



THE STANDARD  
IN TIG WELDING

PRODUCT CATALOG



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THE CHOICE OF  
MASTER CRAFTSMEN

[www.CKWORLDWIDE.com](http://www.CKWORLDWIDE.com)

MADE IN THE U.S.A.

Phone: 1 (800) 426-0877

FORM 4500 SEPTEMBER 2015



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Look for these exclusive MasterTIG™ CK Worldwide-developed TIG technologies throughout this catalog. Each has been developed to maximize efficiencies in various applications. *See Pages: 10–21.*

## TRIM-LINE™ TORCHES

**SIGNIFICANTLY REDUCE THE SIZE & WEIGHT OF YOUR TORCH WHILE MAINTAINING SIMILAR AMPERAGE CAPACITY!!**



- Replaceable heat shield insulator
- Silicone rubber torch body insulation

*CK Trim-Line™ torches provide comfortable compact design!*

- Larger coolant passage in head
- Hardened alloy head and stock
- Trim-Line™ Torches are smaller and lighter

*See Pages: 6, 8, 16, 20*

# TRIM-LINE™

## MAX-FLO™ INCREASED COOLING CAPACITY



Industry standard



MAX-FLO

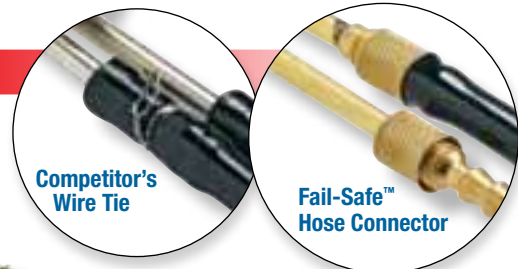
**IMPROVED COOLING CAPACITY, INCREASES AMPERAGE CAPACITY AND PROVIDES LONGER CONSUMABLE LIFE.**

- Up to 4 times the surface area for maximum heat transfer
- Cooler running torch
- Increased amperage capacity
- Longer consumable life
- Less down time
- Will hook up to standard cables and hoses
- Brass vs Copper

*See Pages: 7, 8, 17–20*

## FAIL-SAFE™ HOSE CONNECTORS

**FAIL-SAFE™ CONNECTORS OUTPERFORM COMPETITOR'S STANDARD WIRE TIES FOR YEARS OF DEPENDABLE SERVICE.**



Competitor's Wire Tie

Fail-Safe™ Hose Connector

## GAS SAVER™ WEDGE COLLET

**LASTS 10 TIMES LONGER THAN STANDARD SPLIT COLLETS. IMPROVES ARC STARTS AND ARC STABILITY. FITS ANY STANDARD COLLET BODY OR GAS LENS.**

Slots weaken the collet allowing it to twist, deform, or jam



Precision angled end cut gives "wedge" action for firm hold

*See Page: 22*

## FLEX-LOC™ TORCHES

- 360 degree variable angle torch head
- Locks in any position
- Interchangeable head allows different configurations and head sizes
- Great for "walking the cup" on open root welds for pipe welding
- Access hard to reach welds ergonomically
- Helps prevent carpal tunnel syndrome



360°

### APPLICATIONS:

Cup walking on pipe root welds or welds that require a mirror to access weldment.

*See Pages: 14, 15, 19*

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## CK9 GAS-COOLED

### CK9 & CK9V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK9-12-R RG	CK9-12-RSF RG
		25 ft. (7.6m)	CK9-25-R RG	CK9-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK9-12-2 RG	CK9-12-2SF RG
		25 ft. (7.6m)	CK9-25-2 RG	CK9-25-2SF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK9V-12-R RG	CK9V-12-RSF RG
		25 ft. (7.6m)	CK9V-25-R RG	CK9V-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK9V-12-2 RG	CK9V-12-2SF RG
		25 ft. (7.6m)	CK9V-25-2 RG	CK9V-25-2SF RG

- Gas-Cooled
- 125 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 2-3/4 oz (78gm)
- 2 Series Head Accessories



### CK9 & CK9V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	CK9-12-R FX	CK9-12-RSF FX
		25 ft. (7.6m)	CK9-25-R FX	CK9-25-RSF FX
	2 Piece	12½ ft. (3.8m)	CK9-12-2 FX	CK9-12-2SF FX
		25 ft. (7.6m)	CK9-25-2 FX	CK9-25-2SF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK9V-12-R FX	CK9V-12-RSF FX
		25 ft. (7.6m)	CK9V-25-R FX	CK9V-25-RSF FX
	2 Piece	12½ ft. (3.8m)	CK9V-12-2 FX	CK9V-12-2SF FX
		25 ft. (7.6m)	CK9V-25-2 FX	CK9V-25-2SF FX

- Gas-Cooled
- 125 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 3-1/2 oz (99gm)
- 2 Series Head Accessories



### CK9P & CK9PV PENCIL

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK9P-12-R	CK9P-12-RSF
		25 ft. (7.6m)	CK9P-25-R	CK9P-25-RSF
	2 Piece	12½ ft. (3.8m)	CK9P-12-2	CK9P-12-2SF
		25 ft. (7.6m)	CK9P-25-2	CK9P-25-2SF
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK9PV-12-R	CK9PV-12-RSF
		25 ft. (7.6m)	CK9PV-25-R	CK9PV-25-RSF
	2 Piece	12½ ft. (3.8m)	CK9PV-12-2	CK9PV-12-2SF
		25 ft. (7.6m)	CK9PV-25-2	CK9PV-25-2SF

- Gas-Cooled
- 125 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories



#### CK9 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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## CK17 GAS-COOLED CONTINUED ON NEXT PAGE

### CK17 & CK17V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK17-12-R RG	CK17-12-RSF RG
		25 ft. (7.6m)	CK17-25-R RG	CK17-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK17-12-2 RG	CK17-12-2SF RG
		25 ft. (7.6m)	CK17-25-2 RG	CK17-25-2SF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK17V-12-R RG	CK17V-12-RSF RG
		25 ft. (7.6m)	CK17V-25-R RG	CK17V-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK17V-12-2 RG	CK17V-12-2SF RG
		25 ft. (7.6m)	CK17V-25-2 RG	CK17V-25-2SF RG

- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories



#### CK17 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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## CK17 GAS-COOLED CONTINUED

### CK17 & CK17V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	<b>CK17-12-R FX</b>	<b>CK17-12-RSF FX</b>
		25 ft. (7.6m)	<b>CK17-25-R FX</b>	<b>CK17-25-RSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK17-12-2 FX</b>	<b>CK17-12-2SF FX</b>
		25 ft. (7.6m)	<b>CK17-25-2 FX</b>	<b>CK17-25-2SF FX</b>
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK17V-12-R FX</b>	<b>CK17V-12-RSF FX</b>
		25 ft. (7.6m)	<b>CK17V-25-R FX</b>	<b>CK17V-25-RSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK17V-12-2 FX</b>	<b>CK17V-12-2SF FX</b>
		25 ft. (7.6m)	<b>CK17V-25-2 FX</b>	<b>CK17V-25-2SF FX</b>

- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-3/4" (22.2cm) 5 oz (141gm)
- 3 Series Head Accessories

### CK17RG-T & CK17VRG-T THREAD-ON HANDLE

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK17-12-R RG-T</b>	<b>CK17-12-RSFRG-T</b>
		25 ft. (7.6m)	<b>CK17-25-R RG-T</b>	<b>CK17-25-RSFRG-T</b>
	2 Piece	12½ ft. (3.8m)	<b>CK17-12-2 RG-T</b>	<b>CK17-12-2SFRG-T</b>
		25 ft. (7.6m)	<b>CK17-25-2 RG-T</b>	<b>CK17-25-2SFRG-T</b>
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK17V-12-R RG-T</b>	<b>CK17V-12-RSFRGT</b>
		25 ft. (7.6m)	<b>CK17V-25-R RG-T</b>	<b>CK17V-25-RSFRGT</b>
	2 Piece	12½ ft. (3.8m)	<b>CK17V-12-2 RG-T</b>	<b>CK17V-12-2SFRGT</b>
		25 ft. (7.6m)	<b>CK17V-25-2 RG-T</b>	<b>CK17V-25-2SFRGT</b>

**NEW!**

- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories

**THREADED HANDLE**

### CK17P PENCIL

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK17P-12-R</b>	<b>CK17P-12-RSF</b>
		25 ft. (7.6m)	<b>CK17P-25-R</b>	<b>CK17P-25-RSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK17P-12-2</b>	<b>CK17P-12-2SF</b>
		25 ft. (7.6m)	<b>CK17P-25-2</b>	<b>CK17P-25-2SF</b>

- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 3 Series Head Accessories

### CK17 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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## CK24 GAS-COOLED

### CK24 & CK24V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK24-12-R RG</b>	<b>CK24-12-RSF RG</b>
		25 ft. (7.6m)	<b>CK24-25-R RG</b>	<b>CK24-25-RSF RG</b>
	2 Piece	12½ ft. (3.8m)	<b>CK24-12-2 RG</b>	<b>CK24-12-2SF RG</b>
		25 ft. (7.6m)	<b>CK24-25-2 RG</b>	<b>CK24-25-2SF RG</b>
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK24V-12-R RG</b>	<b>CK24V-12-RSF RG</b>
		25 ft. (7.6m)	<b>CK24V-25-R RG</b>	<b>CK24V-25-RSF RG</b>
	2 Piece	12½ ft. (3.8m)	<b>CK24V-12-2 RG</b>	<b>CK24V-12-2SF RG</b>
		25 ft. (7.6m)	<b>CK24V-25-2 RG</b>	<b>CK24V-25-2SF RG</b>

- Gas-Cooled
- 80 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 2-1/4 oz (64gm)
- 8 Series Head Accessories


### CK24 & CK24V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	<b>CK24-12-R FX</b>	<b>CK24-12-RSF FX</b>
		25 ft. (7.6m)	<b>CK24-25-R FX</b>	<b>CK24-25-RSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK24-12-2 FX</b>	<b>CK24-12-2SF FX</b>
		25 ft. (7.6m)	<b>CK24-25-2 FX</b>	<b>CK24-25-2SF FX</b>
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK24V-12-R FX</b>	<b>CK24V-12-RSF FX</b>
		25 ft. (7.6m)	<b>CK24V-25-R FX</b>	<b>CK24V-25-RSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK24V-12-2 FX</b>	<b>CK24V-12-2SF FX</b>
		25 ft. (7.6m)	<b>CK24V-25-2 FX</b>	<b>CK24V-25-2SF FX</b>

- Gas-Cooled
- 90 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 2-1/4 oz (64gm)
- 8 Series Head Accessories

### CK24 REPLACEMENT PART PAGE LOCATOR:

8 Series Consumables: 57	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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## CK26 GAS-COOLED

CK26 & CK26V RIGID				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK26-12-R RG	CK26-12-RSF RG
		25 ft. (7.6m)	CK26-25-R RG	CK26-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK26-12-2 RG	CK26-12-2SF RG
		25 ft. (7.6m)	CK26-25-2 RG	CK26-25-2SF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK26V-12-R RG	CK26V-12-RSF RG
		25 ft. (7.6m)	CK26V-25-R RG	CK26V-25-RSF RG
	2 Piece	12½ ft. (3.8m)	CK26V-12-2 RG	CK26V-12-2SF RG
		25 ft. (7.6m)	CK26V-25-2 RG	CK26V-25-2SF RG

CK26 & CK26V FLEX				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	CK26-12-R FX	CK26-12-RSF FX
		25 ft. (7.6m)	CK26-25-R FX	CK26-25-RSF FX
	2 Piece	12½ ft. (3.8m)	CK26-12-2 FX	CK26-12-2SF FX
		25 ft. (7.6m)	CK26-25-2 FX	CK26-25-2SF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK26V-12-R FX	CK26V-12-RSF FX
		25 ft. (7.6m)	CK26V-25-R FX	CK26V-25-RSF FX
	2 Piece	12½ ft. (3.8m)	CK26V-12-2 FX	CK26V-12-2SF FX
		25 ft. (7.6m)	CK26V-25-2 FX	CK26V-25-2SF FX

CK26P PENCIL				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK26P-12-R	CK26P-12-RSF
		25 ft. (7.6m)	CK26P-25-R	CK26P-25-RSF
	2 Piece	12½ ft. (3.8m)	CK26P-12-2	CK26P-12-2SF
		25 ft. (7.6m)	CK26P-25-2	CK26P-25-2SF

**CK26 REPLACEMENT PART PAGE LOCATOR:**

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 7-1/2 oz (212gm)
- 3 Series Head Accessories



- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-5/8" (24.4cm) 7-1/2 oz (212gm)
- 3 Series Head Accessories



- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 3 Series Head Accessories

## TL26 GAS-COOLED

TL26 & TL26V RIGID TRIM-LINE™ SERIES				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	TL26-12-R RG	TL26-12-RSF RG
		25 ft. (7.6m)	TL26-25-R RG	TL26-25-RSF RG
	2 Piece	12½ ft. (3.8m)	TL26-12-2 RG	TL26-12-2SF RG
		25 ft. (7.6m)	TL26-25-2 RG	TL26-25-2SF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	TL26V-12-R RG	TL26V-12-RSF RG
		25 ft. (7.6m)	TL26V-25-R RG	TL26V-25-RSF RG
	2 Piece	12½ ft. (3.8m)	TL26V-12-2 RG	TL26V-12-2SF RG
		25 ft. (7.6m)	TL26V-25-2 RG	TL26V-25-2SF RG

TL26 & TL26V FLEX TRIM-LINE™ SERIES				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	TL26-12-R FX	TL26-12-RSF FX
		25 ft. (7.6m)	TL26-25-R FX	TL26-25-RSF FX
	2 Piece	12½ ft. (3.8m)	TL26-12-2 FX	TL26-12-2SF FX
		25 ft. (7.6m)	TL26-25-2 FX	TL26-25-2SF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	TL26V-12-R FX	TL26V-12-RSF FX
		25 ft. (7.6m)	TL26V-25-R FX	TL26V-25-RSF FX
	2 Piece	12½ ft. (3.8m)	TL26V-12-2 FX	TL26V-12-2SF FX
		25 ft. (7.6m)	TL26V-25-2 FX	TL26V-25-2SF FX

**TL26 REPLACEMENT PART PAGE LOCATOR:**

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 45	Adapter/Dinse: 39-42, 44
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- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories



- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories



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## CK18 WATER-COOLED

### CK18 & CK18V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK18-12</b>	<b>CK18-12SF</b>
		25 ft. (7.6m)	<b>CK18-25</b>	<b>CK18-25SF</b>
Rigid Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK18V-12</b>	<b>CK18V-12SF</b>
		25 ft. (7.6m)	<b>CK18V-25</b>	<b>CK18V-25SF</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 6-1/2 oz (184gm)
- 3 Series Head Accessories



MAX-FLO

### CK18 & CK18V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	3 Piece	12½ ft. (3.8m)	<b>CK18-12 FX</b>	<b>CK18-12SF FX</b>
		25 ft. (7.6m)	<b>CK18-25 FX</b>	<b>CK18-25SF FX</b>
Flex Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK18V-12 FX</b>	<b>CK18V-12SF FX</b>
		25 ft. (7.6m)	<b>CK18V-25 FX</b>	<b>CK18V-25SF FX</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 6-1/2 oz (184gm)
- 3 Series Head Accessories



MAX-FLO

### CK18P PENCIL RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK18P-12</b>	<b>CK18P-12SF</b>
		25 ft. (7.6m)	<b>CK18P-25</b>	<b>CK18P-25SF</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 3 Series Head Accessories



### CK18 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: <b>55</b>	Torch: <b>51</b>	Handle: <b>51</b>	Cables: <b>45</b>	Adapter/Dinse: <b>39-42, 44</b>
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### CK18 & CK18V RIGID EXTRA HEAVY DUTY SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK18-12-R</b>	<b>CK18-12-RSF</b>
		25 ft. (7.6m)	<b>CK18-25-R</b>	<b>CK18-25-RSF</b>
Rigid Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK18V-12-R</b>	<b>CK18V-12-RSF</b>
		25 ft. (7.6m)	<b>CK18V-25-R</b>	<b>CK18V-25-RSF</b>

- Water-Cooled
- 400 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 6-1/2 oz (184gm)
- 3 Series Head Accessories



MAX-FLO

The CK18 Heavy Duty uses the same power cable and lines as the CK510, located on page 48.

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## TL18 WATER-COOLED

### TL18 & TL18V RIGID TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>TL18-12</b>	<b>TL18-12SF</b>
		25 ft. (7.6m)	<b>TL18-25</b>	<b>TL18-25SF</b>
Rigid Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>TL18V-12</b>	<b>TL18V-12SF</b>
		25 ft. (7.6m)	<b>TL18V-25</b>	<b>TL18V-25SF</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 5 oz (141gm)
- 3 Series Head Accessories



### TL18 & TL18V FLEX TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	3 Piece	12½ ft. (3.8m)	<b>TL18-12 FX</b>	<b>TL18-12SF FX</b>
		25 ft. (7.6m)	<b>TL18-25 FX</b>	<b>TL18-25SF FX</b>
Flex Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>TL18V-12 FX</b>	<b>TL18V-12SF FX</b>
		25 ft. (7.6m)	<b>TL18V-25 FX</b>	<b>TL18V-25SF FX</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 5 oz (141gm)
- 3 Series Head Accessories



### TL18 REPLACEMENT PART PAGE LOCATOR:

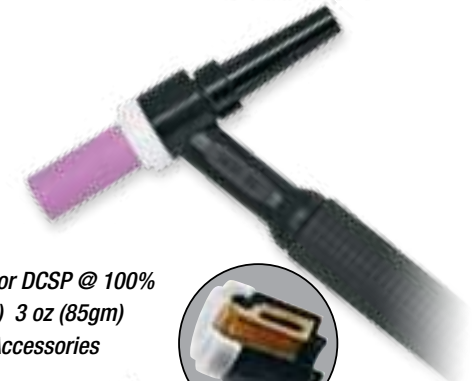
3 Series Consumables: <b>55</b>	Torch: <b>51</b>	Handle: <b>51</b>	Cables: <b>46</b>	Adapter/Dinse: <b>39-42, 44</b>
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## CK20 WATER-COOLED

### CK20 & CK20V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK20-12</b>	<b>CK20-12SF</b>
		25 ft. (7.6m)	<b>CK20-25</b>	<b>CK20-25SF</b>
Rigid Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK20V-12</b>	<b>CK20V-12SF</b>
		25 ft. (7.6m)	<b>CK20V-25</b>	<b>CK20V-25SF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 3 oz (85gm)
- 2 Series Head Accessories



### CK20 & CK20V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	3 Piece	12½ ft. (3.8m)	<b>CK20-12 FX</b>	<b>CK20-12SF FX</b>
		25 ft. (7.6m)	<b>CK20-25 FX</b>	<b>CK20-25SF FX</b>
Flex Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK20V-12 FX</b>	<b>CK20V-12SF FX</b>
		25 ft. (7.6m)	<b>CK20V-25 FX</b>	<b>CK20V-25SF FX</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 3 oz (85gm)
- 2 Series Head Accessories



### CK20P PENCIL

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK20P-12</b>	<b>CK20P-12SF</b>
		25 ft. (7.6m)	<b>CK20P-25</b>	<b>CK20P-25SF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories



### CK20 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: <b>54</b>	Torch: <b>51</b>	Handle: <b>51</b>	Cables: <b>46</b>	Adapter/Dinse: <b>39-42, 44</b>
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## CK24W WATER-COOLED

### CK24W & CK24WV RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	3 Piece	12½ ft. (3.8m)	<b>CK24W-12</b>	<b>CK24W-12SF</b>
		25 ft. (7.6m)	<b>CK24W-25</b>	<b>CK24W-25SF</b>
Rigid Head w/ Valve	3 Piece	12½ ft. (3.8m)	<b>CK24WV-12</b>	<b>CK24WV-12SF</b>
		25 ft. (7.6m)	<b>CK24WV-25</b>	<b>CK24WV-25SF</b>

- Water-Cooled
- 180 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 3-1/2 oz (99gm)
- 8 Series Head Accessories



### CK24W REPLACEMENT PART PAGE LOCATOR:

8 Series Consumables: <b>57</b>	Torch: <b>51</b>	Handle: <b>51</b>	Cables: <b>46</b>	Adapter/Dinse: <b>39-42, 44</b>
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## CK25 PENCIL FLEX

### CK25 FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	3 Piece	12½ ft. (3.8m)	<b>CK25-12</b>	<b>CK25-12SF</b>
		25 ft. (7.6m)	<b>CK25-25</b>	<b>CK25-25SF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories



6" (15.2cm) Neck

\*Custom lengths available up to 10" (25.4cm)

### CK25 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: <b>54</b>	Torch: <b>51</b>	Handle: <b>51</b>	Cables: <b>46</b>	Adapter/Dinse: <b>39-42, 44</b>
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# REPLACEMENT PART LOCATOR

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STANDARD POWER CABLES .....	45-46
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## REPLACEMENT PART LOCATOR

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## THE CHOICE OF MASTER CRAFTSMEN

*“Master TIG Products are manufactured for today’s high-tech applications. CK Worldwide has designed innovative solutions to save money, increase productivity, reduce downtime and improve weld quality.”*

— Jeff Sharpe  
PRESIDENT



Our Master TIG Series torches are the highest quality TIG torches available on the market. We take personal pride in our products and have done our best to bring you the very best.

These torches have similar features to our Standard Series, but are specially engineered to be smaller, lighter, more compact, and extremely flexible.

# MASTER TIG REPLACEMENT PART LOCATOR

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CONSUMABLES .....	52-59



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# MICRO-TORCH CK EXCLUSIVE

- 70 or 140 Amps at 100% duty cycle, low profile micro torch
- 45°, 90° and 180° interchangeable heads
- Two clear Pyrex and one alumina nozzles fit on all three heads
- Torch is easily manipulated due to SUPER-FLEX™ Power Cables
- Tungsten installs easily with tungsten gauge and wrench

**70 amps**  
**Air-Cooled**  
**or**  
**140 amps**  
**Water-Cooled**



MICRO TORCH MASTER TIG SERIES



Micro Torch Kit (Part # **AK-MR**) included in torch package

Replacement Parts Accessory Kit on Page 58



**REPLACEABLE HEAD!**

## MR70 AIR-COOLED MICRO TORCH 70AMP

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Rigid Head	1 Piece SUPER-FLEX	12½ ft. (3.8m)	<b>MR712SF</b>
		25 ft. (7.6m)	<b>MR725SF</b>

### MR70 REPLACEMENT PART PAGE LOCATOR:

Micro Torch Consumables: <b>58</b>	Cables: <b>45</b>
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## MR140 WATER-COOLED MICRO TORCH 140AMP

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Rigid Head	3 Piece SUPER-FLEX	12½ ft. (3.8m)	<b>MR1412SF</b>
		25 ft. (7.6m)	<b>MR1425SF</b>

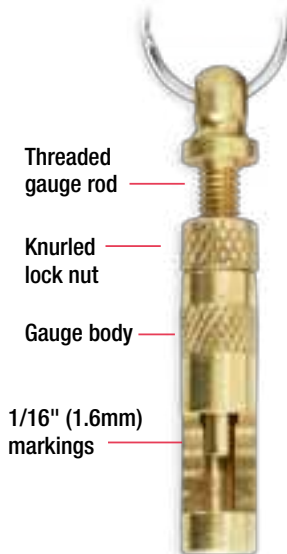
### MR140 REPLACEMENT PART PAGE LOCATOR:

Micro Torch Consumables: <b>58</b>	Cables: <b>46</b>
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- 45°, 90° and 180° interchangeable heads
- .040" (1.0mm), 1/16" (1.6mm) and 3/32" (2.4mm) collets
- 2 Clear Pyrex Cups
- 1 Alumina Cup
- 3 Pieces of Tungsten (3 different diameters)
- Tungsten Stick-Out Gauge and Wrench

### SPECIFICATIONS:

Neck Diameter ..... 0.31" (7.9mm)  
 Neck Length ..... 3.10" (78.7mm)  
 Cup Diameter ..... 0.36" (9.1mm)  
 Cup Length ..... 0.60" (15.2mm)



### TUNGSTEN STICK-OUT GAUGE

- Loosen knurled lock nut
- Turn threaded gauge rod to adjust gauge depth (markings are in 1/16" (1.6mm) increments)
- Lock gauge by turning knurled lock nut firmly against the gauge body

### TUNGSTEN SIZES:

Actual sizes shown

	.040" (1.0mm)
	1/16" (1.6mm)
	3/32" (2.4mm)

### 2% CERIATED TUNGSTEN, 0.9" LENGTH, PKG. 5

REPLACEMENT PART NUMBER	DIAMETER
<b>T0409S20GC2</b>	.040" (1.0mm)
<b>T1169S20GC2</b>	1/16" (1.6mm)
<b>T3329S20GC2</b>	3/32" (2.4mm)

### SPECIFICATIONS:

Length ..... 0.9" (22.9mm)  
 Grind ..... 20° Grind  
 Diameter ..... 0.040" (1.0mm)  
                   1/16" (1.6mm)  
                   3/32" (2.4mm)

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## OZMO TORCH CK EXCLUSIVE

### 80AMP OZMO TORCH GAS-COOLED

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Gas-Cooled Rigid	1 Piece	12½ ft. (3.8m)	CK24-12SF-OZMO
		25 ft. (7.6m)	CK24-25SF-OZMO

### 180AMP OZMO TORCH WATER-COOLED

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Water-Cooled Rigid	3 Piece	12½ ft. (3.8m)	CK24W-12SF-OZMO
		25 ft. (7.6m)	CK24W-25SF-OZMO

#### KIT-OZMO INCLUDES:

- 5 of 3/32" (2.4mm) Tungsten
- 2 Alumina Cups
- 2 Collets
- 2 Gas Lenses
- 1 Heatshield

**Kit Part #**  
**KIT-OZMO**



CUP	GAS LENS	COLLET	HEATSHIELD	TORCH
STANDARD PSNS8A6	STANDARD 8GL332	STANDARD PSNS8C332	STANDARD PSNSHSOZ	

8.5" (21.6cm)



#### 80AMP OZMO REPLACEMENT PARTS:

Torch Body: CK24    Handle: HS    Cables: 45\*

\*GAS-COOLED OZMO uses the same Power Cables as the CK24

#### 180AMP OZMO REPLACEMENT PARTS:

Torch Body: CK24W    Handle: HS    Cables: 46\*\*

\*\*WATER-COOLED OZMO uses the same Power Cables as the CK24W

#### GAS FLOW RATE:

All Position: 16–20 CFH

TUNGSTEN EXTENSION:

All Position: 1/4" max

#### ASSEMBLY INSTRUCTIONS:

Tighten gas lens with a wrench beyond finger tight.

