



# WELDING TORCHES BINZEL STYLE

# TIG WELDING TORCHES **BINZEL** STYLE

## **BINZEL** style:

- ✓ **Optimized cooling concept**
- ✓ **Improved gas coverage**
- ✓ **Less wear parts**

## **Optimized cooling concept**

All BINZEL style TIG welding torches score with improved heat dissipation, which significantly increases the service life. This is achieved by reducing the distance between the cooling system and the current-transmitting and therefore hot surface, the significantly larger cooling surface and a better coolant flow. Another advantage of this torch system is the improved current transfer due to the larger surface area.

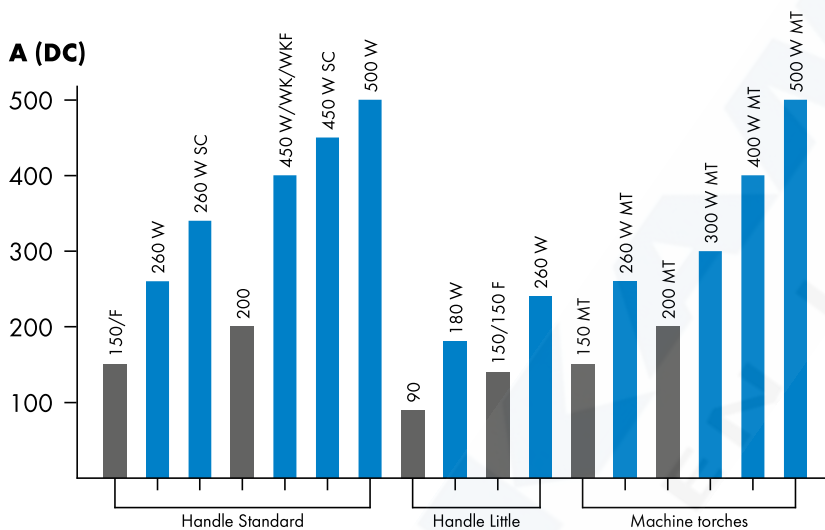
## **Improved gas coverage**

An optimized, unique design of the torch components guarantees ideal shielding gas coverage. The gas flow is virtually turbulence-free and enables outstanding welding results.

## **Less wear parts**

All BINZEL style TIG torches have a reduced wear parts concept. The result for you is less parts for maintenance, faster replacement and lower storage costs.

## Overview of rating ABITIG® welding torches **BINZEL**-Style



GAS COOLED LIQUID COOLED

- 2K handle with grip inlay and excellent ergonomics
- Excellent grip safety, including ultra-small handle design in the Little version
- Robust switching and control functions in the handle
- Ball joint for optimum range of movement and ideal handling
- Lightweight, flexible leather cable assemblies made from high flex leather (HFL)
- For all common TIG power sources
- Excellent HF safety

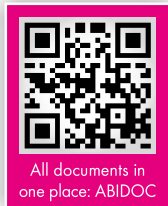


Type	Cooling	DC	AC	Duty cycle	Tungsten electrodes Ø
ABITIG® GRIP 150 / 150 F	gas cooled	150 A	105 A	35%	1.0-2.4 mm
ABITIG® GRIP 260 W	liquid cooled	240 A	185 A	100%	1.0-3.2 mm
ABITIG® GRIP 260 W SC	liquid cooled	340 A	240 A	100%	1.0-3.2 mm
ABITIG® GRIP 200	gas cooled	200 A	140 A	35%	1.6-3.2 mm
ABITIG® GRIP 450 W /WK/WKF	liquid cooled	400 A	280 A	100%	1.6-4.8 mm
ABITIG® GRIP 450 W SC	liquid cooled	450 A	320 A	100%	1.6-4.8 mm
ABITIG® GRIP 500 W	liquid cooled	500 A	350 A	100%	1.6-6.4 mm
ABITIG® GRIP Little 90	gas cooled	90 A	60 A	35%	1.0-1.6 mm
ABITIG® GRIP Little 180 W	liquid cooled	180 A	130 A	100%	1.0-3.2 mm
ABITIG® GRIP Little 150 / 150 F	gas cooled	140 A	100 A	35%	1.0-2.4 mm
ABITIG® GRIP Little 260 W	liquid cooled	240 A	170 A	100%	1.0-3.2 mm
ABITIG® 150 MT	gas cooled	150 A	110 A	60%	1.0-3.2 mm
ABITIG® 260 W MT	liquid cooled	260 A	180 A	100%	1.0-3.2 mm
ABITIG® 200 MT	gas cooled	200 A	140 A	60%	1.6-4.0 mm
ABITIG® 300 W MT	liquid cooled	300 A	210 A	100%	1.6-4.8 mm
ABITIG® 400 W MT	liquid cooled	400 A	280 A	100%	1.6-4.8 mm
ABITIG® 500 W MT	liquid cooled	500 A	350 A	100%	1.6-6.4 mm

