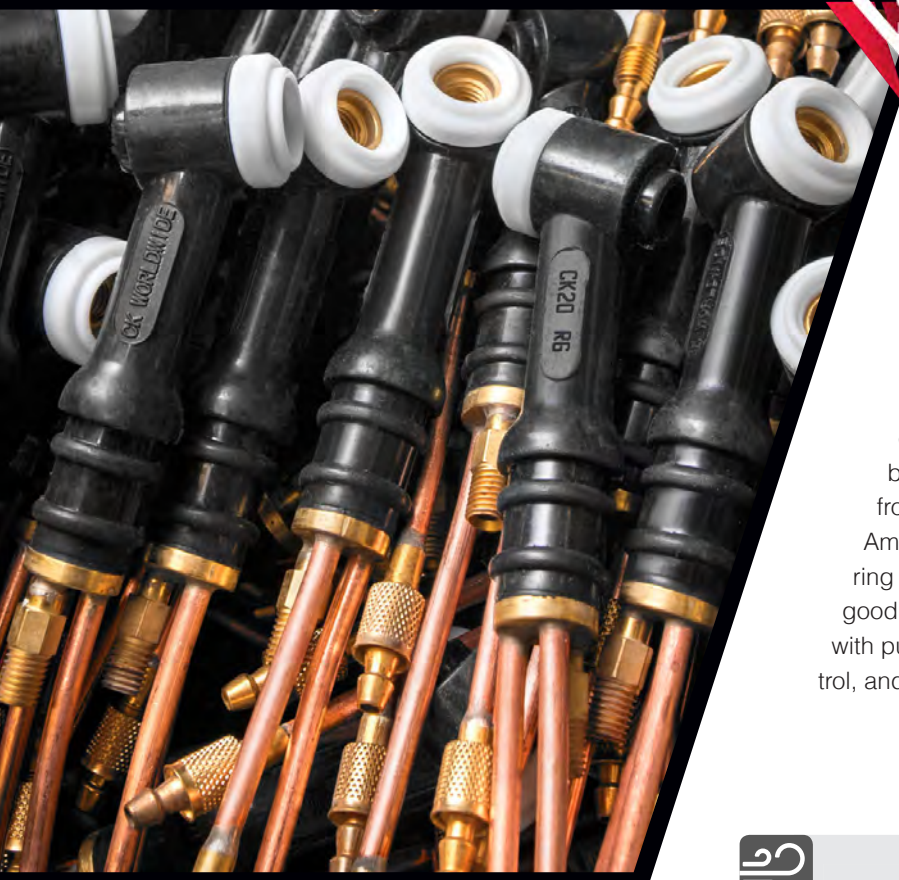


DIAMOND
SERIES

ckworldwide.com



American Innovation. German Precision.



The Diamond Series is the result of a true collaboration between CK Worldwide and EWS. Two companies brought together by a shared commitment to precision, performance, and the professionals behind the torch. Designed side by side from the ground up, this line brings together American innovation and German manufacturing to create a TIG torch system that feels as good as it performs. Every detail was chosen with purpose, to deliver more comfort, more control, and more confidence with every weld.



AIR COOLED
35 %DC

Torch (model)	10 min DC (in A)	10 min AC (in A)	DIN DC (in A)	DIN AC (in A)	WØ (in mm)
EDS9	125	100	110	80	0.5 - 3.2
EDS17	150	115	140	100	0.5 - 4.0
EDS26	200	150	180	130	0.5 - 4.0

H_2O COOLED
100 %DC

Torch (model)	10 min DC (in A)	10 min AC (in A)	DIN DC (in A)	DIN AC (in A)	WØ (in mm)
EDS20	250	180	200	145	0.5 - 3.2
EDS230	300	240	240	190	0.5 - 3.2
EDS18	350	250	320	230	0.5 - 4.0

The DIN amperages according to DIN EN 60974-7.



CK WORLDWIDE | EWS EUROPEAN WELDING SERVICE

Engineered & Manufactured in  & 

DESIGNED AROUND YOU

Engineered to give you greater balance, control, and confidence every time you strike an arc.



MAX-FLO™ Cooling

Reducing downtime and keeping torches running longer



Configurable Switch Options

Single-button, dual-button, Lever-switch or up/down



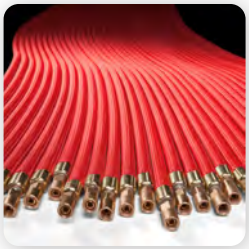


Multiple Handle Versions

Short or long gives you maximum flexibility

Superflex™ Cables

Innovative design replaces heavy, stiff cables to boost mobility, reduce fatigue, and increase productivity





CK leather protection

Protects your cables for maximum durability and longevity



DIAMOND SERIES

Modularity
Rigid or flexible torch heads. Multiple switch options. Short or long handle. Individual cable package length. Air and water cooled versions available.

Features
Plug-in switch modules. No soldering. Torch head rotation angle adjustable without screws. Proven SuperFlex™ cable leather protection cover.

Efficiency
One universal handle for all torch configurations. Uses standard tungsten electrodes and consumables. All connector types available.

Engineered for Europe. Built by EWS.

American innovation meets German manufacturing in the new European Diamond Series. This modular TIG torch platform is the result of a true collaboration between CK Worldwide and EWS. The European Diamond Series is a purpose-built system for the European market, offering full compatibility with common machine connections, intuitive control, and a professional-grade modular design.

- Manufactured in Germany, supported across Europe, built at EWS in Kleve
- Available across Europe through a broad distribution network of more than 50 locations
- Fully CE-certified and compatible with European power sources

The European Diamond Series is more than just a torch system. **It is a new standard for professionals who demand performance, comfort, and control.**

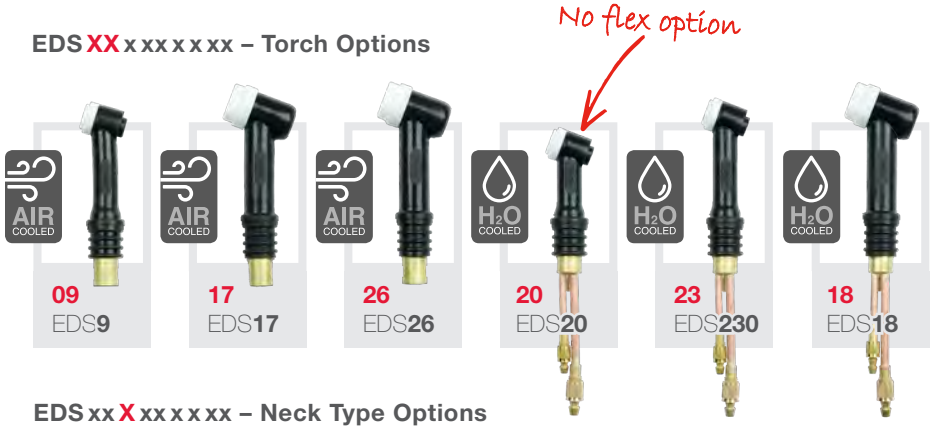
Structure of the SKU for a complete torch package

EDS	09	F	04	3	S	01
Torch abbreviation	Torch Model	Neck Type	Cable Package Length	Switch Type	Handle Size	Connector Type

i **This Example:** EDS9 complete with a flex neck, 4m cable package, up/down switch, short handle and Euro-connection

CK Worldwide European Diamond Series – Torch Options

EDS XX x xx x x xx – Torch Options



09	17	26	20	23	18
EDS9	EDS17	EDS26	EDS20	EDS230	EDS18

EDS xx X xx x x xx – Neck Type Options

R **RIGID** NECK

F **FLEX** NECK

EDS xx x XX x x xx – Cable Package Length Options



04 - 4m **08** - 8m **12** - 12m **16** - 16m **20** - 20m

>20m on request

EDS xx x xx X x xx – Switch Options



0	1	2	3
single	double	lamelle	up/down

EDS xx x xx x X xx – Handle Options



S – Short

L – Long (flex)

EDS xx x xx x x XX
Connector Options Quick List

Universal

EU 1	SK35	13mm	x	01
EU 2	SK25	9mm	x	02
UK	BSP	3/8“	x	03
US 1	Air 1	3/8“x14 RH	x	04
US 2	Air 2	7/8“x14 RH	x	05
US 3	Water	7/8“x14 LH	x	06
EU 3	Air 1	1/4“	x	07
UK 2	Water	NW5	x	08
EU 4	Gas	3/8“	x	09

Manufacturer Specific

Böhler	7pol	10
Castolin	7pol	11
CEA	6pol	12
Cebora	10pol	13
ESAB	2pol	14
ESAB	8pol	15
ESAB	x	16
ESS	5pol	17
ESS nut	5pol	18
EWM	5pol	19
EWM	8pol	20
France	2pol	21
Fronius nut	9pol	22
Fronius	9pol	23
Fronius	8pol	24
Jasic	9pol	25
Jasic	12pol	26
Kemppi	4pol	27
Kemppi	7pol	28
Lincoln	5pol	29
Lorch	5pol	30
L-TEC	5pol	31
Migatronic	7pol	32
Miller NW5	14pol	33
Miller 5/8	14pol	34
Rehm	7pol	35
Rehm	12pol	36
Rehm	19pol	37
Weco	5pol	38
Miller STH160	6pol	39
Megmeet	5pol	40
INE	10pol	41
INE	3pol	42
WEIPU	12pol	43
Tuchel	5pol	44
GYS	7pol	45
ERFI	7pol	46
Merkle TCG	5pol	47
UK 3 - Water 5/8UNF RH	x	48
Miller	14pol	49
Tuchel T03226	5pol	50
Tuchel NW5	5pol	51
EU 5 - Gas 1/4“	x	52
Böhler	8pol	53



Connection Interfaces

EWS connection interfaces are designed for maximum reliability and performance under demanding industrial conditions. Precision-fit components and rugged materials ensure leak-proof sealing, efficient current transmission, and stable fluid flow even under thermal stress and mechanical strain.



SK35 - 13mm

Power Connections

Design
Flexible, braided copper conductors housed in robust, low-resistance interfaces. The connectors are designed for high current loads, pulse resistance, and frequent movement. Contact zones are optimized for minimal heat generation and durable mechanical locking.



