs Torch lead replacement, 50' (15.2 m)
8. 005252	Trigger start switch
128772	Kit: ETR connector repair (regional repair centers only)

\*Assembly includes a variety of Duramax consumables

# Duramax™ HRTs

## HRTs hand torch assembly



### HRTs assembly

Part number	Description
228807*	HRTs Hand torch assembly with 25' (7.6 m) lead
228808*	HRTs Hand torch assembly with 50' (15.2 m) lead
1. 228718	Kit: H65s/H85s/HRTs Torch handle replacement
2. 075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3. 228721	Kit: H65/H85/H65s/H85s/HRT/HRTs (spring and trigger assembly)
4. 228809	Kit: HRTs Torch main body replacement
5. 058519	O-ring
6. 228109	Kit: H65s/H85s/HRTs Cap-sensor switch replacement
7. 228784	Kit: HRT/HRTs Torch lead replacement, 25 ft (7.6 m)
7. 228785	Kit: HRT/HRTs Torch lead replacement, 50 ft (15.2 m)
8. 005252	Trigger start switch
128772	Kit: ETR connector repair (regional repair centers only)

\*Assembly includes a variety of Duramax consumables

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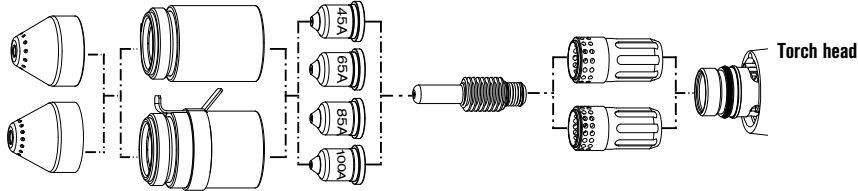
## Duramax™ MRT Retrofit torch

For Powermax1000/1250/1650

### MRT machine torch consumables

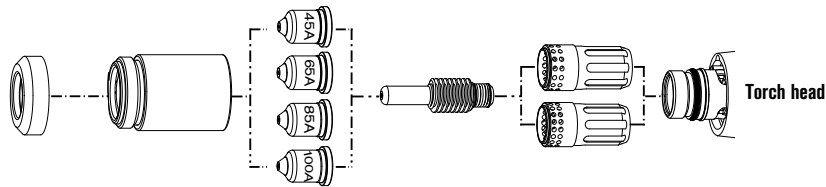


#### Mechanized consumables



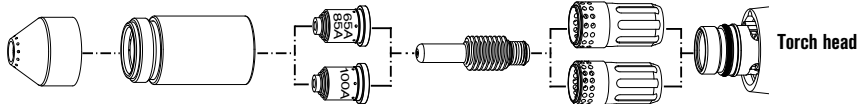
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
85 A	220817*	220854	220816*	220842*	220857
100 A	220993*	220854	220990*	220842*	220994
Ohmic		220953			

#### Unshielded consumables



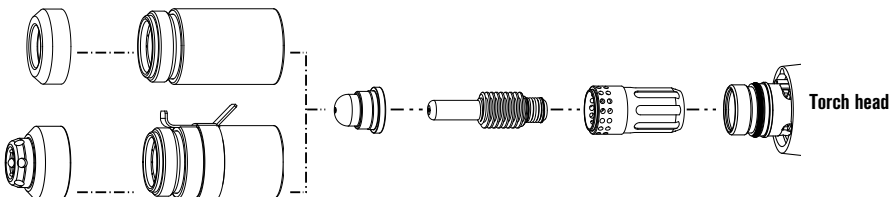
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857
85 A	220955	220854	220816*	220842*	220857
100 A	220955	220854	220990*	220842*	220994

#### Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A/85 A	220798	220854	220797*	220842*	220857
100 A	220798	220854	220991*	220842*	220994

#### FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220930*	220842*	220857
Ohmic	220948	220953			

All-in-one and FineCut kits available. Visit [www.hypertherm.com/consumablekits](http://www.hypertherm.com/consumablekits) or see pages 87 – 88 for options.

