


TIGZONE®
TORCHES

TIGZONE SERIES

eVo-X

air- and watercooled TIG-Torches

**TIGZONE eVo-X – Built for Professionals.
Designed for Performance.**

Precision, durability, and simplicity. That's what defines the new TIGZONE eVo-X series.

Developed from the ground up for real-world industrial demands, the eVo-X isn't just an evolution of the proven Endurance Series, it's a revolution in usability and efficiency.

With fully cross-compatible consumables across all four torch models, an advanced, ruggedized collet system, and the introduction of flexible torch necks, the eVo-X sets a new benchmark for performance and reliability in TIG welding.

No complex spare part management. No more deformed collets. No compromises.

- Small profile torch designed for demanding applications and high amperage output
- Available for all standard welding machines
- EVO X triangle design with different switch options
- Super-Flex® cables and Super-Snake® leather remains flexible and ease to handle with a significant cable lifetime
- CE EN 60 974-7


60
%DC

Torch (model)	DC (in A)	AC (in A)	WØ (in mm)	Page
eVo13	130	100	1.0 - 4.0	8
eVo21	210	160	1.0 - 4.0	10


100
%DC

Torch (model)	DC (in A)	AC (in A)	WØ (in mm)	Page
eVo31	310	240	1.0 - 4.0	12
eVo41	410	310	1.0 - 4.0	14

All DC and AC amperages according to DIN EN 60974-7.
Underlined torches come with flex neck.

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What sets the eVo-X apart?

Unified consumable system

All consumables – gas cups, nozzles, collet bodies, and caps – are fully interchangeable across all four eVo-X torch models.

Only the X-collets are size-specific, carefully tailored to the corresponding torch size to ensure maximum mechanical strength and precision. This smart system greatly simplifies spare part management, reduces inventory complexity, and increases operational flexibility.

Innovative X-collet technology with extended clamping range:
The eVo-X series uses only two rugged collet sizes across all models.

New X-collets - Enhanced durability and service life

The new collets withstand greater mechanical and thermal stresses.



Superior performance and control

Improved heat management and gas shielding provide exceptionally stable arcs and outstanding weld results that are comparable to gas lens systems, but without the added complexity.



Flexible torch necks

For the first time, the eVo-X series offers flexible neck torch versions, allowing for precise positioning even in tight and awkward spaces.

Proven ergonomic handle and hose technology

We continue to rely on our trusted ergonomic handle from the Endurance Series combined with ultra-flexible, highly durable natural rubber Superflex hoses. This ensures fatigue-free operation and maximum reliability.



Secure, non-twisting connection:

X-collets are tensioned into the torch head via a reverse-threaded locking system instead of being pressed into the collet body by the cap.



Positive anti-rotation locking:

A machined flat in the thread prevents collet twisting or misalignment.



Extended clamping range:

Even the smaller torches can now safely and reliably clamp tungsten electrodes from 1.0 mm up to 4.0 mm offering maximum flexibility for a wide range of welding tasks.

TIGZONE eVo-X – complete torches

Structure of the SKU for a complete torch package

EX 13 04 0 01

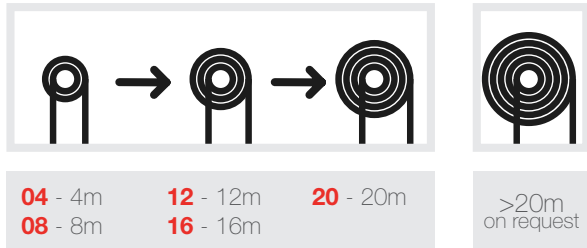
Short for eVo-X Torch Model Cable Package Length Switch Type Connector Type

This Example: eVo-X 13 complete with 4m cable package, blind switch and Euro-connection

Torch Options – EX **XX** xx x xx



Cable Package Length Options – EX xx **XX** x xx



Switch Options – EX xx xx **X** xx



Connector Options Quick List – EX xx xx x **XX**

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

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	

Connector Types & Cooling Versions

Air or water version of the connector is automatically determined by the torch type.

