



WORLDWIDE



**THE STANDARD
IN TIG WELDING**

SOLUTIONS GUIDE



TIG INNOVATIONS
SINCE 1967

THE STANDARD IN TIG WELDING

INNOVATIVE PRODUCTS
UNMATCHED QUALITY
& SERVICE
ALL THINGS TIG



Since 1967, CK Worldwide has brought more innovations to TIG Welding equipment than any other manufacturer. With more patents on product design and improvements than anyone else, CK Worldwide sets THE STANDARD IN TIG WELDING.



CK INNOVATIONS THAT CHANGED AN INDUSTRY:

- Silicone rubber insulation replaces phenolic—better drop protection
- Efficient Gas Saver™ technology reduces operating costs with improved weld quality
- Max-Flo™ water-cooled torches provide up to 4X the cooling capacity—reducing downtime and allowing torches to run longer
- Wedge collet lasts up to 10X longer than standard split collet
- Fail-Safe hose connectors create a positive seal and offer years of dependable service

OFFERING YOUR CUSTOMERS TOP QUALITY TIG PRODUCTS
AND SERVICE WILL BOOST YOUR ARGON SALES

Get New TIG Welding Business!

GENERATE new business through innovative, and specifically designed products
PROVIDE solutions to increase productivity and create repeat sales
UPGRADE current torch setups, hoses, consumables, and accessories

This Solutions Guide from CK Worldwide is designed to provide selling solutions on TIG applications with innovative products that provide greater value than selling by price alone.

Selling TIG products has become very price competitive with no real advantage for the end user. With this booklet you will have the ability to provide CK Worldwide TIG welding solutions based on actual industry applications. Learn to upgrade TIG torches and accessories specifically for the customer and deliver real solutions to everyday situations. CK MasterTIG and UltraTIG limited distribution products increase your profit margin and are not available through all welding distributors or wholesalers. Use this guide to help in establishing repeat high profit margin business, and provide your customers with a dependable source of quality TIG products.



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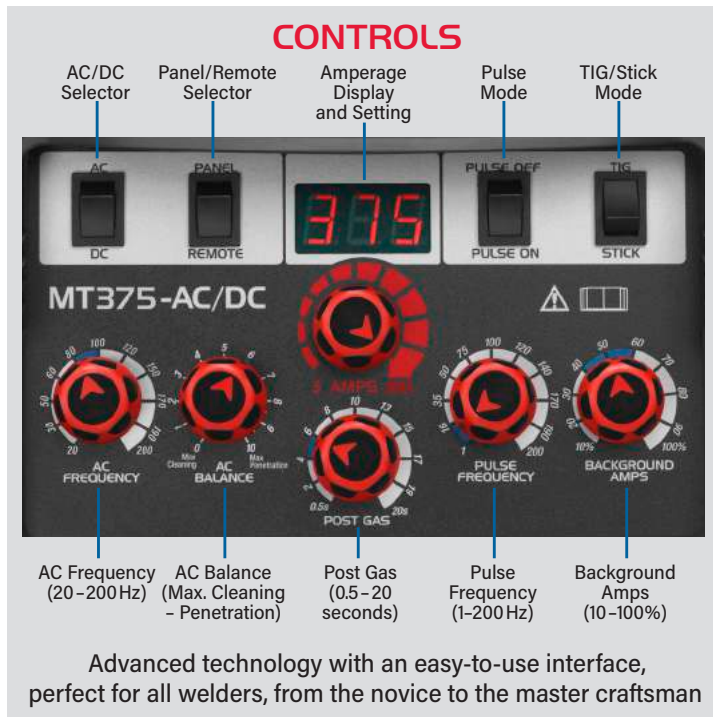
CONNECT WITH US ON:



MT375-AC/DC TIG WELDING SYSTEM

The MT375AC/DC is a dual voltage powerful 375 amp inverter with; AC balance and frequency, post gas flow settings, and pulse settings that use analog dials allowing for ease of use and range. The MT375 is fully equipped with a dual pump water cooler, utility cart, TL18 Trim-Line 350 amp flex neck torch with Super-Flex cables, ground cable and clamp, argon hose, accessory kit, and new patented Steady-Grip Foot Pedal.

With background testing performed by production welders and the best TIG welding professionals in the industry the MT375 delivers precision welding.



MT375 SPECIFICATIONS

Input Voltage	230VAC ±10%, 50/60Hz, single phase
	460VAC ±10%, 50/60Hz, single phase
Input Current (I max)(I eff)	230V: 44 Amps / 26 Amps
	460V: 38 Amps / 23 Amps
Output Current Range GTAW	230V: 5 - 275 Amps DC; 5 - 260 Amps AC
	460V: 5 - 375 Amps DC; 5 - 360 Amps AC
Output Current Range SMAW	230V: 10 - 200 Amps DC
	460V: 10 - 300 Amps DC
Rated Output GTAW	230V: 275 Amps @ 21.0 VDC, 35% duty cycle 260 Amps @ 20.4 VAC, 35% duty cycle
	460V: 375 Amps @ 25.0 VDC, 35% duty cycle 360 Amps @ 24.2 VAC, 35% duty cycle
Rated Output SMAW	230V: 200 Amps @ 28.0 VDC, 40% duty cycle
	460V: 300 Amps @ 32.0 VDC, 40% duty cycle
Max. Open Circuit Volts	84 volts

Gas Pre-flow	0.5 seconds
Gas Post-flow	0.5 - 20 seconds
AC Frequency	20 - 200 Hz
Pulse Frequency	1 - 200 Hz
Pulse Width	50%
Background Current	10 - 100%
Arc Start	High Frequency
MT375 Dimensions	Height: 15 in. (381mm)
	Width: 10.5 in. (267mm)
	Length: 20.5 in. (521mm)
MT375 Weight	82 lb. (37.2kg)
Full System Dimensions	Height: 45 in. (1143mm)
	Width: 20 in. (508mm)
	Length: 42 in. (1067mm)
System Weight	170 lb. (77.1kg)

PLEASE NOTE WHEN USING GENERATOR POWER:
MINIMUM SUGGESTED POWER IS 15KVA @ 230 Volts



TOLL FREE: (800) 426.0877 | www.CKWORLDWIDE.com

DUAL-PUMP WATER COOLER

The WC375 water cooler included with the MT375 TIG welding system may also be purchased separately. The WC375 delivers maximum coolant flow due to the unit's twin pumps. Dual pumps work in tandem, one to pull coolant from system and one to push coolant into system maintaining proper volume of coolant. Twin fans insure maximum cooling on extra-large heat exchangers.

KEY FEATURES:

- Corrosion free
- No priming required
- Quick fill and drain, no-spill tank
- Easy maintenance



WC375 SPECIFICATIONS

Input Voltage	110VAC ±10%, 50/60Hz
Input Current (I _{max})	5 Amps
BTU (max)	14,200
Coolant Capacity	9 liters / 2.5 gallons
Coolant Type	Binzel® BTC-15 is recommended. 80% distilled water/20% organic coolant.
Unit Dimensions	Height: 18 in. (457mm)
	Width: 10.5 in. (267mm)
	Length: 24 in. (610mm)

Order # **WC375**

PATENTED STEADY-GRIP FOOT PEDAL AMPERAGE CONTROL

This new foot pedal design provides maximum flexibility due to the integrated Steady-Grip pistol grip amperage control. Simply open up the foot pedal using two quick release bolts and extract the popular Steady-Grip pistol grip amperage control when needed. Attach your torch via the hook-and-loop straps and you're ready to weld!



