TECHNOLOGY FOR THE WELDER'S WORLD.



PLASMA



Product Catalogue 2.3 / V1

ABICOR BINZEL®

www.binzel-abicor.com



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Plasma Cutting Torches “ABIPLAS® CUT” air cooled

Rating up to 70 A

Torches in the ABIPLAS® CUT series can be used for plasma cutting with compressed air as the plasma and cooling gas in all common cutting positions.

Thanks to a large selection of plasma nozzles, electrodes and accessory parts, ABICOR BINZEL plasma cutting torches are suitable for individual continual use even under the toughest of conditions. Special torches are available for automated applications.

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks



ABIPLAS® CUT 70

ABIPLAS® CUT 70 MT

ABIPLAS® CUT 70
ABIPLAS® CUT 70 MT
Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–22 A (max. 25 A)
Rating:	70 A (at 60 % Duty cycle) 50 A (at 100 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 155 l/min.
Working pressure:	5–5.5 bar
Air value defined with nozzle size 1.1 mm:	
– Plasma air:	approx. 22 l/min.
– Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 25 mm at 70 A depending on material to be cut and power source

Torch complete Type	Connector	Part-No. 6 m[1]
ABIPLAS® CUT 70	Single connector G1/4“	742.D004
ABIPLAS® CUT 70	Central connector[2]	742.D037
ABIPLAS® CUT 70 MT	Single connector G1/4“	742.D110
ABIPLAS® CUT 70 MT	Central connector[2]	742.D111

Torch body Type	Part-No.
ABIPLAS® CUT 70	742.D022
ABIPLAS® CUT 70	742.D022
ABIPLAS® CUT 70 MT	742.D109
ABIPLAS® CUT 70 MT	742.D109

[1] Other lengths on request.
[2] For user’s safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABIPLAS® CUT 70, ABIPLAS® CUT 70 MT

Wear parts

Insulator (2 pcs.)



	742.D012

Electrode



Standard (10 pcs.)



long (5 pcs.)

	742.D056	742.D057

Swirl ring (2 pcs.)



	742.D073

Nozzle



Standard (10 pcs.)



Standard cross groove (10 pcs.)



long (5 pcs.)



long cross groove (5 pcs.)

Ø 0.9 mm / 30 A	742.D008	742.D027	742.D014	742.D029
Ø 1.1 mm / 30–50 A	–	–	742.D038	–
Ø 1.1 mm / 30–60 A	742.D018	742.D028	–	–
Ø 1.2 mm / 50–70 A	742.D041	–	–	–

Shield cap (1 pc.)



	742.D078

Spatter guard (1 pc.)



	742.D113

Distance holder[1] (2 pcs.)



Distance spring

	742.D010	–	–	–

Distance holder[1] (1 pc.)



Bevel cutting nozzle

	742.D114	–	–	–

Distance holder[1] (1 pc.)



Castellated nozzle long

	–	–	742.D060	–

Distance holder[1] (2 pcs.)



Perforation cap

	742.D063	–	–	–

[1] Only for manual torches.

Plasma Cutting Torches “ABIPLAS® CUT” air cooled

Rating up to 110 A

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks



ABIPLAS® CUT 110

ABIPLAS® CUT 110 MT

ABIPLAS® CUT 110
ABIPLAS® CUT 110 MT
Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–25 A (max. 27 A)
Rating:	110 A (at 60 % Duty cycle) 90 A (at 100 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 180 l/min.
Working pressure:	5–5.5 bar
Air value defined with nozzle size 1.4 mm:	
– Plasma air:	approx. 30 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 40 mm at 110 A depending on material to be cut and power source

Torch complete		Part-No.
Type	**Connector**	**6 m[1]**
ABIPLAS® CUT 110	Single connector G1/4“	745.D001
ABIPLAS® CUT 110	Central connector[2]	745.D048
ABIPLAS® CUT 110 MT	Single connector G1/4“	745.D035
ABIPLAS® CUT 110 MT	Central connector[2]	745.D059

Torch body	
Type	**Part-No.**
ABIPLAS® CUT 110	745.D025
ABIPLAS® CUT 110	745.D025
ABIPLAS® CUT 110 MT	745.D051
ABIPLAS® CUT 110 MT	745.D051

[1] Other lengths on request.

[2] For user’s safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABIPLAS® CUT 110, ABIPLAS® CUT 110 MT

Wear parts

Insulator (1 pc.)



	745.D020

Electrode (5 pcs.)





	Standard	**long**
	745.D008	745.D016

Swirl ring (2 pcs.)



	745.D113

Nozzle (5 pcs.)









	Standard	**Gouging nozzle**	**long**	**long cross groove**
Ø 1.0 mm / 30–50 A	745.D018	–	–	–
Ø 1.2 mm / 40–70 A	745.D010	–	–	–
Ø 1.2 mm / 50 A	–	–	745.D066	745.D068
Ø 1.4 mm / 70–90 A	745.D017	–	–	–
Ø 1.6 mm / 90–110 A	745.D065	–	–	–
Gouging nozzle	–	745.D067	–	–

Shield cap (1 pc.)