More thorough information regarding connectors on the following pages.

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.

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.



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.

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



SK35 - 13mm



SK25 - 9mm



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



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. The system design also allows the return line to be used as a current conductor without causing thermal bottlenecks under high loads.

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



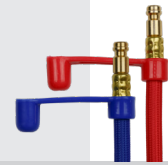
3/8"

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 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.

i

Icons

- ⚡ Power Connection
- 💧 Water Connection
- 🔥 Gas Connection

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

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"

TIG – Connector Options

16  ESAB ⚡ ZA ESAB NW5 ZA ESAB	17  ESS – 5pol ⚡ SK35 - 13mm NW5 1/4"	18  ESS – 5pol ⚡ M12x1 3/8" 1/4"
19  EWM – 5pol ⚡ SK35 - 13mm NW5 1/4"	20  EWM – 8pol ⚡ SK35 - 13mm NW5 1/4"	21  France – 2pol ⚡ SK35 - 13mm NW5 M12x1
22  Fronius – 9pol ⚡ 3/8" 3/8" 1/4"	23  Fronius – 9pol ⚡ Fronius Central NW5 Fronius Central	24  Fronius – 8pol ⚡ Fronius Central NW5 Fronius Central
25  Jasic – 9pol ⚡ SK35 - 13mm NW5 NW5	26  Jasic – 12pol ⚡ SK35 - 13mm NW5 NW5	27  Kemppi – 4pol ⚡ 3/8" 3/8" 1/4"
28  Kemppi – 7pol ⚡ 1/4" MLS NW5 1/4" MLS	29  Lincoln – 5pol ⚡ SK35 - 13mm NW5 NW2.7	30  Lorch – 5pol ⚡ SK35 - 13mm NW5 NW2.7
31  L-TEC – 5pol ⚡ ZA-LTEC NW5 ZA-LTEC	32  Migatron – 7pol ⚡ SK35 - 13mm NW5 NW2.7M	33  Miller – 14pol ⚡ SK35 - 13mm NW5 5/8UNF RH
34  Miller – 14pol ⚡ SK35 - 13mm 5/8UNF LH 5/8UNF RH	35  Rehm – 7pol ⚡ SK35 - 13mm NW5 NW2.7	36  Rehm – 12pol ⚡ SK35 - 13mm NW5 NW2.7
37  Rehm – 19pol ⚡ SK35 - 13mm NW5 NW2.7	38  Weco – 5pol ⚡ SK35 - 13mm NW5 M10x1	<div data-bbox="1034 1821 1066 1861">i</div> <p>Disclaimer</p> <p>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.</p>

TIG – Connector Options



„Shuffled“ Lists

For consistency reasons, every newly added connector has been placed at the end of the existing lists instead of being inserted at the alphabetically correct position. This ensures that all previously assigned serial numbers remain unchanged and valid.

07



EU3 – Air 3

⚡ 1/4"

x



1/4" ⚡

39



Miller STH160 – 6pol

⚡ SL2-25M - 9mm

x



SL2-25M ⚡

40



Megmeet – 5pol

⚡ SK35 - 13mm

NW5



9/16UNF RH ⚡

41



INE – 10p

⚡ SK35 - 13mm

NW5



1/4" ⚡

42



INE – 3p

⚡ SK35 - 13mm

NW5



1/4" ⚡



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



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PERSONAL PROTECTIVE EQUIPMENT



Gloves & TIG-Fingers



Jackets, Trousers



Accessories



Coolants & Aerosols



ewsgmbh.com/rhino

eVo-X SERIES

eVo13

TIGZONE®
TORCHES



60
%DC



WØ
1,0
–
4,0
mm

130
A DC

100
A AC

TIGZONE eVo13 – aircooled TIG-Torch

The Torch

Small profile torch designed for demanding applications and high amperage output

The End-Connector

Available for all standard welding machines

The Handle

Endurance triangle design with different switch options

The Cable

Super-Flex® cables and Super-Snake® leather remains flexible and ease to handle with a significant cable lifetime