SK25 - 9mm

Benefits
- High current-carrying capacity with minimal losses
- Reliable under frequent retooling and movement
- Safe and stable connection under peak loads
- Long service life, also when used with cooling systems



1/4“



M12x1



3/8“



3/8“ x 14 RH



7/8“ x 14 RH



7/8“ x 14 LH



Fronius Central



ZA ESAB

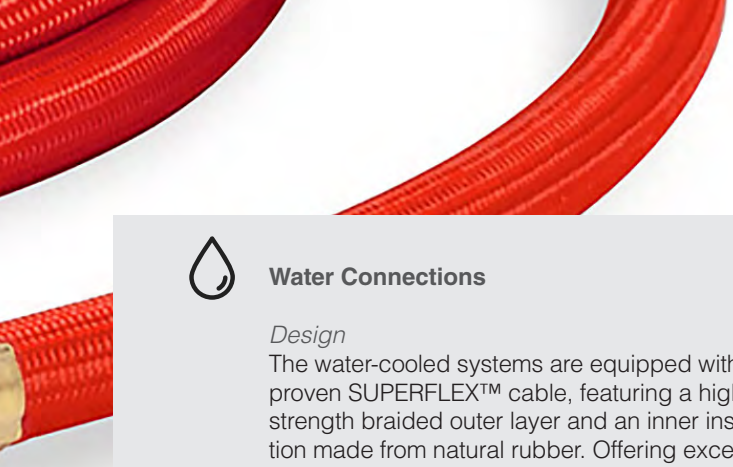


ZA-LTEC



ZA-Kemppi

All references to genuine manufacturer's equipment numbers, and/or trade names or trademarks are for identification and convenience only. The trademarks and trade names are the property of their respective owners.



Water Connections

Design

The water-cooled systems are equipped with the proven SUPERFLEX™ cable, featuring a high-strength braided outer layer and an inner insulation made from natural rubber. Offering excellent flexibility and mechanical durability, even under tight bending radii or drag chain conditions. Couplings are engineered for long-term drip resistance and remain stable under thermal and chemical stress.

Benefits

- High current-carrying capacity with low losses
- Reliable under frequent retooling and movement
- Safe connection even under peak loads
- Long service life, also in combination with cooling systems
- For optimal conductivity and material compatibility, the pH value of the coolant should be maintained between 7.0 and 8.5. We recommend using the antifreeze coolant (BA15-EVO) from Rhino Protection.



NW5



5/8“UNF LH



3/8“

Sealing Caps

All water ports come equipped with high-quality sealing caps for safe delivery and handling.



Rhino Protection Coolant



Sealing Caps

Gas Connections

Design

Precision-engineered connectors with high-tolerance brass components and specialized multi-point crimping. Sealing surfaces are designed for permanent tightness without the need for sealing tape or secondary processing. High mechanical stability supports use under fluctuating temperatures.

Benefits

- Durable, maintenance-free sealing
- Reduced microleakage and wear
- Time-saving installation without post-adjustments
- Stable performance in long-term industrial use

**Cooling Style & **

Cooling connectors will be selected and assembled based on the cooling system of the ordered torch. Air cooled torches do not need extra connectors like water cooled torches.



NW2.7



NW5



M10x1



5/8“ x 18 RH



NW2.7M



1/8“



1/4“



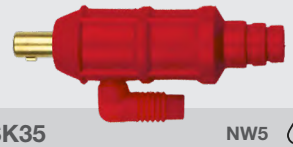
3/8“



General Connectors

EWS offers standardized control line interfaces designed for reliable signal transmission and easy integration into common automation systems. All connectors meet industrial safety standards and ensure secure, interference-free operation in demanding environments.

01



EU1 - SK35	NW5
SK35 - 13mm	NW5

02



EU2 - SK25	NW5
SK25 - 9mm	NW5

03



UK connection	3/8"
3/8"	3/8"

04



US1 - Air	x
3/8" x 14 RH	3/8" x 14 RH

05



US2 - Air	x
7/8" x 14 RH	7/8" x 14 RH

06



US3 - Water	5/8" x 18 LH
7/8" x 14 LH	5/8" x 18 RH

07



EU3 - Air	x
1/4"	1/4"

i

Icons

- Power Connection
- Water Connection
- Gas Connection

Manufacturer-Specific Interfaces

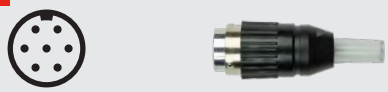
For selected OEM systems, EWS provides preconfigured control connectors tailored to proprietary interface standards. These solutions enable direct integration without adapter wiring and ensure full compatibility with the respective machine control architecture.

10



Böhler – 7pol	NW5
SK35 - 13mm	NW2.7

11



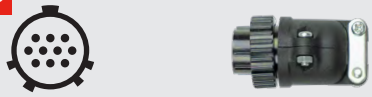
Castolin – 7pol	NW5
SK35 - 13mm	NW5

12



CEA – 6pol	NW5
SK35 - 13mm	NW5

13



Cebora – 10pol	NW5
SK35 - 13mm	1/4"

14



ESAB – 2pol	NW5
SK35 - 13mm	1/8"

15



ESAB – 8pol	NW5
SK35 - 13mm	1/8"

All references to genuine manufacturer's equipment numbers, and/or trade names or trademarks are for identification and convenience only. The trademarks and trade names are the property of their respective owners.

TIG – Connector Options

16



ESAB	NW5
ZA ESAB	ZA ESAB

17



ESS – 5pol	NW5
SK35 - 13mm	1/4"

18



ESS – 5pol	3/8"
M12x1	1/4"

19



EWM – 5pol	NW5
SK35 - 13mm	1/4"

20



EWM – 8pol	NW5
SK35 - 13mm	1/4"

21



France – 2pol	NW5
SK35 - 13mm	M12x1

22



Fronius – 9pol	3/8"
3/8"	1/4"

23



Fronius – 9pol	NW5
Fronius Central	Fronius Central

24



Fronius – 8pol	NW5
Fronius Central	Fronius Central

25



Jasic – 9pol	NW5
SK35 - 13mm	NW5

26



Jasic – 12pol	NW5
SK35 - 13mm	NW5

27



Kemppi – 4pol	3/8"
3/8"	1/4"

28



Kemppi – 7pol	NW5
1/4" MLS	1/4" MLS

29



Lincoln – 5pol	NW5
SK35 - 13mm	NW2.7

30



Lorch – 5pol	NW5
SK35 - 13mm	NW2.7

31



L-TEC – 5pol	NW5
ZA-LTEC	ZA-LTEC

32



Migatronic – 7pol	NW5
SK35 - 13mm	NW2.7M

33



Miller – 14pol	NW5
SK35 - 13mm	5/8UNF RH

34



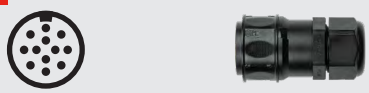
Miller – 14pol	5/8UNF LH
SK35 - 13mm	5/8UNF RH

35



Rehm – 7pol	NW5
SK35 - 13mm	NW2.7

36



Rehm – 12pol	NW5
SK35 - 13mm	NW2.7

37



Rehm – 19pol	NW5
SK35 - 13mm	NW2.7

38



Weco – 5pol	NW5
SK35 - 13mm	M10x1

i

Disclaimer

All references to genuine manufacturer's equipment numbers, and/or trade names or trademarks are for identification and convenience only. The trademarks and trade names are the property of their respective owners.

TIG – Connector Options

08



UK2 - Water	NW5
3/8"	3/8"

09



EU4 - SK35	NW5
SK35 - 13mm	3/8"

Need a connector that isn't listed?
Contact us and we'll add it to the list.

39



Miller STH160 – 6pol	x
SL2-25M - 9mm	SL2-25M

40



Megmeet – 5pol	NW5
SK35 - 13mm	9/16UNF RH

41



INE – 10p	NW5
SK35 - 13mm	1/4"

42



INE – 3p	NW5
SK35 - 13mm	1/4"

43



WEIPU – 12p	NW5
SK35 - 13mm	M12x1

44



Tuchel – 5p	NW5
SK35 - 13mm	M12x1

45



GYS – 7pol	NW5
SK35 - 13mm	NW2.7

46



ERFI – 7pol	NW5
SK35 - 13mm	NW2.7

48



UK3 - Water	NW5
3/8"	5/8UNF RH

49



Miller – 14pol	NW5
SK35 - 13mm	3/8"

50



Tuchel – 5p T03226	NW5
SK35 - 13mm	T03226

51



Tuchel – 5p	NW5
SK35 - 13mm	NW5

52



EU5 - SK35	NW5
SK35 - 13mm	1/4"

53



Böhler – 8pol	NW5
SK35 - 13mm	NW2.7

Disclaimer and Copyright Notice
EWS European Welding Service GmbH reserves the right to modify this catalogue at any time without prior notice. The company cannot be held liable for any inaccuracies or variations resulting from ongoing product improvements. Such updates will be reflected in future editions.

References to manufacturers are provided for identification and compatibility purposes only. The mentioned products are compatible with the indicated brands but may not be original parts. All trademarks and brand names remain the property of their respective owners.

Copyright © EWS European Welding Service GmbH
All rights reserved. No part of this publication may be reproduced, stored, or transmitted without prior written permission.



Official Starterkit

Each torch comes with a CK Starter Kit containing essential front-end consumables and basic spare parts. The kit provides everything needed to start welding right out of the box.

For a wider range of consumables, we offer an extensive selection of nozzles, collets, and electrodes in various materials and sizes.

More details and electrode specifications are available in the Tungsten Selector Guide (PDF). You can find it in the CK Worldwide Section of our download page. .

www.ewsgmbh.com/downloads





The contents of the CK Starter Kit vary slightly between 2 Series (9/20/230) and 3 Series (17/26/18) torches to match the respective torch size and consumable range.

Content (+ Amount)	**2 Series** Serials	**3 Series** Serials
1 x LaYZr Tungsten 2,4mm	T3327GTM	T3327GTM
1 x Backcap	41V24	57Y02
1 x Collet Wedge	2C332GS	3C332GS
1 x Collet Body	13N28	10N32
1 x #6 Cup	13N10	10N48





DIAMOND SERIES

True Cooperation

"CK Worldwide and EWS built this side by side from the drawing board to the workbench. From initial design to final assembly, this line represents a shared commitment between CK and EWS to give welders worldwide something exceptional."

Jeff Sharpe
President CK Worldwide

"The Diamond Series is the most complete expression of our work with CK Worldwide. It's a product line built by both of us, for a community we're proud to support."

Jan van der Hammen
Managing Director at EWS

CK Worldwide EDS – Air Cooled Torch Overview

AIR COOLED
WØ 0,5 – 3,2 mm
125 A DC



AIR COOLED
WØ 0,5 – 4,0 mm
150 A DC



AIR COOLED
WØ 0,5 – 4,0 mm
200 A DC



EDS9

Lightweight agility. Full-featured performance.

The Diamond Series 9 is built for welders who demand precision and control in a compact, air-cooled torch. Rated at 125 amps, it delivers smooth, consistent arc performance in a lightweight package. Perfect for fine TIG work, thin materials, and tight-access joints.

EDS17

Balanced power. Built for everyday performance.

The Diamond Series 17 hits the sweet spot between durability and comfort, delivering reliable arc performance at 150 amps in a versatile, air-cooled setup. It's your everyday torch for everything from fab shop runs to field repairs and jobsite welds.