#### TORCHES USED ON:

- CK24
- CK24W
- CK80
- CK90
- CK180

## CUT-DOWN GTAW TORCH CK EXCLUSIVE

### 80AMP CUT-DOWN GTAW TORCH GAS-COOLED

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Gas-Cooled Rigid	1 Piece	12½ ft. (3.8m)	CK24-12SF-CD
		25 ft. (7.6m)	CK24-25SF-CD

### 180AMP CUT-DOWN GTAW TORCH WATER-COOLED

HEAD STYLE	CABLE	LENGTH	SUPER-FLEX #
Water-Cooled Rigid	3 Piece	12½ ft. (3.8m)	CK24W-12SF-CD
		25 ft. (7.6m)	CK24W-25SF-CD

#### KIT-CD INCLUDES:

- 5 of 3/32" (2.4mm) Tungsten
- 2 Alumina Cups
- 2 Collets
- 2 Gas Lenses
- 1 Heatshield

**Kit Part #**  
**KIT-CD**



CUP	GAS LENS	COLLET	HEATSHIELD	TORCH
STANDARD PSNS2AG75	STANDARD PSNSGL332	STANDARD PSNSC332GS	STANDARD PSNSHS	

8.5" (21.6cm)



#### 80AMP CUT-DOWN REPLACEMENT PARTS:

Torch Body: CK24    Handle: HS    Cables: 45\*

\*GAS-COOLED CUT-DOWN uses the same Power Cable as the CK24

#### 180AMP CUT-DOWN REPLACEMENT PARTS:

Torch Body: CK24W    Handle: HS    Cables: 46\*\*

\*\*WATER-COOLED CUT-DOWN uses the same Power Cables as the CK24W

#### TORCHES USED ON:

- CK24
- CK24W
- CK80
- CK90
- CK180

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## CK80 GAS-COOLED

### CK80 & CK80V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK812H</b>	<b>CK812HSF</b>
		25 ft. (7.6m)	<b>CK825H</b>	<b>CK825HSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK812N</b>	<b>CK812NSF</b>
		25 ft. (7.6m)	<b>CK825N</b>	<b>CK825NSF</b>
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK812VH</b>	<b>CK812VHSF</b>
		25 ft. (7.6m)	<b>CK825VH</b>	<b>CK825VHSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK812VN</b>	<b>CK812VNSF</b>
		25 ft. (7.6m)	<b>CK825VN</b>	<b>CK825VNSF</b>

- Gas-Cooled
- 80 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 2-1/4 oz (64gm)
- 8 Series Head Accessories



### CK80 REPLACEMENT PART PAGE LOCATOR:

8 Series Consumables: 57 Torch: 51 Handle: 51 Cables: 46 Adapter/Dinse: 39-42, 44

## CK90 FLEX GAS-COOLED

### CK90 & CK90V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	<b>CK912H</b>	<b>CK912HSF</b>
		25 ft. (7.6m)	<b>CK925H</b>	<b>CK925HSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK912N</b>	<b>CK912NSF</b>
		25 ft. (7.6m)	<b>CK925N</b>	<b>CK925NSF</b>
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK912VH</b>	<b>CK912VHSF</b>
		25 ft. (7.6m)	<b>CK925VH</b>	<b>CK925VHSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK912VN</b>	<b>CK912VNSF</b>
		25 ft. (7.6m)	<b>CK925VN</b>	<b>CK925VNSF</b>

- Gas-Cooled
- 90 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 2-1/4 oz (64gm)
- 8 Series Head Accessories



### CK90 REPLACEMENT PART PAGE LOCATOR:

8 Series Consumables: 57 Torch: 51 Handle: 51 Cables: 46 Adapter/Dinse: 39-42, 44

## CK100 GAS-COOLED

### CK100 & CK100V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK112H</b>	<b>CK112HSF</b>
		25 ft. (7.6m)	<b>CK125H</b>	<b>CK125HSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK112N</b>	<b>CK112NSF</b>
		25 ft. (7.6m)	<b>CK125N</b>	<b>CK125NSF</b>
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK112VH</b>	<b>CK112VHSF</b>
		25 ft. (7.6m)	<b>CK125VH</b>	<b>CK125VHSF</b>
	2 Piece	12½ ft. (3.8m)	<b>CK112VN</b>	<b>CK112VNSF</b>
		25 ft. (7.6m)	<b>CK125VN</b>	<b>CK125VNSF</b>

- Gas-Cooled
- 125 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 2-3/4 oz (78gm)
- 2 Series Head Accessories



### CK100 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54 Torch: 51 Handle: 51 Cables: 46 Adapter/Dinse: 39-42, 44

## CK130 GAS-COOLED

CK130 & CK130V RIGID				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	<b>CK1312H RG</b>	<b>CK1312HSF RG</b>
		25 ft. (7.6m)	<b>CK1325H RG</b>	<b>CK1325HSF RG</b>
	2 Piece	12½ ft. (3.8m)	<b>CK1312N RG</b>	<b>CK1312NSF RG</b>
		25 ft. (7.6m)	<b>CK1325N RG</b>	<b>CK1325NSF RG</b>
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK1312VH RG</b>	<b>CK1312VHSF RG</b>
		25 ft. (7.6m)	<b>CK1325VH RG</b>	<b>CK1325VHSF RG</b>
	2 Piece	12½ ft. (3.8m)	<b>CK1312VN RG</b>	<b>CK1312VNSF RG</b>
		25 ft. (7.6m)	<b>CK1325VN RG</b>	<b>CK1325VNSF RG</b>

- Gas-Cooled
- 130 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 3-1/2 oz (99gm)
- 2 Series Head Accessories

CK130 & CK130V FLEX				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	<b>CK1312H FX</b>	<b>CK1312HSF FX</b>
		25 ft. (7.6m)	<b>CK1325H FX</b>	<b>CK1325HSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK1312N FX</b>	<b>CK1312NSF FX</b>
		25 ft. (7.6m)	<b>CK1325N FX</b>	<b>CK1325NSF FX</b>
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	<b>CK1312VH FX</b>	<b>CK1312VHSF FX</b>
		25 ft. (7.6m)	<b>CK1325VH FX</b>	<b>CK1325VHSF FX</b>
	2 Piece	12½ ft. (3.8m)	<b>CK1312VN FX</b>	<b>CK1312VNSF FX</b>
		25 ft. (7.6m)	<b>CK1325VN FX</b>	<b>CK1325VNSF FX</b>

- Gas-Cooled
- 130 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 3-1/2 oz (99gm)
- 2 Series Head Accessories

### CK130 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 46	Adapter/Dinse: 39-42, 44
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## CKPF130 PENCIL FLEX GAS-COOLED

CKPF130 PENCIL FLEX				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	<b>CKPF1312H</b>	<b>CKPF1312HSF</b>
		25 ft. (7.6m)	<b>CKPF1325H</b>	<b>CKPF1325HSF</b>

- GAS-COOLED
- 130 amp ACHF or DCSP @100%
- 11" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories

6" (15.2cm) Neck



\*Custom Lengths Available Up to 12" (30.2cm)

### CKPF130 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 46	Adapter/Dinse: 39-42, 44
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## FL130 GAS-COOLED

FL130 & FL130V FLEX-LOC SERIES				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
FL2L	1 Piece	12½ ft. (3.8m)	<b>FL1312</b>	<b>FL1312SF</b>
		25 ft. (7.6m)	<b>FL1325</b>	<b>FL1325SF</b>
FL2L w/Valve	1 Piece	12½ ft. (3.8m)	<b>FL1312V</b>	<b>FL1312VSF</b>
		25 ft. (7.6m)	<b>FL1325V</b>	<b>FL1325VSF</b>

- Gas-Cooled
- 130 Amps (w/FL2L) ACHF or DCSP @ 100%
- 7-3/4" (19.6cm) 4-3/4 oz (135gm)
- 2 Series Head Accessories
- FL2L Head

### FL130 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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360°



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## FL150 GAS-COOLED

FL150 & FL150V FLEX-LOC SERIES				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
FL3L	1 Piece	12½ ft. (3.8m)	FL1512	FL1512SF
		25 ft. (7.6m)	FL1525	FL1525SF
FL3L w/Valve	1 Piece	12½ ft. (3.8m)	FL1512V	FL1512VSF
		25 ft. (7.6m)	FL1525V	FL1525VSF

FL150 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39–42, 44
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- Gas-Cooled
- 150 Amps (w/FL3L) ACHF or DCSP @ 100%
- 8-1/2" (21.6cm) 7 oz (198gm)
- 3 Series Head Accessories
- FL3L Head



## CK150 GAS-COOLED

CK150 & CK150V RIGID				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK1512H RG	CK1512HSF RG
		25 ft. (7.6m)	CK1525H RG	CK1525HSF RG
	2 Piece	12½ ft. (3.8m)	CK1512N RG	CK1512NSF RG
		25 ft. (7.6m)	CK1525N RG	CK1525NSF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK1512VH RG	CK1512VHSF RG
		25 ft. (7.6m)	CK1525VH RG	CK1525VHSF RG
	2 Piece	12½ ft. (3.8m)	CK1512VN RG	CK1512VNSF RG
		25 ft. (7.6m)	CK1525VN RG	CK1525VNSF RG

CK150 & CK150V FLEX				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	CK1512H FX	CK1512HSF FX
		25 ft. (7.6m)	CK1525H FX	CK1525HSF FX
	2 Piece	12½ ft. (3.8m)	CK1512N FX	CK1512NSF FX
		25 ft. (7.6m)	CK1525N FX	CK1525NSF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK1512VH FX	CK1512VHSF FX
		25 ft. (7.6m)	CK1525VH FX	CK1525VHSF FX
	2 Piece	12½ ft. (3.8m)	CK1512VN FX	CK1512VNSF FX
		25 ft. (7.6m)	CK1525VN FX	CK1525VNSF FX

CK150 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 46	Adapter/Dinse: 39–42, 44
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- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories

- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-3/4" (22.2cm) 5 oz (141gm)
- 3 Series Head Accessories



## CKC150 GAS-COOLED CONTRACTOR SPECIAL

CKC150 & CKC150V RIGID				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CKC1512H	CKC1512HSF
		25 ft. (7.6m)	CKC1525H	CKC1525HSF
	2 Piece	12½ ft. (3.8m)	CKC1512N	CKC1512NSF
		25 ft. (7.6m)	CKC1525N	CKC1525NSF
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CKC1512VH	CKC1512VHSF
		25 ft. (7.6m)	CKC1525VH	CKC1525VHSF
	2 Piece	12½ ft. (3.8m)	CKC1512VN	CKC1512VNSF
		25 ft. (7.6m)	CKC1525VN	CKC1525VNSF

CKC150 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39–42, 44
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- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 7-3/4" (19.6cm) 4-1/2 oz (127gm)
- 3 Series Head Accessories
- Stainless Steel Head

STAINLESS STEEL HEAD

TWIST GAS VALVE



## CKM150 GAS-COOLED

CKM150				
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CKM1512H	CKM1512HSF
		25 ft. (7.6m)	CKM1525H	CKM1525HSF
	2 Piece	12½ ft. (3.8m)	CKM1512N	CKM1512NSF
		25 ft. (7.6m)	CKM1525N	CKM1525NSF

CKM150 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 46	Adapter/Dinse: 39–42, 44
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- Gas-Cooled
- 150 amp ACHF or DCSP @ 100%
- 8-3/4" (22.2cm) 5 oz (141gm)
- 3 Series Head Accessories



## CK210 GAS-COOLED

### CK210 & CK210V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CK2112H RG	CK2112HSF RG
		25 ft. (7.6m)	CK2125H RG	CK2125HSF RG
	2 Piece	12½ ft. (3.8m)	CK2112N RG	CK2112NSF RG
		25 ft. (7.6m)	CK2125N RG	CK2125NSF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK2112VH RG	CK2112VHSF RG
		25 ft. (7.6m)	CK2125VH RG	CK2125VHSF RG
	2 Piece	12½ ft. (3.8m)	CK2112VN RG	CK2112VNSF RG
		25 ft. (7.6m)	CK2125VN RG	CK2125VNSF RG

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 7-1/2 oz (212gm)
- 3 Series Head Accessories

### CK210 & CK210V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	CK2112H FX	CK2112HSF FX
		25 ft. (7.6m)	CK2125H FX	CK2125HSF FX
	2 Piece	12½ ft. (3.8m)	CK2112N FX	CK2112NSF FX
		25 ft. (7.6m)	CK2125N FX	CK2125NSF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	CK2112VH FX	CK2112VHSF FX
		25 ft. (7.6m)	CK2125VH FX	CK2125VHSF FX
	2 Piece	12½ ft. (3.8m)	CK2112VN FX	CK2112VNSF FX
		25 ft. (7.6m)	CK2125VN FX	CK2125VNSF FX

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-5/8" (24.4cm) 7-1/2 oz (212gm)
- 3 Series Head Accessories

#### CK210 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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## TL210 GAS-COOLED

### TL210 & TL210V RIGID TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	TL2112H RG	TL2112HSF RG
		25 ft. (7.6m)	TL2125H RG	TL2125HSF RG
	2 Piece	12½ ft. (3.8m)	TL2112N RG	TL2112NSF RG
		25 ft. (7.6m)	TL2125N RG	TL2125NSF RG
Rigid Head w/ Valve	1 Piece	12½ ft. (3.8m)	TL2112VH RG	TL2112VHSF RG
		25 ft. (7.6m)	TL2125VH RG	TL2125VHSF RG
	2 Piece	12½ ft. (3.8m)	TL2112VN RG	TL2112VNSF RG
		25 ft. (7.6m)	TL2125VN RG	TL2125VNSF RG

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories

### TL210 & TL210V FLEX TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	1 Piece	12½ ft. (3.8m)	TL2112H FX	TL2112HSF FX
		25 ft. (7.6m)	TL2125H FX	TL2125HSF FX
	2 Piece	12½ ft. (3.8m)	TL2112N FX	TL2112NSF FX
		25 ft. (7.6m)	TL2125N FX	TL2125NSF FX
Flex Head w/ Valve	1 Piece	12½ ft. (3.8m)	TL2112VH FX	TL2112VHSF FX
		25 ft. (7.6m)	TL2125VH FX	TL2125VHSF FX
	2 Piece	12½ ft. (3.8m)	TL2112VN FX	TL2112VNSF FX
		25 ft. (7.6m)	TL2125VN FX	TL2125VNSF FX

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 5 oz (141gm)
- 3 Series Head Accessories

#### TL210 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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## CKM210 PENCIL GAS-COOLED

### CKM210 PENCIL TORCH

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	1 Piece	12½ ft. (3.8m)	CKM2112H	CKM2112HSF
		25 ft. (7.6m)	CKM2125H	CKM2125HSF
	2 Piece	12½ ft. (3.8m)	CKM2112N	CKM2112NSF
		25 ft. (7.6m)	CKM2125N	CKM2125NSF

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-5/8" (24.4cm) 7-1/2 oz (212gm)
- 3 Series Head Accessories

#### CKM210 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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## CK180 WATER-COOLED

### CK180 & CK180V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK1812</b>	<b>CK1812SF</b>
		25 ft. (7.6m)	<b>CK1825</b>	<b>CK1825SF</b>
Rigid Head w/ Valve	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK1812V</b>	<b>CK1812VSF</b>
		25 ft. (7.6m)	<b>CK1825V</b>	<b>CK1825VSF</b>

- Water-Cooled
- 180 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 3-1/2 oz (99gm)
- 8 Series Head Accessories

### CK180 & CK180V RIGID EXTRA LENGTH SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Long Head 4½ in. (114mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKL1812</b>	<b>CKL1812SF</b>
		25 ft. (7.6m)	<b>CKL1825</b>	<b>CKL1825SF</b>
Extra Long Head 7½ in. (190mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKXL1812</b>	<b>CKXL1812SF</b>
		25 ft. (7.6m)	<b>CKXL1825</b>	<b>CKXL1825SF</b>
Extra Extra Long Head 10½ in. (266mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKXXL1812</b>	<b>CKXXL1812SF</b>
		25 ft. (7.6m)	<b>CKXXL1825</b>	<b>CKXXL1825SF</b>

- Water-Cooled
- 180 amp ACHF or DCSP @ 100%
- 8 Series Head Accessories



**CKL180**  
4-1/2" (11.4cm)

**CKXL180**  
7-1/2" (19.0cm)

**CKXXL180**  
10-1/2" (26.6cm)

#### CK180 REPLACEMENT PART PAGE LOCATOR:

8 Series Consumables: 57	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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## CK200 WATER-COOLED

### CK200 & CK200V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK212</b>	<b>CK212SF</b>
		25 ft. (7.6m)	<b>CK225</b>	<b>CK225SF</b>
Rigid Head w/ Valve	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK212V</b>	<b>CK212VSF</b>
		25 ft. (7.6m)	<b>CK225V</b>	<b>CK225VSF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 3 oz (85gm)
- 2 Series Head Accessories



### CK200 & CK200V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK212 FX</b>	<b>CK212SF FX</b>
		25 ft. (7.6m)	<b>CK225 FX</b>	<b>CK225SF FX</b>
Flex Head w/ Valve	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK212V FX</b>	<b>CK212VSF FX</b>
		25 ft. (7.6m)	<b>CK225V FX</b>	<b>CK225VSF FX</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 7-1/2" (19.0cm) 3 oz (85gm)
- 2 Series Head Accessories



#### CK200 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 47	Adapter/Dinse: 39-42, 44
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## CK200 WATER-COOLED CONTINUED

### CK200 RIGID EXTRA LENGTH SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Long Head 4½ in. (114mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKL212</b>	<b>CKL212SF</b>
		25 ft. (7.6m)	<b>CKL225</b>	<b>CKL225SF</b>
Extra Long Head 7½ in. (190mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKXL212</b>	<b>CKXL212SF</b>
		25 ft. (7.6m)	<b>CKXL225</b>	<b>CKXL225SF</b>
Extra Extra Long Head 10½ in. (266mm) Neck	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKXXL212</b>	<b>CKXXL212SF</b>
		25 ft. (7.6m)	<b>CKXXL225</b>	<b>CKXXL225SF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 2 Series Head Accessories



MAX-FLO

CKL200 4-1/2 inch (11.4cm)

CKXL200 7-1/2 inch (19.0cm)

CKXXL200 10-1/2 inch (26.6cm)

#### CK200 EXTRA LONG REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54 | Handle: 51 | Cables: 47 | Adapter/Dinse: 39-42, 44

## CKPF200 PENCIL FLEX WATER-COOLED

### CKPF200 PENCIL FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKPF212</b>	<b>CKPF212SF</b>
		25 ft. (7.6m)	<b>CKPF225</b>	<b>CKPF225SF</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories



#### CKPF200 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54 | Torch: 51 | Handle: 51 | Cables: 47 | Adapter/Dinse: 39-42, 44

## CKT200 WATER-COOLED

### CKT200 RIGID TURBINE TORCH

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head [For 1/16" (1.6mm) Tungsten]	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKT212-116</b>	<b>CKT212SF-116</b>
		25 ft. (7.6m)	<b>CKT225-116</b>	<b>CKT225SF-116</b>
Rigid Head [For 3/32" (2.4mm) Tungsten]	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKT212-332</b>	<b>CKT212SF-332</b>
		25 ft. (7.6m)	<b>CKT225-332</b>	<b>CKT225SF-332</b>

- Water-Cooled
- 200 amp ACHF or DCSP @ 100%
- 14-1/2" (36.8cm) 4 oz (113.2gm)
- 9 Series Head Accessories
- 9" (254mm) torch body standard
- 5" (127mm) torch body available – contact factory



#### CKT200 REPLACEMENT PART PAGE LOCATOR:

9 Series Consumables: 57 | Torch: 51 | Handle: 51 | Cables: 47 | Adapter/Dinse: 39-42, 44

## CKM200 WATER-COOLED

### CKM200

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CKM212</b>	<b>CKM212SF</b>
		25 ft. (7.6m)	<b>CKM225</b>	<b>CKM225SF</b>

- Water-Cooled
- 200 amp ACHF or DCSP @ 100%
- 6" (15.2cm) 3 oz (85gm)
- 2 Series Head Accessories



#### CKM200 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54 | Torch: 51 | Handle: 51 | Cables: 47 | Adapter/Dinse: 39-42, 44



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## CK230 WATER-COOLED

### CK230 & CK230V RIGID HEAVY DUTY SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK2312</b>	<b>CK2312SF</b>
		25 ft. (7.6m)	<b>CK2325</b>	<b>CK2325SF</b>
Rigid Head w/ Valve	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK2312V</b>	<b>CK2312VSF</b>
		25 ft. (7.6m)	<b>CK2325V</b>	<b>CK2325VSF</b>

- Water-Cooled
- 300 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 3-3/4 oz (106gm)
- 2 Series Head Accessories



MAX-FLO

### CK230 & CK230V FLEX HEAVY DUTY SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK2312 FX</b>	<b>CK2312SF FX</b>
		25 ft. (7.6m)	<b>CK2325 FX</b>	<b>CK2325SF FX</b>
Flex Head w/ Valve	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK2312V FX</b>	<b>CK2312VSF FX</b>
		25 ft. (7.6m)	<b>CK2325V FX</b>	<b>CK2325VSF FX</b>

- Water-Cooled
- 300 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 3-3/4 oz (106gm)
- 2 Series Head Accessories



MAX-FLO

#### CK230 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## FL230 WATER-COOLED

### FL230 FLEX-LOC SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
FL2L	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>FL2312</b>	<b>FL2312SF</b>
		25 ft. (7.6m)	<b>FL2325</b>	<b>FL2325SF</b>

- Water-Cooled
- 230 Amps (w/FL2L) ACHF or DCSP @ 100%
- 7-3/4" (19.6cm) 5 oz (141gm)
- 2 Series Head Accessories



360°

#### FL230 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: 54	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## FL250 WATER-COOLED

### FL250 FLEX-LOC SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
FL3L	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>FL2512</b>	<b>FL2512SF</b>
		25 ft. (7.6m)	<b>FL2525</b>	<b>FL2525SF</b>

- Water-Cooled
- 250 Amps (w/FL3L) ACHF or DCSP @ 100%
- 7-3/4" (19.6cm) 5 oz (141gm)
- 3 Series Head Accessories



#### FL250 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## CK300 WATER-COOLED

### CK300 & CK300V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK312</b>	<b>CK312SF</b>
		25 ft. (7.6m)	<b>CK325</b>	<b>CK325SF</b>
Rigid Head w/ Valve	TriFlex/SUPER-FLEX	12½ ft. (3.8m)	<b>CK312V</b>	<b>CK312VSF</b>
		25 ft. (7.6m)	<b>CK325V</b>	<b>CK325VSF</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 6-1/2 oz (184gm)
- 3 Series Head Accessories



MAX-FLO

#### CK300 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## CK300 WATER-COOLED CONTINUED

### CK300 & CK300V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK312 FX</b>	<b>CK312SF FX</b>
		25 ft. (7.6m)	<b>CK325 FX</b>	<b>CK325SF FX</b>
Flex Head w/ Valve	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>CK312V FX</b>	<b>CK312VSF FX</b>
		25 ft. (7.6m)	<b>CK325V FX</b>	<b>CK325VSF FX</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm)  
6-1/2 oz (184gm)
- 3 Series Head Accessories



#### CK300 REPLACEMENT PART PAGE LOCATOR:

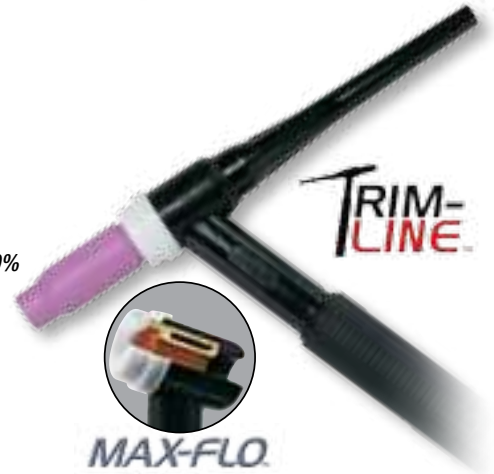
3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## TL300 WATER-COOLED

### TL300 & TL300V RIGID TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>TL312</b>	<b>TL312SF</b>
		25 ft. (7.6m)	<b>TL325</b>	<b>TL325SF</b>
Rigid Head w/ Valve	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>TL312V</b>	<b>TL312VSF</b>
		25 ft. (7.6m)	<b>TL325V</b>	<b>TL325VSF</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8" (20.3cm)  
5 oz (141gm)
- 3 Series Head Accessories



### TL300 & TL300V FLEX TRIM-LINE™ SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Flex Head	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>TL312 FX</b>	<b>TL312SF FX</b>
		25 ft. (7.6m)	<b>TL325 FX</b>	<b>TL325SF FX</b>
Flex Head w/ Valve	TriFlex/ SUPER-FLEX	12½ ft. (3.8m)	<b>TL312V FX</b>	<b>TL312VSF FX</b>
		25 ft. (7.6m)	<b>TL325V FX</b>	<b>TL325VSF FX</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8" (20.3cm)  
5 oz (141gm)
- 3 Series Head Accessories



#### TL300 REPLACEMENT PART PAGE LOCATOR:

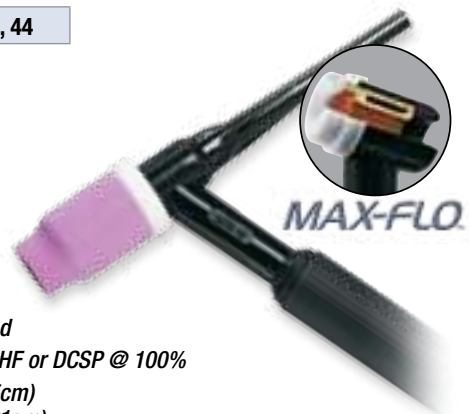
3 Series Consumables: 55	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## CK510 WATER-COOLED

### CK510 RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #
Rigid Head	Separate Cables	12½ ft. (3.8m)	<b>CK5112</b>	<b>CK5112SF</b>
		25 ft. (7.6m)	<b>CK5125</b>	<b>CK5125SF</b>
Rigid Head w/ Valve	Separate Cables	12½ ft. (3.8m)	<b>CK5112V</b>	<b>CK5112VSF</b>
		25 ft. (7.6m)	<b>CK5125V</b>	<b>CK5125VSF</b>

- Water-Cooled
- 500 amp ACHF or DCSP @ 100%
- 9-1/4" (23.5cm)  
6-3/4 oz (191gm)
- 3 Series or 51 Series Head Accessories



**SMALLEST 500 AMP TORCH IN THE WORLD!**

Uses .020" ~ 1/4" (0.5mm ~ 6.4mm) Tungsten

#### CK510 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: 55	51 Series Consumables: 57	Torch: 51	Handle: 51	Cables: 48	Adapter/Dinse: 39-42, 44
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## AIRCO TORCHES

### CKA10 GAS-COOLED AIRCO TORCH

#### CKA10 & CKA10V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #
Rigid Head	1 Piece*	12½ ft. (3.8m)	<b>CKA102</b>
		25 ft. (7.6m)	<b>CKA105</b>
Rigid Head w/ Valve	1 Piece*	12½ ft. (3.8m)	<b>CKA102V</b>
		25 ft. (7.6m)	<b>CKA105V</b>

- Gas-Cooled
- 100 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 3-1/2 oz (99gm)
- A2 Series Head Accessories

#### CKA10 REPLACEMENT PART PAGE LOCATOR:

A2 Series Consumables: 59 Torch: 51 Handle: 51 Cables: 49 Adapter/Dinse: 39-42, 44

### CKA16 GAS-COOLED AIRCO TORCH

#### CKA16 & CKA16V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #
Rigid Head	1 Piece*	12½ ft. (3.8m)	<b>CKA162 RG</b>
		25 ft. (7.6m)	<b>CKA165 RG</b>
	2 Piece*	12½ ft. (3.8m)	<b>CKA162N RG</b>
		25 ft. (7.6m)	<b>CKA165N RG</b>
Rigid Head w/ Valve	1 Piece*	12½ ft. (3.8m)	<b>CKA162V RG</b>
		25 ft. (7.6m)	<b>CKA165V RG</b>
	2 Piece*	12½ ft. (3.8m)	<b>CKA162VN RG</b>
		25 ft. (7.6m)	<b>CKA165VN RG</b>

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-3/8" (23.8cm) 7-1/2 oz (212gm)
- A3 Series Head Accessories

#### CKA16 & CKA16V FLEX

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #
Flex Head	1 Piece*	12½ ft. (3.8m)	<b>CKA162 FX</b>
		25 ft. (7.6m)	<b>CKA165 FX</b>
	2 Piece*	12½ ft. (3.8m)	<b>CKA162N FX</b>
		25 ft. (7.6m)	<b>CKA165N FX</b>
Flex Head w/ Valve	1 Piece*	12½ ft. (3.8m)	<b>CKA162V FX</b>
		25 ft. (7.6m)	<b>CKA165V FX</b>
	2 Piece*	12½ ft. (3.8m)	<b>CKA162VN FX</b>
		25 ft. (7.6m)	<b>CKA165VN FX</b>

- Gas-Cooled
- 200 amp ACHF or DCSP @ 100%
- 9-3/8" (23.8cm) 7-1/2 oz (212gm)
- A3 Series Head Accessories

\*Super-Flex Power Cables available on request

#### CKA16 REPLACEMENT PART PAGE LOCATOR:

A3 Series Consumables: 59 Torch: 51 Handle: 51 Cables: 49 Adapter/Dinse: 39-42, 44

### CKA20 WATER-COOLED AIRCO TORCH

#### CKA20 & CKA20V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #
Rigid Head	Tri-Flex*	12½ ft. (3.8m)	<b>CKA202</b>
		25 ft. (7.6m)	<b>CKA205</b>
Rigid Head w/ Valve	Tri-Flex*	12½ ft. (3.8m)	<b>CKA202V</b>
		25 ft. (7.6m)	<b>CKA205V</b>

- Water-Cooled
- 250 amp ACHF or DCSP @ 100%
- 8-1/2" (21.6cm) 4 oz (113gm)
- A2 Series Head Accessories

#### CKA20 REPLACEMENT PART PAGE LOCATOR:

A2 Series Consumables: 59 Torch: 51 Handle: 51 Cables: 49 Adapter/Dinse: 39-42, 44

### CKA35 WATER-COOLED AIRCO TORCH

#### CKA35 & CKA35V RIGID

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #
Rigid Head	Tri-Flex*	12½ ft. (3.8m)	<b>CKA352</b>
		25 ft. (7.6m)	<b>CKA355</b>
Rigid Head w/ Valve	Tri-Flex*	12½ ft. (3.8m)	<b>CKA352V</b>
		25 ft. (7.6m)	<b>CKA355V</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8-1/2" (21.6cm) 4 oz (113gm)
- A3 Series Head Accessories

\*Super-Flex Power Cables available on request

#### CKA35 REPLACEMENT PART PAGE LOCATOR:

A3 Series Consumables: 59 Torch: 51 Handle: 51 Cables: 49 Adapter/Dinse: 39-42, 44

## PROFESSIONAL TIG OUTFIT (PTO)

Outfit your welding machine with one of our Professional TIG Outfits to save time and money. These PTOs make it simple to complete your TIG welding setup by providing you with almost everything you need to set up your welding machine.



### KIT INCLUDES:

- TIG torch with handle
- Backcap
- Power cable
- Dinse connector
- 6 ft. inert Argon hose
- Flowmeter/regulator
- Accessory kit
- Ground clamp

## WEDGE COLLET CK EXCLUSIVE

### LASTS UP TO 10 TIMES LONGER THAN STANDARD SPLIT COLLETS

- Improves arc starts and arc stability
- Requires less pressure from the backcap, improving thread life on torch head
- Tungsten is in direct contact with collet body creating less resistance heating
- Runs cooler, minimizing down time replacing collets
- Eliminates twisting and deformation of collet
- Fits any standard collet body or gas lens



Precision angled end cut gives "wedge" action for firm hold

Slots weaken the collet allowing it to twist, deform or jam

WEDGE COLLET		
USE ON TORCHES	TUNGSTEN SIZE	ORDER NUMBER
CK9, CK20	.040" (1.0mm)	<b>2C040GS</b>
	1/16" (1.6mm)	<b>2C116GS</b>
	3/32" (2.4mm)	<b>2C332GS</b>
	1/8" (3.2mm)	<b>2C418GS</b>
CK17, CK18, CK26	.040" (1.0mm)	<b>3C040GS</b>
	1/16" (1.6mm)	<b>3C116GS</b>
	3/32" (2.4mm)	<b>3C332GS</b>
	1/8" (3.2mm)	<b>3C418GS</b>
	5/32" (4.0mm)	<b>3C532GS</b>



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## 1/4" I.D. (6.4mm) INERT GAS (ARGON) HOSE CK EXCLUSIVE

- 1/4" I.D. (6.4mm) clear inert gas hose
- Can be ordered in a 300' (91.4m) bulk reel without fittings
- Hoses include inert gas fittings (5/8-18 RH Male on both ends)

REINFORCED  
CLEAR VINYL HOSE



### 1/4" I.D. (6.4MM) INERT GAS (ARGON) HOSE CK EXCLUSIVE

DESCRIPTION	ORDER NUMBER
1/4" I.D. (6.4mm) Clear Inert Gas Hose	<b>ARH-BULK</b> 300' (91.44m) reel only*
12-1/2' (3.8m) Clear Inert Gas Hose	<b>ARH-12</b>
25' (7.6m) Clear Inert Gas Hose	<b>ARH-25</b>
50' (15.2m) Clear Inert Gas Hose	<b>ARH-50</b>
75' (22.9m) Clear Inert Gas Hose	<b>ARH-75</b>
100' (30.5m) Clear Inert Gas Hose	<b>ARH-100</b>

\*300' (91.4m) reels only, NO EXCEPTIONS

## REGULATORS

Our Regulator/Flowmeter combinations are specially designed for TIG welding applications. Unique design and construction features make these units equally suited for applications from the industrial job site to the laboratory.

### ORDER # 191AR-60

- Regulator/Flowmeter combination in one compact unit
- Ideal for applications where dependability is needed
- Machined brass body and housing cap
- Cover tube contains overpressure protection



### ORDER # 196AR-60

- Monitors two separate gas flow settings at the same time
- Dual flowmeter allows for purging operations
- Regulator is preset at 50PSIG
- Single-stage construction
- Body machined from class "A" brass



## GAS FLOW TESTER

USE THE CK-GFT TO QUICKLY AND EASILY CHECK YOUR FLOW RATE AT THE TORCH NOZZLE!