Technical Data according to EN 60 974-7

# TIG WELDING TORCHES **ABITIG® GRIP**

## **ABITIG® GRIP 150** ■ **ABITIG® GRIP 260 W/SC**



ABITIG® GRIP 150

ABITIG® GRIP 260 W / SC

**Special wear parts  
see page 152**

The SC version  
(SC = Super Cooled)  
has a red hose coupling.




### **ABITIG® GRIP 150**

Rating: 150 A DC  
105 A AC  
Duty cycle: 35%  
Tungsten electrodes Ø: 1.0-2.4 mm

### **ABITIG® GRIP 260 W/SC**

Rating: 240 / 340 A DC  
185 / 240 A AC  
Duty cycle: 100%  
Tungsten electrodes Ø: 1.0-3.2 mm

Description		Torch body	
Type	Cooling	Version	Part-No.
ABITIG® GRIP 150	gas cooled	Standard - 60.0 mm	776.0010
ABITIG® GRIP 150 F	gas cooled	Flexible - 60.0 mm	776.0130
ABITIG® GRIP 260 W / SC	liquid cooled	Standard - 60.0 mm	777.0010

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



Back cap (10 pcs.)	Short	Medium	Long
	776.0053	771.0051	772.0051.10



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

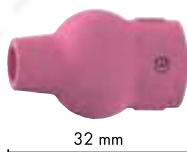
\* Optimized design for improved gas coverage



Insulator / Adaptor ring	Standard version (10 pcs.)	for gas diffuser (1 pc.)
Insulator	776.1043	776.0443
Adaptor ring	-	776.0441



Gas diffuser 4 (1 pc.)	Standard	Multilayer
Ø 1.6 mm	775.0122	775.0127.1
Ø 2.4 mm	775.0123	775.0128.1
Ø 3.2 mm	775.0124	775.0129.1



Gas nozzle, ceramic (10 pcs.)	Standard version	Ball version	Standard version		For gas diffuser
			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	-	-
Ø 12.5 mm	-	-	-	-	778.1183
Ø 16.0 mm	-	-	-	-	778.1184
Ø 19.5 mm	-	-	-	-	778.1188
Ø 24.3 mm	-	-	-	-	778.1189**

\*\*Without figure: cylindrical form, length 34.0 mm; not suitable for high frequency\*

# TIG WELDING TORCHES **ABITIG® GRIP A T/W T**

## **ABITIG® GRIP A T 150** ■ **ABITIG® GRIP W T 260 W**



All documents in one place: ABIDOC



ABITIG® GRIP A T 150

Torches with rotatable and exchangeable torch necks



ABITIG® GRIP W T 260 W

105-260 A



**Definition:**  
T = turnable/exchangeable torch neck

### **ABITIG® GRIP A T 150**

Rating: 150 A DC  
105 A AC  
Duty cycle: 35%  
Tungsten electrodes Ø: 1.0-2.4 mm

### **ABITIG® GRIP W T 260 W**

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

<b>Description</b>			
Type	Cooling	Version	Part-No.
Torch neck ABITIG® A T 150	gas cooled	Standard - 60.0 mm	708.1003.1
Torch neck ABITIG® W T 260 W	liquid cooled	Standard - 60.0 mm	709.1004.1
Service kit ABITIG® A T (O-rings, grease etc.)	-	ABITIG® A T	708.0068.1
Service kit ABITIG® WT (O-rings, grease etc.)	-	ABITIG® W T	708.0033.1

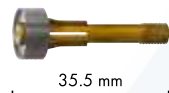
Technical data according to EN 60 974-7

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.