	745.D204

Spatter guard (1 pc.)



	757.D092

Distance holder[1] (2 pcs.)



Distance spring

	745.D012	–	–	–

Distance holder[1] (1 pc.)



Bevel cutting nozzle

	757.D090	–	–	–

Distance holder[1] (1 pc.)



Perforation cap

	757.D098	–	–	–

[1] Only for manual torches.

Plasma Cutting Torches “ABIPLAS® CUT” air cooled
Rating up to 150 A

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks



ABIPLAS® CUT 150

ABIPLAS® CUT 150 MT

ABIPLAS® CUT 150
ABIPLAS® CUT 150 MT
Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–27 A (max. 29 A)
Rating:	150 A (at 60 % Duty cycle) 120 A (at 100 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 235 l/min.
Working pressure:	5–5.5 bar
Air value defined with nozzle size 1.8 mm:	
– Plasma air:	approx. 39 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 55 mm at 150 A depending on material to be cut and power source

Torch complete		Part-No.
Type	**Connector**	**6 m[1]**
ABIPLAS® CUT 150	Single connector G1/4“	757.D001
ABIPLAS® CUT 150	Central connector[2]	757.D023
ABIPLAS® CUT 150 MT	Single connector G1/4“	757.D029
ABIPLAS® CUT 150 MT	Central connector[2]	757.D033

Torch body	
Type	**Part-No.**
ABIPLAS® CUT 150	757.D020
ABIPLAS® CUT 150	757.D020
ABIPLAS® CUT 150 MT	757.D028
ABIPLAS® CUT 150 MT	757.D028

[1] Other lengths on request.
[2] For user’s safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABIPLAS® CUT 150, ABIPLAS® CUT 150 MT

Wear parts

Insulator (1 pc.)



	757.D032

Electrode (5 pcs.)





	Standard	**long**
	757.D008	757.D017

Swirl ring (2 pcs.)



	757.D060

Nozzle (5 pcs.)







	Standard	**Gouging nozzle**	**long cross groove**
Ø 1.2 mm / 50 A	–	–	757.D016
Ø 1.2 mm / 70 A	757.D037	–	–
Ø 1.5 mm / 70–90 A	757.D009	–	–
Ø 1.6 mm / 90–120 A	757.D010	–	–
Ø 1.8 mm / 120–150 A	757.D011	–	–
Gouging nozzle	–	757.D015	–

Shield cap (1 pc.)



	757.D091

Spatter guard (1 pc.)



	757.D092

Distance holder[1] (2 pcs.)



Distance spring

	745.D012	–	–

Distance holder[1] (1 pc.)



Bevel cutting nozzle

	757.D090	–	–

Distance holder[1] (1 pc.)



Perforation cap

	757.D098	–	–

[1] Only for manual torches.

Plasma Cutting Torches “ABIPLAS® CUT”

Liquid cooled · Rating up to 200 A

A striking design featuring innovative technology – ABIPLAS® CUT 200 W the liquid cooled plasma cutting torch from ABICOR BINZEL (in manual or robotic compatible version).

Directly cooled, long-life electrodes, extended life nozzles and straightforward construction with only a few easily replaceable wear-parts. These are just some of the “cutting edge” highlights of this product.

Highly efficient, superb cutting performance and flexibility for best results in daily use.



ABIPLAS® CUT 200 W



ABIPLAS® CUT 200 W MT

ABIPLAS® CUT 200 W
ABIPLAS® CUT 200 W MT
Wear parts standard / special
Technical data (EN 60 974-7):

Type of cooling:	liquid cooled
Pilot current:	15–27 A (max. 29 A)
Rating:	200 A / 160 A (at 100 % Duty cycle)
Type of gas:	Compressed air
Working pressure:	3.5–4.5 bar / 3.5 bar
Air value defined with nozzle size 1.8 mm:	
– Plasma air:	approx. 39 l/min. / approx. 21 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 20 s
Type of ignition:	HF
Gas supply:	Compressed air for plasma gas
Ignition voltage:	7 kV
Cutting thickness:	max. 70 mm at 200 A / max. 60 mm at 160 A depending on material to be cut and power source

Torch complete (Wear parts standard)		Part-No.	
Type	**Connector**	**6 m**	**12 m**
ABIPLAS® CUT 200 W	Single connector	758.0050	758.0062
ABIPLAS® CUT 200 W MT	Single connector	758.1012	758.1019
ABIPLAS® CUT 200 W	Central connector[1]	758.0054	758.0063
ABIPLAS® CUT 200 W MT	Central connector[1]	758.1015	758.1020

Torch body	
Type	**Part-No.**
ABIPLAS® CUT 200 W	758.0060
ABIPLAS® CUT 200 W MT	758.1016
ABIPLAS® CUT 200 W	758.0060
ABIPLAS® CUT 200 W MT	758.1016

Torch complete (Wear parts special)		Part-No.	
Type	**Connector**	**6 m**	**12 m**
ABIPLAS® CUT 200 W	Single connector	758.0052	758.0064
ABIPLAS® CUT 200 W MT	Single connector	758.1014	758.1021
ABIPLAS® CUT 200 W	Central connector[1]	758.0061	758.0065
ABIPLAS® CUT 200 W MT	Central connector[1]	758.1018	758.1022

[1] For user’s safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABIPLAS® CUT 200 W, ABIPLAS® CUT 200 W MT

Wear parts



Insulator (1 pc.)