ORDER # CK-GFT



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**GAS SAVER™ KITS** CK EXCLUSIVE

- Provides better gas coverage versus standard collet bodies
- Tungsten stick-out can be up to 6 times the electrode diameter
- Clear Pyrex or Alumina push on nozzles available
- Improves visibility
- Less expensive replacement parts than standard gas lenses
- Fits most standard silicone rubber insulated torch bodies
- Replaceable Screen Adapter

**SAVE UP TO 40% OF SHIELD GAS CONSUMPTION!!**

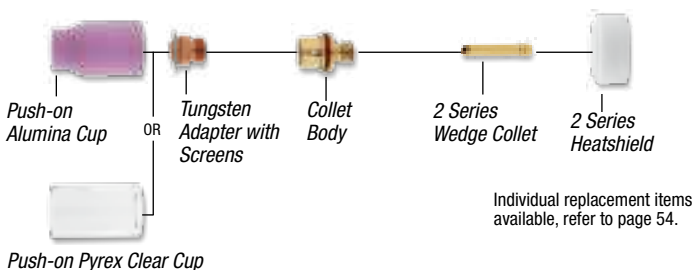


**2 SERIES CONVERSION KIT**

2 SERIES COMPLETE FRONT END KITS:

USE ON TORCHES	TUNGSTEN SIZE	ORDER NUMBER	
CK9, CK20	1/16" (1.6mm)	<b>D2GS116</b>	ALUMINA
	3/32" (2.4mm)	<b>D2GS332</b>	
	1/8" (3.2mm)	<b>D2GS418</b>	
CK9, CK20	1/16" (1.6mm)	<b>D2GS116-P</b>	PYREX
	3/32" (2.4mm)	<b>D2GS332-P</b>	
	1/8" (3.2mm)	<b>D2GS418-P</b>	

KIT CONSISTS OF ITEMS BELOW (ONE EACH)

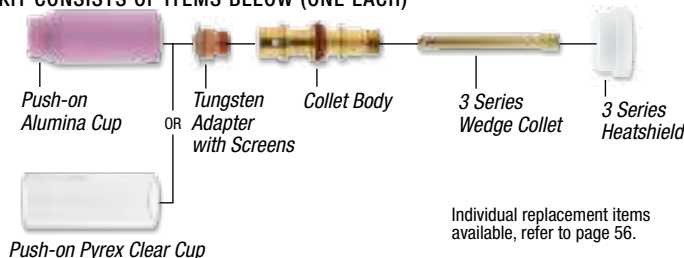


**3 SERIES CONVERSION KIT**

3 SERIES COMPLETE FRONT END KITS:

USE ON TORCHES	TUNGSTEN SIZE	ORDER NUMBER	
CK17, CK18, CK26	1/16" (1.6mm)	<b>D3GS116</b>	ALUMINA
	3/32" (2.4mm)	<b>D3GS332</b>	
	1/8" (3.2mm)	<b>D3GS418</b>	
CK17, CK18, CK26	1/16" (1.6mm)	<b>D3GS116-P</b>	PYREX
	3/32" (2.4mm)	<b>D3GS332-P</b>	
	1/8" (3.2mm)	<b>D3GS418-P</b>	

KIT CONSISTS OF ITEMS BELOW (ONE EACH)



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# LARGE DIAMETER GAS SAVER™ CK EXCLUSIVE

Alloys such as Titanium that require extra shield gas coverage are now being used for aerospace and motorsport components. Standard and large diameter gas lenses are not adequate to insure a larger surface area of shield gas coverage. CK Worldwide's Large Diameter Gas Saver® is ideal for titanium tubing. High temperature Pyrex glass gas cups insure full visibility of the weld puddle and directs a uniform gas flow pattern over a very large surface area.

Aerospace and motorsport components present odd angles that need to be welded. Standard tungsten stick-out beyond the gas cup does not allow the torch to be put in the proper position to weld those angles. The Large Diameter Gas Saver® allows the tungsten to extend up to 1-1/2" (3.81cm) beyond the edge of the gas cup giving the welder the ability to access the weld without getting the torch into the angle.

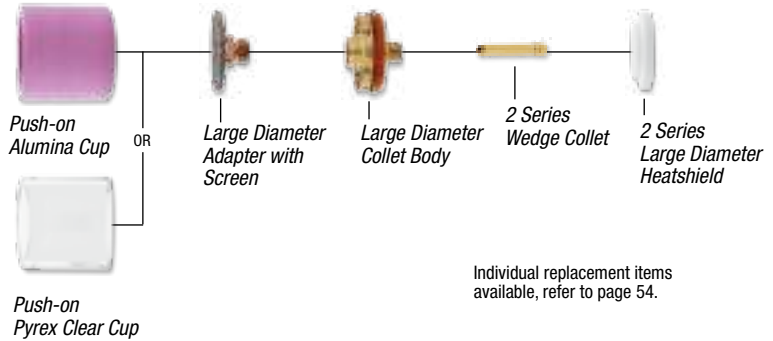
**GREAT FOR TITANIUM!**



## 2 SERIES CONVERSION KIT

2 SERIES LARGE DIAMETER KITS CK EXCLUSIVE		
USE ON TORCHES	TUNGSTEN SIZE	ORDER NUMBER
CK9, CK20	1/16" (1.6mm)	D2GS116LD-A
	3/32" (2.4mm)	D2GS332LD-A
	1/8" (3.2mm)	D2GS418LD-A
CK9, CK20	1/16" (1.6mm)	D2GS116LD
	3/32" (2.4mm)	D2GS332LD
	1/8" (3.2mm)	D2GS418LD

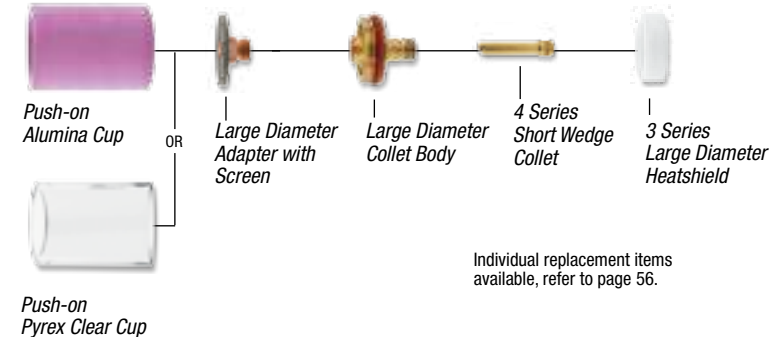
KIT CONSISTS OF ITEMS BELOW (ONE EACH)



## 3 SERIES CONVERSION KIT

3 SERIES LARGE DIAMETER KITS CK EXCLUSIVE		
USE ON TORCHES	TUNGSTEN SIZE	ORDER NUMBER
CK17, CK18, CK26	1/16" (1.6mm)	D4GS116LD-A
	3/32" (2.4mm)	D4GS332LD-A
	1/8" (3.2mm)	D4GS418LD-A
CK17, CK18, CK26	1/16" (1.6mm)	D4GS116LD
	3/32" (2.4mm)	D4GS332LD
	1/8" (3.2mm)	D4GS418LD

KIT CONSISTS OF ITEMS BELOW (ONE EACH)



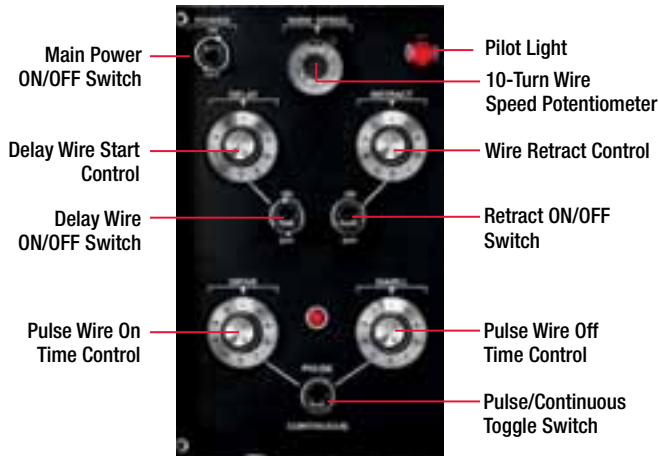
LARGE DIAMETER GAS SAVER™ CK EXCLUSIVE

## COLD WIRE FEEDER CK EXCLUSIVE

- Increase productivity by up to 30%
- Automates adding of filler metal in TIG welding
- All weld parameters can be duplicated
- Dual Groove Drive Roll system accepts multiple wire sizes
- Uses standard wire spool sizes
- Eliminates TIG rod stub loss
- Cabinet keeps filler wire clean
- Makes fully automatic machine TIG welding possible
- Results are consistent high quality welds by minimizing starts and stops.



### FRONT PANEL (WF-5) CONTROLS



For complete installation of a Cold Wire TIG System, you need both the Cold Wire Feeder and a TIG torch (hand held or machine mounted) with cold wire TIG capabilities. The Cold Wire TIG System works independent of a standard TIG power supply using normal TIG welding parameters.



### SPECIFICATIONS

Voltage .....	115V AC (220V AC 50 Hz.— Special Order)
Phase .....	Single Phase
Frequency .....	50/60 Hz.
Height .....	15" (38.1cm)
Width .....	10" (25.4cm)
Length .....	21" (53.3cm)
Weight .....	54 lbs. (17.7kg)
Filler Wire Spool Size .....	12" (30.5cm)
Filler Wire Sizes .....	.023" (.5mm), .030" (.8mm), .035" (.9mm), .045" (1.1mm), 1/16" (1.6mm)
Wire Feed Speed Range .....	0–700 in/min (0–1,775cm/min)
Feed Time (pulsed mode) .....	continuously variable
Dwell Time (pulsed mode) .....	continuously variable
Delay Start Time .....	continuously variable
Wire Retract Time .....	continuously variable

WF5 COLD WIRE FEED UNIT <small>CK EXCLUSIVE</small>			
APPLICATION	DRIVE ROLL	WIRE SIZE	ORDER #
<b>Hand Held/ Machine Mounted</b>	20–35DR	.023" – .035" (.5mm–.9mm)	<b>WF5-030</b>
	30–45DR	.030" – .045" (.8mm–1.1mm)	<b>WF5-035</b>
	30–45DR	.030" – .045" (.8mm–1.1mm)	<b>WF5-045</b>
	45–564DR	.045" – 1/16" (1.1mm–1.6mm)	<b>WF5-116</b>



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## HAND HELD PENDANT

### CWH PENDANT

HEAD STYLE	LENGTH	WIRE SIZE / TYPE	ORDER #
Electric Switch w/ Straight Wire Guide	8 ft. (2.4m)	.030" (.8mm) / Soft	<b>CWH-030S</b>
	10 ft. (3.0m)	.030" (.8mm) / Hard	<b>CWH-030H</b>
	8 ft. (2.4m)	.035" (.9mm) / Soft	<b>CWH-035S</b>
	10 ft. (3.0m)	.035" (.9mm) / Hard	<b>CWH-035H</b>
	8 ft. (2.4m)	.045" (1.1mm) / Soft	<b>CWH-045S</b>
	10 ft. (3.0m)	.045" (1.1mm) / Hard	<b>CWH-045H</b>
	8 ft. (2.4m)	1/16" (1.6mm) / Soft	<b>CWH-116S</b>
	10 ft. (3.0m)	1/16" (1.6mm) / Hard	<b>CWH-116H</b>

- Pendant Unit
- Used in conjunction with TIG torch
- Standard feed cable length:  
10' hard wire (3m)  
8' soft wire (2.4m)

## WATER-COOLED TORCHES

### CWHTL312 COLD WIRE TORCH

STYLE	WIRE SIZE / TYPE	TRI-FLEX #	SUPER-FLEX #
Rigid Head w/o Valve 12½ ft. (3.8m) TriFlex/ SUPER-FLEX	.030" (.8mm) / Soft	<b>CWHTL312-030S</b>	<b>CWHTL312SF-030S</b>
	.030" (.8mm) / Hard	<b>CWHTL312-030H</b>	<b>CWHTL312SF-030H</b>
	.035" (.9mm) / Soft	<b>CWHTL312-035S</b>	<b>CWHTL312SF-035S</b>
	.035" (.9mm) / Hard	<b>CWHTL312-035H</b>	<b>CWHTL312SF-035H</b>
	.045" (1.1mm) / Soft	<b>CWHTL312-045S</b>	<b>CWHTL312SF-045S</b>
	.045" (1.1mm) / Hard	<b>CWHTL312-045H</b>	<b>CWHTL312SF-045H</b>
	1/16" (1.6mm) / Soft	<b>CWHTL312-116S</b>	<b>CWHTL312SF-116S</b>
	1/16" (1.6mm) / Hard	<b>CWHTL312-116H</b>	<b>CWHTL312SF-116H</b>

- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 8" (20.3cm) 5 oz (141gm)
- 3 Series Head Accessories

### CWH3512 COLD WIRE TORCH

STYLE	WIRE SIZE / TYPE	STANDARD #	SUPER-FLEX #
Rigid Head w/o Valve 12½ ft. (3.8m) Separate Cables	.030" (.8mm) / Soft	<b>CWH3512-030S</b>	<b>CWH3512SF-030S</b>
	.030" (.8mm) / Hard	<b>CWH3512-030H</b>	<b>CWH3512SF-030H</b>
	.035" (.9mm) / Soft	<b>CWH3512-035S</b>	<b>CWH3512SF-035S</b>
	.035" (.9mm) / Hard	<b>CWH3512-035H</b>	<b>CWH3512SF-035H</b>
	.045" (1.1mm) / Soft	<b>CWH3512-045S</b>	<b>CWH3512SF-045S</b>
	.045" (1.1mm) / Hard	<b>CWH3512-045H</b>	<b>CWH3512SF-045H</b>
	1/16" (1.6mm) / Soft	<b>CWH3512-116S</b>	<b>CWH3512SF-116S</b>
	1/16" (1.6mm) / Hard	<b>CWH3512-116H</b>	<b>CWH3512SF-116H</b>

- Water-Cooled
- 400 amp ACHF or DCSP @ 100%
- 9-1/2" (24.1cm) 6-1/2 oz (184gm)
- 3 Series Head Accessories

## FOR SPECIFIC APPLICATIONS

### CWH1812 COLD WIRE TORCH

STYLE	WIRE SIZE / TYPE	TRI-FLEX #	SUPER-FLEX #
Rigid Head w/o Valve 12½ ft. (3.8m) TriFlex/ SUPER-FLEX	.030" (.8mm) / Soft	<b>CWH1812-030S</b>	<b>CWH1812SF-030S</b>
	.030" (.8mm) / Hard	<b>CWH1812-030H</b>	<b>CWH1812SF-030H</b>
	.035" (.9mm) / Soft	<b>CWH1812-035S</b>	<b>CWH1812SF-035S</b>
	.035" (.9mm) / Hard	<b>CWH1812-035H</b>	<b>CWH1812SF-035H</b>
	.045" (1.1mm) / Soft	<b>CWH1812-045S</b>	<b>CWH1812SF-045S</b>
	.045" (1.1mm) / Hard	<b>CWH1812-045H</b>	<b>CWH1812SF-045H</b>
	1/16" (1.6mm) / Soft	<b>CWH1812-116S</b>	<b>CWH1812SF-116S</b>
	1/16" (1.6mm) / Hard	<b>CWH1812-116H</b>	<b>CWH1812SF-116H</b>

- Water-Cooled
- 180 amp ACHF or DCSP @ 100%
- 8-1/8" (20.6cm) 3-1/2 oz (99gm)
- 8 Series Head Accessories

### CWH2312 COLD WIRE TORCH

STYLE	WIRE SIZE / TYPE	TRI-FLEX #	SUPER-FLEX #
Rigid Head w/o Valve 12½ ft. (3.8m) TriFlex/ SUPER-FLEX	.030" (.8mm) / Soft	<b>CWH2312-030S</b>	<b>CWH2312SF-030S</b>
	.030" (.8mm) / Hard	<b>CWH2312-030H</b>	<b>CWH2312SF-030H</b>
	.035" (.9mm) / Soft	<b>CWH2312-035S</b>	<b>CWH2312SF-035S</b>
	.035" (.9mm) / Hard	<b>CWH2312-035H</b>	<b>CWH2312SF-035H</b>
	.045" (1.1mm) / Soft	<b>CWH2312-045S</b>	<b>CWH2312SF-045S</b>
	.045" (1.1mm) / Hard	<b>CWH2312-045H</b>	<b>CWH2312SF-045H</b>
	1/16" (1.6mm) / Soft	<b>CWH2312-116S</b>	<b>CWH2312SF-116S</b>
	1/16" (1.6mm) / Hard	<b>CWH2312-116H</b>	<b>CWH2312SF-116H</b>

- Water-Cooled
- 300 amp ACHF or DCSP @ 100%
- 8-1/4" (20.9cm) 3-3/4 oz (106gm)
- 2 Series Head Accessories

## COLD WIRE TORCHES – MACHINE MOUNTED

When these torches are used in conjunction with the WF-5 wire feeder, complete automatic feeding of the filler wire is possible.

PLEASE SPECIFY SIZE: .030" (.8mm), .035" (.9mm), .045" (1.1mm), 1/16" (1.6mm) AND TYPE: (HARD – steel or SOFT – aluminum) when ordering.

A separate remote switch (CWMES) is required for complete installation.

Standard feed cable length: 8 ft. (2.4m) for soft wire, and 10 ft. (3m) for hard wire.

### CWM2312 WATER-COOLED

#### CWM2312 MACHINE COLD WIRE TORCH

HEAD STYLE	CABLE	WIRE SIZE / TYPE	ORDER #
Barrel Front Load	12½ ft. (3.8m) TriFlex	.030" (.8mm) / Soft	CWM2312-030S
		.030" (.8mm) / Hard	CWM2312-030H
	Special length cables are available upon request.	.035" (.9mm) / Soft	CWM2312-035S
		.035" (.9mm) / Hard	CWM2312-035H
		.045" (1.1mm) / Soft	CWM2312-045S
		.045" (1.1mm) / Hard	CWM2312-045H
		1/16" (1.6mm) / Soft	CWM2312-116S
		1/16" (1.6mm) / Hard	CWM2312-116H



- Water-Cooled
- 300 amp ACHF or DCSP @ 100%
- 18" (45.7cm) 6 oz (170gm)
- 2 Series Head Accessories (see page 54)
- 1-3/8 inch (35mm) O.D. Barrel

### CWM3512 WATER-COOLED

#### CWM3512 MACHINE COLD WIRE TORCH

HEAD STYLE	CABLE	WIRE SIZE / TYPE	ORDER #
Barrel Front Load	12½ ft. (3.8m) Separate Cables	.030" (.8mm) / Soft	CWM3512-030S
		.030" (.8mm) / Hard	CWM3512-030H
	Special length cables are available upon request.	.035" (.9mm) / Soft	CWM3512-035S
		.035" (.9mm) / Hard	CWM3512-035H
		.045" (1.1mm) / Soft	CWM3512-045S
		.045" (1.1mm) / Hard	CWM3512-045H
		1/16" (1.6mm) / Soft	CWM3512-116S
		1/16" (1.6mm) / Hard	CWM3512-116H



- Water-Cooled
- 350 amp ACHF or DCSP @ 100%
- 18" (45.7cm) 6-1/4 oz (177gm)
- 3 Series Head Accessories (see page 55)
- 1-3/8 inch (35mm) O.D. Barrel

### CWMT412 WATER-COOLED

#### CWMT412 MACHINE COLD WIRE TORCH

HEAD STYLE	CABLE	WIRE SIZE / TYPE	ORDER #
Screw Mounted Front and Back Load	12½ ft. (3.8m) Separate Cables	.030" (.8mm) / Soft	CWMT412-030S
		.030" (.8mm) / Hard	CWMT412-030H
	Special length cables are available upon request.	.035" (.9mm) / Soft	CWMT412-035S
		.035" (.9mm) / Hard	CWMT412-035H
		.045" (1.1mm) / Soft	CWMT412-045S
		.045" (1.1mm) / Hard	CWMT412-045H
		1/16" (1.6mm) / Soft	CWMT412-116S
		1/16" (1.6mm) / Hard	CWMT412-116H



- Water-Cooled
- 400 amp ACHF or DCSP @ 100%
- 4-1/16" (10.3cm) 6-1/4 oz (177gm)
- Machine Series Head Accessories (see page 58)

### CWMT512 WATER-COOLED

#### CWMT512 MACHINE COLD WIRE TORCH

HEAD STYLE	CABLE	WIRE SIZE / TYPE	ORDER #
7" (17.8cm) or 18" (45.7cm) Barrel* Front and Back Load	12½ ft. (3.8m) Separate Cables	.030" (.8mm) / Soft	CWMT512-7-030S
		.030" (.8mm) / Hard	CWMT512-7-030H
	Special length cables are available upon request.	.035" (.9mm) / Soft	CWMT512-7-035S
		.035" (.9mm) / Hard	CWMT512-7-035H
		.045" (1.1mm) / Soft	CWMT512-7-045S
		.045" (1.1mm) / Hard	CWMT512-7-045H
		1/16" (1.6mm) / Soft	CWMT512-7-116S
		1/16" (1.6mm) / Hard	CWMT512-7-116H



- Water-Cooled
- 500 amp ACHF or DCSP @ 100%
- 7" (17.8cm) 12 oz (340gm)
- Machine Series Head Accessories (see page 58)

\* Contact CK Worldwide for 18 inch (45.7cm) barrel part numbers.



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## COLD WIRE CONDUITS AND WIRE GUIDES

The chart below can be used for finding part numbers based on the torch and size/type of wire that is being used. Our standard lengths for the Wire Conduit is 8 ft. (2.4m) for Soft wire, and 10ft. (3m) for Hard Wire to help prevent feeding problems.

### Recommended Cold Wire Conduit and Wire Guides

TIG TORCH	WIRE SIZE	WIRE TYPE	PART NUMBER			
			WIRE CONDUIT	WIRE GUIDE (Tube and Tip)	TUBE	TIP
<i>Body Mounted</i> CWH180 CWH230 CWM230 CWMT500	.023" (.5 mm) – .030" (.8 mm)	Hard	CW-FC	CWG030B	CWGB	CWT030
	.023" (.5 mm) – .030" (.8 mm)	Soft	NOT RECOMMENDED	N/A	N/A	N/A
	.035" (.9 mm)	Hard	CW-FC	CWG035B	CWGB	CWT035
	.035" (.9 mm)	Soft	CW-FCN	CWG035B	CWGB	CWT035
	.045" (1.1 mm)	Hard	CW-FC	CWG045B	CWGB	CWT045
	3/64" (1.2 mm)	Soft	CW-FCN	CWG116B	NONE	NONE
<i>Front Mounted</i> CWHTL300 CWH350 CWM350 CWMT400	.023" (.5 mm) – .030" (.8 mm)	Hard	CW-FC	CWG030H	CWGH	CWT030
	.023" (.5 mm) – .030" (.8 mm)	Soft	NOT RECOMMENDED	N/A	N/A	N/A
	.035" (.9 mm)	Hard	CW-FC	CWG035H	CWGH	CWT035
	.035" (.9 mm)	Soft	CW-FCN	CWG035H	CWGH	CWT035
	.045" (1.1 mm)	Hard	CW-FC	CWG045H	CWGH	CWT045
	3/64" (1.2 mm)	Soft	CW-FCN116	CWG116H	NONE	NONE
	1/16" (1.6 mm)	Hard	CW-FC116	CWG116H	NONE	NONE
	1/16" (1.6 mm)	Soft	CW-FCN116	CWG116H	NONE	NONE
CWH	.023" (.5 mm) – .030" (.8 mm)	Hard	CW-FC	CWG030HS	CWGHS	CWT030
	.023" (.5 mm) – .030" (.8 mm)	Soft	CW-FCN	CWG030HS	CWGHS	CWT030
	.035" (.9 mm)	Hard	CW-FC	CWG035HS	CWGHS	CWT035
	.035" (.9 mm)	Soft	CW-FCN	CWG035HS	CWGHS	CWT035
	.045" (1.1 mm)	Hard	CW-FC	CWG045HS	CWGHS	CWT045
	3/64" (1.2 mm)	Soft	CW-FCN116	CWG116HS	NONE	NONE
	1/16" (1.6 mm)	Hard	CW-FC116	CWG116HS	NONE	NONE
	1/16" (1.6 mm)	Soft	CW-FCN116	CWG116HS	NONE	NONE

## COLD WIRE EXTENSION BRACKET

- Used for multiple different angles
- Works well with both soft and hard wire types
- Increases the feedability of the wire

**ORDER # 3-WGBX-60**



Straight Wire Guide  
NOT INCLUDED

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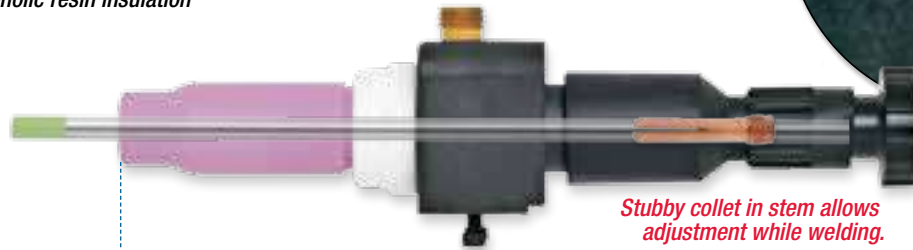
## MACHINE ROBOTIC TORCHES

### Largest Line of Machine Robotic Torches

- All torches are back-loaded, no need to remove cup to make adjustments
- Adjust tungsten up to 3/4" (19mm) without removing tungsten from torch (MT100, MT400)
- Adjustable backcap allows AVC adjustment while welding
- Uses standard 10N Series cup and collet body, 10N "stubby" collet
- High temperature phenolic resin insulation



Mounting screws  
(4 x 40)



Stubby collet in stem allows adjustment while welding.

5.75" (14.6cm)

See Stubby 4 Series slotted collets on page 58.



Shown without adjustment stem.

3.75" (9.5cm)

## COMPACT SERIES TORCHES

### MT100 GAS-COOLED



100 Amps

MT100 MACHINE TORCH CK EXCLUSIVE				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Face Plate Mounted	1 Piece	12½ ft. (3.8m)	MT112	MT112SF
		25 ft. (7.6m)	MT125	MT125SF

- Gas-Cooled
- 100 amp ACHF or DCSP @ 100%
- 4-1/16" (10.3cm) 5-3/4 oz. (163gm)
- Machine Series Head Accessories (4 Series Collet)

#### MT100 REPLACEMENT PART PAGE LOCATOR:

MT Series Consumables: 58	Torch: 51	Cables: 50	Adapter/Dinse: 39-42, 44
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### MT400 WATER-COOLED



400 Amps

MT400 MACHINE TORCH CK EXCLUSIVE				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Face Plate Mounted	1 Piece for Dinse Connectors	12½ ft. (3.8m)	MT412-1	MT412SF-1
		25 ft. (7.6m)	MT425-1	MT425SF-1

- Water-Cooled
- 400 amp ACHF or DCSP @ 100%
- 4-1/16" (10.3cm) 6-1/4 oz. (177gm)
- Machine Series Head Accessories (4 Series Collet)

\*90 Degree power cable elbow available - 90EMT300

#### MT400 REPLACEMENT PART PAGE LOCATOR:

MT Series Consumables: 58	Torch: 51	Cables: 50	Adapter/Dinse: 39-42, 44
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## BARREL MACHINE TORCHES FRONT OR BACK LOADING SERIES

The MT500 Series torch body is available in lengths of 7" (17.8cm) or 18" (45.7cm) with a 1-3/8" (35mm) O.D. The unique adjusting cap design of the MT torches provides 1/2" (12.7mm) tungsten adjustment while welding, and for ease of setup. A factory-installed 24 or 32 pitch rack is available on 18" (45.7cm) version only.

### MT500-7 WATER-COOLED



MT500-7 MACHINE TORCH <i>CK EXCLUSIVE</i>				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Barrel Style	3 Piece	12½ ft. (3.8m)	<b>MT512-7-1</b>	<b>MT512SF-7-1</b>
		25 ft. (7.6m)	<b>MT525-7-1</b>	<b>MT525SF-7-1</b>

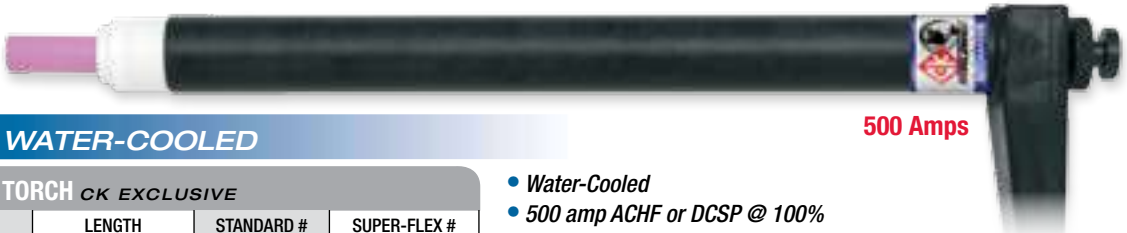
- Water-Cooled
- 500 amp ACHF or DCSP @ 100%
- 7" (17.8cm) 12 oz. (340gm)
- Machine Series Head Accessories (4 Series Collet)
- 1-3/8" (35mm) O.D. Barrel

**500 Amps**

MT500-7 REPLACEMENT PART PAGE LOCATOR:

MT Series Consumables: <b>58</b>	Torch: <b>51</b>	Cables: <b>50</b>	Adapter/Dinse: <b>39–42, 44</b>
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### MT500-18 WATER-COOLED



MT500-18 MACHINE TORCH <i>CK EXCLUSIVE</i>				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Barrel Style	3 Piece	12½ ft. (3.8m)	<b>MT512-18-1</b>	<b>MT512SF-18-1</b>
		25 ft. (7.6m)	<b>MT525-18-1</b>	<b>MT525SF-18-1</b>

- Water-Cooled
- 500 amp ACHF or DCSP @ 100%
- 18" (45.7cm) 16 oz. (454gm)
- Machine Series Head Accessories (4 Series Collet)
- 1-3/8" (35mm) O.D. Barrel

**500 Amps**

HR-24 or HR-32 pitch rack available on request.

MT500-18 REPLACEMENT PART PAGE LOCATOR:

MT Series Consumables: <b>58</b>	Torch: <b>51</b>	Cables: <b>50</b>	Adapter/Dinse: <b>39–42, 44</b>
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## BARREL MACHINE TORCHES FRONT ONLY LOADING SERIES

The CKM230 and CKM350 torches come with a 1-3/8" (35mm) O.D. x 12" (30.5cm) high temperature phenolic resin handle as standard.

### CKM230 WATER-COOLED



CKM230 MACHINE TORCH				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Barrel Style	TriFlex	12½ ft. (3.8m)	<b>CKM2312</b>	<b>CKM2312SF</b>
		25 ft. (7.6m)	<b>CKM2325</b>	<b>CKM2325SF</b>

- Water-Cooled
- 300 amp ACHF or DCSP @ 100%
- 18" (45.7cm) 6 oz (170gm)
- 2 Series Head Accessories
- 1-3/8" (35mm) O.D. Barrel

HR-24 or HR-32 pitch rack available on request.