## Wear parts



Back cap (10 pcs.)	Short	Medium	Long
	776.0053	771.0051	772.0051.10

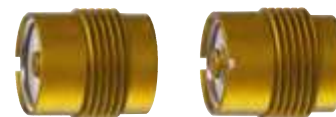


Electrode holder/ Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser multilayer*	Gas diffuser
Ø 1.0 mm	776.0061	776.0171	777.0171.5	776.0171
Ø 1.6 mm	776.0062	776.0172	777.0172.5	776.0172
Ø 2.0 mm	776.0067	776.0177	777.0177.5	776.0177
Ø 2.4 mm	776.0063	776.0173	777.0173.5	776.0173
Ø 3.2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

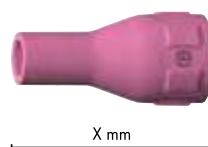
\* Optimized design for improved gas coverage



Insulator/Adaptor ring	Standard version (10 pcs.)	for gas diffuser (1 pc.)
Insulator	776.1043	776.0443
Adaptor ring	-	776.0441



Gas diffuser 4 (1 pc.)	Standard	Multilayer
Ø 1.6 mm	775.0122	775.0127.1
Ø 2.4 mm	775.0123	775.0128.1
Ø 3.2 mm	775.0124	775.0129.1



Gas nozzle, ceramic (10 pcs.)	Standard version	Ball version	Standard version		For gas diffuser
			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	-	-
Ø 12.5 mm	-	-	-	-	778.1183
Ø 16.0 mm	-	-	-	-	778.1184
Ø 19.5 mm	-	-	-	-	778.1188
Ø 24.3 mm	-	-	-	-	778.1189**

\*\*Without figure: cylindrical form, length 34.0 mm; not suitable for high frequency\*

# TIG WELDING TORCHES **ABITIG® GRIP**

## **ABITIG® GRIP 200** ■ **ABITIG® GRIP 450 W/SC**



ABITIG® GRIP 200

ABITIG® GRIP 450 W / WK / WKF / W SC

### **ABITIG® GRIP 200**

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

### **ABITIG® GRIP 450 W / WK / WKF**

Rating: 420 A DC / 400 A DC  
300 A AC / 280 A AC  
Duty cycle: 60% / 100 %  
Tungsten electrodes Ø: 1.6-4.8 mm

### **ABITIG® GRIP 450 W SC**

Rating: 480 A DC / 450 A DC  
340 A AC / 320 A AC  
Duty cycle: 60% / 100 %  
Tungsten electrodes Ø: 1.6-4.8 mm

The SC version (SC = Super Cooled) has a red hose coupling.



Description	Torch body		
	Cooling	Version	Part-No.
ABITIG® GRIP 200	gas cooled	Standard - 80.0 mm	774.0010
ABITIG® GRIP 200 F	gas cooled	Flexible - 80.0 mm	774.0130
ABITIG® GRIP 200 K	gas cooled	Short - 60.0 mm	774.0230
ABITIG® GRIP 450 W / 450 W SC	liquid cooled	Standard - 80.0 mm	775.0010
ABITIG® GRIP 450 WK	liquid cooled	Short - 60.0 mm	775.0230
ABITIG® GRIP 450 WF	liquid cooled	Flexible - 80.0 mm	775.0238.1
ABITIG® GRIP 450 WKF	liquid cooled	Short, flexible - 60.0 mm	775.0233.1

The torch bodies (standard and short) for ABITIG® 450 W SC are identical with those for ABITIG® 450 W. The complete torches differ only in terms of the layout of the cable assembly.  
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



Back cap (10 pcs.)	Short (10 pcs.)	Medium (1 pc.)	Long (10 pcs.)
	773.0053	773.0055.1	773.0051



57 mm



48 mm



51 mm



48 mm

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



Insulator	Standard version (10 pcs.)	For gas diffuser (1 pc.)
	775.1043	775.1143



Gas diffuser 4 (1 pc.)	Standard	Multilayer
Ø 1.6 mm	775.0122	775.0127.1
Ø 2.4 mm	775.0123	775.0128.1
Ø 3.2 mm	775.0124	775.0128.1
Ø 4.0 mm	775.0125	775.0130.1
Ø 4.8 mm	775.0126	-



X mm



52 mm



50 mm

Gas nozzle, ceramic (10 pcs.)	Standard version		Standard version	For gas diffuser
	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 24.3 mm	-	-	-	778.1189**

\*Only in combination with gas diffuser 48 mm (773.0172-773.0177) \*\*Without figure: cylindrical form, length 34.0 mm; not suitable for high frequency.