Foot Pedal Control



Steady-Grip™ pistol grip amperage control option



Insert TL18 or another torch to use (torch shown not included)



Remove handle to use as linear slide configuration (torch shown not included)

MT200-AC/DC TIG WELDING SYSTEM

CK EXCLUSIVE



With background testing performed by production welders and the best TIG welding professionals in the industry the MT200 delivers precision welding in a conveniently packaged system.

The MT200-AC/DC is the answer to both creativity and production driven TIG welding. This innovative TIG welding machine provides the ability to quickly and efficiently adapt to dynamic welding situations, while maintaining the same quality of experience you have come to expect from CK Worldwide.

Its compact portable design allows you to easily tackle any project from fabrication and education to aerospace and nuclear applications. Whether you TIG weld for enjoyment or as a career you will find that the MT200 can help you accomplish your toughest welding challenges.

- High-performance dual voltage inverter for 115V and 220V
- Two dynamic welding modes: GTAW (TIG) and SMAW (Stick)
- Easy-to-use interface allows for quick setting adjustments
- Compact, portable design for use in multiple applications



MT200 SPECIFICATIONS

Input Voltage	115VAC ±15%, 50/60Hz 220VAC ±15%, 50/60Hz, single phase
Input Current (I max)	115V: 21 Amps 220V: 34 Amps
Output Current Range GTAW	115V: 5 - 140 Amps 220V: 5 - 200 Amps
Output Current Range SMAW	115V: 10 - 110 Amps 220V: 10 - 160 Amps
Rated Output GTAW	115V: 140A @ 15.6V, 40% duty cycle 220V: 200A @ 18.0V, 25% duty cycle
Rated Output SMAW	115V: 110A @ 24.4V, 25% duty cycle 220V: 160A @ 26.4V, 30% duty cycle

Max. Open Circuit Volts	74 volts
Gas Pre-flow	0.5 seconds
Gas Post-flow	0.5 - 20 seconds
AC Frequency	20 - 250 Hz
Pulse Frequency	1 - 200 Hz
Pulse Width	50%
Base Current	10 - 100%
Arc Start	High Frequency
Dimensions	Height: 15 in. (381mm) Width: 8.5 in. (217 mm) Length: 20 in. (502mm)
Weight	32 lb. (14.5 kg)

COMPLETE KIT INCLUDES:

- MT200-AC/DC
- CK17 Flex-Head Torch with 12.5' (3.8m) Super-Flex™ Cables
- Dinse Connector
- AK-3 Accessories/Consumables Kit
- Foot Pedal Amperage Control
- Ground Clamp with 12.5' (3.8m) Cable
- Single Flow Regulator
- 6' (1.8m) Argon Hose
- 220V to 115V Power Adapter

CK WORLDWIDE DELIVERS BETTER DESIGN & HIGHER-QUALITY PRODUCTS

Here at CK Worldwide we focus on designing torches and products to help you weld more efficiently. Our premium TIG welding torches and products have been industry-approved and are the first choice for many professions. CK Worldwide serves high-performance industries ranging from, motor sports, aviation/aerospace, pipe welding to art/sculpting and more.

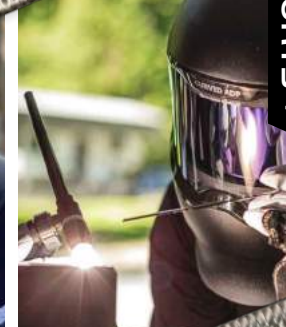
AEROSPACE

Trim-Line and Flex torches used in confined space tig welding for high-strength lightweight structures in the aerospace industry.



MOTOR SPORTS

Flex-Loc and Micro torches to ensure quality structurally sound welds in hard-to-reach places.



PIPE WELDING

High-amperage gas and water-cooled torches for critical welds on heavy wall scheduled pipe welds.



ART/ SCULPTURE

Craft intricate, detailed pieces by pairing a CK TIG Torch with Super-Flex Cables for increased range of motion and reduce fatigue.



LARGE DIAMETER GAS SAVER™ KITS

CK EXCLUSIVE

Use these conversion kits and save up to 40% of shield gas consumption plus save money on replacement parts.

- 1-1/8 inch I.D. (28.6mm) clear high temperature nozzle
- Improves visibility versus standard nozzles
- Weld titanium at low amps without a trailing shield
- Great for tack welding and small crack repair outside of chamber



2 SERIES | LRG. DIAMETER | GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK9, CK20 (2 SERIES)	1/16" (1.6mm)	ALUMINA	D2GS116LD-A
	3/32" (2.4mm)	ALUMINA	D2GS332LD-A
	1/8" (3.2mm)	ALUMINA	D2GS418LD-A
	1/16" (1.6mm)	CLEAR	D2GS116LD
	3/32" (2.4mm)	CLEAR	D2GS332LD
	1/8" (3.2mm)	CLEAR	D2GS418LD

3 SERIES | LRG. DIAMETER | GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK17, CK18, CK26 (3 SERIES)	1/16" (1.6mm)	ALUMINA	D4GS116LD-A
	3/32" (2.4mm)	ALUMINA	D4GS332LD-A
	1/8" (3.2mm)	ALUMINA	D4GS418LD-A
	1/16" (1.6mm)	CLEAR	D4GS116LD
	3/32" (2.4mm)	CLEAR	D4GS332LD
	1/8" (3.2mm)	CLEAR	D4GS418LD

PREMIUM TRAILING SHIELDS/PURGE CUPS

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.



TRAILING SHIELD
3-5" (7.6-12.7 cm)
Diameter Pipe
ORDER # TC-3R

PURGE CUP 4" (10.2 cm)
ORDER # PC-4S



TRAILING SHIELD
3" (7.6 cm)
ORDER # TC-3S

CUSTOM-SIZED | PATENTED CK EXCLUSIVE 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 inch (76.8 cm) diameter

SPECIFICATIONS

HEIGHT	20" (51.2cm)
WIDTH	30" (76.8cm)*
SHIPPINGWEIGHT	47 lbs. (21.3kg)
ZIPPER LENGTH	60" (153.6cm)
STANDARD SIZE	30" (76.8cm) diameter
	24" (61.4cm) base

ORDER # PC2000-24



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

INCLUDED PARTS:

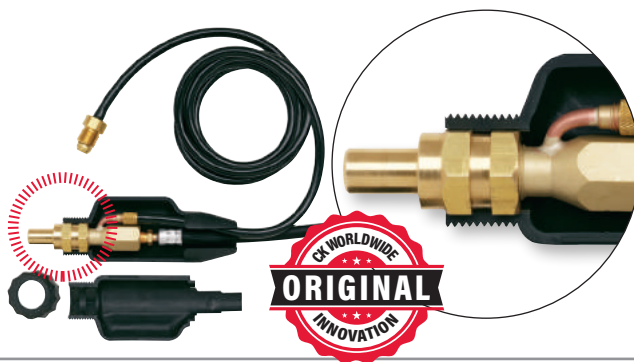
- 115V Vacuum pump (220V also available)
- Dual flowmeter/regulator
- 2 Work stations
- 2 Sets of gloves
- 4 Accessory ports
- Heat blanket
- 10' (3m) Argon hose
- 10' (3m) Vacuum hose
- Repair kit
- Storage container

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.

SAFE-LOC™—CABLE CONNECTORS

- Allows quick and easy cable extension “whips” to be made
- All electrical connections are insulated with rugged poly-resin clamshell
- Tweco, Dinse or Camlock style twist fittings available
- Water-cooled or gas-cooled torches are safely and efficiently extended up to 100 feet
- Great for extending “Stinger” electrode holders

Refer to Accessories page 20 for more details.



