TIG WELDING TORCHES **ABITIG® MT**

ABITIG® 150 MT ▪ ABITIG® 260 W MT

Advantages of the machine torches ABITIG® MT

- BINZEL style wear part concept
- With pre-settable tungsten electrode for quick, easy and repeatable electrode exchange (ABITIG® 200 MT/300 W MT/450 W MT)
- Cable assembly for all common TIG welding power sources
- Compact design and robust construction

All documents in one place: ABIDOC



ABITIG® 260 W MT

ABITIG® 150 MT

Special wear parts and torch mounts see page 158

110–260 A

ABITIG® 150 MT

Rating:	150 A DC
	110 A AC
Duty cycle:	60 %
Tungsten electrodes Ø:	1.0–3.2 mm

ABITIG® 260 W MT

Rating:	260 A DC
	180 A AC
Duty cycle:	100 %
Tungsten electrodes Ø:	1.0–3.2 mm

Description		**Torch body**	
Type	Cooling	Version	Part-No.
ABITIG® 150 MT	gas cooled	Standard – 214.0 mm	778.1020
ABITIG® 260 W MT	liquid cooled	Standard – 214.0 mm	779.1020

Technical data according to EN 60 974-7

Due to the different connection variants on the machine side, it is not possible to list part numbers for complete torches. Please contact our sales department.

Wear parts



Guide tube (1 pc.)	
	779.1030







Electrode holder / Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser Multilayer
Ø 1.0 mm	776.0061	776.0171	777.0171.5
Ø 1.6 mm	776.0062	776.0172	777.0172.5
Ø 2.0 mm	776.0067	776.0177	777.0177.5
Ø 2.4 mm	776.0063	776.0173	777.0173.5
Ø 3.2 mm	776.0064	776.0174	777.0174.5



Insulator (1 pc.)	
	779.1043







Gas nozzle, ceramic (10 pcs.)	Standard version	Ball version	Long version	
			X = 36 mm	X = 60 mm
Ø 6.5 mm	777.0081	770.0081.10	777.2171	777.2175
Ø 8.0 mm	777.0082	770.0082.10	777.2172	777.2176
Ø 9.5 mm	777.0083	770.0083.10	777.2173	–
Ø 11.0 mm	777.0084	770.0084.10	777.2174	–

TIG WELDING TORCHES **ABITIG® MT**

ABITIG® 200 MT ▪ ABITIG® 300 W MT ▪ ABITIG® 450 W MT

All documents in one place: ABIDOC



ABITIG® 200 MT
ABITIG® 300 W MT

ABITIG® 450 W MT

Torch mounts see page 159

140–450 A

ABITIG® 200 MT
Rating: 200 A DC / 140 A AC
Duty cycle: 60 %
Tungsten Electrodes Ø: 1.6–4.0 mm

ABITIG® 300 W MT
Rating: 300 A DC / 210 A AC
Duty cycle: 100 %
Tungsten Electrodes Ø: 1.6–4.8 mm

ABITIG® 450 W MT
Rating: 450 A DC / 320 A AC
Duty cycle: 100 %
Tungsten electrodes Ø: 1.6–4.8 mm

Description		**Torch body**	
Type	Cooling	Version	Part-No.
ABITIG® 200 MT	gas cooled	Standard – 249.0 mm	778.2020
ABITIG® 300 W MT	liquid cooled	Standard – 249.0 mm	779.2020
ABITIG® 450 W MT	liquid cooled	Standard – 255.0 mm	779.2019.1

Technical data according to EN 60 974-7
Due to the different connection variants on the machine side, it is not possible to list part numbers for complete torches. Please contact our sales department.