EDS26

High output. No compromise.

The Diamond Series 26 is built for demanding TIG work, delivering 200 amps in a rugged, air-cooled body that holds up over long sessions. Designed for fabricators who need more power in hand without sacrificing feel or control.

Ordering Numbers

Torch Body	Rigid	Flex
EDS 9	**EDS9**	**EDS9F**
EDS 17	**EDS17**	**EDS17F**
EDS 26	**EDS26**	**EDS26F**

CK Worldwide EDS – Water Cooled Torch Overview



H₂O COOLED

WØ 0,5 – 3,2 mm

250 A DC

EDS20

Compact power.
Built for control.

The Diamond Series 20 delivers 250 amps of water-cooled performance in a compact, lightweight torch designed for precise handling. Built for welders who need higher amperage without the size of a heavy-duty torch, the EDS20 combines strong cooling, comfortable ergonomics, and excellent control through longer welds.



H₂O COOLED

WØ 0,5 – 3,2 mm

300 A DC

EDS230

Refined power.
Built for the long run.

The Diamond Series 230 is CK Worldwide's most advanced water-cooled TIG torch, delivering 300 amps with ultra-smooth arc performance and exceptional ergonomics. Built for welders who run high amperage all day long, the EDS230 offers serious cooling capacity without the bulk of a heavy-duty torch.



H₂O COOLED

WØ 0,5 – 4,0 mm

350 A DC

EDS18

Serious cooling.
Serious performance.

The Diamond Series 18 is a high-amperage, water-cooled TIG torch rated at 350 amps. It delivers powerful cooling performance without the added weight or bulk of traditional heavy-duty torches. Ideal for long welds on thick material in high-production environments.

Ordering Numbers

Torch Body	Rigid	Flex
EDS20	**EDS20**	-
EDS230	**EDS230**	**EDS230F**
EDS18	**EDS18**	**EDS18F**

Neck Options

All 5 torch versions are available with a rigid or flexible neck.

RIGID FLEX

EUROPEAN DIAMOND SERIES

EDS9



CK Worldwide EDS9 – aircooled TIG-Torch

Lightweight agility.
Full-featured performance.

The Diamond Series 9 is built for welders who demand precision and control in a compact, air-cooled torch. Rated at 125 amps, it delivers smooth, consistent arc performance in a lightweight package. Perfect for fine TIG work, thin materials, and tight-access joints.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS9 – Torches & Consumables



#	Torch Front Group	
1	EDS9 Torch Body incl. insulator (10)	
	rigid	**EDS9**
	flex	**EDS9F**
2	Backcap	
.1	long	**41V24**
.2	medium	**41V35**
.3	short	**41V33**
	Insulator	
10	Standard	**2GHS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø25mm (rubber, black) MOQ=100m	**RS-25**

*

Machine Connection

Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
8	Power Cable*	**EDS0917PC04SF-***	**EDS0917PC08SF-***	**EDS0917PC12SF-***	**EDS0917PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

EUROPEAN DIAMOND SERIES

EDS17



CK Worldwide EDS 17 – aircooled TIG-Torch

Balanced power.
Built for everyday performance.

The Diamond Series 17 hits the sweet spot between durability and comfort, delivering reliable arc performance at 150 amps in a versatile, air-cooled setup. It's your everyday torch for everything from fab shop runs to field repairs and jobsite welds.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS 17 – Torches & Consumables



#	Torch Front Group	
1	EDS17 Torch Body incl. insulator (15)	
	rigid	**EDS17**
	flex	**EDS17F**
2	Backcap	
.1	long	**57Y02**
.2	medium	**57Y02M**
.3	short	**57Y04**
	Insulator	
15	Standard	**300HS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø 25mm (rubber, black) MOQ = 100m	**RS-25**

*

Machine Connection

Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
8	Power Cable*	**EDS0917PC04SF-***	**EDS0917PC08SF-***	**EDS0917PC12SF-***	**EDS0917PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

EUROPEAN DIAMOND SERIES

EDS26



CK Worldwide EDS 26 – aircooled TIG-Torch

High output.
No compromise.

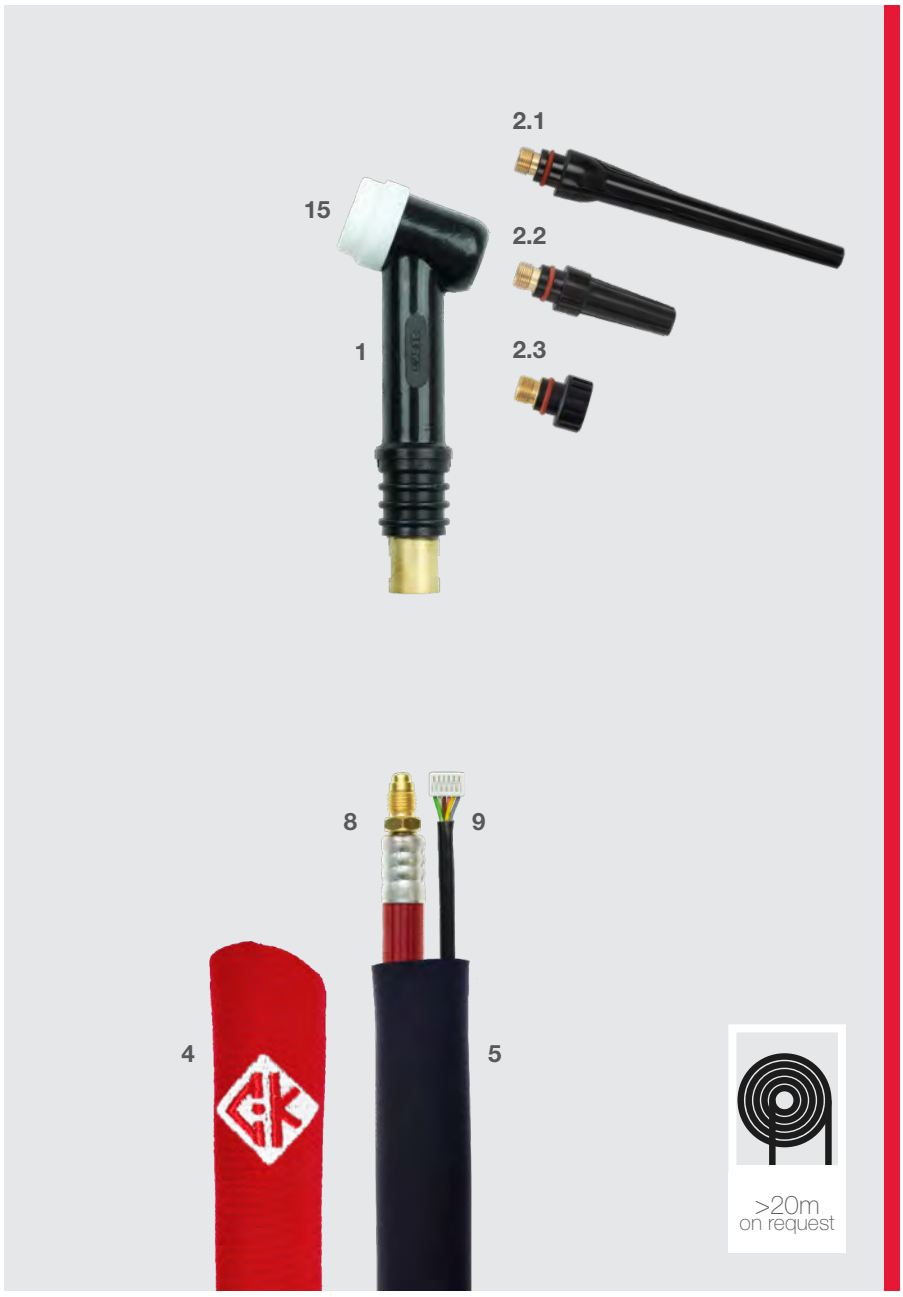
The Diamond Series 26 is built for demanding TIG work, delivering 200 amps in a rugged, air-cooled body that holds up over long sessions. Designed for fabricators who need more power in hand without sacrificing feel or control.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS 26 – Torches & Consumables



#	Torch Front Group	
1	EDS26 Torch Body incl. insulator (15)	
	rigid	**EDS26**
	flex	**EDS26F**
2	Backcap	
.1	long	**57Y02**
.2	medium	**57Y02M**
.3	short	**57Y04**
	Insulator	
15	Standard	**300HS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø 25mm (rubber, black) MOQ = 100m	**RS-25**

* **Machine Connection**
Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
8	Power Cable*	**EDS26PC04SF-***	**EDS26PC08SF-***	**EDS26PC12SF-***	**EDS26PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

EUROPEAN DIAMOND SERIES

EDS20



i Flex Handle Option

The EDS 20 is also available with a longer, flexible grip.

FLEX

CK Worldwide EDS 20 – watercooled TIG-Torch

Compact power.
Built for control.