\* Consumables available in multiple packaging options, see page 87 for bulk package information.

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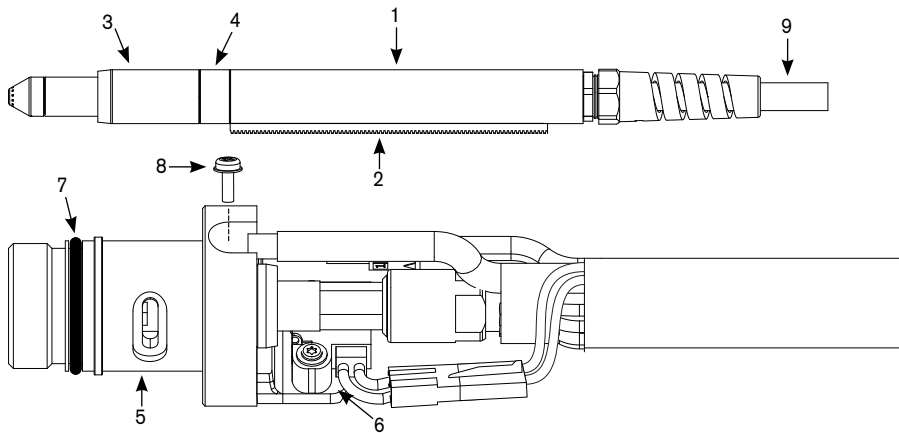
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Standard package quantity	1	1	5	5	1

#### TECHNOLOGIES

**FineCut®**  
**Dielectric shield**  
**Vented shield**  
**Conical Flow™**  
**Spring Start™**

# Duramax™ MRT

## MRT hand torch assembly



### MRT assembly

Part number	Description
228790*	MRT Machine torch assembly with 25' (7.6 m) lead
228791*	MRT Machine torch assembly with 50' (15.2 m) lead
1. 228737	Kit: M65/M85/MRT positioning sleeve
2. 228738	Kit: M65/M85/MRT removable gear rack
3. 228735	Kit: M65/M65m/M85/M85m/MRT front mounting sleeve
4. 228736	Kit: M65/M65m/M85/M85m/MRT adapter ring (coupler)
5. 228793	Kit: MRT torch main body replacement
6. 228720	Kit: Cap-sensor switch replacement
7. 058519	O-ring
8. 075504	Pilot terminal screw
9. 228786	Kit: MRT torch lead replacement, 25' (7.6 m)
9. 228787	Kit: MRT torch lead replacement, 50' (15.2 m)
128650	Remote start pendant for machine torch, 25' (7.6 m)
128651	Remote start pendant for machine torch, 50' (15.2 m)
128772	Kit: ETR connector repair (regional repair centers only)

\*Assembly includes a variety of Duramax consumables





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## Powermax bulk pack consumables

Contents of package	Bulk part number (SKU, order number)	Part type	Quantity
120926	228437	Electrode	25
120927	228438	Nozzle	25
120929	228439	Shield	10
120930	228601	Shield	10
120931	228440	Nozzle	25
120932	228441	Nozzle	25
220011	228442	Nozzle	25
220037	228443	Electrode	25
220047	228600	Shield	10
220065	228444	Shield	10
220797	228762	Nozzle	25
220816	228760	Nozzle	25
220817	228763	Shield	10
220818	228764	Shield	10
220819	228759	Nozzle	25
220842	228767	Electrode	25
220930	228761	Nozzle	25
220941	228765	Nozzle	25
220990	228797	Nozzle	25
220991	228796	Nozzle	25
220992	228798	Shield	10
220993	228799	Shield	10