Guide tub (1 pc.)	
	778.1030



Collet (1 pc.)	
	778.1140







Electrode holder / Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser Multilayer
Ø 1.6 mm	775.0062	773.0172	773.0112.5
Ø 2.0 mm	775.0067	773.0177	–
Ø 2.4 mm	775.0063	773.0173	773.0113
Ø 3.2 mm	775.0064	773.0174	773.0114
Ø 4.0 mm	775.0065	773.0175	–
Ø 4.8 mm	775.0066	773.0176	–





Insulator (1 pc.)		
	775.1043	779.6033









Gas diffuser, ceramic (10 pcs.)	Standard version		Long version	Short version	Standard version
	X = 26 mm	X = 37 mm			
Ø 7.5 mm	–	775.0081	775.2171	–	–
Ø 10.0 mm	775.0152	775.0082	775.2172	–	–
Ø 12.5 mm	–	–	–	–	778.1183
Ø 13.0 mm	775.0153	775.0083	775.2173	–	–
Ø 13.0 mm (boosted)	–	775.0183	–	–	–
Ø 15.0 mm	–	775.0084	775.2174	–	–
Ø 15.0 mm (boosted)	–	775.0184	–	–	–
Ø 16.0 mm	–	–	–	–	778.1184
Ø 19.5 mm	–	–	–	–	778.1188
Ø 24.0 mm	–	–	–	778.1189	–



Setting gauge (1 pc.)
778.1157

Further options, e. g. the "Jumbo" version up to ND 24 or metal gas nozzles, please see chapter 10 of our spare parts list – this you can find in the download area of our website www.binzel-abicor.com.

TIG WELDING TORCHES **ABITIG® MT**

ABITIG® 400 W MT ▪ ABITIG® 500 W MT

All documents in one place: ABIDOC



ABITIG® 500 W MT

ABITIG® 400 W MT

280–500 A

Special wear parts and torch mounts see page 159

ABITIG® 400 W MT

Rating:	400 A DC
	280 A AC
Duty cycle:	100 %
Tungsten electrodes Ø:	1.6–4.8 mm

ABITIG® 500 W MT

Rating:	500 A DC
	350 A AC
Duty cycle:	100 %
Tungsten electrodes Ø:	1.6–6.4 mm

Description		**Torch body**	
Type	Cooling	Version	Part-No.
ABITIG® 400 W MT	liquid cooled	Standard – 228.0 mm	779.4020
ABITIG® 500 W MT	liquid cooled	Standard – 265.0 mm	779.6020

Technical data according to EN 60 974-7

Due to the different connection variants on the machine side, it is not possible to list part numbers for complete torches. Please contact our sales department.

Wear parts | **ABITIG® 400 W MT** | **ABITIG® 500 W MT**





Guide tube (1 pc.)		
	779.4030	779.6026



56 mm



48 mm



58 mm



55 mm

Electrode holder / Gas diffuser (5 pcs.)	Electrode holder (5 pcs.)	Gas diffuser (5 pcs.)	Electrode holder (1 pc.)	Gas diffuser (1 pc.)
Ø 1.6 mm	775.0062	773.0172	779.6044	779.6058
Ø 2.0 mm	775.0067	773.0177	779.6049	779.6063
Ø 2.4 mm	775.0063	773.0173	779.6045	779.6059
Ø 3.2 mm	775.0064	773.0174	779.6046	779.6060
Ø 4.0 mm	775.0065	773.0175	779.6047	779.6061
Ø 4.8 mm	775.0066	773.0176	779.6048	779.6062
Ø 6.4 mm	–	–	779.6050	779.6064





Insulator (1 pc.)		
	779.4043	779.6033



X mm



52 mm



34 mm



50 mm

Gas diffuser, ceramic (10 pcs.)			Long version	Short version	Standard version
	X = 26 mm	X = 37 mm			
Ø 7.5 mm	–	775.0081	775.2171	–	–
Ø 10.0 mm	775.0152	775.0082	775.2172	–	–
Ø 12.5 mm	–	–	–	–	778.1183
Ø 13.0 mm	775.0153	775.0083	775.2173	–	–
Ø 13.0 mm (reinforced)	–	775.0183	–	–	–
Ø 15.0 mm	–	775.0084	775.2174	–	–
Ø 15.0 mm (reinforced)	–	775.0184	–	–	–
Ø 16.0 mm	–	–	–	–	778.1184
Ø 19.5 mm	–	–	–	–	778.1188
Ø 24.0 mm	–	–	–	778.1189	–