CKM230 REPLACEMENT PART PAGE LOCATOR:

2 Series Consumables: <b>54</b>	Torch: <b>51</b>	Cables: <b>50</b>	Adapter/Dinse: <b>39–42, 44</b>
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### CKM350 WATER-COOLED



CKM350 MACHINE TORCH				
HEAD STYLE	CABLE	LENGTH	STANDARD #	SUPER-FLEX #
Barrel Style	3 Piece	12½ ft. (3.8m)	<b>CKM3512</b>	<b>CKM3512SF</b>
		25 ft. (7.6m)	<b>CKM3525</b>	<b>CKM3525SF</b>

- Water-Cooled
- 400 amp ACHF or DCSP @ 100%
- 18" (45.7cm) 6-1/4 oz (177gm)
- 3 Series Head Accessories
- 1-3/8" (35mm) O.D. Barrel

HR-24 or HR-32 pitch rack available on request.

CKM350 REPLACEMENT PART PAGE LOCATOR:

3 Series Consumables: <b>55</b>	Torch: <b>51</b>	Cables: <b>50</b>	Adapter/Dinse: <b>39–42, 44</b>
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**PATENTED FLEXIBLE PURGE CHAMBER**

**BENEFITS**

- *Less argon required*
- *Collapsible, easily stored*
- *Multiple accessory & glove ports*
- *Less expensive*
- *Less time to fill*
- *Vacuum drawn*
- *Facilitates welding grade atmosphere*
- *30" (76.8cm) diameter*

**SPECIFICATIONS**

Height:..... 20" (51.2cm)  
 Width:.....30" (76.8cm)\*  
 Shipping weight:..... 47 lbs. (21.3kg)  
 Zipper length: ..... 60" (153.6cm)  
 Standard size: .....30" (76.8cm) diameter  
 24" (61.4cm) base



*\*Contact CK Worldwide for price and availability on other sizes.*

The patented CK Flexible Purge Chamber is used in the Tungsten Inert Gas (TIG) process to provide a completely inert atmosphere for the welding of reactive metals such as titanium, molybdenum, nickel-based and aluminum-based alloys, as well as non-reactive metals like stainless steel. Unique to this design is the ability to draw a vacuum around the product to be welded by collapsing the chamber. The chamber is then filled through a perforated hose that encircles the bottom of the chamber allowing the argon gas to expel all atmospheric gases more effectively through the top valve port. This significantly reduces the time required to reach an inert atmosphere suitable for welding, while using considerably less gas than traditional rigid purge chambers.

**ORDER #PC2000-24**



**INCLUDED PARTS:**

- *115V Vacuum pump (220V also available)*
- *Dual flowmeter/regulator*
- *2 Work stations*
- *2 Sets of gloves*
- *4 Accessory ports*
- *Heat blanket*
- *10 ft. (3m) Argon hose*
- *10 ft. (3m) Vacuum hose*
- *Repair kit*
- *Storage container*

**\*\*Custom designed chambers are also available – ANY SIZE\*\***



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# STEADY-GRIP™ TRIGGER AMPERAGE CONTROL

With a removable or adjustable “pistol grip” style handle, the new SGACV Steady-Grip™ gives the operator smooth, accurate, and ergonomic “trigger finger” control of the TIG Welding process. The Steady-Grip™ can be used with most Constant Current GTAW power sources and provides machine contactor on-off, gas solenoid activation and full range amperage control.

**NEW!**

- Complete ON/OFF and full Amperage Control
- Available for most power sources
- Protected against high frequency



**REMOVE HANDLE FOR USE AS LINEAR SLIDE CONFIGURATION**



TRIGGER AMPERAGE CONTROL SELECTOR CHART				
MACHINE MAKE POTENTIOMETER RATING	CONTROL TYPE	PLUG CONFIG & PIN COUNT	CONTROL CABLE LENGTH	VELCRO® STRAPS*
				ONE SIZE FITS ALL
LINCOLN ELECTRIC 10K Ohm	Steady-Grip	5 Pin Plug	15 ft. (4.6 m)	SGACV-10-1-L5
			28 ft. (8.5 m)	SGACV-10-2-L5
			53 ft. (16.2 m)	SGACV-10-3-L5
		6 Pin Plug	15 ft. (4.6 m)	SGACV-10-1-L6
			28 ft. (8.5 m)	SGACV-10-2-L6
			53 ft. (16.2 m)	SGACV-10-3-L6
MILLER ELECTRIC 1K Ohm	Steady-Grip	14 Pin Plug	15 ft. (4.6 m)	SGACV-1-1-M14
			28 ft. (8.5 m)	SGACV-1-2-M14
			53 ft. (16.2 m)	SGACV-1-3-M14
		5 Pin Plug	15 ft. (4.6 m)	SGACV-1-1-M5
			28 ft. (8.5 m)	SGACV-1-2-M5
			53 ft. (16.2 m)	SGACV-1-3-M5

CONTACT FACTORY FOR OTHER TIG MACHINES

\*Velcro® style is the only available style for Steady-Grip™

TRIGGER AMPERAGE CONTROL CKWORLDWIDE

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## ROTARY AMPERAGE CONTROL

Remote amperage controls provide welding power source contactor on-off, activate gas and/or water solenoids, and provide full range current output control. Handle styles include Velcro® straps where one size fits all handle diameters and retrofits easily on all makes of torches or built into the handle as original equipment. A built in strain-relief prevents the control cord from being pulled out or damaged.

- Replace foot pedal amperage controls with fingertip operated amperage controls
- Velcro strap allows amperage control to quickly mount on any TIG torch or Stick electrode holder
- Amperage controls available as a complete handle assembly
- Fits most popular TIG machines
- Custom lengths available up to 200 ft. (61m)



**BUILT-IN**  
(For CK torches)



Finger Guards

Velcro® MODEL



### ROTARY AMPERAGE CONTROL SELECTOR CHART

MACHINE MAKE POTENTIOMETER RATING	PLUG CONFIG & PIN COUNT	CONTROL CABLE LENGTH	VELCRO® STRAPS*		
			ONE SIZE FITS ALL	BUILT IN HANDLE FOR CK TORCHES	
				SMALL	MEDIUM
MILLER ELECTRIC 1K Ohm	14 Pin Plug	15 ft. (4.6 m)	RACCV-1-1-M14	RAC2S-1-1-M14	RAC2M-1-1-M14
		28 ft. (8.5 m)	RACCV-1-2-M14	RAC2S-1-2-M14	RAC2M-1-2-M14
		53 ft. (16.2 m)	RACCV-1-3-M14	RAC2S-1-3-M14	RAC2M-1-3-M14
	5 Pin Plug	15 ft. (4.6 m)	RACCV-1-1-M5	RAC2S-1-1-M5	RAC2M-1-1-M5
		28 ft. (8.5 m)	RACCV-1-2-M5	RAC2S-1-2-M5	RAC2M-1-2-M5
		53 ft. (16.2 m)	RACCV-1-3-M5	RAC2S-1-3-M5	RAC2M-1-3-M5
	6 Pin Plug	15 ft. (4.6 m)	RACCV-1-1-M6	RAC2S-1-1-M6	RAC2M-1-1-M6
		28 ft. (8.5 m)	RACCV-1-2-M6	RAC2S-1-2-M6	RAC2M-1-2-M6
		53 ft. (16.2 m)	RACCV-1-3-M6	RAC2S-1-3-M6	RAC2M-1-3-M6
TWECO** 5K Ohm	14 Pin Plug	15 ft. (4.6 m)	RACCV-5-1-TD14	RAC2S-5-1-TD14	RAC2M-5-1-TD14
		28 ft. (8.5 m)	RACCV-5-2-TD14	RAC2S-5-2-TD14	RAC2M-5-2-TD14
		53 ft. (16.2 m)	RACCV-5-3-TD14	RAC2S-5-3-TD14	RAC2M-5-3-TD14
	8 Pin Plug	15 ft. (4.6 m)	RACCV-5-1-TD8	RAC2S-5-1-TD8	RAC2M-5-1-TD8
		28 ft. (8.5 m)	RACCV-5-2-TD8	RAC2S-5-2-TD8	RAC2M-5-2-TD8
		53 ft. (16.2 m)	RACCV-5-3-TD8	RAC2S-5-3-TD8	RAC2M-5-3-TD8
LINCOLN ELECTRIC 10K Ohm	14 Pin Plug	15 ft. (4.6 m)	RACCV-10-1-L14	RAC2S-10-1-L14	RAC2M-10-1-L14
		28 ft. (8.5 m)	RACCV-10-2-L14	RAC2S-10-2-L14	RAC2M-10-2-L14
		53 ft. (16.2 m)	RACCV-10-3-L14	RAC2S-10-3-L14	RAC2M-10-3-L14
	5 Pin Plug	15 ft. (4.6 m)	RACCV-10-1-L5	RAC2S-10-1-L5	RAC2M-10-1-L5
		28 ft. (8.5 m)	RACCV-10-2-L5	RAC2S-10-2-L5	RAC2M-10-2-L5
		53 ft. (16.2 m)	RACCV-10-3-L5	RAC2S-10-3-L5	RAC2M-10-3-L5
	6 Pin Plug	15 ft. (4.6 m)	RACCV-10-1-L6	RAC2S-10-1-L6	RAC2M-10-1-L6
		28 ft. (8.5 m)	RACCV-10-2-L6	RAC2S-10-2-L6	RAC2M-10-2-L6
		53 ft. (16.2 m)	RACCV-10-3-L6	RAC2S-10-3-L6	RAC2M-10-3-L6

CONTACT FACTORY FOR OTHER TIG MACHINES

\*Only Velcro® Style will fit Valved CKC150s and Valved Flex-Locs \*\*Tweco 186 AC/DC not available



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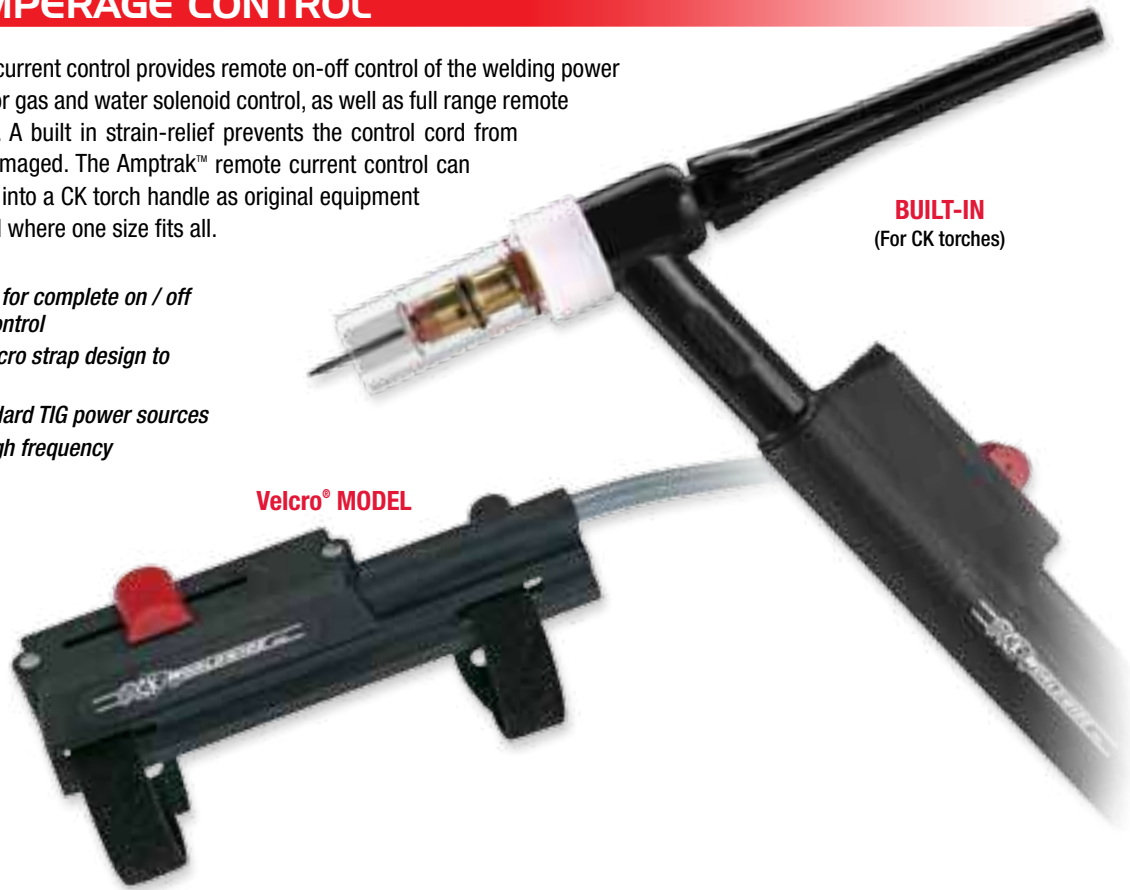


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# LINEAR AMPERAGE CONTROL

The Amtrak™ remote current control provides remote on-off control of the welding power source contactor and/or gas and water solenoid control, as well as full range remote current output control. A built in strain-relief prevents the control cord from being pulled out or damaged. The Amtrak™ remote current control can be ordered either built into a CK torch handle as original equipment or in the Velcro™ model where one size fits all.

- Linear slide actuator for complete on / off and full amperage control
- Built in handle or Velcro strap design to fit all TIG torches
- Adapts to most standard TIG power sources
- Protected against high frequency



LINEAR AMPERAGE CONTROL SELECTOR CHART

MACHINE MAKE POTENTIOMETER RATING	PLUG CONFIG & PIN COUNT	CONTROL CABLE LENGTH	VELCRO® STRAPS*	BUILT IN HANDLE FOR CK TORCHES		
			ONE SIZE FITS ALL	SMALL <small>CK9, CK17, CK20, CK24, CK24W, CK80, CK90, CK100, CK130, CK150, CKC150*, CK200, CKT200, FLEX-LOC*</small>	MEDIUM <small>CK230, CKA10, CKA20, TL18, TL26, TL210, TL300</small>	LARGE <small>CK18, CK26, CK210, CK300, CK350, CK510</small>
MILLER ELECTRIC 1K Ohm	14 Pin Plug	15 ft. (4.6 m)	AMTCV-1-1-M14	AMT2S-1-1-M14	AMT2M-1-1-M14	AMT2L-1-1-M14
		28 ft. (8.5 m)	AMTCV-1-2-M14	AMT2S-1-2-M14	AMT2M-1-2-M14	AMT2L-1-2-M14
		53 ft. (16.2 m)	AMTCV-1-3-M14	AMT2S-1-3-M14	AMT2M-1-3-M14	AMT2L-1-3-M14
	5 Pin Plug	15 ft. (4.6 m)	AMTCV-1-1-M5	AMT2S-1-1-M5	AMT2M-1-1-M5	AMT2L-1-1-M5
		28 ft. (8.5 m)	AMTCV-1-2-M5	AMT2S-1-2-M5	AMT2M-1-2-M5	AMT2L-1-2-M5
		53 ft. (16.2 m)	AMTCV-1-3-M5	AMT2S-1-3-M5	AMT2M-1-3-M5	AMT2L-1-3-M5
	6 Pin Plug	15 ft. (4.6 m)	AMTCV-1-1-M6	AMT2S-1-1-M6	AMT2M-1-1-M6	AMT2L-1-1-M6
		28 ft. (8.5 m)	AMTCV-1-2-M6	AMT2S-1-2-M6	AMT2M-1-2-M6	AMT2L-1-2-M6
		53 ft. (16.2 m)	AMTCV-1-3-M6	AMT2S-1-3-M6	AMT2M-1-3-M6	AMT2L-1-3-M6
TWECO** 5K Ohm	14 Pin Plug	15 ft. (4.6 m)	AMTCV-5-1-TD14	AMT2S-5-1-TD14	AMT2M-5-1-TD14	AMT2L-5-1-TD14
		28 ft. (8.5 m)	AMTCV-5-2-TD14	AMT2S-5-2-TD14	AMT2M-5-2-TD14	AMT2L-5-2-TD14
		53 ft. (16.2 m)	AMTCV-5-3-TD14	AMT2S-5-3-TD14	AMT2M-5-3-TD14	AMT2L-5-3-TD14
	8 Pin Plug	15 ft. (4.6 m)	AMTCV-5-1-TD8	AMT2S-5-1-TD8	AMT2M-5-1-TD8	AMT2L-5-1-TD8
		28 ft. (8.5 m)	AMTCV-5-2-TD8	AMT2S-5-2-TD8	AMT2M-5-2-TD8	AMT2L-5-2-TD8
		53 ft. (16.2 m)	AMTCV-5-3-TD8	AMT2S-5-3-TD8	AMT2M-5-3-TD8	AMT2L-5-3-TD8
LINCOLN ELECTRIC 10K Ohm	14 Pin Plug	15 ft. (4.6 m)	AMTCV-10-1-L14	AMT2S-10-1-L14	AMT2M-10-1-L14	AMT2L-10-1-L14
		28 ft. (8.5 m)	AMTCV-10-2-L14	AMT2S-10-2-L14	AMT2M-10-2-L14	AMT2L-10-2-L14
		53 ft. (16.2 m)	AMTCV-10-3-L14	AMT2S-10-3-L14	AMT2M-10-3-L14	AMT2L-10-3-L14
	5 Pin Plug	15 ft. (4.6 m)	AMTCV-10-1-L5	AMT2S-10-1-L5	AMT2M-10-1-L5	AMT2L-10-1-L5
		28 ft. (8.5 m)	AMTCV-10-2-L5	AMT2S-10-2-L5	AMT2M-10-2-L5	AMT2L-10-2-L5
		53 ft. (16.2 m)	AMTCV-10-3-L5	AMT2S-10-3-L5	AMT2M-10-3-L5	AMT2L-10-3-L5
	6 Pin Plug	15 ft. (4.6 m)	AMTCV-10-1-L6	AMT2S-10-1-L6	AMT2M-10-1-L6	AMT2L-10-1-L6
		28 ft. (8.5 m)	AMTCV-10-2-L6	AMT2S-10-2-L6	AMT2M-10-2-L6	AMT2L-10-2-L6
		53 ft. (16.2 m)	AMTCV-10-3-L6	AMT2S-10-3-L6	AMT2M-10-3-L6	AMT2L-10-3-L6

CONTACT FACTORY FOR OTHER TIG MACHINES

\*Only Velcro® Style will fit Valved CKC150s and Valved Flex-Locs \*\*Tweco 186 AC/DC not available

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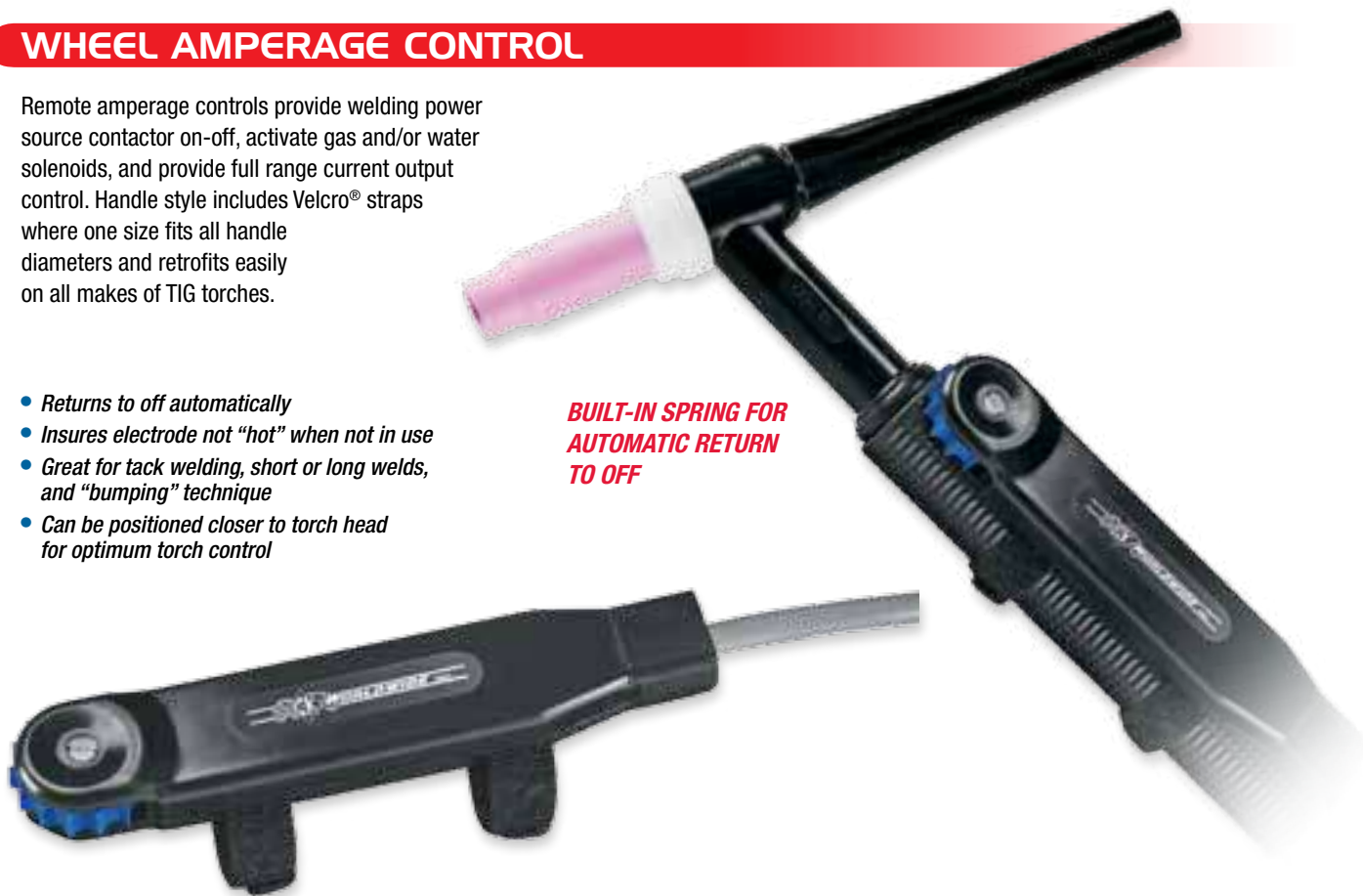
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## WHEEL AMPERAGE CONTROL

Remote amperage controls provide welding power source contactor on-off, activate gas and/or water solenoids, and provide full range current output control. Handle style includes Velcro® straps where one size fits all handle diameters and retrofits easily on all makes of TIG torches.

- Returns to off automatically
- Insures electrode not "hot" when not in use
- Great for tack welding, short or long welds, and "bumping" technique
- Can be positioned closer to torch head for optimum torch control

**BUILT-IN SPRING FOR  
AUTOMATIC RETURN  
TO OFF**



WHEELED AMPERAGE CONTROL SELECTOR CHART

MACHINE MAKE POTENTIOMETER RATING	PLUG CONFIG & PIN COUNT	CONTROL CABLE LENGTH	VELCRO® STRAPS
			ONE SIZE FITS ALL
MILLER ELECTRIC 1K Ohm	14 Pin Plug	15 ft. (4.6 m)	WACCV-1-1-M14
		28 ft. (8.5 m)	WACCV-1-2-M14
		53 ft. (16.2 m)	WACCV-1-3-M14
	5 Pin Plug	15 ft. (4.6 m)	WACCV-1-1-M5
		28 ft. (8.5 m)	WACCV-1-2-M5
		53 ft. (16.2 m)	WACCV-1-3-M5
	6 Pin Plug	15 ft. (4.6 m)	WACCV-1-1-M6
		28 ft. (8.5 m)	WACCV-1-2-M6
		53 ft. (16.2 m)	WACCV-1-3-M6
TWECO* 5K Ohm	14 Pin Plug	15 ft. (4.6 m)	WACCV-5-1-TD14
		28 ft. (8.5 m)	WACCV-5-2-TD14
		53 ft. (16.2 m)	WACCV-5-3-TD14
	8 Pin Plug	15 ft. (4.6 m)	WACCV-5-1-TD8
		28 ft. (8.5 m)	WACCV-5-2-TD8
		53 ft. (16.2 m)	WACCV-5-3-TD8
LINCOLN ELECTRIC 10K Ohm	14 Pin Plug	15 ft. (4.6 m)	WACCV-10-1-L14
		28 ft. (8.5 m)	WACCV-10-2-L14
		53 ft. (16.2 m)	WACCV-10-3-L14
	5 Pin Plug	15 ft. (4.6 m)	WACCV-10-1-L5
		28 ft. (8.5 m)	WACCV-10-2-L5
		53 ft. (16.2 m)	WACCV-10-3-L5
	6 Pin Plug	15 ft. (4.6 m)	WACCV-10-1-L6
		28 ft. (8.5 m)	WACCV-10-2-L6
		53 ft. (16.2 m)	WACCV-10-3-L6

CONTACT FACTORY FOR OTHER TIG MACHINES

\*Tweco 186 AC/DC not available



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**REMOTE CONTACTOR CONTROL/ELECTRIC SWITCH**

- Locking switch
- Momentary switch
- TIG power source contactor on/off
- Good for 2T / 4T applications

ELECTRIC SWITCH - SELECTOR CHART		
SWITCH TYPE	CABLE LENGTH	ELECTRIC SWITCH CLIPPER VELCRO® MODELS
		ONE SIZE FITS ALL
LOCKING SW2	13 ft. (3.9m)	ESLCV12
	26 ft. (7.8m)	ESLCV25
MOMENTARY SW3	13 ft. (3.9m)	ESCV12
	26 ft. (7.8m)	ESCV25

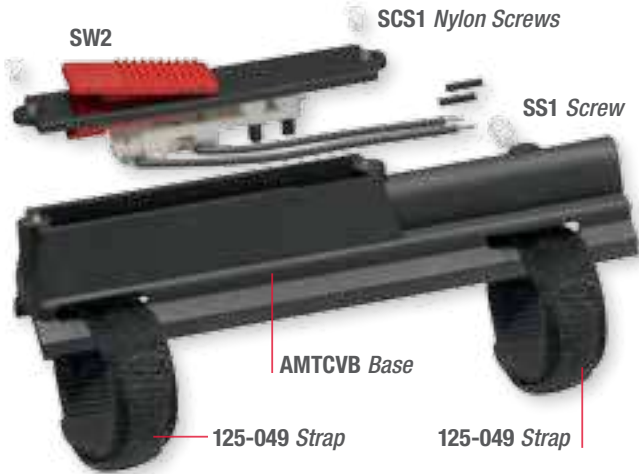
\*Built-in handle options available, please contact CK Worldwide for part numbers.



**SW2**  
Locking Switch

**SW3**  
Momentary Switch

**SW2**  
LOCKING SWITCH COMPONENTS



**SW3**  
MOMENTARY SWITCH COMPONENTS



**TO REPLACE SW2 ELECTRIC SWITCH:**

1. Carefully solder the control wires to the switch leads and insulate the connection with heat shrink tubing or tape. Make sure that final diameter is not too great to fit inside the control wire housing.
2. For best results, ease the switch into the rear part of the handle cavity first (a small screwdriver is useful in easing the lead wires into the cavity). Then, gently push the switch forward and down into the proper position and secure it with the switch screws.
3. Secure the control wire with the nylon set screw at the rear of the handle.

**TO REPLACE SW4 PLUG-IN SWITCH:**

1. Remove the nylon switch cover screws, switch cover and switch button.
2. Unplug the inoperative micro switch and plug in a new micro switch.
3. Re-assemble the switch and switch cover over the new micro switch and secure the cover to the handle with the nylon switch screws.  
**CAUTION: DO NOT OVERTIGHTEN THE NYLON SCREWS.**

## TRAILING CUPS/PURGE CUPS—PREMIUM

When welding with metals such as Titanium, a secondary inert shielding gas application is necessary to protect the cooling weld bead and heat-affected zone. Trailing cups prevent oxidation by shielding the weld from the atmosphere until it has cooled to a safe temperature. 12-1/2 foot (3.8m) argon hose included with each item.