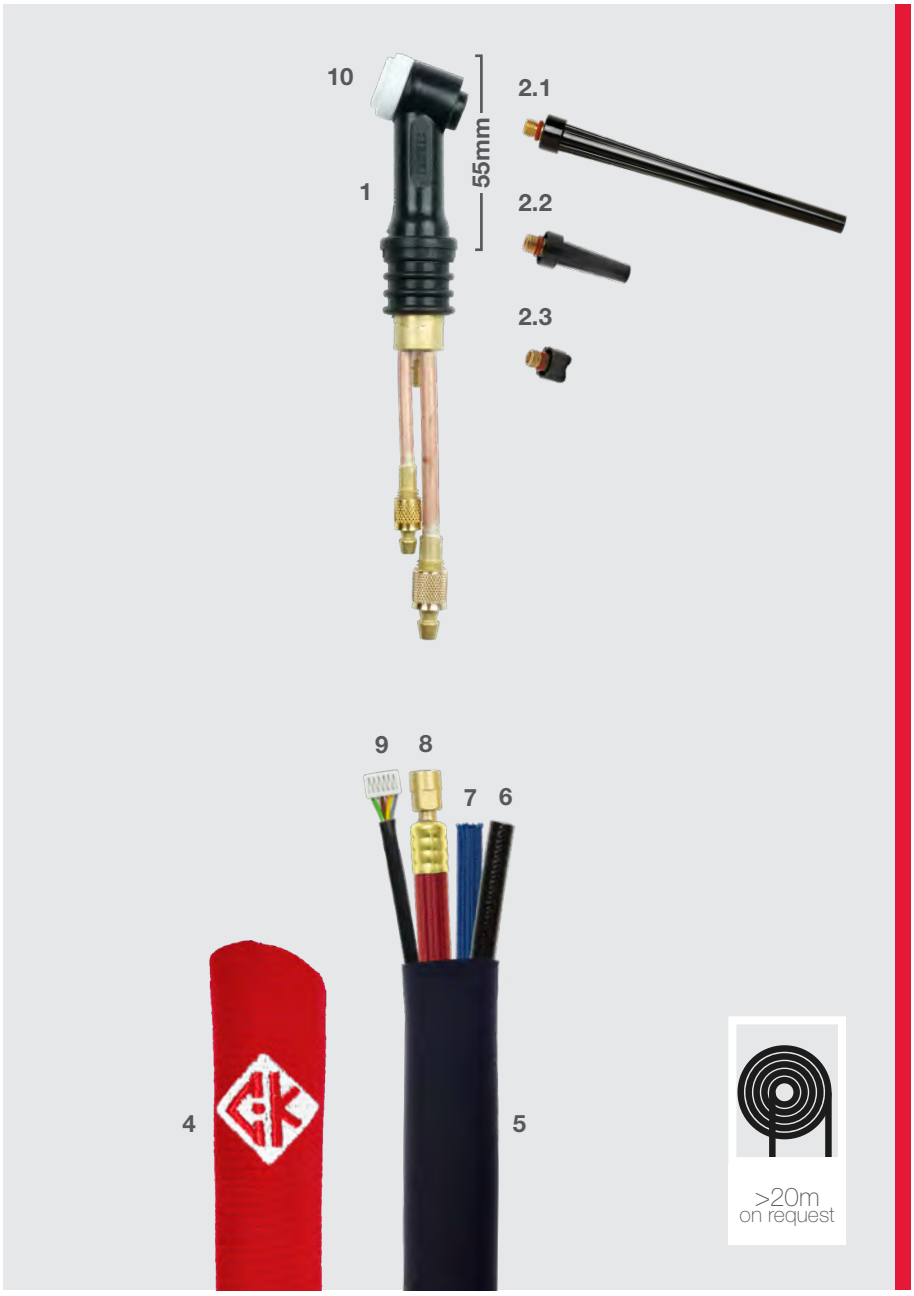
The Diamond Series 20 delivers 250 amps of water-cooled performance in a compact, lightweight torch designed for precise handling. Built for welders who need higher amperage without the size of a heavy-duty torch, the EDS20 combines strong cooling, comfortable ergonomics, and excellent control through longer welds.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS 20 – Torches & Consumables



#	**Torch Front** Group	
1	EDS20 Torch Body incl. insulator (10)	
	rigid	**EDS20**
2	Backcap	
.1	long	**41V24**
.2	medium	**41V35**
.3	short	**41V33**
	Insulator	
10	Standard	**2GHS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø 25mm (rubber, black) MOQ = 100m	**RS-25**

*

Machine Connection

Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
6	Gas Hose*	**45V09R-***	**45V10R-***	**45V10R-12-***	**45V10R-16-***
7	Water Hose*	**45V07R-SF-***	**45V08R-SF-***	**45V08R-SF-12-***	**45V08R-SF-16-***
8	Power Cable*	**EDS23PC04SF-***	**EDS23PC08SF-***	**EDS23PC12SF-***	**EDS23PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

EUROPEAN DIAMOND SERIES

EDS230



CK Worldwide EDS 230 – watercooled TIG-Torch

Refined power.
Built for the long run.

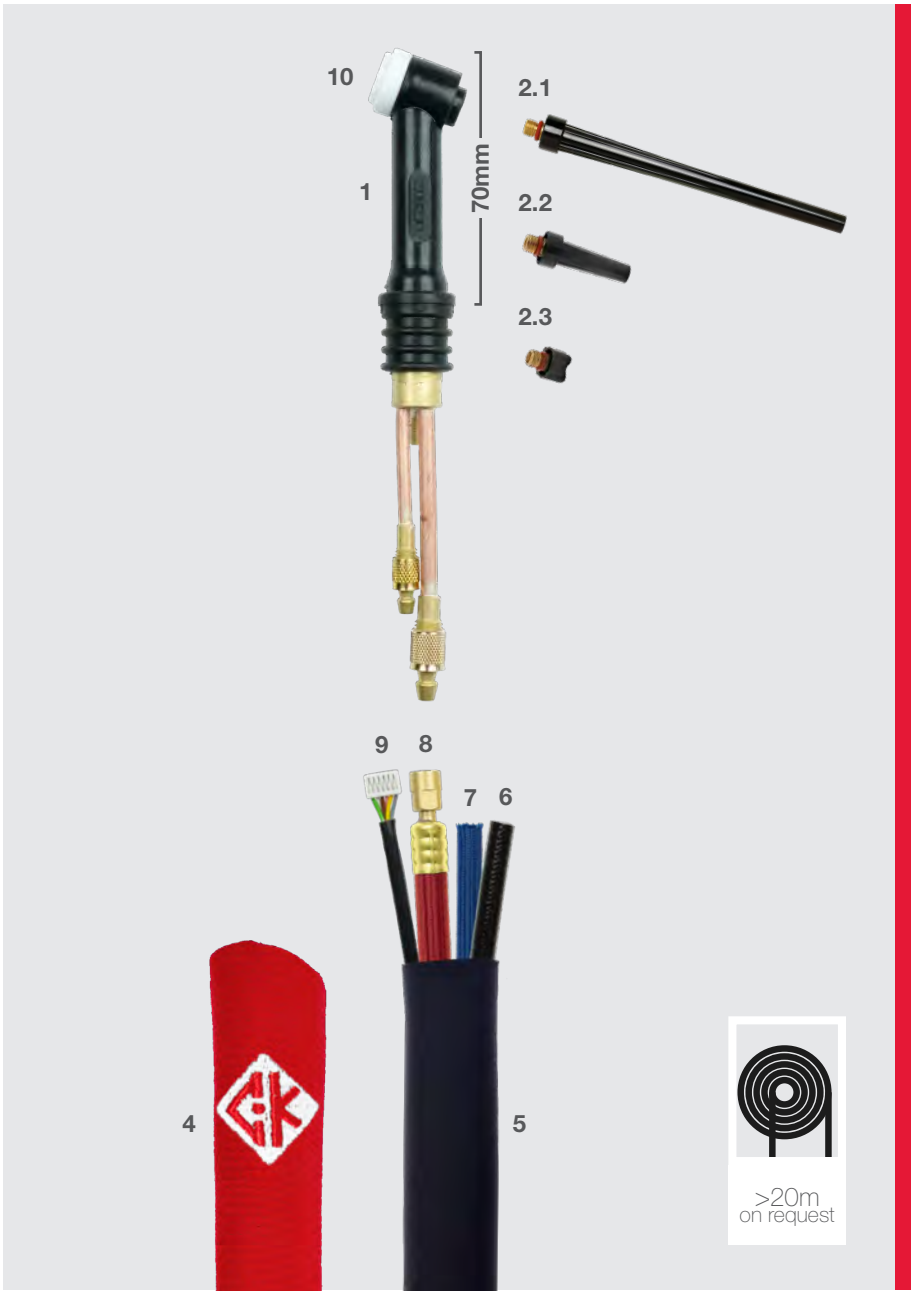
The Diamond Series 230 is CK Worldwide's most advanced water-cooled TIG torch, delivering 300 amps with ultra-smooth arc performance and exceptional ergonomics. Built for welders who run high amperage all day long, the EDS230 offers serious cooling capacity without the bulk of a heavy-duty torch.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS 230 – Torches & Consumables



#	**Torch Front** Group	
1	EDS230 Torch Body incl. insulator (10)	
	rigid	**EDS230**
	flex	**EDS230F**
2	Backcap	
.1	long	**41V24**
.2	medium	**41V35**
.3	short	**41V33**
	Insulator	
10	Standard	**2GHS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø 25mm (rubber, black) MOQ = 100m	**RS-25**

*

Machine Connection

Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
6	Gas Hose*	**45V09R-***	**45V10R-***	**45V10R-12-***	**45V10R-16-***
7	Water Hose*	**45V07R-SF-***	**45V08R-SF-***	**45V08R-SF-12-***	**45V08R-SF-16-***
8	Power Cable*	**EDS23PC04SF-***	**EDS23PC08SF-***	**EDS23PC12SF-***	**EDS23PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

EUROPEAN DIAMOND SERIES

EDS18



CK Worldwide EDS 18 – watercooled TIG-Torch

Serious cooling.
Serious performance.

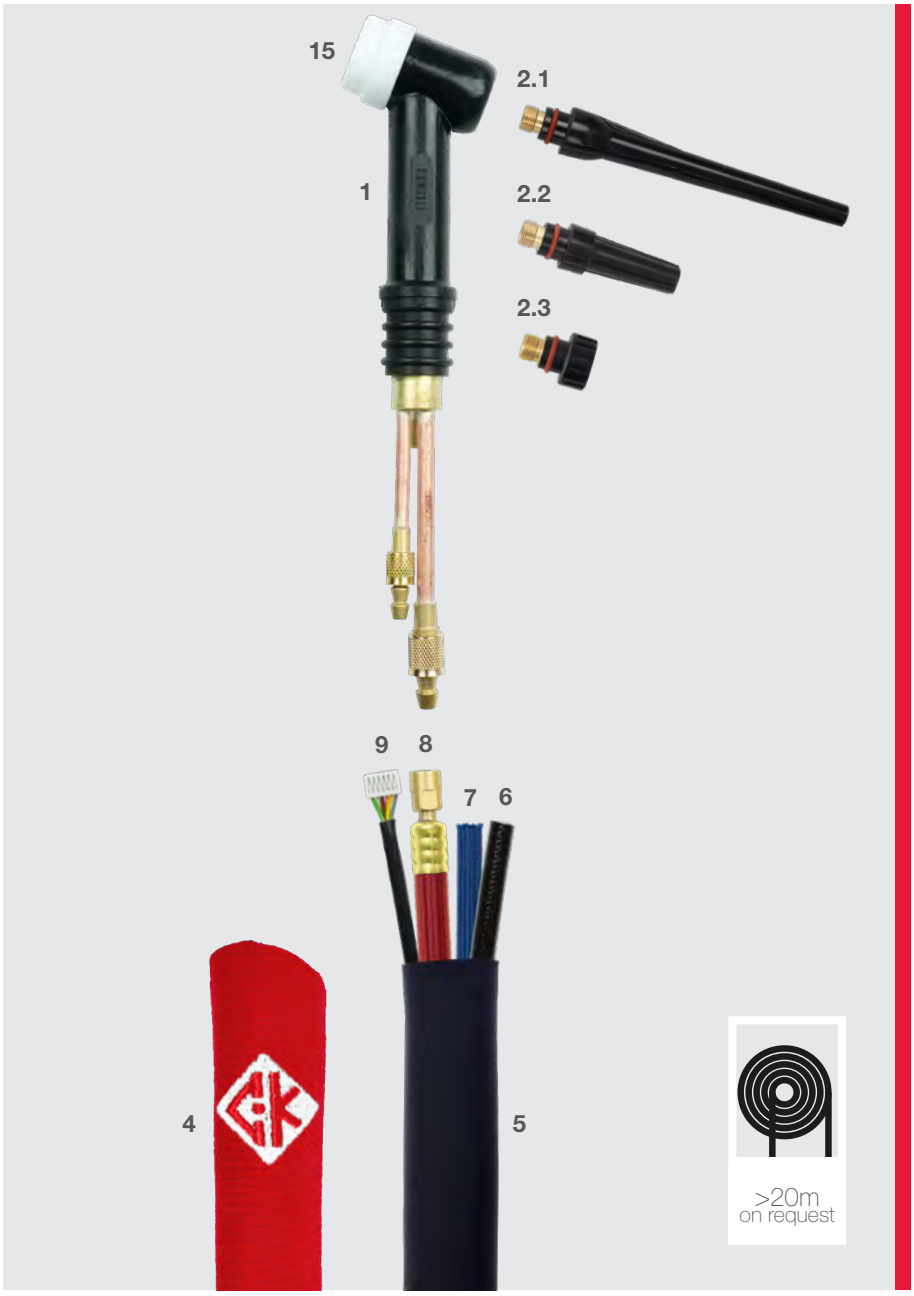
The Diamond Series 18 is a high-amperage, water-cooled TIG torch rated at 350 amps. It delivers powerful cooling performance without the added weight or bulk of traditional heavy-duty torches. Ideal for long welds on thick material in high-production environments.