STEADY-GRIP™ AMPERAGE CONTROL CK EXCLUSIVE

- Replace foot pedal amperage controls with fingertip operated amperage controls
- Hook and loop strap allows amperage control to quickly mount on any TIG torch or Stick electrode holder
- Amperage controls available as a complete handle assembly
- Rotary or linear potentiometer style also available
- Fits most popular TIG machines
- Custom lengths available up to 200 feet



Refer to Accessories page 20 for more details. (Flex-Loc™ torch not included.)

CKC150 STAINLESS STEEL HEAD CK EXCLUSIVE

- 150 amp, 100% duty cycle 17 Series torch designed for harsh welding environments
- Heavy duty stainless steel head eliminates stripping or galling of threads
- Thick walled tube in neck resists breaking or bending
- All o-ring constructed valve eliminates worn out or broken ball valves

CKC150 | CONTRACTOR SPECIAL

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
RIGID	1 Piece	12.5 ft. (3.8m)	CKC1512H	CKC1512HSF	7-3/4" (19.6cm)
		25 ft. (7.6m)	CKC1525H	CKC1525HSF	
	2 Piece	12.5 ft. (3.8m)	CKC1512N	CKC1512NSF	4-1/2 oz (127gm)
		25 ft. (7.6m)	CKC1525N	CKC1525NSF	STAINLESS STEEL HEAD
RIGID + VALVE	1 Piece	12.5 ft. (3.8m)	CKC1512VH	CKC1512VHSF	
		25 ft. (7.6m)	CKC1525VH	CKC1525VHSF	
	2 Piece	12.5 ft. (3.8m)	CKC1512VN	CKC1512VNSF	
		25 ft. (7.6m)	CKC1525VN	CKC1525VNSF	



Refer to page 11 for more details.

FLEX-LOC™ TORCHES—360° ANGLE TORCH

- 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
- Water or gas cooled



Refer to CK9, CK17, CK20, or CK26 page 10, 11, 12 or 14 for more details.

CK9

GAS COOLED | SAME AS CK100
 125 amp ACHF or DCSP @ 100%
 2 Series Head Accessories

- Light weight, light duty torch
 Industry standard gas-cooled 2 Series torch
- Hardened brass alloy head
 Reduces thread damage
- Silicon rubber insulation
 High frequency protection



TORCH UPGRADES

FL130 & FL130V | FLEX-LOC

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
FL2L	1 Piece	12.5 ft. (3.8m)	FL1312	FL1312SF	7-3/4" (19.6cm) 4-3/4 oz (135gm)
		25 ft. (7.6m)	FL1325	FL1325SF	
FL2L + VALVE	1 Piece	12.5 ft. (3.8m)	FL1312V	FL1312VSF	4-3/4 oz (135gm)
		25 ft. (7.6m)	FL1325V	FL1325VSF	



360°

130 Amps



- 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

APPLICATIONS:

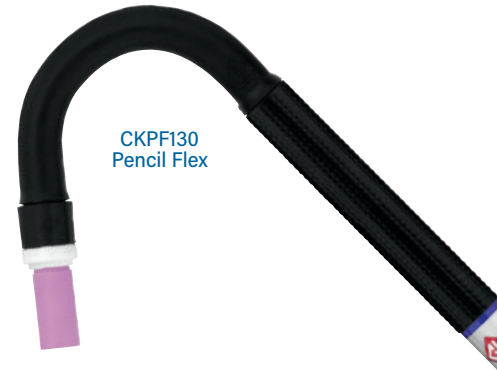
Cup walking on pipe root welds, welds that require a mirror to access weldment.

CKPF130 | PENCIL FLEX

10" (25.4cm) length available, call for ordering information.

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
FLEX	1 Piece	12.5 ft. (3.8m)	CKPF1312H	CKPF1312HSF	11" (27.9cm) 3 oz (85gm)
		25 ft. (7.6m)	CKPF1325H	CKPF1325HSF	

6" (15.2cm) Neck



CKPF130 Pencil Flex



SUPER-FLEX™ CABLES

Innovative design replaces heavy, stiff cables to increase range of motion, reducing fatigue and improving productivity.

- Lightest most flexible cable assemblies available
- Fits standard gas-cooled or water-cooled torch packages
- Stays flexible even in the coldest environments
- Silicon rubber hose construction with a nylon over-braid to resist abrasion
- Great for intricate, precise welding applications



CKI7

CKI7
150 AMP



MOST POPULAR TORCH IN THE WORLD

GAS COOLED | SAME AS CK150
150 amp ACHF or DCSP @ 100%
3 Series Head Accessories

- Largest mass head insert
Maximum cooling, longer life
- Hardened brass alloy head
Reduces thread damage
- Silicon rubber insulation, heavy-duty construction
High frequency protection, longer welding time at 150 amps

TORCH UPGRADES

FL150 & FL150V | FLEX-LOC

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
FL3L	1 Piece	12.5 ft. (3.8m)	FL1512	FL1512SF	8-1/2" (21.6cm)
		25 ft. (7.6m)	FL1525	FL1525SF	
FL3L + VALVE	1 Piece	12.5 ft. (3.8m)	FL1512V	FL1512VSF	7 oz (198gm)
		25 ft. (7.6m)	FL1525V	FL1525VSF	

- 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



APPLICATIONS:

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

CKC150 | CONTRACTOR SPECIAL

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
RIGID	1 Piece	12.5 ft. (3.8m)	CKC1512H	CKC1512HSF	7-3/4" (19.6cm)
		25 ft. (7.6m)	CKC1525H	CKC1525HSF	
	2 Piece	12.5 ft. (3.8m)	CKC1512N	CKC1512NSF	4-1/2 oz (127gm)
		25 ft. (7.6m)	CKC1525N	CKC1525NSF	
RIGID + VALVE	1 Piece	12.5 ft. (3.8m)	CKC1512VH	CKC1512VHSF	STAINLESS STEEL HEAD
		25 ft. (7.6m)	CKC1525VH	CKC1525VHSF	
	2 Piece	12.5 ft. (3.8m)	CKC1512VN	CKC1512VNSF	
		25 ft. (7.6m)	CKC1525VN	CKC1525VNSF	

- Designed for harsh welding environments
- Heavy duty stainless steel head eliminates stripping or galling of threads
- Thick walled tube in neck resists breaking or bending
- All o-ring constructed valve eliminates worn-out or broken ball valves



APPLICATIONS:

Construction companies, shipyards, vocational schools — any harsh welding environment.

TL26 & TL26V | RIGID | TRIM-LINE SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
RIGID	1 Piece	12.5 ft. (3.8m)	TL26-12-R RG	TL26-12-RSF RG	8-1/8" (20.6cm)
		25 ft. (7.6m)	TL26-25-R RG	TL26-25-RSF RG	
	2 Piece	12.5 ft. (3.8m)	TL26-12-2 RG	TL26-12-2SF RG	5 oz (141gm)
		25 ft. (7.6m)	TL26-25-2 RG	TL26-25-2SF RG	
RIGID + VALVE	1 Piece	12.5 ft. (3.8m)	TL26V-12-R RG	TL26V-12-RSF RG	7/8" x 14RH power cable con- nections
		25 ft. (7.6m)	TL26V-25-R RG	TL26V-25-RSF RG	
	2 Piece	12.5 ft. (3.8m)	TL26V-12-2 RG	TL26V-12-2SF RG	
		25 ft. (7.6m)	TL26V-25-2 RG	TL26V-25-2SF RG	

- High amperage torch with physical size of 17 Series
- Larger hardened brass head insert allows 200 amp capacity



APPLICATIONS:

Construction companies, shipyards, job shops, field installers, and any application requiring a high amperage torch when a water cooler is not practical.