# TIG WELDING TORCHES **ABITIG® GRIP A T/W T**

## **ABITIG® GRIP A T 200** ■ **ABITIG® GRIP W T 450 W**



ABITIG® GRIP A T 200

ABITIG® GRIP W T 450 W

Torches with rotatable and exchangeable torch necks



**Definition:**  
T = turnable/exchangeable torch neck

### ABITIG® GRIP A T 200

Rating: 180 A DC  
130 A AC  
Duty cycle: 35%  
Tungsten electrodes Ø: 1.6-3.2 mm

### ABITIG® GRIP W T 450 W

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

Description			
Type	Cooling	Version	Part-No.
Torch neck ABITIG® A T 200	gas cooled	Standard - 80.0 mm	708.2003.1
Torch neck ABITIG® W T 450 W	liquid cooled	Standard - 80.0 mm	709.2001.1
Service kit ABITIG® A T (O-rings, grease etc.)	-	ABITIG® A T	708.0068.1
Service kit ABITIG® W T (O-rings, grease etc.)	-	ABITIG® W T	708.0033.1

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.

## Wear parts



Back cap (10 pcs.)	Short (10 pcs.) 773.0053	Medium (1 pc.) 773.0055.1	Long (10 pcs.) 773.0051
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57 mm



48 mm



51 mm

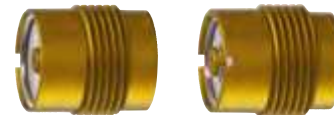


48 mm

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



Insulator	Standard version (10 pcs.) 775.1043	For gas diffuser (1 pc.) 775.1143
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Gas diffuser 4 (1 pc.)	Standard	Multilayer
Ø 1.6 mm	775.0122	775.0127.1
Ø 2.4 mm	775.0123	775.0128.1
Ø 3.2 mm	775.0124	775.0128.1
Ø 4.0 mm	775.0125	775.0130.1
Ø 4.8 mm	775.0126	-



X mm



52 mm



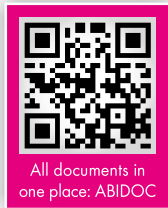
50 mm

Gas nozzle, ceramic (10 pcs.)	Standard version		Standard version	For gas diffuser
	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 24.3 mm	-	-	-	778.1189**

\*Only in combination with gas diffuser 48 mm (773.0172-773.0177) \*\*Without figure: cylindrical form, length 34.0 mm; not suitable for high frequency.

# TIG WELDING TORCH **ABITIG® GRIP**

## **ABITIG® GRIP 500 W**



ABITIG® GRIP 500 W

Special wear parts  
see page 152



### **ABITIG® GRIP 500 W**

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

<b>Description</b>		<b>Torch body</b>	
Type	Cooling	Version	Part-No.
ABITIG® GRIP 500 W	liquid cooled	Standard - 79.0 mm	775.0041.1

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.

**Wear parts**



Back cap (1 pc.)	<b>Short</b>	<b>Standard</b>
	775.0053.1	775.0051.1



Insulator (1 pc.)	775.0058.1
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58 mm



55 mm

Electrode holder / Gas diffuser (1 pc.)	Electrode holder	Gas diffuser
Ø 1.6 mm	779.6044	779.6058
Ø 2.0 mm	779.6049	779.6063
Ø 2.4 mm	779.6045	779.6059
Ø 3.2 mm	779.6046	779.6060
Ø 4.0 mm	779.6047	779.6061
Ø 4.8 mm	779.6048	779.6062
Ø 6.4 mm	779.6050	779.6064



50 mm

Gas nozzle, ceramic (10 pcs.)	Standard
Ø 12.5 mm	778.1183
Ø 16.0 mm	778.1184
Ø 19.5 mm	778.1188
Ø 24.0 mm	-