## FineCut consumable kits

	Part number	CE Part number*	Compatible torches
<b>FineCut kit for Powermax1000</b>	128888	128889	T60, T60M
<b>Powermax1250</b>			RT60**, RT60M**
<b>Powermax1650</b>			RT80†, RT80M† T100, T100M
<b>FineCut Kit for Powermax600</b>	128886	128887	PAC121TS
<b>Powermax800</b>			PAC121M
<b>Powermax900</b>			PAC123T
<b>MAX42, MAX43</b>			PAC123M
<b>MAX40cs</b>			PAC125T PAC125M

\* CE consumable kits do not contain unshielded consumables and are for use in countries that require CE, CCC, or GOST marks

\*\* RT60 and RT60M retrofit torches are designed for Powermax600/800/900 and MAX42/43 systems

† RT80 and RT80M retrofit torches are designed for Powermax1100



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## All-in-one consumable kits



	English Kit number	English/ French/ Italian/ Spanish Kit number	English/ German/ Polish/ Czech Kit number	English/ Swedish/ Norwegian/ Finnish Kit number	English/ Chinese Kit number	French/ English Kit number	Spanish/ Portuguese Kit number	Compatible torches
<b>Powermax30</b>	850480	850825	850824	850823	850822	850821	850820	T30v, T45v
<b>Powermax45</b>	850490 CSA					850827 CSA	850826 CSA	T45v
	850740 CE*	850831 CE*	850830 CE*	850829 CE*	850828 CE*			
<b>Powermax1000</b>	850430 CSA					850833 CSA	850832 CSA	T60, RT60**
	850750 CE*	850837 CE*	850836 CE*	850835 CE*	850834 CE*			
<b>Powermax1250</b>	850440 CSA					850839 CSA	850838 CSA	T80, RT80†
	850760 CE*	850843 CE*	850842 CE*	850841 CE*	850840 CE*			
<b>Powermax1650</b>	850450 CSA					850845 CSA	850844 CSA	T100
	850770 CE*	850849 CE*	850848 CE*	850847 CE*	850846 CE*			

\* CE consumable kits do not contain unshielded consumables and are for use in countries that require CE, CCC, or GOST marks

\*\* RT60 and RT60M retrofit torches are designed for Powermax600/800/900 and MAX42/43 systems

† RT80 and RT80M retrofit torches are designed for Powermax1100

		English Kit number	English/ French/ Italian/ Spanish Kit number	English/ German/ Polish/ Czech Kit number	English/ Swedish/ Norwegian/ Finnish Kit number	English/ Chinese Kit number	French/ English Kit number	Spanish/ Portuguese Kit number	Compatible torches
<b>Powermax65/ Powermax1000 with Duramax RT torch</b>	Handheld	850910	850948	850966	850943	850944	850945	850946	H65/H65s/HRT/HRTs*
	Mechanized	850900	850971	850972	850973	850974	850975	850950	M65/M65m/MRT**
<b>Powermax85/ Powermax1250 with Duramax RT torch</b>	Handheld	850890	850965	850976	850967	850959	850969	850970	H85/H85s/HRT/HRTs*
	Mechanized	850880	850941	850960	850961	850962	850963	850964	M85/M85m/MRT**
<b>FineCut for Duramax torches</b>	Handheld	850930	850953	850954	850955	850956	850957	850968	H65/H85/H65s/H85s/ HRT/HRTs*
	Mechanized	850920	850947	850958	850949	850942	850951	850952	M65/M85/M65m/M85m/ MRT**

\* Duramax HRT/HRTs retrofit torches are designed for use with Powermax1000/1250/1650 systems in handheld applications.

\*\* Duramax MRT retrofit torches are designed for use with Powermax1000/1250/1650 systems in mechanized applications.



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## Retrofit Torches

Retrofit Torch RT60/RT60M for Powermax600/800/900® and MAX42/43®



Retrofit Torch RT80/RT80M for Powermax1100®



Retrofit Torches HRT/HRTs/MRT for Powermax1000/1250/1650®



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