Hypertherm®

2013–2014 torch and consumables catalog

For Powermax® and MAX® plasma systems

Hypertherm, Inc.
Etna Road, P.O. Box 5010
Hanover, NH 03755 USA
603-643-3441 Tel (Main Office)
603-643-5352 Fax (All Departments)
info@hypertherm.com (Main Office Email)
800-643-9878 Tel (Technical Service)
technical.service@hypertherm.com (Technical Service Email)
800-737-2978 Tel (Customer Service)
customer.service@hypertherm.com (Customer Service Email)
866-643-7711 Tel (Return Materials Authorization)
877-371-2876 Fax (Return Materials Authorization)
return.materials@hypertherm.com (RMA email)

Hypertherm Plasmatechnik GmbH
Technologiepark Hanau
Rodenbacher Chaussee 6
D-63457 Hanau-Wolfgang, Deutschland
49 6181 58 2100 Tel
49 6181 58 2134 Fax
49 6181 58 2123 (Technical Service)

Hypertherm (S) Pte Ltd.
82 Genting Lane
Media Centre
Annexe Block #A01-01
Singapore 349567, Republic of Singapore
65 6841 2489 Tel
65 6841 2490 Fax
65 6841 2489 (Technical Service)

Hypertherm (Shanghai) Trading Co., Ltd.
Unit 301, South Building
495 ShangZhong Road
Shanghai, 200231
PR China
86-21-60740003 Tel
86-21-60740393 Fax

Hypertherm Europe B.V.
Vaartveld 9
4704 SE
Roosendaal, Nederland
31 165 596907 Tel
31 165 596901 Fax
31 165 596908 Tel (Marketing)
31 165 596900 Tel (Technical Service)
00 800 4973 7843 Tel (Technical Service)

Hypertherm Japan Ltd.
Level 9, Edobori Center Building
2-1-1 Edobori, Nishi-ku
Osaka 550-0002 Japan
81 6 6225 1183 Tel
81 6 6225 1184 Fax

Hypertherm Brasil Ltda.
Rua Bras Cubas, 231 – Jardim Maia
Guarulhos, SP - Brasil
CEP 07115-030
55 11 2409 2636 Tel
55 11 2408 0462 Fax

Hypertherm México, S.A. de C.V.
Avenida Toluca No. 444, Anexo 1,
Colonia Olivar de los Padres
Delegación Álvaro Obregón
México, D.F. C.P. 01780
52 55 5681 8109 Tel
52 55 5683 2127 Fax

Hypertherm Korea Branch
#3904 Centum Leaders Mark B/D,
1514 Woo-dong, Haeundae-gu, Busan
Korea, 612-889
82 51 747 0358 Tel
82 51 701 0358 Fax

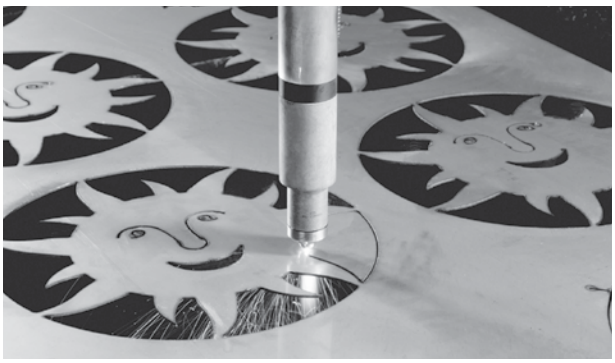
Contents

		Page
Section 1	**Technology overview**	iii
Section 2	**Torches and consumables for current Powermax systems**	
	Powermax30 hand torch and consumables	1
	Powermax45 hand and machine torch and consumables	3
	Powermax65 hand and machine torch and consumables	7
	Powermax85 hand and machine torch and consumables	13
	Powermax105 hand and machine torch and consumables	19
	Specialty consumables, bulk packs and kits	25
Section 3	**Torches and consumables for legacy systems**	
	Powermax190c hand torch and consumables	28
	Powermax350 hand torch and consumables	30
	Powermax380 hand torch and consumables	32
	Powermax600 hand and machine torch and consumables	34
	Powermax800 hand and machine torch and consumables	38
	Powermax900 hand and machine torch and consumables	42
	Powermax1000 hand and machine torch and consumables	46
	Powermax1100 hand and machine torch and consumables	50
	Powermax1250 hand and machine torch and consumables	54
	Powermax1650 hand and machine torch and consumables	58
	MAX20 hand torch and consumables	64
	MAX40/ HT40 hand and machine torch and consumables	66
	MAX40cs/42/43 hand and machine torch and consumables	70
	MAX70 /100 hand and machine torch and consumables	74
	MAX100D hand and machine torch and consumables	78
	HT40/HT40C machine torch and consumables	82
Section 4	**Retrofit torches by system**	
	Duramax™ HRT/HRTs retrofit torch for Powermax1000/1250/1650	84
	Duramax MRT retrofit torch for Powermax1000/1250/1650	86
	Duramax HRT/HRTs retrofit torch for Powermax600/800/900, MAX42/43	88
	Duramax MRT retrofit torch for Powermax600/800/900, MAX42/43	90
	RT60 and 60M retrofit torch for Powermax600/800/900, MAX42/43	92
	RT80 and 80M retrofit torch for Powermax1100	96
Section 5	**Appendix**	
	MAX42 and MAX43 systems Duramax retrofit torches and parts	100
	Powermax600 Duramax retrofit torches and parts	100
	Powermax800 and Powermax900 Duramax retrofit torches and parts	101
	Powermax1000 T100 replacement torches and parts	101
	Powermax1000 Duramax retrofit torches and parts	102
	Powermax1100 RT80 torch replacements and parts	102
	Powermax1250 Duramax retrofit torches and parts	102
	Powermax1250 T100 replacement torches and parts	103
	Powermax1650 Duramax replacement torches and parts	103
	Powermax1650 T100 replacement torches and parts	103
	Powermax65 Duramax replacement torches and parts	104
	Powermax85 Duramax Replacement Torches and Parts	104
	Powermax65 and Powermax85 torch and lead replacement kits	104

Hypertherm featured technologies

Hypertherm featured torches and consumables highlight the versatility of Powermax plasma systems for various cutting operations.

Gouging consumables for plasma systems provide a more efficient process than grinding and produces less noise and fumes than carbon arc gouging. Controlled arc and fast metal removal rates reduce metal warping.



FineCut® consumables deliver significantly improved cut quality on thin-plate metals by providing a narrower kerf with virtually no heat-affected zone and by dramatically reducing dross. FineCut is available for both hand and mechanized applications. Please refer to page 26 for information on FineCut consumable kits.

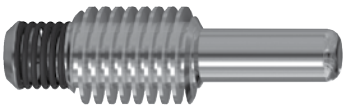
Gouge capacity for:

	Powermax65	Powermax85	Powermax105
Metal removal rate:	4.8 kg (10.7 lbs.) per hour	8.8 kg (19.5 lbs.) per hour	9.8 kg (21.7 lbs.) per hour
Width:	6.6 mm (.26") W	7.1 mm (.28") W	7.4 mm (.29") W
Depth:	3.5 mm (.14") D	5.8 mm (.23") D	6.4 mm (.25") D

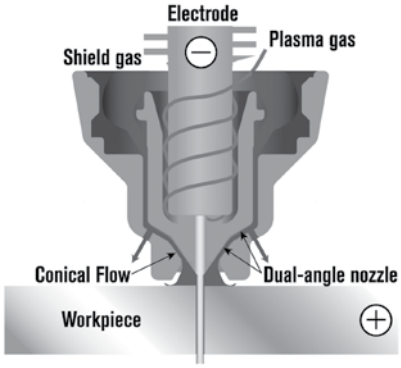
CopperPlus™ electrode is designed for use on all Duramax torches and delivers at least 2 times longer consumable life over standard consumables* when cutting metal 12 mm (½ inch) and under. For more information concerning CopperPlus performance please refer to the back cover of the catalog.

***Standard consumables refer to the original Hypertherm consumables designed for the system.**

SpringStart™ electrode technology ensures consistent, reliable starting by eliminating moving parts in the torch.



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



Duramax™ torches

Duramax torches are designed for durability and reliability. Seven different torch styles are available for handheld, mechanized and robotic cutting applications. Duramax torches come standard on Powermax65/85/105 systems.

Handheld	Mechanized	Robotic
Handheld torch handles are designed to be five times more impact resistant and 20% more heat resistant.	The mechanized torch can be converted to a mini-machine torch.	Robotic torches have been designed for precise positioning. Flats, grooves and dowel sockets on the torch body prevent rotational or horizontal slip.
75° hand torch	**180° full-length machine torch**	**90° robotic torch**
15° hand torch	**180° mini machine torch**	**45° robotic torch**
		180° robotic torch

Duramax retrofit torches

Duramax retrofit torches are available for legacy systems to improve overall system performance and includes torch connections specific to older systems to make retrofitting simple.

Hypertherm is dedicated to providing the latest in technological advancements that deliver on the performance demands critical to customers. To encourage the adoption of the latest in Hypertherm technology offerings, a torch obsolescence program was launched in 2012. The program involves torches for Powermax65/85 original torches and legacy Powermax600/800/900/1000/1250/1650 and MAX42/43 systems. The benefits in supporting this obsolescence plan include:

- **Consolidation of torch SKUs** –the torch obsolescence plan reduces the number of torch SKUs available for purchase from 85 to 27.
- **Consolidation of consumable SKUs** – once you convert your customers to Duramax torches, Powermax65/85/105 consumables may be ordered instead of standard “T style” consumables.
- **Save money** – upgrade/retrofit torches are priced comparably to standard torches. In some cases, the upgrade torches are priced significantly less than the current standard torch offering.
- **Satisfy customer needs** – the newest torches and consumables are designed to enhance both cut quality and improve consumable life and overall productivity to ensure the utmost in consumer satisfaction.

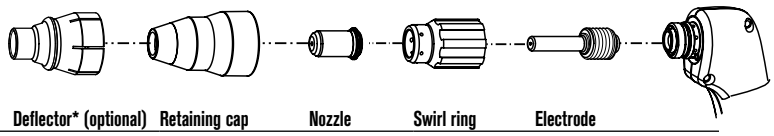
The Appendix to this catalog contains charts by system indicating the replacement part numbers and descriptions for those torches that are no longer available. Please note that as of **January 1, 2013** all remaining PAC123T, PAC125T and PAC135T 7.6 m (25') handheld torch assembly replacements have been discontinued. In addition, all lead replacement kits and torch bodies have been discontinued for T60, T60M, T80 and T80M torches. While Hypertherm is discontinuing many torch assemblies, **all consumables for all systems will remain available**.

Hypertherm®

powermax30®

T30v hand torch consumables

Standard consumables

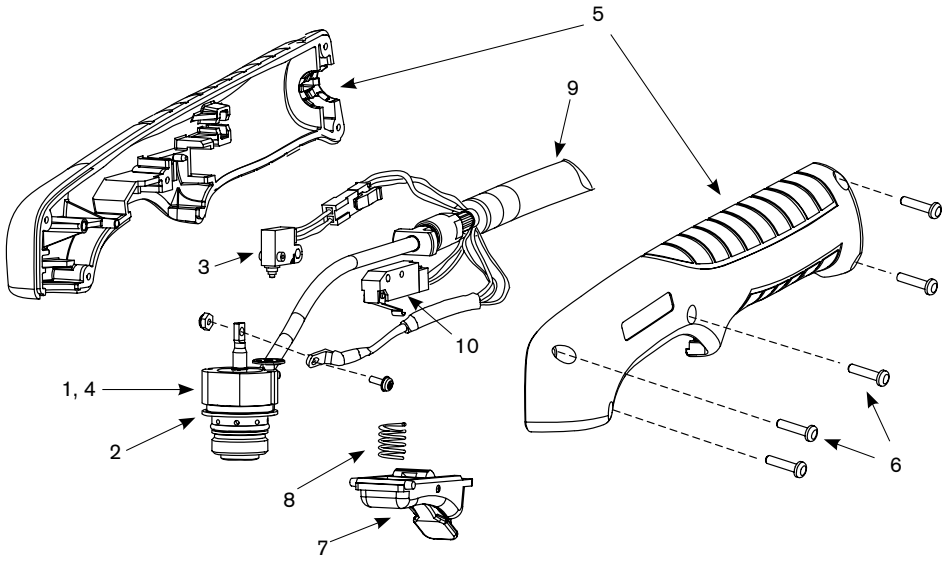


Deflector* (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
220569	220483	220480	220479	220478

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

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

T30v hand torch assembly



Assembly

	Part number	Description
	088001*	T30v hand torch assembly with 4.5 m (15') 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 4.5 m (15') torch lead replacement
10.	128642	Kit: T30v start switch replacement
	123868	Work lead with clamp, 4.5 m (15')

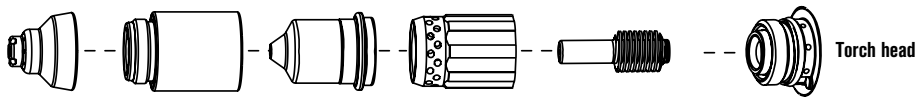
*Assembly includes consumables.

Hypertherm®

powermax45®

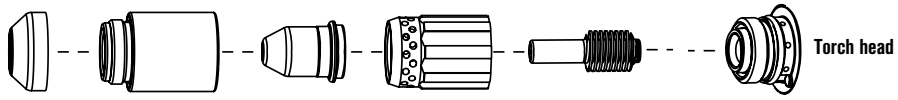
T45v hand torch consumables

Shielded consumables



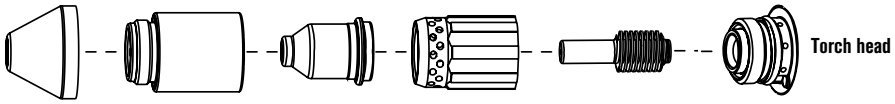
Shield	Retaining cap	Nozzle	Swirl ring	Electrode
220674	220713	220671	220670	220669

Unshielded* consumables



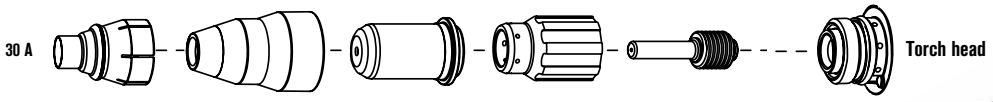
Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
220717	220713	220718	220670	220669

Gouging consumables



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

T30v consumables**



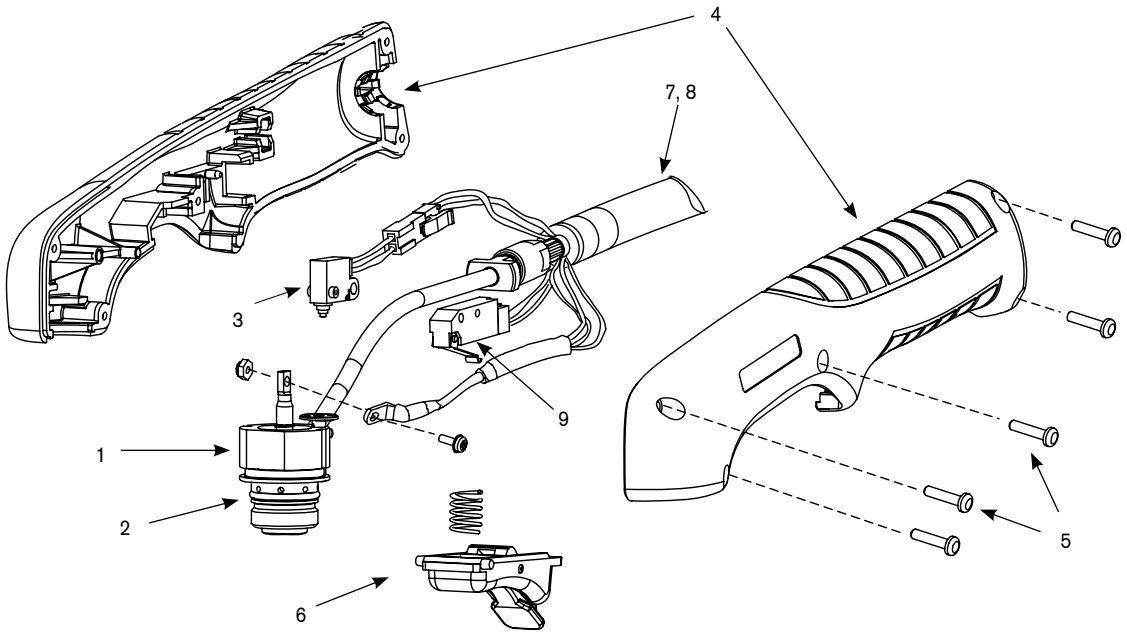
	Deflector (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
30 A	220569	220483	220480	220479	220478

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

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

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

T45v hand torch assembly



Assembly

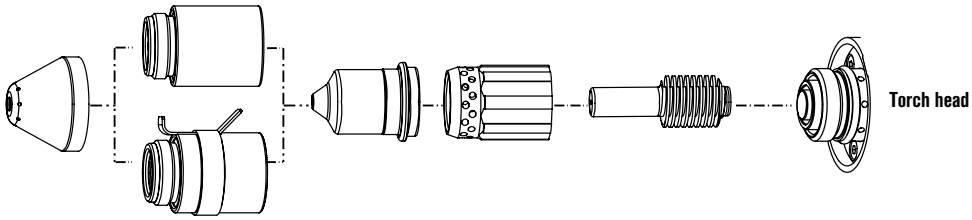
	Part number	Description
	088008*	T45v hand torch assembly with 6.1 m (20') leads
	088009*	T45v hand torch assembly with 15.2 m (50') leads
1.	228346	Kit: Torch body replacement
2.	058503	O-ring: torch body
3.	228109	Kit: Cap-sensor switch replacement
4.	228313	Kit: handle
5.	075714	Handle screws
6.	002294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

*Assembly includes consumables.

Hypertherm®
powermax45 XP®

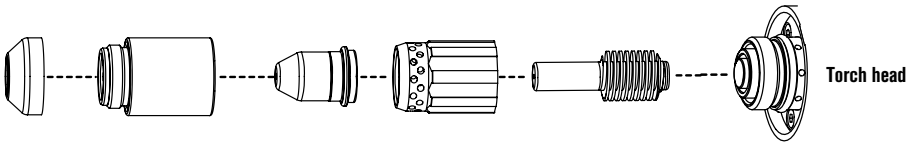
T45m machine torch consumables

Shielded consumables



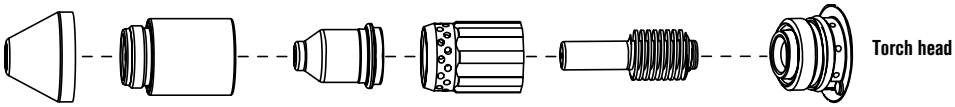
	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
	220673*	220713	220671*	220670	220669*
Ohmic		220719			

Unshielded consumables



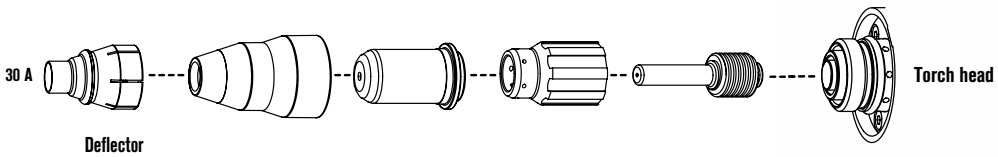
Deflector	Retaining cap	Nozzle	Swirl ring	Electrode
220717	220713	220718	220670	220669*

Gouging consumables



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

T30v consumables*



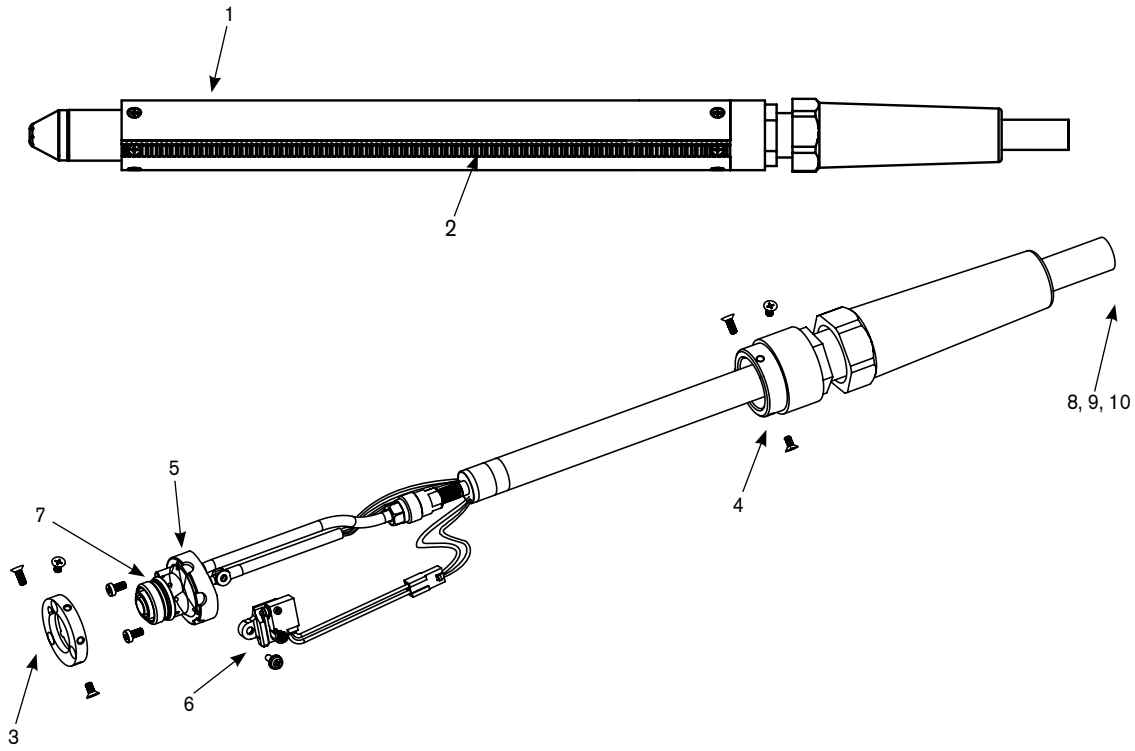
	Deflector (optional)	Retaining cap	Nozzle	Swirl ring	Electrode
30 A	220569	220483	220480	220479	220478

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

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

T45m machine torch assembly



Assembly

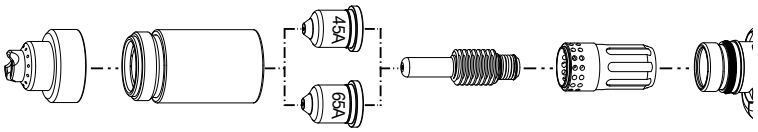
	Part number	Description
	088010*	T45m machine torch assembly with 7.6 m (25') leads
	088011*	T45m machine torch assembly with 10.7 m (35') leads
	088012*	T45m machine torch assembly with 15.2 m (50') leads
1.	228228	Kit: T45m positioning sleeve
2.	228229	Kit: T45m removable gear rack
3.	228322	Kit: Front 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, 7.6 m (25')
9.	228318	T45m torch lead replacement, 10.7 m (35')
10.	228319	T45m torch lead replacement, 15.2 m (50')
	128650	On/Off pendant for machine torch, 7.6 m (25')
	128651	On/Off pendant for machine torch, 15.2 m (50')
	128652	On/Off pendant for machine torch, 22.8 m (75')
	228300	Work lead with clamp, 6.1 m (20')
	228307	Work lead with clamp, 15.2 m (50')

*Assembly includes consumables.

Hypertherm®
powermax65®

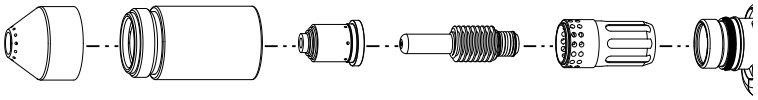
Duramax hand torch consumables

Drag-cutting consumables



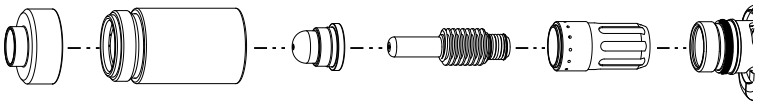
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857

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

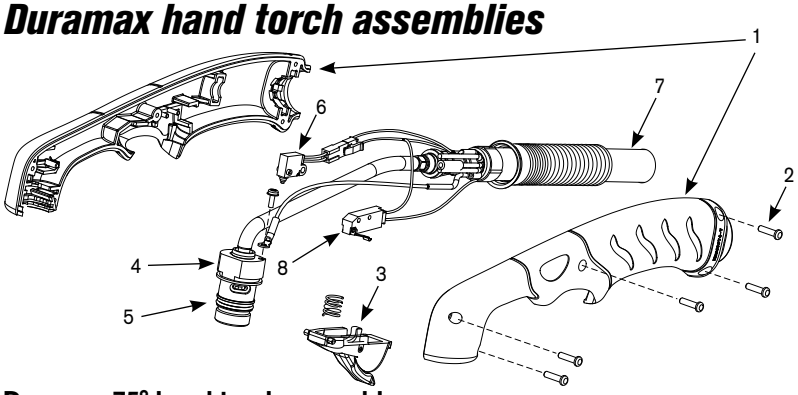
Duramax series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

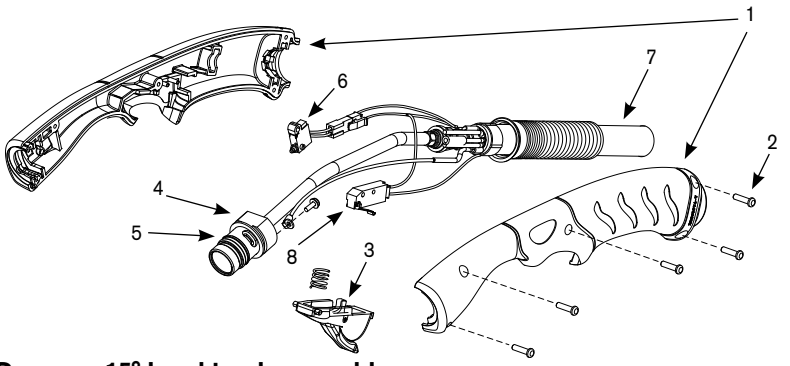
Duramax hand torch assemblies



Duramax 75° hand torch assembly

	Part number	Description
	059473	Duramax 75° hand torch assembly with 7.6 m (25') lead
	059474	Duramax 75° hand torch assembly with 15.2 m (50') lead
	059475	Duramax 75° hand torch assembly with 22.8 m (75') lead
1.	228954	Kit: Duramax 75°/HRT Torch handle replacement
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 75°/Duramax 15°/HRT/HRTs (spring and trigger assembly)
4.	228714*	Kit: Duramax 75° Torch main body replacement (3/8" coupler)
4.	228958*	Kit: Duramax 75° Torch main body replacment (1/2" coupler)
5.	058519	O-ring
6.	228719	Kit: Duramax 75° Cap-sensor switch replacement
7.	228959*	Kit: Duramax 75° Torch lead replacement, 7.6 m (25')
7.	228960*	Kit: Duramax 75° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 75° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223125†	Kit: 65 A Work lead with hand clamp, 7.6 m (25')

*Before ordering these parts verify the date the torch was built.
†Other work lead options available.



Duramax 15° hand torch assembly

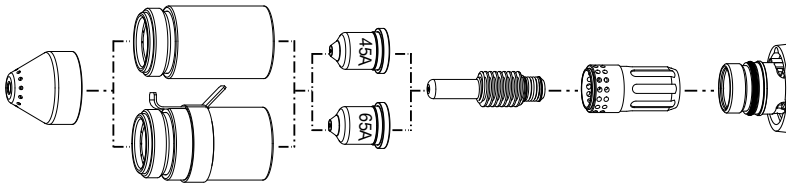
	Part number	Description
	059470	Duramax 15° hand torch assembly with 7.6 m (25') lead
	059471	Duramax 15° hand torch assembly with 15.2 m (50') lead
	059472	Duramax 15° hand torch assembly with 22.8 m (75') lead
1.	228955	Kit: Duramax 15° Torch handle replacement
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 15°/Duramax 75°/HRT/HRTs (spring and trigger assembly)
4.	228715*	Kit: Duramax 15° Torch main body replacement (3/8" coupler)
4.	228957*	Kit: Duramax 15° Torch main body replacment (1/2" coupler)
5.	058519	O-ring
6.	228109	Kit: Duramax 15° Cap-sensor switch replacement
7.	228959*	Kit: Duramax 15° Torch lead replacement, 7.6 m (25')
7.	228960*	Kit: Duramax 15° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 15° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223125†	Kit: 65 A Work lead with hand clamp, 7.6 m (25')

*Before ordering these parts verify the date the torch was built.
†Other work lead options available.

Hypertherm®
powermax65®

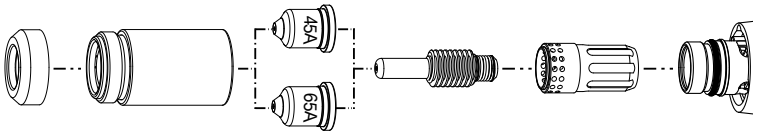
Duramax machine torch consumables

Mechanized consumables



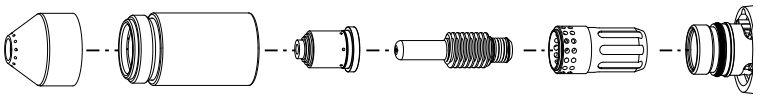
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
Ohmic		220953			

Unshielded consumables



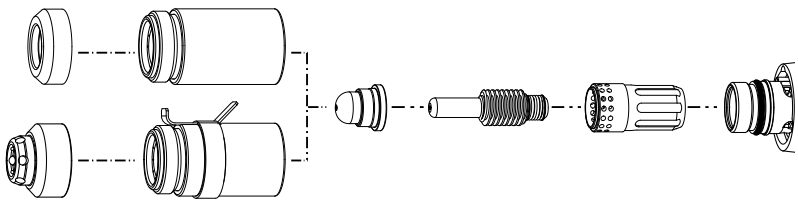
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857

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			

Duramax series

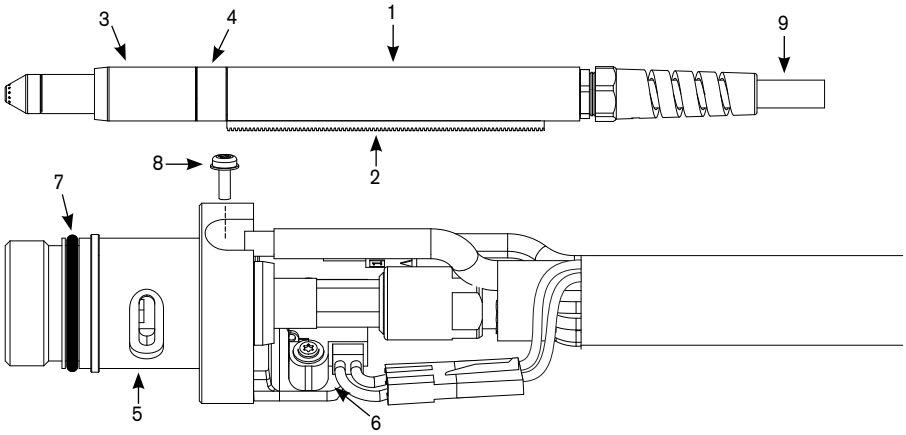
Duramax robotic series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax 180° and Duramax 180° mini machine torch assemblies



Duramax 180° torch assembly

	Part number	Description
	059476	Duramax 180° machine torch assembly with 4.5 m (15') lead
	059477	Duramax 180° machine torch assembly with 7.6 m (25') lead
.	059478	Duramax 180° machine torch assembly with 10.7 m (35') lead
	059479	Duramax 180° machine torch assembly with 15.2 m (50') lead
	059480	Duramax 180° machine torch assembly with 22.8 m (75') lead
1.	228737	Kit: Duramax 180° positioning sleeve
2.	228738	Kit: Duramax 180° removable gear rack
3.	228735	Kit: Duramax 180°/Duramax 180° torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° torch lead replacement, 10.7 m (35')
9.	228733	Kit: Duramax 180°/Duramax 180° torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223125†	Kit: 65 A Work lead with hand clamp, 7.6 m (25')

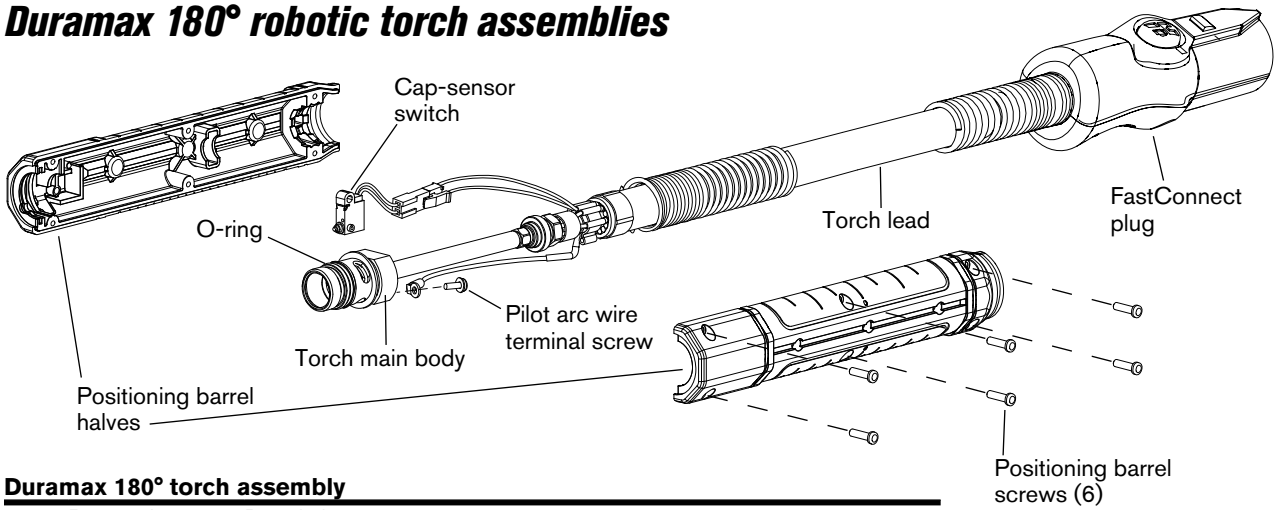
†Other work lead options available.