The Cable
Super-Flex® cables remain flexible and easy to handle with a significant cable lifetime

The Handle
Modular System, Short and Long version available

DIN Norm
CE EN 60 974-7

CK Worldwide EDS 18 – Torches & Consumables



#	**Torch Front** Group	
1	EDS18 Torch Body incl. insulator (15)	
	rigid	**EDS18**
	flex	**EDS18F**
2	Backcap	
.1	long	**57Y02**
.2	medium	**57Y02M**
.3	short	**57Y04**
	Insulator	
15	Standard	**300HS**

	Cable Group	
	Cable cover	
4	1m piece (leather, red)	**CK-1026R**
5	Ø 25mm (rubber, black) MOQ = 100m	**RS-25**

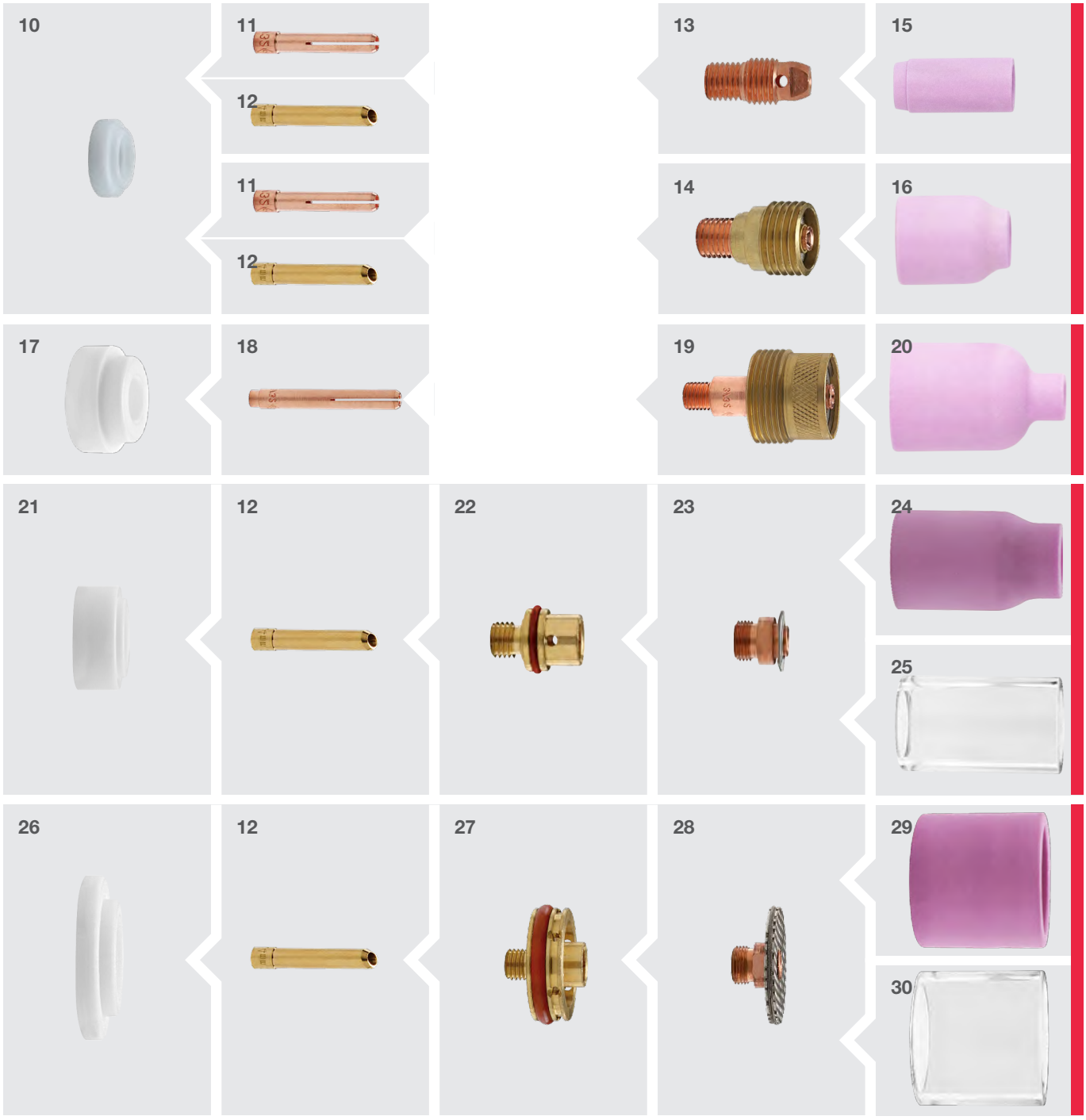
*

Machine Connection

Please contact us and specify machine connections when ordering Gas Hose, Water Hose and Power Cable serial.

	Cable Group				
#	Unit	4m	8m	12m	16m
6	Gas Hose*	**45V09R-***	**45V10R-***	**45V10R-12-***	**45V10R-16-***
7	Water Hose*	**45V07R-SF-***	**45V08R-SF-***	**45V08R-SF-12-***	**45V08R-SF-16-***
8	Power Cable*	**EDS18PC04SF-***	**EDS18PC08SF-***	**EDS18PC12SF-***	**EDS18PC16SF-***
9	Control Cable	**CK-0510614-046**	**CK-0510614-086**	**CK-0510614-126**	**CK-0510614-166**

TIG Consumables – CK 2 Series (EDS 9 / EDS 20 / EDS 230) Overview



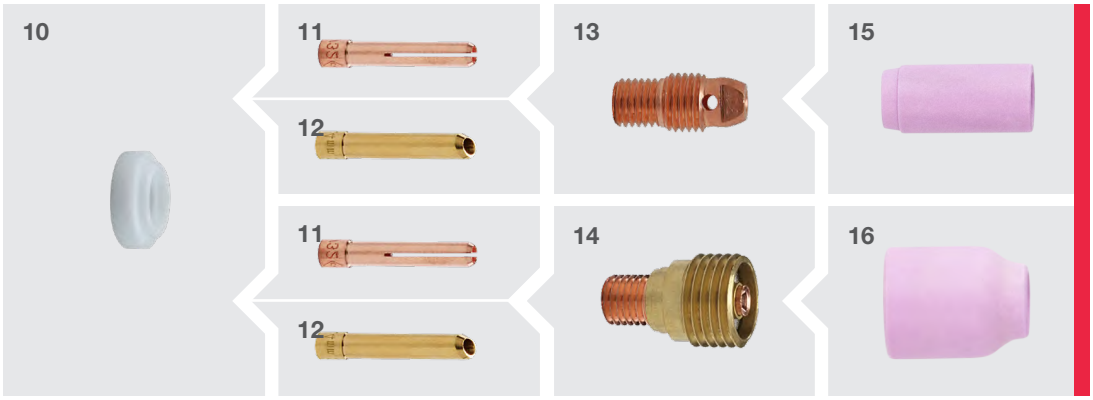
Spare Parts Group 2

TIG Consumables – CK 2 Series (EDS 9 / EDS 20 / EDS 230)

Parts

These parts come in different **materials**, **variants** and **sizes**.

For additional information see below.



Size	10 Insulator (std.)	11 Collet	12 Collet Wedge	13 Collet Body	14 Gas Lens
Ø .020" (0.5 mm)		13N20	-	13N25	45V41
Ø .040 " (1.0 mm)		13N21	2C040GS	13N26	45V42
Ø 1/16" (1.6 mm)	2GHS	13N22	2C116GS	13N27	45V43
Ø 3/32" (2.4 mm)		13N23	2C332GS	13N28	45V44
Ø 1/8" (3.2 mm)		13N24	2C418GS	13N29	45V45

Cup Sizes

Have a look at the different sizes of the same cup.



