

MIG/MAG Welding Torches "ABIMIG®" liquid cooled

Rating 300 A up to 600 A

The tried and tested MIG/MAG Welding Torches ABIMIG® liquid cooled cover the rating spectrum up to 600 A. The handle concept ABIMIG® makes it possible to integrate all common switch and control functions.

- Dual cooling circuit for optimized torch cooling – extended service life of wear and spare parts
- Welding applications up to 600 A – excellent welding results for pulse applications
- Technically proven – 100% reliable

- Standard MB wear parts for ABIMIG® 452 – reduced stocking costs
- Split gas nozzle as well as optimally cooled gas nozzle seat on ABIMIG® 645 guarantee best possible welding results even in high performance applications
- Time-saving torch change-over due to the ABICOR BINZEL central connector



*** Note:**

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

ABIMIG® 452 D W*

Technical data (EN 60 974-7):

Rating: 450 A DC
300 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

Wire size: 0.8–1.6 mm

ABIMIG® 452 W*

Technical data (EN 60 974-7):

Rating: 500 A DC
325 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

Wire size: 0.8–1.6 mm

ABIMIG® 645 W*

Technical data (EN 60 974-7):

Rating: 600 A DC
450 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

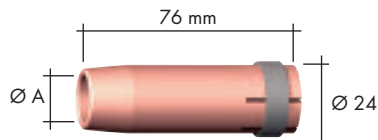
Wire size: 0.8–1.6 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® 452 D W	Type AM	766.0400	766.0401	766.0402	50°	766.0350
ABIMIG® 452 W	Type AM	766.0412	766.0413	766.0414	50°	766.0390
ABIMIG® 645 W	Type AM	766.0406	766.0407	766.0408	50°	766.0370

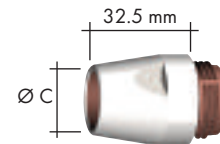
ABIMIG® 452, ABIMIG® 645

Wear parts

ABIMIG® 452 D W ABIMIG® 452 W

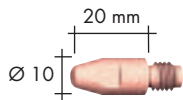


ABIMIG® 645 W

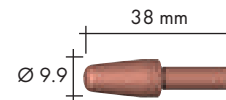


Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 20	145.0051	Ø 19	766.1075 (1 pc.)
Conical	Ø 16	145.0085	Ø 16	766.1074 (1 pc.)
Conical	Ø 14	145.0132	-	-

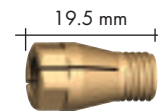
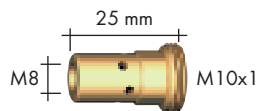


M8



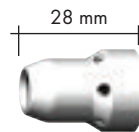
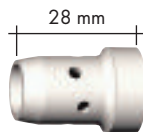
Contact tip (10 pcs.)

E-Cu	Ø 0.8	140.0114	-
	Ø 1.0	140.0313	-
	Ø 1.2	140.0442	-
	Ø 1.6	140.0587	-
E-Cu for Al	Ø 0.8	141.0003	-
	Ø 1.0	141.0008	-
	Ø 1.2	141.0015	-
	Ø 1.6	141.0022	-
CuCrZr	Ø 0.8	140.0117	140.1310
	Ø 1.0	140.0316	140.1312
	Ø 1.2	140.0445	140.1313
	Ø 1.6	140.0590	140.1315



Contact tip holder / Collet chuck (10 pcs.)

Contact tip holder M8	142.0022 (only for version D)	-
Collet chuck	-	766.1051



Gas diffuser (10 pcs.)

Standard	030.0145	766.1095
Long life	030.0037	766.1078
Ceramic	030.0190	766.1135
Ceramic L / Adapter	-	-

Liner	for 3 m				for 4 m				for 5 m			
	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6
Liner	Ø 0.8	124.0137	124.0138	124.0139	124.0137	124.0138	124.0139	124.0139	124.0137	124.0138	124.0139	124.0139
	Ø 1.0	124.0111	124.0112	124.0113	124.0111	124.0112	124.0113	124.0113	124.0111	124.0112	124.0113	124.0113
	Ø 1.2	124.0111	124.0112	124.0113	124.0111	124.0112	124.0113	124.0113	124.0111	124.0112	124.0113	124.0113
	Ø 1.6	124.0114	124.0115	124.0116	124.0114	124.0115	124.0116	124.0116	124.0114	124.0115	124.0116	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011	126.0005	126.0008	126.0011	126.0011	126.0005	126.0008	126.0011	126.0011
	Ø 1.0	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028	126.0028	126.0021	126.0026	126.0028	126.0028
	Ø 1.2	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028	126.0028	126.0021	126.0026	126.0028	126.0028
	Ø 1.6	126.0039	126.0042	126.0045	126.0039	126.0042	126.0045	126.0045	126.0039	126.0042	126.0045	126.0045
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004	127.0002	127.0003	127.0004	127.0004	127.0002	127.0003	127.0004	127.0004
	Ø 1.0	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008	127.0008	127.0005	127.0007	127.0008	127.0008
	Ø 1.2	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008	127.0008	127.0005	127.0007	127.0008	127.0008
	Ø 1.6	127.0010	127.0012	127.0013	127.0010	127.0012	127.0013	127.0013	127.0010	127.0012	127.0013	127.0013