Duramax 180° mini torch assembly

	Part number	Description
	059481	Duramax 180° mini machine torch assembly with 4.5 m (15') lead
	059482	Duramax 180° mini machine torch assembly with 7.6 m (25') lead
	059483	Duramax 180° mini machine torch assembly with 10.7 m (35') lead
	059484	Duramax 180° mini machine torch assembly with 15.2 m (50') lead
3	228735	Kit: Duramax 180°/Duramax 180° mini torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° mini torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° mini torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 10.7 m (35')
9.	228733	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223125†	Kit: 65 A Work lead with hand clamp, 7.6 m (25')
	223125†	Kit: 65 A Work lead with hand clamp, 7.6 m (25')

†Other work lead options available.

Duramax 180° robotic torch assemblies

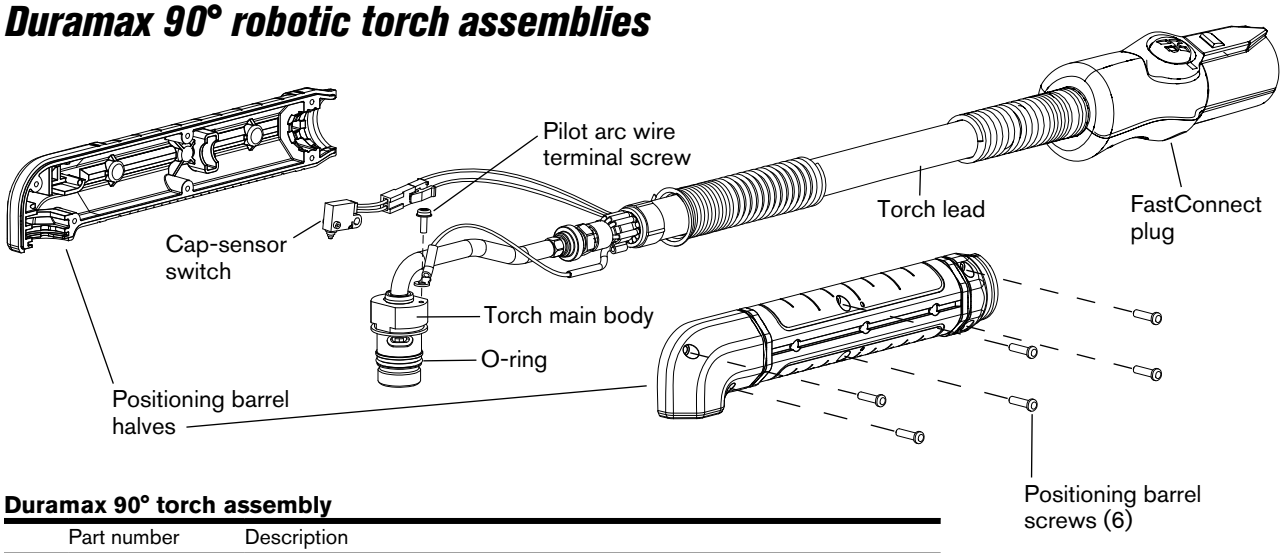


Duramax 180° torch assembly

Part number	Description
059466	180° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228853	Kit: 180° Robotic torch main body replacement
228856	Kit: 180° Robotic torch positioning barrel replacement

Note: The entire 180° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 90° robotic torch assemblies

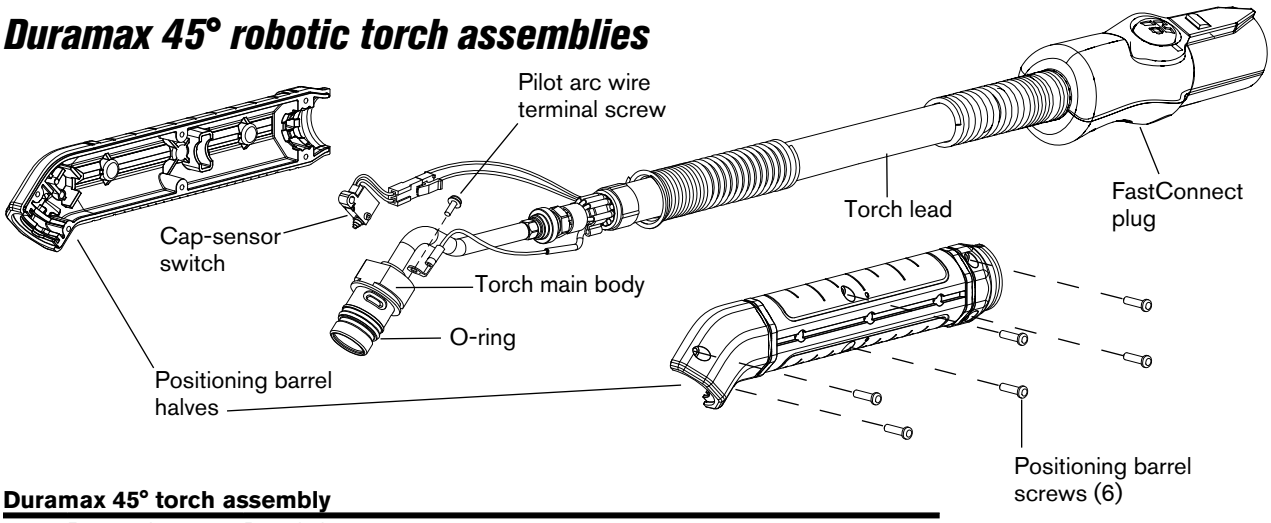


Duramax 90° torch assembly

Part number	Description
059465	90° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228854	Kit: 90° Robotic torch main body replacement
228857	Kit: 90° Robotic torch positioning barrel replacement

Note: The entire 90° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 45° robotic torch assemblies



Duramax 45° torch assembly

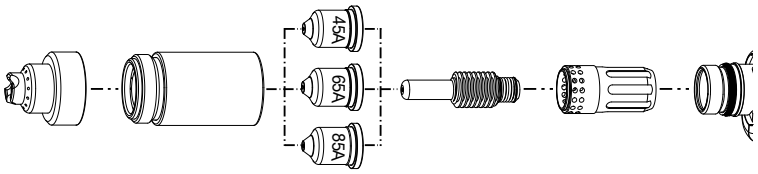
Part number	Description
059464	45° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228855	Kit: 45° Robotic torch main body replacement
228858	Kit: 45° Robotic torch positioning barrel replacement

Note: The entire 45° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Hypertherm®
powermax85®

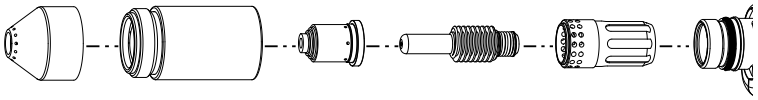
Duramax hand torch consumables

Drag-cutting consumables



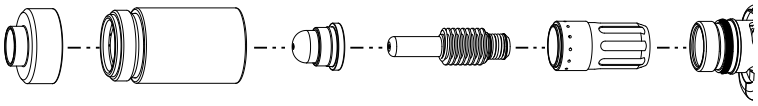
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857
85 A	220818*	220854	220816*	220842*	220857

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

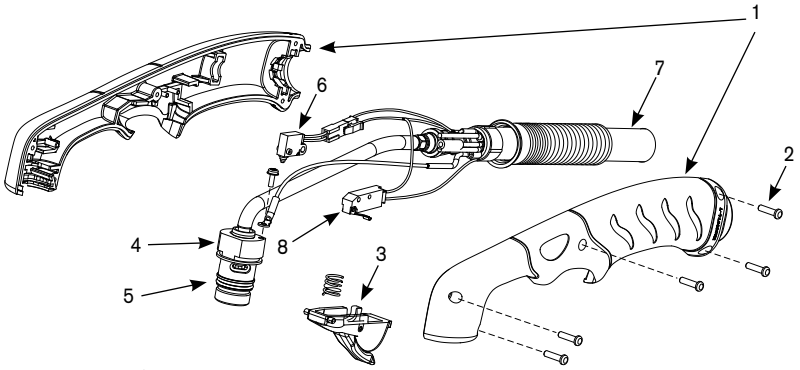
Duramax series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

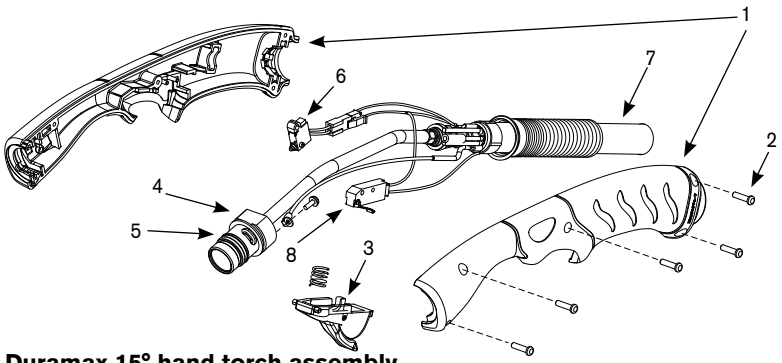
Duramax 75°and Duramax 15° hand torch assemblies



Duramax 75° hand torch assembly

	Part number	Description
	059473	Duramax 75° hand torch assembly with 7.6 m (25') lead
	059474	Duramax 75° hand torch assembly with 15.2 m (50') lead
	059475	Duramax 75° hand torch assembly with 22.8 m (75') lead
1.	228954	Kit: Duramax 75°/HRT Torch handle replacement
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 75°/Duramax 15°/HRT/HRTs (spring and trigger assembly)
4.	228714*	Kit: Duramax 75° Torch main body replacement (3/8" coupler)
4.	228958*	Kit: Duramax 75° Torch main body replacment (1/2" coupler)
5.	058519	O-ring
6.	228719	Kit: Duramax 75° Cap-sensor switch replacement
7.	228959*	Kit: Duramax 75° Torch lead replacement, 7.6 m (25')
7.	228960*	Kit: Duramax 75° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 75° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223035†	Kit: 85 A Work lead with hand clamp, 7.6 m (25')

*Before ordering this part verify the date the torch was built.
†Other work lead options available.



Duramax 15° hand torch assembly

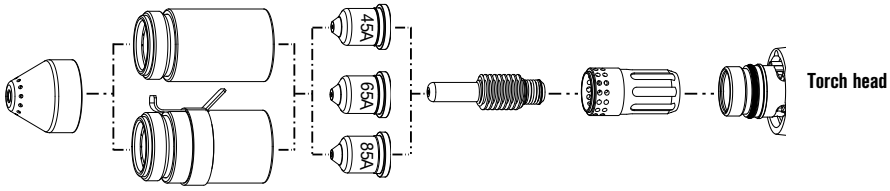
	Part number	Description
	059470	Duramax 15° hand torch assembly with 7.6 m (25') lead
	059471	Duramax 15° hand torch assembly with 15.2 m (50') lead
	059472	Duramax 15° hand torch assembly with 22.8 m (75') lead
1.	228955	Kit: Duramax 15° Torch handle replacement
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 15°/Duramax 75°/HRT/HRTs (spring and trigger assembly)
4.	228715*	Kit: Duramax 15° Torch main body replacement (3/8" coupler)
4.	228957*	Kit: Duramax 15° Torch main body replacment (1/2" coupler)
5.	058519	O-ring
6.	228109	Kit: Duramax 15° Cap-sensor switch replacement
7.	228959*	Kit: Duramax 15° Torch lead replacement, 7.6 m (25')
7.	228960*	Kit: Duramax 15° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 15° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223035†	Kit: 85 A Work lead with hand clamp, 7.6 m (25')

*Before ordering this part verify the date the torch was built.
†Other work lead options available.

Hypertherm®
powermax85®

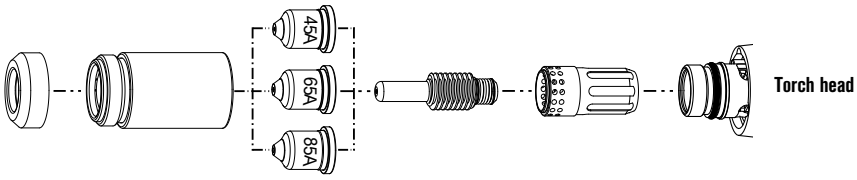
Duramax machine torch consumables

Mechanized consumables



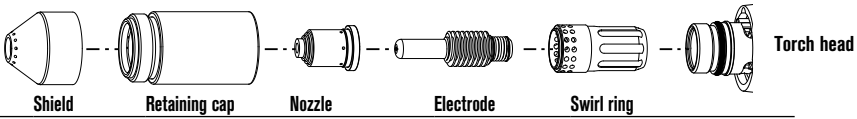
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
85 A	220817*	220854	220816*	220842*	220857
Ohmic		220953			

Unshielded consumables



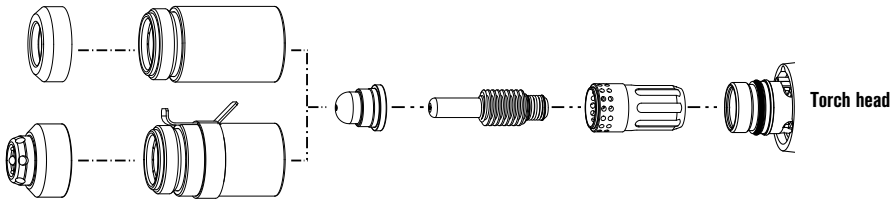
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857
85 A	220955	220854	220816*	220842*	220857

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			

Duramax series

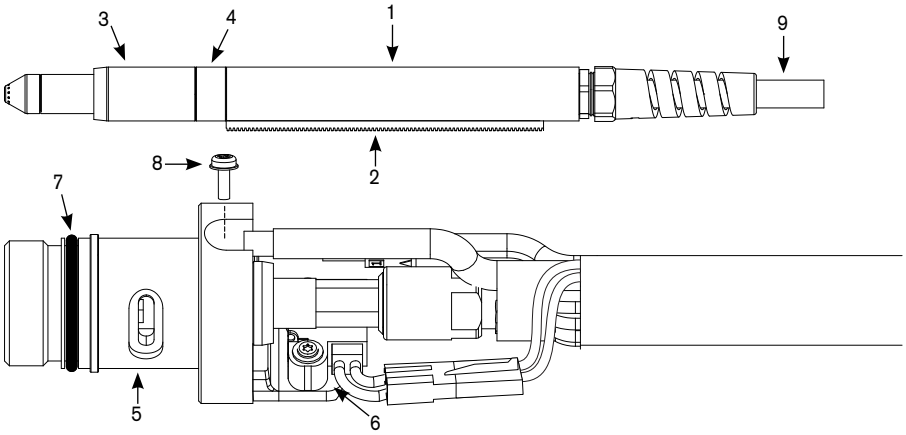
Duramax robotic series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax 180° and Duramax 180° mini machine torch assemblies



Duramax 180° torch assembly

	Part number	Description
	059476	Duramax 180° machine torch assembly with 4.5 m (15') lead
	059477	Duramax 180° machine torch assembly with 7.6 m (25') lead
.	059478	Duramax 180° machine torch assembly with 10.7 m (35') lead
	059479	Duramax 180° machine torch assembly with 15.2 m (50') lead
	059480	Duramax 180° machine torch assembly with 22.8 m (75') lead
1.	228737	Kit: Duramax 180° positioning sleeve
2.	228738	Kit: Duramax 180° removable gear rack
3.	228735	Kit: Duramax 180°/Duramax 180° torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° torch lead replacement, 10.7 m (35')
9.	228733	Kit: Duramax 180°/Duramax 180° torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223035†	Kit: 85 A Work lead with hand clamp, 7.6 m (25')

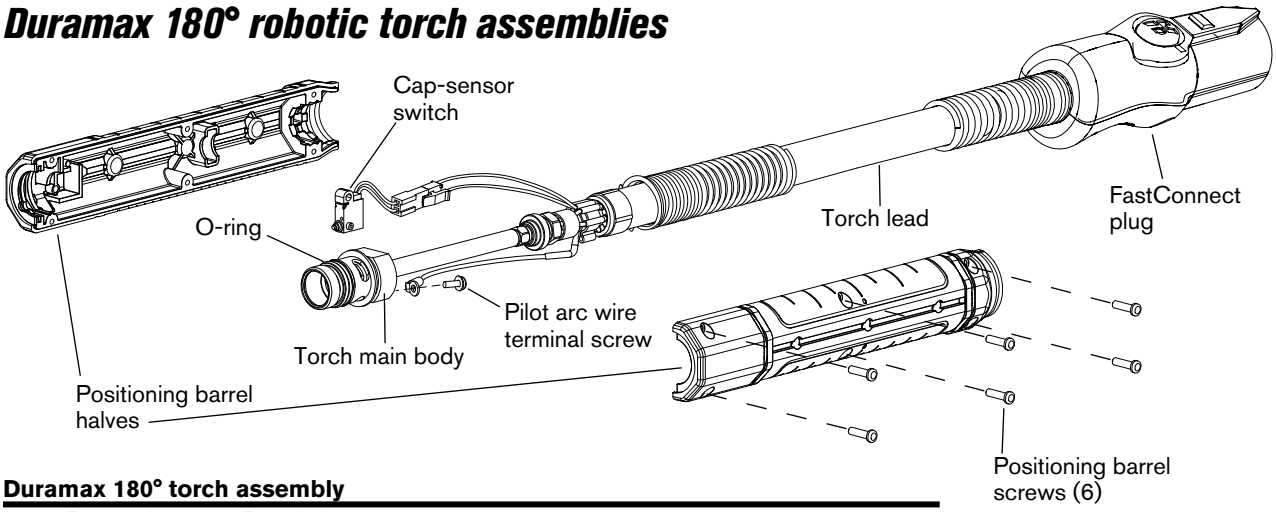
†Other work lead options available.

Duramax 180° mini torch assembly

	Part number	Description
	059481	Duramax 180° mini machine torch assembly with 4.5 m (15') lead
	059482	Duramax 180° mini machine torch assembly with 7.6 m (25') lead
	059483	Duramax 180° mini machine torch assembly with 10.7 m (35') lead
	059484	Duramax 180° mini machine torch assembly with 15.2 m (50') lead
3	228735	Kit: Duramax 180°/Duramax 180° mini torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° mini torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° mini torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 10.7 m (35')
9.	228733	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223035†	Kit: 85 A Work lead with hand clamp, 7.6 m (25')

†Other work lead options available.

Duramax 180° robotic torch assemblies

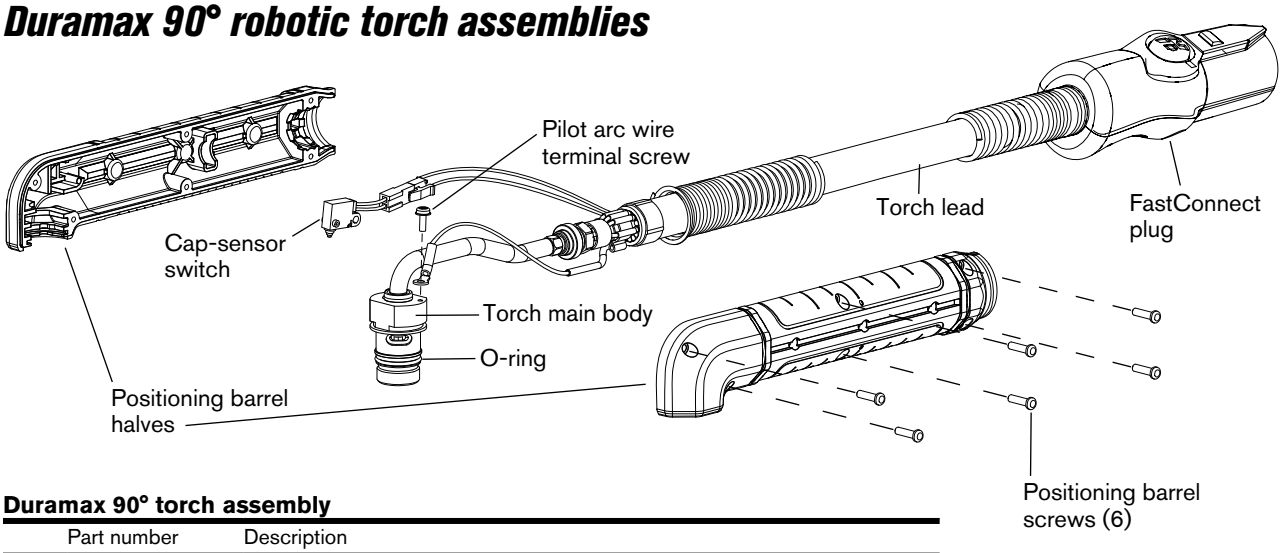


Duramax 180° torch assembly

Part number	Description
059466	180° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228853	Kit: 180° Robotic torch main body replacement
228856	Kit: 180° Robotic torch positioning barrel replacement

Note: The entire 180° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 90° robotic torch assemblies

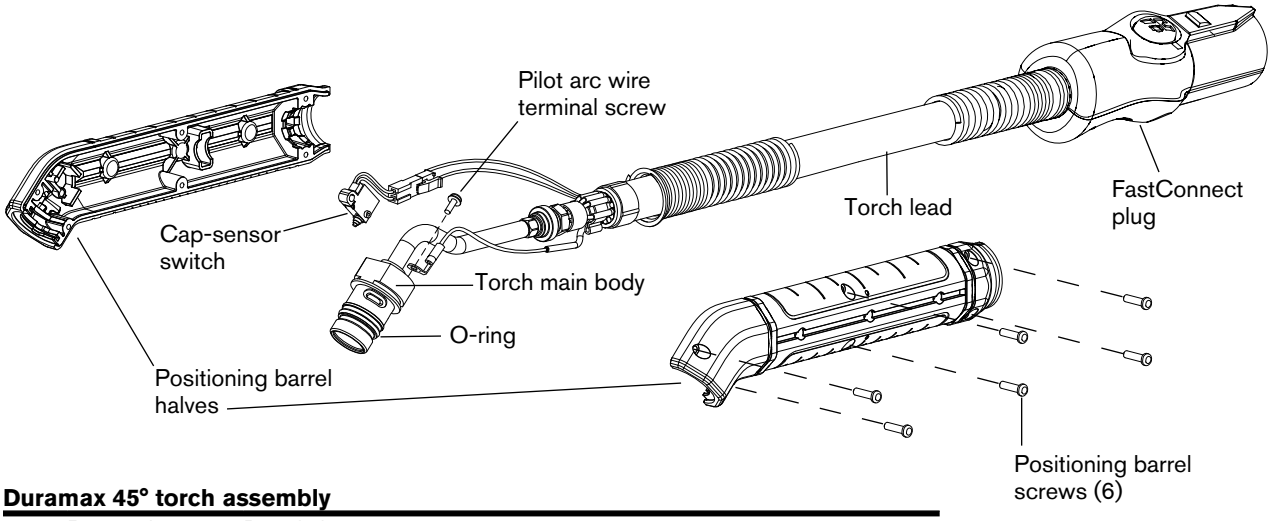


Duramax 90° torch assembly

Part number	Description
059465	90° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228854	Kit: 90° Robotic torch main body replacement
228857	Kit: 90° Robotic torch positioning barrel replacement

Note: The entire 90° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 45° robotic torch assemblies



Duramax 45° torch assembly

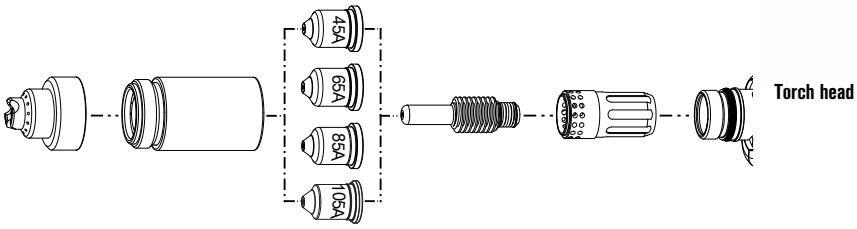
Part number	Description
059464	45° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228855	Kit: 45° Robotic torch main body replacement
228858	Kit: 45° Robotic torch positioning barrel replacement

Note: The entire 45° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Hypertherm®
powermax105®

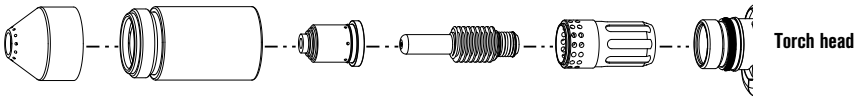
Duramax hand torch consumables

Drag-cutting consumables



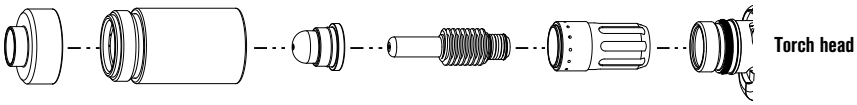
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220994
65 A	220818*	220854	220819*	220842*	220994
85 A	220818*	220854	220816*	220842*	220994
105 A	220992*	220854	220990*	220842*	220994

Gouging consumables



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

FineCut consumables



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

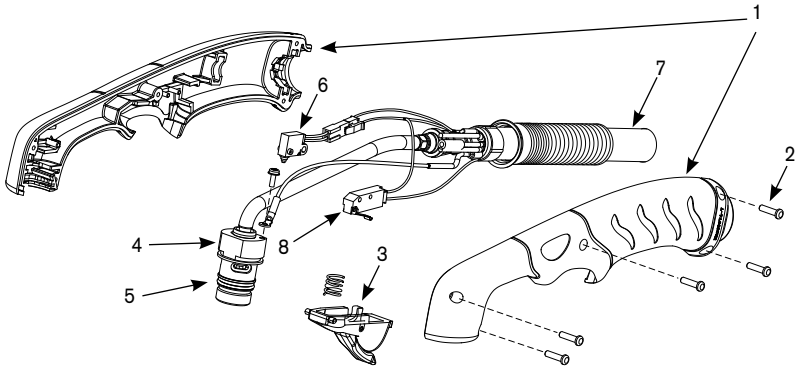
Duramax series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

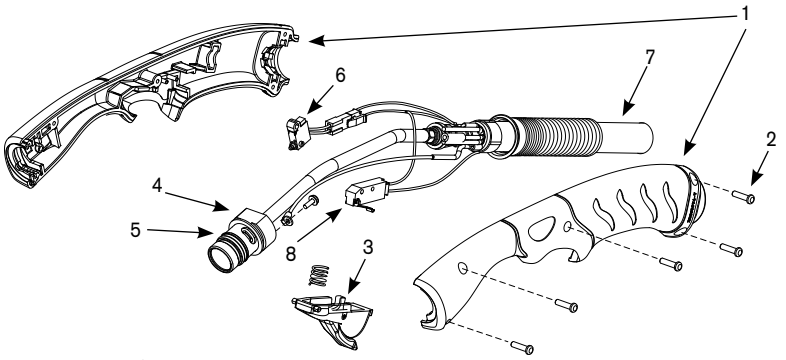
Duramax 75°and Duramax 15° hand torch assemblies



Duramax 75° hand torch assembly

	Part number	Description
	059473	Duramax 75° hand torch assembly with 7.6 m (25') lead
	059474	Duramax 75° hand torch assembly with 15.2 m (50') lead
	059475	Duramax 75° hand torch assembly with 22.8 m (75') lead
1.	228954	Kit: Duramax 75°/HRT Torch handle replacement
2.	075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 75°/Duramax 15°/HRT/HRTs (spring and trigger assembly)
4.	228958	Kit: Duramax 75°Torch main body replacement
5.	058519	O-ring
6.	228719	Kit: Duramax 75° Cap-sensor switch replacement
7.	228959	Kit: Duramax 75° Torch lead replacement, 7.6 m (25')
7.	228960	Kit: Duramax 75° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 75° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223254†	Kit: 105 A Work lead with hand clamp, 7.6 m (25')

†Other work lead options available.



Duramax 15° hand torch assembly

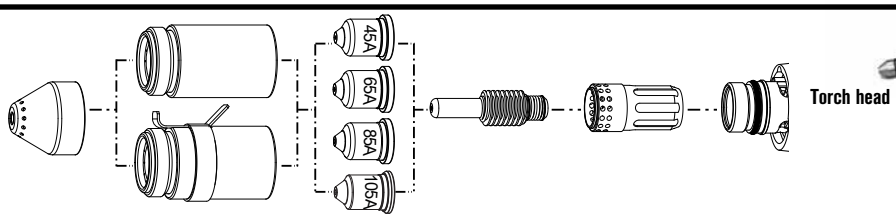
	Part number	Description
	059470	Duramax 15° hand torch assembly with 7.6 m (25') lead
	059471	Duramax 15° hand torch assembly with 15.2 m (50') lead
	059472	Duramax 15° hand torch assembly with 22.8 m (75') lead
1.	228955	Kit: Duramax 15° Torch handle replacement
2.	075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 15°/Duramax 75°/HRT/HRTs (spring and trigger assembly)
4.	228957	Kit: Duramax 15° Torch main body replacement
5.	058519	O-ring
6.	228109	Kit: Duramax 15° Cap-sensor switch replacement
7.	228959	Kit: Duramax 15° Torch lead replacement, 7.6 m (25')
7.	228960	Kit: Duramax 15° Torch lead replacement, 15.2 m (50')
7.	228961	Kit: Duramax 15° Torch lead replacement, 22.8 m (75')
8.	005252	Trigger start switch
	223254†	Kit: 105 A Work lead with hand clamp, 7.6 m (25')

†Other work lead options available.

Hypertherm®
powermax105®

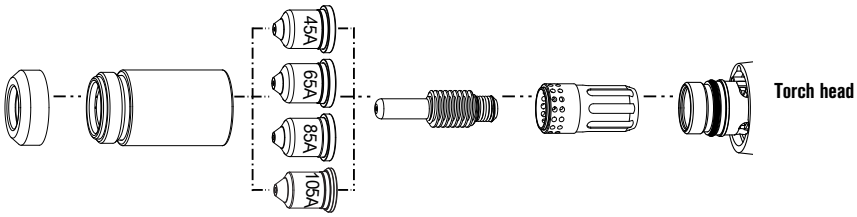
Duramax machine torch consumables

Mechanized consumables



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

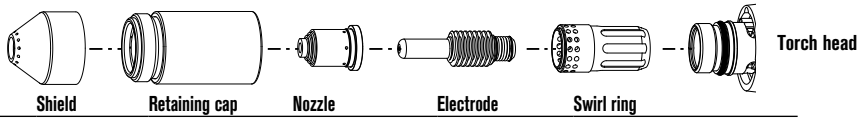
Unshielded consumables



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

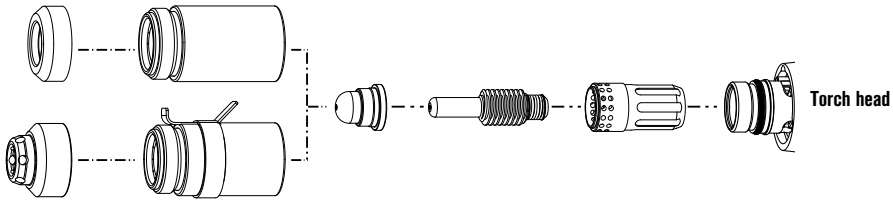
Duramax series

Gouging consumables



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

FineCut consumables



	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220930*	220842*	220994
Ohmic	220948	220953			

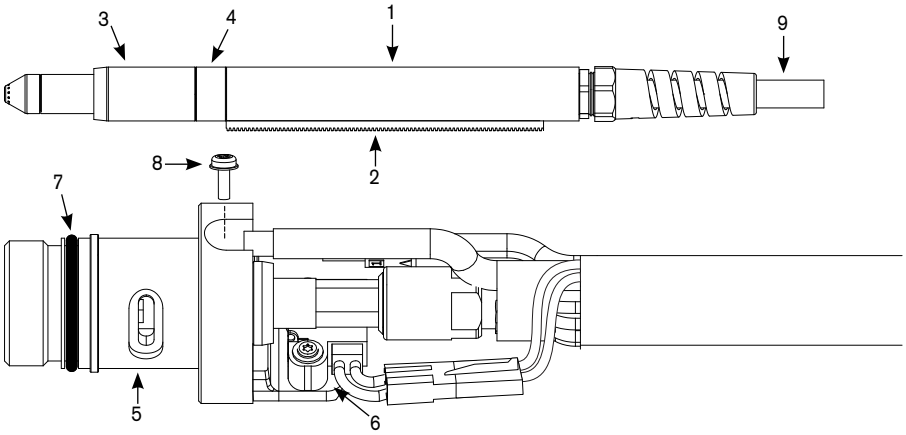
Duramax robotic series

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax 180° and Duramax 180° mini machine torch assemblies



Duramax 180° torch assembly

	Part number	Description
	059476	Duramax 180° machine torch assembly with 4.5 m (15') lead
	059477	Duramax 180° machine torch assembly with 7.6 m (25') lead
.	059478	Duramax 180° machine torch assembly with 10.7 m (35') lead
	059479	Duramax 180° machine torch assembly with 15.2 m (50') lead
	059480	Duramax 180° machine torch assembly with 22.8 m (75') lead
1.	228737	Kit: Duramax 180° positioning sleeve
2.	228738	Kit: Duramax 180° removable gear rack
3.	228735	Kit: Duramax 180°/Duramax 180° torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° torch lead replacement, 35' (10. m)
9.	228733	Kit: Duramax 180°/Duramax 180° torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223254†	Kit: 105 A Work lead with hand clamp, 7.6 m (25')

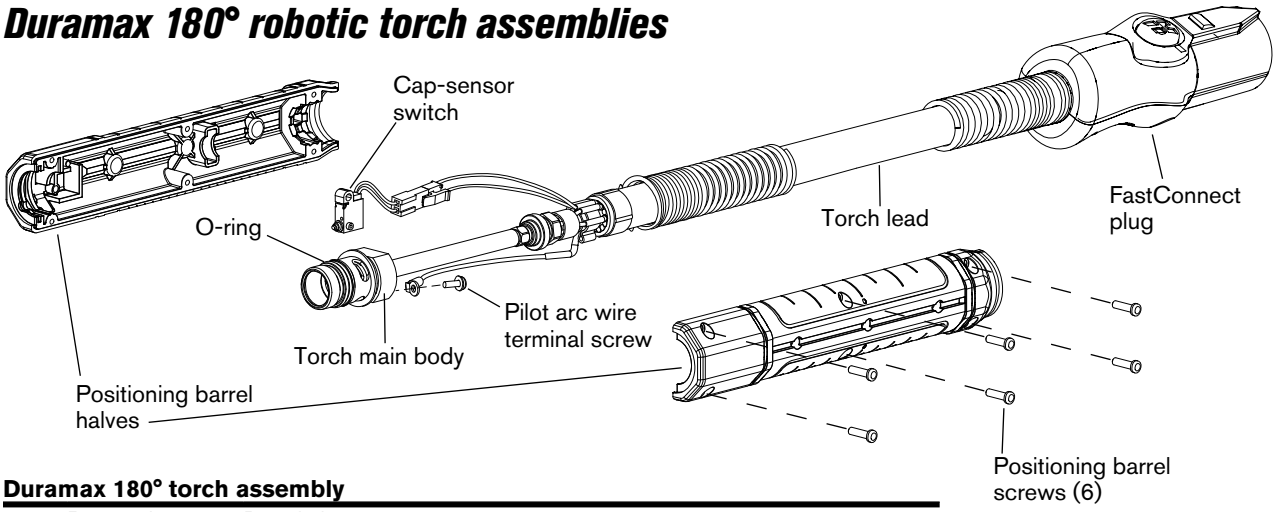
†Other work lead options available.