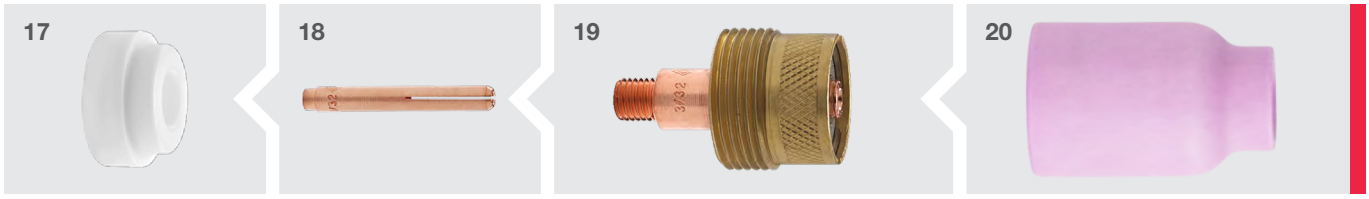
#4 #6 #12

Size		15 Cup (29,35 mm)	15 Super Cup (Sil.Nitride)	15 Cup L (48 mm)	15 Cup XL (63 mm)	16 Cup (25.40 mm)	16 Super Cup (Sil.Nitride)	16 Cup L (35 mm)	16 Cup XL (72 mm)
#3	Ø 4.75 mm	-	-	A796F70	A796F74	-	-	-	-
#4	Ø 6.35 mm	13N08	13N08SC	A796F71	A796F75	53N58	53N58SC	53N58L	53N58XL
#5	Ø 7.93 mm	13N09	13N09SC	A796F72	A796F76	53N59	53N59SC	53N59L	53N59XL
#6	Ø 9.52 mm	13N10	13N10SC	A796F73	A796F77	53N60	53N60SC	53N60L	53N60XL
#7	Ø 11.11 mm	13N11	13N11SC	-	-	53N61	53N61SC	53N61L	53N61XL
#8	Ø 12.70 mm	13N12	13N12SC	-	-	53N61S	53N61SSC	53N61SL	-
#10	Ø 15.87 mm	13N13	13N13SC	-	-	53N61S-10	-	-	-

Spare Parts Group 2

EWS European Welding Service GmbH
Dinnendahlstraße 24-26
47533 Kleve, Germany
Tel. +49 (0) 28 23 - 87 99 60
info@ewsgmbh.com
configurator.ewsgmbh.com
www.ewsgmbh.com

TIG Consumables – CK 2 Series (EDS 9 / EDS 20 / EDS 230)



Size		17 Insulator for large Gaslens	18 Collet long	19 Gas Lens L
Ø .020"	(0.5 mm)		**13N20L**	**45V0204S**
Ø .040 "	(1.0 mm)		**13N21L**	**45V0204S**
Ø 1/16"	(1.6 mm)	**2GHSLD**	**13N22L**	**45V116S**
Ø 3/32"	(2.4 mm)		**13N23L**	**45V64S**
Ø 1/8"	(3.2 mm)		**13N24L**	**995795S**

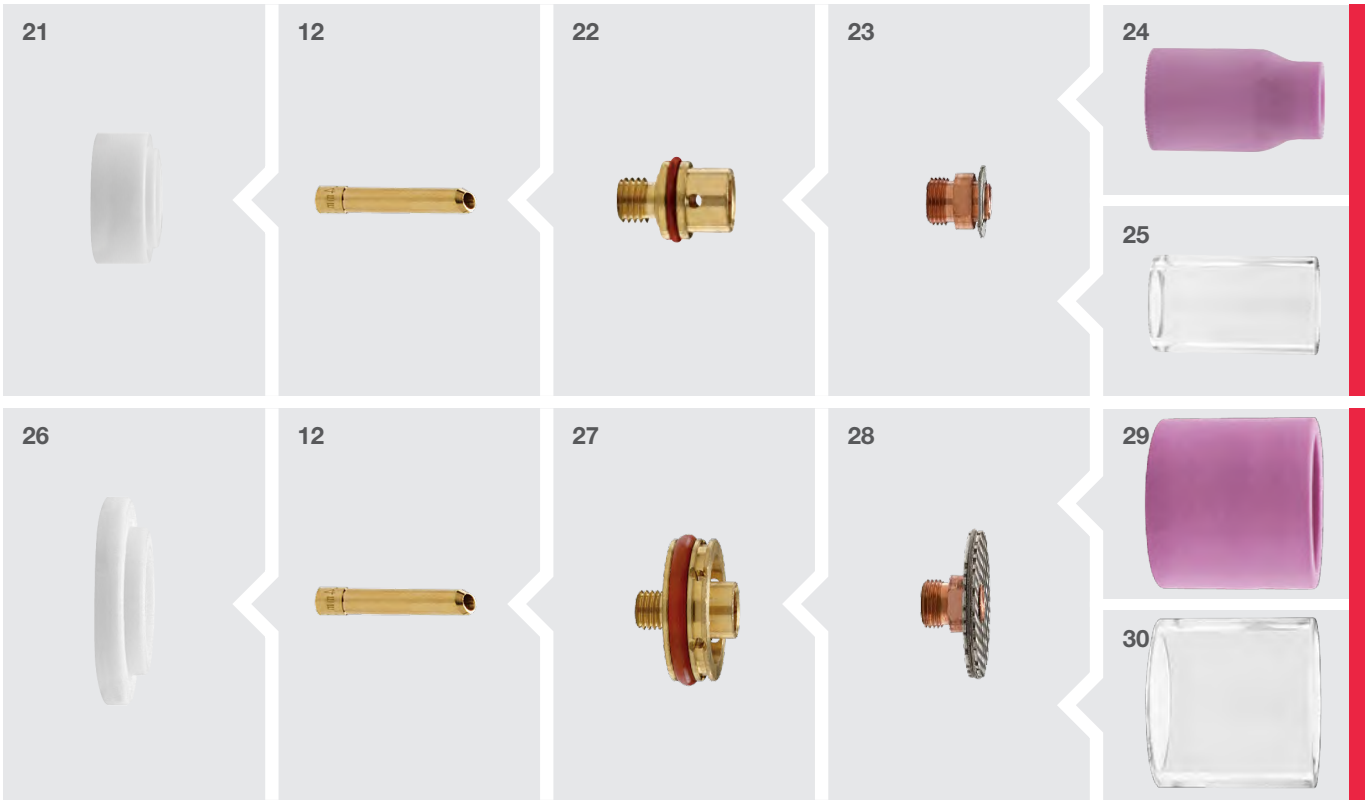
i Parts

These parts come in different **materials**, **variants** and **sizes**.

For additional information see below.

Size		20 Cup LD (47,62 mm)	20 Super Cup LD (Sil.Nitride)	20 Cup LD L (70 mm)	20 Cup LD XL (84 mm)	20 Cup LD XXL (122 mm)
#3	Ø 4.75 mm	-	-	-	-	-
#4	Ø 6.35 mm	-	-	-	-	-
#5	Ø 7.93 mm	-	-	-	-	-
#6	Ø 9.52 mm	**57N75**	**57N75SC**	**57N75L**	**57N75XL**	**57N75XXL**
#7	Ø 11.11 mm	-	-	-	-	-
#8	Ø 12.70 mm	**57N74**	**57N74SC**	**57N74L**	**57N74XL**	**57N74XXL**
#10	Ø 15.87 mm	**53N88**	**53N88SC**	**53N88L**	**53N88XL**	**53N88XXL**
#12	Ø 19.05 mm	**53N87**	**53N87SC**	**53N87L**	**53N87XL**	**53N87XXL**

TIG Consumables – CK 2 Series (EDS 9 / EDS 20 / EDS 230)





21
Insulator Gas Saver
Heatshield **2HSGS-1**



26
Insulator Gas Saver
LD **2HSGSLD**

Size	12 Collet Wedge	22 Collet Body Gas Saver	23 Tungsten Adapter with Screens	27 Collet Body Gas Saver LD	28 Tungsten Adapter with Screens
Ø .020" (0.5 mm)	-	-	-	-	-
Ø .040 " (1.0 mm)	**2C040GS**	**2CBGS-1**	**TAS040GS**	**2CBGSLD**	**TAS040GSLD**
Ø 1/16" (1.6 mm)	**2C116GS**		**TAS116GS**		**TAS116GSLD**
Ø 3/32" (2.4 mm)	**2C332GS**		**TAS332GS**		**TAS332GSLD**
Ø 1/8" (3.2 mm)	**2C418GS**		**TAS418GS**		**TAS418GSLD**

Size		30 Cup Pyrex LD (32,5 mm)	29 Cup LD (32,5 mm)	25 Cup Pyrex (32,5 mm)	24 Cup (32.50 mm)
#3	Ø 4.75 mm	-	-	-	-
#4	Ø 6.35 mm	-	-	-	**2A4GS**
#5	Ø 7.93 mm	-	-	-	**2A5GS**
#6	Ø 9.52 mm	-	-	-	**2A6GS**
#7	Ø 11.11 mm	-	-	-	**2A7GS**
#8	Ø 12.70 mm	-	-	**D2P8GS**	**2A8GS**
#10	Ø 15.87 mm	-	-	-	-
#18	Ø 28.50 mm	**2P18GSLD**	**2A18GSLD**	-	-

Spare Parts Group 2

TIG Consumables – CK 3 Series (EDS 17 / EDS 26 / EDS 18) Overview



Spare Parts Group 3

TIG Consumables – CK 3 Series (EDS 17 / EDS 26 / EDS 18)

Size		16 Collet Wedge	17 Collet	18 Collet Body	21 Gas Lens	24 Gas Lens
Ø .020"	(0.5 mm)	-	10N21	10N29	45V29	45V0204
Ø .040 "	(1.0 mm)	3C040GS	10N22	10N30	45V24	
Ø 1/16"	(1.6 mm)	3C116GS	10N23	10N31	45V25	45V116
Ø 3/32"	(2.4 mm)	3C332GS	10N24	10N32	45V26	45V64
Ø 1/8"	(3.2 mm)	3C418GS	10N25	10N28	45V27	995795
Ø 5/32"	(4.0 mm)	3C532GS	54N20	406488	45V28	45V63



15 Insulator
Standard 300HS



20 Insulator
Gas Lens 54N01



23 Insulator
LD Gas Lens 54N63

Size		19 Cup (46,83 mm)	19 Super Cup (Sil.Nitride)	19 Cup L (76 mm)	22 Cup (41,27 mm)	22 Super Cup (Sil.Nitride)	22 Cup L (76 mm)
#3	Ø 4.75 mm	-	-	-	-	-	-
#4	Ø 6.35 mm	10N50	10N50SC	10N50L	54N18	54N18SC	54N18L
#5	Ø 7.93 mm	10N49	10N49SC	10N49L	54N17	54N17SC	54N17L
#6	Ø 9.52 mm	10N48	10N48SC	10N48L	54N16	54N16SC	54N16L
#7	Ø 11.11 mm	10N47	10N47SC	10N47L	54N15	54N15SC	54N15L
#8	Ø 12.70 mm	10N46	10N46SC	-	54N14	54N14SC	54N14L
#10	Ø 15.87 mm	10N45	10N45SC	-	-	-	-
#11	Ø 17,50 mm	-	-	-	54N19L	-	-
#12	Ø 19.05 mm	10N44	10N44SC	-	-	-	-

Size		25 Cup (47,62 mm)	25 Super Cup (Sil.Nitride)	25 Cup L (70 mm)	25 Cup XL (84 mm)	25 Cup XXL (122 mm)
#3	Ø 4.75 mm	-	-	-	-	-
#4	Ø 6.35 mm	-	-	-	-	-
#5	Ø 7.93 mm	-	-	-	-	-
#6	Ø 9.52 mm	57N75	57N75SC	57N75L	57N75XL	57N75XXL
#7	Ø 11.11 mm	-	-	-	-	-
#8	Ø 12.70 mm	57N74	57N74SC	57N74L	57N74XL	57N74XXL
#10	Ø 15.87 mm	53N88	53N88SC	53N88L	53N88XL	53N88XXL
#12	Ø 19.05 mm	53N87	53N87SC	53N87L	53N87XL	53N87XXL

i Insulator

CK offers special **one piece insulators** for gas lenses and LD gas lenses.



3GHS
replaces part 15 & 20, suitable for gas lens 21.