**Purge Cup, 4" (10.2 cm)**  
**ORDER # PC-4S**



**Trailing Cup, 3" (7.6 cm)**  
**ORDER # TC-3S**



**Purge Cup, 4" (10.2 cm) Diameter**  
**ORDER # PC-4R**



**Trailing Cup, 3-5" (7.6-12.7 cm) Diameter Pipe**  
**ORDER # TC-3R**

## TRAILING SHIELDS—STANDARD

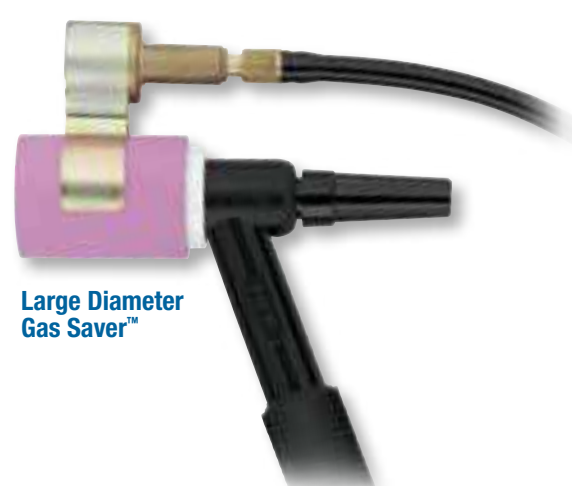
- Clips onto standard or jumbo gas lens cups
- Uses a modified jumbo gas lens as trailing shield
- Can be repositioned for different weld angles
- Includes 25 foot (7.62m) Argon hose

### TRAILING SHIELDS:

USE ON TORCHES	CUP SIZE	ORDER NUMBER
CK9, CK20	STANDARD	<b>TS200</b>
CK17, CK18, CK26	STANDARD	<b>TS300</b>
CK9, CK17, CK18, CK20, CK26	LARGE DIAMETER	<b>TS300LD</b>



**Standard Gas Saver™**



**Large Diameter Gas Saver™**



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# DINSE-25, 35

## DINSE-25,35

LINCOLN	MILLER	THERMAL ARC/TWECO
Invertec V155-S (25*)	Dynasty 200 (35**)	95S (25*)
Invertec V200T (35**)	Dynasty 300 (35**)	161S (35**)
Invertec V250-S (35**)	Dynasty 350 (35**)	161STL (35**)
Invertec V350-PRO (35**)	Maxstar 150S (25*)	186i (35**)
Power MIG 210MP (35*)	Maxstar 200 (35**)	201TS (35**)
	Maxstar 300 (35**)	Fabricator 141i (25**)
	Maxstar 350 (35**)	Fabricator 181i (35**)
	Syncrowave 250DX (35**)	Fabricator 211i (35**)
	Syncrowave 350LX (35**)	Fabricator 252i (35**)
	XMT 304 CC/CV (35**)	ArcMaster 185 (35**)
	XMT 350 CC/CV (35**)	ArcMaster 200 (35**)
		ArcMaster 300 (35**)



**DINSE 25**  
(3/8" 9.5mm)



**DINSE 35**  
(1/2" 12.8mm)

\*DINSE 25  
\*\*DINSE 35

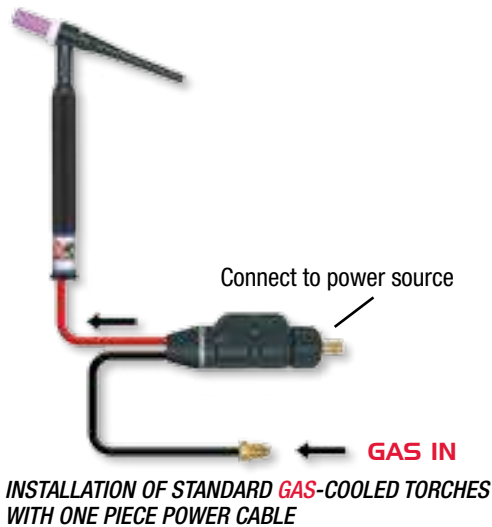
## GAS-COOLED

### DINSE 25 (3/8" 9.5mm) STYLE GAS-COOLED

TORCHES	ORDER #
CK24, 80, 90, 100	SL2-25-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL2-25
MT100, CKC150, CK210, TL210, CKA16	SL5-25
CK26, TL26	SL8-25

### DINSE 35 (1/2" 12.8mm) STYLE GAS-COOLED

TORCHES	ORDER #
CK24, 80, 90, 100	SL2-35-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL2-35
CKC150, CK210, TL210, CKA16	SL5-35
CK26, TL26	SL8-35



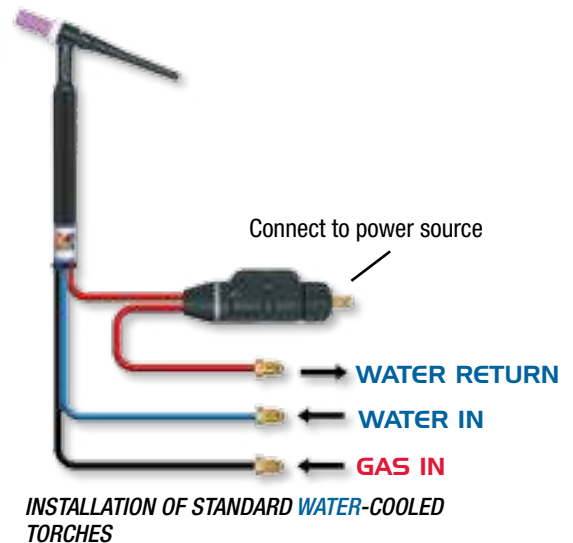
## WATER-COOLED

### DINSE 25 (3/8" 9.5mm) STYLE WATER-COOLED

TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-25

### DINSE 35 (1/2" 12.8mm) STYLE WATER-COOLED

TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-35



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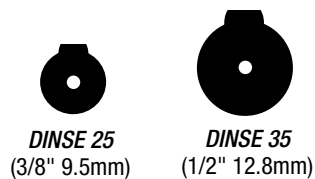
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# DINSE GAS-THRU-25M, 35M

## DINSE FLOW THRU-25M, 35M

LINCOLN	MILLER
Invertec V160T (35**)	Maxstar 150STL (25*)
Invertec V205T (35**)	Maxstar 150STH (25*)
Invertec V311T (35**)	Econotig (35**)
Precision TIG 225 (35**)	Syncrowave 180SD (35**)
Squarewave TIG 175 (35**)	Syncrowave 200 (35**)
Squarewave TIG 185 (35**)	Syncrowave 210 (35**)
Squarewave TIG 275 (35**)	
Squarewave TIG 375 (35**)	
Aspect 300/375 (35**)	

\*DINSE 25  
\*\*DINSE 35



## GAS-COOLED

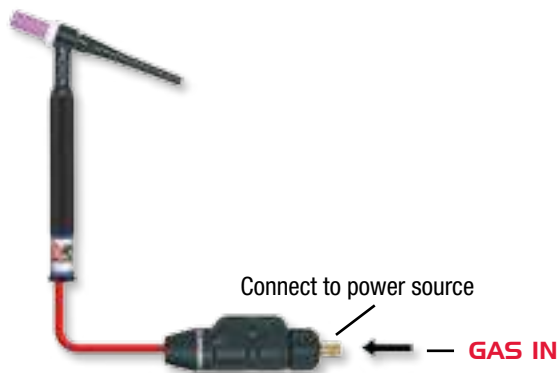
### DINSE 25 (3/8" 9.5mm) STYLE GAS-COOLED

TORCHES	ORDER #
CK24, 80, 90, 100	SL2-25M-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL2-25M
MT100, CKC150, CK210, TL210, CKA16	SL5-25M
CK26, TL26	SL8-25M

### DINSE 35 (1/2" 12.8mm) STYLE GAS-COOLED

TORCHES	ORDER #
CK24, 80, 90, 100	SL2-35M-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL2-35M
MT100, CKC150, CK210, TL210, CKA16	SL5-35M
CK26, TL26	SL8-35M

INSTALLATION OF GAS-THRU DINSE CONNECTORS FOR GAS-COOLED TORCHES



## WATER-COOLED

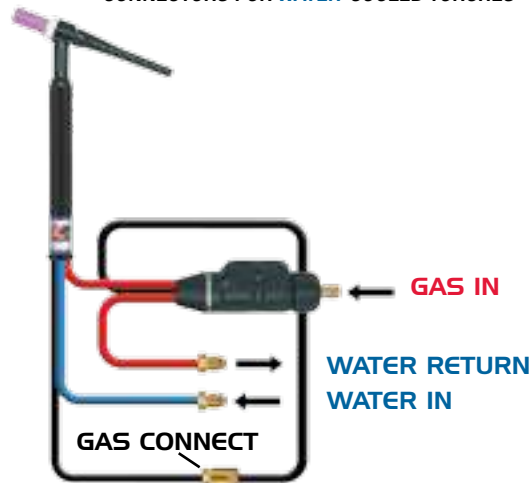
### DINSE 25 (3/8" 9.5mm) STYLE WATER-COOLED

TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-25M

### DINSE 35 (1/2" 12.8mm) STYLE WATER-COOLED

TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-35M

INSTALLATION OF GAS-THRU DINSE CONNECTORS FOR WATER-COOLED TORCHES



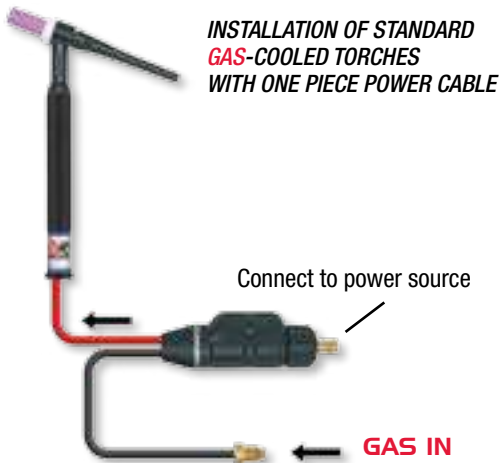
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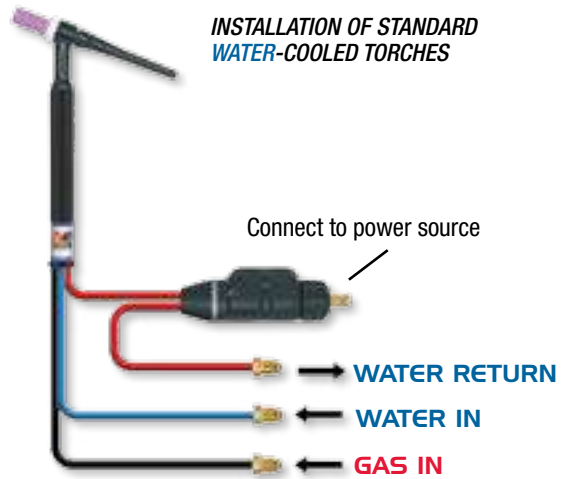
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**GAS-COOLED**



**WATER-COOLED**



**TWECO**

**TWECO STYLE GAS-COOLED**

TORCHES	ORDER #
CK24, 80, 90, 100	SL-2-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL-2
MT100, CKC150, CK210, TL210, CKA16	SL-5
CK26, TL26	SL-8

**TWECO STYLE WATER-COOLED**

TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-T

**CAM-LOCK**

**CAM-LOCK STYLE GAS-COOLED**

TORCHES	ORDER #
CK24, 80, 90, 100	SL2-CL-24
CK9, 17, 130, 150, FL130, FL150, MR70	SL2-CL
MT100, CKC150, CK210, TL210, CKA16	SL5-CL
CK26, TL26	SL8-CL

**CAM-LOCK STYLE WATER-COOLED**

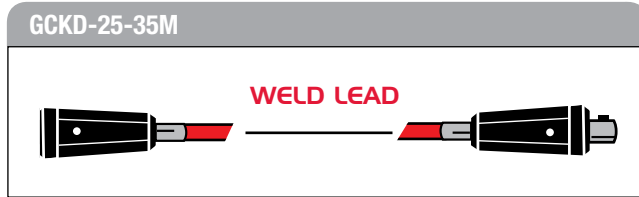
TORCHES	ORDER #
CK18, 20, 25, 180, 200, CKT200, CK230, CK300, TL300, CK510, CK24W, FL230, FL250, MR140, MT300, MT400, MT500	SLWHAT-CL

## CABLE EXTENSIONS

### GCKD-25-35M GAS-COOLED

Used for Gas-Cooled Torches. GCKD-25-35M kit consists of:

- One 25 foot (7.6m) power and gas extension with 35 Dinse Gas-Thru connectors

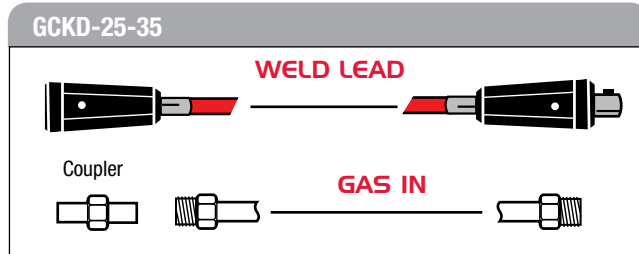
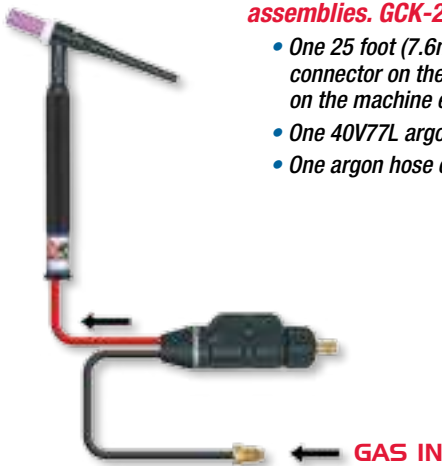


Requires Dinse 35M connector installed on torch. Refer to page 40 for Selector Chart.

### GCKD-25-35 GAS-COOLED

Used for Gas-Cooled Torches, single piece or two piece cable assemblies. GCK-25-35 kit consists of:

- One 25 foot (7.6m) #2 awg weld lead power cable with female Tweco connector on the torch end, and a 35 Dinse Non Gas-Thru Connection on the machine end
- One 40V77L argon hose extension
- One argon hose coupler

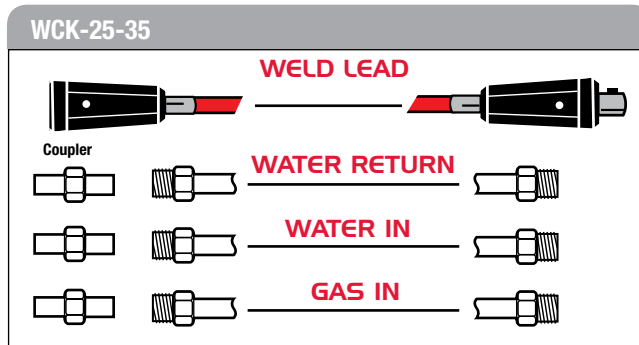
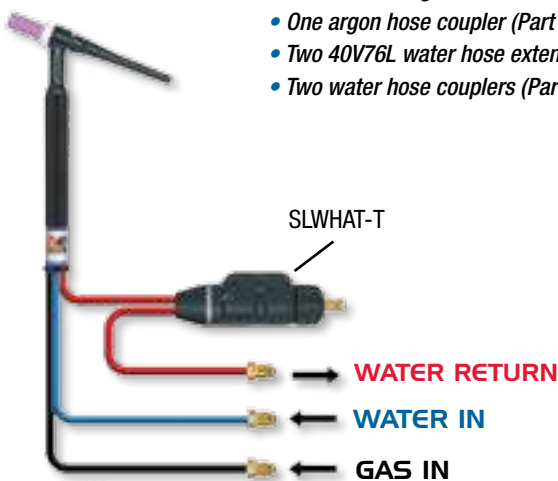


Requires Tweco Safe-Loc connector installed on torch. Refer to page 41 for Selector Chart.

### WCK-25-35 WATER-COOLED

Used for Water-Cooled Torches. WCK-25 kit consists of:

- One 25 foot (7.6m) #2 awg weld lead power cable with female Tweco connector on the torch end, and a 35 Dinse Non Gas-Thru Connection on the machine end
- One 40V77L argon hose extension
- One argon hose coupler (Part # 3026)
- Two 40V76L water hose extensions
- Two water hose couplers (Part # 3027)



Requires SLWHAT-T connector installed on torch.



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## CABLE EXTENSIONS

### EK-2-25 GAS-COOLED

EK-2-25 kit consists of:

- One power Cable 25' (7.6m) (Part # 57Y03R)
- 150CE includes one power Cable Coupler (Part # 2654) & Insulator (Part # 2655)



### EK-1-25 WATER-COOLED

EK-1-25 kit consists of:

- One power Cable 25' (7.6m) (Part # 40V78LR)
- One extension Water Hose 25' (7.6m) (Part # 40V76L)
- One extension Gas Hose 25' (7.6m) (Part # 40V77L)
- One power Cable Coupler (Part # 2678) & Insulator (Part # 2677)
- One water Hose Coupler (Part # 3027)
- One gas Hose Coupler (Part # 3026)



## LEATHER VELCRO HOSE COVERS CK EXCLUSIVE

- Abrasion resistant
- Heat resistant
- UV resistant
- Oil resistant
- Flame resistant
- Durable leather protective cover
- Easy opening and closing
- Remains flexible in all climates
- Lightweight, supple
- No more damaged zippers or snaps



### LEATHER HOSE COVERS CK EXCLUSIVE

USED ON TORCHES	LENGTH	WIDTH	INSIDE DIAMETER	ORDER #
CK9, CK20	10 ft. (3.0m)	3-3/4" (95mm)	1" (25mm)	212HCLV
	22 ft. (7.0m)	3-3/4" (95mm)	1" (25mm)	225HCLV
CK17, CK18, CK26	10 ft. (3.0m)	4-1/2" (114mm)	1-1/4" (31mm)	312HCLV
	22 ft. (7.0m)	4-1/2" (114mm)	1-1/4" (31mm)	325HCLV

\*Custom lengths available on request

## ZIPPER NYLON \*WOVEN NYLON WITH ZIPPER FASTENER

- Durable nylon weave
- Abrasion resistant
- UV resistant
- Lightweight
- Zipper fastener

### ZIPPER NYLON

USE WITH	LENGTH	WIDTH	ORDER #
All Packages	10 ft. (3m)	3" (76mm)	CC-3-10
	22 ft. (7m)	3" (76mm)	CC-3-22
Amperage Control	10 ft. (3m)	4" (101mm)	CC-4-10
	22 ft. (7m)	4" (101mm)	CC-4-22








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## POWER CABLE ADAPTERS

### GAS-COOLED

<b>1PCA</b> (53N43)  3/8"-24 RH      5/8"-18 RH Used with: CK24, CK80, CK90, CK100	<b>45V62</b>  7/8"-14 RH      5/8"-18 RH Used with: CK26, TL26	<b>15PCA</b> (105Z57)  3/8"-24 RH      5/8"-18 RH Used with: CK9, CK17, CK130, CK150, FL130, FL150, MR70	<b>21HPCA</b> (2310-1879)  5/8"-18 RH      5/8"-18 RH Used with: CKC150, CK210, TL210, MT100, CKA16	<b>APCA10</b> (2310-2101)  7/16"-20 RH      5/8"-18 RH Used with: CKA10
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### WATER-COOLED

<b>APCA35</b> (2310-0375)  5/8"-18 LH      5/8"-18 LH Used with: CKA35	<b>2PCA</b> (45V11)  7/8"-14 LH      5/8"-18 LH Used with: CK18, CK20, CK24W, CK25, CK180, CK200, CK230, CK300, CK510, TL18, TL300, FL230, FL250, MR140, MT400, MT500	<b>APCA20</b> (2310-1824)  3/8"-24 RH      5/8"-18 LH Used with: CKA20
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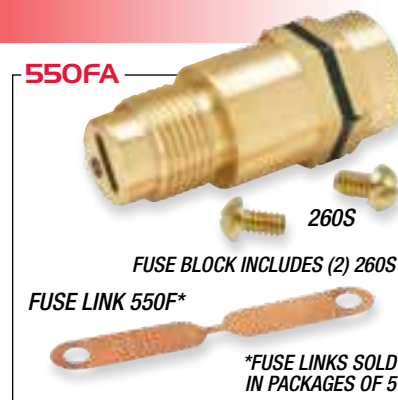
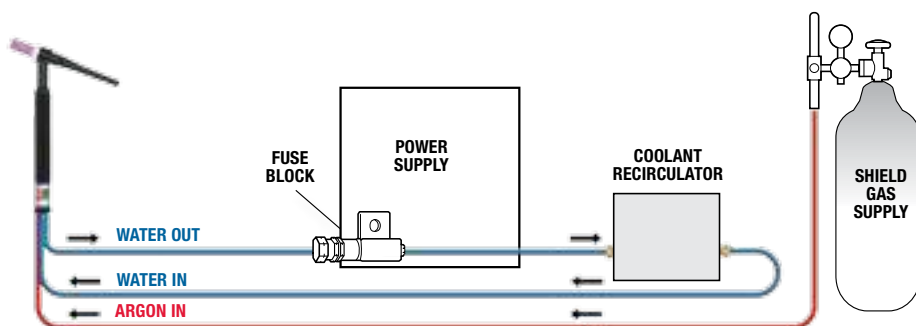
### WATER-COOLED TORCH PROTECTION

Water-cooled power cables can burn up within seconds if water is not recirculating through the cable assembly. This causes increased down time and expense. A simple solution to this far too common problem is an in-line fuse link. This device fits in-between the power cable and the power cable adapter. A simple change of an inexpensive fuse link gets the welder back up and running.

USED ON TORCHES	DESCRIPTION	PART NUMBER
CK20, CK18	550 Amp fuse block & 5 fuses	550FA



### FUSE BLOCK ASSEMBLY



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# STANDARD POWER CABLES / HOSES

## CK9, CK17 GAS-COOLED

1 PIECE STANDARD POWER CABLE



1 PIECE SUPER-FLEX POWER CABLE



2 PIECE STANDARD POWER CABLE

ARGON HOSE



WELD LEAD

2 PIECE SUPER-FLEX POWER CABLE

ARGON HOSE



WELD LEAD

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	57Y01R	57Y01RSF
25 ft. (7.6m)	57Y03R	57Y03RSF
LENGTH	2 PIECE CABLES	2 PIECE CABLES
	12-1/2 ft. (3.8m)	57Y01-2
25 ft. (7.6m)	57Y03-2	57Y03-2SF
LENGTH	WELD LEAD	
	12-1/2 ft. (3.8m)	1512CN
25 ft. (7.6m)	1525CN	
LENGTH	ARGON HOSE	ARGON HOSE
	12-1/2 ft. (3.8m)	45V09
25 ft. (7.6m)	45V10	45V10SF

## CK24 GAS-COOLED

1 PIECE STANDARD POWER CABLE



1 PIECE SUPER-FLEX POWER CABLE



2 PIECE STANDARD POWER CABLE

ARGON HOSE



WELD LEAD

2 PIECE SUPER-FLEX POWER CABLE

ARGON HOSE



WELD LEAD

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	56Y38R	56Y38RSF
25 ft. (7.6m)	56Y97R	56Y97RSF
LENGTH	2 PIECE CABLES	2 PIECE CABLES
	12-1/2 ft. (3.8m)	56Y38-2
25 ft. (7.6m)	56Y97-2	56Y97-2SF
LENGTH	WELD LEAD	
	12-1/2 ft. (3.8m)	112CN
25 ft. (7.6m)	125CN	
LENGTH	ARGON HOSE	ARGON HOSE
	12-1/2 ft. (3.8m)	45V09
25 ft. (7.6m)	45V10	45V10SF

## CK26, TL26 GAS-COOLED

1 PIECE STANDARD POWER CABLE



1 PIECE SUPER-FLEX POWER CABLE



2 PIECE STANDARD POWER CABLE

ARGON HOSE



WELD LEAD

2 PIECE SUPER-FLEX POWER CABLE

ARGON HOSE



WELD LEAD

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	46V28R	46V28RSF
25 ft. (7.6m)	46V30R	46V30RSF
LENGTH	2 PIECE CABLES	2 PIECE CABLES
	12-1/2 ft. (3.8m)	46V28-2
25 ft. (7.6m)	46V30-2	46V30-2SF
LENGTH	WELD LEAD	
	12-1/2 ft. (3.8m)	412CN
25 ft. (7.6m)	425CN	
LENGTH	ARGON HOSE	ARGON HOSE
	12-1/2 ft. (3.8m)	40V75
25 ft. (7.6m)	41V30	41V30SF

## CK18 WATER-COOLED

STANDARD POWER CABLE



SUPER-FLEX POWER CABLE



ARGON HOSE



WATER HOSE



LENGTH	STANDARD	SUPER-FLEX
	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	40V64	40V64SF
25 ft. (7.6m)	41V29	41V29SF
LENGTH	WATER HOSE	WATER HOSE
	12-1/2 ft. (3.8m)	40V74
25 ft. (7.6m)	41V32	41V32SF
LENGTH	ARGON HOSE	ARGON HOSE
	12-1/2 ft. (3.8m)	40V75
25 ft. (7.6m)	41V30	41V30SF

## STANDARD POWER CABLES / HOSES

### TL18 WATER-COOLED

STANDARD POWER CABLE



3/8"-24 LH

7/8"-14 LH

SUPER-FLEX POWER CABLE



3/8"-24 LH

7/8"-14 LH

ARGON HOSE



5/8"-18 RH

WATER HOSE



5/8"-18 LH

LENGTH	STANDARD	SUPER-FLEX
	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	2312PC	2312PCSF
25 ft. (7.6m)	2325PC	2325PCSF

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	45V07	45V07SF
25 ft. (7.6m)	45V08	45V08SF

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	45V09	45V09SF
25 ft. (7.6m)	45V10	45V10SF

### CK20, CK24W, CK25 WATER-COOLED

STANDARD POWER CABLE



1/4"-28 RH

7/8"-14 LH

SUPER-FLEX POWER CABLE



1/4"-28 RH

7/8"-14 LH

ARGON HOSE



5/8"-18 RH

WATER HOSE



5/8"-18 LH

LENGTH	STANDARD	SUPER-FLEX
	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	45V03	45V03SF
25 ft. (7.6m)	45V04	45V04SF

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	45V07	45V07SF
25 ft. (7.6m)	45V08	45V08SF

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	45V09	45V09SF
25 ft. (7.6m)	45V10	45V10SF

## MASTER TIG POWER CABLES / HOSES



### CK80, CK90, CK100 GAS-COOLED

1 PIECE STANDARD POWER CABLE



3/8"-24 Female

3/8"-24 Female

1 PIECE SUPER-FLEX POWER CABLE



3/8"-24 Female

3/8"-24 Female

2 PIECE STANDARD POWER CABLE

ARGON HOSE



3/8"-24 Female

WELD LEAD

5/8"-18 RH

2 PIECE SUPER-FLEX POWER CABLE

ARGON HOSE



3/8"-24 Female

WELD LEAD

5/8"-18 RH

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	112PCHF	112PCSF
25 ft. (7.6m)	125PCHF	125PCSF

LENGTH	2 PIECE CABLES	2 PIECE CABLES
12-1/2 ft. (3.8m)	112PCN	112PCNSF
25 ft. (7.6m)	125PCN	125PCNSF

LENGTH	WELD LEAD	
12-1/2 ft. (3.8m)	112CN	
25 ft. (7.6m)	125CN	

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF

### CK130, CK150, CKM150, MR70 GAS-COOLED

1 PIECE STANDARD POWER CABLE



3/8"-24 RH

3/8"-24 RH

1 PIECE SUPER-FLEX POWER CABLE



3/8"-24 RH

3/8"-24 RH

2 PIECE STANDARD POWER CABLE

ARGON HOSE



3/8"-24 RH

WELD LEAD

5/8"-18 RH

2 PIECE SUPER-FLEX POWER CABLE

ARGON HOSE



3/8"-24 RH

WELD LEAD

5/8"-18 RH

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	1512PCHF	1512PCSF
25 ft. (7.6m)	1525PCHF	1525PCSF

LENGTH	2 PIECE CABLES	2 PIECE CABLES
12-1/2 ft. (3.8m)	1512PCN	1512PCNSF
25 ft. (7.6m)	1525PCN	1525PCNSF

LENGTH	WELD LEAD	
12-1/2 ft. (3.8m)	1512CN	
25 ft. (7.6m)	1525CN	

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF

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# MASTER TIG POWER CABLES / HOSES

## CKC150 GAS-COOLED

1 PIECE STANDARD POWER CABLE



1/8"-28 BSP

5/8"-18 RH

1 PIECE SUPER-FLEX POWER CABLE



1/8"-28 BSP

5/8"-18 RH

2 PIECE STANDARD POWER CABLE



1/8"-28 BSP

ARGON HOSE

5/8"-18 RH

WELD LEAD

2 PIECE SUPER-FLEX POWER CABLE



1/8"-28 BSP

ARGON HOSE

5/8"-18 RH

WELD LEAD

### STANDARD

### SUPER-FLEX

LENGTH	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	1512PCCM	1512PCCMSF
25 ft. (7.6m)	1525PCCM	1525PCCMSF

LENGTH	2 PIECE CABLES	2 PIECE CABLES
12-1/2 ft. (3.8m)	1512PCNM	1512PCNSFM
25 ft. (7.6m)	1525PCNM	1525PCNSFM

LENGTH	WELD LEAD
12-1/2 ft. (3.8m)	1512CNM
25 ft. (7.6m)	1525CNM

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF

## FLU30, FLU50 GAS-COOLED

1 PIECE STANDARD POWER CABLE



1/8"-28 BSP

3/8"-24 RH

1 PIECE SUPER-FLEX POWER CABLE



1/8"-28 BSP

3/8"-24 RH

### STANDARD

### SUPER-FLEX

LENGTH	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	1512PCHFM	1512PCSFM
25 ft. (7.6m)	1525PCHFM	1525PCSFM

## CK210, TL210, CKM210 GAS-COOLED

1 PIECE STANDARD POWER CABLE



5/8"-18 RH

5/8"-18 RH

1 PIECE SUPER-FLEX POWER CABLE



5/8"-18 RH

5/8"-18 RH

2 PIECE STANDARD POWER CABLE



5/8"-18 RH

ARGON HOSE

5/8"-18 RH

WELD LEAD

2 PIECE SUPER-FLEX POWER CABLE



5/8"-18 RH

ARGON HOSE

5/8"-18 RH

WELD LEAD

### STANDARD

### SUPER-FLEX

LENGTH	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	412PCHF	412PCSF
25 ft. (7.6m)	425PCHF	425PCSF

LENGTH	2 PIECE CABLE	2 PIECE CABLE
12-1/2 ft. (3.8m)	412PCN	412PCNSF
25 ft. (7.6m)	425PCN	425PCNSF

LENGTH	WELD LEAD
12-1/2 ft. (3.8m)	412CN
25 ft. (7.6m)	425CN

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	312AH	312AHSF
25 ft. (7.6m)	325AH	325AHSF

## CKI80, CK200, CKT200, CKM200, MRI40 WATER-COOLED

STANDARD TRI-FLEX CABLES



POWER CABLE

ARGON HOSE

5/8"-18 RH

1/4"-28 RH

WATER HOSE

5/8"-18 LH

7/8"-14 LH

SUPER-FLEX POWER CABLE



1/4"-28 RH

7/8"-14 LH

ARGON HOSE

5/8"-18 RH

WATER HOSE

5/8"-18 LH

### STANDARD

### SUPER-FLEX

LENGTH	TRI-FLEX CABLES	3 PIECE ASSEMBLY
12-1/2 ft. (3.8m)	212TF	212SF
25 ft. (7.6m)	225TF	225SF

LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	212PC	212PCSF
25 ft. (7.6m)	225PC	225PCSF

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	212WH	212WHSF
25 ft. (7.6m)	225WH	225WHSF

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# MASTER TIG POWER CABLES / HOSES

## CK230, TL300 WATER-COOLED



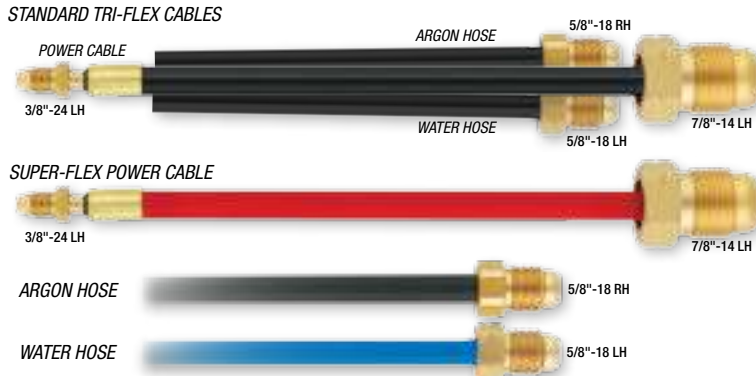
LENGTH	STANDARD	SUPER-FLEX
	TRI-FLEX CABLES	3 PIECE ASSEMBLY
12-1/2 ft. (3.8m)	2312TF	2312SF
25 ft. (7.6m)	2325TF	2325SF
LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	2312PC	312PCSF
25 ft. (7.6m)	2325PC	325PCSF
LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF
LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	212WH	212WHSF
25 ft. (7.6m)	225WH	225WHSF

## FL230, FL250 WATER-COOLED



LENGTH	STANDARD	SUPER-FLEX
	TRI-FLEX CABLES	3 PIECE ASSEMBLY
12-1/2 ft. (3.8m)	212TF	212SF
25 ft. (7.6m)	225TF	225SF
LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	212PC	212PCSF
25 ft. (7.6m)	225PC	225PCSF
LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	212AH	212AHSF
25 ft. (7.6m)	225AH	225AHSF
LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	212WH	212WHSF
25 ft. (7.6m)	225WH	225WHSF