Duramax 180° mini torch assembly

	Part number	Description
	059481	Duramax 180° mini machine torch assembly with 4.5 m (15') lead
	059482	Duramax 180° mini machine torch assembly with 7.6 m (25') lead
	059483	Duramax 180° mini machine torch assembly with 10.7 m (35') lead
	059484	Duramax 180° mini machine torch assembly with 15.2 m (50') lead
3	228735	Kit: Duramax 180°/Duramax 180° mini torch front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° mini torch adapter ring (coupler)
5.	228716	Kit: Duramax 180°/Duramax 180° mini torch main body replacement
6.	228720	Kit: Cap-sensor switch replacement
7.	058519	O-ring
8.	075504	Pilot terminal screw
9.	228730	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 4.5 m (15')
9.	228731	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 7.6 m (25')
9.	228732	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 10.7 m (35')
9.	228733	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 15.2 m (50')
9.	228734	Kit: Duramax 180°/Duramax 180° mini torch lead replacement, 22.8 m (75')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128652	Remote start pendant for machine torch, 22.8 m (75')
	223254†	Kit: 105 A Work lead with hand clamp, 7.6 m (25')

†Other work lead options available.

Duramax 180° robotic torch assemblies

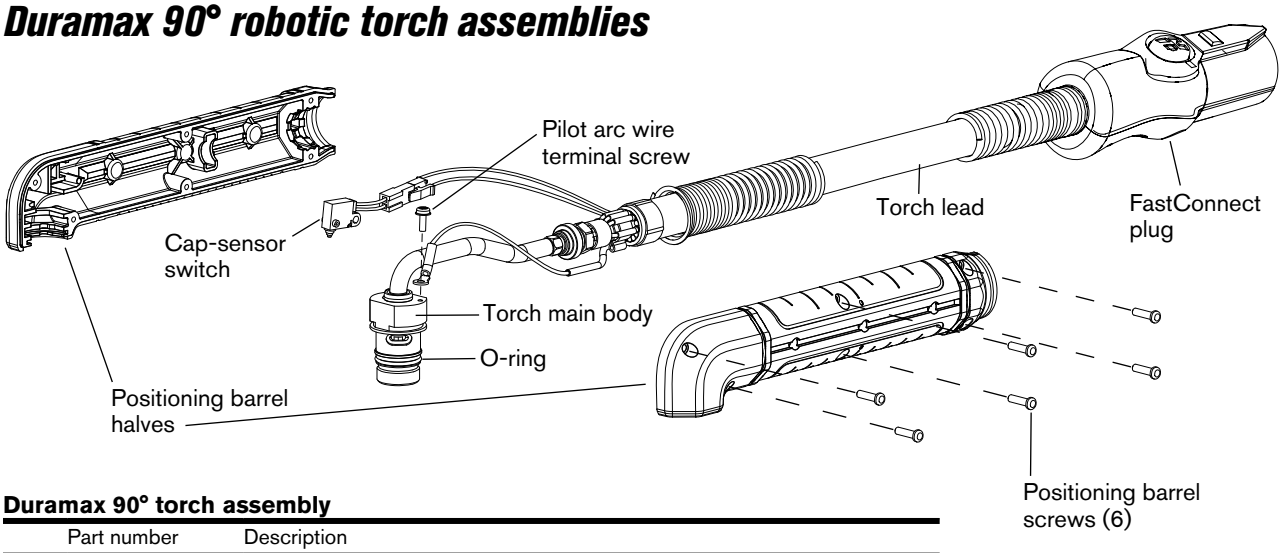


Duramax 180° torch assembly

Part number	Description
059466	180° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228853	Kit: 180° Robotic torch main body replacement
228856	Kit: 180° Robotic torch positioning barrel replacement

Note: The entire 180° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 90° robotic torch assemblies

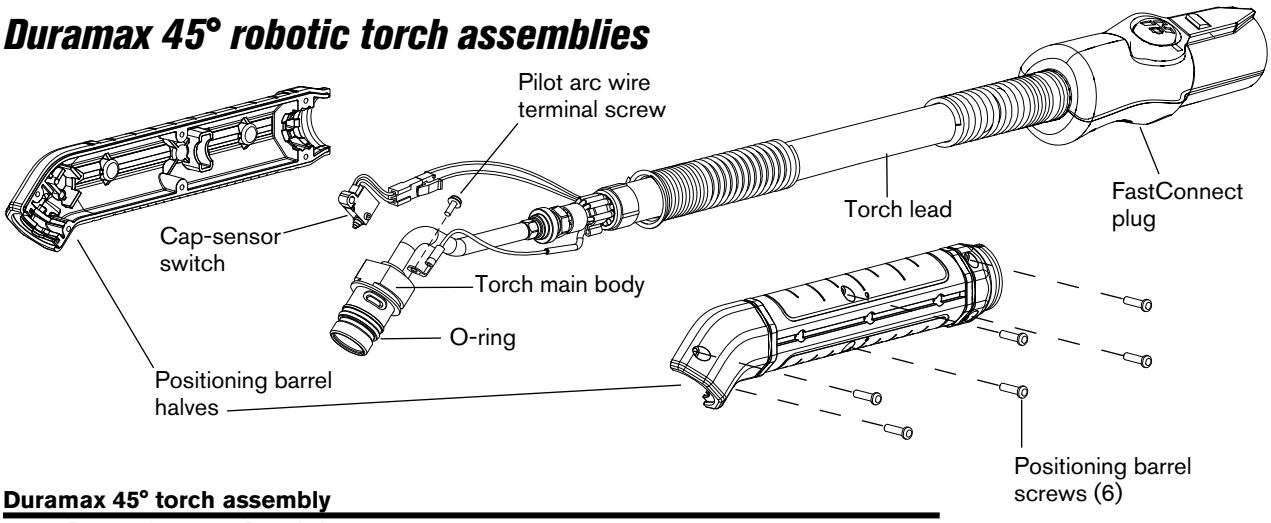


Duramax 90° torch assembly

Part number	Description
059465	90° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228854	Kit: 90° Robotic torch main body replacement
228857	Kit: 90° Robotic torch positioning barrel replacement

Note: The entire 90° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Duramax 45° robotic torch assemblies



Duramax 45° torch assembly

Part number	Description
059464	45° Duramax robotic torch assembly with leads
058519	O-ring
075504	Pilot terminal screw
075714	#4 x 1/2 slotted TORX pan head screws
228109	Kit: Cap-sensor switch replacement
228314	Kit: FastConnect replacement
228852	Kit: Robotic torch lead replacement, 7.6 m (25')
228855	Kit: 45° Robotic torch main body replacement
228858	Kit: 45° Robotic torch positioning barrel replacement

Note: The entire 45° robotic torch assembly with leads can be replaced, or individual component parts can be replaced.

Hypertherm®

All-in-one consumable kits

		English Kit number	French/ English Kit number	English/ French/ Italian/ Spanish Kit number	Spanish/ Portuguese Kit number	English/ Swedish/ Norwegian/ Finnish Kit number	English/ German/ Polish/Czech Kit number	English/ Chinese Kit number	Compatible torches
Powermax30	Handheld	850480	850821	850825	850820	850823	850824	850822	T30v, T45v
Powermax45	Handheld CSA	850490	850827	N/A	850826	N/A	N/A	N/A	T45v
	Handheld CE	850740	N/A	850831	N/A	850829	850830	850828	T45v
Powermax65	Handheld	850910	850945	850948	850946	850943	850966	850944	Duramax series hand torches
	Mechanized	850900	850975	850971	850950	850973	850972	850974	Duramax series machine torches
Powermax85	Handheld	850890	850969	850965	850970	850967	850976	850959	Duramax series hand torches
	Mechanized	850880	850963	850941	850964	850961	850960	850962	Duramax series machine torches
Powermax105	Handheld	850992	850993	850994	850995	850996	850998	850997	Duramax series hand torches
	Mechanized	850985	850986	850987	850988	850989	850991	850990	Duramax series machine torches

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

FineCut® consumable kits

		English Kit number	French/ English Kit number	English/ French/ Italian/ Spanish Kit number	Spanish/ Portuguese Kit number	English/ Swedish/ Norwegian/ Finnish Kit number	English/ German/ Polish/Czech Kit number	English/ Chinese Kit number	Compatible torches
FineCut for Powermax65, Powermax85, Powermax105, Duramax series torches	Handheld	850930	850957	850953	850968	850955	850954	850956	Duramax series hand torches
	Mechanized	850920	850951	850947	850952	850949	850958	850942	Duramax series machine torches

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

Hypertherm®

Powermax® bulk pack consumables

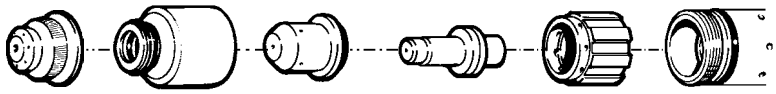
Contents of package	Bulk part number (SKU, order number)	Part type	Quantity
120926	228437	Electrode	25
120927	228438	Nozzle	25
120929	228439	Shield	10
120930	228601	Shield	10
120931	228440	Nozzle	25
120932	228441	Nozzle	25
220011	228442	Nozzle	25
220037	228443	Electrode	25
220047	228600	Shield	10
220065	228444	Shield	10
220669	228844	Electrode	25
220671	228843	Nozzle	25
220673	228845	Shield	10
220777	228934	Electrode	25
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

For more information, visit: **www.hypertherm.com/en-us/Torches_and_consumables/Hypertherm_plasma_consumables/**

Hypertherm®
powermax190c®

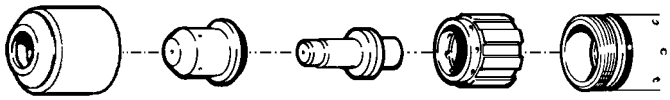
PAC105T hand torch consumables

Shielded consumables



Shield	Retaining cap	Nozzle	Electrode	Swirl ring
120884	120898	120882	120881	120880

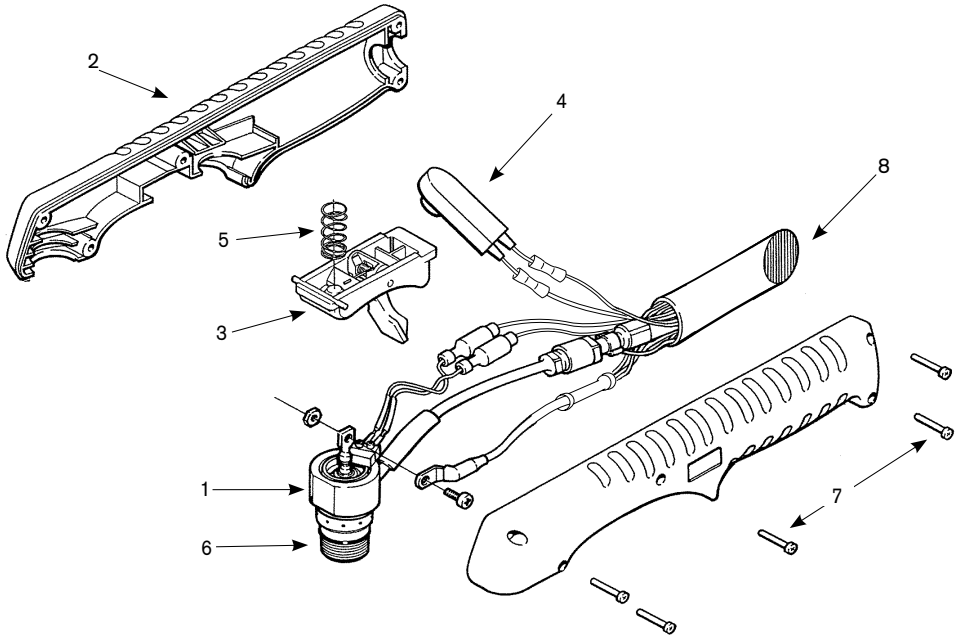
Unshielded* consumables



Retaining cap	Nozzle	Electrode	Swirl ring
120883	120882	120881	120880

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

PAC105T hand torch assembly



Assembly

	Part number	Description
	128833*	PAC105 hand torch assembly with 6.1 m (20') 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, 6.1 m (20')
	060133	Work lead with clamp 4.5 m (15')

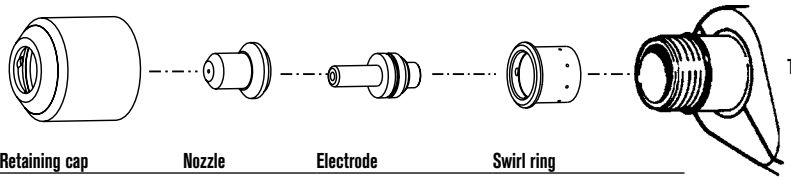
*Assembly includes consumables.

Hypertherm®

powermax350

PAC110 hand torch consumables

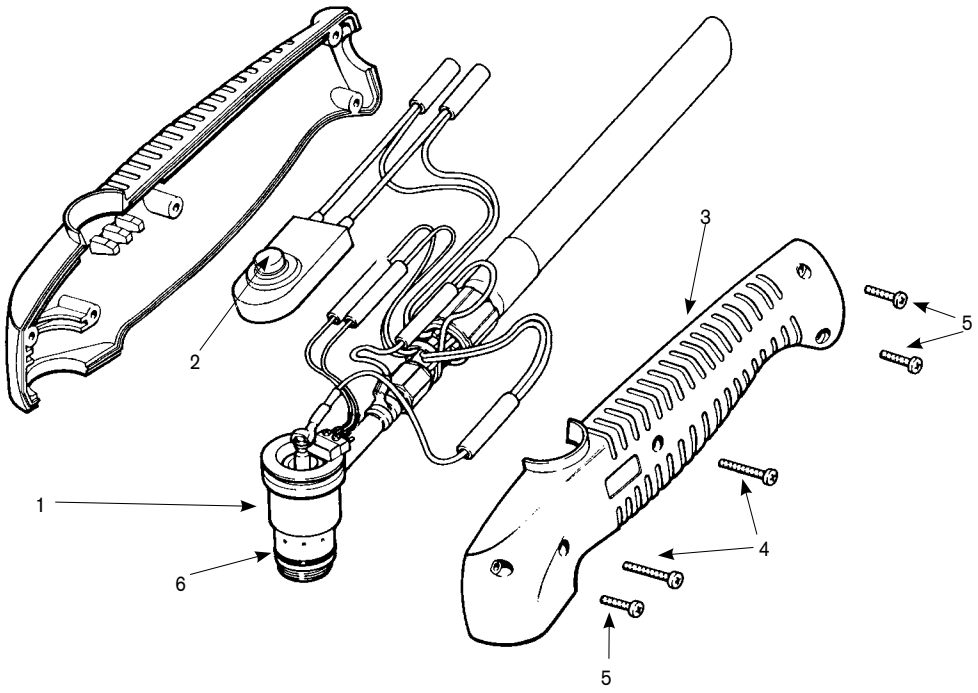
Extended* consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	120504	020382	220013

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

PAC110 hand torch assembly



Assembly

	Part number	Description
	070057*	PAC110 hand torch assembly with 4.5 m (15') leads
	070058*	PAC110 hand torch assembly with 7.6 m (25') leads
	070779*	PAC110T hand torch replacement with 6.1 m (20') 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, 4.5 m (15')
	029257	Torch leads, 7.6 m (25')
	060169	Work lead with clamp, 4.5 m (15')

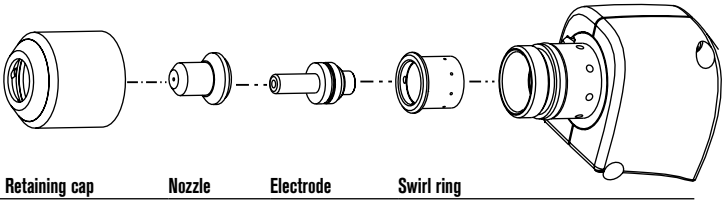
*Assembly includes consumables.

Hypertherm®

powermax380

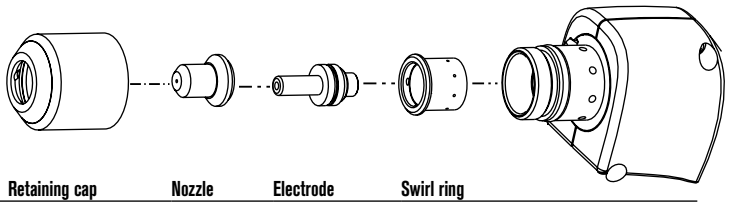
PAC110T hand torch consumables

Extended* consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	120504	020382	220013

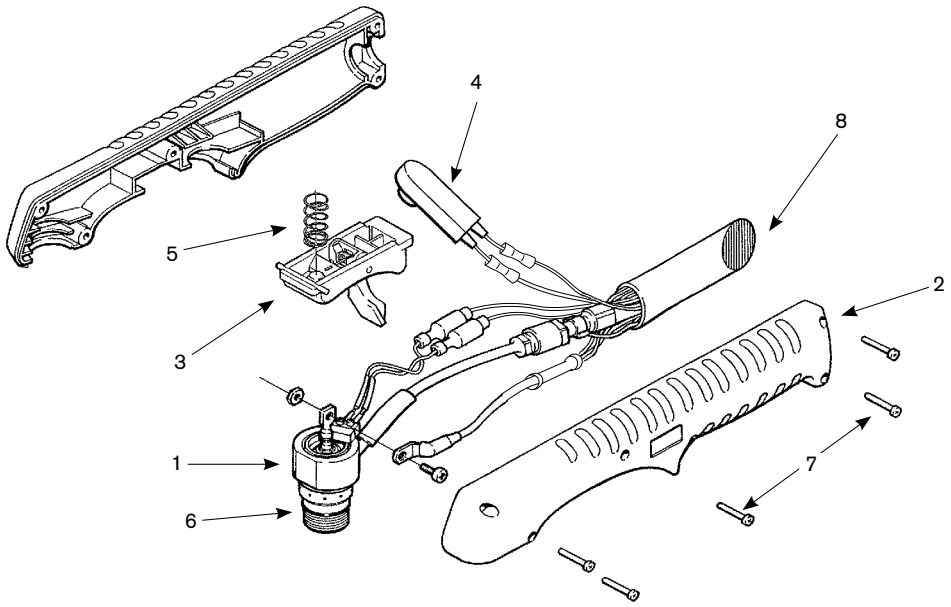
FineCut consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	220331	020382	220013

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

PAC110T hand torch assembly



Assembly

	Part number	Description
	070071*	PAC110T hand torch assembly with 6.1 m (20') 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, 6.1 m (20')
	060169	Work lead with clamp, 4.5 m (15')

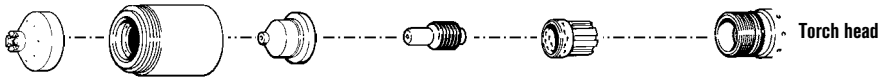
*Assembly includes consumables.

Hypertherm®

powermax600

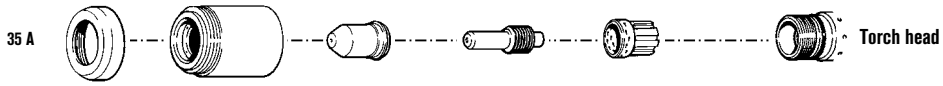
PAC123T hand torch consumables

Shielded consumables



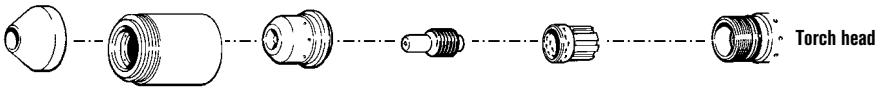
Shield	Retaining cap	Nozzle	Electrode	Swirl ring
120828	120600	120826	120573	120576

Unshielded* consumables



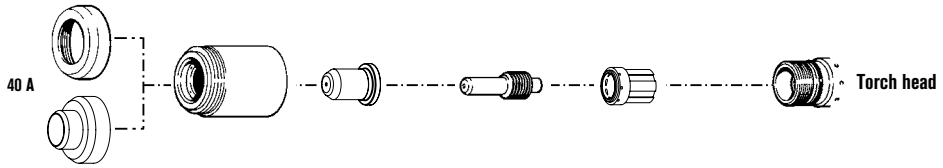
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A	120303	120600	120606	120574	120576

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

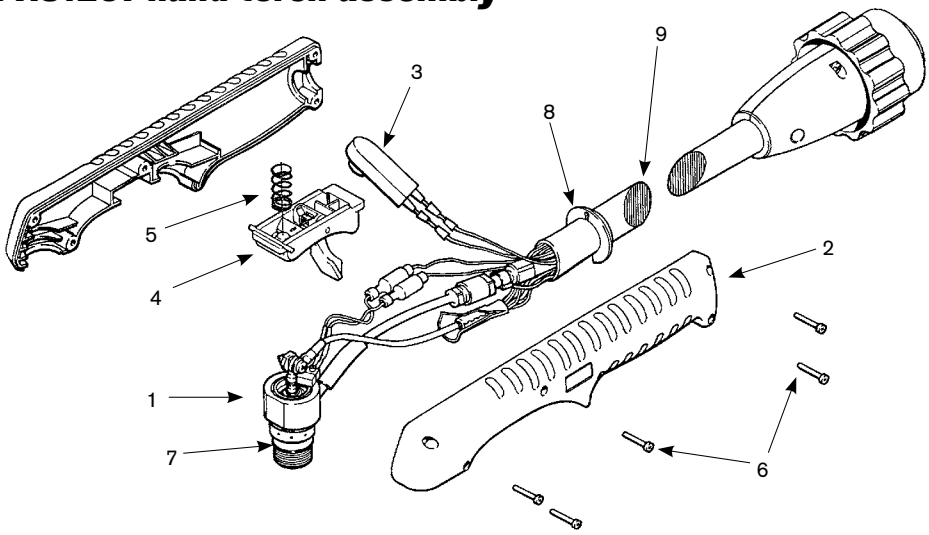
*In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.
**CE shield for use in countries requiring CE, CCC, GOST marks.

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

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC123T hand torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 89 or Appendix page 101 for more details

Assembly

	Part number	Description
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, 4.5 m (15')
	128379	Work lead with clamp, 15.2 m (50')

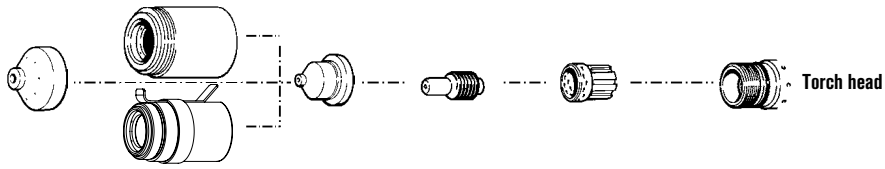
For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

Hypertherm®

powermax600

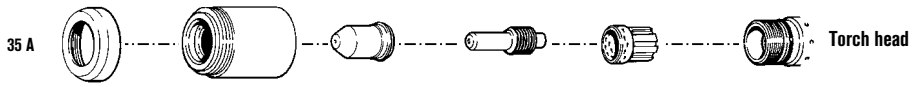
PAC123M machine torch consumables

Shielded consumables



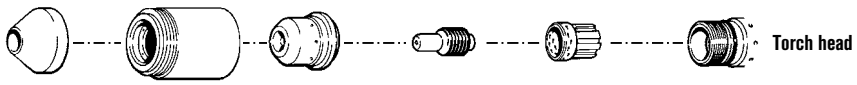
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
	120827	120600	120826	120573	120576
Ohmic		120964			

Unshielded consumables



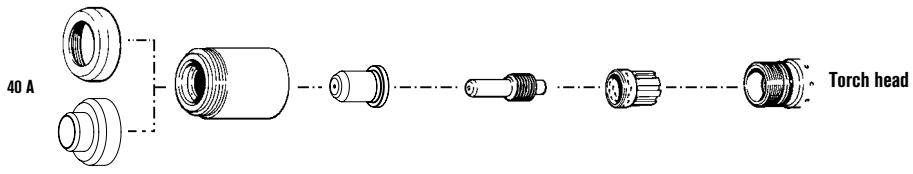
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A	120303	120600	120606	120574	120576

Gouging consumables



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

FineCut consumables



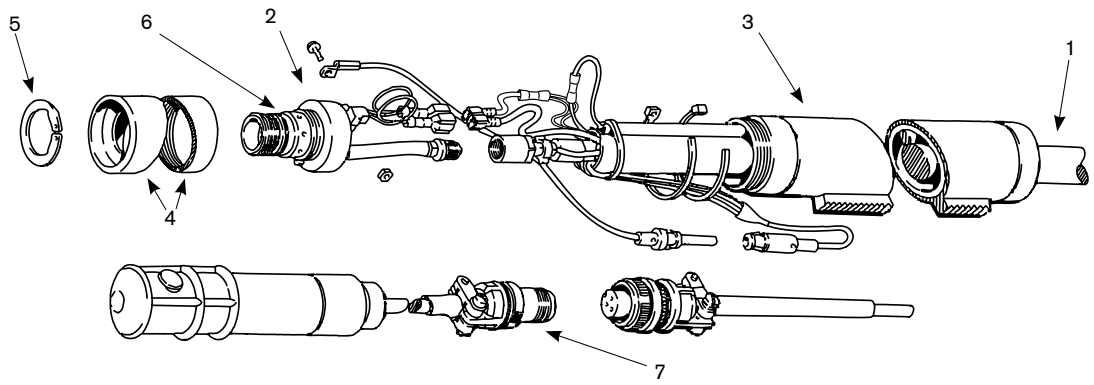
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	120576
40 A CE	220326	120600	220330	120574	120576

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

For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC123M torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 91 or Appendix page 101 for more details.

Assembly

	Part number	Description
3.	020620	Torch positioning sleeve
4.	120613	Torch sleeve
5.	027599	Snap ring
6.	044016	O-ring, Buna – N 90 Duro
7.	028714	On/Off pendant, 7.6 m (25')
7.	128061	On/Off pendant, 15.2 m (50')
7.	128062	On/Off pendant, 22.8 m (75')
	123375	Work lead with clamp, 4.5 m (15')
	128379	Work lead with clamp, 15.2 m (50')

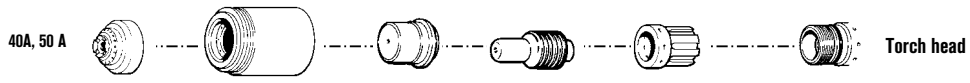
For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

Hypertherm®

powermax800

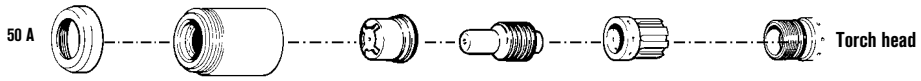
PAC121TS/125T hand torch consumables

Shielded consumables



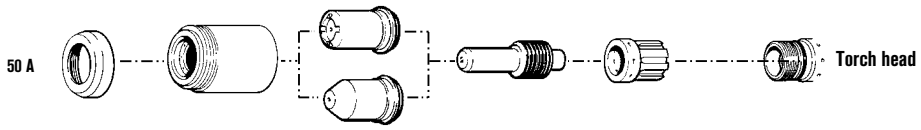
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120601	120600	120438	120573	020361
50 A	120601	120600	120282	120573	020361

Unshielded* consumables



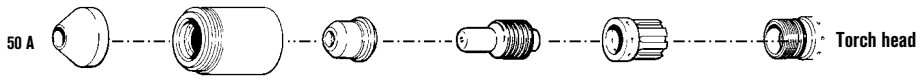
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	020395	120573	020361

Extended consumables



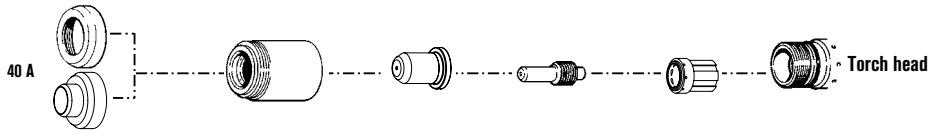
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	120304	120574	020361
Pipe saddle	120303	120600	120305	120574	020361

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

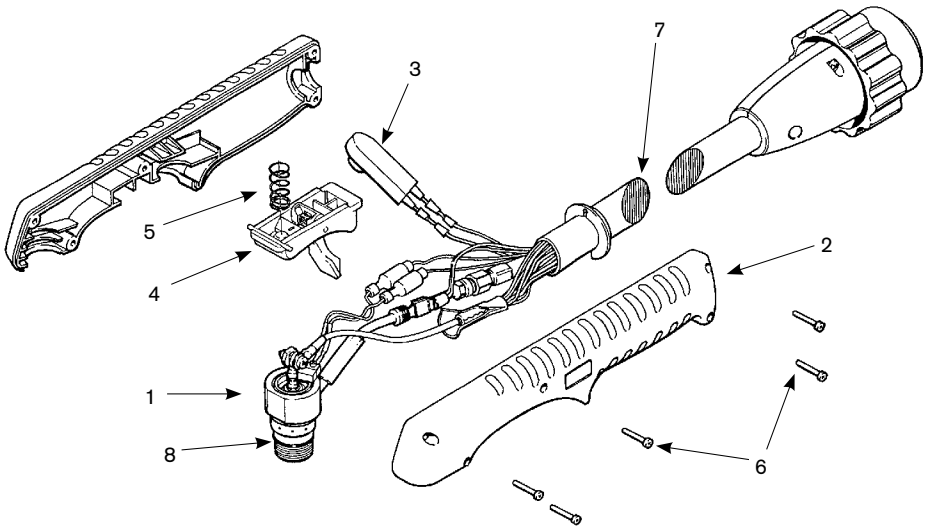
*In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.
**CE shield for use in countries requiring CE, CCC, GOST marks.

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.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC121TS/125T hand torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 89 or Appendix page 102 for more details.