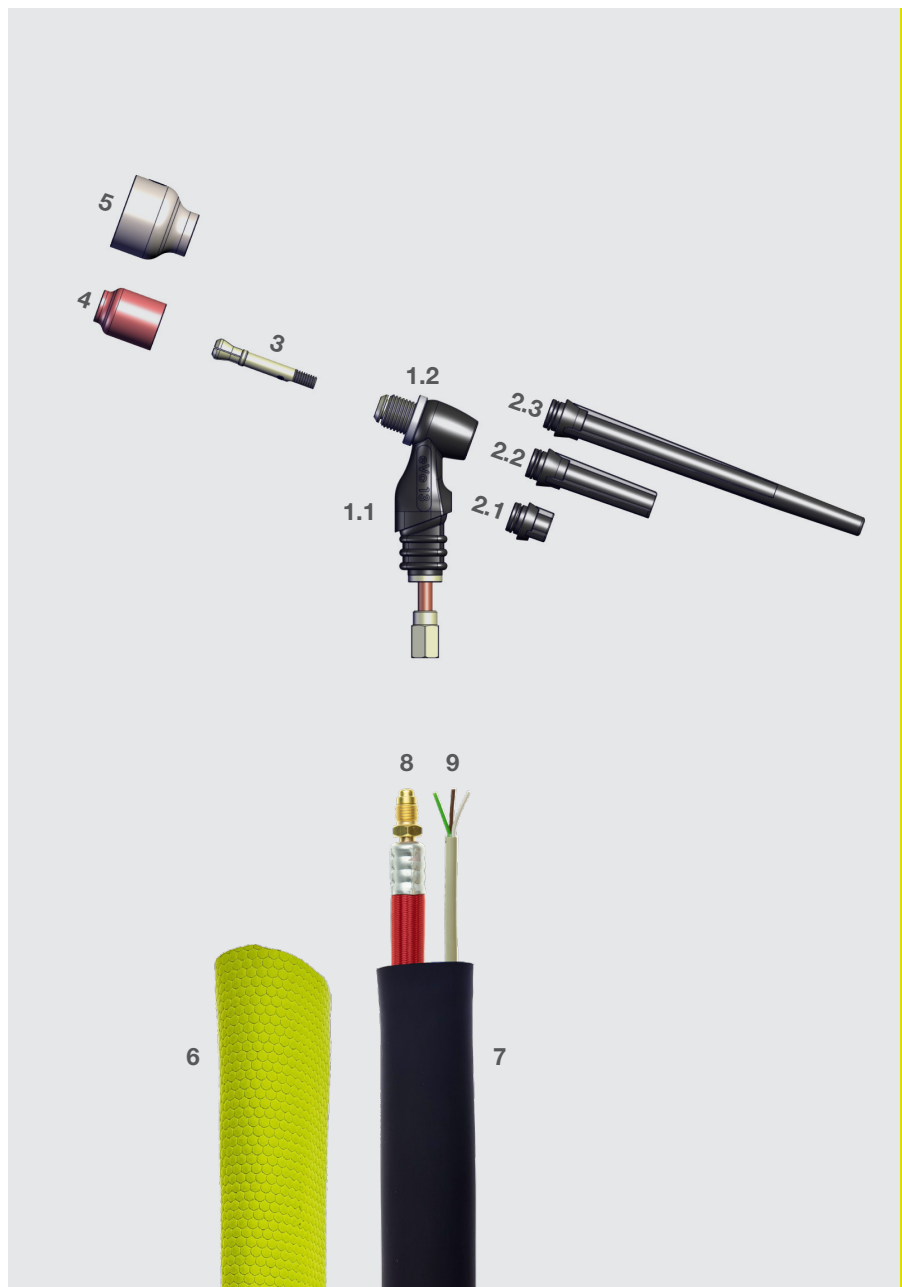
Cross-Compatibility

Cross-compatible consumables across eVo-X torches

DIN Norm

CE EN 60 974-7

TIGZONE eVo13 – Torch / Back End Consumables



Torch Front Group

1	Torch	
.1	Body incl. insulator (1.2)	EVO13
.2	Insulator	EVHS
2	Backcap	
.1	short	EVBCS
.2	medium	EVBCM
.3	long	EVBCL
3	X-Collet 43,5mm	
	1.0mm	EVC040
	1.6mm	EVC116
	2.4mm	EVC332
	3.2mm	EVC418
	4.0mm	EVC532
4	Cup	variants in table below
5	eVo-FLO	variants on page 17

