

CATALOG

COBOTIC

WELDING TORCHES



EDR torches[®]
Evolution Design Robotics

2024



COBOTIC WELDING TORCHES



“EDRtorches is the result of a long engineering work developing products for robotic welding system”

When we gather in a company more than 25 years of experience in designing applications and solutions in welding, with a high level engineering team only something good can arise, EDRtorches is the result of a long engineering work developing products for welding systems robotic, automated and manual.

Our spirit of continuous innovation is evident in the entire product line we manufacture, we believe that we must see beyond what the industry needs and anticipate solutions to future challenges.

With the product ranges endorsed by companies worldwide, we ensure the most appropriate solution to your demand, in addition to a high level of advice.

EDRtorches we have the solution and the product you need.



We are present worldwide











“We understand that the development of a product starts at the design stage but just as important are quality and production”

Companies with technological or industrial character know the importance of innovating to continue in the current market. In EDR torches this becomes a work philosophy, we understand that without innovation it is not possible to advance in such a competitive world where companies and professionals need increasingly complex solutions.

EDR torches has a strong R & D department dedicated to the development of new welding applications, providing customized solutions both in the area of robotic welding and manual.

We understand that the development of a product begins at the design stage but just as important are the quality and production designed and tested.

The long experience of EDR torches in all sectors related to welding makes us capable of providing the best solutions to your manufacturing challenges, tell us what you need and we will make it possible.

	COBOT systems	6 Pag.
	Selection guides COBOT installations	
	Installation codes MIG-MAG COBOT	12 Pag.
	Installation codes MIG-MAG BASIC	14 Pag.
	Installation codes TIG COBOT-T5W	16 Pag.
	Robotic welding torches	
	MIG / MAG COBOT-30G (300A)	18 Pag.
	MIG / MAG COBOT-40W (500A)	20 Pag.
	MIG / MAG BASIC-42G (300A)	22 Pag.
	MIG / MAG BASIC-52W (500A)	24 Pag.
	TIG COBOT-T5W (400A)	26 Pag.
	Fume extraction ASMIG for COBOT	28 Pag.
	Cleaning station CS2	30 Pag.
	Control disc for UR	32 Pag.
	Cover cobot for UR	34 Pag.
	Data base	38 Pag.

COBOT

Robotic welding torches for hollow wrist robots



BASIC

Robotic welding torches for standar robots

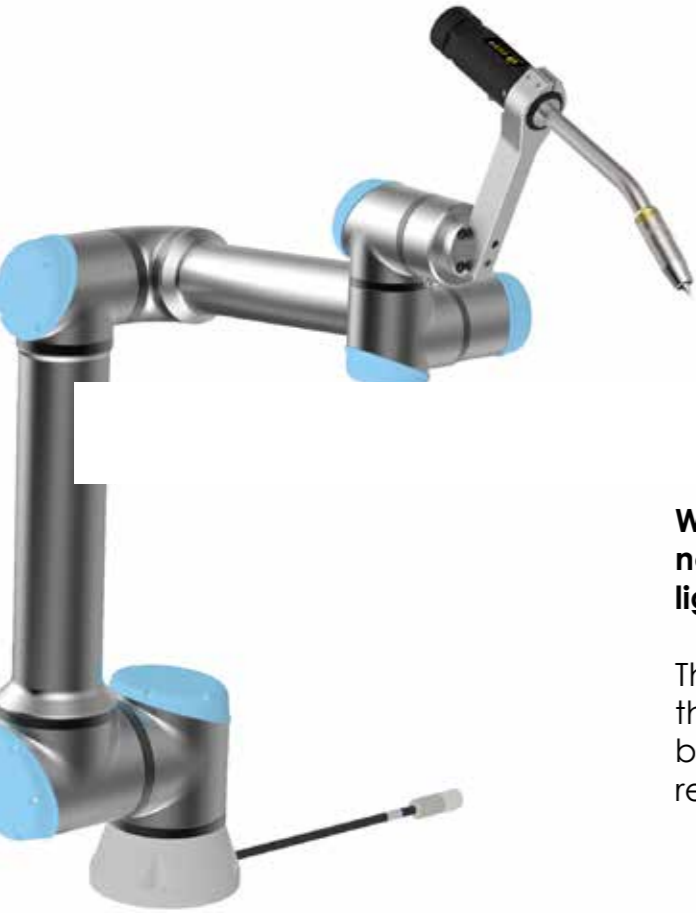


COBOT TIG

Robotic welding torches for standar robots TIG



COBOT



Welding torches designed for collaborative robots do not need anti-collision systems, which makes them lighter and easier to set up.

They can be used with control elements to facilitate the programming of the robot with the position 4 disc, but this is not necessary if your application does not require it.

Range of torches designed welding solutions with collaborative robots. This line of CO-BOT series torches adapts perfectly to all the requirements of collaborative robots due to its low weight and functionality.

Robust and light necks calibrated to maintain a stable TCP during the life of the torch, in addition to stainless steel structure that gives an excellent rigidity and avoids the increase of the temperature in the back areas of the neck, being able to be handled with greater ease, but always maintaining the precautions that a welding process requires.



Welding necks MIG-MAG

Structure of the neck in stainless steel, gives a rigidity and stability of the TCP much higher than the termination in Brass more unstable with changes in temperature.



Interchangeable necks. Total compatibility and wide range of torch. Threaded neck change system, quick and easy with independent circuits and automatic liquid shutoff valves.



Separate ducts for the entire BOT line. Double circuit cooling system for nozzle and contact tip completely Independent. Gas driving totally separates from the rest of circuits like the thread of contribution, improving the stability of the gas outlet and the projection.

8-hole diffusers. The distribution of the 8 holes of the diffuser generates a better distribution of the shielding gas and a better cooling of the nozzle.

COLDTip

Necks 40W with cooling system. Long duration tip system COLDTip, exclusive of the BOT torch line, with this system the use of standard system contact tips is reduced from 3 to 5 times. How is it achieved. The system maintains the tip of contact at low temperature which makes the hardness of copper is not affected and wear less with the passage of the thread, in addition to stay cold the projections do not stick. Half of the contact tip enters a cooling chamber, The cone of the tip gives electrical and thermal transmission efficiency.

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice

1

Welding necks TIG

The TIG welding system for BOT systems can be used with or without thread supply, it is liquid cooled and its cooling power allows high working cycles maintaining the stability of tungsten.



Longer spare part lifeline Tungsten holders of large dimensions and high durability.



More arch stability. Integrated metal ring improves HF stability. Adjustment of the position of the supply wire



Protection options. Connector for anti-collision system (not for cobots)



Better cooling. Powerful cooling circuit up to the diffuser

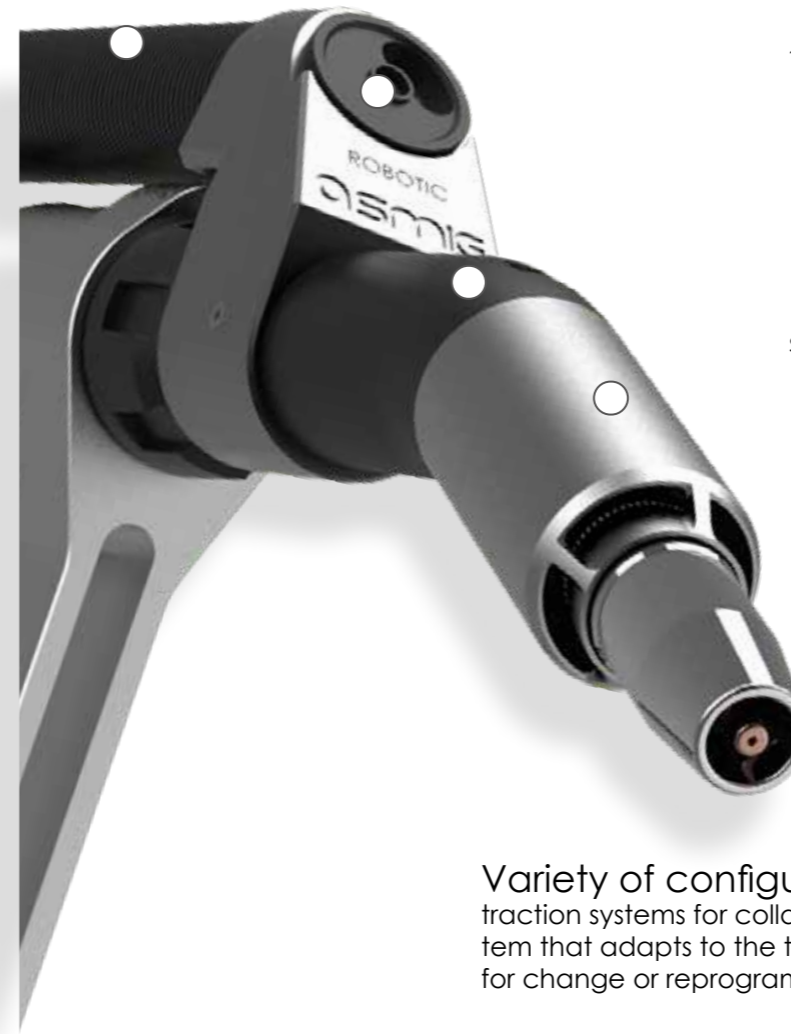


© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice.

5

Fume extraction @SMIG

The ASMIG system guarantees the maximum extraction of welding fumes in BOT systems, being this system modular and can be incorporated as an accessory in an already operating installation.



- ~Large Diameter Pipe With Lower Suction Losses
- ~Vacuum Regulation System External To The Pump. Independent Adjustment Of Each Torch In Centralized Systems
- ~Independent elbow. allow the systems to be adapted to different types of standard necks of the bot series
- ~Different sizes and lengths of suction nozzles. adjust your system to the best conditions



Variety of configurations without losing programming. Extraction systems for collaborative and industrial robots, ASMIG is a modular system that adapts to the torch that you currently have installed without the need for change or reprogramming in BOT series systems



NEW

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted.

6

Cleaning station CS2

Nozzle cleaning station for automated and robotized welding torches. It incorporates welding wire cutting unit. Guarantees continuity of the welding process, keeping the nozzle of the welding torch free of slag and projections



7

Control disc for UR

Control and programming disc with buttons directly on the wrist of the robot. designed with welding programming software for universal robots.



8

Cover robot UR

Welding protection cover, designed for various models of universal robots.



INSTALLATION CONFIGURATOR

1

2

3

4



GAS COOLING

COBOT-30G 300A

e-BOT



- 3000 R12.0000 BOT-30G-180°
- 3022 R12.0220 BOT-30G-22°
- 3045 R12.0450 BOT-30G-45°

- EEXXXG R91.1XXX power cable gas Euro
- EMXXG R91.2XXX power cable gas Miller
- EPXXG R91.3XXX power cable gas Panasonic
- EOXXG R91.4XXX power cable gas OTC

- T1 R10.0011 L76xD15.5
- T2 R10.0012 L76xD13
- T3 R10.0211 L79xD15.5
- P10 R10.0400.10 M10 1.0
- P12 R10.0400.12 M10 1.2

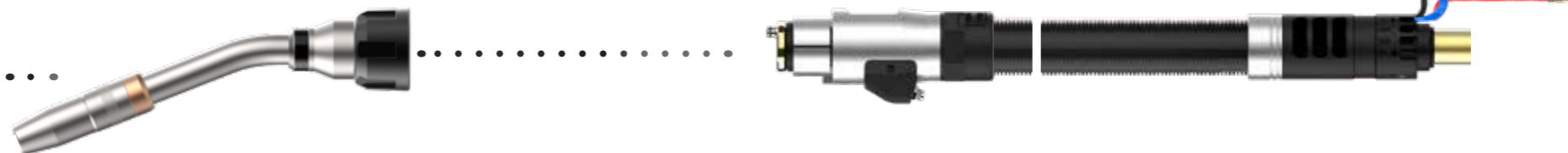
BICOMP

- 67 R41.1023 Bracket 67°
- 5040 R75.0020 D50x4

LIQUID COOLING

BOT-40W 500A

e-BOT



- 4000 R14.0000 BOT-40W-180°
- 4022 R14.0220 BOT-40W-22°
- 402F R14.0222 BOT-40W-22°F
- 402L R14.0221 BOT-40W-22°L
- 40LF R14.0223 BOT-40W-22°LF
- 4036 R14.0360 BOT-40W-36°
- 4045 R14.0450 BOT-40W-45°
- 404L R14.04511 BOT-40W-45°L

- EEXXXL R92.1XXX power cable liquid Euro
- EMXXL R92.2XXX power cable liquid Miller
- EPXXL R92.3XXX power cable liquid Panasonic
- EOXXL R92.4XXX power cable liquid OTC

- K1 R04.0000 Neck tool BOT



Sample installation code: T1-P12-3022-IE137G-XX-IB-5860-K1

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted



BASIC

GAS COOLING
BASIC-42G 300A



BE3G22	R98 1300 22	Welding torch 42G-22° gas BASIC 3mts-Euro type
BE4G22	R98 1400 22	Welding torch 42G-22° gas BASIC 4mts-Euro type
BE3G45	R98 1300 45	Welding torch 42G-45° gas BASIC 3mts-Euro type
BE4G45	R98 1400 45	Welding torch 42G-45° gas BASIC 4mts-Euro type
BM3G22	R98 2300 22	Welding torch 42G-22° gas BASIC 3mts-Miller type
BM4G22	R98 2400 22	Welding torch 42G-22° gas BASIC 4mts-Miller type
BM3G45	R98 2300 45	Welding torch 42G-45° gas BASIC 3mts-Miller type
BM4G45	R98 2400 45	Welding torch 42G-45° gas BASIC 4mts-Miller type
BP3G22	R98 3300 22	Welding torch 42G-22° gas BASIC 3mts-Panasonic type
BP4G22	R98 3400 22	Welding torch 42G-22° gas BASIC 4mts-Panasonic type
BP3G45	R98 3300 45	Welding torch 42G-45° gas BASIC 3mts-Panasonic type
BP4G45	R98 3400 45	Welding torch 42G-45° gas eBASIC 4mts-Panasonic type