Assembly

	Part number	Description
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)
8.	044016	O-ring, Buna – N 90 Duro
	023922	Work lead with clamp, 6.1 m (20')
	028907	Work lead with clamp, 15.2 m (50')

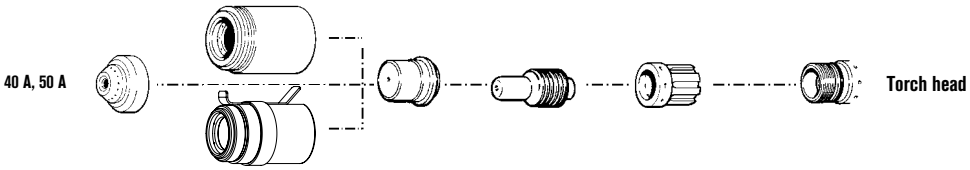
For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

Hypertherm®

powermax800

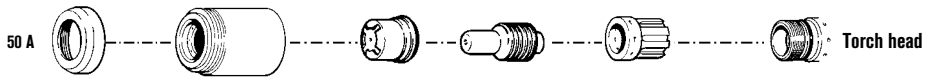
PAC121M/125M machine torch consumables

Shielded consumables



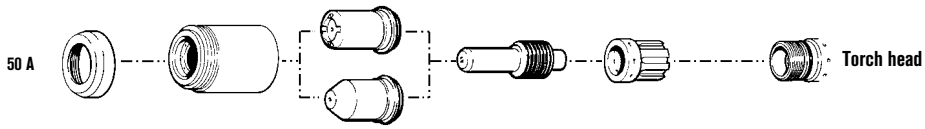
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120602	120600	120438	120573	020361
50 A	120602	120600	120282	120573	020361
Ohmic		120964			

Unshielded consumables



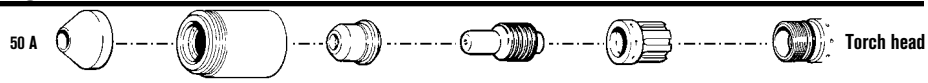
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	020395	120573	020361

Extended consumables



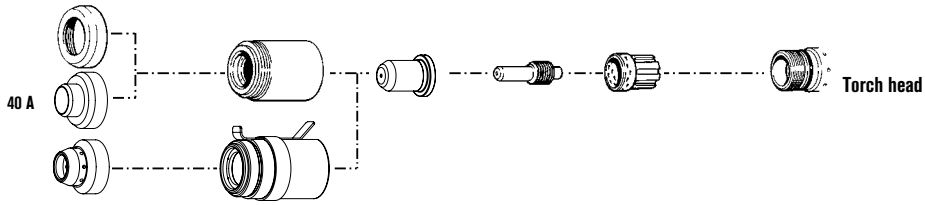
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
50 A	120303	120600	120304	120574	020361
Pipe saddle	120303	120600	120305	120574	020361

Gouging consumables



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

FineCut consumables



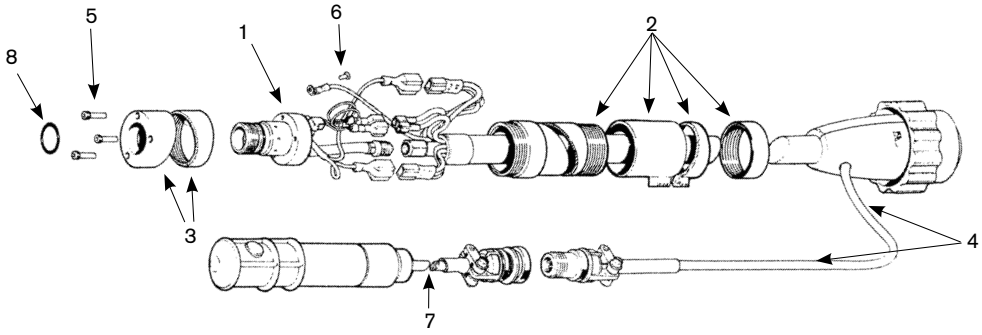
	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	120576
40 A CE	220326	120600	220330	120574	120576
Ohmic	220403	120964			

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.

For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC121M/PAC125M machine torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 91 or Appendix page 102 for more details.

Assembly – PAC121M machine torch assembly

	Part number	Description
2.	020620	Torch position sleeve
3.	020559	Torch sleeve
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, 7.6 m (25')
7.	028462	On/Off pendant, 15.2 m (50')
7.	028463	On/Off pendant, 22.8 m (75')
8.	044016	O-ring: Buna 90 Duro .614 x .070
	023922	Work lead with clamp, 6.1 m (20')
	028907	Work lead with clamp, 15.2 m (50')

Assembly – PAC125M machine torch assembly

	Part number	Description
2.	020620	Torch position sleeve
3.	120613	Torch sleeve
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, 7.6 m (25')
7.	128061	On/Off pendant, 15.2 m (50')
7.	128062	On/Off pendant, 22.8 m (75')
8.	044016	O-ring: Buna 90 Duro .614 x .070
	023922	Work lead with clamp, 6.1 m (20')
	028907	Work lead with clamp, 15.2 m (50')

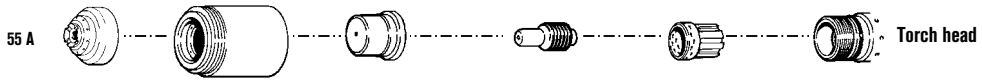
For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

Hypertherm®

powermax900

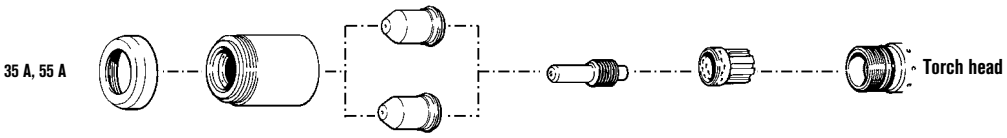
PAC125T hand torch consumables

Shielded consumables



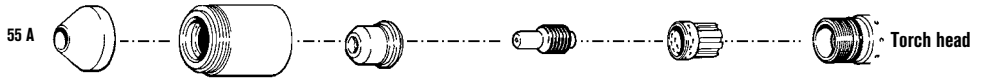
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120601	120600	120577	120573	120576

Unshielded* consumables



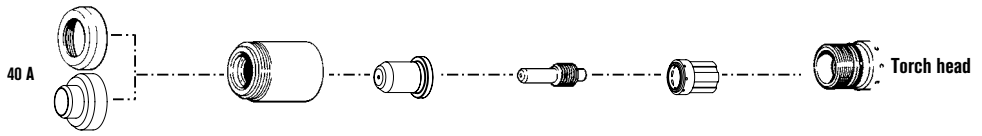
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A Pipe saddle	120303	120600	120606	120574	120576
55 A Pipe saddle	120303	120600	120578	120574	120576

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

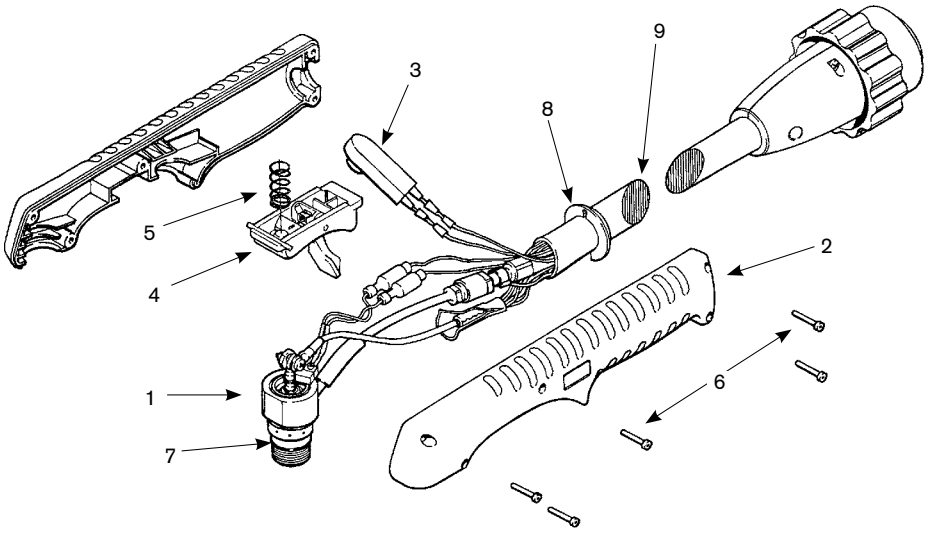
*In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.
**CE shield for use in countries requiring CE, CCC, GOST marks.

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

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC125T hand torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 89 or Appendix page 102 for more details.

Assembly

	Part number	Description
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
	023922	Work lead with clamp, 6.1 m (20')
	028907	Work lead with clamp, 15.2 m (50')

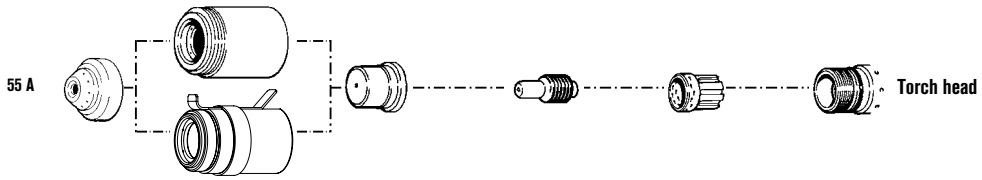
For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

Hypertherm®

powermax900

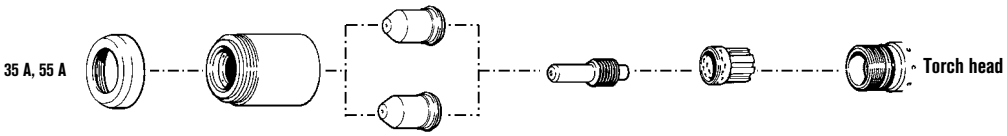
PAC125M machine torch consumables

Shielded consumables



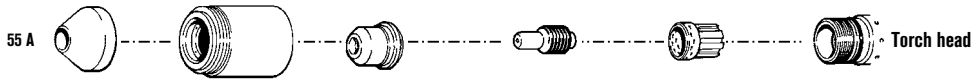
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
55 A	120602	120600	120577	120573	120576
Ohmic		120964			

Unshielded consumables



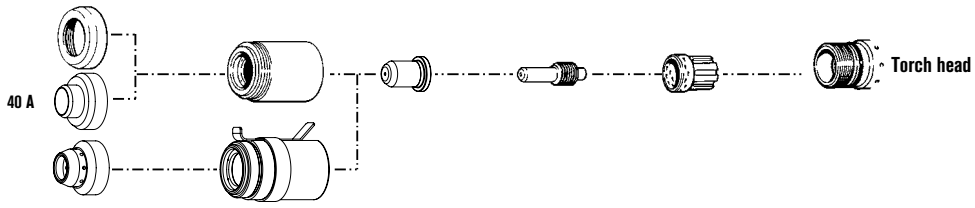
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
35 A Pipe saddle	120303	120600	120606	120574	120576
55 A Pipe saddle	120303	120600	120578	120574	120576

Gouging consumables



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

FineCut consumables



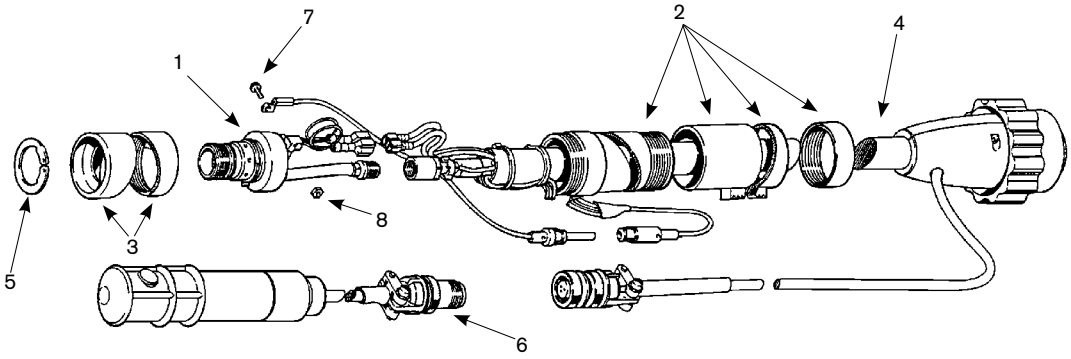
	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120303	120600	220330	120574	120576
40 A CE	220326	120600	220330	120574	120576
Ohmic	220403	120964			

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

For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

PAC125M machine torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 91 or Appendix page 102 for more details.

Assembly

	Part number	Description
2.	020620	Torch positioning sleeve
3.	120613	Torch sleeve
5.	027599	Snap ring
6.	028714	On/Off pendant, 7.6 m (25')
6.	128061	On/Off pendant, 15.2 m (50')
6.	128062	On/Off pendant, 22.8 m (75')
7.	075504	Screw, 4-40 x 5/16"
8.	075503	Locknut, 4-40
	023922	Work lead with clamp, 6.1 m (20')
	028907	Work lead with clamp, 15.2 m (50')

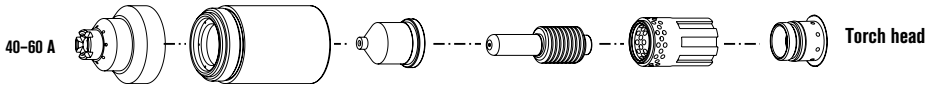
For improved performance retrofit with a Duramax MRT retrofit torch (see page 91).

Hypertherm®

powermax1000® G3 SERIES™

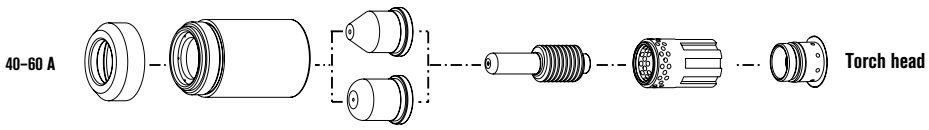
T60 hand torch consumables

Shielded consumables



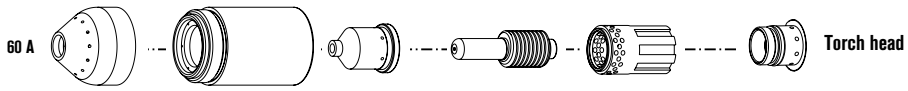
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929	120928	120932*	120926*	120925
60 A	120929	120928	120931*	120926*	120925

Unshielded** consumables



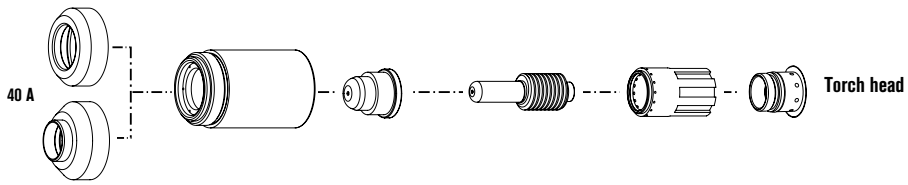
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

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

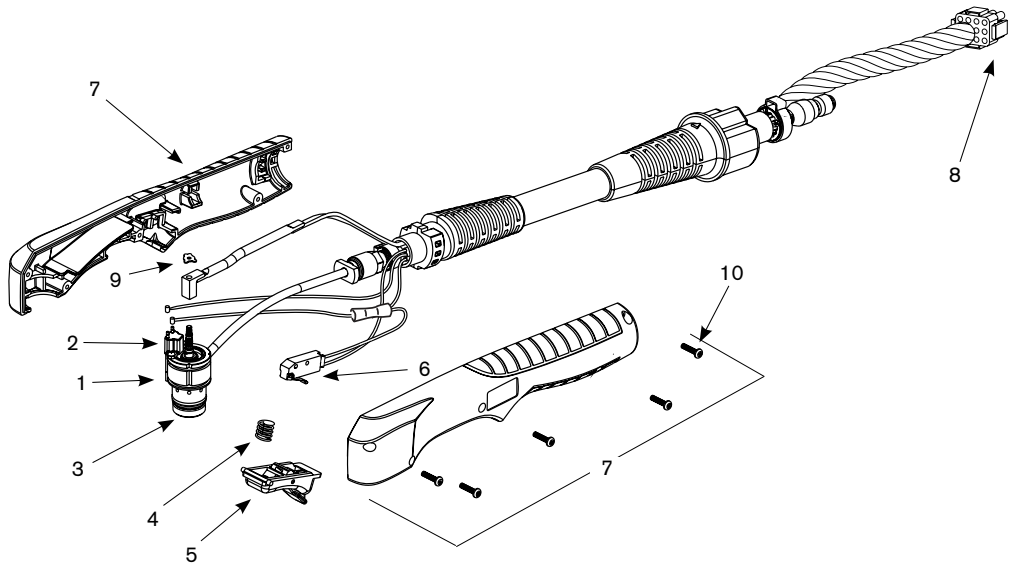
**In countries following CE standards, unshielded consumables may only be used in mechanized torch applications.
***CE shield for use in countries requiring CE, CCC, GOST marks.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T60 hand torch assembly



Note: T60 hand torches for the Powermax1000 have been obsoleted. Original consumables will remain available for this system. Available torch options are the Duramax retrofit assembly or T100 torch assembly. See Appendix pages 102 and 103 for more details.

Assembly

	Part number	Description
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.	128638	Kit: ETR connector repair (regional repair centers only)
9.	027889	Retaining clip
	123645	Work lead with clamp, 6.1 m (20')
	128717	Work lead with clamp, 15.2 m (50')
10.	075714	Torch handle replacement screws

*Assembly does not includes consumables.

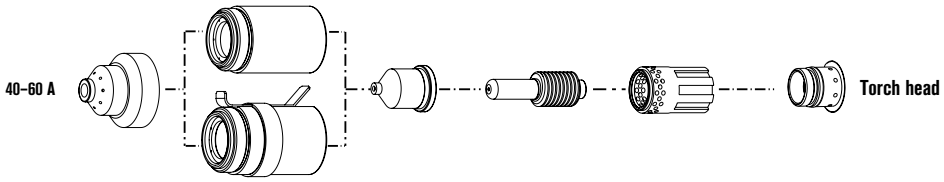
For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

Hypertherm®

powermax1000® G3 SERIES™

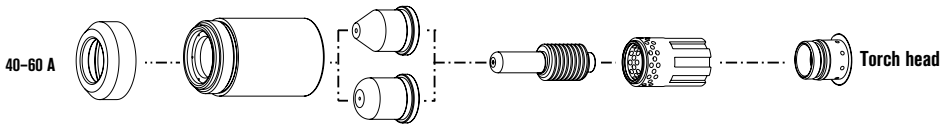
T60M machine torch consumables

Shielded consumables



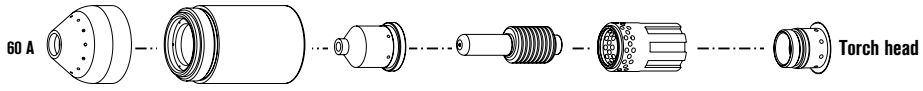
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932*	120926*	120925
60 A	120930	120928	120931*	120926*	120925
Ohmic		220061			

Unshielded consumables



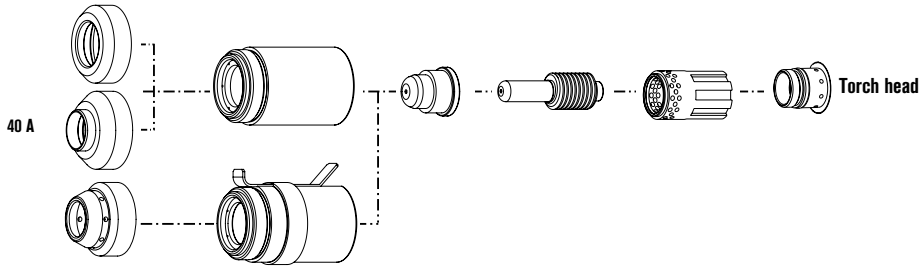
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

Gouging consumables



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

FineCut consumables

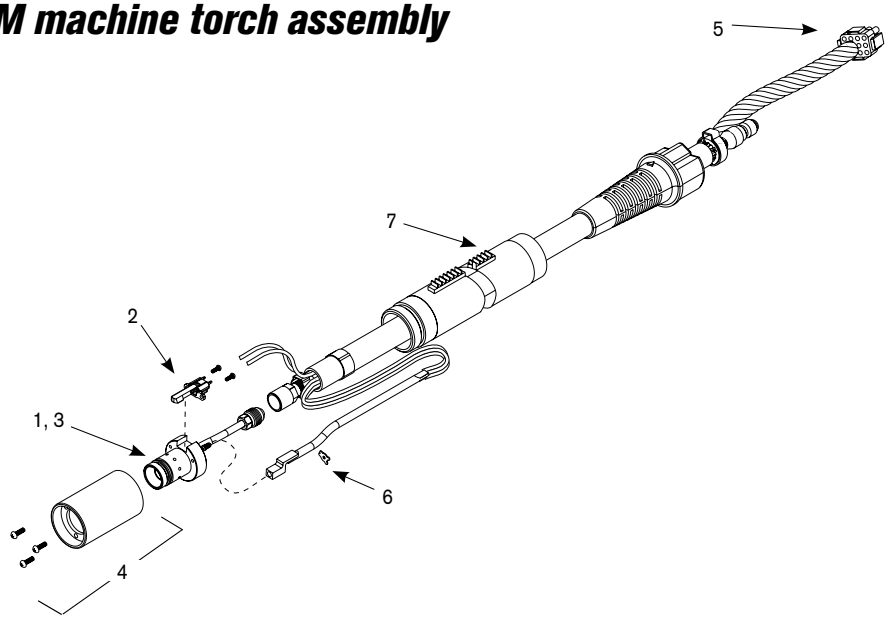


	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T60M machine torch assembly



Note: T60M torches for the Powermax1000 have been obsoleted. Original consumables will remain available for this system. Available torch options are the Duramax retrofit assembly or T100 torch assembly. See Appendix pages 102 and 103 for more details.

Assembly

	Part number	Description
	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.	128638	Kit: ETR connector repair (regional repair centers only)
6.	027889	Retaining clip
7.	128710	Kit: T60/T80M positioning sleeve replacement
	128650	On/Off pendant for machine torch, 7.6 m (25')
	128651	On/Off pendant for machine torch, 15.2 m (50')
	128652	On/Off pendant for machine torch, 22.8 m (75')
	123645	Work lead with clamp, 6.1 m (20')
	128717	Work lead with clamp, 15.2 m (50')

*Assembly does not includes consumables.

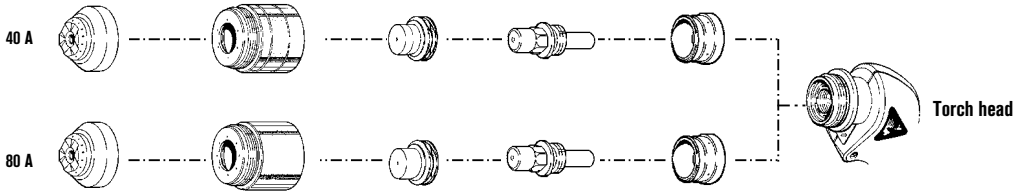
For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

Hypertherm®

powermax1100

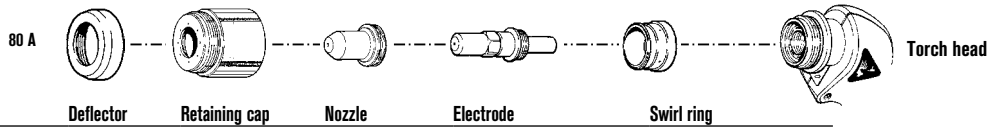
PAC135T hand torch consumables

Shielded consumables



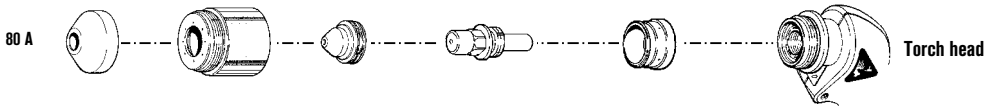
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120475	120520	120515	120473	120474
80 A	120475	120483	120476	120473	120474

Extended* consumables



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

Gouging consumables

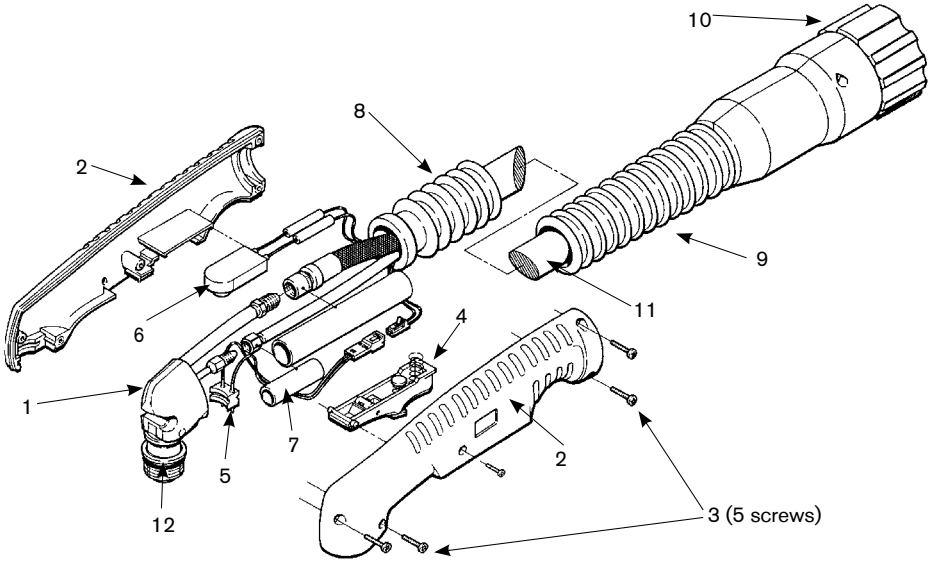


	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
80 A	120510	120483	120509	120473	120474

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

For improved performance, retrofit with the RT80 torch (see page 97 or the Appendix).

PAC135T hand torch assembly



Note: PAC torches for the Powermax1100 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a RT80 torch assembly will be available. RT80 torches require the use of new consumables. See page 97 or Appendix page 103 for more details.

Assembly

	Part number	Description
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, 7.6 m (25')
11.	129560	Torch lead, 15.2 m (50')
12.	026020	O-ring, silicon
	128145	Work lead with clamp, 15.2 m (50')
12.	026020	O-ring, silicon
	128145	Work lead with clamp, 15.2 m (50')

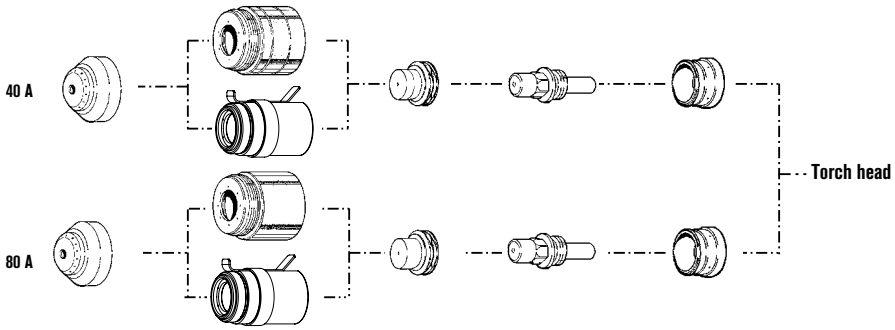
For improved performance, retrofit with the RT80 torch (see page 97 or the Appendix).

Hypertherm®

powermax1100

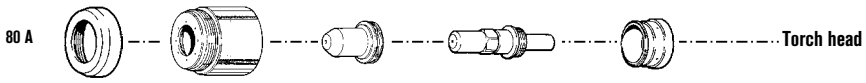
PAC135M machine torch consumables

Shielded consumables



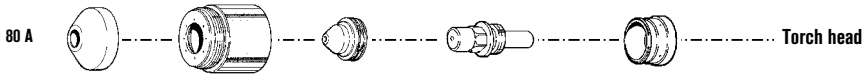
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120516	120520	120515	120473	120474
80 A	120516	120483	120476	120473	120474
Ohmic		120968			

Extended consumables



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

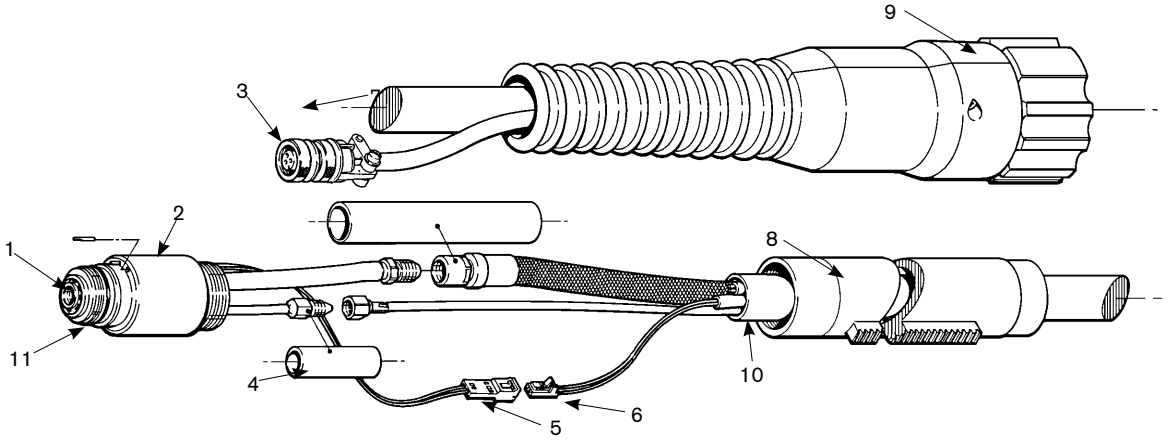
Gouging consumables



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

For improved performance, retrofit with the RT80M torch (see page 99 or the Appendix).

PAC135M machine torch assembly



Note: PAC torches for the Powermax1100 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a RT80 torch assembly will be available. RT80 torches require the use of new consumables. See page 89 or Appendix page 103 for more details.

Assembly

	Part number	Description
1.	108040	Contact: Cap-on sensor switch
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
11.	026020	O-ring, silicon
	028714	On/Off pendant, 7.6 m (25')
	128061	On/Off pendant, 15.2 m (50')
	128062	On/Off pendant, 22.8 m (75')
	128145	Work lead with clamp, 15.2 m (50')

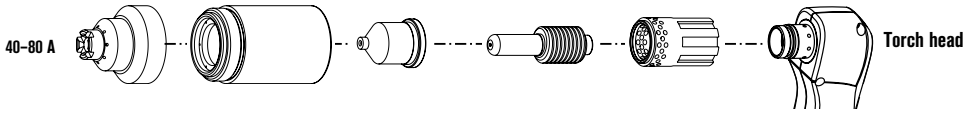
For improved performance, retrofit with the RT80M torch (see page 99 or the Appendix).

Hypertherm®

powermax1250® G3 SERIES™

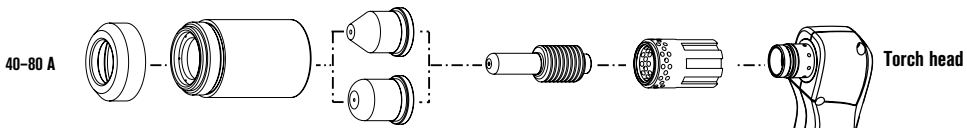
T80 hand torch consumables

Shielded consumables



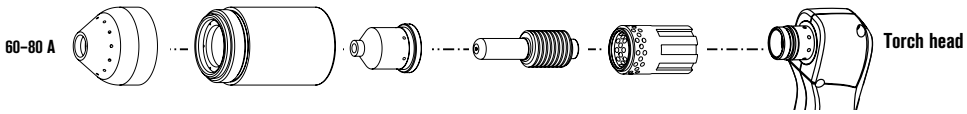
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929*	120928	120932*	120926*	120925
60 A	120929*	120928	120931*	120926*	120925
80 A	120929*	120928	120927*	120926*	120925

Unshielded** consumables



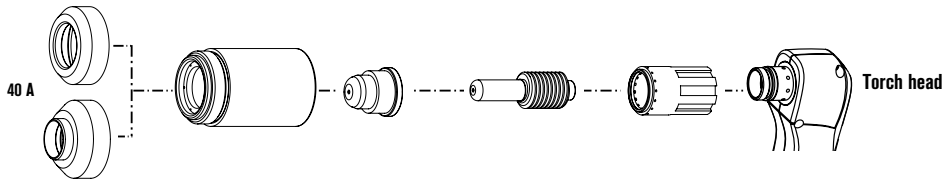
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

Gouging consumables



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

FineCut consumables



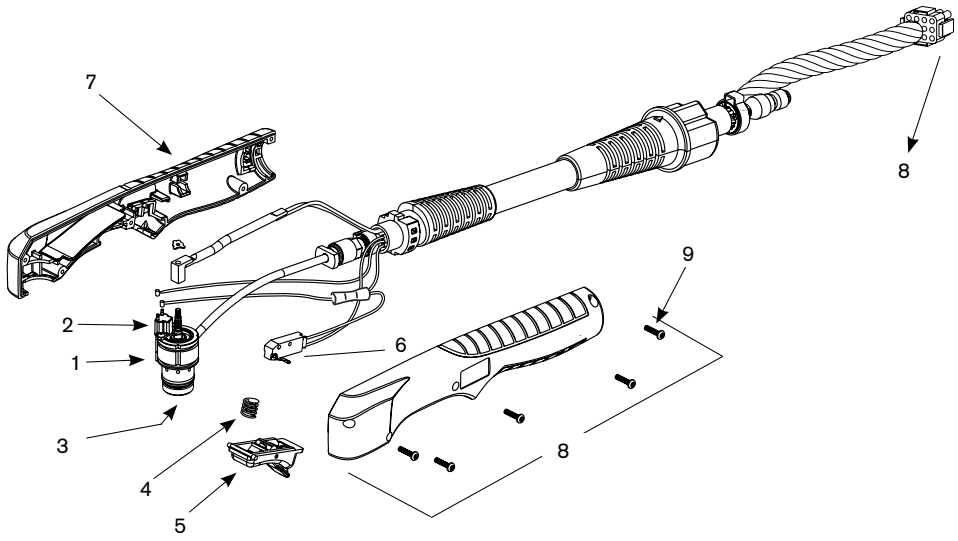
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE* **	220325	120928	220329	120926*	220327

**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.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T80 hand torch assembly



Note: T80 torch has been obsoleted for the Powermax1250. The original consumables will remain available for this system. Available torch options are the Duramax retrofit assembly or T100 torch assembly. See Appendix pages 103 and 104 for more details.

Assembly

	Part number	Description
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.	128638	Kit: ETR connector repair (regional repair centers only)
	123106	Work lead with clamp, 6.1 m (20')
	128718	Work lead with clamp, 15.2 m (50')
9.	075714	Torch handle replacement screws

*Assembly does not include consumables.