Cable Group

6	Cable cover leather	TZ-1027Y
7	Cable cover 22x1.5mm	RS-22
8	Power Cable	
	4m	57Y01R-SF-*
	8m	57Y03R-SF-*
9	Control	
	4m	AE130-12CC-*
	8m	AE130-25CC-*

***** Please specify machine connections e.g. **1/4, 3/8** etc.

i Handles & Switches

More **Handles & Switches** information on our handle page.

Size	#3	#4	#5	#6	#7	#8	#10
	Ø 4.75 mm	Ø 6.35 mm	Ø 7.93 mm	Ø 9.52 mm	Ø 11.11 mm	Ø 12.70 mm	Ø 15.87 mm
	-	53N58	53N59	53N60	53N61	53N61S	53N61S-10
	-	53N58SC	53N59SC	53N60SC	53N61SC	53N61SSC	-
	-	53N58L	53N59L	53N60L	53N61L	53N61SL	-
	-	53N58XL	53N59XL	53N60XL	53N61XL	-	-

eVo-X SERIES

eVo21

TIGZONE®
TORCHES



60
%DC



WØ
1,0
–
4,0
mm

210
A DC
160
A AC

i Flex Neck Special

The eVo21 is only available
with a flexible neck.



TIGZONE eVo21 – aircooled TIG-Torch

The Torch

Small profile torch designed for demanding applications
and high amperage output

The End-Connector

Available for all standard welding machines

The Handle

Endurance triangle design with different switch options

The Cable

Super-Flex® cables and Super-Snake® leather remains
flexible and ease to handle with a significant cable lifetime

Cross-Compatibility

Cross-compatible consumables across eVo-X torches

DIN Norm

CE EN 60 974-7

TIGZONE eVo21 – Torch / Back End Consumables



Torch Front Group

1	Torch	
.1	Body incl. insulator (1.2)	EVO21
.2	Insulator	EVHS
2	Backcap	
.1	short	EVBCS
.2	medium	EVBCM
.3	long	EVBCL
3	X-Collet 50mm	
	1.0mm	EVC040L
	1.6mm	EVC116L
	2.4mm	EVC332L
	3.2mm	EVC418L
	4.0mm	EVC532L
4	Cup	
	variants in table below	
5	eVo-FLO	
	variants on page 17	

Cable Group

6	Cable cover leather	TZ-1027Y
7	Cable cover 25x1.5mm	RS-25
8	Power Cable	
	4m	46V28R-SF-*
	8m	46V30R-SF-*
9	Control	
	4m	AE210-12CC-*
	8m	AE210-25CC-*

***** Please specify machine connections e.g. **1/4, 3/8** etc.

i Handles & Switches

More **Handles & Switches** information on our handle page.

Size				
	4 Cup (25.40 mm)	4 Super Cup (Sil.Nitride)	4 Cup L (35 mm)	4 Cup XL (72 mm)
#3	Ø 4.75 mm	-	-	-
#4	Ø 6.35 mm	53N58	53N58SC	53N58XL
#5	Ø 7.93 mm	53N59	53N59SC	53N59XL
#6	Ø 9.52 mm	53N60	53N60SC	53N60XL
#7	Ø 11.11 mm	53N61	53N61SC	53N61XL
#8	Ø 12.70 mm	53N61S	53N61SSC	53N61SL
#10	Ø 15.87 mm	53N61S-10	-	-