67 R41.1023 Bracket 67°

5040 R75.0020 D50x4

LIQUID COOLING
BASIC-52W 500A



BE3W22	R99 1300 22	Welding torch 52W-22° gas eBASIC 3mts-Euro type
BE4W22	R99 1400 22	Welding torch 52W-22° gas eBASIC 4mts-Euro type
BE3W45	R99 1300 45	Welding torch 52W-45° gas eBASIC 3mts-Euro type
BE4W45	R99 1400 45	Welding torch 52W-45° gas eBASIC 4mts-Euro type



Sample installation code: BE3W22-67-5040

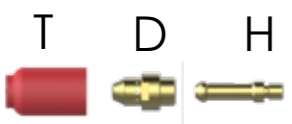


COBOT

LIQUID COOLING
COBOT-T5W 400A



P10	R15 0110	M6 1.0	TEXXX	R97 8xxx E	T5W - COLD WIRE for Euro
P12	R15 0112	M6 1.2	TMXXX	R97 8xxx M	T5W - COLD WIRE for Miller



T1	T54N16	Nozzle G6
T2	T54N15	Nozzle G7
T3	T54N14	Nozzle G8
D1	R15 5304	Diffuser M14 2.4mm
D2	R15 5305	Diffuser M14 3.2mm
H1	R15 5524	E. holder 2.4 mm
H2	R15 5532	E. holder 3.2 mm

LIQUID COOLING
COBOT-T5W 400A



TXXX R97 8xxx T5W



30	R41.5001	Bracket 30°	5040	R73.0021	D45x4
-----------	----------	-------------	-------------	----------	-------

S1 + S2 + 1 + 3 + 4

Sample installation code: T1-D1-H1-P12-TE400-30-5040

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints



Torch neck COBOT-30G

CE MIG/MAG, GMAW, 131, 135 IEC60974-7

- Gas**
- 300 A - CO2 100%
- 250A - Mix M21 100%
- Ø 1.0-1.2 mm
- 10-16 l/min
- The capacity will be reduced by 35% whit pulsed arc.

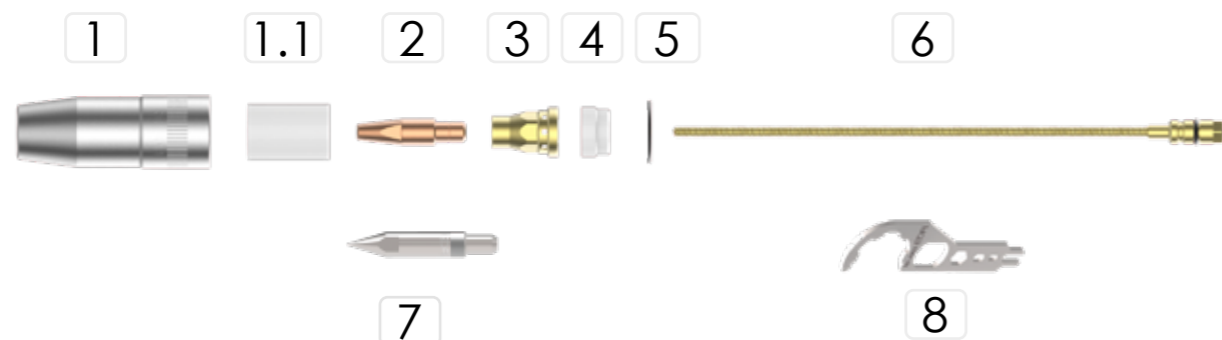


High resistance materials

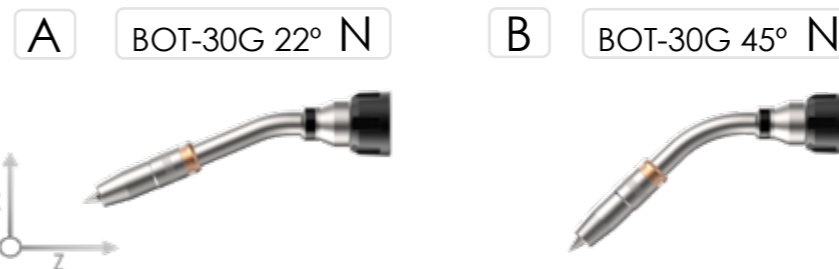
COBOT

Manufacturing characteristics.
 ~Use in most applications
 ~8-hole diffuser, better gas flow
 ~High thermal resistance materials
 ~High stability of TCP
 ~Stainless steel construction
 ~Medium working intensity

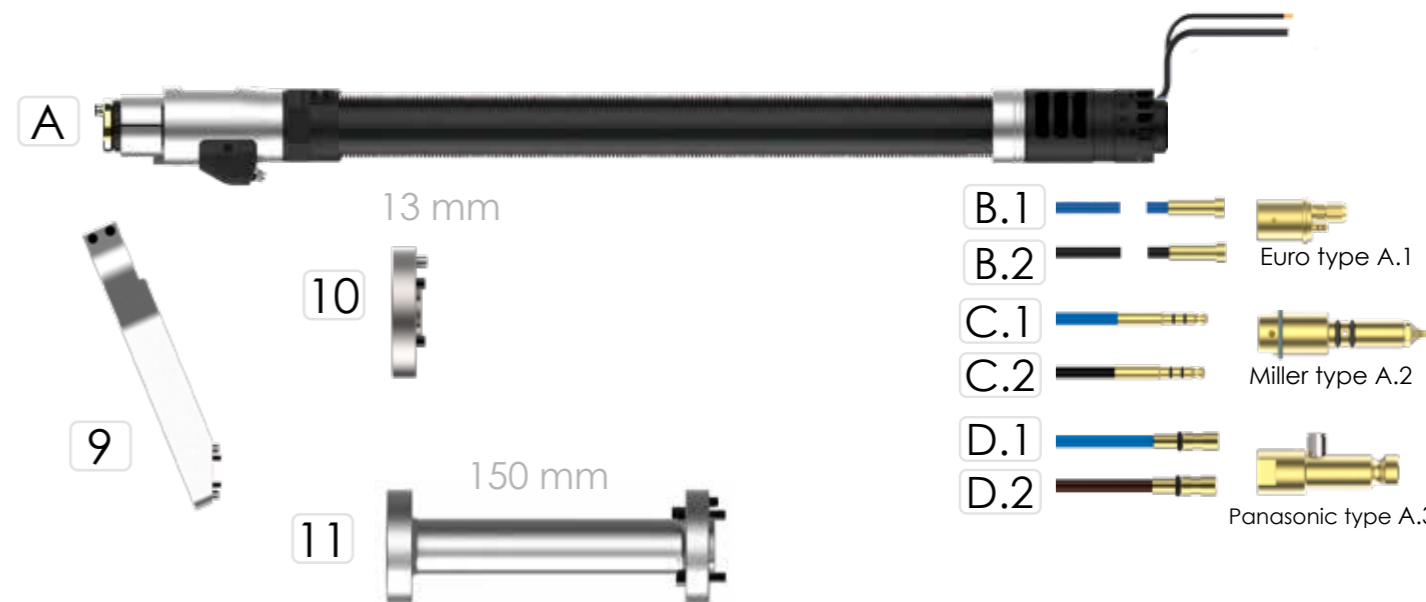
Applications
 ~Non-alloy and low alloy steels
 ~High alloy steels.



Pos.	CODE	TYPE	Min. Q.
1	R10 0011	Nozzle L76xØ15.5 mm	2
	R10 0012	Nozzle L76xØ13 mm	2
	R10 00211	Nozzle L79xØ15.5 mm	2
1.1	R10 0002	Insulator nozzle L32XØ20.75 mm	2
2	R10 0400 10	Contact tip M10 1.0 mm Cu-BICOMP	5
	R10 0400 12	Contact tip M10 1.2 mm Cu-BICOMP	5
	R10 0400 16	Contact tip M10 1.6 mm Cu-BICOMP	5
	R10 0401 08	Contact tip M10 0.8 mm CuCrZr	10
	R10 0401 10	Contact tip M10 1.0 mm CuCrZr	10
	R10 0401 12	Contact tip M10 1.2 mm CuCrZr	10
	R10 0401 16	Contact tip M10 1.6 mm CuCrZr	10
3	R12 0013	Diffuser L26xØ18.5 mm M10	2
4	R12 0308	Insulator neck L11XØ18.5 mm	2
5	R10 0401	Oring neck Ø23 mm	10
6	R10 1112	Liner for neck type N 217mm	1
7	R10 0115	Tip TCP M10-15mm programming	1
8	R04 0000	Neck tool BOT	1



Pos.	CODE	TYPE	Min. Q.
A	R12 0220	Torch neck BOT-30G 22° (X=64 mm, Z=247 mm)-long type N	1
B	R12 0450	Torch neck BOT-30G 45° (X=111 mm, Z=217 mm)-long type N	1



Pos.	CODE	TYPE	Min. Q.
A.1	R91 1300	Power cable gas eBOT-Euro type- 3mts	1
	R91 1400	Power cable gas eBOT-Euro type-4mts	1
A.2	R91 2300	Power cable gas eBOT-Miller type- 3mts	1
	R91 2400	Power cable gas eBOT-Miller type-4mts	1
A.3	R91 3300	Power cable gas eBOT-Panasonic type- 3mts	1
	R91 3400	Power cable gas eBOT-Panasonic type-4mts	1
1.1	M99SR03B	Guide blue L3600xD4.6xD1.5mm(0.8-1.0)-Euro	1
	M99SR04B	Guide blue L4600xD4.6xD1.5mm(0.8-1.0)-Euro	1
1.2	M99 4003	Guide black L3600xD5.3xD2.2mm(1.2-1.6)-Euro	1
	M99 4004	Guide black L4600xD5.3xD2.2mm(1.2-1.6)-Euro	1
1.3	M99 7002	Guide for Alum BOT L2700xD4.5xD2.5mm(1.2-1.6)-Euro	1
	M99 7003	Guide for Alum BOT L3700xD4.5xD2.5mm(1.2-1.6)-Euro	1
9	R41 1023	Torch bracket eBOT 67°	1
10	R75 0020	Direct adapater disc eBOT D50	1
11	R75 0030	Direct adapater disc eBOT D50- Long.150mm	1

For more data and options see the BOT series catalog



Data sheet

Torch neck COBOT-40W



MIG/MAG, GMAW, 131, 135
IEC60974-7



Liquid



500 A - CO2 100%



400A - Mix M21 100%



Ø 1.0-1.6 mm



10-18 l/min



The capacity will be reduced by 35% whit pulsed arc.



COLD Tip



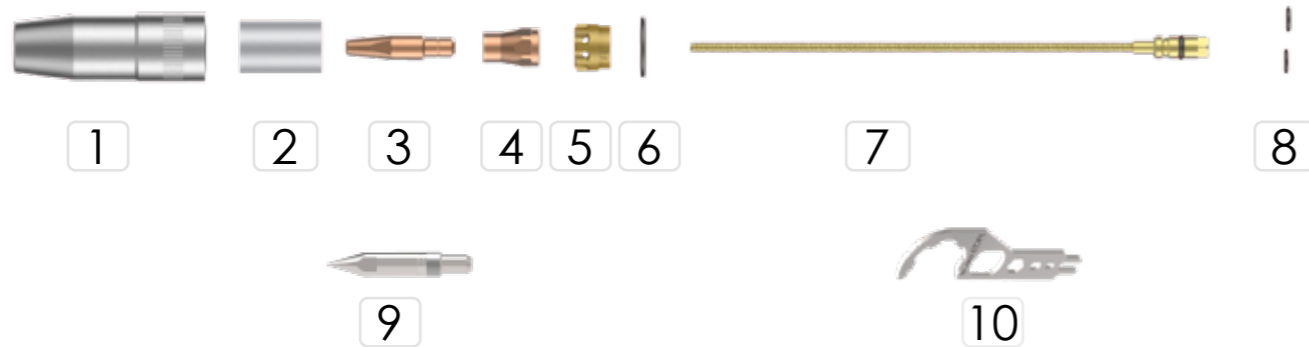
COBOT

Manufacturing characteristics.