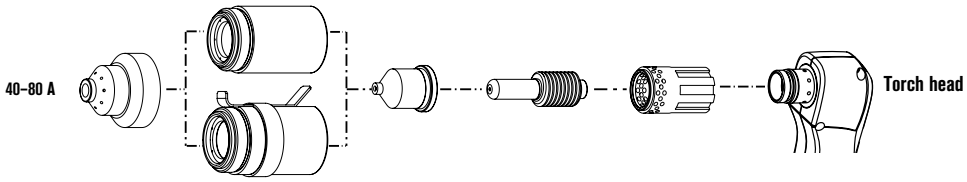
For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

Hypertherm®

powermax1250® G3 SERIES™

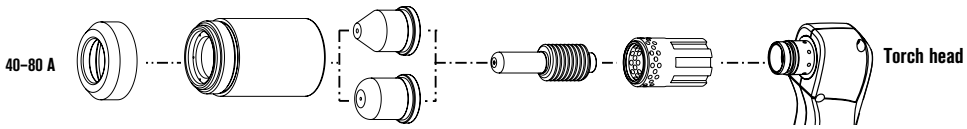
T80M machine torch consumables

Shielded consumables



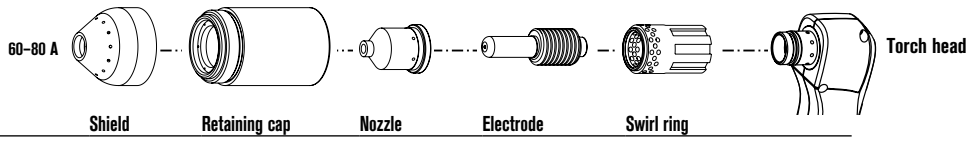
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
Ohmic		220061			

Unshielded consumables



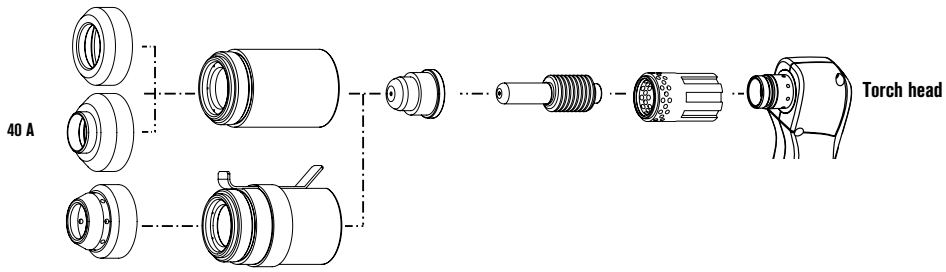
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

Gouging consumables



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

FineCut consumables

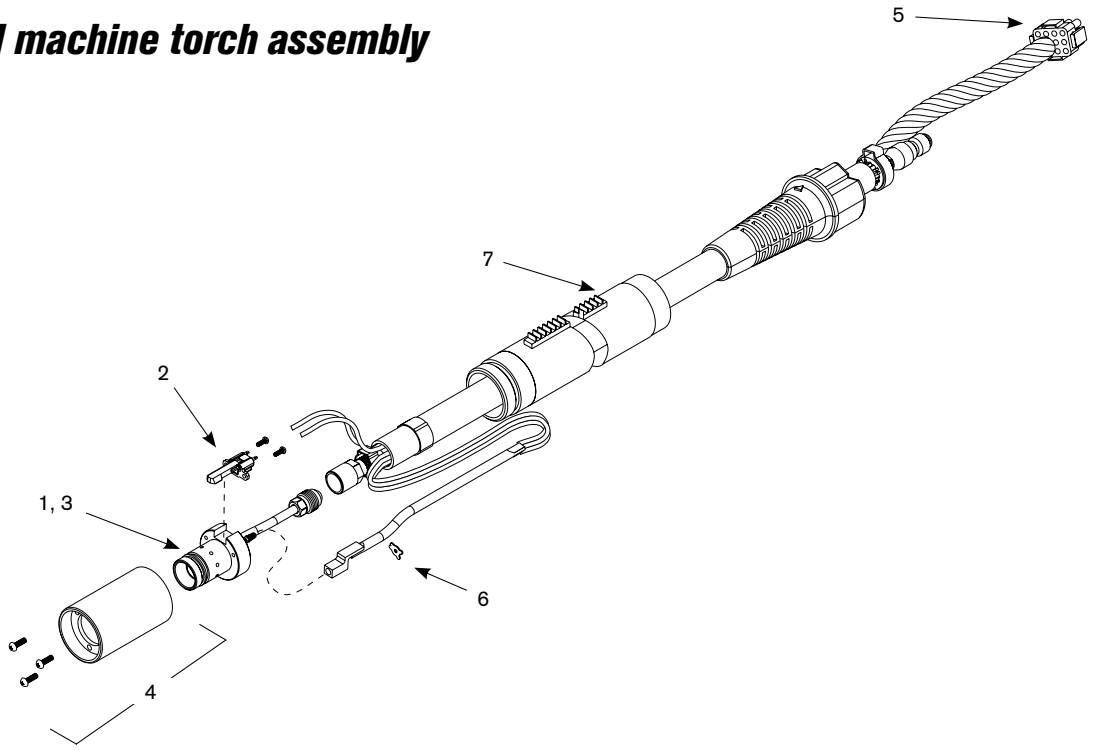


	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T80M machine torch assembly



Note: T80M torches have been obsoleted for the Powermax1250 system. Original consumables for this system will remain available. Duramax retrofit torches and T100 torches are available for use with this system. See Appendix pages 103 and 104 for more details.

Assembly

	Part number	Description
	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.	128638	Kit: ETR connector repair (regional repair centers only)
6.	027889	Retaining clip
7.	128710	Kit: T60/T80M positioning sleeve replacement
	128650	On/Off pendant for machine torch, 7.6 m (25')
	128651	On/Off pendant for machine torch, 15.2 m (50')
	128652	On/Off pendant for machine torch, 22.8 m (75')
	123106	Work lead with clamp, 6.1 m (20')
	128145	Work lead with clamp, 15.2 m (50')
	128718	Work lead with clamp, 15.2 m (50')

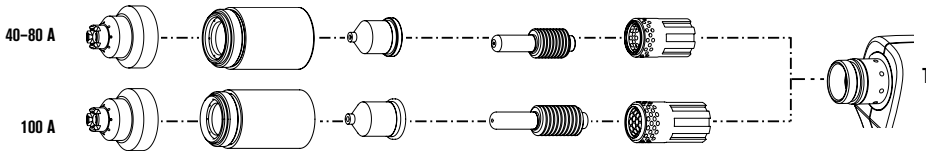
For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

Hypertherm®

powermax1650® G3 SERIES™

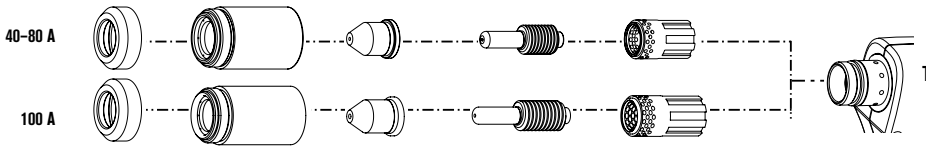
T100 hand torch consumables

Shielded consumables



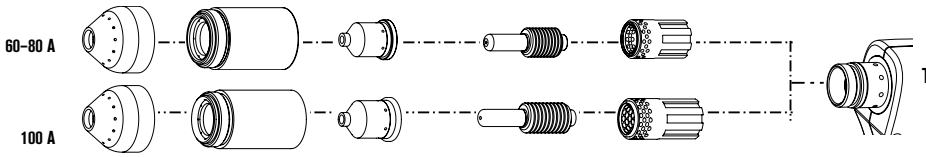
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929*	120928	120932*	120926*	120925
60 A	120929*	120928	120931*	120926*	120925
80 A	120929*	120928	120927*	120926*	120925
100 A	220065*	220048	220011*	220037*	220051

Unshielded** consumables



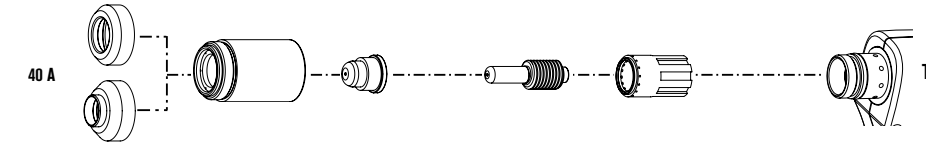
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051

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



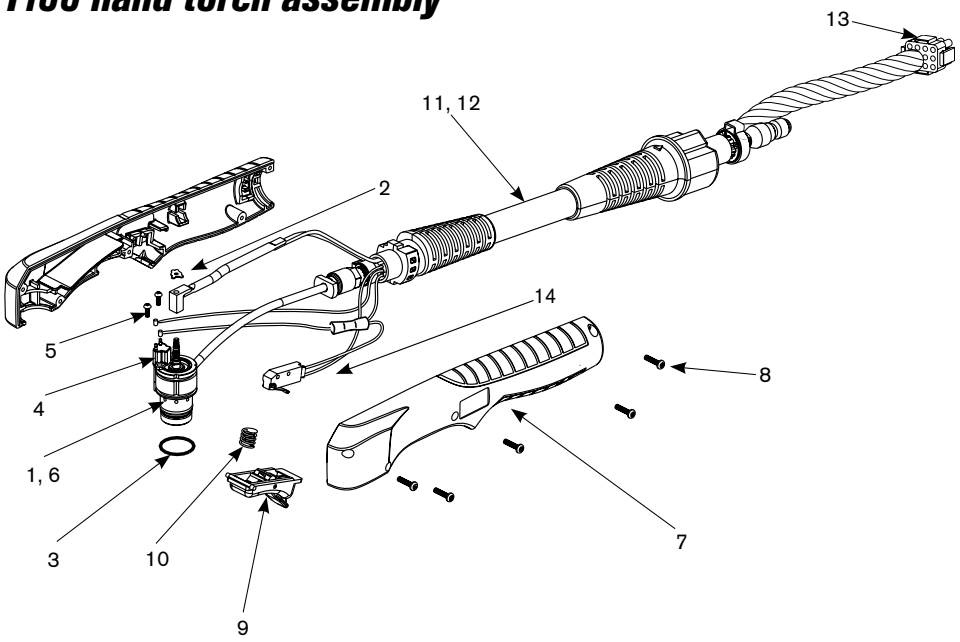
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE* **	220325	120928	220329	120926*	220327

**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.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T100 hand torch assembly



Assembly

	Part number	Description
	059498*	T100 hand torch assembly with 7.6 m (25') leads
	059499*	T100 hand torch assembly with 15.2 m (50') leads
	059500*	T100 hand torch assembly with 22.8 m (75') 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, 7.6 m (25')
12.	128752	Kit: T100 lead replacement, 15.2 m (50')
13.	128772	Kit: ETR connector repair (regional repair centers only)
14.	128642	Kit: Start switch replacement
	123654	Work lead with clamp, 6.1 m (20')
	123655	Work lead with clamp, 15.2 m (50')

*Assembly does not include consumables.

This torch is also compatible for the Powermax1250 and Powermax1000.

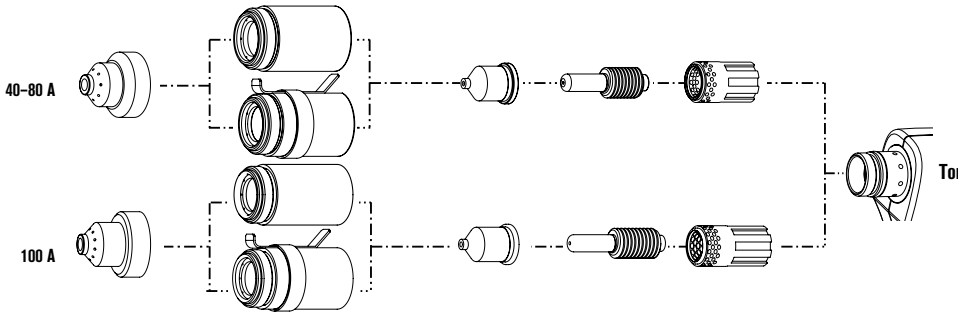
For improved performance retrofit with a Duramax HRT retrofit torch (see page 85).

Hypertherm®

powermax1650® G3 SERIES™

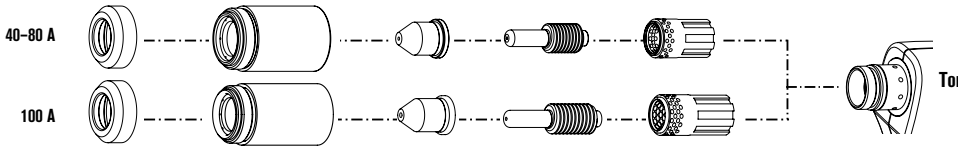
T100M machine torch consumables

Shielded consumables



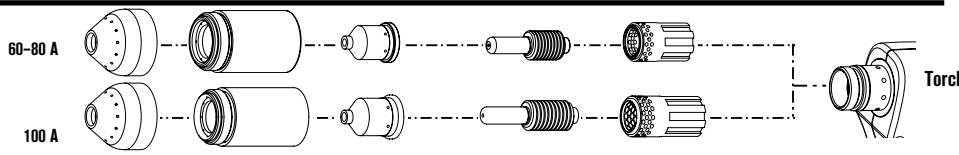
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
100 A	220047*	220048	220011*	220037*	220051
40–80 A Ohmic		220061			
100 A Ohmic		220206			

Unshielded consumables



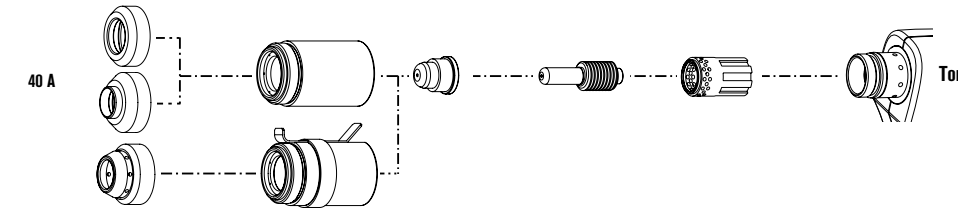
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051

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

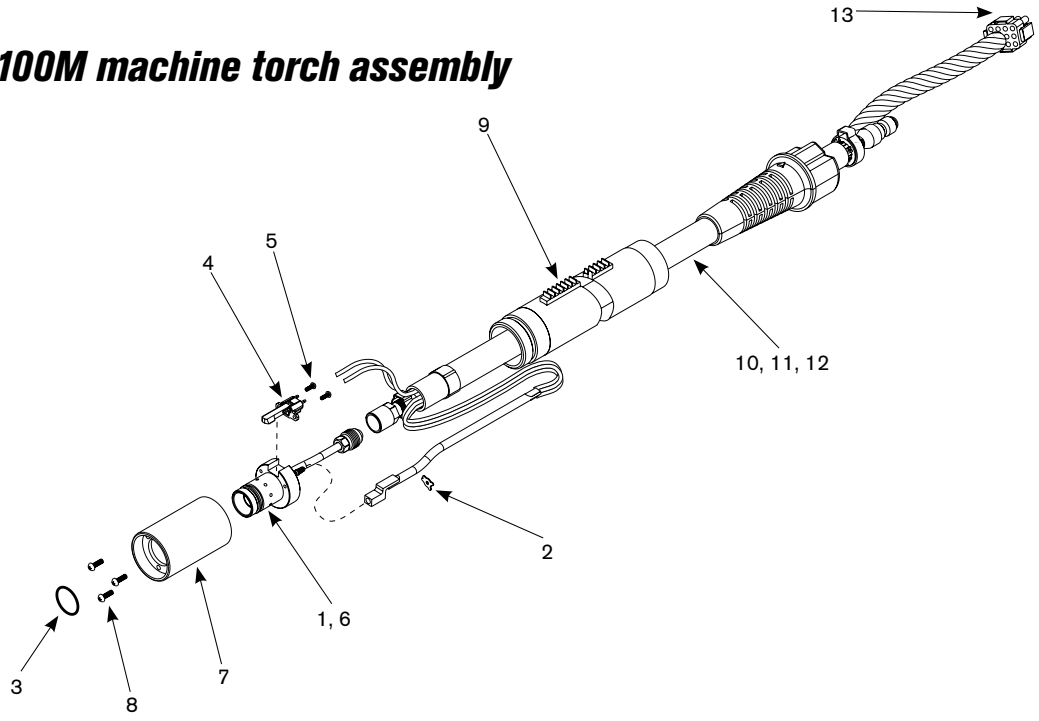


	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T100M machine torch assembly



Assembly

	Part number	Description
	059309*	Test torch with 1.8 m (6') 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, 7.6 m (25')
11.	128751	Kit: T100/T100M lead replacement, 10.7 m (35')
12.	128759	Kit: T100/T100M lead replacement, 15.2 m (50')
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, 7.6 m (25')
	128651	On/Off pendant for machine torch, 15.2 m (50')
	128652	On/Off pendant for machine torch, 22.8 m (75')
	123654	Work lead with clamp, 6.1 m (20')
	123655	Work lead with clamp, 15.2 m (50')

*Assembly does not include consumables.

This torch is also compatible with Powermax1000 and Powermax1250.

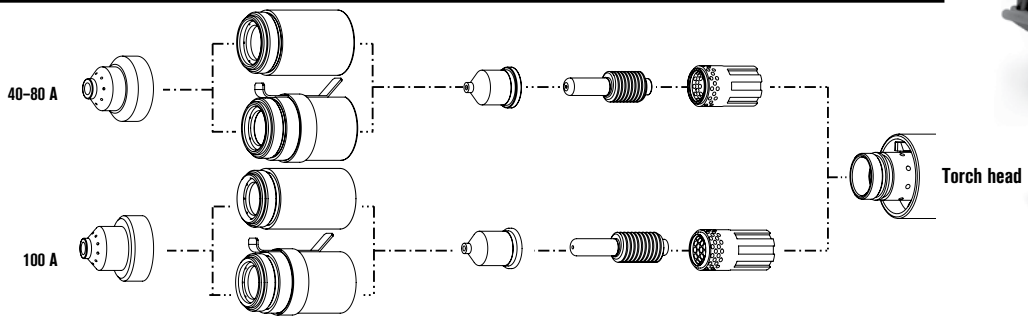
For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

Hypertherm®

powermax1650® G3 SERIES™

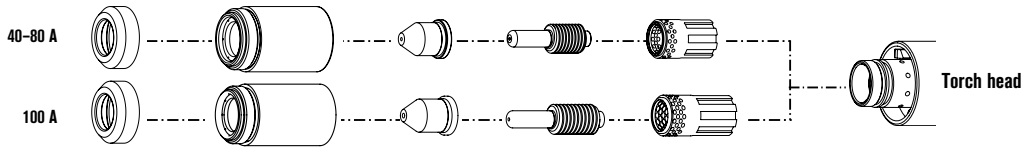
T100M-2 machine torch consumables

Shielded consumables



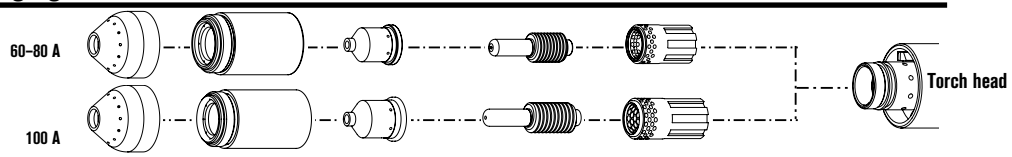
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930*	120928	120932*	120926*	120925
60 A	120930*	120928	120931*	120926*	120925
80 A	120930*	120928	120927*	120926*	120925
100 A	220047*	220048	220011*	220037*	220051
40–80 A Ohmic		220061			
100 A Ohmic		220206			

Unshielded* consumables



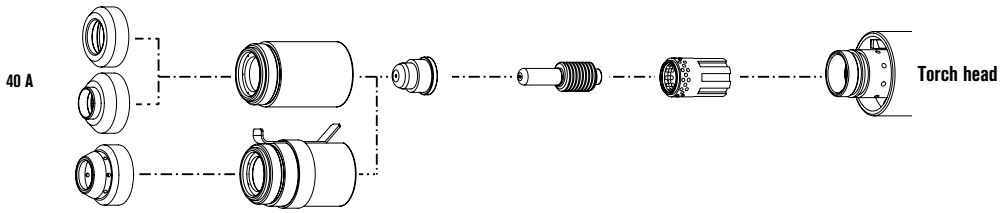
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925
100 A	120979	220048	220064	220037*	220051

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



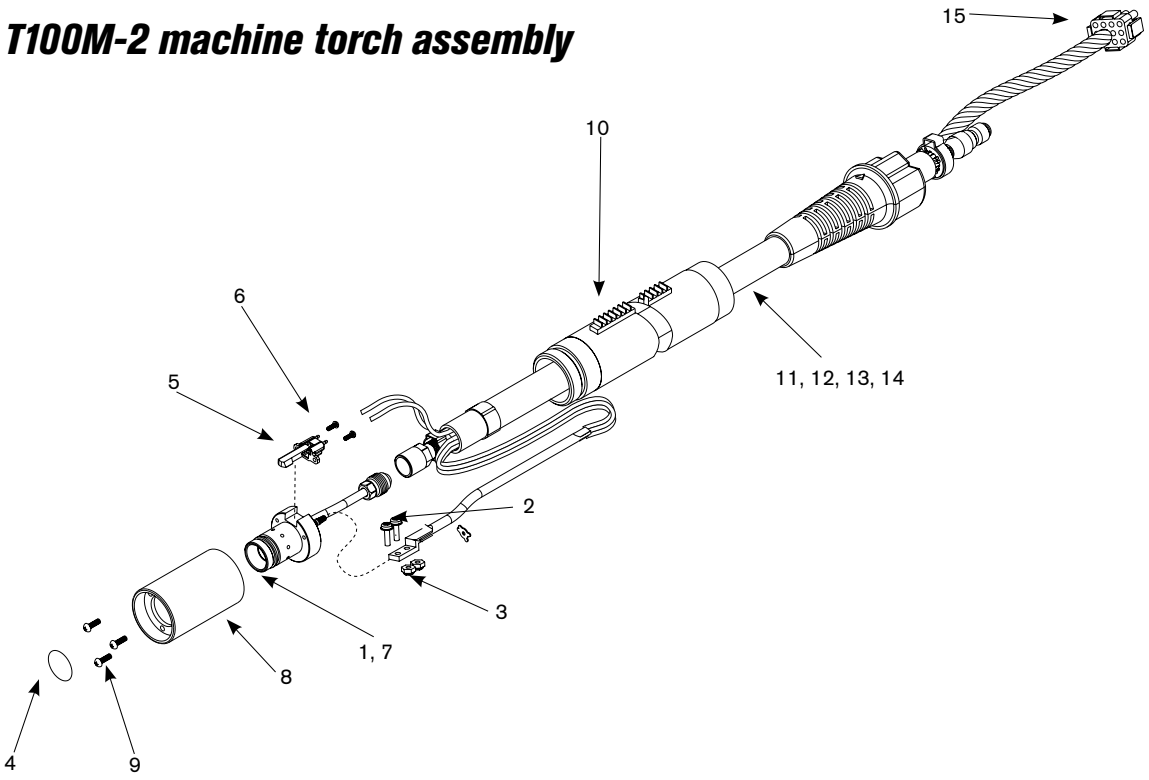
	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

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

For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

T100M-2 machine torch assembly



Assembly

	Part number	Description
	059501*	T100M-2 machine torch assembly with 7.6 m (25') leads
	059502*	T100M-2 machine torch assembly with 10.7 m (35') leads
	059503*	T100M-2 machine torch assembly with 15.2 m (50') leads
	059504*	T100M-2 machine torch assembly with 22.8 m (75') 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, 7.6 m (25')
12.	228223	Kit: T100M-2 lead replacement, 10.7 m (35')
13.	228224	Kit: T100M-2 lead replacement, 15.2 m (50')
14.	228225	Kit: T100M-2 lead replacement, 22.8 m (75')
15.	128772	Kit: ETR connector repair (regional repair centers only)
	128645	Kit: Torch mounting (for reassembly after installation)

*Assembly does not include consumables.

This torch is also compatible with Powermax1000 and Powermax1250.

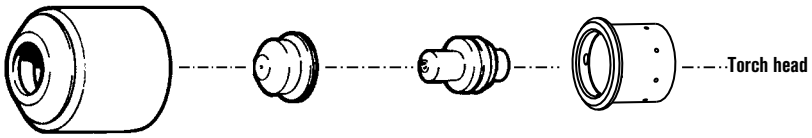
For improved performance retrofit with a Duramax MRT retrofit torch (see page 87).

Hypertherm®

MAX20

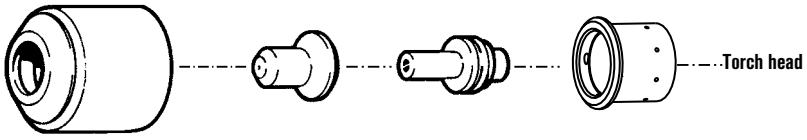
PAC110 hand torch consumables

Standard consumables



Retaining cap	Nozzle	Electrode	Swirl ring
220016	020299	020220	220013

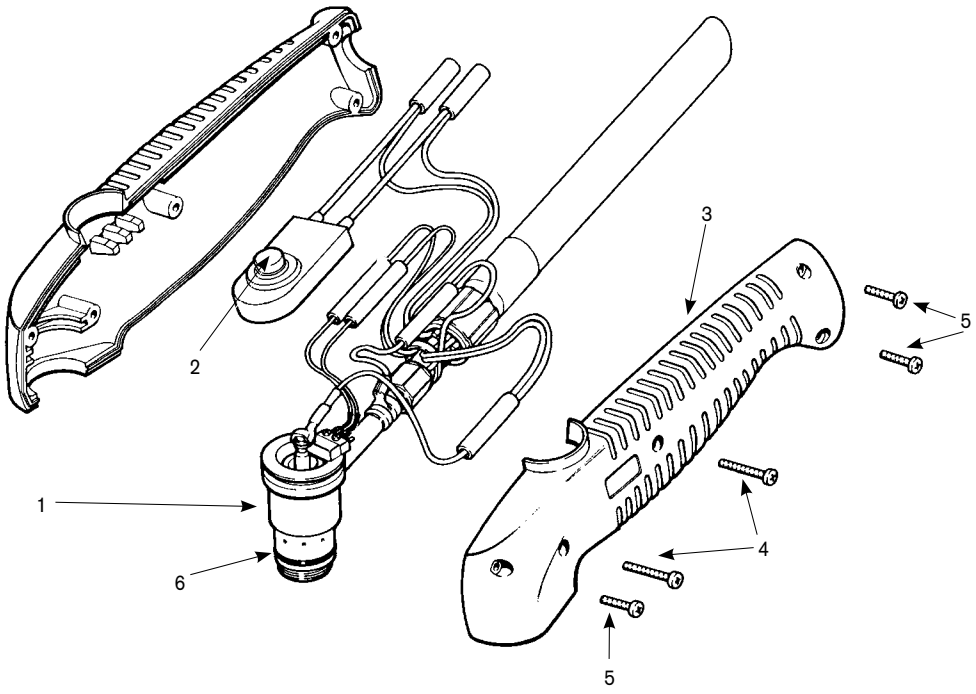
Extended* consumables



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.

PAC110 hand torch assembly



Assembly

	Part number	Description
	070003*	PAC110 torch assembly with 4.5 m (15') leads
	070014*	PAC110 torch assembly with 7.6 m (25') 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, 4.5 m (15')
	029257	Torch leads, 7.6 m (25')
	023269	Work lead with clamp, 4.5 m (15')

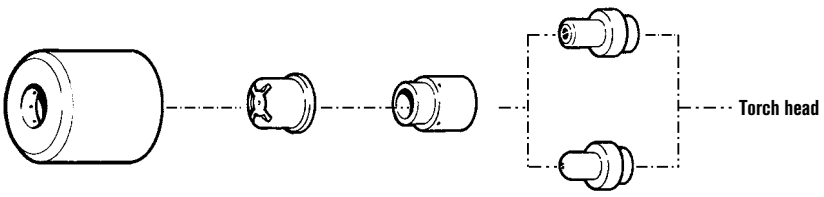
*Assembly includes consumables.

Hypertherm®

MAX40/HT40

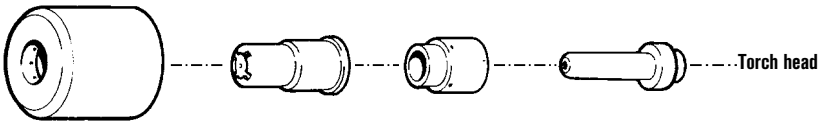
PAC140 hand torch consumables

Standard consumables



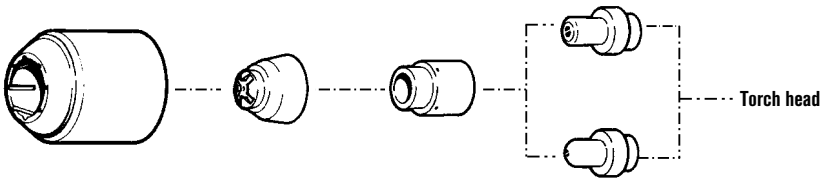
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020115	020101	020103
Nitrogen (N_2)	020104	020115	020101	020167

Extended consumables



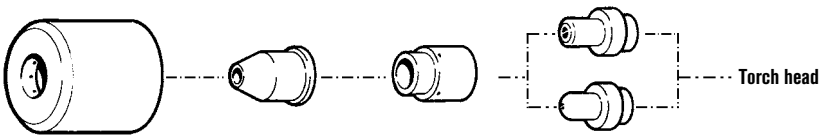
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020466	020101	020467

Tapered consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020200	020197	020101	020103
Nitrogen (N_2)	020200	020197	020101	020167

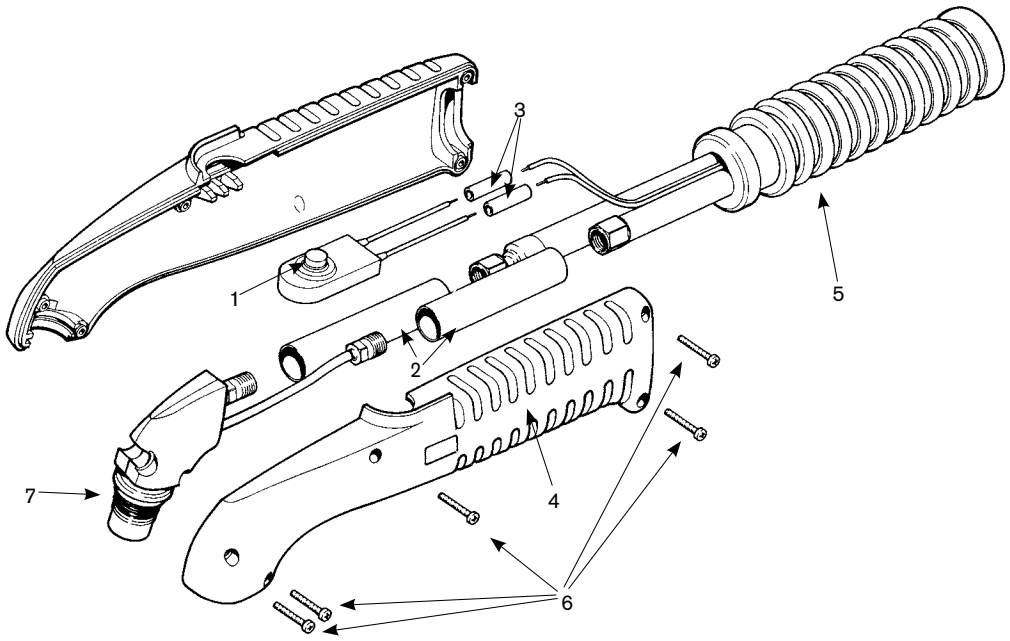
Gouging consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020340	020101	020103
Nitrogen (N_2)	020104	020340	020101	020167

MAX40/HT40

PAC140 hand torch assembly



Assembly

	Part number	Description
	057112*	Torch assembly with 7.6 m (25') leads
	057113*	Torch assembly with 15.2 m (50') 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, 7.6 m (25')
	029130	Torch leads, 15.2 m (50')
	023205	Work lead with clamp, 4.5 m (15')

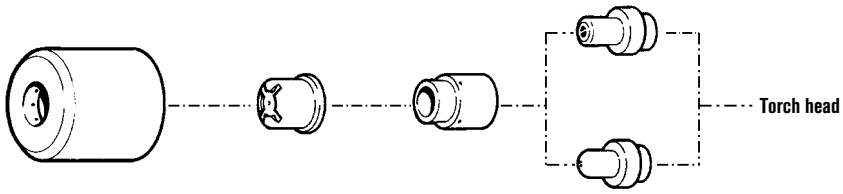
*Assembly includes consumables.