100
%DC



WØ
1,0
—
3,2
mm

310
A DC
—
240
A AC

TIGZONE eVo31 – watercooled TIG-Torch

The Torch

Small profile torch designed for demanding applications and high amperage output

The End-Connector

Available for all standard welding machines

The Handle

Endurance triangle design with different switch options

The Cable

Super-Flex® cables and Super-Snake® leather remains flexible and ease to handle with a significant cable lifetime

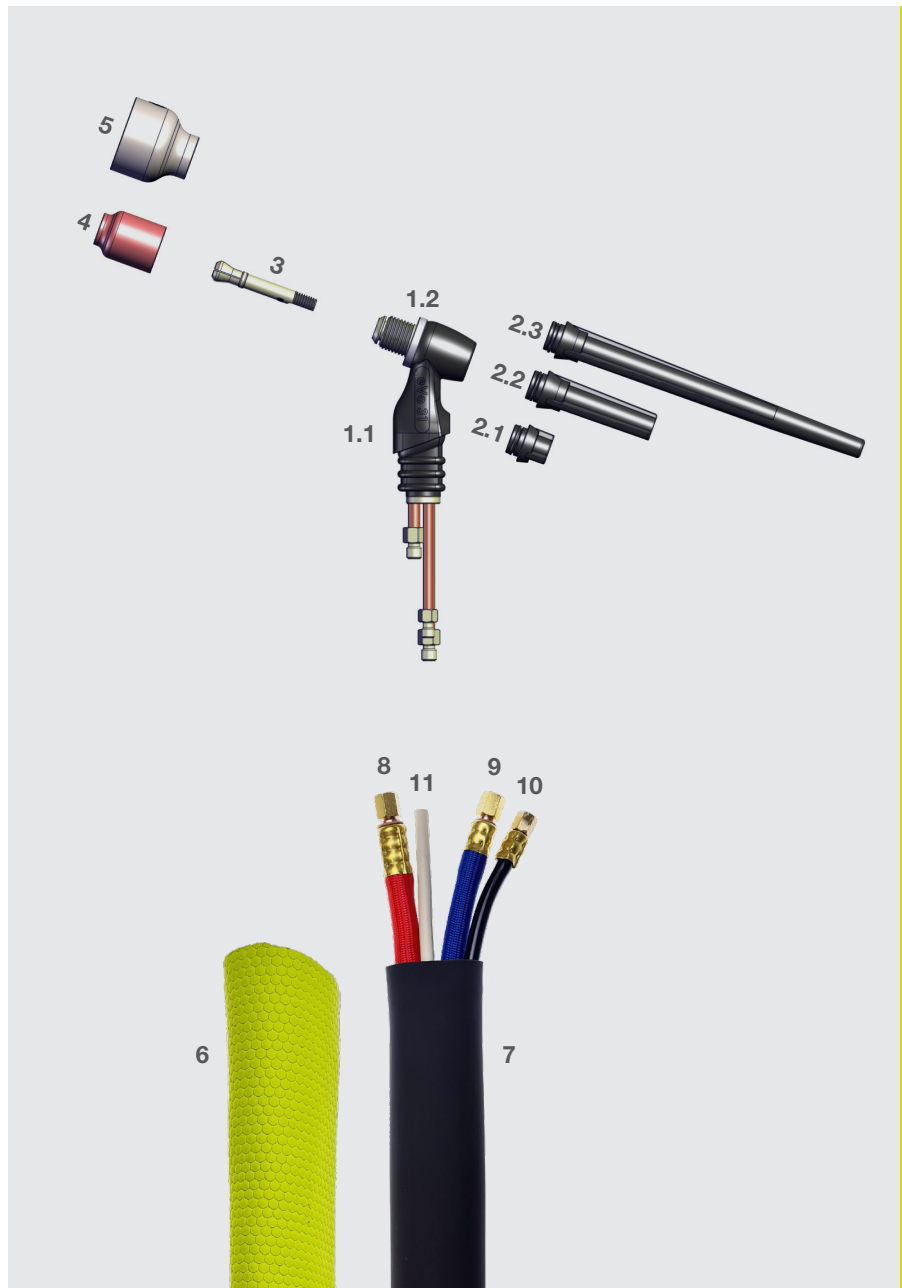
Cross-Compatibility

Cross-compatible consumables across eVo-X torches

DIN Norm

CE EN 60 974-7

TIGZONE eVo31 – Torch / Back End Consumables



Torch Front Group

1	Torch	
.1	Body incl. insulator (1.2)	EVO31
.2	Insulator	EVHS
2	Backcap	
.1	short	EVBCS
.2	medium	EVBCM
.3	long	EVBCL
3	X-Collet 43,5mm	
	1.0mm	EVC040
	1.6mm	EVC116
	2.4mm	EVC332
	3.2mm	EVC418
	4.0mm	EVC532
4	Cup	
	variants in table below	
5	eVo-FLO	
	variants on page 17	

Cable Group

6	Cable cover leather	TZ-1027Y
7	Cable cover 25x1.5mm	RS-25
8	Power Cable	
	4m	AQ310-12PC-*
	8m	AQ310-25PC-*
9	Water Hose	
	4m	AQ310-12W-*
	8m	AQ310-25W-*
10	Gas Hose	
	4m	AQ310-12G-*
	8m	AQ310-25G-*
11	Control	
	4m	AQ310-12CC-*
	8m	AQ310-25CC-*

***** Please specify machine connections e.g. **1/4, 3/8** etc.

i Handles & Switches

More **Handles & Switches** information on our handle page.

Size				
	4 Cup (25.40 mm)	4 Super Cup (Sil.Nitride)	4 Cup L (35 mm)	4 Cup XL (72 mm)
#3	Ø 4.75 mm	-	-	-
#4	Ø 6.35 mm	53N58	53N58SC	53N58XL
#5	Ø 7.93 mm	53N59	53N59SC	53N59XL