- ~Use for most applications
- ~8-hole diffuser, better gas flow
- ~Separate gas, no leaks
- ~Double cooling circuit
- ~Stainless steel construction
- ~Hard working intensity

Applications

- ~Non-alloy and low alloy steels
- ~High alloy steels
- ~Aluminium, magnesium, copper and Nichel alloys



Pos.	CODE	TYPE	Min. Q.	
1	R10 0011	Nozzle L76xØ15.5 mm	2	
	R10 0012	Nozzle L76xØ13 mm	2	
	R10 0211	Nozzle L79xØ15.5 mm	2	
2	R10 0002	Insulator nozzle L32XØ20.75 mm	2	
	3	R10 0400 10	Contact tip M10 1.0 mm Cu-BICOMP	5
		R10 0400 12	Contact tip M10 1.2 mm Cu-BICOMP	5
		R10 0400 16	Contact tip M10 1.6 mm Cu-BICOMP	5
	R10 0400 12A	Contact tip M10 1.2 mm Cu-BICOMP Alum	5	
	R10 0400 16A	Contact tip M10 1.6 mm Cu-BICOMP Alum	5	
	R10 0401 08	Contact tip M10 0.8 mm CuCrZr	10	
R10 0401 10	Contact tip M10 1.0 mm CuCrZr	10		
R10 0401 12	Contact tip M10 1.2 mm CuCrZr	10		
R10 0401 16	Contact tip M10 1.6 mm CuCrZr	10		
4	R10 0013	Tip holder L22xØ15 mm M10	2	
5	R12 0404	Diffuser Insulator neck L14XØ18.5 mm	2	
6	R10 0401	Oring neck Ø23 mm	10	
7	R10 1112	Liner for neck type N 217mm	1	
8	R12 0008	Oring neck water Ø9 mm	10	
9	R10 0115	Tip TCP M10-15mm programming	1	
10	R04 0000	Neck tool BOT	1	



Data sheet

A

BOT-40W 22° N



B

BOT-40W 22°F N



C

BOT-40W 45° N



Pos.	CODE	TYPE	Min. Q.
A	R14 0220	Torch neck BOT-40W 22° (X=64 mm, Z=247 mm)-long type N	1
B	R14 0222	Torch neck BOT-40W 22°F (X=50 mm, Z=250 mm)-long type N	1
C	R14 0450	Torch neck BOT-40W 45° (X=111 mm, Z=217 mm)-long type N	1

A



11

13 mm

12

13

150 mm

B.1

B.2

C.1

C.2

D.1

D.2

Euro type A.1

Miller type A.2

Panasonic type A.3

Pos.	CODE	TYPE	Min. Q.
A.1	R92 1300	Power cable liquid eBOT-Euro type- 3mts	1
	R92 1400	Power cable liquid eBOT-Euro type-4mts	1
A.2	R92 2300	Power cable liquid eBOT-Miller type- 3mts	1
	R92 2400	Power cable liquid eBOT-Miller type-4mts	1
A.3	R92 3300	Power cable liquid eBOT-Panasonic type- 3mts	1
	R92 3400	Power cable liquid eBOT-Panasonic type-4mts	1
1.1	M99SR03B	Guide blue L3600xD4.6xD1.5mm(0.8-1.0)-Euro	1
	M99SR04B	Guide blue L4600xD4.6xD1.5mm(0.8-1.0)-Euro	1
1.2	M99 4003	Guide black L3600xD5.3xD2.2mm(1.2-1.6)-Euro	1
	M99 4004	Guide black L4600xD5.3xD2.2mm(1.2-1.6)-Euro	1
1.3	M99 7002	Guide for Alum BOT L2700xD4.5xD2.5mm(1.2-1.6)-Euro	1
	M99 7003	Guide for Alum BOT L3700xD4.5xD2.5mm(1.2-1.6)-Euro	1
11	R41 1023	Torch bracket eBOT 67°	1
12	R75 0020	Direct adapter disc eBOT D50	1
13	R75 0030	Direct adapter disc eBOT D50- Long.150mm	1

For more data and options see the BOT series catalog

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

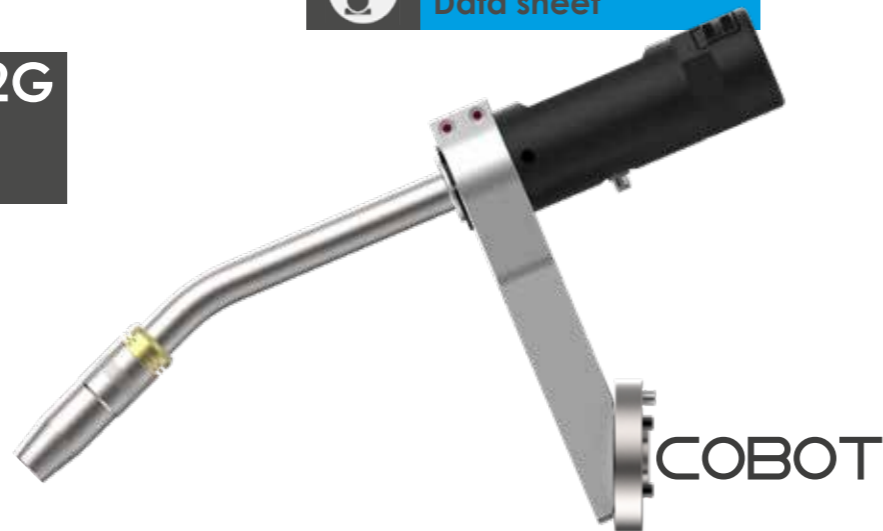
© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted



Torch neck BASIC-42G

CE MIG/MAG, GMAW, 131, 135 IEC60974-7

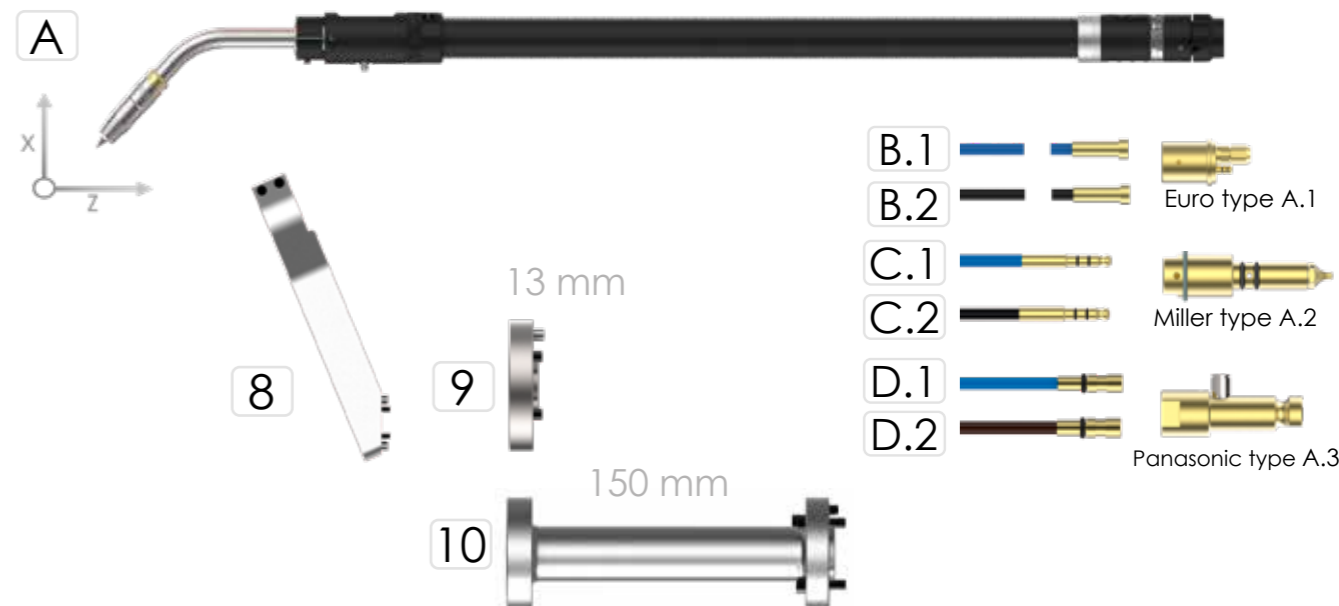
- Gas**
- 300 A - CO2 100%
- 250A - Mix M21 100%
- Ø 1.0-1.2 mm
- 10-16 l/min
- The capacity will be reduced by 35% whit pulsed arc.



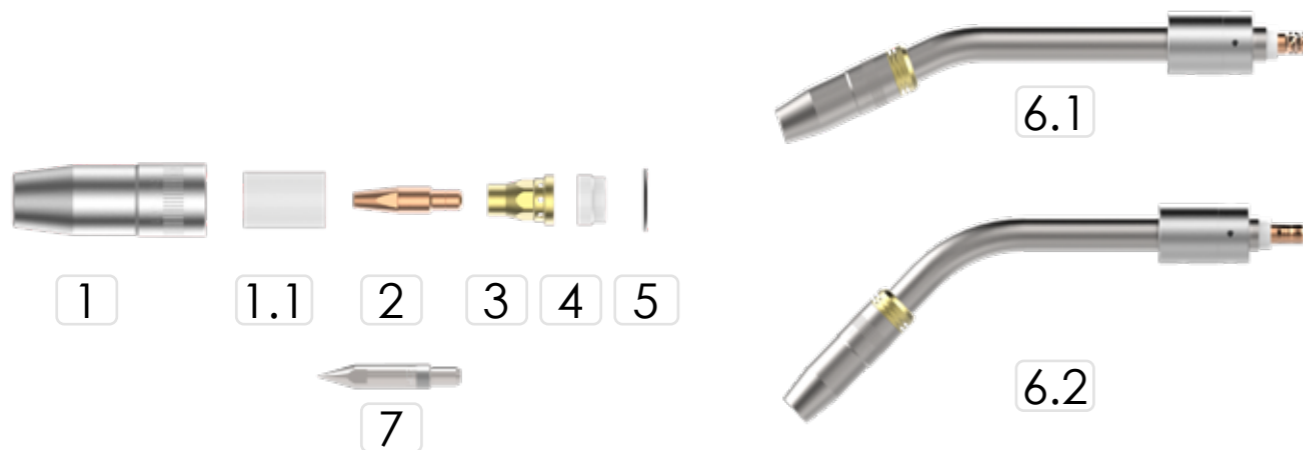
Manufacturing characteristics.
 ~Low weight for COBOT
 ~Use in most applications
 ~8-hole diffuser, better gas flow
 ~High thermal resistance materials
 ~High stability of TCP
 ~Medium working intensity

Applications
 ~Non-alloy and low alloy steels
 ~High alloy steels.

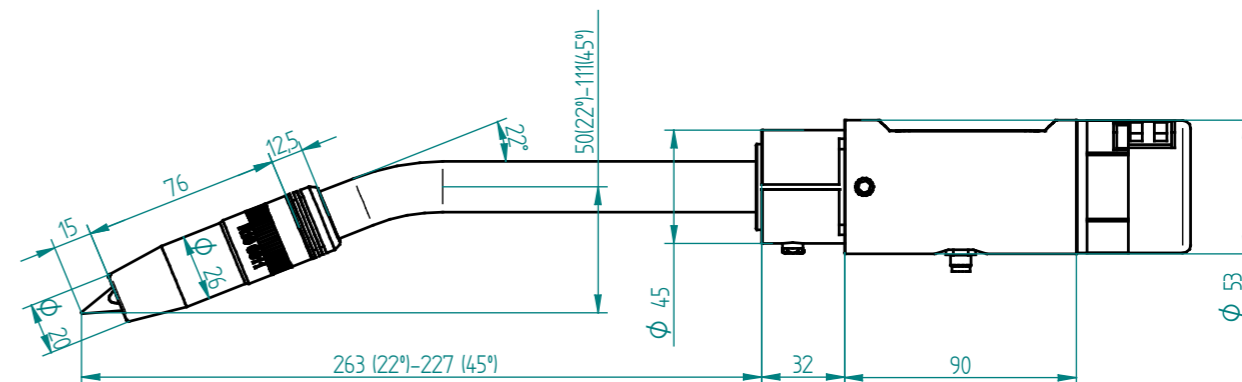
High resistance materials



Pos.	CODE	TYPE	Min. Q.
A.1	R98 1300 22	Welding torch 42G-22° gas eBASIC 3mts-Euro type	1
	R98 1400 22	Welding torch 42G-22° gas eBASIC 4mts-Euro type	1
	R98 1300 45	Welding torch 42G-45° gas eBASIC 3mts-Euro type	1
	R98 1400 45	Welding torch 42G-45° gas eBASIC 4mts-Euro type	1
A.2	R98 2300 22	Welding torch 42G-22° gas eBASIC 3mts-Miller type	1
	R98 2400 22	Welding torch 42G-22° gas eBASIC 4mts-Miller type	1
	R98 2300 45	Welding torch 42G-45° gas eBASIC 3mts-Miller type	1
	R98 2400 45	Welding torch 42G-45° gas eBASIC 4mts-Miller type	1
A.3	R98 3300 22	Welding torch 42G-22° gas eBASIC 3mts-Panasonic type	1
	R98 3400 22	Welding torch 42G-22° gas eBASIC 4mts-Panasonic type	1
	R98 3300 45	Welding torch 42G-45° gas eBASIC 3mts-Panasonic type	1
	R98 3400 45	Welding torch 42G-45° gas eBASIC 4mts-Panasonic type	1
B.1	M99SR03B	Guide blue L3600xØ4.6xØ1.5mm (0.8-1.0mm)-Euro	1
	M99SR04B	Guide blue L4600xØ4.6xØ1.5mm (0.8-1.0mm)-Euro	1
B.2	M99 4003	Guide black L3600xØ5.3xØ2.2mm (1.2-1.6mm)-Euro-HD	1
	M99 4004	Guide black L4600xØ5.3xØ2.2mm (1.2-1.6mm)-Euro-HD	1
C.1	M99 1003	Guide blue L3600xØ4.6xØ1.5mm (0.8-1.0mm)-Miller type	1
	M99 1004	Guide blue L4600xØ4.6xØ1.5mm (0.8-1.0mm)-Miller type	1
C.2	M99 1103	Guide black L3600xØ5.3xØ2.2mm (1.2-1.6mm)-Miller type	1
	M99 1104	Guide black L4600xØ5.3xØ2.2mm (1.2-1.6mm)-Miller type	1
D.1	M99 1303	Guide blue L3600xØ4.6xØ1.5mm (0.8-1.0mm)-Panasonic type	1
	M99 1304	Guide blue L4600xØ4.6xØ1.5mm (0.8-1.0mm)-Panasonic type	1
D.2	M99 1203	Guide black L3600xØ5.3xØ2.2mm (1.2-1.6mm)-Panasonic type	1
	M99 1204	Guide black L4600xØ5.3xØ2.2mm (1.2-1.6mm)-Panasonic type	1
8	R41 1023	Torch bracket eBOT 67°	1
9	R75 0020	Direct adapter disc COBOT D50x4xM6	1
10	R75 0030	Direct adapter disc eBOT D50- Long.150mm	1



