

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled

ABITIG® GRIP – the complete solution in the field of TIG welding torches. This range represents a logical development of the ABITIG® torch range, which has distinguished itself by its consistent implementation of modular design and optimum ergonomics.

The torches in various ratings, both air and liquid cooled, are fitted with a uniform ergonomic handle with "GRIP" and optimised cable assembly management, into which numerous switch and control functions can be integrated. All consumables are compatible to the international "SR-Standard".

The flexible cable assemblies are available with modular and robust machine-side connections.

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for most available TIG welding power sources
- Consumables compatible to the international standard



### ABITIG® GRIP 9

#### Technical data (EN 60 974-7):

Type of cooling:	air cooled
Rating:	110 A DC 80 A AC
Duty cycle:	35%
Tungsten electrodes:	Ø 0.5–1.6 mm

### ABITIG® GRIP 20 / ABITIG® GRIP 20 SC

#### Technical data (EN 60 974-7):

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	240 A DC / 320 A DC 170 A AC / 220 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 0.5–3.2 mm

<sup>1</sup> Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.



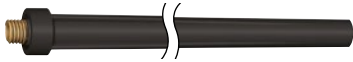
Technical data based on cable assembly lengths of up to 8.00 m.

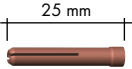
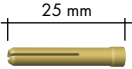
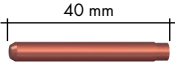
Torch complete			Torch body	
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 9	air cooled	see comment <sup>2</sup>	Standard; 46.0 mm	712.5020
ABITIG® GRIP 9 F	air cooled	see comment <sup>2</sup>	Flexible; 46.0 mm	712.5030
ABITIG® GRIP 20 / SC	liquid cooled	see comment <sup>2</sup>	Standard; 46.0 mm	712.3020
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 46.0 mm	712.3030
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 75.0 mm	712.3040.1
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 110.0 mm	712.3050.1

<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).


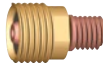

# ABITIG® GRIP 9, ABITIG® GRIP 20, ABITIG® GRIP 20 SC

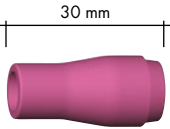
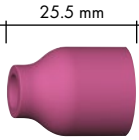
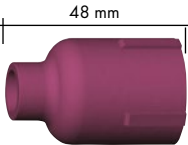
## Wear parts

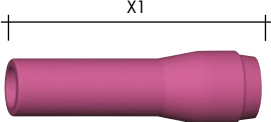

			
<b>Back cap</b> (10 pcs.)	<b>Short</b>	<b>Medium</b>	<b>Long</b>
	701.0240 / 41V33	701.0244 / 41V35	701.0247 / 41V24

			
<b>Collet</b> (10 pcs.)	<b>Standard version</b>	<b>Brass version</b>	<b>Jumbo version</b>
Ø 0.5 mm	701.0249 / 13N20	701.1060	701.1225 / 13N20L
Ø 1.0 mm	701.0250 / 13N21	701.1061	701.1226 / 13N21L
Ø 1.2 mm	701.0254 / -	-	-
Ø 1.6 mm	701.0251 / 13N22	701.1019	701.1227 / 13N22L
Ø 2.0 mm	701.0255 / -	-	-
Ø 2.4 mm	701.0252 / 13N23	701.1020	701.1228 / 13N23L
Ø 3.2 mm	701.0253 / 13N24	701.1063	701.1229 / 13N24L

		
<b>Insulating ring / Adaptor</b>	<b>Insulating ring</b> (10 pcs.)	<b>Adaptor</b> (5 pcs.)
	702.0055 / 598882	701.1234 / 54N63-20

			
<b>Collet body</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version with gas lens</b>	<b>Jumbo version with gas lens</b>
Ø 0.5-1.0 mm	701.0275 / 13N26	701.0301 / 45V42	701.1230 / 45V0204S
Ø 1.2 mm	701.0279 / -	701.0313 / -	-
Ø 1.6 mm	701.0276 / 13N27	701.0307 / 45V43	701.1231 / 45V116S
Ø 2.0 mm	701.0280 / -	701.0315 / -	-
Ø 2.4 mm	701.0277 / 13N28	701.0309 / 45V44	701.1232 / 45V64S
Ø 3.2 mm	701.0278 / 13N29	701.0311 / 45V45	701.1233 / 995795S

			
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens</b>
No. 4 Ø 6.5 mm	701.0281 / 13N08	701.0317 / 53N58	-
No. 5 Ø 8.0 mm	701.0282 / 13N09	701.0318 / 53N59	-
No. 6 Ø 9.5 mm	701.0283 / 13N10	701.0319 / 53N60	701.1199 / 57N75
No. 7 Ø 11.0 mm	701.0284 / 13N11	701.0320 / 53N61	-
No. 8 Ø 12.5 mm	701.0285 / 13N12	701.0322 / 53N61S	701.1200 / 57N74
No. 10 Ø 16.0 mm	701.0286 / 13N13	-	701.1201 / 53N88
No. 12	-	-	701.1121 / 53N87

		
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Jumbo version for gas lens<sup>1</sup></b>
No. 4 Ø 6.5 mm 48 mm	701.0289 / 796F71	701.1202 / 53N89
No. 5 Ø 8.0 mm 48 mm	701.0290 / 796F72	
No. 6 Ø 9.5 mm 48 mm	701.0291 / 796F73	
No. 4 Ø 6.5 mm 63 mm	701.0293 / 796F75	
No. 5 Ø 8.0 mm 63 mm	701.0294 / 796F76	
No. 4 Ø 6.5 mm 89 mm	701.0296 / 796F79	

<sup>1</sup> not suitable for high frequency