## CK300 WATER-COOLED



LENGTH	STANDARD	SUPER-FLEX
	TRI-FLEX CABLES	3 PIECE ASSEMBLY
12-1/2 ft. (3.8m)	312TF	312SF
25 ft. (7.6m)	325TF	325SF
LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	312PC	312PCSF
25 ft. (7.6m)	325PC	325PCSF
LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	312AH	312AHSF
25 ft. (7.6m)	325AH	325AHSF
LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	312WH	312WHSF
25 ft. (7.6m)	325WH	325WHSF

## CK350, CK510 WATER-COOLED



LENGTH	STANDARD	SUPER-FLEX
	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	512PC	512PCSF
25 ft. (7.6m)	525PC	525PCSF
LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	312AH	312AHSF
25 ft. (7.6m)	325AH	325AHSF
LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	312WH	312WHSF
25 ft. (7.6m)	325WH	325WHSF



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# AIRCO POWER CABLES / HOSES

## CKA10 GAS-COOLED

1 PIECE STANDARD POWER CABLE



7/16"-20 Female

1 PIECE SUPER-FLEX POWER CABLE



7/16"-20 Female

### STANDARD

### SUPER-FLEX

LENGTH	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	<b>A2PC10</b>	<b>A2PC10SF</b>
25 ft. (7.6m)	<b>A5PC10</b>	<b>A5PC10SF</b>

## CKA16 GAS-COOLED

1 PIECE STANDARD POWER CABLE



5/8"-18 RH

1 PIECE SUPER-FLEX POWER CABLE



5/8"-18 RH

2 PIECE STANDARD POWER CABLE



5/8"-18 RH

2 PIECE SUPER-FLEX POWER CABLE



5/8"-18 RH

WELD LEAD

### STANDARD

### SUPER-FLEX

LENGTH	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	<b>412PCHF</b>	<b>412PCSF</b>
25 ft. (7.6m)	<b>425PCHF</b>	<b>425PCSF</b>

LENGTH	2 PIECE CABLES	2 PIECE CABLES
12-1/2 ft. (3.8m)	<b>412PCN</b>	<b>412PCNSF</b>
25 ft. (7.6m)	<b>425PCN</b>	<b>425PCNSF</b>

LENGTH	WELD LEAD
12-1/2 ft. (3.8m)	<b>412CN</b>
25 ft. (7.6m)	<b>425CN</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>312AH</b>	<b>312AHSF</b>
25 ft. (7.6m)	<b>325AH</b>	<b>325AHSF</b>

## CKA20 WATER-COOLED

STANDARD TRI-FLEX CABLES



3/8"-24 Female

5/8"-18 RH

3/8"-24 Female

STANDARD POWER CABLE



3/8"-24 Female

3/8"-24 Female

SUPER-FLEX POWER CABLE



3/8"-24 Female

3/8"-24 Female

ARGON HOSE

WATER HOSE

5/8"-18 RH

5/8"-18 LH

### STANDARD

### SUPER-FLEX

LENGTH	TRI-FLEX CABLES
12-1/2 ft. (3.8m)	<b>A2TF20</b>
25 ft. (7.6m)	<b>A5TF20</b>

LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	<b>A2PC20</b>	<b>A2PC20SF</b>
25 ft. (7.6m)	<b>A5PC20</b>	<b>A5PC20SF</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>212AH</b>	<b>212AHSF</b>
25 ft. (7.6m)	<b>225AH</b>	<b>225AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>212WH</b>	<b>212WHSF</b>
25 ft. (7.6m)	<b>225WH</b>	<b>225WHSF</b>

## CKA35 WATER-COOLED

STANDARD TRI-FLEX CABLES



7/16"-20 RH

5/8"-18 RH

5/8"-18 LH

STANDARD POWER CABLE



7/16"-20 RH

5/8"-18 LH

SUPER-FLEX POWER CABLE



7/16"-20 RH

5/8"-18 RH

ARGON HOSE

WATER HOSE

5/8"-18 RH

5/8"-18 LH

### STANDARD



### SUPER-FLEX

LENGTH	TRI-FLEX CABLES
12-1/2 ft. (3.8m)	<b>A2TF35</b>
25 ft. (7.6m)	<b>A5TF35</b>

LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	<b>A2PC35</b>	<b>A2PC35SF</b>
25 ft. (7.6m)	<b>A5PC35</b>	<b>A5PC35SF</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>312AH</b>	<b>312AHSF</b>
25 ft. (7.6m)	<b>325AH</b>	<b>325AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>312WH</b>	<b>312WHSF</b>
25 ft. (7.6m)	<b>325WH</b>	<b>325WHSF</b>

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# MACHINE TORCH POWER CABLES / HOSES

## MT100 GAS-COOLED

1 PIECE STANDARD POWER CABLE



3/8"-24 Female

1 PIECE SUPER-FLEX POWER CABLE



3/8"-24 Female

LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	<b>M112PC</b>	<b>M112PCSF</b>
25 ft. (7.6m)	<b>M125PC</b>	<b>M125PCSF</b>

## MT400 WATER-COOLED

1 PIECE STANDARD POWER CABLE



3/8"-24 Female

1 PIECE SUPER-FLEX POWER CABLE



3/8"-24 Female

ARGON HOSE



WATER HOSE



LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	<b>M512PC-1</b>	<b>M512PCSF-1</b>
25 ft. (7.6m)	<b>M525PC-1</b>	<b>M525PCSF-1</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>212AH</b>	<b>212AHSF</b>
25 ft. (7.6m)	<b>225AH</b>	<b>225AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>212WH</b>	<b>212WHSF</b>
25 ft. (7.6m)	<b>225WH</b>	<b>225WHSF</b>

## MT500 WATER-COOLED

1 PIECE STANDARD POWER CABLE



3/8"-24 Female

1 PIECE SUPER-FLEX POWER CABLE



3/8"-24 Female

ARGON HOSE



WATER HOSE



LENGTH	STANDARD	SUPER-FLEX
	1 PIECE CABLE	1 PIECE CABLE
12-1/2 ft. (3.8m)	<b>M512PC-1</b>	<b>M512PCSF-1</b>
25 ft. (7.6m)	<b>M525PC-1</b>	<b>M525PCSF-1</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>312AH</b>	<b>312AHSF</b>
25 ft. (7.6m)	<b>325AH</b>	<b>325AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>312WH</b>	<b>312WHSF</b>
25 ft. (7.6m)	<b>325WH</b>	<b>325WHSF</b>

## CKM230 WATER-COOLED

STANDARD TRI-FLEX CABLES  
POWER CABLE



3/8"-24 LH

SUPER-FLEX POWER CABLE



3/8"-24 LH

ARGON HOSE



WATER HOSE



LENGTH	STANDARD	SUPER-FLEX
	TRI-FLEX CABLES	3 PIECE SUPER-FLEX
12-1/2 ft. (3.8m)	<b>2312TF</b>	<b>2312SF</b>
25 ft. (7.6m)	<b>2325TF</b>	<b>2325SF</b>

LENGTH	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	<b>2312PC</b>	<b>2312PCSF</b>
25 ft. (7.6m)	<b>2325PC</b>	<b>2325PCSF</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>212AH</b>	<b>212AHSF</b>
25 ft. (7.6m)	<b>225AH</b>	<b>225AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>212WH</b>	<b>212WHSF</b>
25 ft. (7.6m)	<b>225WH</b>	<b>225WHSF</b>

## CKM350 WATER-COOLED

STANDARD POWER CABLE



3/8"-24 LH

SUPER-FLEX POWER CABLE



3/8"-24 LH

ARGON HOSE



WATER HOSE



LENGTH	STANDARD	SUPER-FLEX
	POWER CABLE	POWER CABLE
12-1/2 ft. (3.8m)	<b>512PC</b>	<b>512PCSF</b>
25 ft. (7.6m)	<b>525PC</b>	<b>525PCSF</b>

LENGTH	ARGON HOSE	ARGON HOSE
12-1/2 ft. (3.8m)	<b>312AH</b>	<b>312AHSF</b>
25 ft. (7.6m)	<b>325AH</b>	<b>325AHSF</b>

LENGTH	WATER HOSE	WATER HOSE
12-1/2 ft. (3.8m)	<b>312WH</b>	<b>312WHSF</b>
25 ft. (7.6m)	<b>325WH</b>	<b>325WHSF</b>



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# TORCH BODIES

STANDARD		VALVED		MASTER TIG		VALVED	
Part #	Style	Part #	Style	Part #	Style	Part #	Style
CK9 RG	Rigid	CK9V RG	Valved Rigid	CK80	Rigid	CK80V	Valved Rigid
CK9 FX	Flex	CK9V FX	Valved Flex	CK90	Flex	CK90V	Valved Flex
CK9P	Pencil	CK9PV	Valved Pencil	CK100	Rigid	CK100V	Valved Rigid
CK17 RG	Rigid	CK17V RG	Valved Rigid	CKPF130	Pencil Flex	CK130V RG	Valved Rigid
CK17 FX	Flex	CK17V FX	Valved Flex	CK130 FX	Flex	CK130V FX	Valved Flex
CK17P	Pencil	CK17V RG-T	Thread-On	CK130 RG	Rigid	CK150V RG	Valved Rigid
CK17 RG-T	Thread-On	CK18V	Valved Rigid	CK150 RG	Rigid	CK150V FX	Valved Flex
CK18	Rigid	CK18V FX	Valved Flex	CK150 FX	Flex	CKC150V	Contractor/ Stainless Steel Head/Valved
CK18 FX	Flex	TL18V	Valved Rigid	CKC150	Contractor/ Stainless Steel Head	CK180V	Valved Rigid
CK18P	Pencil	TL18V FX	Valved Flex	CK180	Rigid	CK200V	Valved Rigid
TL18	Rigid	CK20V	Valved Rigid	CK200	Rigid	CK200V FX	Valved Flex
TL18 FX	Flex	CK20V FX	Valved Flex	CK200 FX	Flex	CK210V RG	Valved Rigid
CK20	Rigid	CK24V RG	Valved Rigid	CKPF200	Pencil Flex	CK210V FX	Valved Flex
CK20 FX	Flex	CK24V FX	Valved Flex	CKT200-116	Rigid	TL210V RG	Valved Rigid
CK20P	Pencil	CK24WV	Water Valved	CKT200-332	Rigid	TL210V FX	Valved Flex
CK24 RG	Rigid	CK26V RG	Valved Rigid	CK210 RG	Rigid	CK230V	Valved Rigid
CK24 FX	Flex	CK26V FX	Valved Flex	CK210 FX	Flex	CK230V FX	Valved Flex
CK24W	Rigid	TL26V RG	Valved Rigid	TL210 RG	Rigid	CK300V	Valved Rigid
CK25	Pencil Flex	TL26V FX	Valved Flex	CK210 FX	Flex	CK300V FX	Valved Flex
CK26 RG	Rigid			TL210 FX	Flex	TL300V	Valved Rigid
CK26 FX	Flex			CK230	Rigid	TL300V FX	Valved Flex
CK26P	Pencil			CK230 FX	Flex	CK510V	Valved Rigid
TL26 RG	Rigid			CK300	Rigid		
TL26 FX	Flex			CK300 FX	Flex		
				TL300	Rigid		
				TL300 FX	Flex		
				CK510	Rigid		



MACHINE	
Part #	Style
CKM150	Machine
CKM200	Machine
CKM210	Machine
CKM230	Machine
CKM350	Machine
MT100	Machine
MT400	Machine
MT500	Machine

AIRCO	
Part #	Style
CKA10	Rigid
CKA16 RG	Rigid
CKA16 FX	Flex
CKA20	Rigid
CKA35	Rigid

AIRCO VALVED	
Part #	Style
CKA10V	Rigid
CKA16V RG	Rigid
CKA16V FX	Flex
CKA20V	Rigid
CKA35V	Rigid



FLEX-LOC® / VALVED	
Part #	Style
FLGB	Gas Body
FLGBV	Gas Body with Valve
FLWB	Water Body

FLEX-LOC® TORCH HEADS		
AMPS/GAS	AMPS/WATER	ORDER #
130 amps GAS-COOLED	230 amps WATER-COOLED	FL2L
150 amps GAS-COOLED	250 amps WATER-COOLED	FL3L

VALVES	
Part #	Torches used on:
VKS	CK9, CK20, CK25, CK100, CK130, CK200, CK230
VK	CK17, CK18, CK26, CK150, CKC150, CK210, CK300, CK510, TL18, TL26, TL210, TL300
100VK	CK24, CK24W, CK80, CK90, CK180

# TORCH HANDLES

STANDARD	
Part #	Style
HS	CK9, CK20, CK24, CK24W*, CK25, CK80*, CK90*, CK100, CK130, CKPF130, CK180*, CK200, CKPF200, CKT200, Flex-Locs*, MR70, MR140
HM	CK17, CK150, CKC150*, CKM150
H23	CKA10, CKA20, TL18, TL26, TL210, CK230, TL300
HL	CK18, CK26, CK210, CKM210, CK300, CK510
HA	CKA16, CKA35

SPECIALS	
Part #	Style
9HVR	CK9PV
24WHVR	CK24WV
80HV	CK80V
90HVF	CK90V
180HV	CK180V
FLHV2	Valved Flex-Locs
150HCVR	CKC150V
17HT	CK17 RG-T



\*For valved options see Specials table at right

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**SUPER CUPS**

**The right nozzle for the toughest TIG welding applications**

Super Cups withstand high-amperage and high-reflective heat applications while minimizing cracking problems related to thermal shock.

- Lasts longer in high-heat applications than alumina cups.
- Reduce downtime.
- Reduce replacement part costs.
- Reduce thermal conductivity by approximately 40%.



*Super Cups minimize cracking problems related to thermal shock. Save time and money while reducing thermal conductivity by 40%.*

*Available to fit all 2 and 3 series torches.*

**SERIES 2 SUPER CUPS  
TORCH MODELS 9, 20**

**SERIES 3 SUPER CUPS  
TORCH MODELS 17, 18, 26**



**STANDARD**

- 2S4 (13N08SC)
- 2S5 (13N09SC)
- 2S6 (13N10SC)
- 2S7 (13N11SC)
- 2S8 (13N12SC)
- 2S10 (13N13SC)

**GAS LENS**

- 2SG4 (53N58SC)
- 2SG5 (53N59SC)
- 2SG6 (53N60SC)
- 2SG7 (53N61SC)
- 2SG8 (53N61SSC)

**LARGE DIAMETER**

- 3SG6LD (57N75SC)
- 3SG8LD (57N74SC)
- 3SG10LD (53N88SC)
- 3SG12LD (53N87SC)



**STANDARD**

- 3S4 (10N50SC)
- 3S5 (10N49SC)
- 3S6 (10N48SC)
- 3S7 (10N47SC)
- 3S8 (10N46SC)
- 3S10 (10N45SC)
- 3S12 (10N44SC)

**GAS LENS**

- 3SG4 (54N18SC)
- 3SG5 (54N17SC)
- 3SG6 (54N16SC)
- 3SG7 (54N15SC)
- 3SG8 (54N14SC)

**LARGE DIAMETER**

- 3SG6LD (57N75SC)
- 3SG8LD (57N74SC)
- 3SG10LD (53N88SC)
- 3SG12LD (53N87SC)



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## 2 SERIES TORCH MODELS 9, 20

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP	
<b>STANDARD</b> 2S4 (13N08SC) 2S5 (13N09SC) 2S6 (13N10SC) 2S7 (13N11SC) 2S8 (13N12SC) 2S10 (13N13SC)	<b>STANDARD</b> 2CB20 (13N25) 2CB40 (13N26) 2CB116 (13N27) 2CB332 (13N28) 2CB418 (13N29)	<b>STANDARD</b> 2C20 (13N20) 2C40 (13N21) 2C116 (13N22) 2C332 (13N23) 2C418 (13N24)  <b>WEDGE</b> 2C040GS   2C332GS 2C116GS   2C418GS  <b>REVERSE</b> 6C20   6C332 6C40   6C418 6C116	<b>STANDARD</b> 2GHS	<p><b>TORCHES USED ON:</b>                      CK9                      CK20                      CK25                      CK100                      CK110                      CK130                      CK200                      CK230                      FL2L                      CKM230                      CWH230                      CWM230</p>		
<b>GAS LENS</b> 2SG4 (53N58SC) 2SG5 (53N59SC) 2SG6 (53N60SC) 2SG7 (53N61SC) 2SG8 (53N61SSC)	2GL20 (45V41) 2GL40 (45V42) 2GL116 (45V43) 2GL332 (45V44) 2GL418 (45V45)	<b>STANDARD</b> SEE ABOVE  <b>WEDGE</b> SEE ABOVE  <b>REVERSE</b> SEE ABOVE	<b>STANDARD</b> SEE ABOVE			
<b>LARGE DIAMETER</b> 3SG6LD (57N75SC) 3SG8LD (57N74SC) 3SG10LD (53N88SC) 3SG12LD (53N87SC)	<b>LARGE DIAMETER</b> 2GL0204LD (45V0204S) 2GL116LD (45V116S) 2GL332LD (45V64S) 2GL418LD (995795S)	<b>LARGE DIAMETER</b> 2C020LD (13N20L) 2C040LD (13N21L) 2C116LD (13N22L) 2C332LD (13N23L) 2C418LD (13N24L)	<b>LARGE DIAMETER</b> 2GHSLD			

## 3 SERIES TORCH MODELS 17, 18, 26

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP	
<b>STANDARD</b> 3S4 (10N50SC) 3S5 (10N49SC) 3S6 (10N48SC) 3S7 (10N47SC) 3S8 (10N46SC) 3S10 (10N45SC) 3S12 (10N44SC)	<b>STANDARD</b> 3CB20 (10N29) 3CB40 (10N30) 3CB116 (10N31) 3CB332 (10N32) 3CB418 (10N28) 3CB532 (406488)	<b>STANDARD</b> 3C20 (10N21) 3C40 (10N22) 3C116 (10N23) 3C332 (10N24) 3C418 (10N25) 3C532 (54N20)  <b>WEDGE</b> 3C040GS   3C418GS 3C116GS   3C532GS 3C332GS  <b>REVERSE</b> 7C20   7C332 7C40   7C418 7C116   7C532	<b>STANDARD</b> 300HS	<p><b>TORCHES USED ON:</b>                      CK17                      CK18                      CK26                      CK150                      CKK150                      CK210                      CK300                      CK510                      TL18                      TL26                      TL210                      TL300                      FL3L                      CKM350                      CWH330*                      CWH350*                      CWM350*</p>		
<b>GAS LENS</b> 3SG4 (54N18SC) 3SG5 (54N17SC) 3SG6 (54N16SC) 3SG7 (54N15SC) 3SG8 (54N14SC)	<b>GAS LENS</b> 3GL20 (45V29) 3GL40 (45V24) 3GL116 (45V25) 3GL332 (45V26) 3GL418 (45V27) 3GL532 (45V28)	<b>STANDARD</b> SEE ABOVE  <b>WEDGE</b> SEE ABOVE  <b>REVERSE</b> SEE ABOVE	<b>GAS LENS</b> 3GHS			
<b>LARGE DIAMETER</b> 3SG6LD (57N75SC) 3SG8LD (57N74SC) 3SG10LD (53N88SC) 3SG12LD (53N87SC)	<b>LARGE DIAMETER</b> 3GL116LD (45V116) 3GL332LD (45V64) 3GL418LD (995795) 3GL532LD (45V63)	<b>REVERSE</b> SEE ABOVE	<b>LARGE DIAMETER</b> 3GHSLD			

\*Heatshield not shown.  
(Contact factory for part number)

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## 2 SERIES TORCH MODELS 9, 20

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 2A4 (13N08)   2A7 (13N11) 2A5 (13N09)   2A8 (13N12) 2A6 (13N10)   2A10 (13N13)	<b>STANDARD</b> 2CB20 (13N25) 2CB40 (13N26) 2CB116 (13N27) 2CB332 (13N28) 2CB418 (13N29)	<b>STANDARD</b> 2C20 (13N20) 2C40 (13N21) 2C116 (13N22) 2C332 (13N23) 2C418 (13N24)	<b>STANDARD</b> 2GHS	<p><b>TORCHES USED ON:</b>                      CK100                      CK110                      CK130                      CK200                      CK230                      FL2L                      CKM230                      CWH230                      CWM230                      CK9                      CK20                      CK25</p> <p><b>LONG</b>                      200L (41V24)</p> <p><b>MEDIUM</b>                      200M (41V35)</p> <p><b>SHORT</b>                      200S (41V33)</p>	
<b>CERAMIC</b> 2C4 (13N14)   2C7 (13N17) 2C5 (13N15)   2C8 (13N18) 2C6 (13N16)   2C10 (13N19)		<b>WEDGE</b> 2C040GS   2C332GS 2C116GS   2C418GS			
<b>ALUMINA - LONG</b> 2A3L (A796F70)   2A5L (A796F72) 2A4L (A796F71)   2A6L (A796F73)		<b>REVERSE</b> 6C20   6C332 6C40   6C418 6C116			
<b>CERAMIC - LONG</b> 2C3L (796F70)   2C5L (796F72) 2C4L (796F71)   2C6L (796F73)					
<b>ALUMINA - GAS LENS</b> 2AG4 (53N58)   2AG7 (53N61) 2AG5 (53N59)   2AG8 (53N61S) 2AG6 (53N60)   2AG10	<b>GAS LENS</b> 2GL20 (45V41) 2GL40 (45V42) 2GL116 (45V43) 2GL332 (45V44) 2GL418 (45V45)	<b>STANDARD</b> SEE ABOVE  <b>WEDGE</b> SEE ABOVE  <b>REVERSE</b> SEE ABOVE	<b>STANDARD</b> SEE ABOVE		
<b>ALUMINA LONG - GAS LENS</b> 2AG5L (53N59L)   2AG7L (53N61L) 2AG6L (53N60L)					
<b>ALUMINA - LARGE DIAMETER</b> 3AG6LD (57N75)   3AG11LD(53N89) 3AG8LD (57N74)   3AG12LD(53N87) 3AG10LD (53N88)	<b>LARGE DIAMETER</b> 2GL0204LD (45V0204S) 2GL116LD (45V116S) 2GL332LD (45V64S) 2GL418LD (995795S)	<b>LARGE DIAMETER</b> 2C020LD (13N20L) 2C040LD (13N21L) 2C116LD (13N22L) 2C332LD (13N23L) 2C418LD (13N24L)	<b>LARGE DIAMETER</b> 2GHS LD		
<b>ALUMINA</b> 8A4 (A53N24)   8A6 (A53N27) 8A5 (A53N25)	<b>SHORT</b> 6CB20 6CB40 6CB116 6CB332 6CB418	<b>REVERSE</b> SEE ABOVE	<b>STANDARD</b> SEE ABOVE		
<b>CERAMIC</b> 8C4 (53N24)   8C6 (53N27) 8C5 (53N25)					
<b>CERAMIC - LONG</b> 8C4L (53N28)   8C6L (53N26)					





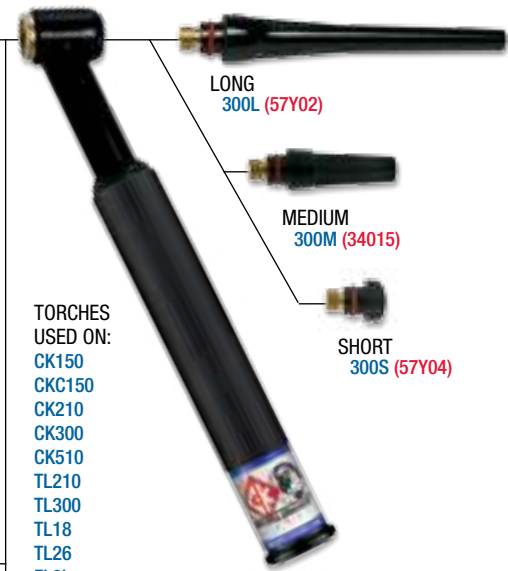









SIZE SUFFIX	INCH	MILLIMETERS
20	.020"	.5mm
40	.040"	1.0mm
116	1/16"	1.6mm
332	3/32"	2.4mm
418	1/8"	3.2mm
532	5/32"	4.0mm
316	3/16"	4.8mm
14	1/4"	6.4mm

**2C332**  
  
 Size Suffix

## 2 SERIES GAS SAVER PARTS TORCH MODELS 9, 20

CUP	ADAPTER	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 2A4GS   2A7GS 2A5GS   2A8GS 2A6GS	<b>WITH SCREEN</b> TAS040GS TAS116GS TAS332GS TAS418GS	<b>STANDARD</b> 2CBGS-1	<b>WEDGE</b> 2C040GS 2C116GS 2C332GS 2C418GS	<b>STANDARD</b> 2HSGS-1	<p><b>TORCHES USED ON:</b>                      CK100                      CK110                      CK130                      CK200                      CK230                      FL2L                      CKM230                      CWH230                      CWM230                      CK9                      CK20                      CK25</p> <p><b>LONG</b>                      200L (41V24)</p> <p><b>MEDIUM</b>                      200M (41V35)</p> <p><b>SHORT</b>                      200S (41V33)</p>	
<b>CLEAR</b> 2P8GS	<b>WITHOUT SCREEN</b> TA040GS   TA418GS TA116GS TA332GS					
<b>ALUMINA</b> 2A18GS LD	<b>LARGE DIAMETER WITH SCREEN</b> TAS040GS LD TAS116GS LD TAS332GS LD TAS418GS LD	<b>LARGE DIAMETER</b> 2CBGS LD	<b>WEDGE</b> SEE ABOVE	<b>LARGE DIAMETER</b> 2HSGS LD		
<b>CLEAR</b> 2P18GS LD						

# 3 SERIES TORCH MODELS 17, 18, 26

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP	
<b>ALUMINA</b> 3A4 (10N50) 3A5 (10N49) 3A6 (10N48) 3A7 (10N47)						
3A8 (10N46) 3A10 (10N45) 3A12 (10N44)	<b>STANDARD</b> 3CB20 (10N29) 3CB40 (10N30) 3CB116 (10N31) 3CB332 (10N32) 3CB418 (10N28) 3CB532 (406488)	<b>STANDARD</b> 3C20 (10N21) 3C40 (10N22) 3C116 (10N23) 3C332 (10N24) 3C418 (10N25) 3C532 (54N20)	<b>STANDARD</b> 300HS	<b>TORCHES USED ON:</b> CK150 CKC150 CK210 CK300 CK510 TL210 TL300 TL18 TL26 FL3L CK17 CK18 CK26 CKM350 CWHHL300* CWH350* CWM350*	<b>LONG</b> 300L (57Y02)	
<b>ALUMINA - LONG</b> 3A5L (10N49L) 3A6L (10N48L)	3A7L (10N47L)	<b>WEDGE</b> 3C040GS 3C116GS 3C332GS	<b>WEDGE</b> 3C418GS 3C532GS		<b>MEDIUM</b> 300M (34015)	
<b>CERAMIC</b> 3C4 (105Z43) 3C5 (105Z42) 3C6 (105Z44) 3C7 (105Z45)	3C8 (08N78) 3C10 (08N79) 3C12 (08N80)	<b>REVERSE</b> 7C20 7C40 7C116	<b>REVERSE</b> 7C332 7C418 7C532		<b>SHORT</b> 300S (57Y04)	
<b>CERAMIC - LONG</b> 3C4L (12N03) 3C5L (105Z60)	3C6L (12N02) 3C7L (105Z61)					
<b>ALUMINA - GAS LENS</b> 3AG4 (54N18) 3AG5 (54N17) 3AG6 (54N16)						
3AG7 (54N15) 3AG8 (54N14) 3AG11 (54N19) 3AG12	<b>GAS LENS</b> 3GL20 (45V29) 3GL40 (45V24) 3GL116 (45V25) 3GL332 (45V26) 3GL418 (45V27) 3GL532 (45V28)	<b>STANDARD</b> SEE ABOVE	<b>STANDARD</b> SEE ABOVE		<b>GAS LENS</b> 3GHS	
<b>ALUMINA LONG - GAS LENS</b> OVERALL LENGTH 3" (7.6CM) 3AG5L (54N17L) 3AG6L (54N16L) 3AG7L (54N15L) 3AG8L (54N14L)		<b>WEDGE</b> SEE ABOVE	<b>WEDGE</b> SEE ABOVE			
<b>CERAMIC - GAS LENS</b> 3CG4 (54N35) 3CG5 (54N34) 3CG6 (54N33) 3CG7 (54N32) 3CG8 (54N31)	3CG11 (54N36) 3CG14	<b>REVERSE</b> SEE ABOVE	<b>REVERSE</b> SEE ABOVE			
<b>ALUMINA - LARGE DIAMETER</b> 3AG6LD (57N75) 3AG8LD (57N74) 3AG10LD (53N88) 3AG11LD (53N89) 3AG12LD (53N87)						
<b>ALUMINA LONG - LARGE DIAMETER</b> OVERALL LENGTH 2.75" (6.9CM) 3AG6LDL (57N75L) 3AG8LDL (57N74L) 3AG10LDL (53N88L) 3AG12LDL (53N87L)	<b>LARGE DIAMETER</b> 3GL116LD (45V116) 3GL332LD (45V64) 3GL418LD (995795) 3GL532LD (45V63)	<b>STANDARD</b> SEE ABOVE	<b>STANDARD</b> SEE ABOVE		<b>LARGE DIAMETER</b> 3GHSLD	
<b>ALUMINA EXTRA LONG - LARGE DIAMETER</b> OVERALL LENGTH 3.25" (8.3CM) 3AG6LDXL (57N75XL) 3AG8LDXL (57N74XL) 3AG10LDXL (53N88XL) 3AG12LDXL (53N87XL)		<b>WEDGE</b> SEE ABOVE	<b>WEDGE</b> SEE ABOVE			

SIZE SUFFIX	INCH	MILLIMETERS
20	.020"	.5mm
40	.040"	1.0mm
116	1/16"	1.6mm
332	3/32"	2.4mm
418	1/8"	3.2mm
532	5/32"	4.0mm
316	3/16"	4.8mm
14	1/4"	6.4mm

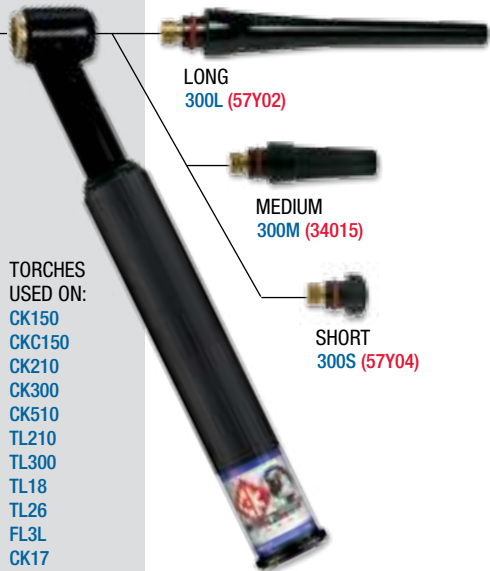
**2C332**  
  
 Size Suffix

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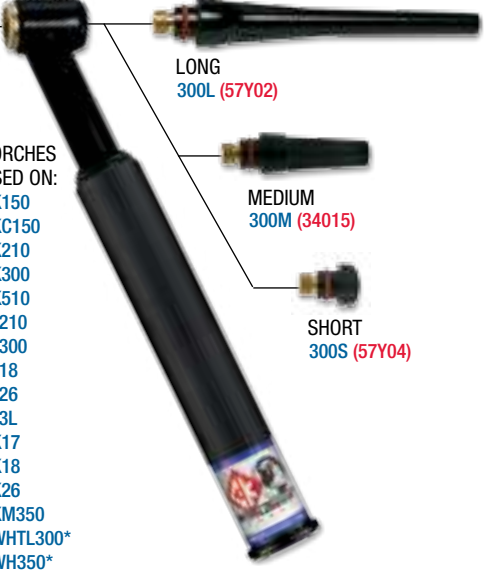