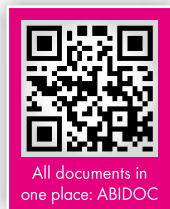
34 mm

Gas nozzle, ceramic (10 pcs.)		Short
Ø 12.5 mm	-	-
Ø 16.0 mm	-	-
Ø 19.5 mm	-	-
Ø 24.0 mm	-	778.1189*

\*Not suitable for high frequency

# TIG WELDING TORCHES **ABITIG® GRIP LITTLE**

## **ABITIG® GRIP LITTLE 90** ■ **ABITIG® GRIP LITTLE 180 W**



ABITIG® GRIP LITTLE 90

ABITIG® GRIP LITTLE 180 W



### **ABITIG® GRIP Little 90**

Rating: 90 A DC  
60 A AC  
Duty cycle: 35%  
Tungsten electrodes Ø: 1.0-1.6 mm

### **ABITIG® GRIP Little 180 W**

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

Description		Torch body	
Type	Cooling	Version	Part-No.
ABITIG® GRIP Little 90	gas cooled	Standard - 60.0 mm	770.0040.1
ABITIG® GRIP Little 180 W	liquid cooled	Standard - 60.0 mm	772.0040.1

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.

## Wear parts



Back cap (10 pcs.)	<b>Short</b>	<b>Standard</b>
	771.0053	771.0051

**C**

Spring (10 pcs.)	771.0037
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Electrode holder / Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser cylindrical
Ø 1.0 mm	771.0061	771.0111	-
Ø 1.6 mm	771.0062	771.0112	-
Ø 2.0 mm	771.0067	771.0117	-
Ø 2.4 mm	771.0063	771.0113	771.0123
Ø 3.2 mm	771.0064	771.0114	771.0124



23 mm



23 mm

Gas nozzle, ceramic (10 pcs.)	Standard	Standard
Ø 6.0 mm (Gr. 1)	771.0081	-
Ø 8.0 mm (Gr. 2)	771.0082	-
Ø 10.5 mm (Gr. 3)	771.0083	771.0083



33 mm



33 mm

Gas nozzle, ceramic (10 pcs.)	Long	Long
Ø 6.0 mm (Gr. 1)	771.2171	-
Ø 8.0 mm (Gr. 2)	771.2172	-
Ø 10.5 mm (Gr. 3)	771.2173	771.2173

# TIG WELDING TORCHES **ABITIG® GRIP LITTLE**

## **ABITIG® GRIP LITTLE 150** ■ **ABITIG® GRIP LITTLE 260 W**



ABITIG® GRIP LITTLE 150

ABITIG® GRIP LITTLE 260 W

Special wear parts  
see page 152



### **ABITIG® GRIP Little 150**

Rating: 140 A DC  
100 A AC  
Duty cycle: 35%  
Tungsten electrodes Ø: 1.0-2.4 mm

### **ABITIG® GRIP Little 260 W**

Rating: 240 A DC  
170 A AC  
Duty cycle: 100%  
Tungsten electrodes Ø: 1.0-3.2 mm

Description		Torch body	
Type	Cooling	Version	Part-No.
ABITIG® GRIP LITTLE 150	gas cooled	Standard - 46.0 mm	770.0010.1
ABITIG® GRIP LITTLE 150 F	gas cooled	Flexible - 46.0 mm	770.0130.1
ABITIG® GRIP LITTLE 260 W	liquid cooled	Standard - 46.0 mm	772.0010.1

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.

## Wear parts



Back cap (10 pcs.)	Short 776.0053	Medium 771.0051	Long 772.0051.10
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Electrode holder / Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser multilayer*	Gas diffuser
Ø 1.0 mm	776.0061	776.0171	777.0171.5	776.0171
Ø 1.6 mm	776.0062	776.0172	777.0172.5	776.0172
Ø 2.0 mm	776.0067	776.0177	777.0177.5	776.0177
Ø 2.4 mm	776.0063	776.0173	777.0173.5	776.0173
Ø 3.2 mm	776.0064	776.0174	777.0174.5	776.0174

\* Optimized design for improved gas coverage



Insulator / Adaptor ring	Standard version (10 pcs.)	for gas diffuser (1 pc.)
Insulator	776.1043	776.0443
Adapting	-	776.0441