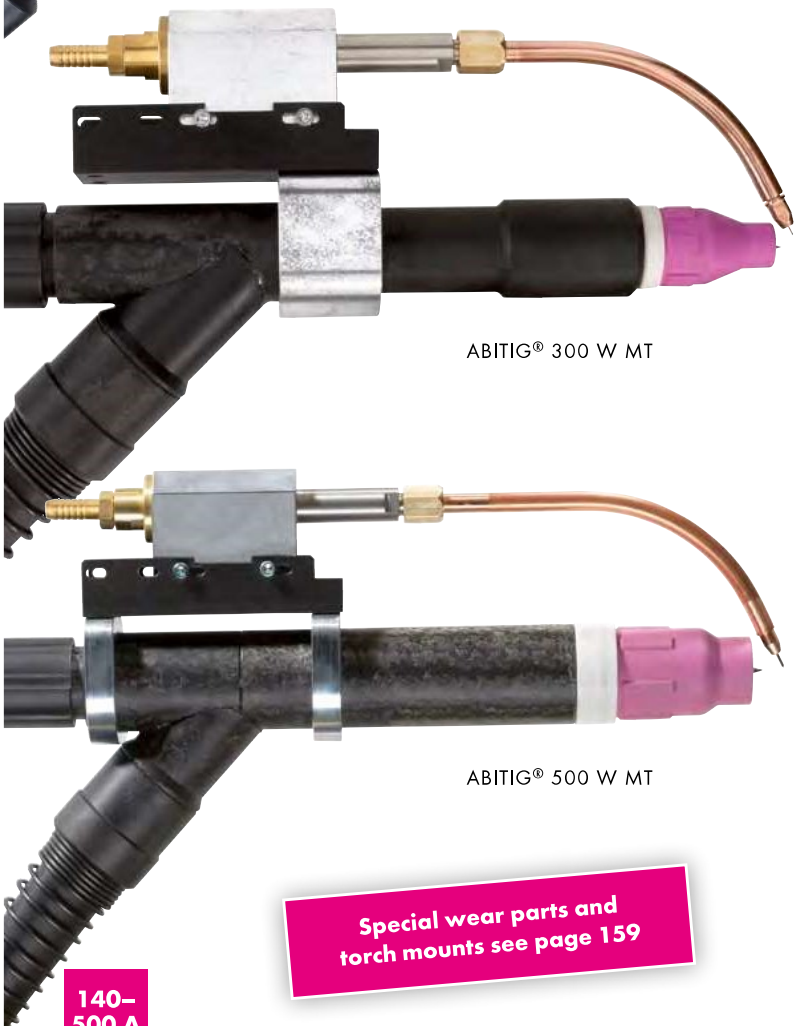
TIG WELDING TORCHES **ABITIG®** ▪ **ABITIG® MT** WITH COLD WIRE FEED

All documents in one place: ABIDOC

- BINZEL style wear part concept
- Three-dimensionally adjustable
- Perfect fit for every wire diameter
- Robust and precise



ABITIG® GRIP 450 W



ABITIG® 300 W MT

ABITIG® 500 W MT

Special wear parts and torch mounts see page 159

140–500 A

ABITIG® 200 MT / ABITIG® GRIP 200*

Rating:	200 A DC
	140 A AC
Duty cycle:	35 %
Tungsten electrodes:	Ø 1.6–3.2 mm

ABITIG® 260 W MT / ABITIG® GRIP 260 W*

Rating:	260 A DC
	180 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.0–3.2 mm

ABITIG® 300 W MT*

Rating:	300 A DC
	210 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.6–4.8 mm

ABITIG® 400 W MT*

Rating:	400 A DC
	280 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.6–4.8 mm

ABITIG® GRIP 450 W*

Rating:	400 A DC
	280 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.6–4.8 mm

ABITIG® 500 W MT*

Rating:	500 A DC
	350 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.6–6.4 mm

*Technical data according to EN 60 974-7

Due to the different connection variants on the machine side, it is not possible to list part numbers for complete torches. Please contact our sales department.