#6	Ø 9.52 mm	53N60	53N60SC	53N60XL
#7	Ø 11.11 mm	53N61	53N61SC	53N61XL
#8	Ø 12.70 mm	53N61S	53N61SSC	53N61SL
#10	Ø 15.87 mm	53N61S-10	-	-

eVo-X SERIES

eVo41

TIGZONE®
TORCHES



100
%DC



WØ
1,0
—
4,0
mm

410
A DC

310
A AC

i Flex Neck Special

The eVo41 is only available
with a flexible neck.



TIGZONE eVo41 – watercooled TIG-Torch

The Torch

Small profile torch designed for demanding applications
and high amperage output

The End-Connector

Available for all standard welding machines

The Handle

Endurance triangle design with different switch options

The Cable

Super-Flex® cables and Super-Snake® leather remains
flexible and ease to handle with a significant cable lifetime

Cross-Compatibility

Cross-compatible consumables across eVo-X torches

DIN Norm

CE EN 60 974-7

TIGZONE eVo41 – Torch / Back End Consumables



Torch Front Group

1	Torch	
.1	Body incl. insulator (1.2)	EVO41
.2	Insulator	EVHS
2	Backcap	
.1	short	EVBCS
.2	medium	EVBCM
.3	long	EVBCL
3	X-Collet 50mm	
1.0mm		EVC040L
1.6mm		EVC116L
2.4mm		EVC332L
3.2mm		EVC418L
4.0mm		EVC532L
4	Cup	variants in table below
5	eVo-FLO	variants on page 17

Cable Group

6	Cable cover leather	TZ-1027Y
7	Cable cover 25x1.5mm	RS-25
8	Power Cable	
4m		AQ410-12G-*
8m		AQ410-25G-*
9	Water Hose	
4m		AQ410-12W-*
8m		AQ410-25W-*
10	Gas Hose	
4m		AQ410-12PC-*
8m		AQ410-25PC-*
11	Control	
4m		AQ410-12CC-*
8m		AQ410-25CC-*

* Please specify machine connections e.g. **1/4, 3/8** etc.

Handles & Switches

More **Handles & Switches** information on our handle page.