3GHSLD
replaces part 15 & 23, suitable for gas lens 24.

Contact us for more informations.

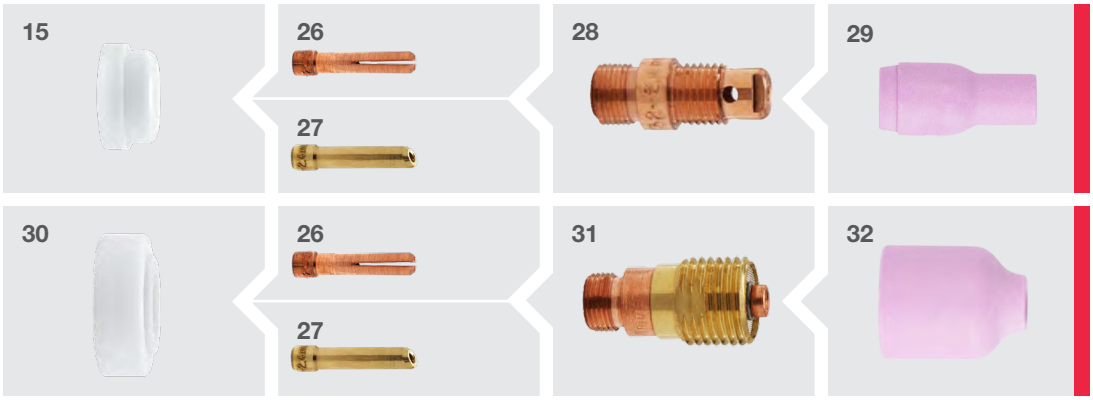
Spare Parts Group 3

TIG Consumables – CK 3 Series (EDS 17 / EDS 26 / EDS 18)

Parts

These parts come in different **materials**, **variants** and **sizes**.

For additional information see below.



Size		15 Insulator Standard	30 Insulator Stubby Gas Lens	26 Stubby Collet	27 Collet Wedge	28 Short Collet Body	31 Stubby Gas Lens
Ø .020"	(0.5 mm)	300HS	4GHS	10N21S	-	4CB20	4GL20
Ø .040 "	(1.0 mm)			10N22S	4C040GS	4CB40	4GL40
Ø 1/16"	(1.6 mm)			10N23S	4C116GS	4CB116	4GL116
Ø 3/32"	(2.4 mm)			10N24S	4C332GS	4CB332	4GL332
Ø 1/8"	(3.2 mm)			10N25S	4C418GS	4CB418	4GL418
Ø 5/32"	(4.0 mm)			4C532	4C532GS	4CB532	4GL532

Size		29 Cup (29,35 mm)	29 Super Cup (Sil.Nitride)	29 Cup L (48 mm)	29 Cup XL (63 mm)	32 Cup (25,40 mm)	32 Super Cup (Sil.Nitride)	32 Cup L (35 mm)	32 Cup XL (72 mm)
#3	Ø 4.75 mm	-	-	A796F70	A796F74	-	-	-	-
#4	Ø 6.35 mm	13N08	13N08SC	A796F71	A796F75	53N58	53N58SC	53N58L	53N58XL
#5	Ø 7.93 mm	13N09	13N09SC	A796F72	A796F76	53N59	53N59SC	53N59L	53N59XL
#6	Ø 9.52 mm	13N10	13N10SC	A796F73	A796F77	53N60	53N60SC	53N60L	53N60XL
#7	Ø 11.11 mm	13N11	13N11SC	-	-	53N61	53N61SC	53N61L	53N61XL
#8	Ø 12.70 mm	13N12	13N12SC	-	-	53N61S	53N61SSC	53N61SL	-
#10	Ø 15.87 mm	13N13	13N13SC	-	-	53N61S-10	-	-	-
#12	Ø 19.05 mm	-	-	-	-	-	-	-	-

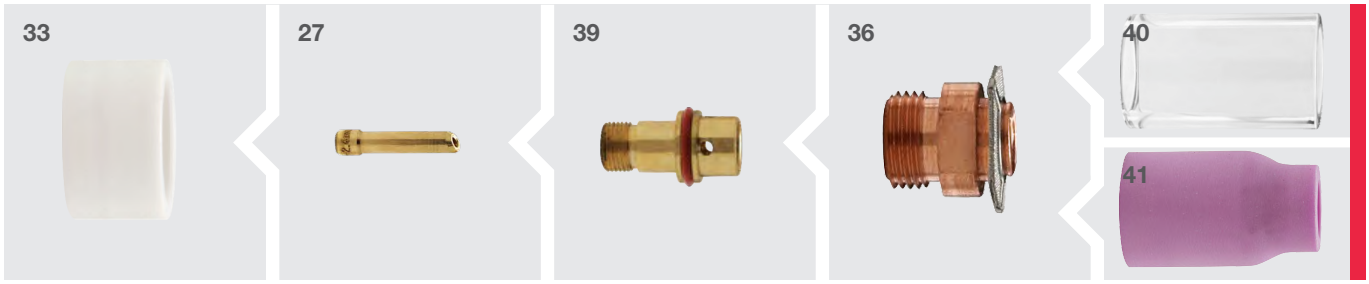
Spare Parts Group 3

TIG Consumables – CK 3 Series (EDS 17 / EDS 26 / EDS 18)



Size		33 Insulator Gas Saver	16 Collet Wedge	34 Collet Body Gas Saver	36 Tungsten Adapter with Screens	37 Cup Pyrex (47,62 mm)	38 Short Cup for Gas Saver (47,62 mm)
Ø .020"	(0.5 mm)	-	-	-	-		
Ø .040 "	(1.0 mm)		3C040GS		TAS040GS		
Ø 1/16"	(1.6 mm)		3C116GS		TAS116GS		
Ø 3/32"	(2.4 mm)	3HSGS	3C332GS	3CBGS	TAS332GS		
Ø 1/8"	(3.2 mm)		3C418GS		TAS418GS		
Ø 5/32"	(4.0 mm)		3C532GS		TAS532GS		

Size		37 Cup Pyrex (47,62 mm)	38 Short Cup for Gas Saver (47,62 mm)
#3	Ø 4.75 mm	-	-
#4	Ø 6.35 mm	-	3A4GS
#5	Ø 7.93 mm	-	3A5GS
#6	Ø 9.52 mm	-	3A6GS
#7	Ø 11.11 mm	-	3A7GS
#8	Ø 12.70 mm	D3P8GS	3A8GS
#10	Ø 15.87 mm	-	-
#12	Ø 19.05 mm	-	-



Size		33 Insulator Gas Saver	27 Collet Wedge	39 Collet Body Gas Saver	36 Tungsten Adapter with Screens	40 Cup Pyrex (32,50 mm)	41 Short Cup for Gas Saver (32,50 mm)
Ø .020"	(0.5 mm)	-	-	-	-		
Ø .040 "	(1.0 mm)		4C040GS		TAS040GS		
Ø 1/16"	(1.6 mm)		4C116GS		TAS116GS		
Ø 3/32"	(2.4 mm)	3HSGS	4C332GS	4CBGS	TAS332GS		
Ø 1/8"	(3.2 mm)		4C418GS		TAS418GS		
Ø 5/32"	(4.0 mm)		4C532GS		TAS532GS		

Size		40 Cup Pyrex (32,50 mm)	41 Short Cup for Gas Saver (32,50 mm)
#3	Ø 4.75 mm	-	-
#4	Ø 6.35 mm	-	2A4GS
#5	Ø 7.93 mm	-	2A5GS
#6	Ø 9.52 mm	-	2A6GS
#7	Ø 11.11 mm	-	2A7GS
#8	Ø 12.70 mm	D2P8GS	2A8GS
#10	Ø 15.87 mm	-	-
#12	Ø 19.05 mm	-	-

Spare Parts Group 3

TIG Consumables – CK 3 Series (EDS 17 / EDS 26 / EDS 18)



Size		27 Insulator Gas Saver LD	27 Collet Wedge	43 Collet Body Gas Saver LD	44 Tungsten Adapter with Screens
Ø .020“	(0.5 mm)	-	-	-	-
Ø .040 “	(1.0 mm)		**4C040GS**		**TAS040GSLD**
Ø 1/16“	(1.6 mm)		**4C116GS**		**TAS116GSLD**
Ø 3/32“	(2.4 mm)	**4HSGSLD**	**4C332GS**	**4CBGSLD**	**TAS332GSLD**
Ø 1/8“	(3.2 mm)		**4C418GS**		**TAS418GSLD**
Ø 5/32“	(4.0 mm)		**4C532GS**		**TAS532GSLD**

Size		45 Cup Pyrex LD (47,62 mm)	46 Cup LD GasSaver (47,62 mm)
#3	Ø 4.75 mm	-	-
#4	Ø 6.35 mm	-	-
#5	Ø 7.93 mm	-	-
#6	Ø 9.52 mm	-	-
#7	Ø 11.11 mm	-	-
#8	Ø 12.70 mm	-	-
#10	Ø 15.87 mm	-	-
#12	Ø 19.05 mm	-	**2A12GSLD**
#18	Ø 28.50 mm	**4P18GSLD**	**4A18GSLD**



GAS SAVER™ KITS

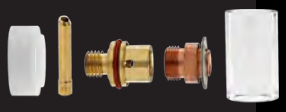
Save up to 40% of shield gas consumption

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

- Improved visibility allows odd-angle welding
- Provides better gas coverage versus standard collet bodies
- Clear Pyrex or Alumina push on nozzles available
- Less expensive replacement parts than standard gas lenses
- Fits most standard silicone rubber insulated torch bodies
- Replaceable screen adapter

Kit Includes: Heatshield, Collet, Collet Body, Tungsten Adapter Screen, and Glass or Alumina Cup

Variants



STANDARD

A versatile all round option for most TIG applications. Best suited for clean, controlled welds where a stable gas envelope and a moderate increase in stick out are needed.