UPGRADE OPTIONS

CK26

GAS COOLED | SAME AS CK210

200 amp ACHF or DCSP @ 100%

3 Series Head Accessories

- High amperage, gas-cooled torch
Great for field-work, pipeline, and extended distance welding
- Largest mass head insert Maximum cooling, longer life
- Hardened brass alloy head Reduces thread damage
- Silicon rubber insulation, heavy-duty construction
High frequency protection, longer welding time at 200 amps



TORCH UPGRADES

TL26 & TL26V | RIGID | TRIM-LINE SERIES

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
RIGID	1 Piece	12.5 ft. (3.8m)	TL26-12-R RG	TL26-12-RSF RG	8-1/8" (20.6cm)
		25 ft. (7.6m)	TL26-25-R RG	TL26-25-RSF RG	
	2 Piece	12.5 ft. (3.8m)	TL26-12-2 RG	TL26-12-2SF RG	5 oz (141gm)
		25 ft. (7.6m)	TL26-25-2 RG	TL26-25-2SF RG	
RIGID + VALVE	1 Piece	12.5 ft. (3.8m)	TL26V-12-R RG	TL26V-12-RSF RG	7/8" x 14RH power cable connections
		25 ft. (7.6m)	TL26V-25-R RG	TL26V-25-RSF RG	
	2 Piece	12.5 ft. (3.8m)	TL26V-12-2 RG	TL26V-12-2SF RG	
		25 ft. (7.6m)	TL26V-25-2 RG	TL26V-25-2SF RG	

- Smallest 200 amp torch available in the market
- High amperage torch with physical size of 17 Series
- Larger hardened brass head insert allows 200 amp capacity



APPLICATIONS:

Construction companies, shipyards, job shops, field installers, and any application requiring a high amperage torch when a water cooler is not practical.

FL150 & FL150V | FLEX-LOC

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
FL3L	1 Piece	12.5 ft. (3.8m)	FL1512	FL1512SF	8-1/2" (21.6cm)
		25 ft. (7.6m)	FL1525	FL1525SF	
FL3L + VALVE	1 Piece	12.5 ft. (3.8m)	FL1512V	FL1512VSF	7 oz (198gm)
		25 ft. (7.6m)	FL1525V	FL1525VSF	

- 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



CK26HD | 300 AMP HEAVY DUTY | RIGID

TWECO CONNECTOR (STANDARD LUG ALSO AVAILABLE)

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SPECIFICATIONS
RIGID	2 Piece	12.5 ft. (3.8m)	CKCS26V122RGGI	9-1/2" (24.1cm)
		25 ft. (7.6m)	CKCS26V252RGGI	
RIGID + VALVE	2 Piece	12.5 ft. (3.8m)	CKCS26V122FXGI	7-1/2 oz (212gm)
		25 ft. (7.6m)	CKCS26V252FXGI	

APPLICATIONS:

Designed for heavy duty applications where water-cooled torches aren't an option. The CK26 Heavy Duty torch packages allow for higher amperage capabilities by utilizing a larger gauge power cable and separate SuperFlex™ gas/argon line. Also available with Flex/Flex+Valve heads or a standard lug connector, call for ordering information



Also available with Flex/ Flex+Valve heads or a standard lug connector.

CK18



LARGEST WATER JACKET AVAILABLE;
300% MORE COOLING

WATER COOLED | SAME AS CK300
350 amp ACHF or DCSP @ 100%
3 Series Head Accessories

- Largest water-cooled head insert
Maximum cooling, longer life
- Fail-Safe™ Hose Connections Eliminates
wire ties with high-quality compression fittings
- Hardened brass alloy head Reduces thread damage
- Silicon rubber insulation, heavy duty construction
High frequency protection, longer welding time at 350 amps

CK18
350 AMP

UPGRADE OPTIONS

TORCH UPGRADES

TL18 & TL18V | RIGID | TRIM-LINE SERIES

HEAD STYLE	CABLE	CABLE LENGTH	3-PIECE VINYL #	SUPER-FLEX #	SPECIFICATIONS
RIGID	3-Piece Vinyl/ SUPER-FLEX	12.5 ft. (3.8m)	TL18-12	TL18-12SF	8" (20.3cm)
		25 ft. (7.6m)	TL18-25	TL18-25SF	5 oz (141gm)
RIGID + VALVE	3-Piece Vinyl/ SUPER-FLEX	12.5 ft. (3.8m)	TL18V-12	TL18V-12SF	7/8" x 14RH power cable connections
		25 ft. (7.6m)	TL18V-25	TL18V-25SF	

- Smallest 350 amp water-cooled torch at 100% duty cycle
- Cooler running torch allows longer life of consumables
- Same physical size as 17 Series
- Lighter weight and size equals greater productivity and less operator fatigue



350 Amps

APPLICATIONS:

High production TIG applications, aluminum boat manufacturers, job shops, any welding application where a standard 18 Series torch is too bulky.

CK510 | HEAVY DUTY

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD #	SUPER-FLEX #	SPECIFICATIONS
RIGID	3 Piece/ Super-Flex	12.5 ft. (3.8m)	CK5112	CK5112SF	9-1/4" (23.5cm)
		25 ft. (7.6m)	CK5125	CK5125SF	
RIGID + VALVE	3 Piece/ Super-Flex	12.5 ft. (3.8m)	CK5112V	CK5112VSF	6-3/4 oz (191gm)
		25 ft. (7.6m)	CK5125V	CK5125VSF	

- Most versatile water-cooled torch available
- Uses .020 inch (.5mm) up to 1/4" (6.4mm) tungsten electrodes
- Large water jacket cools torch more efficiently
- Cooler running torch allows longer life of consumables

SMALLEST 500 AMP TORCH IN THE WORLD!



500 Amps

APPLICATIONS:

High amperage welds, heavy aluminum, heavy copper, job shops requiring a versatile torch using .020" (.5mm) to 1/4" (6.4mm) tungsten.

INCREASED COOLING CAPACITY Included in every CK water-cooled torch

CK WORLDWIDE



MAX-FLO™

- Up to 4 x 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

COMPETITOR'S TORCH



CK20

WATER COOLED | SAME AS CK200

250 amp ACHF or DCSP @ 100%

2 Series Head Accessories

- Most popular water-cooled torch
Industry standard water-cooled 2 series torch
- Fail-Safe™ Hose Connections
Eliminates wire ties with high-quality compression fittings
- Hardened brass alloy head Reduces thread damage
- Silicon rubber insulation, heavy-duty construction
High frequency protection, longer welding time at 200 amps



MOST POPULAR WATER-COOLED TORCH



TORCH UPGRADES

FL230 | FLEX-LOC

HEAD STYLE	CABLE	CABLE LENGTH	TRI-FLEX #	SUPER-FLEX #	SPECIFICATIONS
FL2L	Tri-Flex/ SUPER-FLEX	12.5 ft. (3.8m)	FL2312	FL2312SF	7-3/4" (19.6cm)
		25 ft. (7.6m)	FL2325	FL2325SF	5 oz (141gm)

- 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



230 Amps



APPLICATIONS:

Cup walking on pipe root welds, welds that require a mirror to access weldment, welds requiring different tungsten sizes.