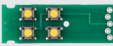






Size	4 Cup (25.40 mm)	4 Super Cup (Sil.Nitride)	4 Cup L (35 mm)	4 Cup XL (72 mm)
#3 Ø 4.75 mm	-	-	-	-
#4 Ø 6.35 mm	53N58	53N58SC	53N58L	53N58XL
#5 Ø 7.93 mm	53N59	53N59SC	53N59L	53N59XL
#6 Ø 9.52 mm	53N60	53N60SC	53N60L	53N60XL
#7 Ø 11.11 mm	53N61	53N61SC	53N61L	53N61XL
#8 Ø 12.70 mm	53N61S	53N61SSC	53N61SL	-
#10 Ø 15.87 mm	53N61S-10	-	-	-

HANDLE SERIES

TIGZONE Endurance

The very small and short TIGZONE Endurance handle is equipped with an up/down function to regulate the power up and down. And more: Due to its triangular shape, the handle can be used by both right-handed and left-handed users without turning. The switch module of the TIGZONE Endurance is also available as a single or double switch version.



Trigger / Switches Parts			Trigger / Switches Complete
AQH-BC-3 	TZ-BB-6 	AQH-PS-1 	AQH-BC-UD 
AQH-BC-2F 	TZ-BB-2 		
AQH-BC-1F 	TZ-BB-1 		

Compatible Torches		Switch	Handle	Parts Cap
TIG 	AE130 AQ310 eVo13 eVo31	✓	ES110-SH 	 ES110-CC
		✗	AQ110-H 	✗
TIG 	AE210 AQ410 eVo21 eVo41	✓	ES210-SH 	 ES210-CC
		✗	AQ210-H 	✗

TIGZONE SERIES

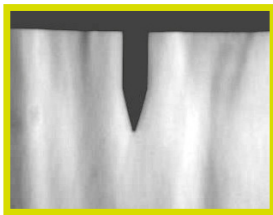
eVo - FLO

Cover Nozzle

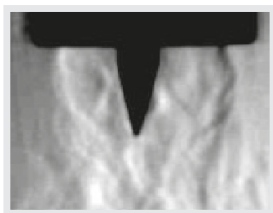
TIG ZONE® designed and developed the new eVo-FLO Cover Nozzle ready for all demanding welding applications.

With an orifice of 27mm the eVo-FLO Cover nozzle provides a large inert atmosphere for the welding of reactive metals such as titanium, molybdenum, nickel - based and aluminium based alloys as well as non - reactive metals like stainless steel. An additional benefit is the ability for greater electrode stick - out (up to 50 mm) for better visibility of the puddle. As a result the eVo Flo system helps you weld and reach the most difficult welding positions.

- Available for 1,6mm – 2,4mm – 3,2mm tungsten
- Weight advantage against standard jumbo Lens
- Interchangeable Lens screens



eVo-FLO in action
tested by Linde AG



turbulent flow
from common cups

Ø Tungsten Diameter	eVo-FLO complete	eVo-FLO Screen	eVo-FLO Spring Ring
1/16 (1,6mm)	GSC116	GS116	EFSR
3/32 (2,4mm)	GSC332	GS332	
1/8 (3,2mm)	GSC418	GS418	

Specifications	
Size	#18
inner Ø (mm)	27,3
Recommended Material	Stainless, Titanium, Inconel
Ampere (A)	180DC
Flow Rate (l/min)	14-21