Hypertherm®

MAX40/HT40

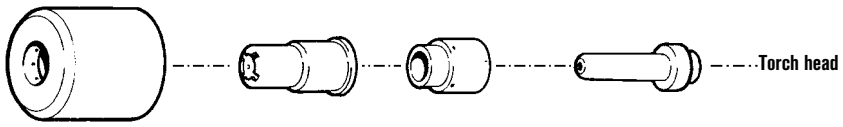
MAX40/HT40 machine torch consumables

Standard consumables



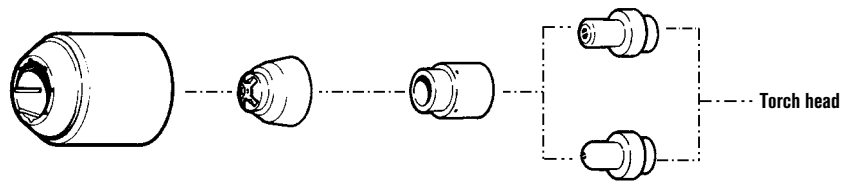
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020115	020101	020103
Nitrogen (N_2)	020104	020115	020101	020167

Extended consumables



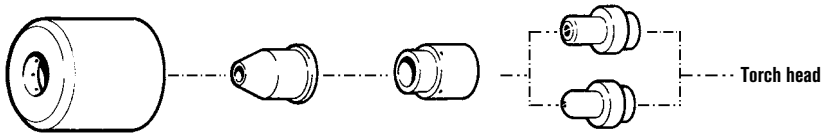
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020466	020101	220467

Tapered consumables



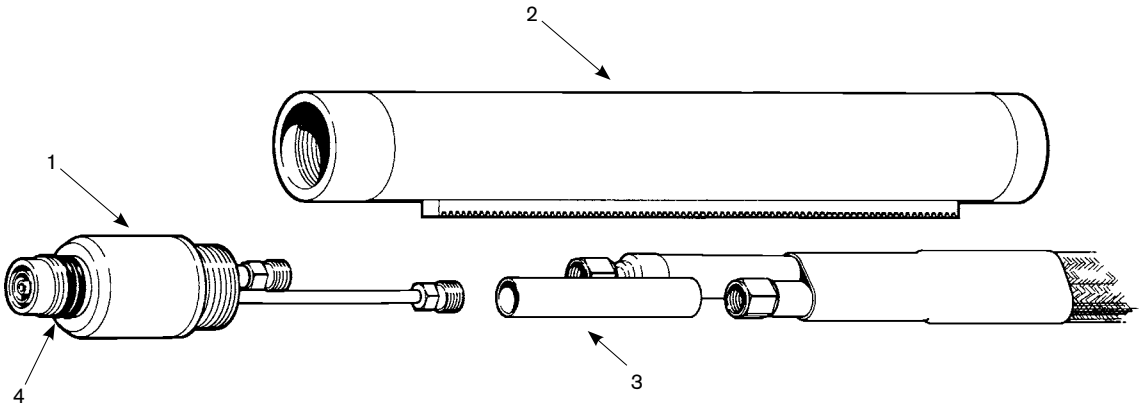
	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020200	020197	020101	020103
Nitrogen (N_2)	020200	020197	020101	020167

Gouging consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
Air	020104	020340	020101	020103
Nitrogen (N_2)	020104	020340	020101	020167

MAX40/HT40 machine torch assembly



Assembly

	Part number	Description
	028287*	Torch assembly
1.	020114	Torch main body
2.	020231	Torch position sleeve, 273.05 mm (10-3/4") (included in 028287)
2.	020269	Torch position sleeve, 457.2 mm (18")
3.	004302	Lead insulator
4.	044016	O-ring, Buna – N 90 Duro
	028288	Torch leads, 7.6 m (25')
	028289	Torch leads, 10.7 m (35')
	028290	Torch leads, 15.2 m (50')
	023205	Work lead with clamp, 4.5 m (15')

*Assembly includes consumables.

Hypertherm®

MAX40cs/42/43

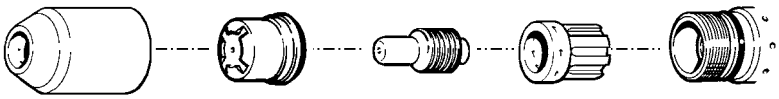
PAC120/121TS/125T hand and machine torch consumables

MAX40cs

MAX42

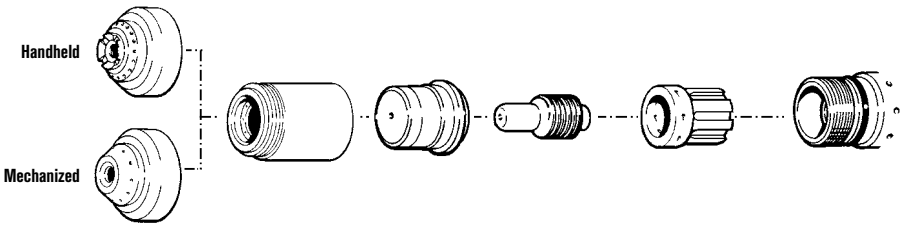
MAX43

Standard consumables



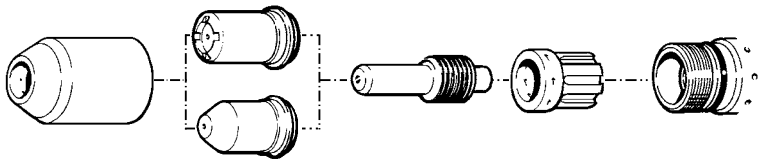
Retaining cap	Nozzle	Electrode	Swirl ring
020930	020350	120573	020361

Shielded consumables



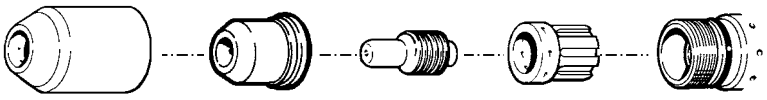
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Handheld	120601	120600	120438	120573	020361
Mechanized	120602	120600	120438	120573	020361

Extended* consumables



	Retaining cap	Nozzle	Electrode	Swirl ring
Pipe saddle	020930	120023	120574	020361
Extended	020930	020546	120574	020361

Gouging consumables



Retaining cap	Nozzle	Electrode	Swirl ring
020930	020539	120573	020361

*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.

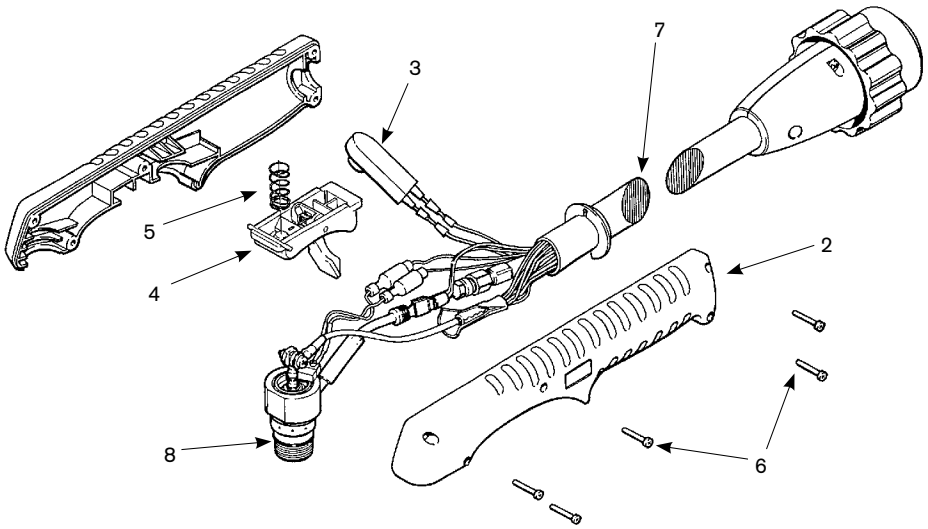
Notes: The nozzles and swirl rings shown must be used as a set.
A label located on the torch handle indicates whether the torch is a PAC121TS or PAC125T.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

MAX40cs/42/43

PAC121TS/125T hand torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 89 or Appendix page 101 for more details.

Assembly – PAC121TS Torch without quick disconnects

	Part number	Description
7.	029556	MAX40cs torch leads without QD 7.6 m (25')
7.	029557	MAX40cs torch leads without QD 15.2 m (50')
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, 4.5 m (15')
	023415	MAX40cs work lead with clamp, 4.5 m (15')
	023205	MAX42 work lead with clamp, 4.5 m (15')

Assembly – PAC125T

	Part number	Description
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, 4.5 m (15')
	023415	MAX40cs work lead with clamp, 4.5 m (15')
	023205	MAX42 work lead with clamp, 4.5 m (15')

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

Hypertherm®

MAX40cs/42/43

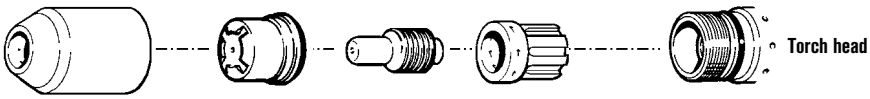
PAC121P hand and machine torch consumables

MAX40cs

MAX42

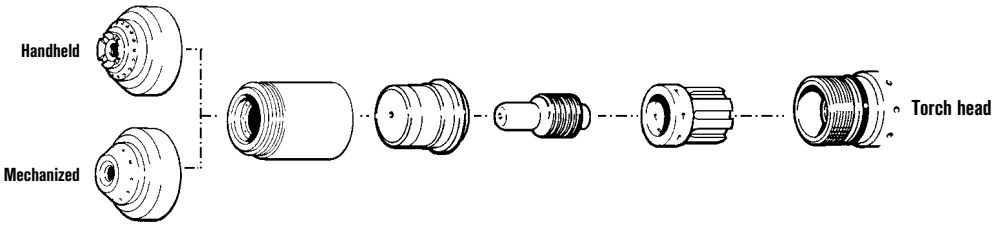
MAX43

Standard consumables



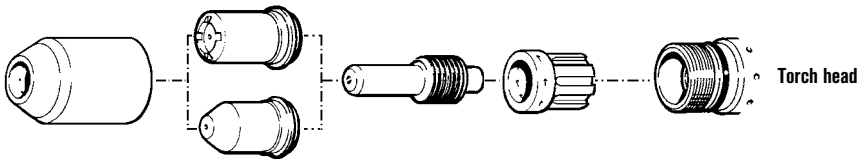
Retaining cap	Nozzle	Electrode	Swirl ring
020930	020350	120573	020361

Shielded consumables



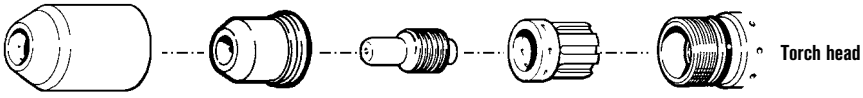
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
Handheld	120601	120600	120438	120573	020361
Mechanized	120602	120600	120438	120573	020361

Extended* consumables



	Retaining cap	Nozzle	Electrode	Swirl ring
Pipe saddle	020930	120023	120574	020361
Extended	020930	020546	120574	020361

Gouging consumables



Retaining cap	Nozzle	Electrode	Swirl ring
020930	020539	120573	020361

*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.

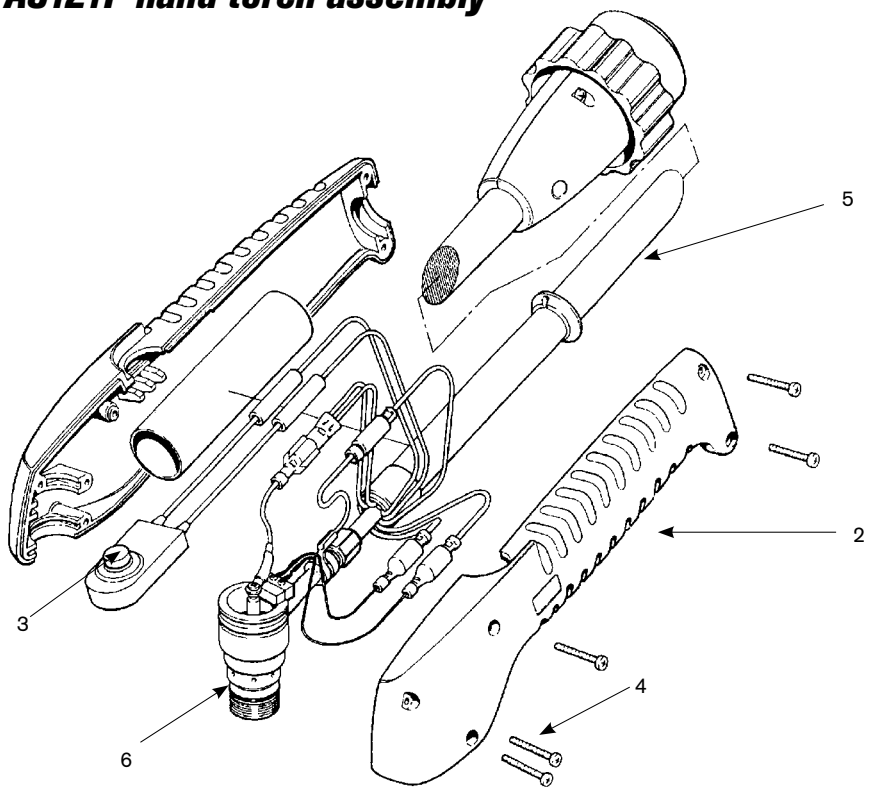
Note: The nozzles and swirl rings shown must be used as a set.

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

MAX40cs

PAC121P hand torch assembly



Note: PAC torches for the Powermax600, Powermax800, Powermax900, MAX42 and MAX43 will all be obsolete as of January 1st, 2013. Original consumables will remain available for these systems, but only a Duramax retrofit torch assembly will be available. Duramax torches require the use of new consumables. See page 89 or Appendix page 101 for more details.

Assembly – PAC121P torch without quick disconnects

	Part number	Description
	057176*	MAX40cs hand torch assembly without QD 7.6 m (25') leads
	057177*	MAX40cs hand torch assembly without QD 15.2 m (50') leads
5.	029483	MAX40cs torch leads without QD 7.6 m (25')
5.	029484	MAX40cs torch leads without QD 15.2 m (50')
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, 4.5 m (15')
	023415	MAX40cs work lead with clamp, 4.5 m (15')
	023205	MAX42 work lead with clamp, 4.5 m (15')

*Assembly includes consumables

For improved performance retrofit with a Duramax HRT retrofit torch (see page 89).

Hypertherm®

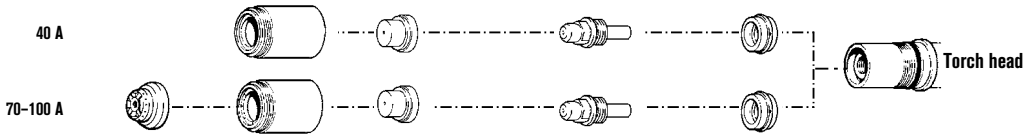
MAX70/100

PAC130 hand torch consumables

MAX70

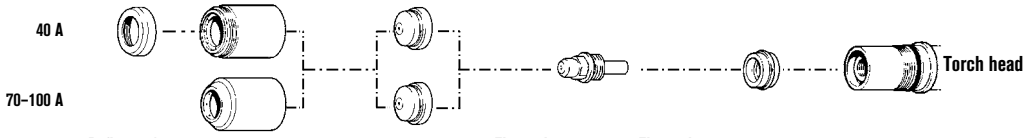
MAX100

Shielded consumables



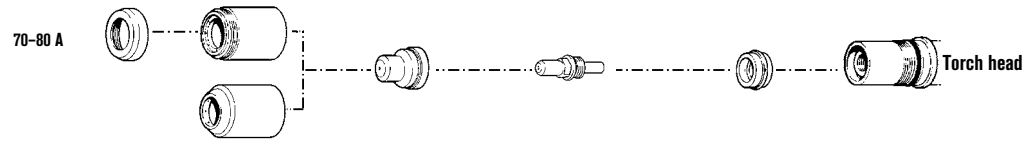
	Shield	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A		020490	020396	120433		020193	020194
70 A	020335	020336	020397	120433		020193	020194
80 A	020335	020336	020397	120433		020193	020194
100 A	020335	020336	020337	120433		020193	020194

Unshielded* consumables



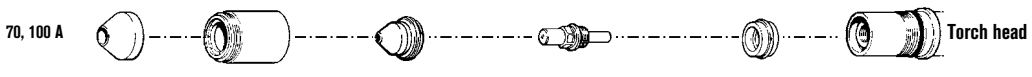
	Deflector / Retaining cap** or	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A	020333 / 020336	020184	020203	120433		020193	020194
70 A	020333 / 020336	020184	020345	120433		020193	020194
80 A	020333 / 020336	020184	020345	120433		020193	020194
100 A	020333 / 020336	020184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

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_2)	020333 / 020336	020184	020563	020866	020194

Gouging consumables

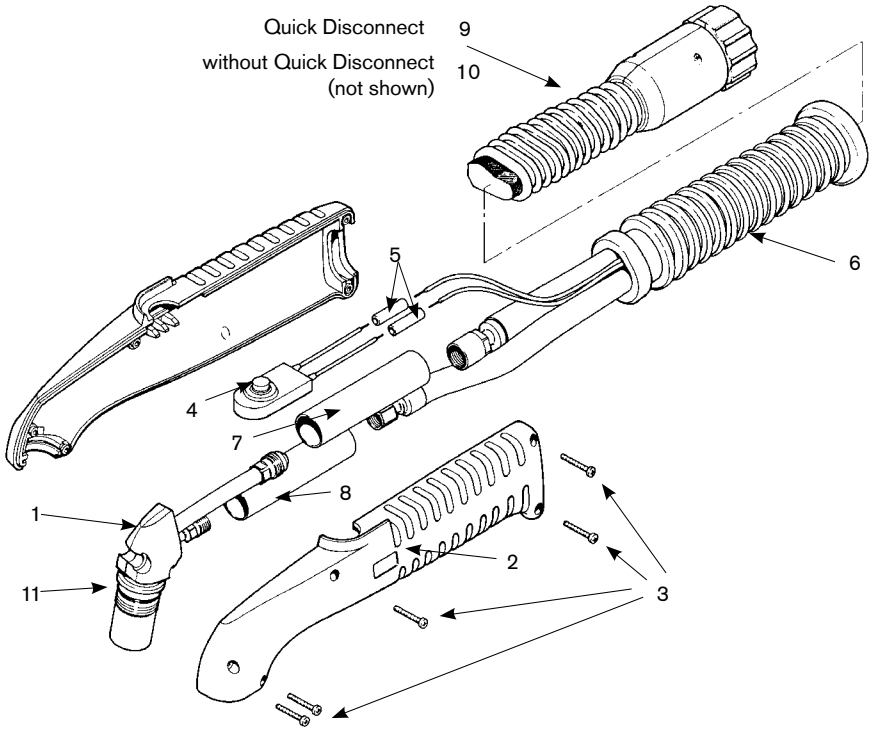


	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
70 A	020712	020336	020878	020744	020194
100 A	020712	020336	120459	020744	020194

*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.

PAC130 hand torch assembly



Assembly – torch leads with quick disconnects

	Part number	Description
	059093*	Torch assembly with QD 7.6 m (25')
	059094*	Torch assembly with QD 15.2 m (50')
	059095*	Torch assembly with QD 22.8 m (75')

Assembly – torch leads without quick disconnects

	Part number	Description
	059076	Torch assembly without QD 7.6 m (25')
	059077	Torch assembly without QD 15.2 m (50')
	059079	Torch assembly without QD 22.8 m (75')
10.	029198	Leads, hand torch without QD 7.6 m (25')
10.	029199	Leads, hand torch without QD 15.2 m (50')
10.	029229	Leads, hand torch without QD 22.8 m (75')
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, 11/16 x 3 1/2"
8.	020536	Pilot arc lead insulator, 9/16 x 2 1/2"
9.	029667	Leads, hand torch with QD 7.6 m (25')
9.	029668	Leads, hand torch with QD 15.2 m (50')
9.	029669	Leads, hand torch with QD 22.8 m (75')
11.	026018	O-ring, Silico
	023682	MAX70 work lead with clamp, 4.5 m (15')
	023209	MAX100 work lead with clamp, 7.6 m (25')

*Assembly includes consumables.

Hypertherm®

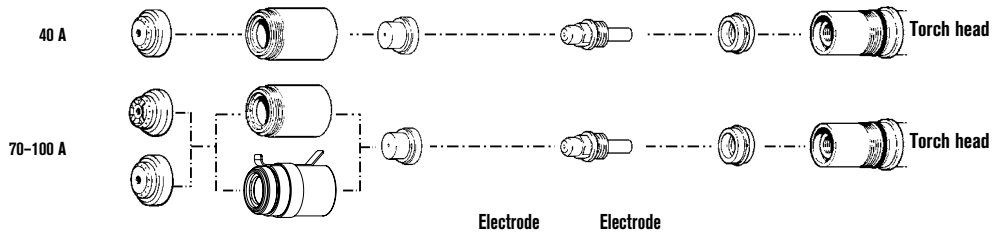
MAX70/100

MAX70/MAX100 machine torch consumables

MAX70

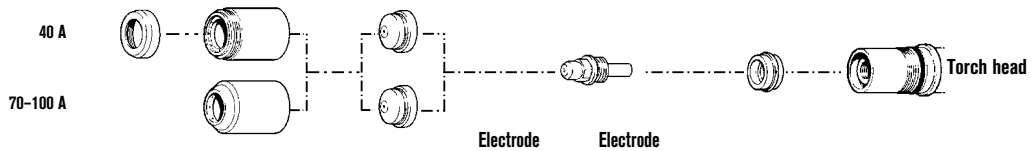
MAX100

Shielded consumables



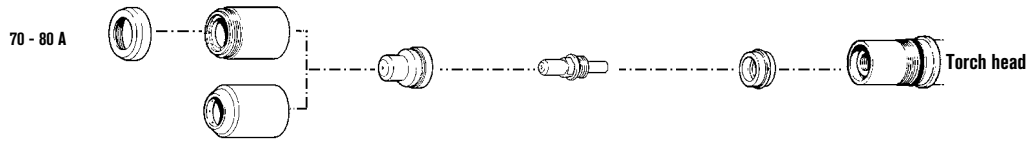
	Shield	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A	020492	020490	020396	120433		020193	020194
70 A	020334	020336	020397	120433		020193	020194
80 A	020334	020336	020397	120433		020193	020194
100 A	020334	020336	020337	120433		020193	020194
70–100 A Ohmic		120966					

Unshielded consumables



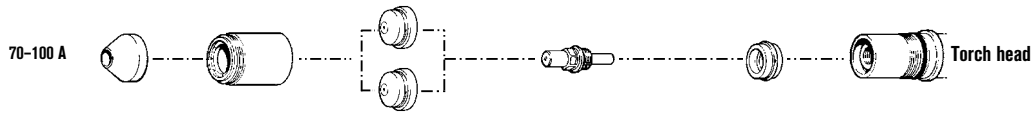
	Deflector / Retaining cap*	Retaining cap	Nozzle	Electrode (Air)	or	Electrode (Nitrogen)	Swirl ring
40 A	020333 / 020336	020184	020203	120433		020193	020194
70 A	020333 / 020336	020184	020345	120433		020193	020194
80 A	020333 / 020336	020184	020345	120433		020193	020194
100 A	020333 / 020336	020184	020195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

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_2)	020333 / 020336	020184	020563	020866	020194

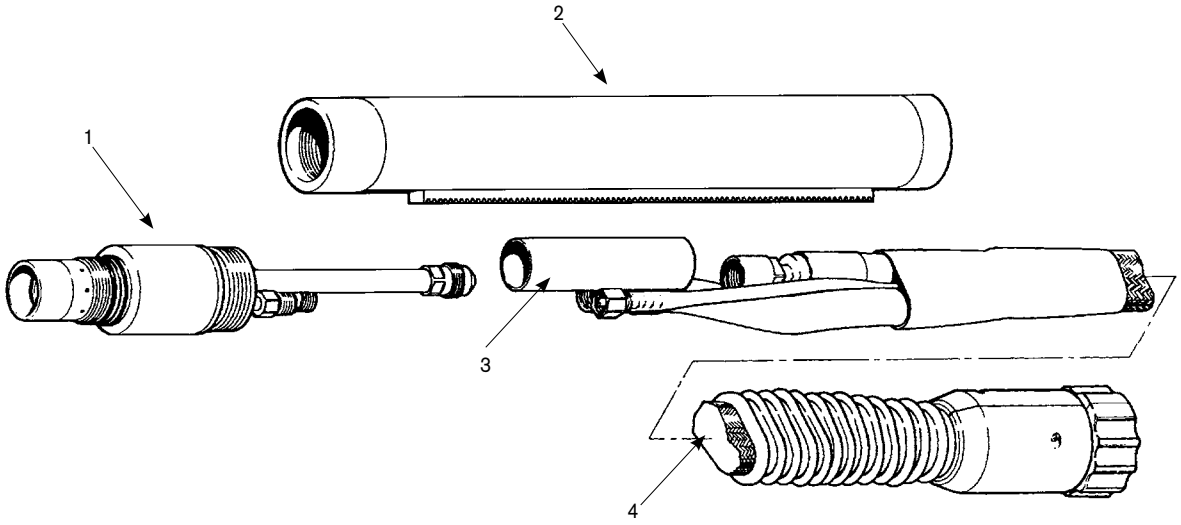
Gouging consumables



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

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

MAX70/MAX100 machine torch assembly



Assembly – torch leads with quick disconnects

	Part number	Description
	059096	MAX100 torch assembly with QD 7.6 m (25')
	059238	MAX100 torch assembly with QD with 216 mm (8.5") torch sleeve 7.6 m (25')
	059167	MAX100 International torch assembly with QD 10.7 m (35')
	059239	MAX100 torch assembly with QD with 216 mm (8.5") torch sleeve 10.7 m (35')
	059097	MAX100 torch assembly with QD 15.2 m (50')
	059240	MAX100 torch assembly with QD with 216 mm (8.5") torch sleeve 15.2 m (50')
	059098	MAX100 torch assembly with QD 22.8 m (75')
4.	028524	Machine torch leads with QD 7.6 m (25')
4.	028527	Machine torch leads with QD 10.7 m (35')
4.	028525	Machine torch leads with QD 15.2 m (50')
4.	028526	Machine torch leads with QD 22.8 m (75')

Assembly – torch leads without quick disconnects

	Part number	Description
4.	028326	Machine torch leads without QD 7.6 m (25') (not shown)
4.	028330	Machine torch leads without QD 10.7 m (35') (not shown)
4.	028327	Machine torch leads without QD 15.2 m (50') (not shown)
4.	028335	Machine torch leads without QD 22.8 m (75') (not shown)
1.	020201	Torch main body, 180°
2.	020243	Torch position sleeve, 260.35 mm (10 1/4")
2.	020270	Torch position sleeve, 457.2 mm (18")
3.	024173	Pilot arc lead insulator, 9/1. x 2 112"
	023682	MAX70 work lead with clamp, 4.5 m (15')
	023209	MAX100 work lead with clamp, 7.6 m (25')

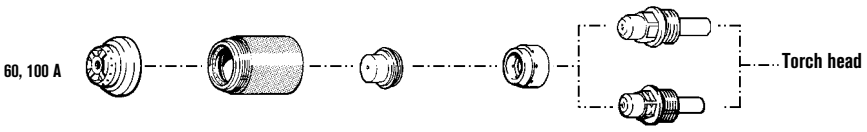
*Assembly includes consumables.

Hypertherm®

MAX100D

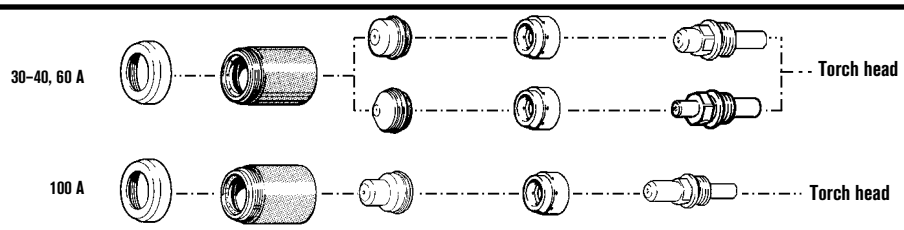
PAC160/E hand torch consumables

Shielded consumables



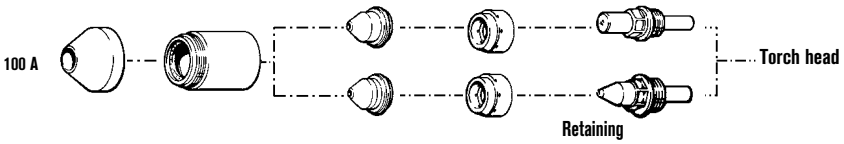
Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Nitrogen (N_2)	Air	60 A	020335	020756	120336	020706	020193
	Nitrogen (N_2)	Carbon dioxide (CO_2)	60 A	020335	020756	120336	020706	020193
	Nitrogen (N_2)	Air	100 A	020335	020846	020705	020706	020193
	Nitrogen (N_2)	Carbon dioxide (CO_2)	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_2)	100 A	020335	020846	020705	020706	020193
Stainless steel	H35-Nitrogen (N_2)	Nitrogen (N_2)	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_2)	Air	60 A	020333	020756	020922	020706	020193
	Nitrogen (N_2)	Air	100 A	020333	020846	020754	020706	020887

Gouging consumables

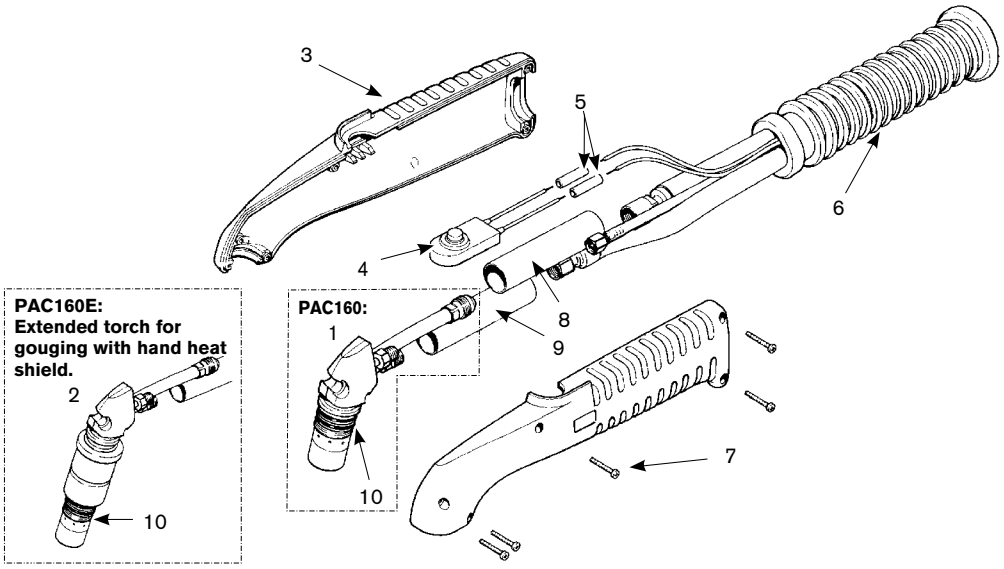


Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/stainless/ aluminum	H35	Air	100 A	020712	020699	020704	020750	020703
Stainless steel/ aluminum	H35	Nitrogen (N_2)	100 A	020712	020699	020704	020750	020703
Mild steel	Air	Air	100 A	020712	020699	020745	020750	020744

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

MAX100D

PAC160/E hand and gouging torch assemblies

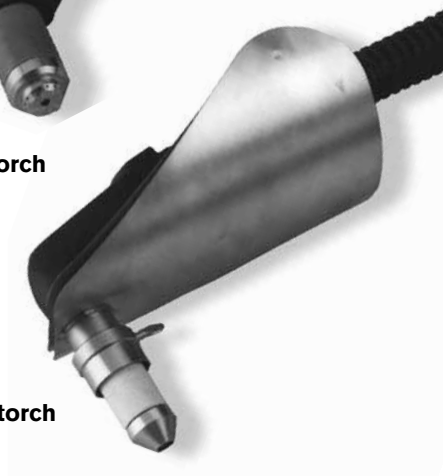


Assembly

	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, 11/16 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 7.6 m (25') leads
	059125*	PAC160 hand torch assembly with 15.2 m (50') leads
	059126*	PAC160 hand torch assembly with 22.8 m (75') leads
	059112*	PAC160E hand torch assembly with 7.6 m (25') leads
	059113*	PAC160E hand torch assembly with 15.2 m (50') leads
	059114*	PAC160E hand torch assembly with 22.8 m (75') leads
	029730	MAX100D lead replacement with 7.6 m (25') leads
	029731	MAX100D lead replacement with 15.2 m (50') leads
	029732	MAX100D lead replacement with 22.8 m (75') leads
	028558	MAX100D quick disconnect assembly
	023209	Work lead with clamp, 7.6 m (25')

*Assembly includes consumables.

PAC160 hand torch



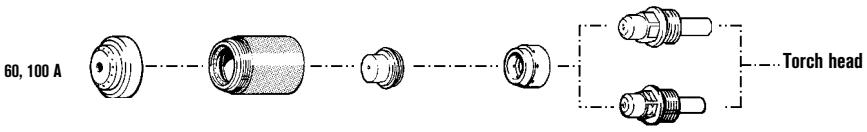
PAC160E gouging torch

Hypertherm®

MAX100D

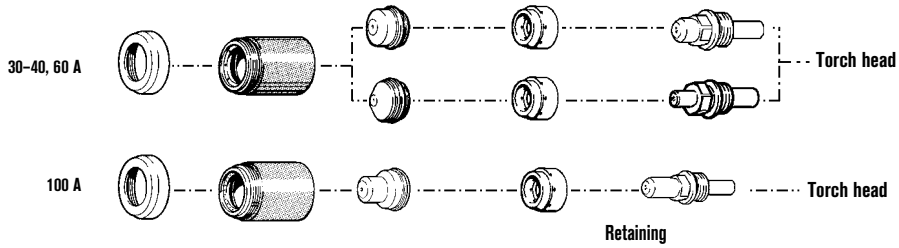
MAX100D machine torch consumables

Shielded consumables



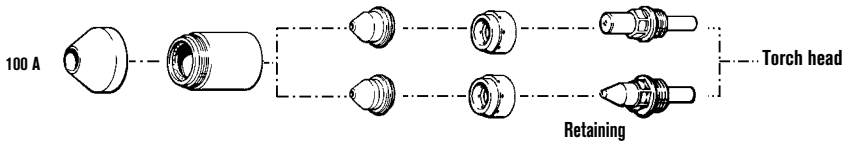
Metal	Plasma gas	Shield gas	Amps	Shield	Retaining cap	Nozzle	Swirl ring	Electrode
Mild steel/ stainless/ aluminum	Nitrogen (N_2)	Air	60 A	020334	020756	120336	020706	020193
	Nitrogen (N_2)	Carbon dioxide (CO_2)	60 A	020334	020756	120336	020706	020193
	Nitrogen (N_2)	Air	100 A	020334	020846	020705	020706	020193
	Nitrogen (N_2)	Carbon dioxide (CO_2)	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_2)	100 A	020334	020846	020705	020706	020193
Stainless steel	H35-Nitrogen (N_2)	Nitrogen (N_2)	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_2)	Air	60 A	020333	020756	020922	020706	020193
	Nitrogen (N_2)	Air	100 A	020333	020846	020754	020706	020887

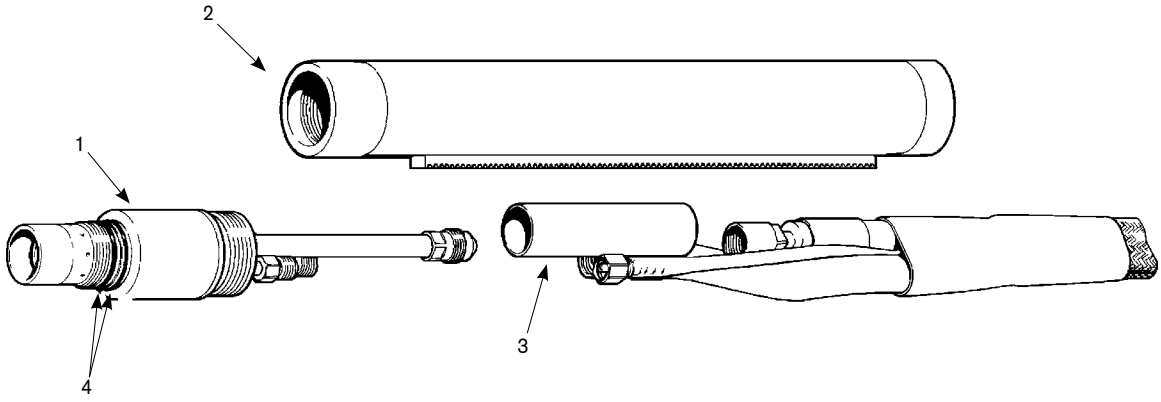
Gouging consumables



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_2)	100 A	020712	020699	020704	020750	020703
Mild steel	Air	Air	100 A	020712	020699	020745	020750	020744

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, 11/16 x 31/2"
4.	058019	O-ring: Viton .801 x .071 (two required)
	059115*	MAX100D machine torch assembly with 7.6 m (25') leads
	059116*	MAX100D machine torch assembly with 15.2 m (50') leads
	059117*	MAX100D machine torch assembly with 22.8 m (75') leads
	028555	MAX100D machine torch leads, 7.6 m (25')
	028556	MAX100D machine torch leads, 15.2 m (50')
	028557	MAX100D machine torch leads, 22.8 m (75')
	028910	MAX100D quick disconnect assembly
	002190	Boot, 80/100 amp quick disconnect
	023209	Work lead with clamp, 7.6 m (25')

*Assembly includes consumables.