Pos.	CODE	TYPE	Min. Q.
1	R10 0011	Nozzle L76xØ15.5 mm	2
	R10 0012	Nozzle L76xØ13 mm	2
	R10 00211	Nozzle L79xØ15.5 mm	2
1.1	R10 0002	Insulator nozzle L32xØ20.75 mm	2
2	R10 0400 10	Contact tip M10 1.0 mm Cu-BICOMP	5
	R10 0400 12	Contact tip M10 1.2 mm Cu-BICOMP	5
	R10 0401 08	Contact tip M10 0.8 mm CuCrZr	10
	R10 0401 10	Contact tip M10 1.0 mm CuCrZr	10
	R10 0401 12	Contact tip M10 1.2 mm CuCrZr	10
3	R12 0013	Diffuser L26xØ18.5 mm M10	2
4	R12 0308	Insulator neck L11xØ18.5 mm	2
5	R10 0401	Oring neck Ø23 mm	10
6.1	R11 4220	Torch neck BASIC-42G 22° (X=50 mm, Z=263 mm)	1
6.2	R11 4450	Torch neck BASIC-42G 45° (X=111 mm, Z=227 mm)	1
7	R10 0115	Tip TCP M10-15mm programming	1



© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted



Torch neck BASIC-52W



MIG/MAG, GMAW, 131, 135
IEC60974-7



Liquid



500 A - CO2 100%



400A - Mix M21 100%



Ø 1.0-1.6 mm



10-18 l/min



The capacity will be reduced by 35% whit pulsed arc.



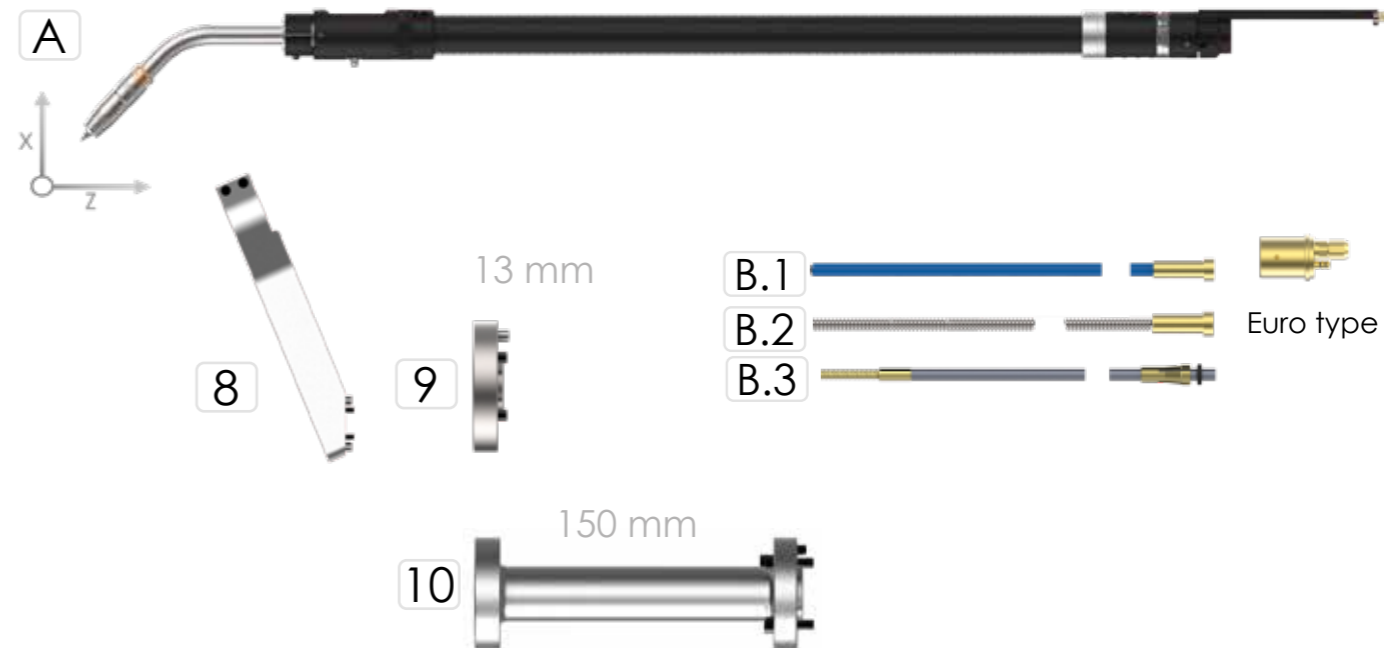
Manufacturing characteristics.

- ~Low weight for COBOT
- ~Use in most applications
- ~8-hole diffuser, better gas flow
- ~High thermal resistance materials
- ~High stability of TCP
- ~Medium working intensity

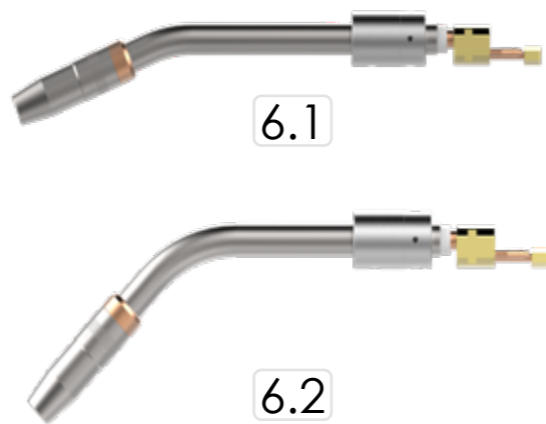
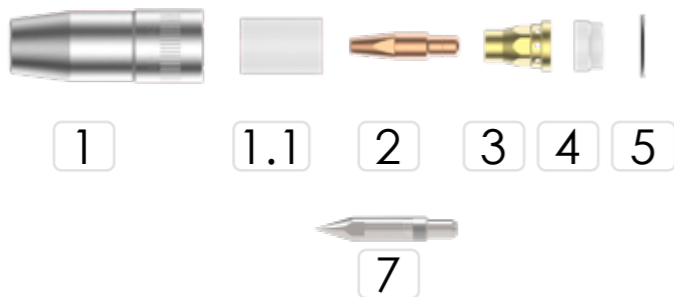
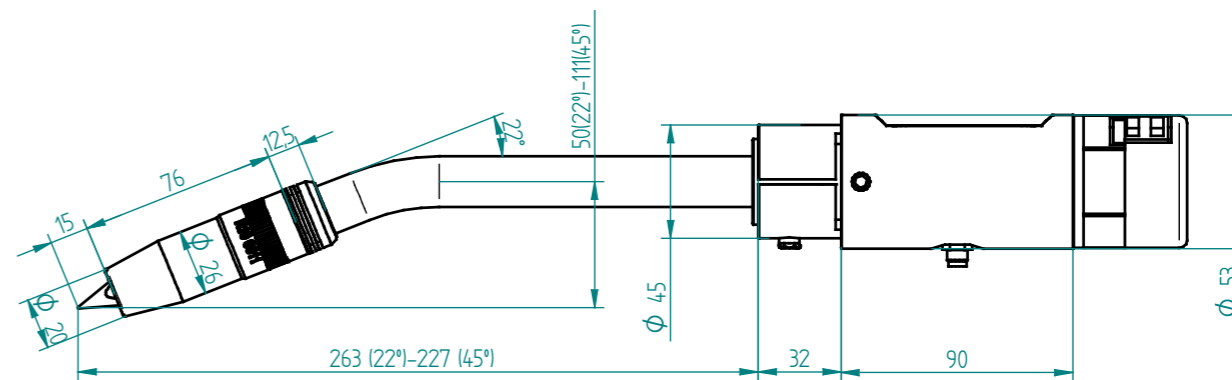
Applications

- ~Non-alloy and low alloy steels
- ~High alloy steels.

High resistance materials



Pos.	CODE	TYPE	Min. Q.
A	R99 1300 22	Welding torch 52W-22° liquid eBASIC 3mts -Euro type	1
	R99 1300 45	Welding torch 52W-45° liquid eBASIC 3 mts -Euro type	1
	R99 1400 22	Welding torch 52W-22° liquid eBASIC 4mts -Euro type	1
	R99 1400 45	Welding torch 52W-45° liquid eBASIC 4 mts -Euro type	1
B.1	M99SR02B	Guide blue L2600xØ4.6xØ1.5mm (0.8-1.0mm)-Euro	1
	M99SR03B	Guide blue L3600xØ4.6xØ1.5mm (0.8-1.0mm)-Euro	1
	M99SR04B	Guide blue L4600xØ4.6xØ1.5mm (0.8-1.0mm)-Euro	1
B.2	M45SR02	Guide nude L2600xØ4.6xØ2.2mm (1.2-1.6mm)-Euro-HD	1
	M45SR03	Guide nude L3600xØ4.6xØ2.2mm (1.2-1.6mm)-Euro-HD	1
	M45SR04	Guide nude L4600xØ4.6xØ2.2mm (1.2-1.6mm)-Euro-HD	1
B.3	M99SA102	Guide for Alum L2700xØ4.5xØ2.5mm (1.2-1.6mm)-Euro	1
	M99SA103	Guide for Alum L3700xØ4.5xØ2.5mm (1.2-1.6mm)-Euro	1
8	R41 1023	Torch bracket eBOT 67°	1
9	R75 0020	Direct adapter disc COBOT D50x4xM6	1
10	R75 0030	Direct adapter disc eBOT D50- Long.150mm	1



Pos.	CODE	TYPE	Min. Q.
1	R10 0011	Nozzle L76xØ15.5 mm	2
	R10 0012	Nozzle L76xØ13 mm	2
	R10 00211	Nozzle L79xØ15.5 mm	2
1.1	R10 0002	Insulator nozzle L32xØ20.75 mm	2
2	R10 0400 10	Contact tip M10 1.0 mm Cu-BICOMP	5
	R10 0400 12	Contact tip M10 1.2 mm Cu-BICOMP	5
	R10 0400 16	Contact tip M10 1.6 mm Cu-BICOMP	5
	R10 0401 08	Contact tip M10 0.8 mm CuCrZr	10
	R10 0401 10	Contact tip M10 1.0 mm CuCrZr	10
	R10 0401 12	Contact tip M10 1.2 mm CuCrZr	10
	R10 0401 16	Contact tip M10 1.6 mm CuCrZr	10
3	R12 0013	Diffuser L26xØ18.5 mm M10	2
4	R12 0308	Insulator neck L11xØ18.5 mm	2
5	R10 0401	O-ring neck Ø23 mm	10
6.1	R11 5220	Torch neck BASIC-52W 22° (X=50 mm, Z=263 mm)	1
6.2	R11 5450	Torch neck BASIC-52W 45° (X=111 mm, Z=227 mm)	1
7	R10 0115	Tip TCP M10-15mm programming	1



Torch neck BOT-T5W



TIG, TMAW, 141
IEC60974-7



Liquid



400A - CD 100%



300A - AC 100%



Ø 1.6-4.8 mm



4-12 l/min



The capacity will be reduced by 35% whit pulsed arc.

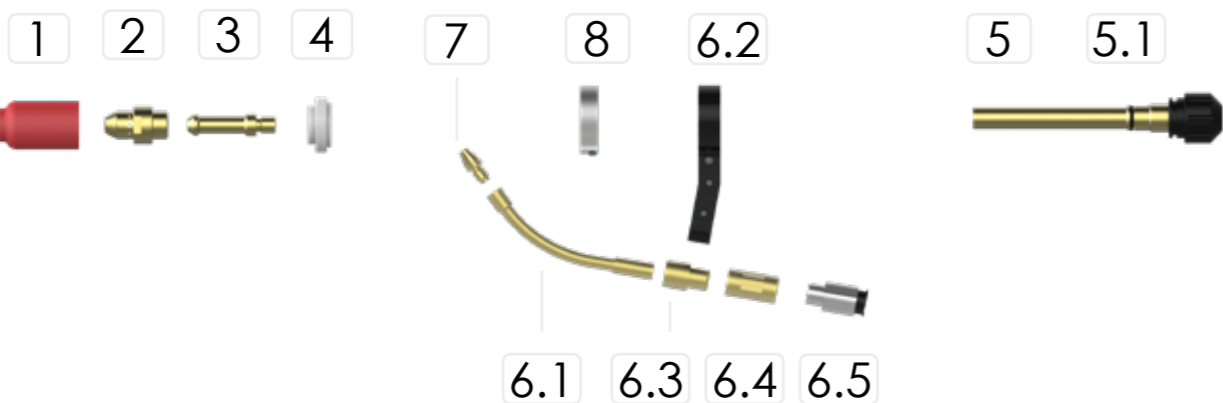


Manufacturing characteristics.