TIGZONE SERIES

TUNGSTEN

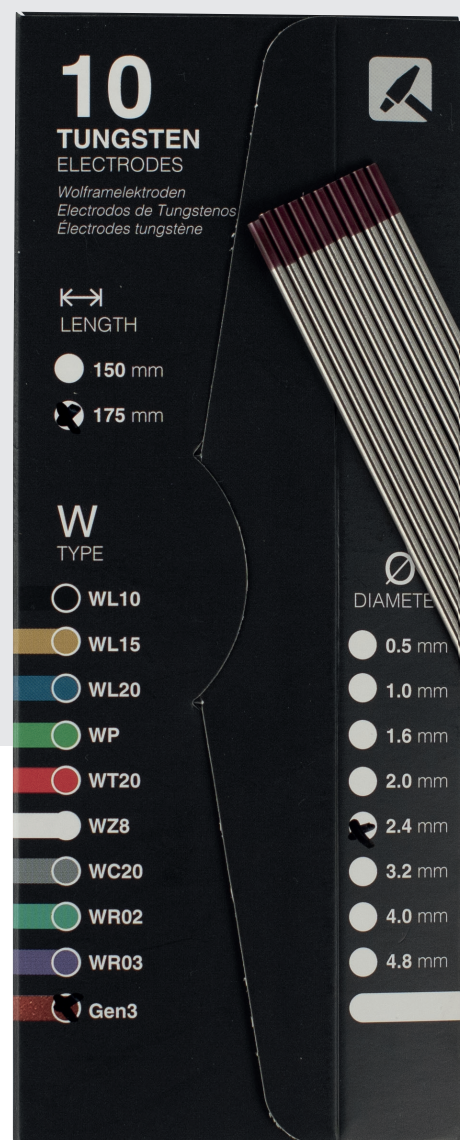
ELECTRODES

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.



Personalised Packaging

We also offer private label packaging.



Choose your Tungsten Electrode

Application	WL10 Black	WL15 Gold	WL20 Blue	WP Green	WT20 Red	WZ8 White	WC20 Grey	WR02 Turquoise	WR03 Violet	Gen3 Pearl Copper
Direct Current Minus Pole	++	++	+++	-	+++	-	+	+++	+++	+++
Alternating Current	++	+	+	++	-	+++	+	+++	+++	+++
Arc Stability	+	+	++	-	+++	++	++	++	++	+++
Ignitability	++	++	+++	-	+++	++	+	+++	++++	+++++
Lifetime	+	++	+++	+	+++	++	+	++++	++++	+++++
High Alloy Steels	++	+++	+++	-	++++	-	+++	++++	++++	++++
Aluminium	++	+	+	++	-	++++	+	+++	+++	+++

That's how you create the SKU

24 WL15 X 175

Ø
Diameter

W
Tungsten Type

↔
Length

Ø – Possible diameters (in mm)

0,5 1,0 1,6 2,4 3,2 4,0 4,8

↔ – Possible Lengths (in mm)

150 175

W – Possible Tungsten Types

WL10
Black

WL15
Gold

WL20
Blue

WP
Green

WT20
Red

WZ8
White

WC20
Grey

WR02
Turquoise

WR03
Violet

Gen3
Pearl Copper

Grinding Angle

The sharper the electrode,
the lower the ampere rating!

The electrode can only withstand the full ampere load at a ground angle of 60°. If electrodes are permanently overloaded, they lose their properties.

Ø (mm)	Grinding Angle (°)				
	15°	30°	45°	60°	75°
Ampere (A)					
1,0	5 – 20	10 – 30	20 – 80	-	-
1,6	10 – 50	20 – 75	30 – 100	50 – 140	-
2,4	10 – 50	20 – 90	30 – 140	50 – 180	80 – 230
3,2	30 – 80	40 – 140	50 – 220	70 – 300	80 – 320
4,0	50 – 100	50 – 150	60 – 250	70 – 350	90 – 450

Manufacturing

Tungsten electrodes are manufactured in a wide variety of designs with the addition of rare earth oxides, using the forging process.

Component	<div>74 183.84</div> <div>W</div> <div>Tungsten Transition Metal</div>	<div>40 91.22</div> <div>Zr</div> <div>Zirconium Transition Metal</div>	<div>57 138.9055</div> <div>La</div> <div>Lanthanum Lanthanide</div>	<div>58 140.116</div> <div>Ce</div> <div>Cerium Lanthanide</div>	<div>39 88.906</div> <div>Y</div> <div>Yttrium Transition Metal</div>
Melting Point	3425°	2715°	2315°	2400°	2425°
Function	impurity < 0.1%	current load	ignition	ignition	lifetime

TIGZONE®

TORCHES

Produced and distributed by

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