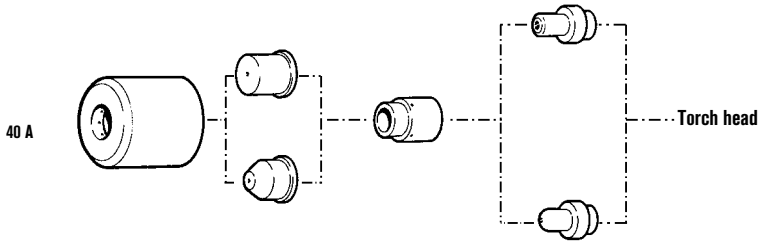
Hypertherm®

HT40/HT40C

HT40/HT40C machine torch consumables

HT40C

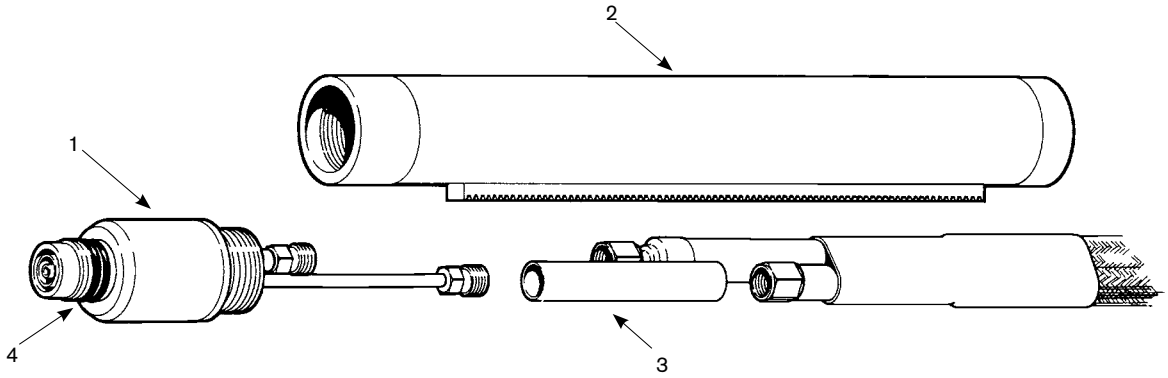
Standard consumables



	Retaining cap	Nozzle	Swirl ring	Electrode
40 A Air	020104	020102	020101	020103
40 A Nitrogen (N_2)	020104	020102	020101	020167
Pipe saddle Air	020104	020131	020101	020103
Pipe saddle Nitrogen (N_2)	020104	020131	020101	020167

HT40/HT40C

Machine torch assembly



Assembly

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

*Assembly includes consumables.

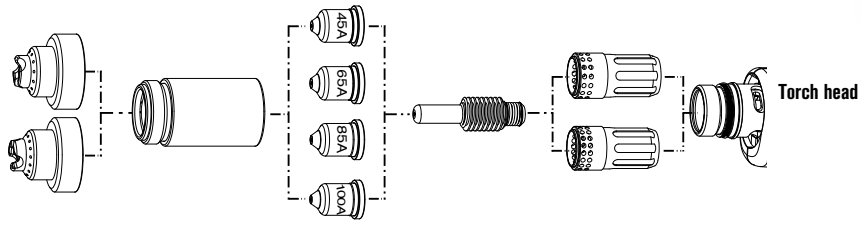
Hypertherm®

Duramax™ HRT/HRTs retrofit torch

For Powermax1000/1250/1650

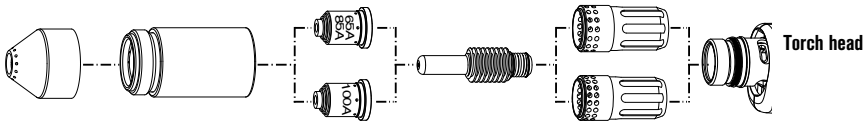
HRT/HRTs hand torch consumables

Drag-cutting consumables



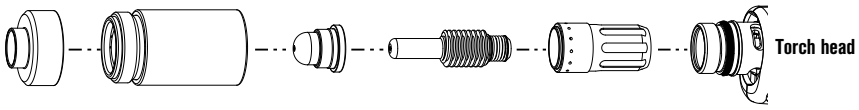
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220818*	220854	220941*	220842*	220857
65 A	220818*	220854	220819*	220842*	220857
85 A	220818*	220854	220816*	220842*	220857
105 A	220992*	220854	220990*	220842*	220994

Gouging consumables



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

FineCut consumables



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

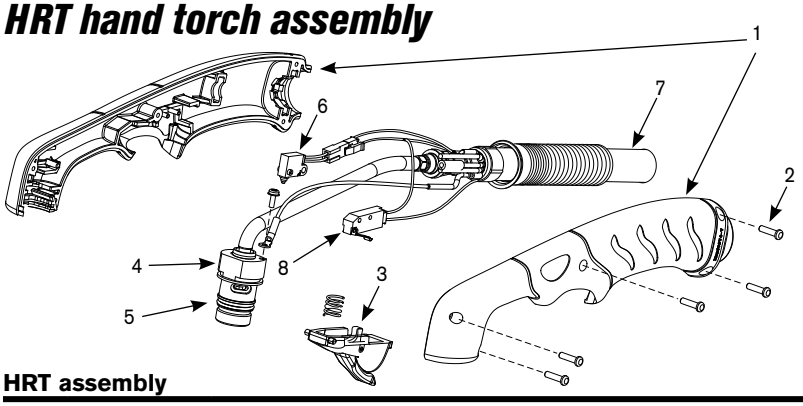
All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax™ HRT

HRT hand torch assembly



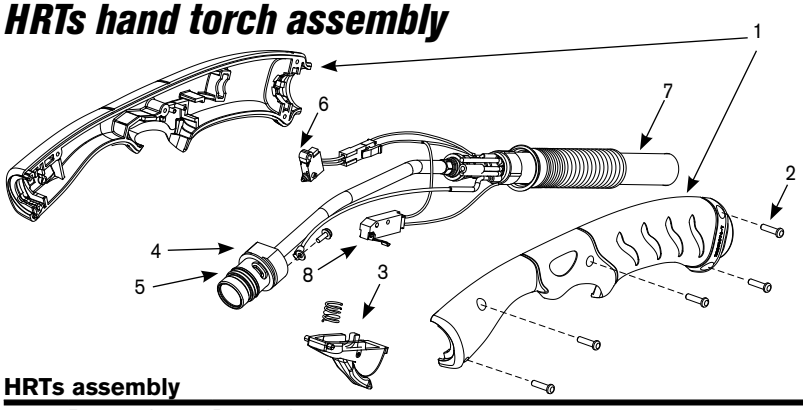
HRT assembly

	Part number	Description
	228788	HRT hand torch assembly with 7.6 m (25') lead
	228789	HRT hand Torch Assembly with 15.2 m (50') lead
8.	005252	Trigger start switch
5.	058519	O-ring
	075504	Pilot terminal screw
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
1.	228954	Kit: Duramax 75°/ HRT Torch handle replacement
6.	228719	Kit: Duramax 75°/HRT Cap-sensor switch replacement
3.	228721	Kit: Duramax 15°/Duramax 75°/HRT/HRTs Safety trigger with spring replacement
7.	228952*	Kit: HRT/HRTs Torch lead replacement, 7.6 m (25'), coupler with 12.7 mm (1/2") threads
	228953*	Kit: HRT/HRTs Torch lead replacement, 15.2 m (50'), coupler with 12.7 mm (1/2") threads
4.	228792*	Kit: HRT Torch main body replacement, coupler with 9.5 mm (3/8") threads
	228950*	Kit: HRT Torch main body replacement, coupler with 12.7 mm (1/2") threads

*Before purchasing this part check the torch built date.

Duramax™ HRTs

HRTs hand torch assembly



HRTs assembly

	Part number	Description
	228807	HRTs hand torch assembly with 7.6 m (25') lead
	228808	HRTs hand Torch Assembly with 15.2 m (50') lead
8.	005252	Trigger start switch
5.	058519	O-ring
	075504	Pilot terminal screw
2.	075714*	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
1.	228955	Kit: Duramax 15°/ HRTs Torch handle replacement
6.	228109	Kit: Duramax 15°/HRTs Cap-sensor switch replacement
3.	228721	Kit: Duramax 15°/Duramax 75°/HRT/HRTs Safety trigger with spring replacement
7.	228952*	Kit: HRT/HRTs Torch lead replacement, 7.6 m (25'), coupler with 12.7 mm (1/2") threads
	228953*	Kit: HRT/HRTs Torch lead replacement, 15.2 m (50'), coupler with 12.7 mm (1/2") threads
4.	228809*	Kit: HRTs Torch main body replacement, coupler with 9.5 mm (3/8") threads
	228951*	Kit: HRTs Torch main body replacement, coupler with 12.7 mm (1/2") threads

*Before purchasing this part check the torch built date.

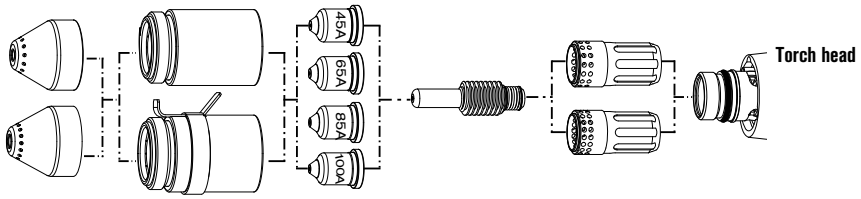
Hypertherm®

Duramax™ MRT retrofit torch

For Powermax1000/1250/1650

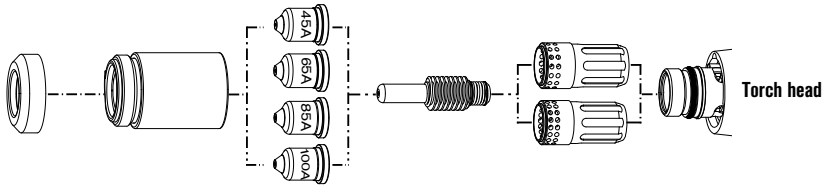
MRT machine torch consumables

Mechanized consumables



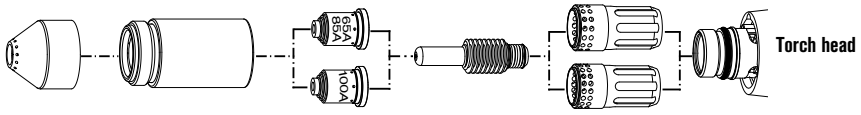
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220817*	220854	220941*	220842*	220857
65 A	220817*	220854	220819*	220842*	220857
85 A	220817*	220854	220816*	220842*	220857
105 A	220993*	220854	220990*	220842*	220994
Ohmic		220953			

Unshielded consumables



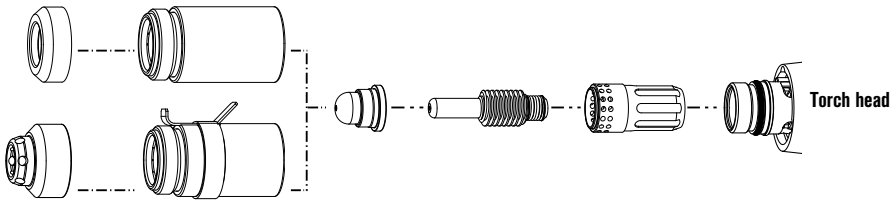
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
45 A	220955	220854	220941*	220842*	220857
65 A	220955	220854	220819*	220842*	220857
85 A	220955	220854	220816*	220842*	220857
105 A	220955	220854	220990*	220842*	220994

Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
65 A/85 A	220798	220854	220797*	220842*	220857
105 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			

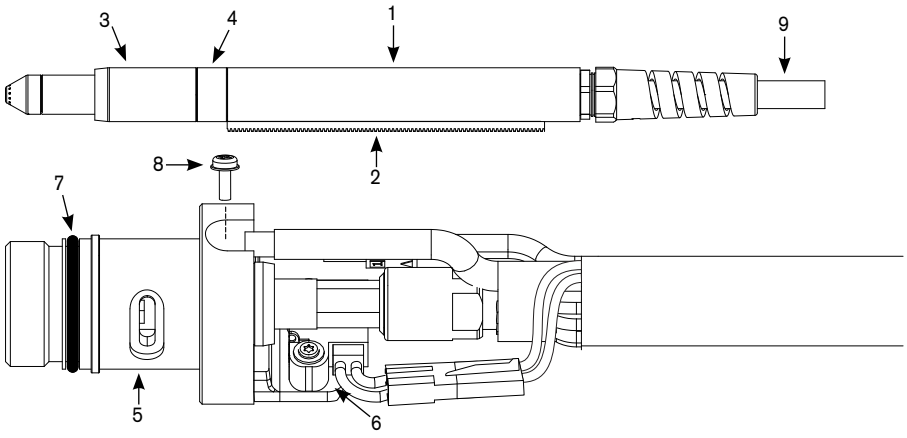
All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax™ MRT

MRT machine torch assembly



MRT assembly

	Part number	Description
	228790*	MRT machine torch assembly with 7.6 m (25') lead
	228791*	MRT machine torch assembly with 15.2 m (50') 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, 7.6 m (25')
9.	228787	Kit: MRT torch lead replacement, 15.2 m (50')
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128772	Kit: ETR connector repair (regional repair centers only)

*Assembly includes a variety of Duramax consumables.

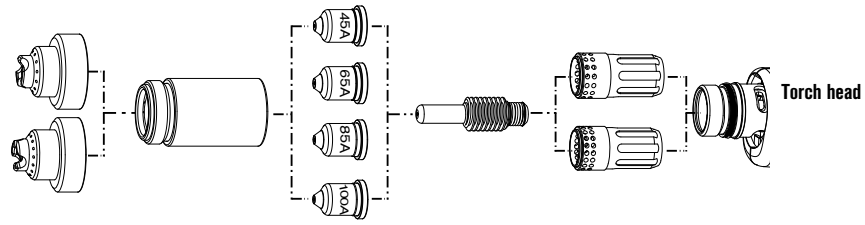
Hypertherm®

Duramax™ HRT/HRTs retrofit torch

For Powermax600/800/900 and MAX42/43

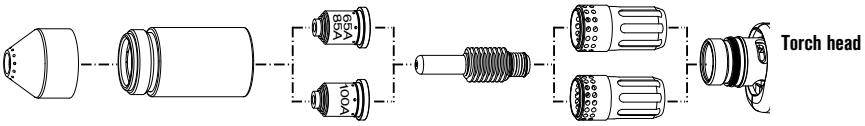
HRT/HRTs hand torch consumables

Drag-cutting consumables



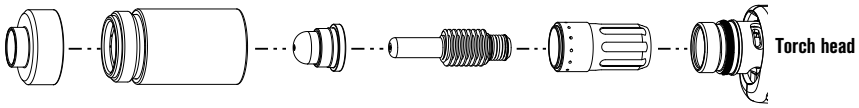
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–55 A	220818*	220854	220941*	220842*	220857

Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–85 A	220798	220854	220797*	220842*	220857

FineCut consumables



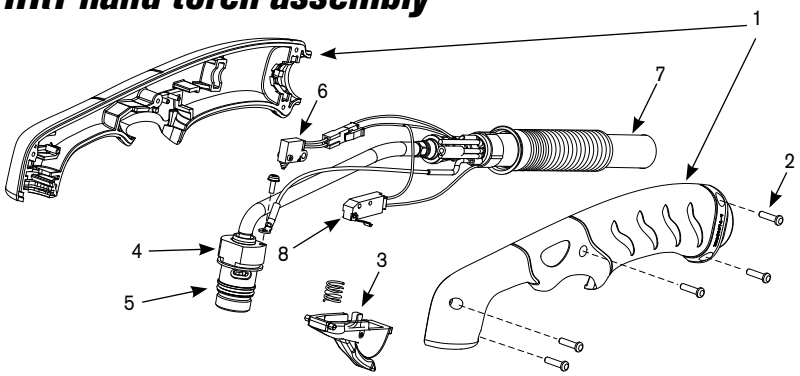
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–45 A	220931	220854	220930*	220842*	220947

All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

HRT hand torch assembly



HRT assembly

	Part number	Description
	228916*	HRT hand torch assembly with 7.6 m (25') lead
	228917*	HRT hand torch assembly with 15.2 m (50') lead
	228918*	HRT hand torch assembly with 7.6 m (25') lead, without quick disconnect
	228919*	HRT hand torch assembly with 15.2 m (50') lead, without quick disconnect
1.	228954	Kit: Duramax 75°/HRT Torch handle replacement
2.	075714	Handle screws, #4 x 1/2 slotted TORX pan head, S/B
3.	228721	Kit: Duramax 75°/Duramax 15°/HRT (spring and trigger assembly)
4.	228950	Kit: HRT Torch main body replacement
5.	058519	O-ring
6.	228719	Kit: Duramax 75°/HRT Cap-sensor switch replacement
7.	228924	Kit: HRT Torch lead replacement, 7.6 m (25')
7.	228925	Kit: HRT Torch lead replacement, 15.2 m (50')
7.	228926	Kit: HRT Torch lead replacement, 7.6 m (25'), without quick disconnect
7.	228927	Kit: HRT Torch lead replacement, 15.2 m (50'), without quick disconnect
8.	005252	Trigger start switch
	128926	Kit: Quick disconnect repair (regional repair centers only)

*Assembly includes a variety of Duramax consumables.

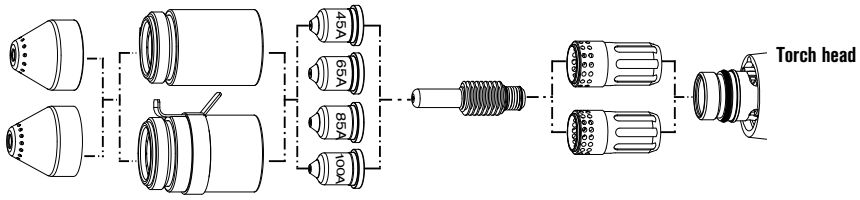
Hypertherm®

Duramax™ MRT retrofit torch

For Powermax600/800/900 and MAX42/43

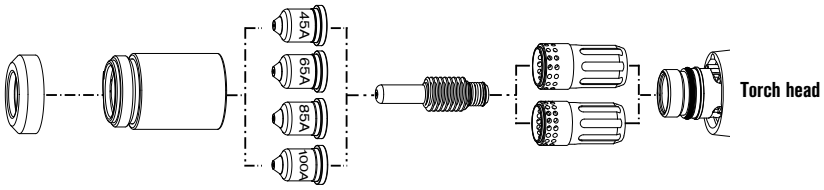
MRT machine torch consumables

Mechanized consumables



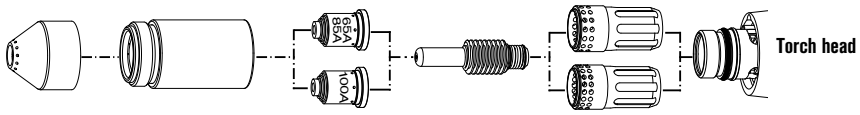
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–55 A	220817*	220854	220941*	220842*	220857
Ohmic		220953			

Unshielded consumables



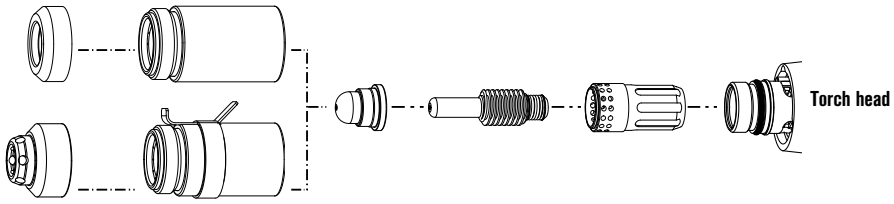
	Shield/Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–55 A	220955	220854	220941*	220842*	220857

Gouging consumables



	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A–55 A	220798	220854	220797*	220842*	220857

FineCut consumables



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

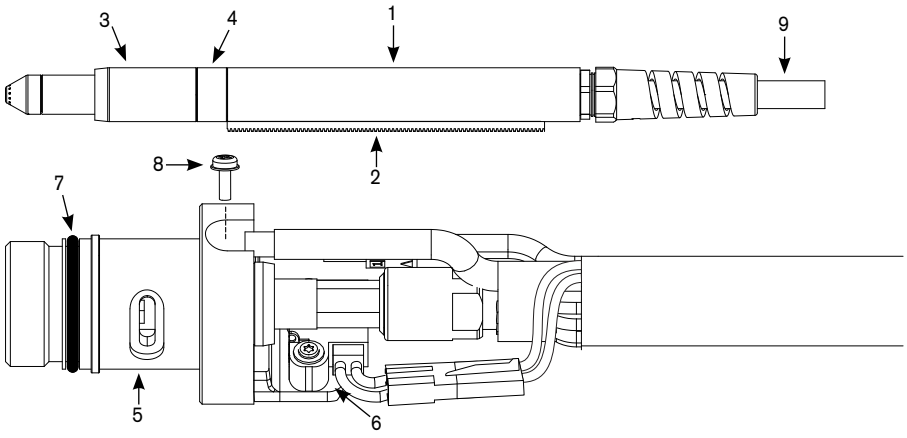
All-in-one and FineCut kits are available, see pages 25–26 or visit: **www.hypertherm.com/consumablekits**.

*Consumables available in a bulk package option, see page 27 for bulk package information.

New CopperPlus longer life electrode available for Duramax torches. Please refer to the back cover of the catalog for additional information. CopperPlus part number 220777.

Duramax™ MRT

MRT machine torch assembly



MRT assembly

	Part number	Description
	228920*	MRT machine torch assembly with 7.6 m (25') lead
	228921*	MRT machine torch assembly with 15.2 m (50') lead
	228922*	MRT machine torch assembly with 7.6 m (25') lead, without quick disconnect
	228923*	MRT machine torch assembly with 15.2 m (50') lead, without quick disconnect
1.	228737	Kit: Duramax 180°/MRT positioning sleeve
2.	228738	Kit: Duramax 180°/MRT removable gear rack
3.	228735	Kit: Duramax 180°/Duramax 180° mini/MRT front mounting sleeve
4.	228736	Kit: Duramax 180°/Duramax 180° mini/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.	228928	Kit: MRT torch lead replacement, 7.6 m (25')
9.	228929	Kit: MRT torch lead replacement, 15.2 m (50')
9.	228930	Kit: MRT torch lead replacement, 7.6 m (25'), without quick disconnect
9.	228931	Kit: MRT torch lead replacement, 15.2 m (50'), without quick disconnect
	128650	Remote start pendant for machine torch, 7.6 m (25')
	128651	Remote start pendant for machine torch, 15.2 m (50')
	128926	Kit: Quick disconnect repair (regional repair centers only)

*Assembly includes a variety of Duramax consumables.

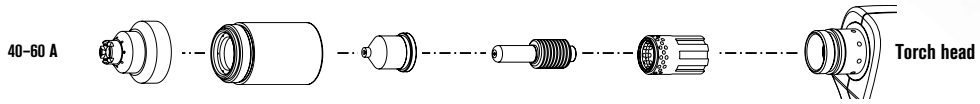
Hypertherm®

RT60 retrofit torch

For Powermax600/800/900, MAX42/43

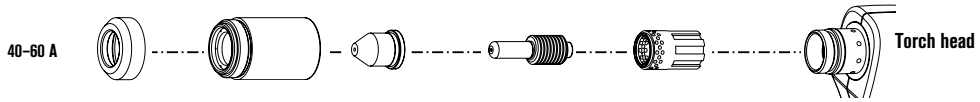
RT60 hand torch consumables

Shielded consumables



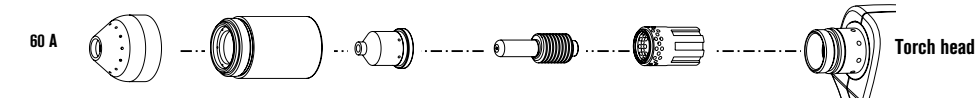
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929	120928	120932*	120926*	120925
60 A	120929	120928	120931*	120926*	120925

Unshielded** consumables



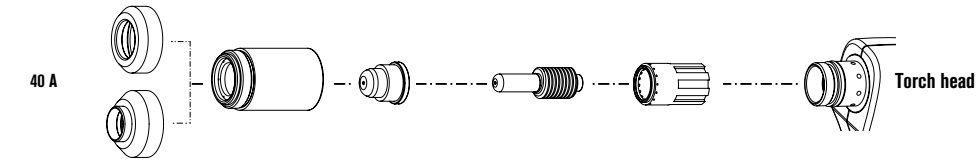
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925

Gouging consumables



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

FineCut consumables

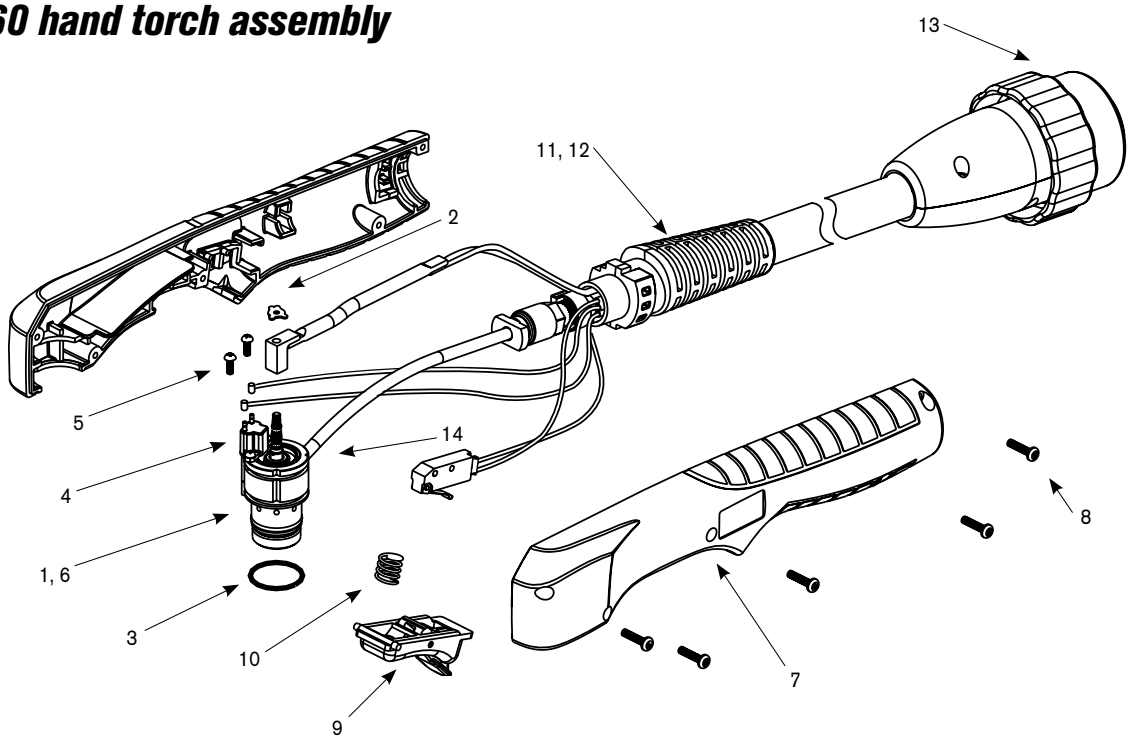


	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE* **	220325	120928	220329	120926*	220327

**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.

RT60

RT60 hand torch assembly



Assembly

	Part number	Description
1.	128564	Torch main body
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
13.	128926	Kit: RT60/RT60M quick disconnect repair
14.	128642	Kit: Start switch replacement

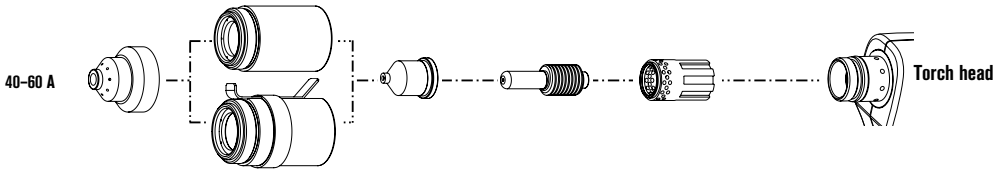
Hypertherm®

RT60M retrofit torch

For Powermax600/800/900, MAX42/43

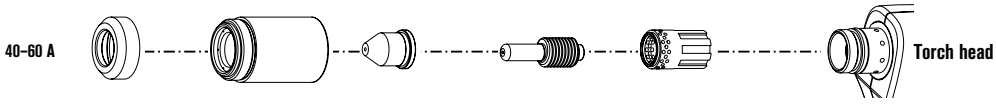
RT60M machine torch consumables

Shielded consumables



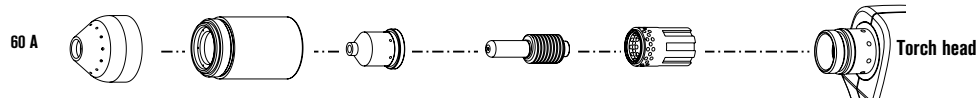
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932	120926*	120925
60 A	120930	120928	120931	120926*	120925
Ohmic		220061			

Unshielded consumables



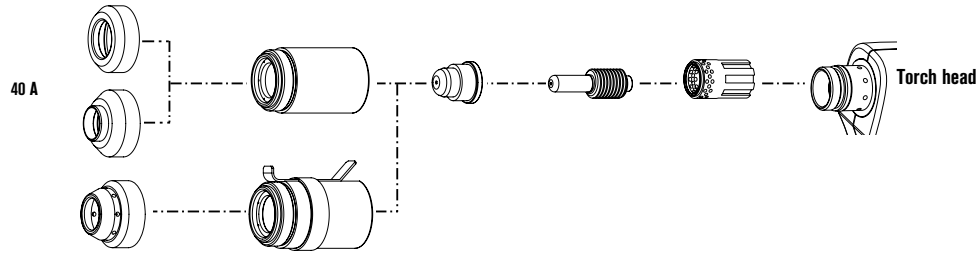
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006*	120926*	120925
60 A	120979	120928	220007*	120926*	120925

Gouging consumables



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

FineCut consumables

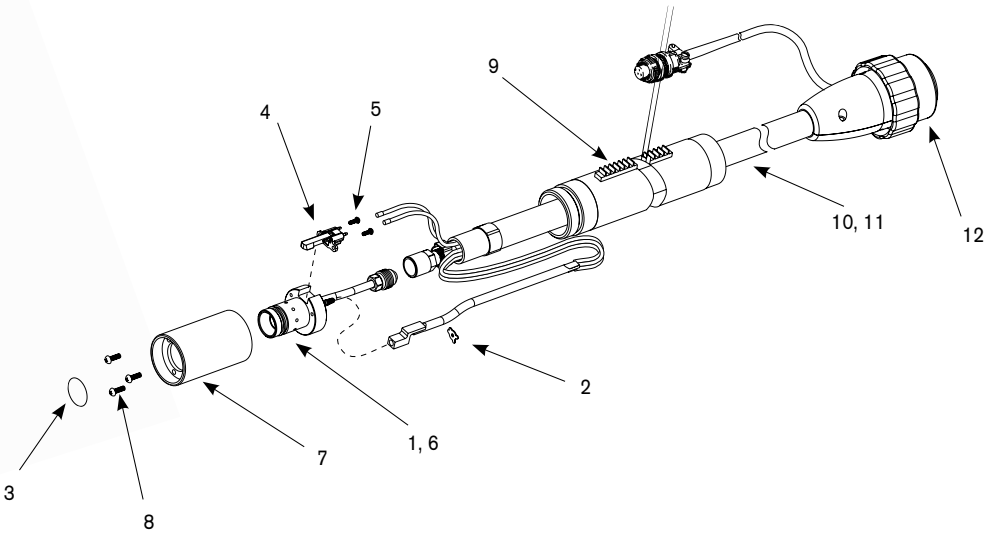


	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

*Consumables available in a bulk package option, see page 27 for bulk package information.