Torches complete

TIG Manual Welding Torches ABITIG® with cold wire feed			
Type	Cooling	Version	Part-No.
ABITIG® GRIP 200	gas cooled	4 m BIS-V2, BHC-12, GZ, with cold wire feed*	525.2097.1
ABITIG® GRIP 260 W	liquid cooled	4 m BIS-V2, BHC-12, WZ, with cold wire feed*	525.2092.1
ABITIG® GRIP 450 W	liquid cooled	4 m BIS-V2, BHC-12, WZ, with cold wire feed*	525.2094.1

These cable assemblies are configured exclusively for use with ABIDRIVE V2 – an intermediate cable assembly is required. Our standard cable assemblies and the retrofit kits listed below are available for use with systems from other manufacturers.

TIG Machine Welding Torches ABITIG® with cold wire feed			
Type	Cooling	Version	Part-No.
ABITIG® 200 MT	gas cooled	4 m with cold wire feed*	525.1015
ABITIG® 260 W MT	liquid cooled	4 m with cold wire feed*	525.1018
ABITIG® 300 W MT	liquid cooled	4 m with cold wire feed*	525.1023
ABITIG® 400 W MT	liquid cooled	4 m with cold wire feed*	525.1026
ABITIG® 500 W MT	liquid cooled	4 m with cold wire feed*	525.1042.1

These cable assemblies are configured exclusively for use with ABIDRIVE V2 – an intermediate cable assembly is required. Our standard cable assemblies and the retrofit kits listed below are available for use with systems from other manufacturers.

Retrofit kits

Retrofit kits	
Description	Part-No.
Cold wire feeding compl. for ABITIG® 260 W (gas nozzle L = 36 mm)*	729.0084
Cold wire feeding compl. for ABITIG® 450 W (gas nozzle L = 37 mm)*	729.0070
Cold wire feeding compl. for ABITIG® MT 260 W / 300 W / 400 W*	779.6514.1
Cold wire feeding compl. for ABITIG® MT 500 W*	779.6500
Wire conduit ABIDRIVE (L = 6.00 m) incl. fastening material applicable for all retrofit kits	525.1014

*including cold wire feeding tip 1.0 mm

Wear parts

Cold wire feeding tip	ABITIG®	ABITIG® MT
Diameter	Part-No. (2 pcs.)	Part-No. (5 pcs.)
Ø 0.8 mm	729.0092.2	967.0329
Ø 1.0 mm	729.0093.2	967.0330
Ø 1.2 mm	729.0094.2	967.0331
Ø 1.6 mm	729.0095.2	967.0332

Cold wire feeding		
Type	Description	Part-No.
ABITIG®	Cold wire guide liner 2.0x4.5 mm (L=0.45 m)	729.0080
	Double nipple	729.0057
ABITIG® MT	Cold wire feeding tube for ABITIG® MT 260 W / 300 W / 400 W	779.6513.1
	Cold wire feeding tube for ABITIG® MT 500 W	967.0326
	optional: Cold wire feeding tube for ABITIG® MT 500 W – liquid cooled	779.6505

Wire guides	
Description	Part-No.
Carbon PTFE core liner 2.0/4.0; Wire-Ø 1.0–1.2; for 4.00 m	127.0007
Polyamid core liner 2.0/4.0; Wire-Ø 1.0–1.2; for 4.00 m	128.0015
Polyamid core liner 2.0x4.0; Wire-Ø 1.0–1.2; for 6.00 m	128.0017
Polyamid core liner 2.3x4.7; Wire-Ø 1.6; for 6.00 m	128.0037