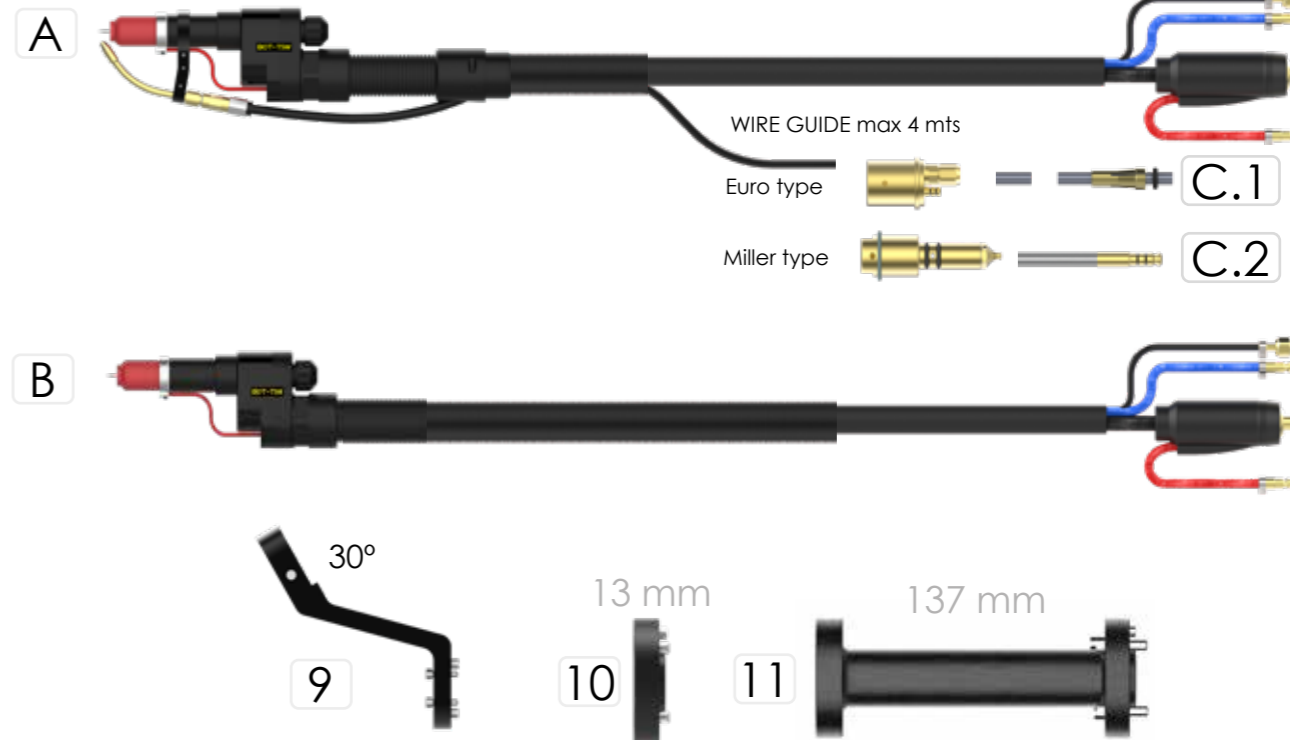
- ~Tungsten holders of large dimensions and high durability
- ~Ring improves HF stability
- ~Adjustment of the position of the supply wire
- ~Double insulation on handle and connection disk
- ~Medium working intensity
- ~Connector for anti-collision system

Applications

- ~Non-alloy and low alloy steels
- ~High alloy steels

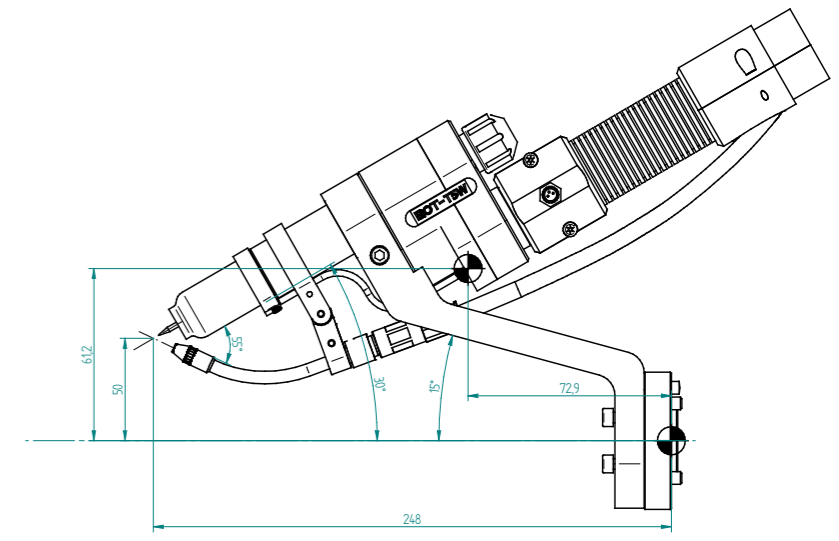


Pos.	CODE	TYPE	Min. Q.
1	T54N16	Nozzle G6	10
	T54N15	Nozzle G7	10
	T54N14	Nozzle G8	10
2	R15 5304	Diffuser M14 2.4mm	2
	R15 5305	Diffuser M14 3.2mm	2
3	R15 5524	Electrode holder 2.4 mm	2
	R15 5532	Electrode holder 3.2 mm	2
4	R15 5303	Insulator Nozzle	2
5	R15 5502	Clamping element	1
5.1	R15 0502	Oring clamping element	5
6.1	R15 0021	Wire guide	1
6.2	R15 0301	Support wire guide	1
6.3	R15 0024	Support liner	1
6.4	R15 0026	Liner Fixing nut support	1
6.5	R15 0027	Tube fitting D8	1
7	R15 0110	Tip Dia. 1.0 mm	5
	R15 0112	Tip Dia. 1.2 mm	5
8	R15 0603	HF protective ring	1



Pos.	CODE	TYPE	Min. Q.
A	R97 8xxx E	Welding torch TIG T5W - COLD WIRE Euro type	1
	R97 8xxx M	Welding torch TIG T5W -WIRE Miller type	1
B	R97 8xxx	Welding torch TIG T5W	1
C.1	M99 8002	Guide PA itBOT L2700xD4xD2mm(1.0-1.2)-Euro	1
	M99 8003	Guide PA itBOT L3700xD4xD2mm(1.0-1.2)-Euro	1
	M99 8004	Guide PA itBOT L4700xD4xD2mm(1.0-1.2)-Euro	1
C.2	M99 1502	Guide PA itBOT L2700xD4xD2mm(1.0-1.2)-Miller	1
	M99 1503	Guide PA itBOT L3700xD4xD2mm(1.0-1.2)-Miller	1
	M99 1504	Guide PA itBOT L4700xD4xD2mm(1.0-1.2)-Miller	1
9	R41 5001	Bracket TIG T5W 30°	1
10	R75 0021	Direct adapter disc insulator eBOT D50	1
11	R75 0031	Direct adapter disc TIG COBOT D50- Long.150mm	1

DATA	
Weight (kg)	1.320 kg
TCP mm (tool center point)	Y:50, Z:246
GC mm (gravity center)	Y:61 / Z:73



© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted



Fume extraction ASMIG



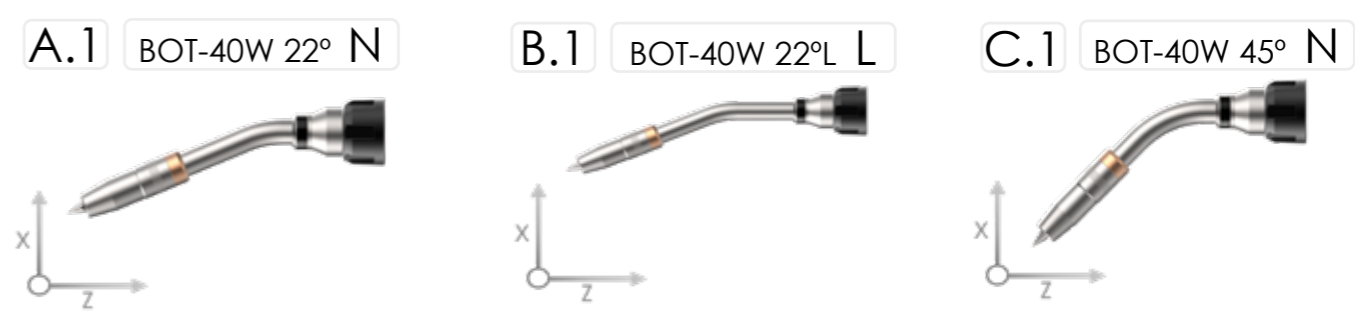
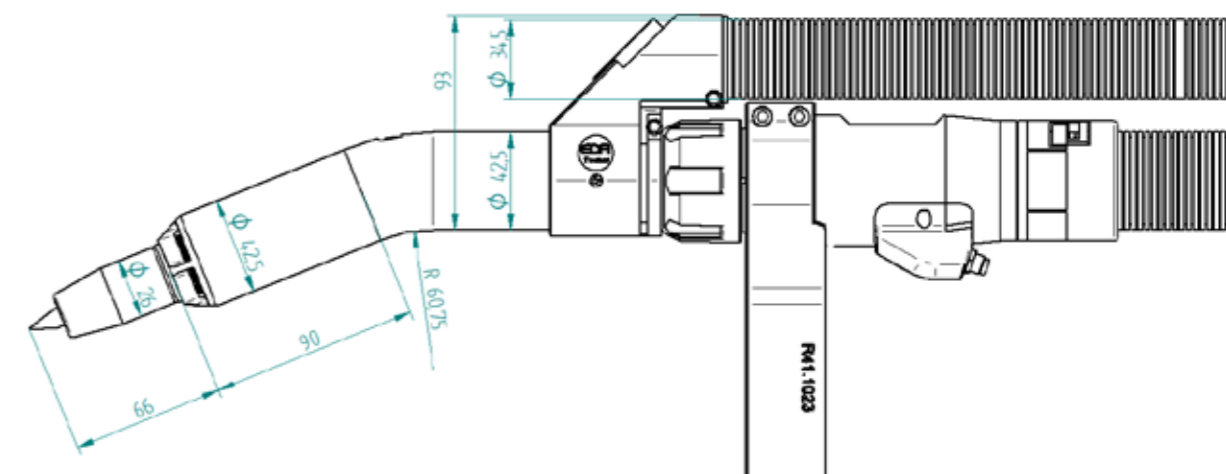
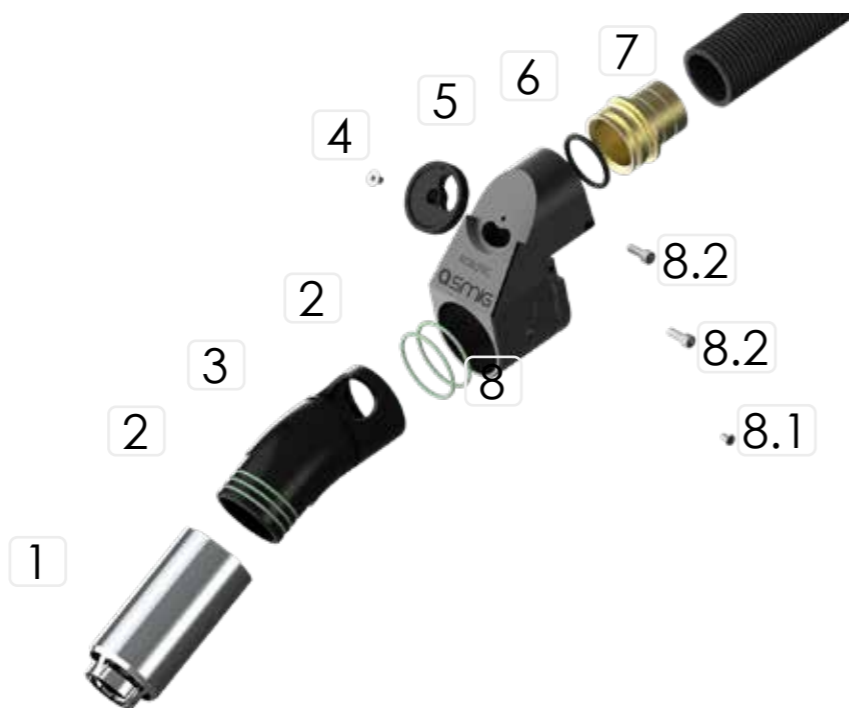
ASMIG is a welding fume extraction system for robotic torches of the BOT range, it is an external system that can be incorporated to any already installed torch of the BOT line, both in industrial ROBOTS and COBOTS.

The system can also be supplied with the torches already incorporated.

Several configurations of standard necks are available but can be ordered for other models of the BOT line upon request.