CK230 & CK230V | HEAVY DUTY

HEAD STYLE	CABLE	CABLE LENGTH	TRI-FLEX #	SUPER-FLEX #	SPECIFICATIONS
RIGID	Tri-Flex/ SUPER-FLEX	12.5 ft. (3.8m)	CK2312	CK2312SF	8-1/4" (20.9cm)
		25 ft. (7.6m)	CK2325	CK2325SF	3-3/4 oz (106gm)
RIGID + VALVE	Tri-Flex/ SUPER-FLEX	12.5 ft. (3.8m)	CK2312V	CK2312VSF	3-3/4 oz (106gm)
		25 ft. (7.6m)	CK2325V	CK2325VSF	

- Heavy duty 300 amp 100% duty cycle torch
- Larger water jacket design runs cooler giving longer life to consumables
- Fully achieve 1/8 inch tungsten electrode capability on thick aluminum joints
- Uses 20 series consumables



300 Amps

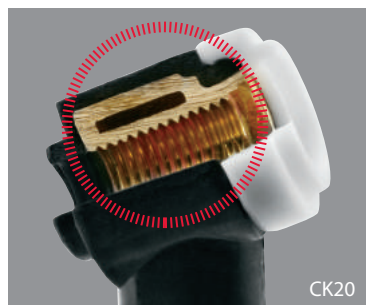


APPLICATIONS:

Aluminum boat manufacturers, motorcycle manufacturers, bicycle manufacturers, high-amperage welding applications with space restrictions.

INCREASED COOLING CAPACITY Included in every CK water-cooled torch

CK WORLDWIDE



MAX-FLO™

- Up to 4 x 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

COMPETITOR'S TORCH



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)
- Uses standard 10N Series cup and collet body, 10N "stubby" collet
- High temperature phenolic resin insulation



MT100 | GAS COOLED | COMPACT | 100 AMP

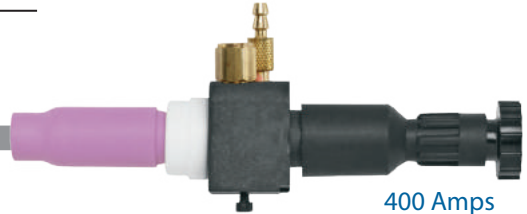
HEAD STYLE	CABLE	CABLE LENGTH	STANDARD#	SUPER-FLEX#	SPECIFICATIONS
FACE PLATE MOUNTED	1 Piece	12.5 ft. (3.8m)	MT112	MT112SF	4-1/16" (10.3cm) 5-3/4 oz (163gm)
	1 Piece	25 ft. (7.6m)	MT125	MT125SF	Machine Series Head Accessories (4 Series Collet)



100 Amps

MT400 | WATER COOLED | COMPACT | 400 AMP

HEAD STYLE	CABLE	CABLE LENGTH	STANDARD#	SUPER-FLEX#	SPECIFICATIONS
FACE PLATE MOUNTED	3 Piece	12.5 ft. (3.8m)	MT412-1	MT412SF-1	4-1/16" (10.3cm) 6-1/4 oz (177gm)
	3 Piece	25 ft. (7.6m)	MT425-1	MT425SF-1	Machine Series Head Accessories (4 Series Collet)



400 Amps

*90 Degree power cable elbow available – 90EMT300

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 | 500 AMP

HEAD STYLE	CABLE	CABLELENGTH	STANDARD#	SUPER-FLEX#	SPECIFICATIONS
BARREL STYLE	3 Piece	12.5 ft. (3.8m)	MT512-7-1	MT512SF-7-1	7" (17.8cm) 12 oz (340gm)
	3 Piece	25 ft. (7.6m)	MT525-7-1	MT525SF-7-1	1-3/8" (35mm) O.D. Barrel Machine Series Head Accessories (4 Series Collet)



500 Amps

MT500-18 | WATER COOLED | 500 AMP

HEAD STYLE	CABLE	CABLELENGTH	STANDARD#	SUPER-FLEX#	SPECIFICATIONS
BARREL STYLE	3 Piece	12.5 ft. (3.8m)	MT512-18-1	MT512SF-18-1	18" (45.7cm) 16 oz (454gm)
	3 Piece	25 ft. (7.6m)	MT525-18-1	MT525SF-18-1	1-3/8" (35mm) O.D. Barrel Machine Series Head Accessories (4 Series Collet)



500 Amps

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

COLD WIRE FEEDER

Automate the addition of filler metal with the touch of a button using the WF-5 Cold Wire Feeder. This machine works independently to provide continuous filler metal for your TIG welding needs.

- Increases productivity
- Automates adding of filler metal
- All parameters can be duplicated for consistency
- Dual groove drive roll accepts multiple wire sizes
- Accepts standard wire spool sizes
- Eliminates filler rod stub loss
- Machine cover keeps filler metal clean and uncontaminated
- Makes fully-automated, or one-handed, TIG welding possible

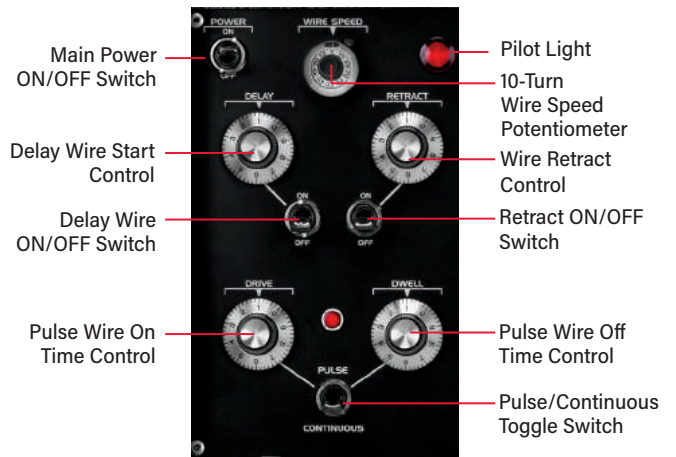
Note: For complete installation of a Cold Wire Feed system you need both the Cold Wire Feeder and a Wire Feed Application method, such as those listed below, in conjunction with your welding machine. The Cold Wire Feeder works independently and needs its own power source.

WF5 COLD WIRE FEED UNIT | CK EXCLUSIVE

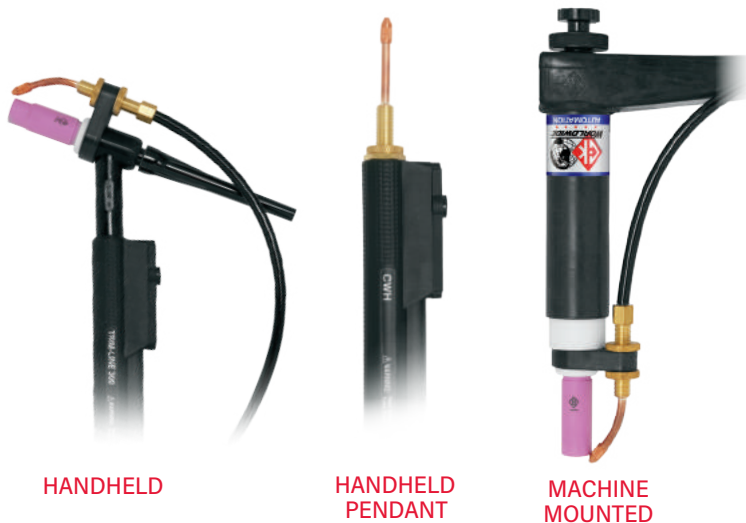
APPLICATION	DRIVE ROLL	WIRE SIZE	ORDER #
HAND HELD/ MACHINE MOUNTED	30-45DR	.030" - .045" (.8mm-1.1mm)	WF5-035
	30-45DR	.030" - .045" (.8mm-1.1mm)	WF5-045
	45-564DR	.045" - 1/16" (1.1mm-1.6mm)	WF5-116



WF-5 FRONT PANEL CONTROLS



WIRE FEED APPLICATIONS



HANDHELD

HANDHELD PENDANT

MACHINE MOUNTED

WF-5 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. (24.5kg)
- Filler Wire Spool Size 12" (30.5cm)
- Filler Wire Sizes023" (.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 Timecontinuously variable

MICRO TORCH

The Micro Torch is the smallest most versatile TIG torch on the market! With three angular heads this torch allows multiple options for narrow applications where precision is needed and space is limited. This torch package comes complete with an AK-MR accessory kit and tungsten stick-out gauge.