RT60M

RT60M machine torch assembly



Assembly

	Part number	Description
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
12.	128926	Kit: RT60/RT60M quick disconnect repair
	128645	Torch mounting kit (for reassembly after installation)

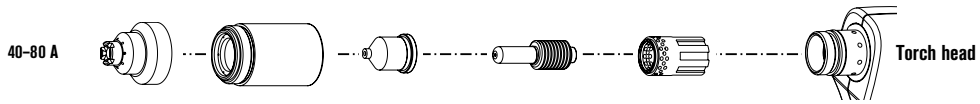
Hypertherm®

RT80 retrofit torch

For Powermax1100

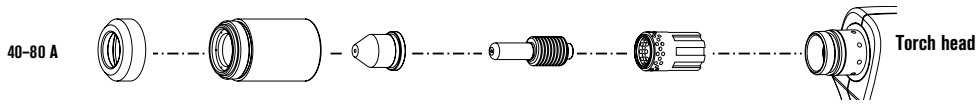
RT80 hand torch consumables

Shielded consumables



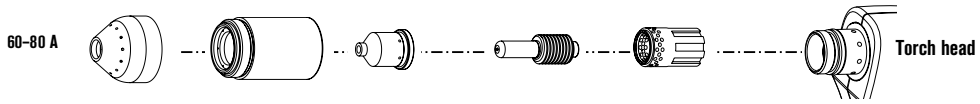
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120929	120928	120932*	120926*	120925
60 A	120929	120928	120931*	120926*	120925
80 A	120929	120928	120927*	120926*	120925

Unshielded** consumables



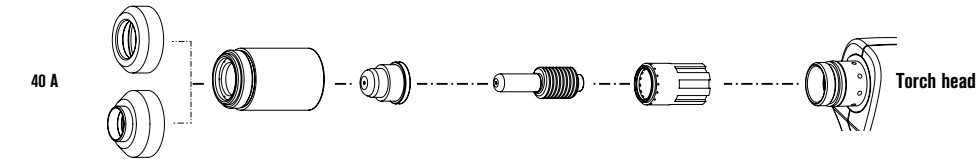
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

Gouging consumables



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

FineCut consumables



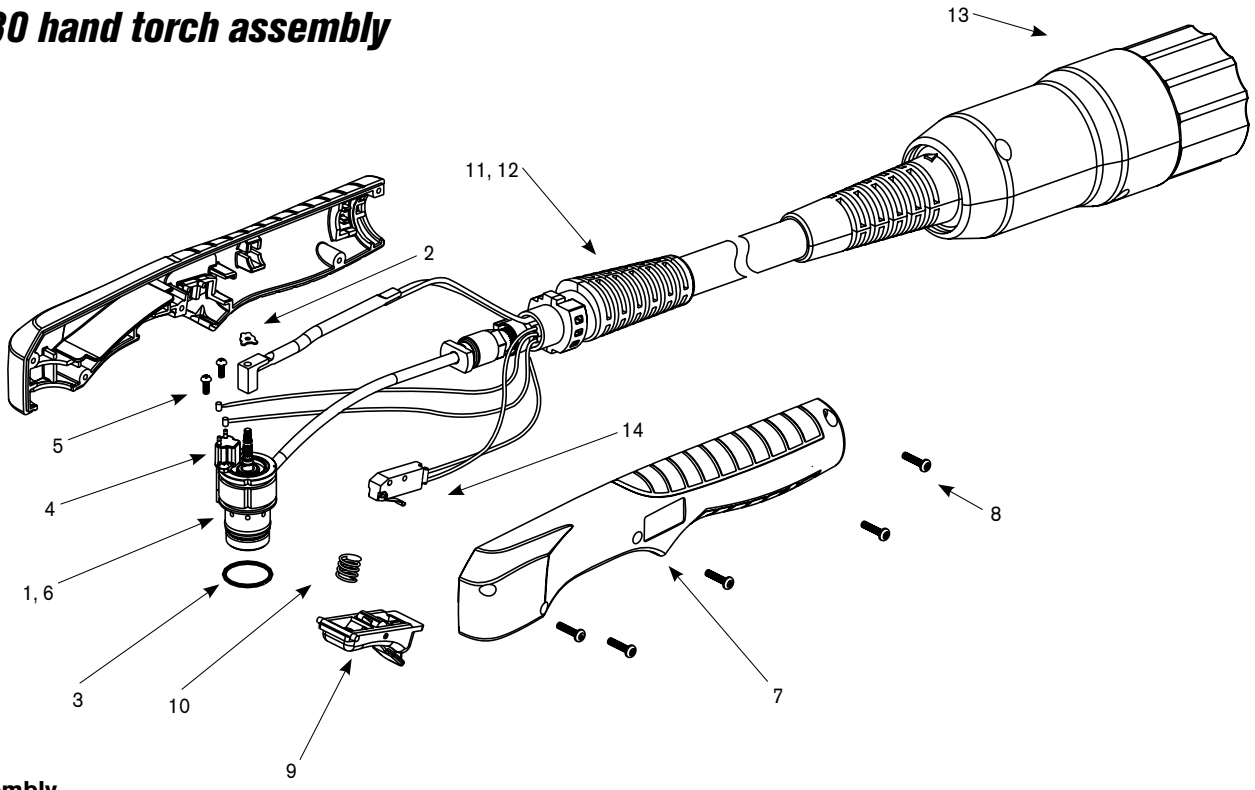
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	220327
40 A CE* **	220325	120928	220329	120926*	220327

**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.

*Consumables available in a bulk package option, see page 27 for bulk package information.

RT80 for Powermax1100

RT80 hand torch assembly



Assembly

	Part number	Description
	087033*	RT80 hand torch assembly with 7.6 m (25') leads
	087034*	RT80 hand torch assembly with 15.2 m (50') 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, 7.6 m (25')
12.	128830	Torch lead replacement, 15.2 m (50')
13.	128826	Kit: quick disconnect repair
14.	128642	Kit: start switch replacement

*Assembly includes consumables.

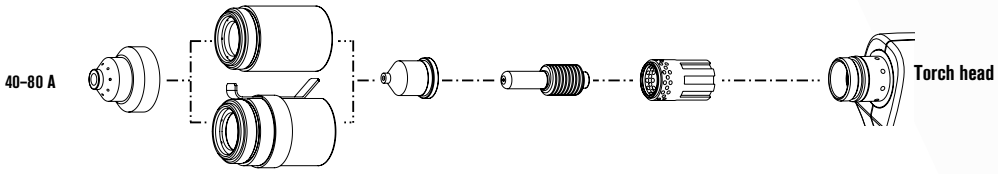
Hypertherm®

RT80M retrofit torch

For Powermax1100

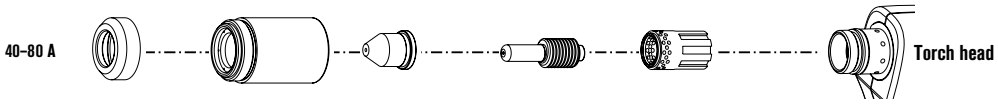
RT80M machine torch consumables

Shielded consumables



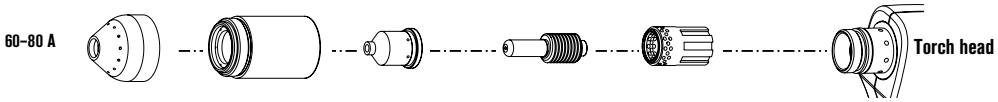
	Shield	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120930	120928	120932*	120926*	120925
60 A	120930	120928	120931*	120926*	120925
80 A	120930	120928	120927*	120926*	120925
Ohmic		220061			

Unshielded consumables



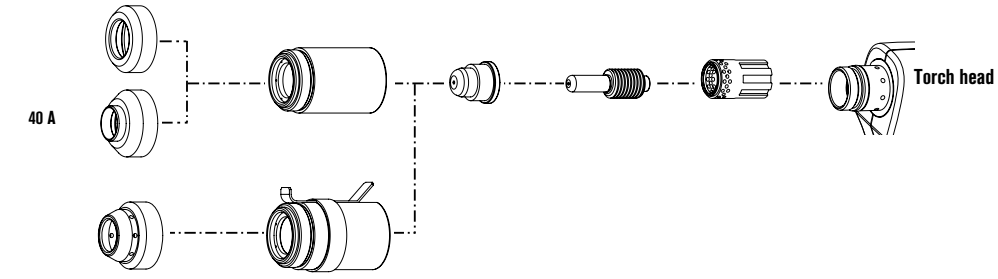
	Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220006	120926*	120925
60 A	120979	120928	220007	120926*	120925
80 A	120979	120928	120980	120926*	120925

Gouging consumables



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

FineCut consumables

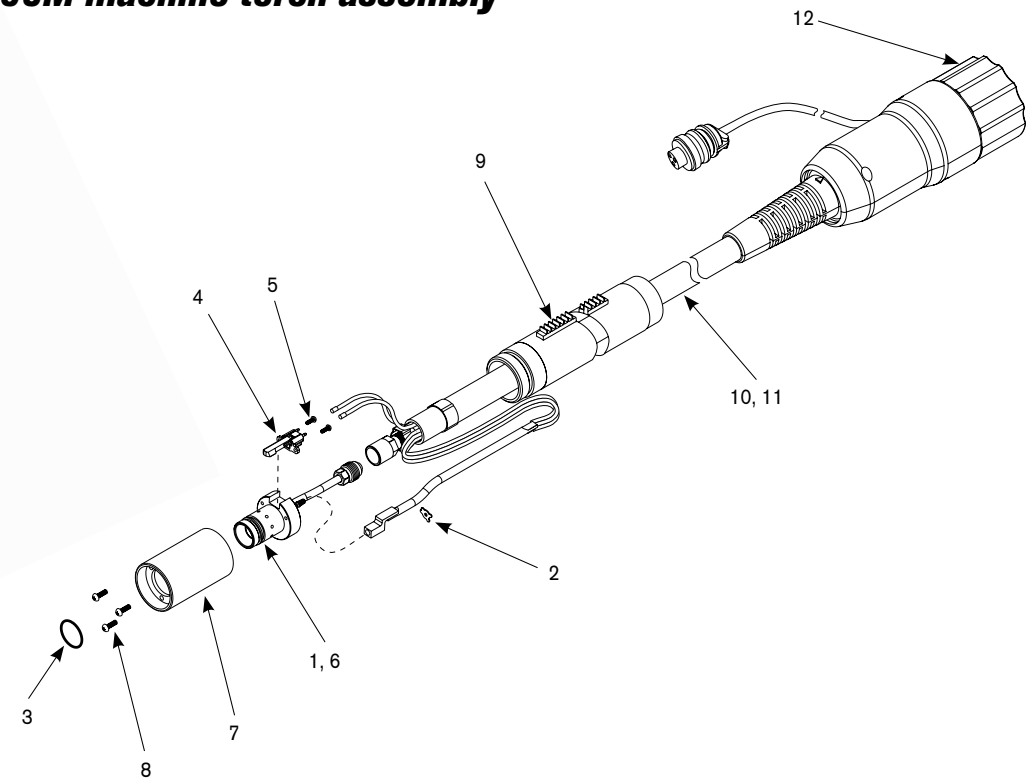


	Shield / Deflector	Retaining cap	Nozzle	Electrode	Swirl ring
40 A	120979	120928	220329	120926*	120925
40 A CE	220325	120928	220329	120926*	120925
Ohmic	220404	220061			

*Consumables available in a bulk package option, see page 27 for bulk package information.

RT80M for Powermax1100

RT80M machine torch assembly



Assembly

	Part number	Description
	087035*	RT80M machine torch assembly with 7.6 m (25') leads
	087036*	RT80M machine torch assembly with 15.2 m (50') 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, 7.6 m (25')
11.	128828	Torch lead replacement, 15.2 m (50')
12.	128926	Kit: quick disconnect repair
	128645	Torch mounting kit (for reassembly after installation)

*Assembly includes consumables.

Appendix

Hypertherm is dedicated to providing the latest in technological advancements that deliver on the performance demands critical to customers. To encourage the adoption of the latest in Hypertherm technology offerings, a torch obsolescence program was launched in 2012. The program involves torches for Powermax65/85 original torches and legacy Powermax600/800/900/1000/1250/1650 and MAX42/43 systems. The benefits in supporting this obsolescence plan include:

- **Consolidation of torch SKUs** –the torch obsolescence plan reduces the number of torch SKUs available for purchase from 85 to 27.
- **Consolidation of consumable SKUs** – once you convert your customers to Duramax torches, Powermax65/85/105 consumables may be ordered instead of standard "T style" consumables.
- **Save money** – upgrade/retrofit torches are priced comparably to standard torches. In some cases, the upgrade torches are priced significantly less than the current standard torch offering.
- **Satisfy customer needs** – the newest torches and consumables are designed to enhance both cut quality and consumable life and improve overall productivity to ensure the utmost in consumer satisfaction.

The following charts identify replacement torches by system. Please note that as of **January 1, 2013** all remaining PAC123T, PAC125T and PAC135T 7.6 m (25') handheld torch assembly replacements have been discontinued. In addition, all lead replacement kits and torch bodies have been discontinued for T60, T60M, T80 and T80M torches. While Hypertherm is discontinuing many torch assemblies, **all consumables for all systems will remain available**.

MAX42 and MAX43 systems Duramax retrofit torches

Original part number	Description	Duramax part number	Replacement description
071069	PAC121P/43 hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
071070	PAC121P/43 hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083215	RT60 hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083216	RT60 hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083217	RT60M machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083218	RT60M machine torch assembly 50'	228921	Duramax RT mechanized torch assembly 50'

Powermax600 Duramax retrofit torches

Original part number	Description	Duramax part number	Replacement description
086001	PAC123T hand torch assembly 15'	228918	Duramax RT hand torch assembly 25' (no QDisc)
086002	PAC123T hand torch assembly 25'	228918	Duramax RT hand torch assembly 25' (no QDisc)
086003	PAC123T hand torch assembly 50'	228919	Duramax RT hand torch assembly 50' (no QDisc)
086004	PAC123M machine torch assembly 15'	228922	Duramax RT mechanized torch assembly 25' (no QDisc)
086005	PAC123M machine torch assembly 25'	228922	Duramax RT mechanized torch assembly 25' (no QDisc)
086006	PAC123M machine torch assembly 50'	228923	Duramax RT mechanized torch assembly 50' (no QDisc)
086023	PAC123T hand torch assembly 15' QDisc	228916	Duramax RT hand torch assembly 25'
086024	PAC123T hand torch assembly 25' QDisc	228916	Duramax RT hand torch assembly 25'
086025	PAC123T hand torch assembly 50' QDisc	228917	Duramax RT hand torch assembly 50'
086026	PAC123M machine torch assembly 15' QDisc	228920	Duramax RT mechanized torch assembly 25'
086027	PAC123M machine torch assembly 25' QDisc	228920	Duramax RT mechanized torch assembly 25'
086029	PAC123M machine torch assembly 50' QDisc	228921	Duramax RT mechanized torch assembly 50'
083215	RT60 hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083216	RT60 hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083217	RT60M machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083218	RT60M machine torch assembly 50'	228921	Duramax RT mechanized torch assembly 50'

Powermax800 and Powermax900 Duramax retrofit torches

Original part number	Description	Duramax part number	Replacement description
083066	PAC125T hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083067	PAC125T hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083068	PAC125M machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083069	PAC125M machine torch assembly 15'	228920	Duramax RT mechanized torch assembly 25'
083070	PAC125M machine torch assembly 35' QDisc	228921	Duramax RT mechanized torch assembly 50'
083071	PAC125M machine torch assembly 50' QDisc	228921	Duramax RT mechanized torch assembly 50'
083072	PAC125M machine torch assembly no-PGT 25'	228920	Duramax RT mechanized torch assembly 25'
083073	PAC125M machine torch assembly no-PGT 15'	228920	Duramax RT mechanized torch assembly 25'
083074	PAC125M machine torch assembly no-PGT 35'	228921	Duramax RT mechanized torch assembly 50'
083075	PAC125M machine torch assembly no-PGT 50'	228921	Duramax RT mechanized torch assembly 50'
083127	PAC125T-40A hand torch assembly 15'	228916	Duramax RT hand torch assembly 25'
083128	PAC125T-40A hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083129	PAC125T-40A hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083130	PAC125T-50A hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083131	PAC125T-50A hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083133	PAC125M-40A machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083135	PAC125M-40A machine torch assembly 50'	228921	Duramax RT mechanized torch assembly 50'
083136	PAC125M-50A machine torch assembly 14'	228920	Duramax RT mechanized torch assembly 25'
083137	PAC125M-50A machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083138	PAC125M-50A machine torch assembly 35'	228921	Duramax RT mechanized torch assembly 50'
083139	PAC125M-50A machine torch assembly 50'	228921	Duramax RT mechanized torch assembly 50'
083140	PAC125M-50A machine torch no-PGTL 14'	228920	Duramax RT mechanized torch assembly 25'
083141	PAC125M-50A machine torch no-PGTL 25'	228920	Duramax RT mechanized torch assembly 25'
083142	PAC125M-50A machine torch no-PGTL 35'	228921	Duramax RT mechanized torch assembly 50'
083143	PAC125M-50A machine torch no-PGTL 50'	228921	Duramax RT mechanized torch assembly 50'
083145	PAC125M machine torch 35 mm SLV 25' QDisc	N/A	
083148	PAC125M machine torch 35 mm SLV 50' QDisc	N/A	
083215	RT60 hand torch assembly 25'	228916	Duramax RT hand torch assembly 25'
083216	RT60 hand torch assembly 50'	228917	Duramax RT hand torch assembly 50'
083217	RT60M machine torch assembly 25'	228920	Duramax RT mechanized torch assembly 25'
083218	RT60M machine torch assembly 50'	228921	Duramax RT mechanized torch assembly 50'

Powermax1000 T100 replacement torches

Original part number	Description	T100 part number	T100 replacement description
083171	T60 hand torch assembly 50'	059499	T100 hand torch assembly 50' w/o consumables
083172	T60 hand torch assembly 25'	059498	T100 hand torch assembly 25' w/o consumables
083174	T60M machine torch 60A 25'	059501	T100M-2 machine torch assembly 25' w/o consumables
083175	T60M machine torch 60A 15'	059501	T100M-2 machine torch assembly 25' w/o consumables
083176	T60M machine torch 60A 35'	059502	T100M-2 machine torch assembly 35' w/o consumables
083177	T60M machine torch 60A 50'	059503	T100M-2 machine torch assembly 50' w/o consumables
083200	T60M machine torch 60A 35 mm 50'	059507	T100M-2 machine torch assembly 35 mm 50' w/o consumables
083201	T60M machine torch 60A 35 mm 35'	059506	T100M-2 machine torch assembly 35 mm 35' w/o consumables
083202	T60M machine torch 60A 35 mm 15'	059505	T100M-2 machine torch assembly 35 mm 25' w/o consumables
083203	T60M machine torch 60A 35 mm 25'	059505	T100M-2 machine torch assembly 35 mm 25' w/o consumables
083208	T60 hand torch assembly 75'	059500	T100 hand torch assembly 75' w/o consumables
083209	T60M machine torch 60A 75'	059504	T100M-2 machine torch assembly75' w/o consumables
083214	T60M machine torch 60A 35 mm 75'	059508	T100M-2 machine torch assembly35 mm 75' w/o consumables
083226	T60M-2 machine torch 60A 75'	059504	T100M-2 machine torch assembly75' w/o consumables
083232	T60M machine torch ohmic 25'	Not available	
083233	T60M machine torch ohmic 50'	Not available	
083244	T60M-2 machine torch assembly 35 mm 75'	059508	T100M-2 machine torch assembly35 mm 75' w/o consumables

Powermax1000 Duramax retrofit torches

Original part number	Description	Duramax part number	Replacement description
083171	T60 hand torch assembly 50'	228789	Duramax HRT handheld 50'
083172	T60 hand torch assembly 25'	228788	Duramax HRT handheld 25'
083174	T60M machine torch 60A 25'	228790	Duramax MRT mechanized 25'
083175	T60M machine torch 60A 15'	228790	Duramax MRT mechanized 25'
083176	T60M machine torch 60A 35'	228791	Duramax MRT mechanized 50'
083177	T60M machine torch 60A 50'	228791	Duramax MRT mechanized 50'

Powermax1100 RT80 torch replacements

Original part number	Description	RT80 part number	RT80 replacement description
085001	PAC135T hand torch assembly 25' QDisc	087033	RT80 hand torch 25'
085061	PAC135T hand torch assembly 50' QDisc	087034	RT80 hand torch 50'
085062	PAC135M machine torch assembly 14' QDisc	087035	RT80 mechanized torch 25'
085063	PAC135M machine torch assembly 25' QDisc	087035	RT80 mechanized torch 25'
085064	PAC135M machine torch assembly 35' QDisc	087036	RT80 mechanized torch 50'
085065	PAC135M machine torch assembly 50' QDisc	087036	RT80 mechanized torch 50'

Powermax1250 Duramax retrofit torches

Original part number	Description	Duramax part number	Replacement description
087001	T80 hand torch assembly 25'	228788	Duramax HRT handheld 25'
087002	T80 hand torch assembly 50'	228789	Duramax HRT handheld 50'
087003	T80M machine torch 80A 15'	228790	Duramax MRT mechanized 25'
087004	T80M machine torch 80A 25'	228790	Duramax MRT mechanized 25'
087005	T80M machine torch 80A 35'	228791	Duramax MRT mechanized 50'
087006	T80M machine torch 80A 50'	228791	Duramax MRT mechanized 50'
087029	T80M machine torch 80A 35 mm 15'	Not available	
087030	T80M machine torch 80A 35 mm 25'	Not available	
087031	T80M machine torch 80A 35 mm 50'	Not available	
087032	T80M machine torch 80A 35 mm 35'	Not available	
087047	T80 hand torch assembly 75'	Not available	
087048	T80M machine torch 80A 75'	Not available	
087064	T80M-2 machine torch 80A 75'	Not available	
087065	T80M machine torch ohmic 25’	Not available	
087066	T80M machine torch ohmic 50’	Not available	
087082	T80M-2 machine torch assembly 35 mm 75'	Not available	

Powermax1250 T100 replacement torches

Original part number	Description	T100 part number	T100 replacement description
087001	T80 hand torch assembly 25'	059498	T100 hand torch assembly 25' w/o consumables
087002	T80 hand torch assembly 50'	059499	T100 hand torch assembly 50' w/o consumables
087003	T80M machine torch 80A 15'	059501	T100M-2 machine torch assembly 25' w/o consumables
087004	T80M machine torch 80A 25'	059501	T100M-2 machine torch assembly 25' w/o consumables
087005	T80M machine torch 80A 35'	059502	T100M-2 machine torch assembly 35' w/o consumables
087006	T80M machine torch 80A 50'	059503	T100M-2 machine torch assembly 50' w/o consumables
087029	T80M machine torch 80A 35 mm 15'	059505	T100M-2 machine torch assembly 35 mm 25' w/o consumables
087030	T80M machine torch 80A 35 mm 25'	059505	T100M-2 machine torch assembly 35 mm 25' w/o consumables
087031	T80M machine torch 80A 35 mm 50'	059507	T100M-2 machine torch assembly 35 mm 50' w/o consumables
087032	T80M machine torch 80A 35 mm 35'	059506	T100M-2 machine torch assembly 35 mm 35' w/o consumables
087047	T80 hand torch assembly 75'	059500	T100 hand torch assembly 75' w/o consumables
087048	T80M machine torch 80A 75'	059504	T100M-2 machine torch assembly 75' w/o consumables
087064	T80M-2 machine torch 80A 75'	059504	T100M-2 machine torch assembly 75' w/o consumables
087065	T80M machine torch ohmic 25’	Not available	
087066	T80M machine torch ohmic 50’	Not available	
087082	T80M-2 machine torch assembly 35 mm 75'	059508	T100M-2 machine torch assembly 35 mm 75' w/o consumables

Powermax1650 Duramax replacement torches

Original part number	Description	Duramax part number	Replacement description
059264	T100 hand torch assembly 25'	228788	Duramax HRT handheld 25'
059270	T100 hand torch assembly 50'	228789	Duramax HRT handheld 50'
059299	T100 hand torch assembly 75'	Not available	
059315	T100M-2 machine torch assembly 25'	228790	Duramax MRT mechanized 25'
059324	T100M-2 machine torch assembly 35'	228791	Duramax MRT mechanized 50'
059325	T100M-2 machine torch assembly 50'	228791	Duramax MRT mechanized 50'
059326	T100M-2 machine torch assembly 75'	Not available	
059333	T100M-2 machine torch assembly 35 mm 25'	Not available	
059334	T100M-2 machine torch assembly 35 mm 35'	Not available	
059335	T100M-2 machine torch assembly 35 mm 50'	Not available	
059336	T100M-2 machine torch assembly 35 mm 75'	Not available	

Powermax1650 T100 replacement torches

Original part number	Description	T100 part number	T100 replacement description
059264	T100 hand torch assembly 25'	059498	T100 hand torch assembly 25' w/o consumables
059270	T100 hand torch assembly 50'	059499	T100 hand torch assembly 50' w/o consumables
059299	T100 hand torch assembly 75'	059500	T100 hand torch assembly 75' w/o consumables
059315	T100M-2 machine torch assembly 25'	059501	T100M-2 machine torch assembly 25' w/o consumables
059324	T100M-2 machine torch assembly 35'	059502	T100M-2 machine torch assembly 35' w/o consumables
059325	T100M-2 machine torch assembly 50'	059503	T100M-2 machine torch assembly 50' w/o consumables
059326	T100M-2 machine torch assembly 75'	059504	T100M-2 machine torch assembly 75' w/o consumables
059333	T100M-2 machine torch assembly 35 mm 25'	059505	T100M-2 machine torch assembly 35 mm 25' w/o consumables
059334	T100M-2 machine torch assembly 35 mm 35'	059506	T100M-2 machine torch assembly 35 mm 35' w/o consumables
059335	T100M-2 machine torch assembly 35 mm 50'	059507	T100M-2 machine torch assembly 35 mm 50' w/o consumables
059336	T100M-2 machine torch assembly 35 mm 75'	059508	T100M-2 machine torch assembly 35 mm 75' w/o consumables

Powermax65 Duramax replacement torches

Original part number	Description	Duramax part number	Replacement description
083247	Powermax65 75° hand torch assembly 25'	059473	Powermax65/85/105 75° hand torch assembly 25'
083248	Powermax65 75° hand torch assembly 50'	059474	Powermax65/85/105 75° hand torch assembly 50'
083249	Powermax65 75° hand torch assembly 75'	059475	Powermax65/85/105 75° hand torch assembly 75'
083251	Powermax65 15° hand torch assembly 25'	059470	Powermax65/85/105 15° hand torch assembly 25'
083252	Powermax65 15° hand torch assembly 50'	059471	Powermax65/85/105 15° hand torch assembly 50'
083253	Powermax65 15° hand torch assembly 75'	059472	Powermax65/85/105 15° hand torch assembly 75'
083254	Powermax65 180° machine torch assembly 15'	059476	Powermax65/85/105 180° machine torch assembly 15'
083255	Powermax65 180° machine torch assembly 25'	059477	Powermax65/85/105 180° machine torch assembly 25'
083256	Powermax65 180° machine torch assembly 35'	059478	Powermax65/85/105 180° machine torch assembly 35'
083257	Powermax65 180° machine torch assembly 50'	059479	Powermax65/85/105 180° machine torch assembly 50'
083258	Powermax65 180 ° machine torch assembly 75'	059480	Powermax65/85/105 180° machine torch assembly 75'
083259	Powermax65 180 ° mini machine torch assembly 15'	059481	Powermax65/85/105 180° mini machine torch assembly 15'
083260	Powermax65 180° mini machine torch assembly 25'	059482	Powermax65/85/105 180° mini machine torch assembly 25'
083261	Powermax65 180° mini machine torch assembly 35'	059483	Powermax65/85/105 180° mini machine torch assembly 35'
083262	Powermax65 180° mini machine torch assembly 50'	059484	Powermax65/85/105 180° mini machine torch assembly 50'
083263	Powermax65 180° mini machine torch assembly 75'	Not available	

Powermax85 Duramax Replacement Torches

Original part number	Description	Duramax part number	Replacement description
087085	Powermax85 75° hand torch assembly 25'	059473	Powermax65/85/105 75° hand torch assembly 25'
087086	Powermax85 75° hand torch assembly 50'	059474	Powermax65/85/105 75° hand torch assembly 50'
087087	Powermax85 75° hand torch assembly 75'	059475	Powermax65/85/105 75° hand torch assembly 75'
087089	Powermax85 15° hand torch assembly 25'	059470	Powermax65/85/105 15° hand torch assembly 25'
087090	Powermax85 15° hand torch assembly 50'	059471	Powermax65/85/105 15° hand torch assembly 50'
087091	Powermax85 15° hand torch assembly 75'	059472	Powermax65/85/105 15° hand torch assembly 75'
087092	Powermax85 180° machine torch assembly 15'	059476	Powermax65/85/105 180° machine torch assembly 15'
087093	Powermax85 180° machine torch assembly 25'	059477	Powermax65/85/105 180° machine torch assembly 25'
087094	Powermax85 180° machine torch assembly 35'	059478	Powermax65/85/105 180° machine torch assembly 35'
087095	Powermax85 180° machine torch assembly 50'	059479	Powermax65/85/105 180° machine torch assembly 50'
087096	Powermax85 180° machine torch assembly 75'	059480	Powermax65/85/105 180° machine torch assembly 75'
087097	Powermax85 180° mini machine torch assembly 15'	059481	Powermax65/85/105 180° mini machine torch assembly 15'
087098	Powermax85 180° mini machine torch assembly 25'	059482	Powermax65/85/105 180° mini machine torch assembly 25'
087099	Powermax85 180° mini machine torch assembly 35'	059483	Powermax65/85/105 180° mini machine torch assembly 35'
087100	Powermax85 180° mini machine torch assembly 50'	059484	Powermax65/85/105 180° mini machine torch assembly 50'
087101	Powermax85 180° mini machine torch assembly 75'	Not available	

Powermax65 and Powermax85 torch and lead replacement kits

Original part number	Description	Duramax part number	Replacement description
228717	Kit:H65/H85/HRT torch handle replacement	228954	Kit:Duramax HT/HRT torch handle replacement
228718	Kit:H65s/H85s torch handle replacement	228955	Kit:Duramax HTS/HRTS torch handle replacement
228723	Kit:H65/H85 torch lead replacement, 25'	Not available	
228724	Kit:H65/H85 torch lead replacement, 50'	Not available	
228725	Kit:H65/H85 torch lead replacement, 75'	Not available	
228727	Kit:H65s/H85s torch lead replacement, 25'	228959	Kit:Duramax hand torch lead replacement 25'
228728	Kit:H65s/H85s torch lead replacement, 50'	228960	Kit:Duramax hand torch lead replacement 50'
228729	Kit:H65s/H85s torch lead replacement, 75'	228961	Kit:Duramax hand torch lead replacement 75'
228784	Kit: Duramax HRT/HRTs lead replacement 25'	228952	Kit: Duramax HRT/HRTS 1/2" coupler lead replacement 25'
228785	Kit: Duramax HRT/HRTs lead replacement 50'	228953	Kit: Duramax HRT/HRTS 1/2" coupler lead replacement 50'

Hypertherm featured Duramax retrofit torches and CopperPlus electrode

Upgrade legacy systems to a Duramax retrofit torch and improve overall system performance. Duramax consumables provide longer consumable life and easy connectivity makes retrofitting the torch to older systems simple.

Duramax retrofit torches are available for the following systems:

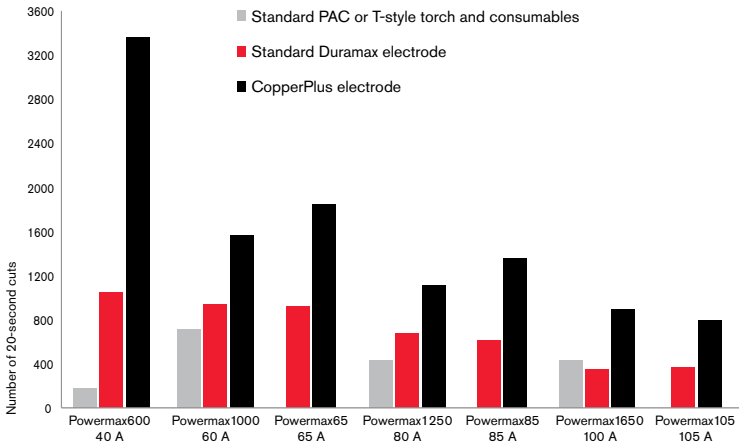
Powermax600
Powermax800
Powermax900
Powermax1000
Powermax1250
Powermax1650
MAX42/43

See catalog pages 85–91 for additional information or visit: hypetherm.com/upgrades for additional information.

CopperPlus electrode technology delivers at least **2 times longer consumable life** over standard consumables.* Designed exclusively for use with Duramax torches when cutting metal 12 mm (½ inch) and under, CopperPlus can reduce operating costs and cut more parts with less downtime.

* Standard consumables refer to the original Hypertherm consumables designed for the system.

CopperPlus part number 220777



Note: Lab testing shows that CopperPlus will deliver at least 2 times longer consumable life in most cases; consumable life may vary depending on the system, amperage and process.

Hypertherm®

Cut with confidence®

Greener Cuts

Environmental stewardship is a core value of Hypertherm. Our Powermax products are engineered to meet and exceed global environmental regulations including the RoHS directive.

© 7/2013 Hypertherm Inc. Revision 10
880200

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