Pos.	CODE	TYPE	Min. Q.
A	R30 8022	ASMIG SYSTEM for Torch neck BOT-40W 22°	1
B	R30 8122	ASMIG SYSTEM for Torch neck BOT-40W 22°L	1
C	R30 8045	ASMIG SYSTEM for Torch neck BOT-40W 45°	1



Pos.	CODE	TYPE	Min. Q.
1	R30 8090	Nozzle ASMIG L90xØ42.5 mm (22°)	1
	R30 8055	Nozzle ASMIG L55xØ42.5 mm (45°)	1
2	R30 8005	Oring ASMIG Ø37 mm	10
3	R3 8022 01	Support tuber ASMIG 22G	1
	R3 8022 02	Support tuber ASMIG 22GL	1
	R3 8045 01	Support tuber ASMIG 45G	1
4	R3 8002 01	Tapa soporte ASMIG	1
5	R6 0203 02	Junta de cierre	4
6	R3 8002 04	Racor tubo ASMIG	1
7	R9 0210 09	Funda exterior D29 BOT	1
8	R3 8002	Soporte ASMIG	1
8.1	R5 1000 20	Tornillo brida IBOT M4x12	2
8.2	R8 0000 0203	tornillo soporte BOT M4x6	2

Pos.	CODE	TYPE	Min. Q.
A.1	R14 0220	Torch neck BOT-40W 22° (X=64 mm, Z=247 mm)-long type N	1
B.1	R14 0221	Torch neck BOT-40W 22°L (X=64 mm, Z=297 mm)-long type L	1
C.1	R14 0450	Torch neck BOT-40W 45° (X=111 mm, Z=217 mm)-long type N	1

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDRtorches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted



Cleaning station CS2



MIG/MAG INDUSTRIAL ROBOTS

- 6-8 bar * / Min flow 10 l/s
- 6.3 Nm - 425 rpm
- Time cut 0.5 seg
- Max. 1.6 mm (solid wire)
- Max. 3.2 mm (tubular wire)
- 0.5 l spatter
- +5 - +50C° (*) Oil-free compressed air

Nozzle cleaning station for automated and robotized welding torches. It incorporates welding wire cutting unit. Guarantees continuity of the welding process, keeping the nozzle of the welding torch free of slag and projections

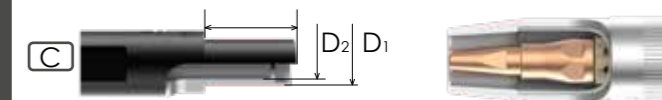
- ~Cleaning efficiency, short cycle time
- ~Total elimination of embedded projections
- ~Includes TCP programming verification point



Choose your reamer BOT series

BOT 30G / 42G	Nozzle L76xD13mm	Nozzle L76xD15.5mm	Nozzle L79xD15.5mm
	R03 2041	R03 2040	R03 2061
BOT 31EC / 32W	Nozzle L47xD13.5mm		
	R03 2030		
BOT 40W / 52W	Nozzle L76xD13mm	Nozzle L76xD15.5mm	Nozzle L79xD15.5mm
	R03 2041	R03 2040	R03 2042
BOT 41EC	Nozzle L76xD15.5mm		
	R03 2010		
BOT 50W	Nozzle L60xD15.5mm	Nozzle L60xD18mm	
	R03 2040	R03 2050	
BOT 60W	Nozzle L16xD15.5mm	Nozzle L16xD18mm	Nozzle L16xD21mm
	R03 2061	R03 2060	R03 2062

Reamer types for BOT - specific for the BOT series



Pos.	CODE	TYPE	Min. Q.
C	R03 2030	Cleaning reamer TH L23xD13xD8.5 mm	1
	R03 2010	Cleaning reamer EC TH L38.5xD15xD10.5 mm	1
	R03 2040	Cleaning reamer TH L26xD15xD10.5 mm	1
	R03 2041	Cleaning reamer TH L22xD12.5xD10.5 mm	1
	R03 2050	Cleaning reamer TH L26xD17.5xD10.5 mm	1
	R03 2060	Cleaning reamer TH L29xD17.5xD10.5 mm	bp

Standard reamer types



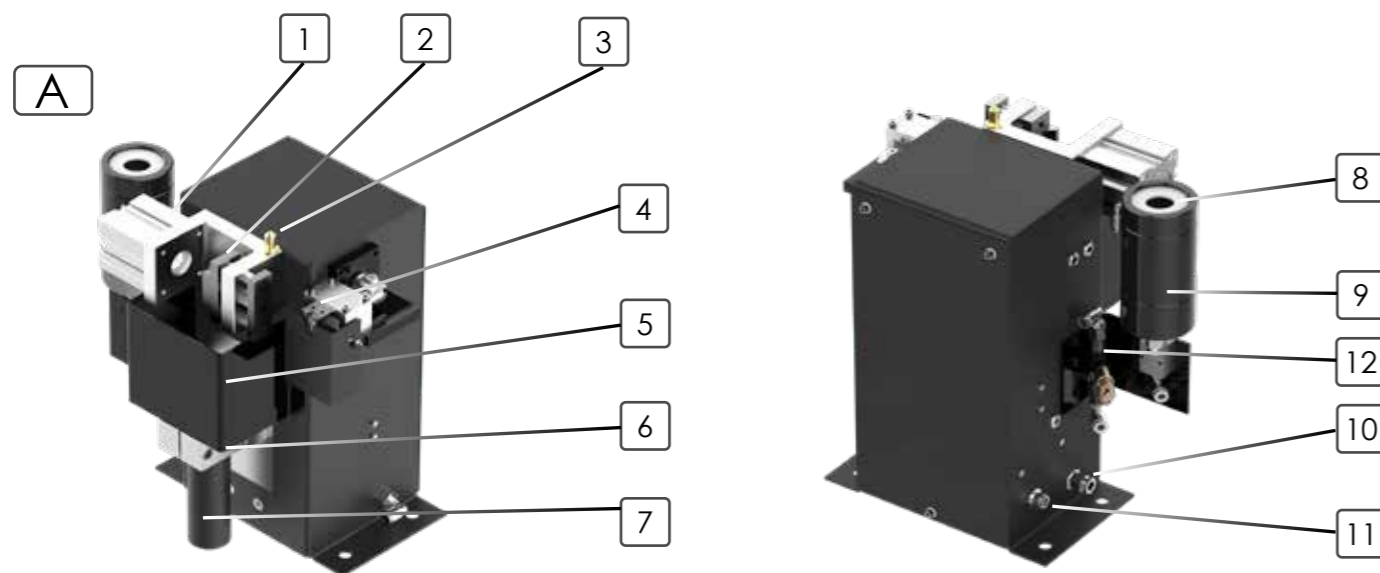
Code.	Nozzle inside	Contact tip mm	D1 mm	D2 mm	Min. Q.
R03 1107-40	12	6	11	7	bp
R03 1207-40	13	6	12	7	bp
R03 1209-40	13	8	12	9	bp
R03 1309-40	14	8	13	9	bp
R03 1409-40	15	8	14	9	bp
R03 1509-40	16	8	15	9	bp
R03 1210-40	13	9	12	10	bp
R03 1310-40	14	9	13	10	bp
R03 1410-40	15	9	14	10	bp
R03 1510-40	16	9	15	10	bp
R03 1411-40	15	10	14	11	bp
R03 1511-40	16	10	15	11	bp
R03 1611-40	17	10	16	11	bp
R03 1711-40	18	10	17	11	bp
R03 1713-40	18	12	17	13	bp

bp: product out of stock, manufacture on demand

© 2024 EDR torches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

© 2024 EDR torches, S.L. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted

Pos.	TYPE	CODE	Min. Q.
A	Clean station with wire cut (complete) + base	R02 2001	1



Pos.	CODE	Parts name	Functional descriptions	Min. Q.
1	R02 2P01	Clamping cylinder	Automatic clamping welding nozzle	1
2	R02 2P02	Locater block	Fixing welding gun sprayer nozzle	1
3	R02 2P03	TCP positioning pin	TCP positioning points	1
4	R02 2P04	Wire shearing device	Wiping out needless welding wire	1
5	R02 2P05	Reamer protective cover	Preventing ejection of splash	1
6	R02 2P06	Motor mounting base	Adjusting height of pneumatic motor	1
7	R02 2P07	pneumatic motor	Driving reamer for cleaning	1
8	R02 2P08	Spray protector	Protect losses of liquid spray	1
9	R02 2P09	Anti-sling Unit	Spraying anti-sling agent	1
10	R02 2P10	Air connection port	Connecting 8mm air pipe	1
11	R02 2P11	8-pin Aviation plug	Controlling interface by robot	1
12	R02 2P12	Pneumatic distributor	Liquid control anti spatter	1



CONTROL DISC FOR UR CD-2S



Free-drive control and waypoint recording.

440 gr - L42.5 x Ø94 mm

COMPATIBLE ROBOTS

Universal Robots UR3, UR5, UR10, UR3e, UR5e, UR10e

COMPATIBLE CONTROLLERS (others consult)

Universal Robots CB3.0, CB3.1, e-Series

COMPATIBLE SOFTWARE (others consult)

SW 3.6.1, SW 3.8.0, SW 5.0.3

Product in collaboration with



2.1

1

Pos.	CODE	TYPE	Min. Q.
1	R78 000C	CONTROL DISC CD-2S (includes code R7 3005 02)	1
2.1	R7 3005 02	DISC SCREW M6x50 mm DIN7991 (For standard disc)	1
	R7 3005 03	DISC SCREW M6x50 mm DIN912 (For long adapter disc, code R75 0030)	1

Description:

Control disc for the wrist of UR collaborative robot. Two illuminated push-buttons allow free-drive control and waypoint recording in an easy and comfortable way.

These push-buttons can also be used as inputs for the user program.

It includes URCap to be installed in the robot controller.

Usage:

As accessory for Universal Robots collaborative robots.

Main advantages:

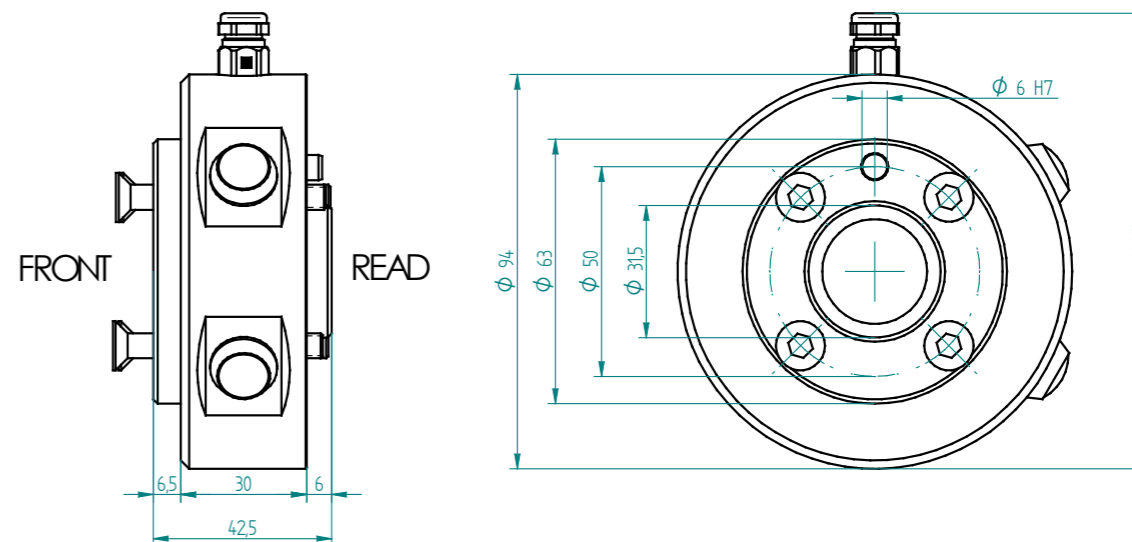
- Ergonomic. Designed for a comfortable use in the robot wrist.
- Light and strong. Machined aluminium body.
- Stylish design. Black anodized surface finished.
- Easy installation with four through-bolts. (Not included.)
- Two multi-function push-buttons with LED light.
- Easy to press buttons: Can be used with globes.

Functions with program stopped.

- Free-drive control. To adjust robot's pose with one hand.
- Waypoint recording. To add waypoints to the program.
- LEDs. Each button lights when its function is available.

Functions with program running.

- Programmable buttons. Continuation after pause, script launching, conditional programming, etc.
- Programmable LEDs. Script to configure mode and blink.





COVER ROBOT FOR UR



Fire protection cover for Universal Robots collaborative robots

Product in collaboration with



Flame retardant protection case consisting of 6 totally independent parts with each other. Made with Fortaglas® Aluminized, (*) fabric made of fiberglass filaments and textured, with a very thin sheet of aluminum. 100% polyester inner lining.

(*) Basic woven properties of Robot Case (TVL 119)
Fortaglas® Aluminizado are fabrics made of fiberglass and textured filaments, with a very thin sheet of aluminum incorporated on 1 side. For protection applications against radiant heat.

Fortaglas® meets the requirements of the most stringent English, European and international standards for flammability applications: BS476 part 7: 1987 Class 1 and BS476 part 6: 1989 Class 0

Pos.	CODE	TYPE COBOT	Min. Q.
1	R06 1016	UR 5 CB Series	1
	R06 1013	UR 5 e-Series	1
	R06 1001	UR 10 CB Series	1
	R06 1012	UR 10 e-Series	1

Description:

Protective cover for collaborative robots of the Universal Robots brand. Protection against typical incandescent welding splashes or environments where emery saw is being used. Protection against thermal radiation and UVA radiation ..