Replaceable head!

MR70 | AIR COOLED 70AMP

HEAD STYLE	CABLE	CABLE LENGTH	SUPER-FLEX #
RIGID	1 Piece SUPER-FLEX	12.5 ft. (3.8m)	MR712SF
		25 ft. (7.6m)	MR725SF

MR140 | WATER COOLED 140AMP

HEAD STYLE	CABLE	CABLE LENGTH	SUPER-FLEX #
RIGID	3 Piece SUPER-FLEX	12.5 ft. (3.8m)	MR1412SF
		25 ft. (7.6m)	MR1425SF

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)

- 45°, 90° and 180° interchangeable heads
- .040" (1.0mm), 1/16" (1.6mm) and 3/32" (2.4mm) collets
- 2 Clear cups
- 1 Alumina cup
- 3 Pieces of tungsten (3 different diameters)
- Tungsten installs easily with tungsten gauge and wrench

MICRO TORCH ACCESSORIES

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



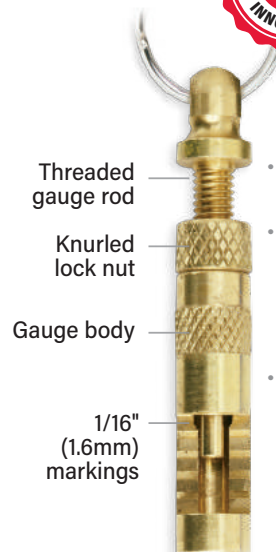
Replacement Parts Accessory Kit available

MR70 & MR140 PARTS

DESCRIPTION	ORDER #	DESCRIPTION	ORDER #	DESCRIPTION	ORDER #
Head 90°	MR90H	Collet .040" (1.0mm)	MR040C	Cup Alumina	MR4A
Head 45°	MR45H	Collet 1/16" (1.6mm)	MR116C	Cup Clear	MR4P
Head 180°	MR180H	Collet 3/32" (2.4mm)	MR332C	Handle Bushing	MRHB

TUNGSTEN | 2% CERATED

DIAMETER	DIAMETER	REPLACEMENT PART #	ACTUAL SIZE PHOTO	SPECIFICATIONS
.040"	1.0mm	T0409S20GC2		LENGTH 0.9" (22.9mm)
1/16"	1.6mm	T1169S20GC2		GRIND 20°
3/32"	2.4mm	T3329S20GC2		QTY. 5/pkg.



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

GAS HOSE CK EXCLUSIVE

Reinforced clear vinyl 1/4" (6.4mm) inside diameter hose can be ordered in multiple lengths from 12-1/2' (3.8m) to 100' (30.5m) with fittings and as a bulk 300' (91.4m) bulk reel without fittings.

REINFORCED GAS HOSE | 1/4" (6.4mm)

FITTINGS	LENGTH*	INSIDE DIAMETER	ORDER#
5/8"-18RH MALE BOTH ENDS	12-1/2 ft. (3.8m)	1/4" (6.4mm)	ARH-12
	25 ft. (7.6m)	1/4" (6.4mm)	ARH-25
	50 ft. (15.2m)	1/4" (6.4mm)	ARH-50
	75 ft. (22.9m)	1/4" (6.4mm)	ARH-75
	100 ft. (30.5m)	1/4" (6.4mm)	ARH-100
BULK NO FITTINGS	300 ft. (91.4m)	1/4" (6.4mm)	ARH-BULK*

*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.

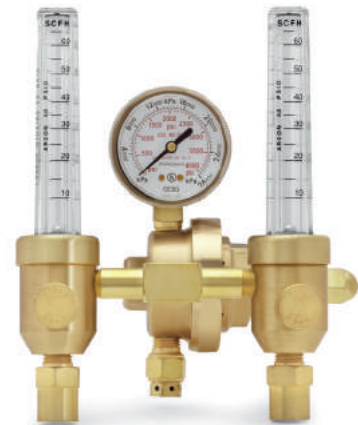
191AR-60 | SINGLE

- Regulator/flowmeter combination in one compact unit
- Ideal for applications where dependability is needed
- Regulator is preset at 50PSIG
- Machined brass body and housing cap
- Cover tube contains overpressure protection



196AR-60 | DOUBLE

- 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



MAGNETIC TORCH HOLDER

MTH-15 | HOLDER

Keep your torch and consumables safe from drops or falls!

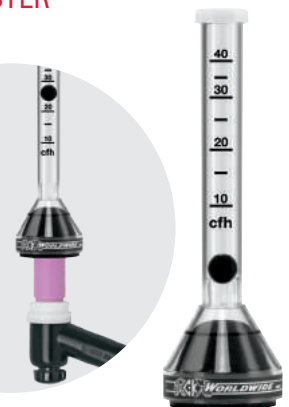
- Attaches vertically or horizontally to fit your needs
- Magnetic base for easy attachment and strong hold
- Protects your torch and consumables



GAS FLOW TESTER

CK-GFT | TESTER

Use the CK-GFT to quickly and easily check your flow rate AT THE TORCH NOZZLE!



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



STANDARD		GAS LENS		LARGE DIAMETER	
2S4	(13N08SC)	2SG4	(53N58SC)	3SG6LD	(57N75SC)
2S5	(13N09SC)	2SG5	(53N59SC)	3SG8LD	(57N74SC)
2S6	(13N10SC)	2SG6	(53N60SC)	3SG10LD	(53N88SC)
2S7	(13N11SC)	2SG7	(53N61SC)	3SG12LD	(53N87SC)
2S8	(13N12SC)	2SG8	(53N61SSC)		
2S10	(13N13SC)				

SERIES 3 SUPER CUPS

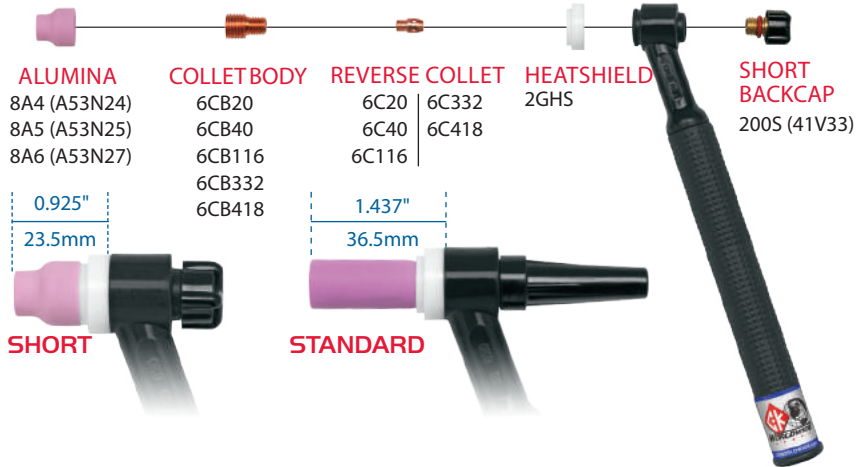
TORCH MODELS 17, 18, 26



STANDARD		GAS LENS		LARGE DIAMETER	
3S4	(10N50SC)	3SG4	(54N18SC)	3SG6LD	(57N75SC)
3S5	(10N49SC)	3SG5	(54N17SC)	3SG8LD	(57N74SC)
3S6	(10N48SC)	3SG6	(54N16SC)	3SG10LD	(53N88SC)
3S7	(10N47SC)	3SG7	(54N15SC)	3SG12LD	(53N87SC)
3S8	(10N46SC)	3SG8	(54N14SC)		
3S10	(10N45SC)				
3S12	(10N44SC)				