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### 3 SERIES GAS SAVER PARTS TORCH MODELS 17, 18, 26

CUP	ADAPTER	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 3A4GS 3A5GS 3A6GS 3A7GS 3A8GS	<b>WITH SCREEN</b> TAS040GS TAS116GS TAS332GS TAS418GS TAS532GS	<b>STANDARD</b> 3CBGS	<b>WEDGE</b> 3C040GS 3C116GS 3C332GS 3C418GS 3C532GS	<b>STANDARD</b> 3HSGS	 <p>TORCHES USED ON:</p> CK150 CKC150 CK210 CK300 CK510 TL210 TL300 TL18 TL26 FL3L CK17 CK18 CK26 MT100* MT400* MT500 CKM350	<b>LONG</b> 300L (57Y02)
<b>CLEAR</b> 3P8GS	<b>WITHOUT SCREEN</b> TA040GS   TA418GS TA116GS   TA532GS TA332GS					<b>MEDIUM</b> 300M (34015)
<b>ALUMINA</b> 2A4GS   2A7GS 2A5GS   2A8GS 2A6GS	<b>WITH SCREEN</b> SEE ABOVE	<b>SHORT</b> 4CBGS	<b>SHORT WEDGE</b> 4C040GS 4C116GS 4C332GS 4C418GS 4C532GS	<b>SHORT</b> 3HSGS		<b>SHORT</b> 300S (57Y04)
<b>CLEAR</b> 2P8GS	<b>WITHOUT SCREEN</b> SEE ABOVE					
<b>ALUMINA - GAS LENS</b> 2A12GSLD	<b>LARGE DIAMETER WITH SCREEN</b> TAS040GSLD TAS116GSLD TAS332GSLD TAS418GSLD TAS532GSLD	<b>LARGE DIAMETER</b> 4CBGSLD	<b>SHORT WEDGE</b> 4C040GS 4C116GS 4C332GS 4C418GS 4C532GS	<b>LARGE DIAMETER</b> 4HSGSLD		
<b>ALUMINA</b> 4A18GSLD						
<b>CLEAR</b> 4P18GSLD						

### 4 SERIES STUBBY TORCH MODELS 17, 18, 26

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 2A4 (13N08)   2A7 (13N11) 2A5 (13N09)   2A8 (13N12) 2A6 (13N10)   2A10 (13N13)	<b>SHORT</b> 4CB20   4CB332 4CB40   4CB418 4CB116   4CB532	<b>SHORT</b> 4C20 (10N21S) 4C40 (10N22S) 4C116 (10N23S) 4C332 (10N24S) 4C418 (10N25S) 4C532 <b>SHORT WEDGE</b> 4C040GS   4C418GS 4C116GS   4C532GS 4C332GS	<b>STANDARD</b> 300HS	 <p>TORCHES USED ON:</p> CK150 CKC150 CK210 CK300 CK510 TL210 TL300 TL18 TL26 FL3L CK17 CK18 CK26 CKM350 CWH350* CWM350*	<b>LONG</b> 300L (57Y02)
<b>CERAMIC</b> 2C4 (13N14)   2C7 (13N17) 2C5 (13N15)   2C8 (13N18) 2C6 (13N16)   2C10 (13N19)					<b>MEDIUM</b> 300M (34015)
<b>CERAMIC - LONG</b> 2C3L (796F70)   2C5L (796F72) 2C4L (796F71)   2C6L (796F73)		<b>REVERSE</b> SEE PAGE 55			<b>SHORT</b> 300S (57Y04)
<b>ALUMINA - GAS LENS</b> 2AG4 (53N58)   2AG8 (53N61S) 2AG5 (53N59)   2AG10 2AG6 (53N60) 2AG7 (53N61)	<b>SHORT - GAS LENS</b> 4GL20   4GL332 4GL40   4GL418 4GL116   4GL532	<b>SHORT</b> SEE ABOVE <b>SHORT WEDGE</b> SEE ABOVE <b>REVERSE</b> SEE PAGE 55	<b>SHORT - GAS LENS</b> 4GHS		
<b>ALUMINA LONG - GAS LENS</b> 2AG5L (53N59L)   2AG7L (53N61L) 2AG6L (53N60L)					

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## 51 SERIES TORCH MODELS CK510

CUP	COLLET BODY	NOSE BLOCK	COLLET	HEATSHIELD	TORCH	BACKCAP
<b>ALUMINA</b> 3AG6LD (57N75) 3AG8LD (57N74) 3AG10LD (53N88) 3AG11LD (53N89) 3AG12LD (53N87)	<b>STANDARD</b> 51GL116 51GL332 51GL418 51GL532 51GL316 51GL1400	<b>STANDARD</b> ANT35 (2310-1938)	<b>STANDARD</b> A116C35 (2304-0088) A332C35 (2304-0089) A418C35 (2304-0090) A532C35 (2304-0091) A316C35 (2304-0146)	<b>STANDARD</b> 510HS	<p>TORCHES USED ON: CK510</p>	<b>LONG</b> 300L (57Y02)
						<b>COLLET CAP</b> 514CCL FOR 1/4" (6.4MM)

- Nose block and collet are not needed when using 1/4" (6.4mm) tungsten.
- 3 Series head accessories can be used when welding at 400 amps or less

## 8 SERIES TORCH MODELS 24, 24W

CUP	COLLET BODY	COLLET	HEATSHIELD	TORCH	
<b>CERAMIC</b> 8C4 (53N24) 8C5 (53N25)	8C6 (53N27)	<b>STANDARD</b> 8CB20 (53N17) 8CB40 (53N18) 8CB116 (53N19) 8CB332 (24CB332)	<b>STANDARD</b> 8C20 (53N15) 8C40 (53N16) 8C116 (53N14) 8C332 (24C332)	<b>STANDARD</b> 80THS	<p>TORCHES USED ON: CK80 CK90 CK180 CWH180 CK24 CK24W</p>
<b>ALUMINA</b> 8A1 (A53N23) 8A4 (A53N24)	8A5 (A53N25) 8A6 (A53N27)				
<b>CERAMIC - LONG</b> 8C4L (53N28)	8C6L (53N26)				
<b>ALUMINA - GAS LENS</b> 2AG4 (53N58) 2AG5 (53N59)	2AG6 (53N60) 2AG7 (53N61)	<b>GAS LENS</b> 2GL20 (45V41) 2GL40 (45V42) 2GL116 (45V43) 2GL332 (45V44)	<b>GAS LENS</b> 8CG20 (53N62) 8CG40 (53N63) 8CG116 (53N64) 8CG332 (24GLC332)	<b>GAS LENS</b> 8GHS	
<b>ALUMINA LONG - GAS LENS</b> 2AG5L (53N59L) 2AG6L (53N60L)	2AG7L (53N61L)				
<b>CERAMIC</b> 8C4 (53N24) 8C5 (53N25)	8C6 (53N27)	<b>GAS LENS</b> 8GL332	<b>GAS LENS</b> 8C332 (24C332)	<b>GAS LENS</b> 8GHS	
<b>ALUMINA</b> 8A1 (A53N23) 8A4 (A53N24)	8A5 (A53N25) 8A6 (A53N27)				
<b>CERAMIC - LONG</b> 8C4L (53N28)	8C6L (53N26)				

**TUNGSTEN ELECTRODE CONVERSION CHART**

SIZE SUFFIX	INCH	MILLIMETERS
20	.020"	.5mm
40	.040"	1.0mm
116	1/16"	1.6mm
332	3/32"	2.4mm
418	1/8"	3.2mm
532	5/32"	4.0mm
316	3/16"	4.8mm
14	1/4"	6.4mm

**2C332**  
Size Suffix

## 9 SERIES TURBINE TORCH CKT200

CLEAR CUP				BACK CAP	O-RING	O-RING	CLEAR CUP
SIZE	ORIFICE	LENGTH	ORDER#				
4	1/4 in. (6.35mm)	.700 in. (17.78mm)	9G2				

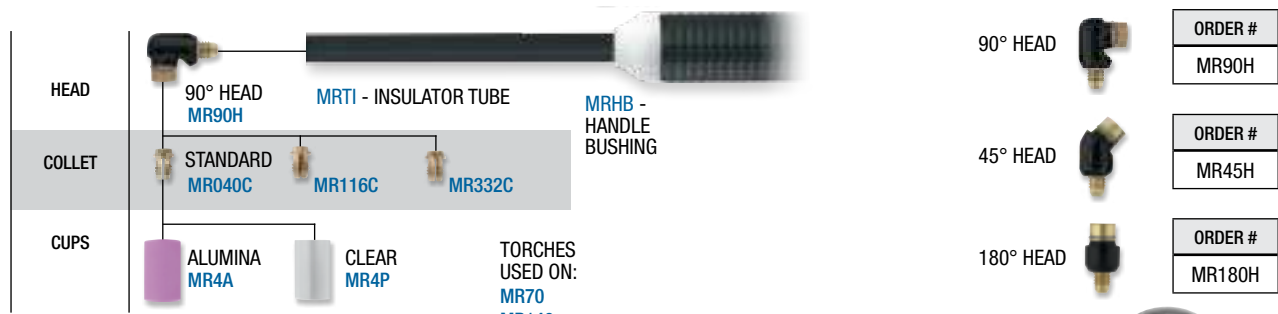
FOR 1/16" (1.6 mm) TUNGSTEN

ORDER # CC116

FOR 3/32" (2.4mm) TUNGSTEN

ORDER # CC332

## MICRO TORCH REPLACEMENT PARTS MR70, MRI40



MICRO TORCH ACCESSORY KIT  
ORDER #  
AK-MR



TUNGSTEN STICK OUT GAUGE AND WRENCH

ORDER #  
TG1-24

## STANDARD MACHINE SERIES

CUP	COLLET BODY	HEATSHIELD	TORCH W/ACM	COLLET	BACKCAP	
<b>ALUMINA</b> 3A4 (10N50) 3A5 (10N49) 3A6 (10N48) 3A7 (10N47)	3A8 (10N46) 3A10 (10N45) 3A12 (10N44)	<b>STANDARD</b> 3CB20 (10N29) 3CB40 (10N30) 3CB116 (10N31) 3CB332 (10N32) 3CB418 (10N28) 3CB532 (406488)	TORCHES USED ON: MT100 MT400 MT500* CWMT400* CWMT500*	<b>SHORT</b> 4C20 (10N21S) 4C40 (10N22S) 4C116 (10N23S) 4C332 (10N24S) 4C418 (10N25S) 4C532	<b>LONG</b> AL35 (2304-0145)	
<b>CERAMIC</b> 3C4 (10S243) 3C5 (10S242) 3C6 (10S244) 3C7 (10S245)	3C8 (08N78) 3C10 (08N79) 3C12 (08N80)	<b>STANDARD</b> M-HS		*Contact factory for heatshield	<b>MEDIUM</b> AM35 (2304-0144)	<b>SHORT</b> AS35 (2304-0143)
<b>ALUMINA - GAS LENS</b> 3AG4 (54N18) 3AG5 (54N17) 3AG6 (54N16)	3AG7 (54N15) 3AG8 (54N14) 3AG11 (54N19) 3AG12	<b>GAS LENS</b> M3G-HS			<b>ALUMINA - LARGE DIAMETER</b> 3AG6LD (57N75) 3AG8LD (57N74) 3AG10LD (53N88) 3AG11LD (53N89) 3AG12LD (53N87)	<b>LARGE DIAMETER</b> 3GL116LD (45V116) 3GL332LD (45V64) 3GL418LD (995795) 3GL532LD (45V63)



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## AIRCO A2 SERIES MODELS 10, 20

CUP	NOSE BLOCK	COLLET	HEATSHIELD	TORCH	BACKCAP
<p><b>ALUMINA</b></p> <p>A4A2 (2304-0069)                      A5A2 (2304-0070)                      A6A2 (2304-0073)                      A7A2 (2304-0074)</p> <p><b>CERAMIC</b></p> <p>A4C2 (2304-0002C)                      A5C2 (2304-0004C)                      A6C2 (2304-0049C)</p>	<p>NOSE TRANSFER BLOCK</p> <p>ANT20 (2310-1810)</p>	<p>COLLET</p> <p>A20C20 (2304-0138)                      A40C20 (2304-0137)                      A116C20 (2304-0136)                      A332C20 (2304-0135)                      A418C20 (2304-0068)</p>	<p>HEATSHIELD</p> <p>AHS20</p>	<p>TORCHES USED ON:</p> <p>CKA10                      CKA20</p>	<p>LONG</p> <p>AL20 (2304-0010)</p> <p>MEDIUM</p> <p>AM20 (2304-0009)</p> <p>SHORT</p> <p>AS20 (2304-0008)</p>

## AIRCO A3 SERIES MODELS 16, 35

CUP	NOSE BLOCK	COLLET	HEATSHIELD	TORCH	BACKCAP
<p><b>ALUMINA</b></p> <p>A4A3 (2304-0079)                      A5A3 (2304-0080)                      A6A3 (2304-0081)                      A8A3 (2304-0082)                      A10A3 (2304-0083)</p> <p><b>CERAMIC</b></p> <p>A4C3 (2304-0079C)                      A5C3 (2304-0080C)                      A6C3 (2304-0081C)                      A8C3 (2304-0082C)                      A10C3 (2304-0083C)</p>	<p>NOSE TRANSFER BLOCK</p> <p>ANT35 (2310-1938)</p>	<p>COLLET</p> <p>A20C35 (2304-0086)                      A40C35 (2304-0087)                      A116C35 (2304-0088)                      A332C35 (2304-0089)                      A418C35 (2304-0090)                      A532C35 (2304-0091)                      A316C35 (2304-0146)</p>	<p>HEATSHIELD</p> <p>AHS35 (2310-2014)</p>	<p>TORCHES USED ON:</p> <p>CKA16                      CKA35</p>	<p>LONG</p> <p>AL35 (2304-0145)</p> <p>MEDIUM</p> <p>AM35 (2304-0144)</p> <p>SHORT</p> <p>AS35 (2304-0143)</p>

## ACCESSORY KITS

Pre-packaged kits containing common consumables for our most popular torches.



### 2 SERIES TIG TORCHES

CK9, CK100, FL130		ORDER # <b>AK-1</b>
ITEM	QTY	PART #
Long Backcap	1	<b>200L (41V24)</b>
.040" (1.0mm) Collet	1	<b>2C40 (13N21)</b>
1/16" (1.6mm) Collet	1	<b>2C116 (13N22)</b>
.040" (1.0mm) Collet Body	1	<b>2CB40 (13N26)</b>
1/16" (1.6mm) Collet Body	1	<b>2CB116 (13N27)</b>
#4 (1/4" 6.4mm) Alumina Cup	1	<b>2A4 (13N08)</b>
#5 (5/16" 8.0mm) Alumina Cup	1	<b>2A5 (13N09)</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>2A6 (13N10)</b>
.040" (1.0mm) x 7" 2% Ceriated Tungsten	1	<b>T0407GC2</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>



### 3 SERIES TIG TORCHES

CK210, TL210, FL250, CK300, TL300, CK18, TL18, CK26, TL26		ORDER # <b>AK-3</b>
ITEM	QTY	PART #
Long Backcap	1	<b>300L (57Y02)</b>
Short Backcap	1	<b>300S (57Y04)</b>
1/16" (1.6mm) Collet	1	<b>3C116 (10N23)</b>
3/32" (2.4mm) Collet	1	<b>3C332 (10N24)</b>
1/8" (3.2mm) Collet	1	<b>3C418 (10N25)</b>
1/16" (1.6mm) Collet Body	1	<b>3CB116 (10N31)</b>
3/32" (2.4mm) Collet Body	1	<b>3CB332 (10N32)</b>
1/8" (3.2mm) Collet Body	1	<b>3CB418 (10N28)</b>
#5 (5/16" 8.0mm) Alumina Cup	1	<b>3A5 (10N49)</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>3A6 (10N48)</b>
#8 (1/2" 12.8mm) Alumina Cup	1	<b>3A8 (10N46)</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>
3/32" (2.4mm) x 7" 2% Ceriated Tungsten	1	<b>T3327GC2</b>
1/8" (3.2mm) x 7" 2% Ceriated Tungsten	1	<b>T187GC2</b>



### 3 SERIES TIG TORCHES

CK17, CK150, CKC150, FL150		ORDER # <b>AK-2</b>
ITEM	QTY	PART #
Short Backcap	1	<b>300S (57Y04)</b>
.040" (1.0mm) Collet	1	<b>3C40 (10N22)</b>
1/16" (1.6mm) Collet	1	<b>3C116 (10N23)</b>
3/32" (2.4mm) Collet	1	<b>3C332 (10N24)</b>
.040" (1.0mm) Collet Body	1	<b>3CB40 (10N30)</b>
1/16" (1.6mm) Collet Body	1	<b>3CB116 (10N31)</b>
3/32" (2.4mm) Collet Body	1	<b>3CB332 (10N32)</b>
#4 (1/4" 6.4mm) Alumina Cup	1	<b>3A4 (10N50)</b>
#5 (5/16" 8.0mm) Alumina Cup	1	<b>3A5 (10N49)</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>3A6 (10N48)</b>
.040" (1.0mm) x 7" 2% Ceriated Tungsten	1	<b>T0407GC2</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>
3/32" (2.4mm) x 7" 2% Ceriated Tungsten	1	<b>T3327GC2</b>



### 3 SERIES TIG TORCHES GAS SAVER

CK150, FL150, CK210, TL210, FL250, CK300, TL300, CK18, TL18, CK17, CK26, TL26		ORDER # <b>AK-3GS</b>
ITEM	QTY	PART #
Short Backcap	1	<b>300S (57Y04)</b>
1/16" (1.6mm) Collet	1	<b>3C116GS</b>
3/32" (2.4mm) Collet	1	<b>3C332GS</b>
1/8" (3.2mm) Collet	1	<b>3C418GS</b>
1/16" (1.6mm) Tungsten Adapter	1	<b>TAS116GS</b>
3/32" (2.4mm) Tungsten Adapter	1	<b>TAS332GS</b>
1/8" (3.2mm) Tungsten Adapter	1	<b>TAS418GS</b>
Collet Body	1	<b>3CBGS</b>
Heatshield	1	<b>3HSGS</b>
#5 (5/16" 8.0mm) Alumina Cup	1	<b>3A5GS</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>3A6GS</b>
#8 (1/2" 12.8mm) Pyrex Cup	1	<b>3P8GS</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>
3/32" (2.4mm) x 7" 2% Ceriated Tungsten	1	<b>T3327GC2</b>
1/8" (3.2mm) x 7" 2% Ceriated Tungsten	1	<b>T187GC2</b>



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## ACCESSORY KITS

Pre-packaged kits containing common consumables for our most popular torches.



### 2 SERIES TIG TORCHES

CK20, CK200, CK230, FL230		ORDER # <b>AK-4</b>
ITEM	QTY	PART #
Long Backcap	1	<b>200L (41V24)</b>
1/16" (1.6mm) Collet	1	<b>2C116 (13N22)</b>
3/32" (2.4mm) Collet	1	<b>2C332 (13N23)</b>
1/8" (3.2mm) Collet	1	<b>2C418 (13N24)</b>
1/16" (1.6mm) Collet Body	1	<b>2CB116 (13N27)</b>
3/32" (2.4mm) Collet Body	1	<b>2CB332 (13N28)</b>
1/8" (3.2mm) Collet Body	1	<b>2CB418 (13N29)</b>
#5 (5/16" 8.0mm) Alumina Cup	1	<b>2A5 (13N09)</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>2A6 (13N10)</b>
#8 (1/2" 12.8mm) Alumina Cup	1	<b>2A8 (13N12)</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>
3/32" (2.4mm) x 7" 2% Ceriated Tungsten	1	<b>T3327GC2</b>
1/8" (3.2mm) x 7" 2% Ceriated Tungsten	1	<b>T187GC2</b>



### 8 SERIES TIG TORCHES

CK24, CK24W, CK80, CK90, CK180		ORDER # <b>AK-5</b>
ITEM	QTY	PART #
.040" (1.0mm) Collet	1	<b>8C40 (53N16)</b>
1/16" (1.6mm) Collet	1	<b>8C116 (53N14)</b>
.040" (1.0mm) Collet Body	1	<b>8CB40 (53N18)</b>
1/16" (1.6mm) Collet Body	1	<b>8CB116 (53N19)</b>
#4 (1/4" 6.4mm) Ceramic Cup	1	<b>8C4 (53N24)</b>
#5 (5/16" 8.0mm) Ceramic Cup	1	<b>8C5 (53N25)</b>
#6 (3/8" 9.6mm) Ceramic Cup	1	<b>8C6 (53N27)</b>
.040" (1.0mm) x 7" 2% Ceriated Tungsten	1	<b>T0407GC2</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>



### 2 SERIES TIG TORCHES GAS SAVER

CK9, CK20, CK100, FL130, CK200, CK230, FL230		ORDER # <b>AK-4GS</b>
ITEM	QTY	PART #
Long Backcap	1	<b>200L (41V24)</b>
1/16" (1.6mm) Collet	1	<b>2C116GS</b>
3/32" (2.4mm) Collet	1	<b>2C332GS</b>
1/8" (2.4mm) Collet	1	<b>2C418GS</b>
1/16" (1.6mm) Tungsten Adapter	1	<b>TAS116GS</b>
3/32" (2.4mm) Tungsten Adapter	1	<b>TAS332GS</b>
1/8" (3.2mm) Tungsten Adapter	1	<b>TAS418GS</b>
Collet Body	1	<b>2CBGS-1</b>
Heatshield	1	<b>2HSGS-1</b>
#4 (1/4" 6.4mm) Alumina Cup	1	<b>2A4GS</b>
#6 (3/8" 9.6mm) Alumina Cup	1	<b>2A6GS</b>
#8 (1/2" 12.8mm) Pryex Cup	1	<b>2P8GS</b>
1/16" (1.6mm) x 7" 2% Ceriated Tungsten	1	<b>T1167GC2</b>
3/32" (2.4mm) x 7" 2% Ceriated Tungsten	1	<b>T3327GC2</b>
1/8" (3.2mm) x 7" 2% Ceriated Tungsten	1	<b>T187GC2</b>

Pre-packaged kits containing common consumables for our most popular torches.

## TUNGSTEN ELECTRODES

### 2% THORIATED (RED) EWTh-2/WT20

*Principal Oxide: 1.7–2.2% Thorium Oxide*

RADIOACTIVE. Best for use in Direct Current (D/C) applications using transformer based constant current power sources. Best for use on non corroding steels, titanium alloys, nickel alloys, copper alloys. Good D/C arc starts and stability, medium erosion rate, medium amperage range, medium tendency to spit.

### 0.8% ZIRCONIATED (WHITE) EWZr-8/WZ8

*Principal Oxide: 0.7–0.9% Zirconium Oxide*

NON-RADIOACTIVE. Best for use in Alternating Current (A/C) for aluminum alloys and magnesium alloys using inverter or transformer based constant current power sources. Balls well, handles higher amperage than pure tungsten with less pitting, better arc starts and arc stability than pure tungsten.

### 1.5% LANTHANATED (GOLD) EWLa-1.5/WL15

*Principal Oxide: 1.3–1.7% Lanthanum Oxide*

NON-RADIOACTIVE. Best for use in Direct Current (D/C) as an alternative to 2% Thoriated using inverter or transformer based constant current power sources. Best for non corroding steels, titanium alloys, nickel alloys, copper alloys. Best D/C arc starts and stability, low erosion rate, wide amperage range, no spitting.

### 2% CERIATED (GREY) (FORMERLY ORANGE) EWCe-2/WC20

*Principal Oxide: 1.8–2.2% Cerium Oxide*

NON-RADIOACTIVE. Best for use in Alternating Current (A/C) or Direct Current (D/C) applications using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Good ignition and re-ignition properties, long service life, excellent arc stability. Low erosion rate, best at low amperage range, no spitting, good D/C arc starts and stability.

### PURE (GREEN) EWP/WP

*Principal Oxide: None*

NON-RADIOACTIVE. Good for use in Alternating Current (A/C) for aluminum alloys and magnesium alloys in low to medium amperage applications using transformer based constant current power sources only. Balls easy, tends to spit at higher amperages. Used for non-critical welds only.

### 2% LANTHANATED (BLUE) EWLa-2/WL20

*Principal Oxide: 1.8–2.2% Lanthanum Oxide*

NON-RADIOACTIVE. Best general purpose electrode for both Alternating Current (A/C) or Direct Current (D/C) using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Good arc starts and stability, medium to high amperage range, low erosion rate.

### LaYZr™ (CHARTREUSE) EWG

*Principal Oxides: 1.5% Lanthanum, 0.8% Yttrium Oxides, 0.8% Zirconium*

NON-RADIOACTIVE. Best for automated or robotic applications in Alternating Current (A/C) or Direct Current (D/C) due to low voltage tolerance (changes in tip to work piece distance) using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Very stable tip geometry, runs cooler than 2% Thoriated with longer life, low to medium amperage range. Very best low amperage starts.



## TUNGSTEN STICK-OUT GAUGE



### CONSISTENT STICK-OUT ADDS QUALITY TO EVERY WELD

- Consistent stick-out adds quality to every weld
- Great for orbital welders, instructors, weld inspectors
- Insures correct stick-out for gas nozzle being used
- Eliminates tungsten contamination by keeping the tungsten in the gas stream
- Correct stick-out insures undue stress on the ceramic gas nozzle



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# TUNGSTEN ELECTRODES

ISO 6848 COLOR CHART	SIZE		PART #	
	INCHES	MILLIMETERS	10 PIECE	3 PIECE P.O.P.
<b>2% Thoriated</b> <b>Red</b>	.020 x 7"	0.5 x 175mm	<b>T0207GT2</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GT2</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GT2</b>	<b>T1167GT2-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GT2</b>	<b>T3327GT2-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GT2</b>	<b>T5327GT2-3</b>
<b>.8% Zirconiated</b> <b>White</b>	.020 x 7"	0.5 x 175mm	<b>T0207GZ</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GZ</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GZ</b>	<b>T1167GZ-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GZ</b>	<b>T3327GZ-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GZ</b>	<b>T5327GZ-3</b>
<b>1.5% Lanthanated</b> <b>Gold</b>	.020 x 7"	0.5 x 175mm	<b>T0207GL</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GL</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GL</b>	<b>T1167GL-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GL</b>	<b>T3327GL-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GL</b>	<b>T5327GL-3</b>
<b>2% Ceriated</b> <b>Gray</b>	.020 x 7"	0.5 x 175mm	<b>T0207GC2</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GC2</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GC2</b>	<b>T1167GC2-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GC2</b>	<b>T3327GC2-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GC2</b>	<b>T5327GC2-3</b>
<b>Pure</b> <b>Green</b>	.020 x 7"	0.5 x 175mm	<b>T0207G</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407G</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167G</b>	<b>T1167G-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327G</b>	<b>T3327G-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327G</b>	<b>T5327G-3</b>
<b>2% Lanthanated</b> <b>Blue</b>	.020 x 7"	0.5 x 175mm	<b>T0207GL2</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GL2</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GL2</b>	<b>T1167GL2-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GL2</b>	<b>T3327GL2-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GL2</b>	<b>T5327GL2-3</b>
<b>LaYZr™</b> <b>Chartreuse</b>	.020 x 7"	0.5 x 175mm	<b>T0207GTM</b>	
	.040 x 7"	1.0 x 175mm	<b>T0407GTM</b>	
	1/16 x 7"	1.6 x 175mm	<b>T1167GTM</b>	<b>T1167GTM-3</b>
	3/32 x 7"	2.4 x 175mm	<b>T3327GTM</b>	<b>T3327GTM-3</b>
	5/32 x 7"	4.0 x 175mm	<b>T5327GTM</b>	<b>T5327GTM-3</b>

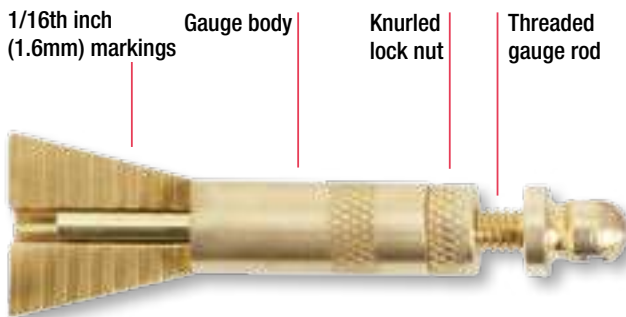
Oxides used are primarily zirconium, thorium, lanthanum or cerium. Additions are usually 1% – 4%. These oxides greatly improve arc initiation, especially when direct current (DC) welding is employed. Thorium oxide (thoria) has been used for many years, having been found effective in terms of long life and thermal efficiency. Zirconium oxide (zirconia) has been commonly used for alternating (AC) TIG welding, normally for welding aluminum.

TIG welding electrodes usually contain small quantities of metallic oxides, which can offer the following benefits:

- Facilitate arc starting
- Increase arc stability
- Improve current carrying capacity of the electrode
- Reduce the risk of weld contamination
- Increase electrode life



# TUNGSTEN STICK-OUT GAUGE



- Loosen knurled lock nut
- Turn threaded gauge rod to adjust gauge depth. (markings are in 1/16th inch increments)
- Lock gauge by turning knurled lock nut firmly against the gauge body



ORDER #  
TG1-24



ORDER #  
TG1

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**TURBO-SHARP® X**

**Tungsten Electrode Grinder**

- Enclosed electrode grinder
- Minimizes grinding dust exposure to both the user and the environment
- Standard head for diameters: .040" (1.0mm), 1/16" (1.6mm), 3/32" (2.4mm), and 1/8" (3.2mm)
- Angles adjustable from 20°– 60°
- Consistent tip geometry
- Eliminate grinding wheel contamination

**TURBO-SHARP® X**



*New improved TURBO-SHARP features adjustable head! – GRINDING DISCS LAST 3 x LONGER!!*

**SPECIAL FEATURES:**

- **Multi-functional cover**  
Through a slot in the cover one can flatten the electrode to prepare a truncated cone.
- **Setting the angle**  
Angles adjustable from 20°– 60°
- **Grinding disc**  
Both sides coated with diamond-powder, giving double wheel life.
- **Unbelievable result**  
TURBO-SHARP® X allows exact repetition of longitudinal grinding.
- **Ergonomic**  
TURBO-SHARP® X is optimal with respect to weight and handling.