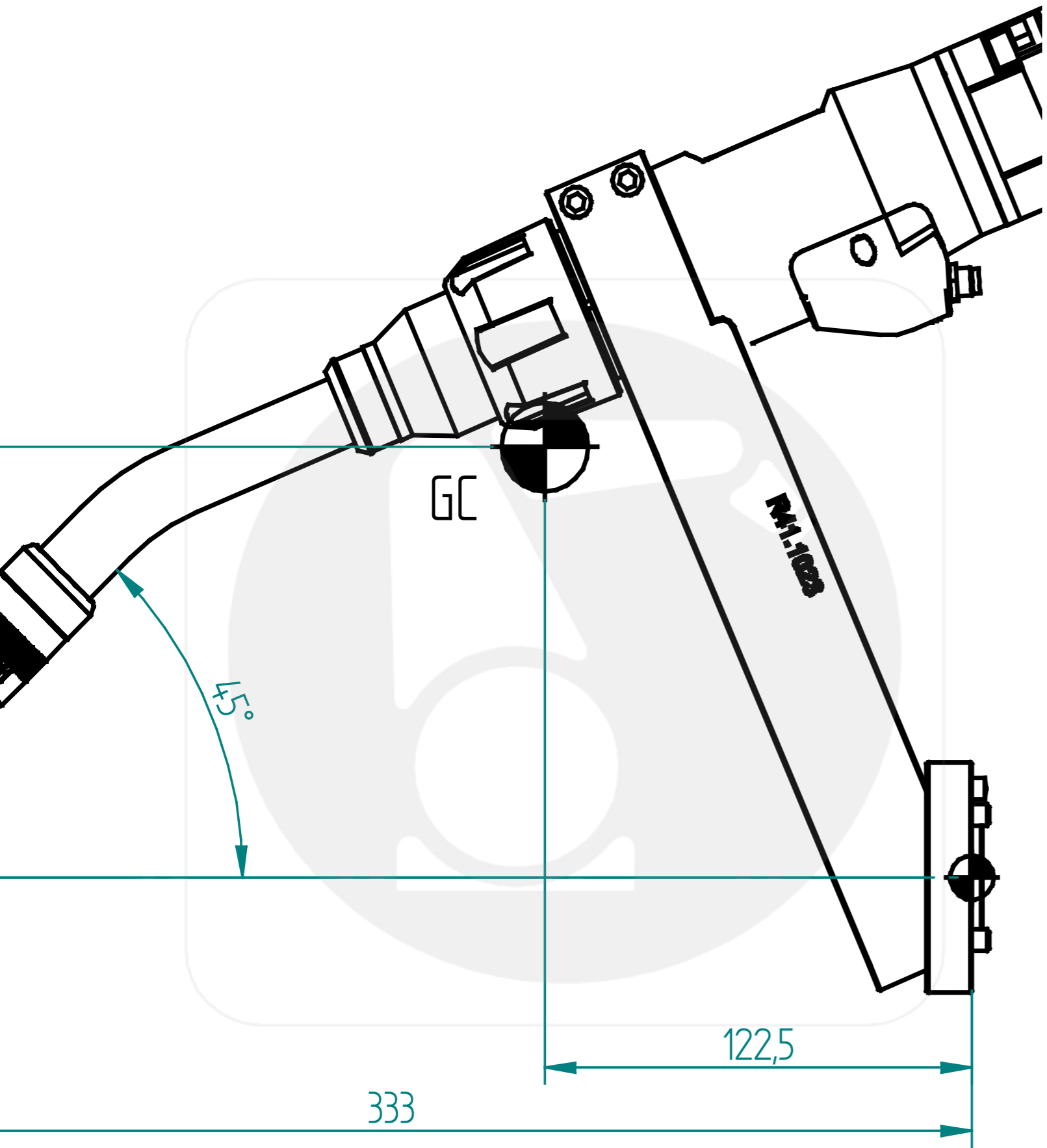
Use:

Industrial use in UR collaborative robots used in welding or in environments where hostile temperature conditions or process sparks exist

Main Advantages:

- Very low weight.
- Dimensions fully adjusted to the robot.
- Easy placement thanks to its velcro closures.
- Polyester inner lining. Anti-wear to friction.
- UV resistant.
- Resistant to high temperatures, 550°C in intermittent and 150°C in continuous.
- Resistant to welding splashes and flying sparks.

Weight	gr/m ²	300 ±10%
Thickness	mm	0.2 ±0.1
Fiberglass diam.	micra/micron	6-9
Weave		satin
Ends-picks 10cm- * Urdimbre / warp		170
* Weft		125
Strength warp	N/50mm	1300
Strength weft	N/50mm	1800
Service temperature		
* Short periods °C	°C	550
* Continuous	°C	150



Standard configuration data



COBOT 40W



The capacity will be reduced by 35% whit pulsed arc.



Welding process:

MIG/MAG, GMAW, 131,135

Tehcnical data according to IEC60974-7



Liquid



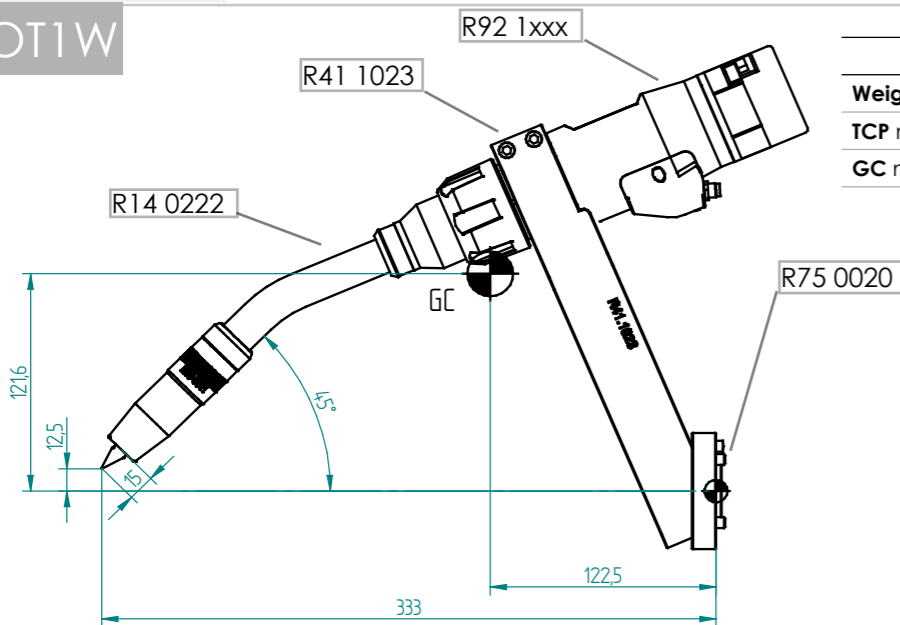
500 A - CO2 100%



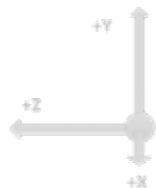
400 A - Mix M21 (ISO 14175) 100%



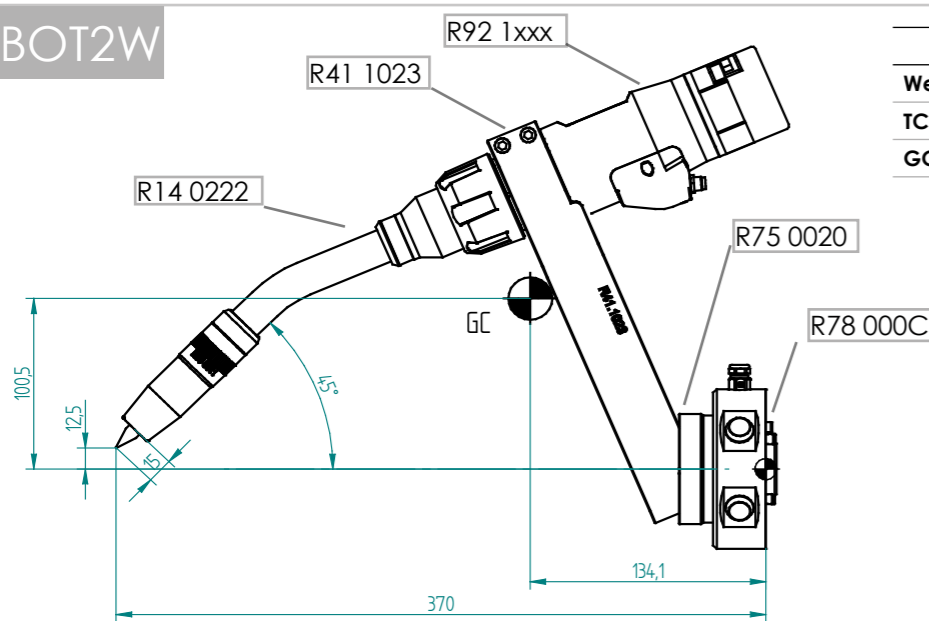
BOT1W



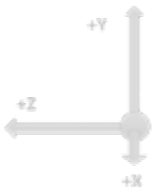
DATA	
Weight (kg)	2.10
TCP mm (tool center point)	Y:12.5, Z:333
GC mm (gravity center)	Y:121.6 / Z:122.5



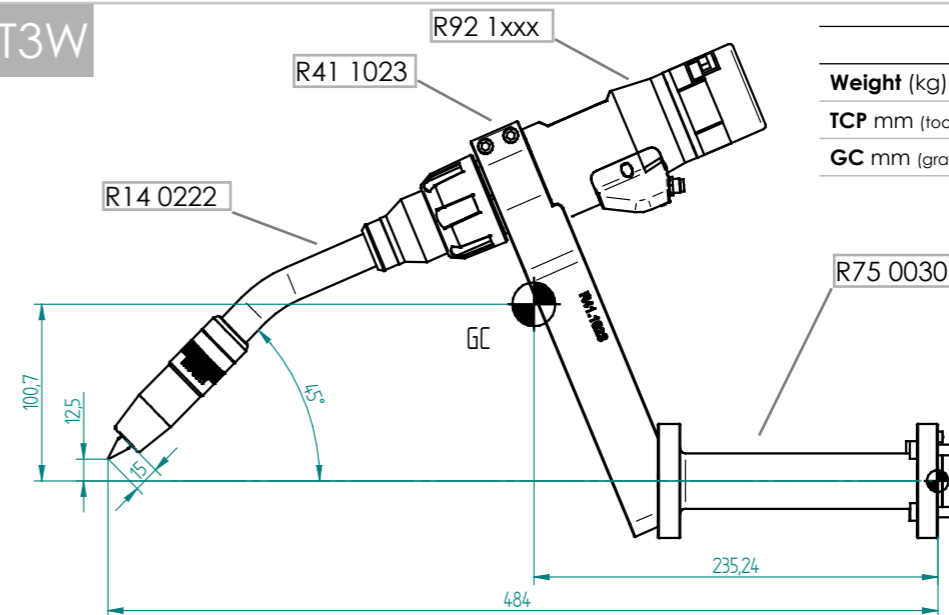
BOT2W



DATA	
Weight (kg)	2.54
TCP mm (tool center point)	Y:12.5, Z:520
GC mm (gravity center)	Y:100.5 / Z:134.1



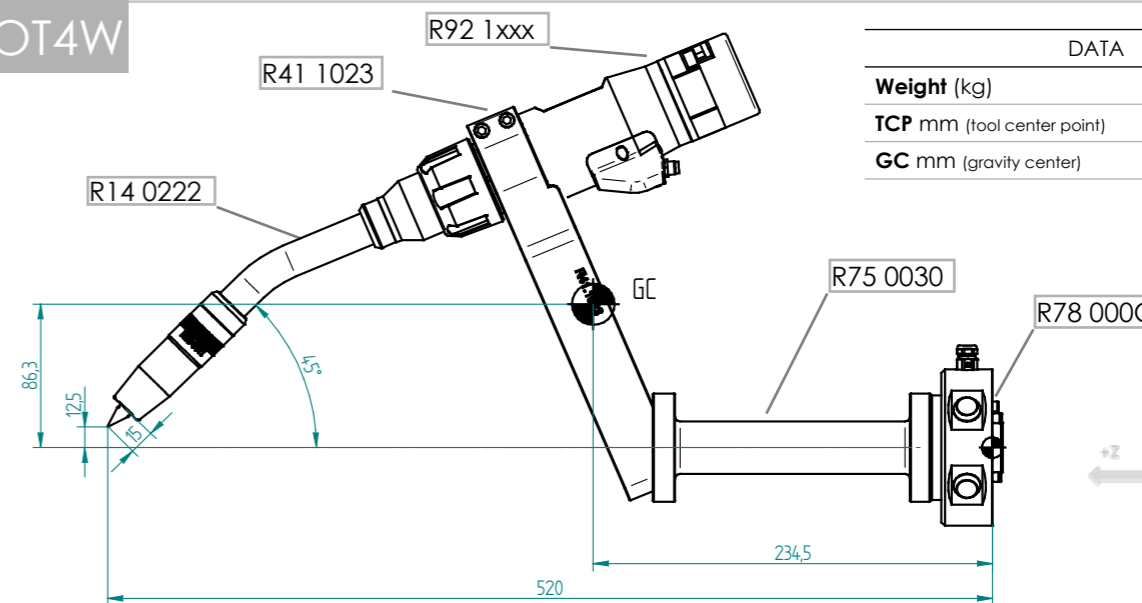
BOT3W



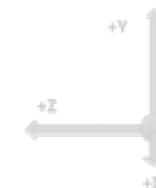
DATA	
Weight (kg)	2.54
TCP mm (tool center point)	Y:12.5, Z:484
GC mm (gravity center)	Y:100.7 / Z:235.24



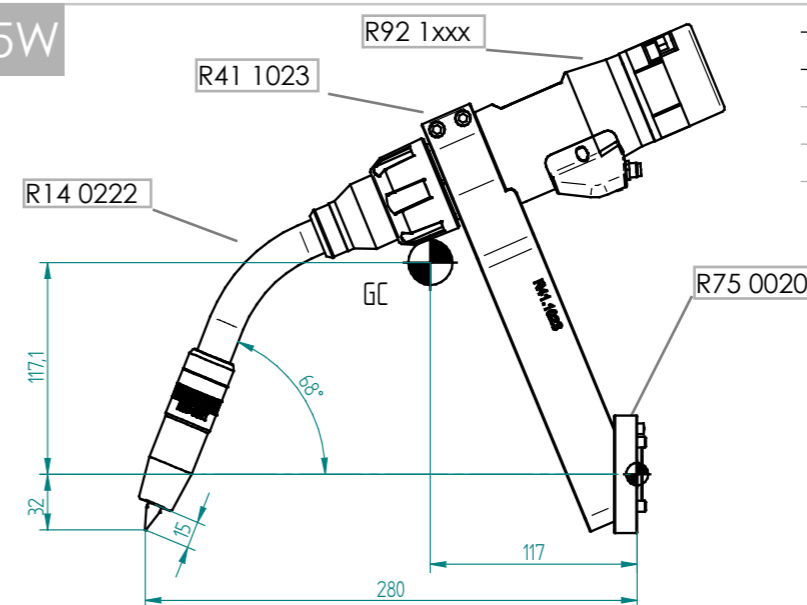
BOT4W



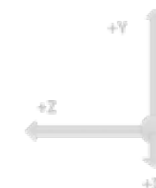
DATA	
Weight (kg)	2.97
TCP mm (tool center point)	Y:12.5, Z:520
GC mm (gravity center)	Y:86.3 / Z:234.5



BOT5W



DATA	
Weight (kg)	2.10
TCP mm (tool center point)	Y:-32 / Z:280
GC mm (gravity center)	Y:117.1 / Z:117





BASIC 52W



The capacity will be reduced by 35% with pulsed arc.