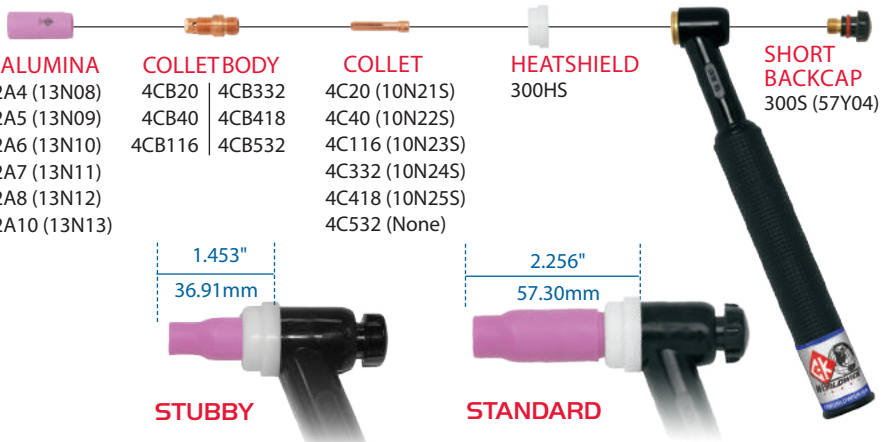
SERIES 2 STUBBY CONSUMABLES

- Shortens front end of torch to access hard to reach weld joints
- Uses 24 Series nozzles
- Reduces overall length by 1/2 inch (12.8 mm)
- Use with short back cap for smallest configuration



SERIES 3 STUBBY CONSUMABLES

- Shortens front end of torch to access hard to reach weld joints
- Uses 13N Series nozzles
- Reduces overall length by 3/4 inch (19.2mm)
- Use with short back cap for smallest configuration
- Also available in our Gas Saver™ kit design, see page 21



REMOTE AMPERAGE CONTROL CK EXCLUSIVE

- Available in either Steady-Grip™ rotary, linear slide, or spring-loaded wheel configurations
- Fits most makes and models of TIG power supplies
- Controls contactor on / off, gas solenoids and full range current output
- Available with a hook and loop strap or built into the torch handle

CONTACT CK FOR ORDER NUMBERS



STEADY-GRIP™
Hook and Loop Straps



ROTARY
Hook & Loop Straps



LINEAR
Built-In - Handle
(For CK torches)

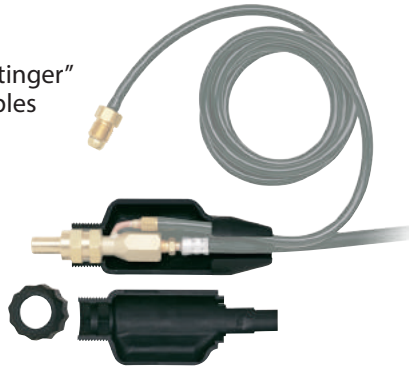


WHEEL
Hook & Loop Straps

SAFE-LOC CONNECTORS

CK EXCLUSIVE

- Efficient and safe way to extend power cables
- All electrical connections are insulated with a rugged poly-resin clamshell
- Tweco, Dinse or Cam-Loc twist lock fittings are available
- Available for gas-cooled or water-cooled torches
- Eliminate using a hazardous "stinger" electrode holder to extend cables
- Safely extend cables up to an overall length of 100' (30.48m)



ORDER # SL-HB
Clamshell Only



CONNECTORS | WATER-COOLED

TORCHES	DESCRIPTION	PART #
CK18, CK20	Tweco for water-cooled cables	SLWHAT-T
	Dinse 35 for water-cooled cables	SLWHAT-35

CONNECTORS | GAS-COOLED

TORCHES	DESCRIPTION	PART #
CK9, CK17	Tweco for water-cooled cables	SL-2
	Dinse 35 for water-cooled cables	SL2-35
CK150, TL210	Tweco for water-cooled cables	SL-5
	Dinse 35 for water-cooled cables	SL5-35
CK26, TL26	Tweco for water-cooled cables	SL-8
	Dinse 35 for water-cooled cables	SL8-35

HOSE COVERS LEATHER

CK EXCLUSIVE

These durable leather protective hose covers are abrasion, heat, flame, UV and oil resistant.

- Easy opening and closing
- Lightweight and supple, remains flexible in all climates
- No more damaged zippers or snaps



NYLON ZIPPER

Durable woven nylon with zipper fasteners.

- Abrasion resistant
- UV resistant
- Lightweight
- Zipper fastener



LEATHER HOSE COVERS

TORCHES	LENGTH*	WIDTH	INSIDE DIAMETER	ORDER#
CK9, CK17, CK20	10 ft. (3.0m)	3-3/4" (95mm)	1" (25mm)	212HCLV
	22 ft. (7.0m)	3-3/4" (95mm)	1" (25mm)	225HCLV
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

NYLON ZIPPER HOSE COVERS

TORCHES	LENGTH*	WIDTH	INSIDE DIAMETER	ORDER#
CK9, CK17, CK20	10 ft. (3.0m)	3" (76mm)	1" (25mm)	CC-3-10
	22 ft. (7.0m)	3" (76mm)	1" (25mm)	CC-3-22
CK18, CK26	10 ft. (3.0m)	4" (101mm)	1-1/4" (31mm)	CC-4-10
	22 ft. (7.0m)	4" (101mm)	1-1/4" (31mm)	CC-4-22

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 COLLETS

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



GAS SAVER™ KITS CK EXCLUSIVE

Use these conversion kits and save up to 40% of shield gas consumption plus save money on replacement parts.

- Provides better gas coverage versus standard collet bodies
- Tungsten stick-out can be up to 6 times the electrode diameter
- Clear 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



2 SERIES | STD. GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK9, CK20 (2 SERIES)	1/16" (1.6mm)	ALUMINA	D2GS116
	3/32" (2.4mm)	ALUMINA	D2GS332
	1/8" (3.2mm)	ALUMINA	D2GS418
	1/16" (1.6mm)	CLEAR	D2GS116-P
	3/32" (2.4mm)	CLEAR	D2GS332-P
	1/8" (3.2mm)	CLEAR	D2GS418-P

3 SERIES | STD. GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK17, CK18, CK26 (3 SERIES)	1/16" (1.6mm)	ALUMINA	D3GS116
	3/32" (2.4mm)	ALUMINA	D3GS332
	1/8" (3.2mm)	ALUMINA	D3GS418
	1/16" (1.6mm)	CLEAR	D3GS116-P
	3/32" (2.4mm)	CLEAR	D3GS332-P
	1/8" (3.2mm)	CLEAR	D3GS418-P