*Both sides coated with diamond-powder*



**CONSISTENT RESULTS:**

Stepless grinding angles 20°– 60°

**SPECIFICATIONS**

Voltage .....120V or 230V AC  
 Single Phase.....60 Hz  
 Power .....400 W  
 Amp.....3.5 A  
 No Load Speed ..... 30,000 RPM  
 Weight..... 3.7 lbs. (1,690 grams)  
 Guarantee..... 2 years

*TURBO-SHARP® X can be equipped with an optional grinder head (TS3-HR).*

*Using the red head, you can grind electrodes of diameter: 1/8" (3.2mm), 5/32" (4.0mm), 3/16" (4.8mm) and 1/4" (6.4mm)*



Turbo-Sharp® X is a registered trademark of JAS.

**SHORT TUNGSTEN KIT**

FOR USE WITH TS3-HR GRINDER HEAD ONLY

**HOLDS SHORTER LENGTH TUNGSTEN**

*Grind tungstens as short as 3/4" (1.9cm)*



**INCLUDES:**  
 .040" (1.0mm),  
 1/16" (1.6mm) and  
 3/32" (2.4mm) collets

**NOT INCLUDED WITH TURBO-SHARP X TUNGSTEN SHARPENER**

ORDER #	DESCRIPTION
TS10	120 V GRINDER (Includes TS3-HB)
TS10-230	230 V GRINDER (Includes TS3-HB)
TS3-W	REPLACEMENT WHEEL
TS3-HB	GRINDER HEAD .040"–1/8" (1.0mm - 3.2mm)
TS3-HR	GRINDER HEAD 1/8" (3.2mm), 5/32" (4.0mm), 3/16" (4.8mm), 1/4" (6.4mm)
TS3-STK	SHORT TUNGSTEN KIT (TS3-HR required)



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## ELECTRONIC WELDING HELMET

- 4 Sensors for out of position welding
- High quality LCD and multilayer optical interference filter provide clear view and permanent UV/IR protection up to DIN 15.
- Power supply by solar cells and Lithium batteries (replaceable).
- Digital low battery warning indicator.
- Mask made of high impact resistant special nylon.
- Ample mask space, especially for ears and neck.
- Adaptor for plastic magnifying lens.
- CE EN 379, ANSI Z87.1, CSA Z94.3
- Standard 4-1/2" x 5-1/4" (11.4cm x 13.3cm) cover lens.

**ORDER # CK-ADWH**



### SPECIFICATIONS

Cartridge Size .....	4-1/2" x 5-1/4" x 3/8"
.....	(114mm x 133mm x 9.5mm)
Viewing Size .....	3.94" x 2.36" (100mm x 60mm)
Light State Shade .....	4
Dark State Shade .....	9 – 13
Shade Control .....	Internal and Digital
Grinding Function .....	Digital
Sensitivity Control .....	Adjustable
Switching Time .....	0.08 milliseconds
Arc Sensors .....	4
Weight .....	1.21 lbs. (550 grams)
Warranty .....	2 years



### ALUMINUM (ACHF)

METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	1/16" (1.6mm)	4, 5, 6	ARGON	15 (7)	20	60-80	12" (307.2mm)
	FILLET							70-90	10" (256mm)
1/8" (3.2mm)	BUTT	3/32" (2.4mm)	3/32" (2.4mm)	6, 7	ARGON	17 (8)	20	125-145	12" (307.2mm)
	FILLET		1/8" (3.2mm)					140-160	10" (256mm)
3/16" (4.8mm)	BUTT	1/8" (3.2mm)	1/8" (3.2mm)	7, 8	ARGON/HELIUM	21 (10)	20	195-220	11" (258.6mm)
	FILLET		1/16" (1.6mm)					210-240	9" (230.4mm)
1/4" (6.4mm)	BUTT	3/16" (4.8mm)	1/8" (3.2mm)	8, 10	ARGON/HELIUM	25 (12)	20	260-300	10" (256mm)
	FILLET		1/16" (1.6mm)					280-320	8" (204.8mm)

### WELDING ALUMINUM

The use of TIG welding for aluminum has many advantages for both manual and automatic processes. Filler metal can be either wire or rod and should be compatible with the base alloy. Filler metal must be dry, free of oxides, grease, or other foreign matter. If filler metal becomes damp, heat for 2 hours at 250°F (121°C) before using. Although ACHF is recommended, DCRP has been successful up to 3/32" (2.4mm), DCSP with helium shield gas is successful in mechanized applications.

### TITANIUM (DCSP)

METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	NONE	4, 5, 6	ARGON	15 (7)	20	90-110	10" (256mm)
	FILLET							110-150	8" (204.8mm)
1/8" (3.2mm)	BUTT	3/32" (2.4mm)	1/16" (1.6mm)	5, 6, 7	ARGON	15 (7)	20	190-220	9" (230.4mm)
	FILLET							210-250	7" (179.2mm)
3/16" (4.8mm)	BUTT	3/32" (2.4mm)	1/8" (3.2mm)	6, 7, 8	ARGON	20 (10)	20	220-250	8" (204.8mm)
	FILLET							240-280	7" (179.2mm)
1/4" (6.4mm)	BUTT	1/8" (3.2mm)	1/8" (3.2mm)	8, 10	ARGON	30 (15)	20	275-310	8" (204.8mm)
	FILLET							290-340	7" (179.2mm)

### WELDING TITANIUM

Small amounts of impurities, particularly oxygen and nitrogen, cause embrittlement of molten or hot titanium when above 500°F (260°C). The molten weld metal in the heat-affected zones must be shielded by a protective blanket of inert gas. Titanium requires a strong, positive pressure of argon or helium as a backup on the root side of the weld, as well as long, trailing, protective tail of argon gas to protect the metal while cooling. Purge chambers and trailing shields are available from CK Worldwide to assist in providing quality results.

### MAGNESIUM (ACHF)

METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	3/32" (2.4mm)	5, 6	ARGON	13 (5)	15	60	20" (512mm)
	FILLET		1/8" (3.2mm)					60	
1/8" (3.2mm)	BUTT	3/32" (2.4mm)	1/8" (3.2mm)	7, 8	ARGON	19 (9)	15	115	17" (435.2mm)
	FILLET		5/32" (4.0mm)					115	
1/4" (6.4mm)	BUTT	3/16" (4.8mm)	5/32" (4.0mm)	8	ARGON	25 (12)	15	100-130	22" (563.2mm)
	FILLET							110-135	20" (512mm)
1/2" (12.8mm)	BUTT	1/4" (6.4mm)	3/16" (4.8mm)	10	ARGON	35 (17)	15	260	10" (256mm)
FILLET									

### WELDING MAGNESIUM

Magnesium was one of the first metals to be welded commercially by TIG. Magnesium alloys are in three groups, they are: (1) aluminum-zinc-magnesium, (2) aluminum-magnesium, and (3) manganese-magnesium. Since magnesium absorbs a number of harmful ingredients and oxidize rapidly when subjected to welding heat, TIG welding in an inert gas atmosphere is distinctly advantageous. The welding of magnesium is similar, in many respects, to the welding of aluminum. Magnesium requires a positive pressure of argon as a backup on the root side of the weld.



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## DEOXIDIZED COPPER (DCSP)

METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	1/16" (1.6mm)	4, 5, 6	ARGON	18 (9)	15	110-140	12" (307.2mm)
	FILLET							130-150	10" (256mm)
1/8" (3.2mm)	BUTT	3/32" (2.4mm)	3/32" (2.4mm)	4, 5, 6	ARGON	18 (9)	15	175-225	11" (258.6mm)
	FILLET							200-250	9" (230.4mm)
3/16" (4.8mm)	BUTT	1/8" (3.2mm)	1/8" (3.2mm)	8, 10	HELIUM	36 (17.5)	15	190-225	10" (256mm)
	FILLET							205-250	8" (204.8mm)
1/4" (6.4mm)	BUTT (2)	3/16" (4.8mm)	1/8" (3.2mm)	8, 10	HELIUM	36 (17.5)	15	225-260	9" (230.4mm)
	FILLET							250-280	7" (179.2mm)

## WELDING DEOXIDIZED COPPER

Where extensive welding is to be done, the use of deoxidized (oxygen-free) copper is preferable over electrolytic tough pitch copper. Although TIG welding has been used occasionally to weld zinc-bearing copper alloys, such as brass and commercial bronzes, it is not recommended because the shielding gas does not suppress the vaporization of zinc. For the same reason zinc bearing filler rods should not be used. There is some preference of helium for the inert atmosphere in welding thickness above 1/8" (3.2mm) because of the improved weld metal fluidity. Pre-heating recommendations should be followed.

## STAINLESS STEEL (DCSP)

METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	1/16" (1.6mm)	4, 5, 6	ARGON	11 (5.5)	20	80-100	12" (307.2mm)
	FILLET							90-100	10" (256mm)
1/8" (3.2mm)	BUTT	1/16" (1.6mm)	3/32" (2.4mm)	4, 5, 6	ARGON	11 (5.5)	20	120-140	12" (307.2mm)
	FILLET							130-150	10" (256mm)
3/16" (4.8mm)	BUTT	3/32" (2.4mm)	1/8" (3.2mm)	5, 6, 7	ARGON	13 (6)	20	200-250	12" (307.2mm)
	FILLET	3/32" (2.4mm) 1/8" (3.2mm)						225-275	10" (256mm)
1/4" (6.4mm)	BUTT	1/8" (3.2mm)	3/16" (4.8mm)	8, 10	ARGON	13 (6)	20	275-350	10" (256mm)
	FILLET							300-375	8" (204.8mm)

## WELDING STAINLESS STEEL

In TIG welding of stainless steel, welding rods having the AWS-ASTM prefixes of E or ER can be used as filler rods. However, only bare uncoated rods should be used. Light gauge metals less than 1/16" (1.6mm) thick should always be welded with DCSP using argon gas. Follow the normal precautions for welding stainless such as: Clean surfaces; dry electrodes; use only stainless steel tools and brushes, keep stainless from coming in contact with other metals.

## LOW ALLOY STEEL (DCSP)

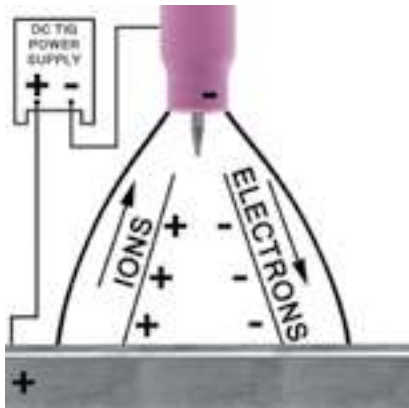
METAL GAUGE	JOINT TYPE	TUNGSTEN SIZE	FILLER ROD SIZE	CUP SIZE	SHIELD GAS FLOW			WELDING AMPERES	TRAVEL SPEED
					TYPE	CFH (L/MN)	PSI		
1/16" (1.6mm)	BUTT	1/16" (1.6mm)	1/16" (1.6mm)	4, 5, 6	ARGON	15 (7)	20	95-135	15" (384mm)
	FILLET							95-135	15" (384mm)
1/8" (3.2mm)	BUTT	1/16" (1.6mm) 3/32 (2.4mm)	3/32" (2.4mm)	4, 5, 6	ARGON	15 (7)	20	145-205	11" (258.6mm)
	FILLET							145-205	11" (258.6mm)
3/16" (4.8mm)	BUTT	3/32" (2.4mm)	1/8" (3.2mm)	7, 8	ARGON	16 (6.5)	20	210-260	10" (256mm)
	FILLET							210-260	10" (256mm)
1/4" (6.4mm)	BUTT	1/8" (3.2mm)	5/32" (4.0mm)	8, 10	ARGON	18 (8.5)	20	240-300	10" (256mm)
	FILLET (2)							240-300	10" (256mm)

## WELDING LOW ALLOY STEEL

Mild and low carbon steels with less than 0.30% carbon and less than 1" (2.5cm) thick, generally do not require preheat. An exception to this allowance is welding on highly restrained joints. These joints should be preheated 50 to 100°F (10 to 38°C) to minimize shrinkage cracks in the base metal. Low alloy steels such as the chromium-molybdenum steels will have hard heat affected zones after welding, if the preheat temperature is too low. This is caused by rapid cooling of the base material and the formation of martensitic grain structures. A 200 to 400°F (93 to 204°C) preheat temperature will slow the cooling rate and prevent the martensitic structure.

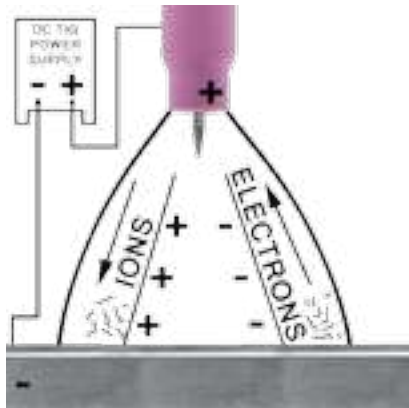
## Characteristics of Current Types for Gas Tungsten Arc Welding

When TIG welding, there are three choices of welding current. They are: Direct Current Straight Polarity (DCSP), Direct Current Reverse Polarity (DCRP), and Alternating Current with High Frequency stabilization (ACHF). Each of these has its applications, advantages, and disadvantages. A look at each type and its uses will help the operator select the best current type for the job. The type of current used will have a great effect on the penetration pattern as well as the bead configuration. The diagrams below show arc characteristics of each current polarity type.



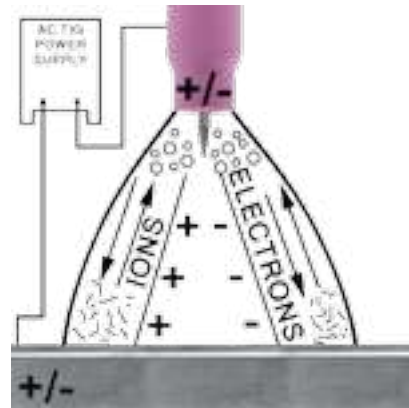
**TIG WELDING DCSP**  
(Direct Current Straight Polarity)  
produces deep penetration because it concentrates the heat in the joint area. No cleaning action occurs with this polarity.

CURRENT TYPE	DCSP
ELECTRODE POLARITY	Electrode negative
OXIDE CLEANING ACTION	No
HEAT BALANCE IN THE ARC	70% of work end 30% at electrode end
PENETRATION PROFILE	Deep narrow
ELECTRODE CAPACITY	Excellent



**TIG WELDING DCRP**  
(Direct Current Reverse Polarity)  
produces good cleaning action as the argon ions flowing towards the work strike with sufficient force to break up oxides on the surface.

CURRENT TYPE	DCRP
ELECTRODE POLARITY	Electrode positive
OXIDE CLEANING ACTION	Yes
HEAT BALANCE IN THE ARC	30% of work end 70% at electrode end
PENETRATION PROFILE	Shallow wide
ELECTRODE CAPACITY	Poor



**TIG WELDING WITH ACHF**  
(Alternating Current High Frequency)  
combines the good weld penetration on the negative half cycle with the desired cleaning action of the positive half cycle. High frequency reestablishes the arc which breaks each half cycle.

CURRENT TYPE	ACHF
ELECTRODE POLARITY	Alternating
OXIDE CLEANING ACTION	Yes (once every half cycle)
HEAT BALANCE IN THE ARC	50% of work end 50% at electrode end
PENETRATION PROFILE	Medium
ELECTRODE CAPACITY	Good

### FREE ONLINE TIG WELDING TRAINING

CK Worldwide and Weldmark University are offering basic training for TIG welding torches and accessories. Visit [www.WeldTRAIN.com](http://www.WeldTRAIN.com) for more information.



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## SHIELD GAS SELECTOR CHART

BASE METAL TYPE	THICKNESS RANGE	WELD TYPE	SHIELD GAS TYPE	CHARACTERISTICS
<b>ALUMINUM ALLOYS AND MAGNESIUM ALLOYS</b>	Thin	Manual	Pure Argon	<i>Best arc starts, control of penetration, cleaning and appearance on thin gauges.</i>
	Thick	Manual	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
	General Purpose	Manual	Pure Argon	<i>Best overall for good arc starts, control of penetration, cleaning and appearance.</i>
	Thin	Mechanized	50 Ar - 50 He	<i>Higher weld speed under 3/4" (1.9cm) thick, with good arc stability and starting.</i>
	Thick	Mechanized	Pure Helium	<i>Highest weld speeds, deeper penetration with DCSP, demanding arc starting and fixturing requirements, high flow rates needed.</i>
<b>COPPER ALLOYS Cu-NI ALLOYS NICKEL ALLOYS</b>	Thin	Manual	Pure Argon	<i>Good control of weld puddle, bead contour, and penetration on thin gauges</i>
	Thick	Manual	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
	General Purpose	Manual	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
	Thin	Mechanized	25 Ar - 75 He	<i>Higher weld speed under 3/4" (1.9cm) thick, with good arc stability and starting.</i>
	Thick	Mechanized	Pure Helium	<i>Highest weld speeds, deeper penetration with DCSP, demanding arc starting and fixturing requirements, high flow rates needed.</i>
<b>LOW CARBON ALLOYS AND LOW ALLOY STEELS</b>	Thin	Manual	Pure Argon	<i>Best arc starts, control of penetration, cleaning and appearance on thin gauges.</i>
	Thick	Manual	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
	General Purpose	Manual	Pure Argon	<i>Best overall for good arc starts, control of penetration, cleaning and appearance.</i>
	Thin	Mechanized	Pure Argon	<i>Best overall for good arc starts, control of penetration, cleaning and appearance.</i>
	Thick	Mechanized	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
<b>STAINLESS STEELS AND DUPLEX ALLOYS</b>	Thin	Manual	Argon under 1/16" 95 Ar - 5 H over 1/16"	<i>Argon with hydrogen added increases heat input and improves bead contour with lower gas flows, improves weld puddle wetting and minimizes undercutting.</i>
	Thick	Manual	75 Ar - 25 He	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
	General Purpose	Manual	Argon or 95 Ar - 5 H	<i>Argon or 95 Ar - 5 H can be used interchangeably on austenitic stainless steel.</i>
	Thin	Mechanized	Argon or 85 Ar - 15 H	<i>Argon provides stable arc control, 85 Ar - 15 H doubles argon's welding speeds.</i>
	Thick	Mechanized	75 Ar - 25 He or 65 Ar - 35 H	<i>Increase heat input with good arc starts of argon, but with faster welding speeds.</i>
<b>TITANIUM ALLOYS</b>	Thin	Manual	Pure Argon	<i>Argon's high density provides optimum shielding and arc stability.</i>
	Thick	Manual	Argon or 75 Ar - 25 He	<i>Argon with helium addition adds penetration for manual welding of thick sections.</i>
	General Purpose	Manual	Pure Argon	<i>Best overall for good arc starts, control of penetration, cleaning and appearance.</i>
	Thin	Mechanized	Pure Argon	<i>Best arc starts, control of penetration, cleaning and appearance on thin gauges.</i>
	Thick	Mechanized	Argon or 75 Ar - 25 He	<i>Argon with helium addition adds penetration for manual welding of thick sections.</i>
	Thick	Mechanized	Pure Argon	<i>Argon's high density provides needed shielding of exposed areas at back of weld.</i>

## GUIDE FOR SHIELD GAS FLOWS, CURRENT SETTINGS & CUP SELECTION

Electrode Diameter	Cup Size	WELDING CURRENT (AMPS) TUNGSTEN TYPE				ARGON FLOW FERROUS METALS		ARGON FLOW ALUMINUM	
		AC Pure	AC Thoriated	DCSP Pure	DCSP Thoriated	Standard Body CFH (L/MN)	Gas Lens Body CFH (L/MN)	Standard Body CFH (L/MN)	Gas Lens Body CFH (L/MN)
.020" (0.50mm)	3, 4, or 5	5-15	5-20	5-15	5-20	5-8 (3-4)	5-8 (3-4)	5-8 (3-4)	5-8 (3-4)
.040" (1.00mm)	4 or 5	10-60	15-80	15-70	20-80	5-10 (3-5)	5-8 (3-4)	5-12 (3-6)	5-10 (3-5)
1/16" (1.60mm)	4, 5, or 6	50-100	70-150	70-130	80-150	7-12 (4-6)	5-10 (3-5)	8-15 (4-7)	7-12 (4-6)
3/32" (2.40mm)	6, 7, or 8	100-160	140-235	150-220	150-250	10-15 (5-7)	8-10 (4-5)	10-20 (5-10)	10-15 (5-7)
1/8" (3.20mm)	7, 8, or 10	150-210	220-325	220-330	240-350	10-18 (5-9)	8-12 (4-6)	12-25 (6-12)	10-20 (5-10)
5/32" (4.00mm)	8 or 10	200-275	300-425	375-475	400-500	15-25 (7-12)	10-15 (5-7)	15-30 (7-14)	12-25 (6-12)
3/16" (4.80mm)	8 or 10	250-350	400-525	475-800	475-800	20-35 (10-17)	12-25 (6-12)	25-40 (12-19)	15-30 (7-14)
1/4" (6.40mm)	10	325-700	500-700	750-1000	700-1000	25-50 (12-24)	20-35 (10-17)	30-55 (14-26)	25-45 (12-21)

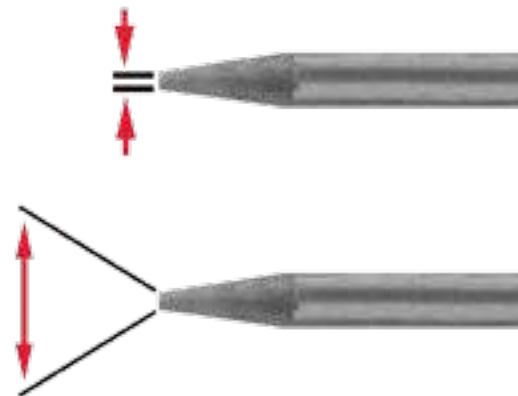
*For pure helium shielding gas, double flow rates shown. For argon-helium mixes with below 30% helium content, use figures shown. Always adjust gas flows to accommodate best shielding results.*

Shape by grinding longitudinally (never radially). Remove the sharp point to leave a truncated point with a flat spot. Diameter of the flat spot determines amperage capacity (see below).

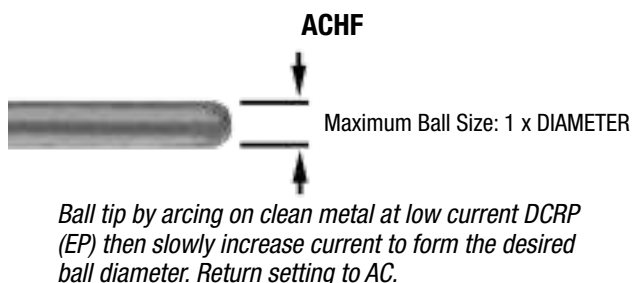
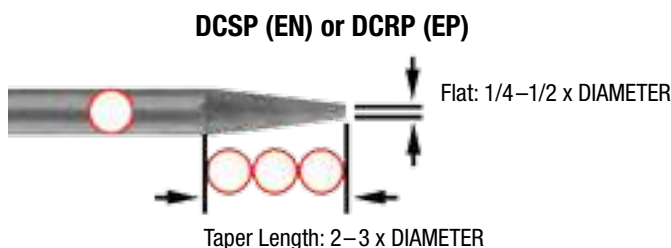


## Tungsten Grinding

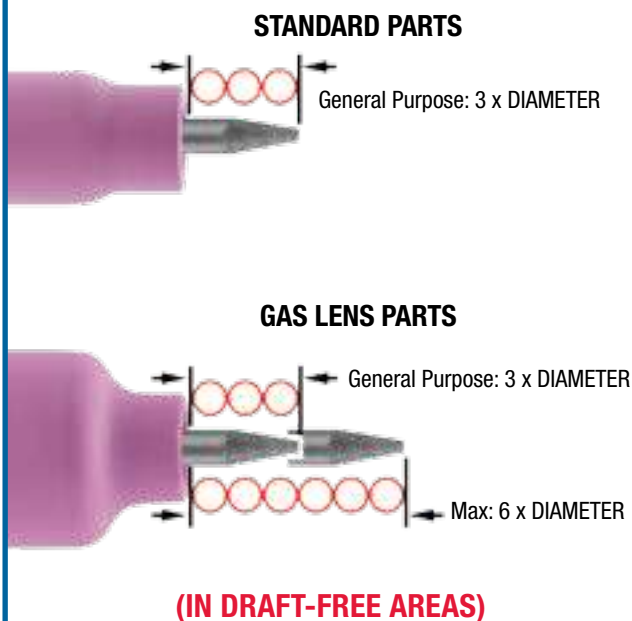
The included angle determines the weld bead shape and size. Generally, as the included angle increases, penetration increases and bead width decreases.



## Tungsten Tip Preparation



## Tungsten Extension



## Tungsten Electrode Tip Shapes and Current Ranges

Thoriated, ceriated, and lanthanated tungsten electrodes do not ball as readily as pure or zirconiated tungsten electrodes, and as such are typically used for DCSP welding. These electrodes maintain a ground tip shape much better than the pure tungsten electrodes. If used on AC, thoriated and lanthanated electrodes often spit. Regardless of the electrode tip geometry selected, it is important that a consistent tip configuration be used once a welding procedure is established. Changes in electrode geometry can have a significant influence not only on the weld bead width, depth of penetration, and resultant quality, but also on the electrical characteristics of the arc. Below is a guide for electrode tip preparation for a range of sizes with recommended current ranges.

ELECTRODE DIAMETER		DIAMETER AT TIP		CONSTANT INCLUDED ANGLE, DEGREES	CURRENT RANGE A	PULSED CURRENT RANGE A
Millimeters	Inches	Millimeters	Inches			
1.0mm	.040"	.125mm	.005"	12°	2–15 amps	2–25 amps
1.0mm	.040"	.250mm	.010"	20°	5–30 amps	5–60 amps
1.6mm	1/16"	.500mm	.020"	25°	8–50 amps	8–100 amps
1.6mm	1/16"	.800mm	.030"	30°	10–70 amps	10–140 amps
2.4mm	3/32"	.800mm	.030"	35	12–90 amps	12–180 amps
2.4mm	3/32"	1.100mm	.045"	45	15–150 amps	15–250 amps
3.2mm	1/8"	1.100mm	.045"	60	20–200 amps	20–300 amps
3.2mm	1/8"	1.500mm	.060"	90	25–250 amps	25–350 amps










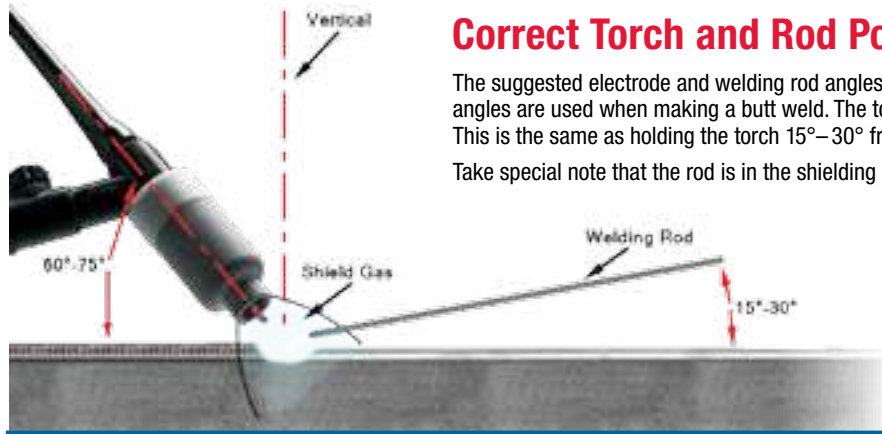
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## Color Code and Alloying Elements for Various Tungsten Electrode Alloys

Designation		Chemical Composition Impurities ≤0.1%		TIP COLOR	
ISO 6848	AWS A5.12	OXIDE ADDITIVE	TUNGSTEN		
WT20	EWTh-2	ThO <sub>2</sub> : 1.70–2.20%	≥97.30%	Red	
WP	EWP	~~~~~	≥99.95%	Green	
WL15	EWLa-1.5	La <sub>2</sub> O <sub>3</sub> : 1.30–1.70%	≥97.80%	Gold	
WC20	EWCe-2	CeO <sub>2</sub> : 1.80–2.20%	≥97.30%	Gray	
WL20	EWLa-2	La <sub>2</sub> O <sub>3</sub> : 1.80–2.20%	≥97.30%	Blue	
WZ8	EWZr-8	ZrO <sub>2</sub> : 0.70–0.90%	≥98.60%	White	
LaYZr	EWG	La <sub>2</sub> O <sub>3</sub> : 1.3–1.7%; ZrO <sub>2</sub> : 0.06–0.10%; Y <sub>2</sub> O <sub>3</sub> : 0.6–1.0%	≥98.34%	Chartreuse	



### Correct Torch and Rod Positioning

The suggested electrode and welding rod angles for welding a bead on plate. The same angles are used when making a butt weld. The torch is held 60°–75° from the metal surface. This is the same as holding the torch 15°–30° from the vertical.

Take special note that the rod is in the shielding gas during the welding process.

### Selecting the Correct Torch Nozzle



Most nozzles used for GTAW are manufactured from ceramic materials, alumina (pink colored) and lava (white colored). The exit diameter (diameter closest to the arc) is manufactured in a variety of sizes. GTAW nozzles are also made in various lengths from short nozzles to extra-long nozzles.

Alumina nozzles are the most commonly used nozzles in GTAW. Alumina nozzles are molded from alumina oxide and the density of the alumina oxide determines the quality of the nozzle in relationship to impact resistance and thermal shock. Alumina nozzles are more impact resistant than lava nozzles. The impact resistance of the alumina nozzles makes them more durable and are used for general applications.

Ceramic (lava) cups are recommended for use in applications where high reflective heat is present. Alumina nozzles tend to break when used in confined areas or when high reflective heat is present. If this type of usage is contemplated, we recommend the use of ceramic (lava) cups. When alumina nozzles are fired in the oven at 3000°F during manufacturing, they shrink 18% in length and 27% in diameter. If the nozzle is subsequently used in a confined area, excessive heat is transferred back into the nozzle

causing it to expand. Cooling shrinks the nozzle back to normal. The large difference between expansion and contraction results in breakage.

The exit diameter for any nozzle is specified with a number that represents the diameter in 1/16" (1.6mm) increments. a number 5 nozzle is therefore 5/16" inside diameter. A number 6 nozzle is 3/8" or 6/16" and so on.

The diameter for any nozzle must be large enough to allow the entire weld area to be covered by the shielding gas. The exit diameter can be neither too large nor too small, or poor shield gas coverage will result.

### Gas Lens Benefits



Using a gas lens will give the welder a more precise column of gas flow. This allows the electrode to stick out farther for visibility, allowing for better access to the weld area and a reduction in gas flow (CFH/L/Min).

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