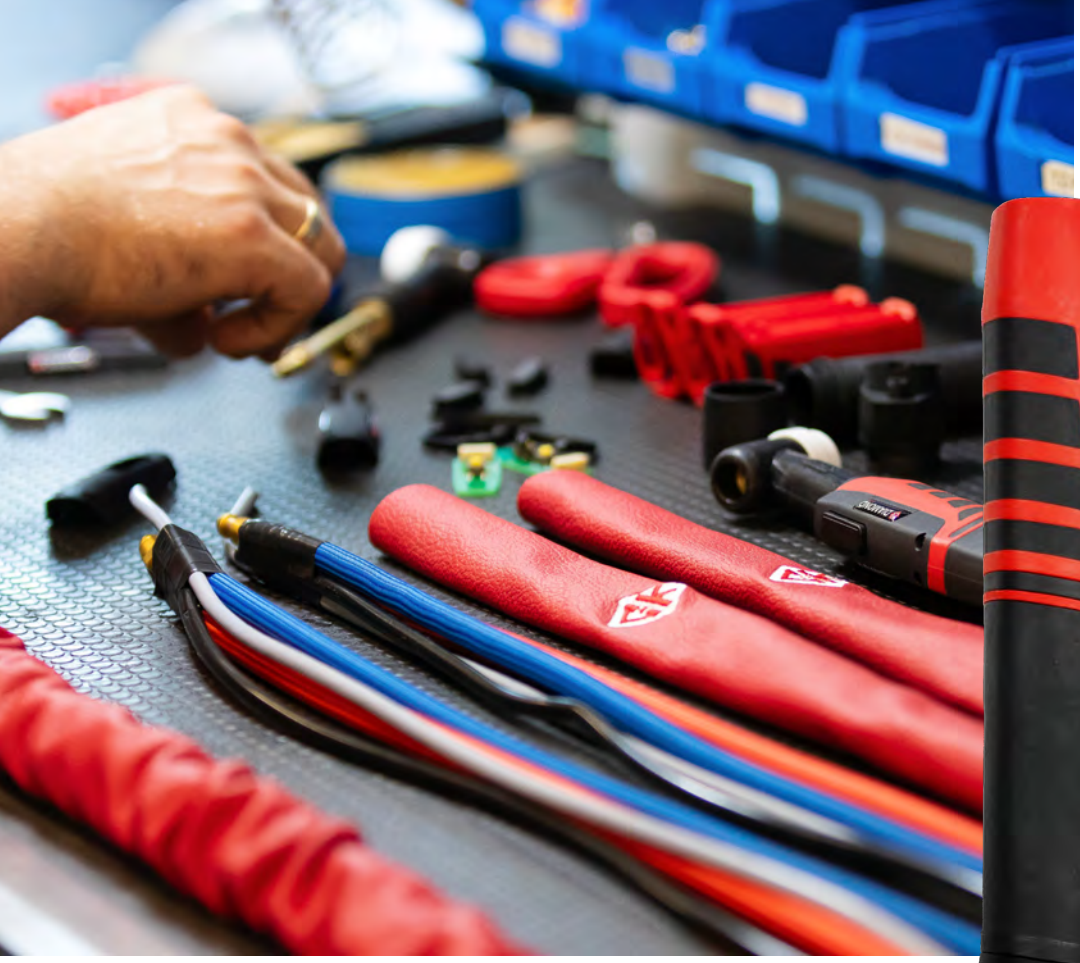
STUBBY

A compact version for tight or confined areas. Ideal when the torch must be as short as possible, for example inside fixtures, small assemblies or restricted welding positions.

LARGE

Designed for a wide and uniform gas coverage. Used for sensitive materials and larger geometries, such as titanium or stainless parts that require a highly stable shielding atmosphere.

Want to know more?
ewsgmbh.com/ckworldwide





HANDLE SERIES
CK DIAMOND

The ergonomic handle of the European Diamond Series is available in both short and long configurations, optimized for comfort and balance during extended welding tasks. The handle integrates a low-profile on/off switch, designed for high-duty cycle use with minimal operator fatigue.

Internal Construction & Modular Switch System
Inside the handle lies a modular architecture that accepts interchangeable switch modules. Depending on application needs you can install a single-button, dual-button, lever-switch or up/down module. Each module can be configured to be either used on 2T or 4T operations.

One Handle for all Torch Types
Depending on the model, the handle supports either air-cooled or water-cooled torch heads from the Diamond series.

Complete Grip Set

1 x Grip, 1 x Kink Protection, 1 x Switch + Switch Housing, 1 x Electronics, 1 x Pullstop, 4 x Screw (small), 1 x Screw

Switch Type	Short	Long (flex)
 **Single**	EDS0S	EDS0L
 **Double**	EDS1S	EDS1L
 **Lamelle**	EDS2S	EDS2L
 **Up/Down**	EDS3S	EDS3L

SINGLE 0

DOUBLE 1

LAMELLE 2

UP/DOWN 3

CK-BB-1 CK-BC-1

CK-BB-2 CK-BC-1

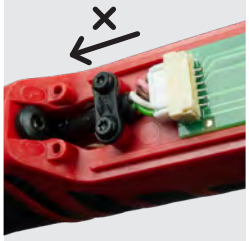
CK-BB-1 CK-BC-2

CK-BB-3 CK-BC-4

CK-BC-3

CK-PS-1 (PU = 1)

PULLSTOP



CK-PS-1 (PU = 1)



CK-PS-3



Serial: **EDSHDL**

Handle

European Diamond Series

Thanks to the modular design of this handle, repairs as well as the replacement of individual components are particularly simple and service-friendly.

CABLE CONNECTION

CK-CS-2 CK-CS-1



KINK PROTECTION

CK-CSL

FLEX



CK-CSS



ANTI-KINK FIX

CK-PS-4



CK-PS-2



i



Cable Information

The variants and serial numbers of the cable package and it's part are listed on the torch pages.

CK Worldwide

TUNGSTEN

ELECTRODES



The range of tungsten electrodes is very extensive. When it comes to choosing the right tungsten for your own welding task, you will find yourself confronted with the colour coding of the tungsten electrodes. The individual electrode types are marked with different colours. The colours stand for the respective material mix, i.e. which components other than tungsten are added to the electrodes. Depending on the welding process or material, one variant is more suitable than another.

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.

That‘s how you create the SKU

T	332	7	GT2
Tungsten	Ø Diameter	↔ Lenght	W Tungsten Type

Ø – Possible diameters

020	040	116	332	18	532
0,5 mm (0.020“)	1,0 mm (0.040“)	1,6 mm (1/16“)	2,4 mm (3/32“)	3,2 mm (1/8“)	4,0 mm (5/32“)

↔ – Lenght

7
175mm (7“)

W – Possible Tungsten Types

GL	GL2	G	GT2	GZ	GC2	GTM
1.5% Lanthanated Gold	**2% Lanthanated** Blue	**Pure** Green	**2% Thoriated** Red	**.8% Zirconiated** White	**2% Ceriated** Grey	**LaYZr™** Chartreuse

Tungsten Types

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% 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.



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% 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.



2% CERIATED (GRAY) FORMERLY ORANGE EWCe-2/WC20

Principal Oxide: 1.8–2.2% Cerium Oxide

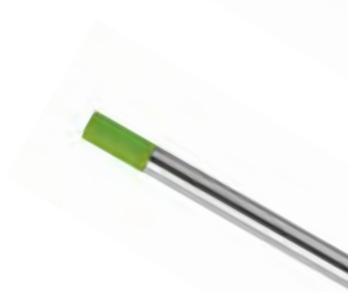
Non-Radioactive. Best for use in Alternating Current (A/C) or Direct Current (D/C) applications using inverter or transformer based constant current power sources. Good for low-alloyed steels, non corroding steels, aluminum alloys, magnesium alloys, titanium alloys, nickel alloys, copper alloys. Good 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.



LaYZr™ (CHARTREUSE) EWG

Principal Oxides: 1.5% Lanthanum, 0.08% Yttrium Oxides, 0.08% 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.



CK Worldwide

Turbo-Sharp® X

TUNGSTEN ELECTRODE GRINDER



SPECIFICATIONS – 120 V MODEL	
VOLTAGE	120V AC
SINGLE PHASE	60 Hz
POWER	710 W
AMPS	6.45
NO LOAD SPEED RPM	34,000
WEIGHT	1,9 kg
SHIP WEIGHT	4,6 kg
WARRANTY	2 years



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 diamondpowder, giving double wheel life.
- **The result:** TURBO-SHARP® X allows exact repetition of longitudinal grinding.
- **Ergonomic:** TURBO-SHARP® X is optimal with respect to weight and handling.

The Turbo-Sharp® X enclosed electrode grinder minimizes dust exposure to both the user and the environment while delivering consistent tip geometry. With infinitely adjustable grinding angles ranging from 20° to 60°, it offers maximum versatility while completely eliminating grinding wheel contamination for flawless results.



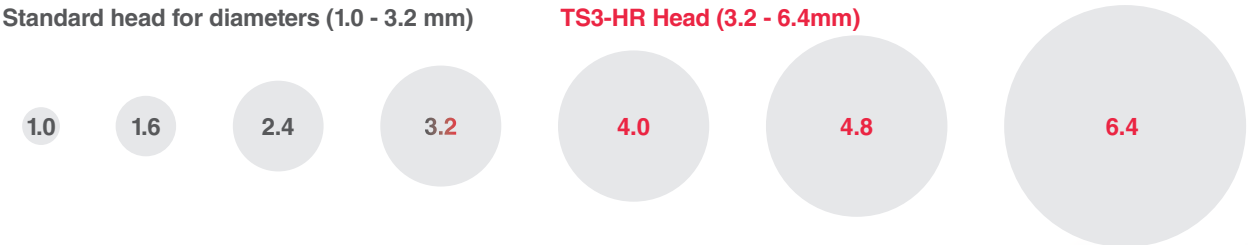
TS3-HR
Optional grinder head for larger diameter.



TS3-W
Both sides coated with diamond-powder.

Standard head for diameters (1.0 - 3.2 mm)

TS3-HR Head (3.2 - 6.4mm)



ORDERING	S/N
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

.040" (1.0mm), 1/16" (1.6mm) and 3/32" (2.4mm) collet included



SHORT TUNGSTEN KIT
FOR USE WITH TS3-HR GRINDER HEAD ONLY

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

SUPER CUPS



Super Cups withstand high-amperage and highreflective 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%

THE RIGHT NOZZLE FOR THE TOUGHEST TIG WELDING APPLICATIONS

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

TORCH MODELS 9, 20, 230



#	Standard	Gas Lens	Large Diameter
4	13N08SC	53N58SC	-
5	13N09SC	53N59SC	-
6	13N10SC	53N60SC	57N75SC
7	13N11SC	53N61SC	-
8	13N12SC	53N61SSC	57N74SC
10	13N13SC	-	53N88SC
12	-	-	53N87SC

SERIES 3

TORCH MODELS 17, 18, 26



#	Standard	Gas Lens	Large Diameter
4	10N50SC	54N18SC	-
5	10N49SC	54N17SC	-
6	10N48SC	54N16SC	57N75SC
7	10N47SC	54N15SC	-
8	10N46SC	54N14SC	57N74SC
10	10N45SC	-	53N88SC
12	10N44SC	-	53N87SC



Gas Lens and Large Diameter cups require the matching gas lens and heatshield.

Produced and distributed by

EWS European Welding Service GmbH
Dinnendahlstraße 24-26
47533 Kleve
Germany
www.ewsgmbh.com

QUESTIONS AND SUGGESTIONS
CONTACT US

+49 (0) 28 23 - 87 99 60

info@ewsgmbh.com

instagram.com/ewsgmbh