Gas diffuser 4 (1 pc.)	Standard	Multilayer
Ø 1.6 mm	775.0122	775.0127.1
Ø 2.4 mm	775.0123	775.0128.1
Ø 3.2 mm	775.0124	775.0129.1



Gas nozzle, ceramic (10 pcs.)	Standard version	Ball version	Standard version		for gas diffuser
			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	-	-
Ø 12.5 mm	-	-	-	-	778.1183
Ø 16.0 mm	-	-	-	-	778.1184
Ø 19.5 mm	-	-	-	-	778.1188
Ø 24.3 mm	-	-	-	-	778.1189**

\*\*Without figure: cylindrical form, length 34.0 mm; not suitable for high frequency.

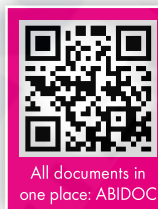


# TIG WELDING TORCHES **ABITIG® MT**

## **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



ABITIG® 260 W MT

ABITIG® 150 MT

Special wear parts and torch mounts see page 152



#### **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

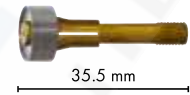
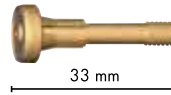
Due to the different connection variants on the machine side, it is not possible to list part numbers for complete torches. Please contact our sales department.

## Wear parts



Guide tube (1 pc.)

779.1030



Electrode holder/ Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser
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**



ABITIG® 200 MT  
ABITIG® 300 W MT

ABITIG® 450 W MT

**Torch mounts  
see page 153**



### 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.

**Wear parts**

**ABITIG® 200 MT/ABITIG® 300 W MT**

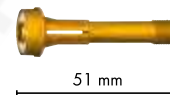
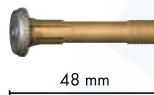
**ABITIG® 450 W MT**



<b>Guide tub (1 pc.)</b>	778.1030
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<b>Collet (1 pc.)</b>	778.1140
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Electrode holder / Gas diffuser (5 pcs.)	Electrode holder	Gas diffuser	Gas diffuser
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	-



<b>Insulator (1 pc.)</b>	775.1043	779.6033
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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	-



<b>Setting gauge (1 pc.)</b>	778.1157
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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](http://www.binzel-abicor.com).

# TIG WELDING TORCHES **ABITIG® MT**

## **ABITIG® 400 W MT** ■ **ABITIG® 500 W MT**



ABITIG® 500 W MT

ABITIG® 400 W MT

### **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



**Special wear parts and torch mounts see page 153**

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.

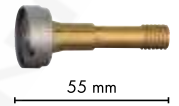
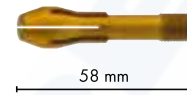
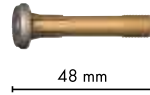
**Wear parts**

**ABITIG® 400 W MT**

**ABITIG® 500 W MT**



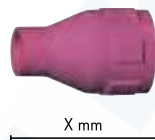
<b>Guide tube (1 pc.)</b>	779.4030	779.6026
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Electrode holder/ Gas diffuser (5 pcs.)	Electrode holder (5 pcs.)	Gas diffuser (5 pcs.)	Electrode holder (1 pc.)	Gas diffuser (1 pc.)
Ø 1.6 mm	775.0062	773.0172	779.6044	779.6058
Ø 2.0 mm	775.0067	773.0177	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



<b>Insulator (1 pc.)</b>	779.4043	779.6033
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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



ABITIG® GRIP 450 W



ABITIG® 300 W MT



ABITIG® 500 W MT

Special wear parts and torch mounts see page 153



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

## 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

<b>TIG Manual Welding Torches ABITIG® with cold wire feed</b>			
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.

<b>TIG Machine Welding Torches ABITIG® with cold wire feed</b>			
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.

## Wear parts

Cold wire feeding tip	ABITIG®	ABITIG® MT
	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	-	967.0332

<b>Cold wire feeding</b>		
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

<b>Wire guides</b>	
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 1.6; for 6.00 m	128.0017
Polyamid core liner 2.3x4.7; Wire-Ø 1.6; for 6.00 m	128.0037

## Component kits

<b>Retrofit kits</b>	
Description	Part-No.
Cold wire feeding compl. for ABITIG® 260 W (gas nozzle L = 26 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