2 SERIES | LRG. DIAMETER GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK9, CK20 (2 SERIES)	1/16" (1.6mm)	ALUMINA	D2GS116LD-A
	3/32" (2.4mm)	ALUMINA	D2GS332LD-A
	1/8" (3.2mm)	ALUMINA	D2GS418LD-A
	1/16" (1.6mm)	CLEAR	D2GS116LD
	3/32" (2.4mm)	CLEAR	D2GS332LD
	1/8" (3.2mm)	CLEAR	D2GS418LD

3 SERIES | LRG. DIAMETER GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK17, CK18, CK26 (3 SERIES)	1/16" (1.6mm)	ALUMINA	D4GS116LD-A
	3/32" (2.4mm)	ALUMINA	D4GS332LD-A
	1/8" (3.2mm)	ALUMINA	D4GS418LD-A
	1/16" (1.6mm)	CLEAR	D4GS116LD
	3/32" (2.4mm)	CLEAR	D4GS332LD
	1/8" (3.2mm)	CLEAR	D4GS418LD

4 SERIES | STUBBY GAS SAVER KITS

TORCHES	TUNGSTEN	CUP TYPE	ORDER #
CK17, CK18, CK26 (3 SERIES)	1/16" (1.6mm)	ALUMINA	D4GS116
	3/32" (2.4mm)	ALUMINA	D4GS332
	1/8" (3.2mm)	ALUMINA	D4GS418
	1/16" (1.6mm)	CLEAR	D4GS116-P
	3/32" (2.4mm)	CLEAR	D4GS332-P
	1/8" (3.2mm)	CLEAR	D4GS418-P



TUNGSTEN RETAIL PACKS

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.

ISO 6848 COLOR CHART	SIZE		PART #	
	INCHES	MILLIMETERS	10 PIECE	3 PIECE P.O.P.
2% Thoriated Red	.020 x 7"	0.5 x 175mm	T0207GT2	
	.040 x 7"	1.0 x 175mm	T0407GT2	
	1/16 x 7"	1.6 x 175mm	T1167GT2	T1167GT2-3
	3/32 x 7"	2.4 x 175mm	T3327GT2	T3327GT2-3
	1/8 x 7"	3.2 x 175mm	T187GT2	T187GT2-3
AWS A5.12 EWTh-2 ISO 6848 WT20	5/32 x 7"	4.0 x 175mm	T5327GT2	
	.020 x 7"	0.5 x 175mm	T0207GZ	
	.040 x 7"	1.0 x 175mm	T0407GZ	
	1/16 x 7"	1.6 x 175mm	T1167GZ	T1167GZ-3
	3/32 x 7"	2.4 x 175mm	T3327GZ	T3327GZ-3
.8% Zirconiated White	1/8 x 7"	3.2 x 175mm	T187GZ	T187GZ-3
	5/32 x 7"	4.0 x 175mm	T5327GZ	
	.020 x 7"	0.5 x 175mm	T0207GL	
	.040 x 7"	1.0 x 175mm	T0407GL	
	1/16 x 7"	1.6 x 175mm	T1167GL	T1167GL-3
AWS A5.12 EWLa-8 ISO 6848 WZ8	3/32 x 7"	2.4 x 175mm	T3327GL	T3327GL-3
	1/8 x 7"	3.2 x 175mm	T187GL	T187GL-3
	5/32 x 7"	4.0 x 175mm	T5327GL	
	.020 x 7"	0.5 x 175mm	T0207GC2	
	.040 x 7"	1.0 x 175mm	T0407GC2	
1.5% Lanthanated Gold	1/16 x 7"	1.6 x 175mm	T1167GC2	T1167GC2-3
	3/32 x 7"	2.4 x 175mm	T3327GC2	T3327GC2-3
	1/8 x 7"	3.2 x 175mm	T187GC2	T187GC2-3
	5/32 x 7"	4.0 x 175mm	T5327GC2	
	.020 x 7"	0.5 x 175mm	T0207G	
2% Ceriated Gray	.040 x 7"	1.0 x 175mm	T0407G	
	1/16 x 7"	1.6 x 175mm	T1167G	T1167G-3
	3/32 x 7"	2.4 x 175mm	T3327G	T3327G-3
	1/8 x 7"	3.2 x 175mm	T187G	T187G-3
	5/32 x 7"	4.0 x 175mm	T5327G	
Pure Green	.020 x 7"	0.5 x 175mm	T0207GL2	
	.040 x 7"	1.0 x 175mm	T0407GL2	
	1/16 x 7"	1.6 x 175mm	T1167GL2	T1167GL2-3
	3/32 x 7"	2.4 x 175mm	T3327GL2	T3327GL2-3
	1/8 x 7"	3.2 x 175mm	T187GL2	T187GL2-3
2% Lanthanated Blue	5/32 x 7"	4.0 x 175mm	T5327GL2	
	.020 x 7"	0.5 x 175mm	T0207GTM	
	.040 x 7"	1.0 x 175mm	T0407GTM	
	1/16 x 7"	1.6 x 175mm	T1167GTM	T1167GTM-3
	3/32 x 7"	2.4 x 175mm	T3327GTM	T3327GTM-3
AWS A5.12 EWG ISO 6848	1/8 x 7"	3.2 x 175mm	T187GTM	T187GTM-3
	5/32 x 7"	4.0 x 175mm	T5327GTM	

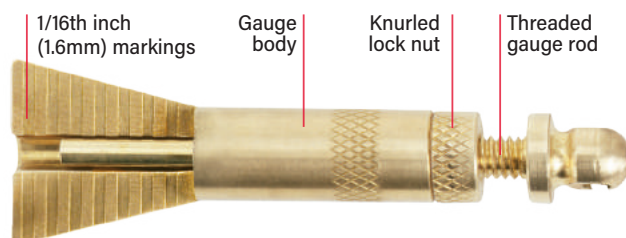
TIG welding electrodes usually contain small quantities of metallic oxides, which can offer the following benefits:

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



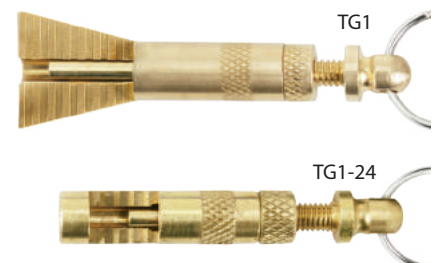
TUNGSTEN STICK OUT GAUGE

- 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



STICK-OUT GAUGE

DESCRIPTION	ORDER #	DETAILS
Standard Gauge	TG1	Includes convenient key ring
Small Tungsten Gauge	TG1-24	



TUNGSTEN ELECTRODE GRINDER

The Turbo-Sharp X enclosed electrode grinder minimizes dust exposure to both the user and the environment while delivering consistent tip geometry.

- Standard head for diameters:
.040" (1.0mm) 1/16" (1.6mm)
3/32" (2.4mm) 1/8" (3.2mm)
- Angles adjustable from 20°– 60°
- Eliminate grinding wheel contamination

TURBO-SHARP® X

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.

SPECIFICATIONS

VOLTAGE	120V AC
SINGLEPHASE	60 Hz
POWER	710 W
AMPS	6.45
NOLOADSPEED	34,000 RPM
WEIGHT	4.1 pounds
	1,860 grams
SHIPWEIGHT	10.1 pounds
	4,581 grams
WARRANTY	2 years

230V available, contact us for more information



CONSISTENT RESULTS:
Stepless grinding angles 20°– 60°



Both sides coated with diamond-powder

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

HOLDSSHORTERLENGHTHUNGSTEN

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



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

TURBO-SHARP X | ORDERING INFO

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



Tungsten countertop point of purchase display

Form 116 Technical Guide with detailed TIG welding information



Gas Saver point of purchase display



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