Welding process:
MIG/MAG, GMAW, 131,135
Technical data according to IEC60974-7



Liquid



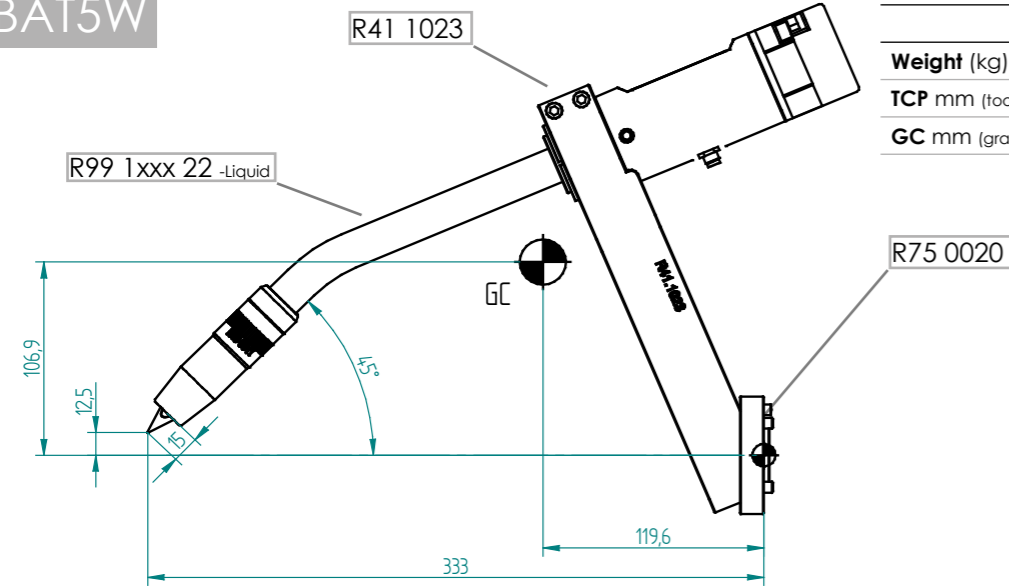
500 A - CO2 100%



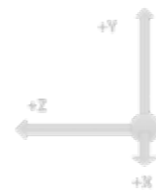
400 A - Mix M21 (ISO 14175) 100%



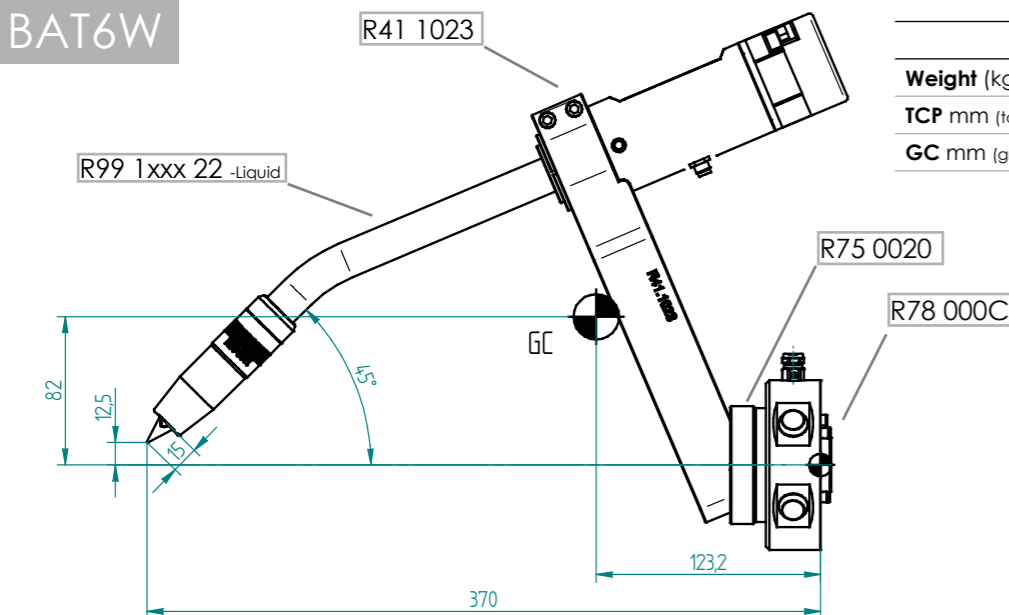
BAT5W



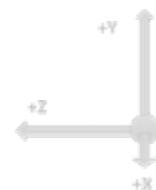
DATA	
Weight (kg)	1.44
TCP mm (tool center point)	Y:12.5 / Z:333
GC mm (gravity center)	Y:106.9 / Z:119.6



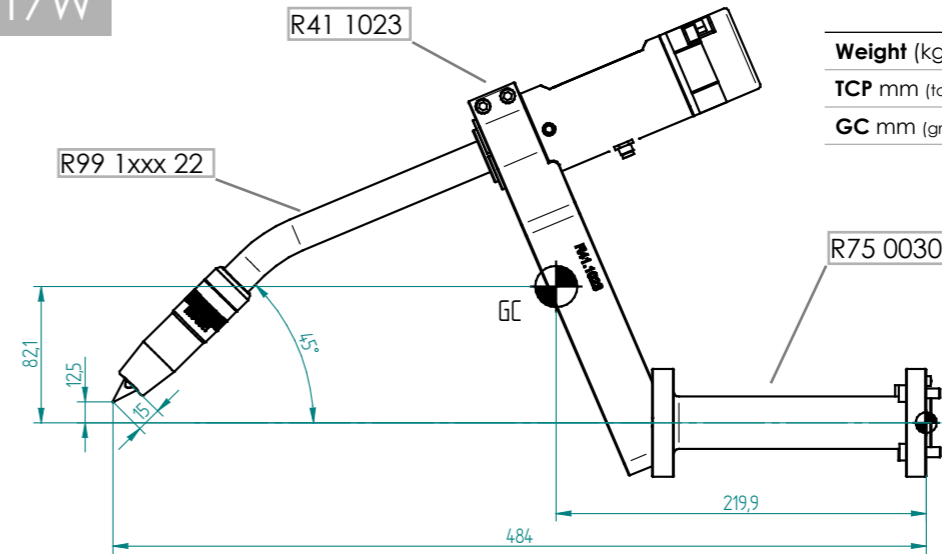
BAT6W



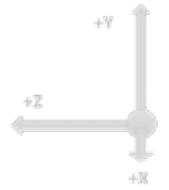
DATA	
Weight (kg)	1.89
TCP mm (tool center point)	Y:12.5 / Z:370
GC mm (gravity center)	Y:82 / Z:123.2



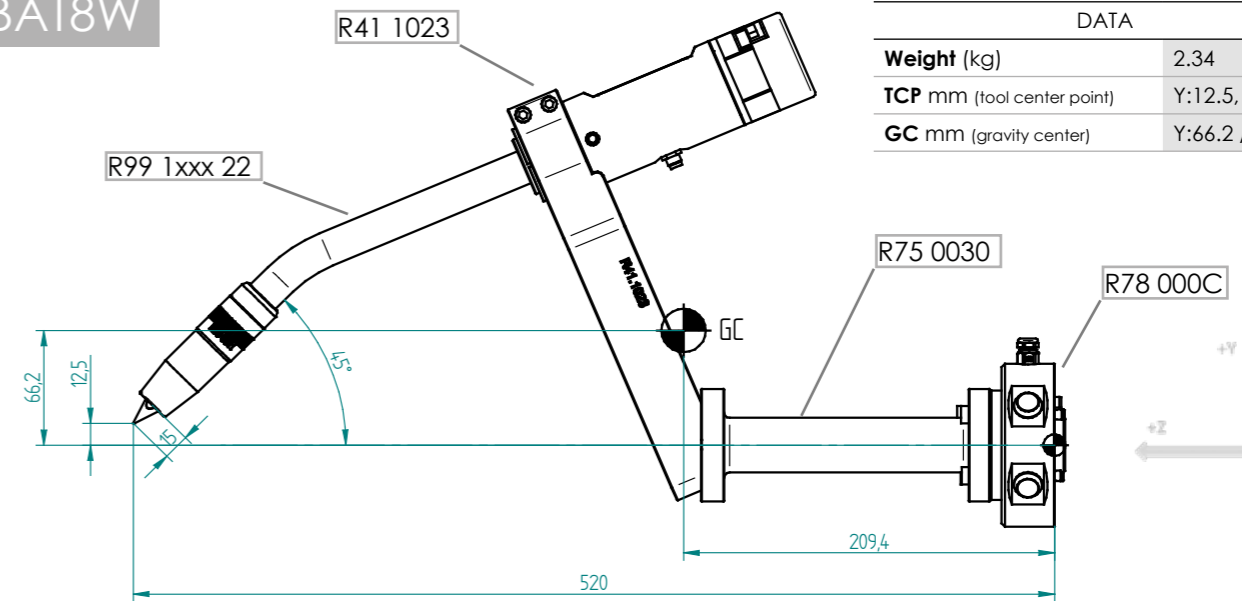
BAT7W



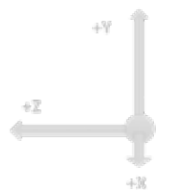
DATA	
Weight (kg)	1.88
TCP mm (tool center point)	Y:12.5, Z:484
GC mm (gravity center)	Y:82.1 / Z:219.9



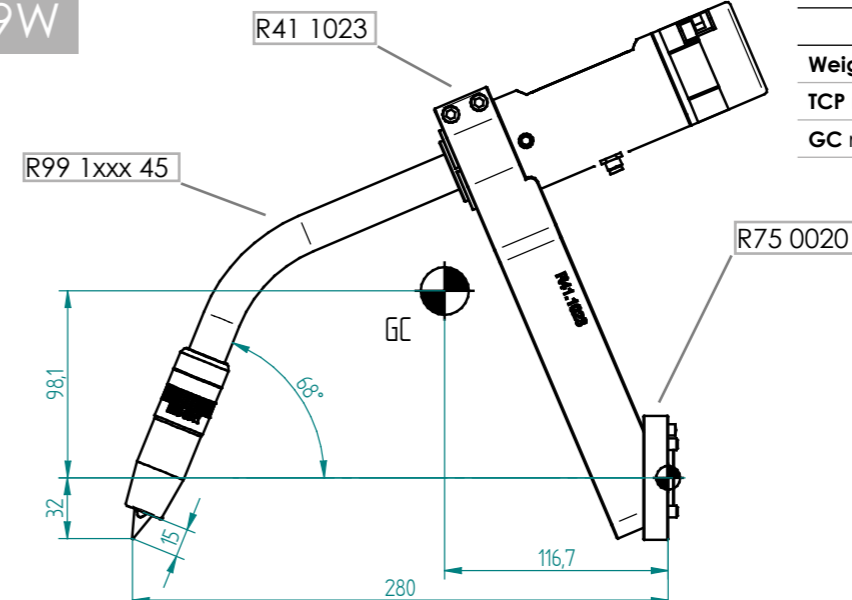
BAT8W



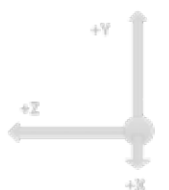
DATA	
Weight (kg)	2.34
TCP mm (tool center point)	Y:12.5, Z:520
GC mm (gravity center)	Y:66.2 / Z:209.4



BAT9W



DATA	
Weight (kg)	1.44
TCP mm (tool center point)	Y:-32 / Z:280
GC mm (gravity center)	Y:98.1 / Z:116.7



Robotic welding torches

Collaborative robots



EDRtorches, S.L.
Calle Miguel Angel Blanco 28. 46138
Rafelbuñol - Valencia Spain.
www.edrtorches.com
info@edrtorches.com
Tel. 0034 963 558 893