	757.D032




Electrode (10 pcs.)	**Standard**	**Special**[1]
	758.0030	758.0031




Swirl ring (2 pcs.)	**Standard**	**Special**[1]
	757.D060	758.0028





Nozzle	**Standard** (10 pcs.)	**Gouging nozzle**[2] (1 pc.)	**Special**[1] (10 pcs.)
Ø 1.0 mm / 40 A	758.0085	–	–
Ø 1.2 mm / 40–70 A	758.0035	–	758.0040
Ø 1.4 mm / 70–90 A	758.0036	–	758.0041
Ø 1.6 mm / 90–120 A	758.0037	–	758.0042
Ø 1.8 mm / 120–160 A	758.0038	–	758.0043
Ø 2.0 mm / 160–200 A	758.0039	–	758.0044
Gouging nozzle	–	758.0073	–



Shield cap (1 pc.)

	758.0020



Spatter guard (10 pcs.)

	758.0026





Distance holder (1 pc.)	**Perforation cap**	**Bevel cutting nozzle**[3]	**Castellated nozzle**
	758.0070	758.0027	758.0069

[1] The "special" version is for plasma systems without a soft start, as well as for systems where the torch has ignition problems with the "standard version".
[2] Max. 150 A, it is used instead of the nozzle standard without distance holder.
[3] The bevel cutting nozzle is used for the MT-version only as adjustment aid.

Plasma Cutting Torches "ABICUT" air cooled

Rating up to 40 A

Air cooled Plasma Cutting Torches ABICUT are particulary suitable for plasma cutting applications in the range of 20 to 75 Amps in all cutting positions. Robust in construction, innovative in design.

- Ergonomic designed, short handle – optimal handling
- Inovative trigger guard – for safe operating
- Positive trigger action – comfortable functioning
- Robust construction and optimal cooling – long lifetime of torch and wear parts
- Contact ignition reduces costs for thermal cutting
- Compatible with all popular plasma cutting power sources



ABICUT 25K

ABICUT 45

ABICUT 25K

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	10–15 A (max. 18 A)
Rating:	20 A (at 35 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 29 l/min.
Working pressure:	2 bar
Air value defined with nozzle size 0.65 mm:	
– Plasma air:	approx. 8.5 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact
Gas supply:	Compressed air both for plasma and cooling gas
Cutting thickness:	6 mm at 20 A depending on material to be cut and power source

ABICUT 45

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	10–15 A (max. 18 A)
Rating:	40 A (at 60 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 119 l/min.
Working pressure:	5 bar
Air value defined with nozzle size 0.8 mm:	
– Plasma air:	approx. 15.5 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact
Gas supply:	Compressed air both for plasma and cooling gas
Cutting thickness:	10 mm at 40 A depending on material to be cut and power source

Torch complete		Part-No.	
Type	**Connector**	**4 m**	**6 m**
ABICUT 25K (2-core)	Single connector	748.0054.1	–
ABICUT 25K (4-core)	Single connector	748.0047.1	–
ABICUT 45	Single connector G1/4"	–	748.0046.1
ABICUT 45	Central connector[1]	–	748.0056.1

Torch body	
Type	**Part-No.**
ABICUT 25K / 45	748.0020.1
ABICUT 25K / 45	748.0020.1
ABICUT 25K / 45	748.0020.1
ABICUT 25K / 45	748.0020.1

[1] For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABICUT 25K, ABICUT 45

Wear parts	ABICUT 25K		ABICUT 45	
				
Electrode (10 pcs.)	**Standard**	**long**	**Standard**	**long**
	748.0032.10	748.0048.10	748.0032.10	748.0048.10
Swirl ring (2 pcs.)				
	748.0033.2		748.0033.2	
				
Nozzle (10 pcs.)	**Standard**	**long with cross groove**	**Standard**	**long with cross groove**
Ø 0.65 mm / 20–25 A	748.0034.10	–	748.0034.10	–
Ø 0.80 mm / 20–40 A	748.0035.10	–	748.0035.10	–
Ø 0.90 mm / 20–40 A	–	748.0049.10	–	748.0049.10
Ø 1.00 mm / 30–40 A	748.0061.10	–	748.0061.10	–
Shield cap (2 pcs.)				
25 A (2-hole)	748.0042.2		–	
30 A (3-hole)	748.0063.2		–	
35 A (4-hole)	748.0052.2		–	
45 A (6-hole)	–		748.0043.2	
Distance spring (5 pcs.)				
	748.0050.5	–	748.0050.5	–
Multiple spanner (1 pc.)				
	748.0059.1			

Plasma Cutting Torches “ABICUT” air cooled

Rating up to 75 A

- Ergonomic designed, short handle – optimal handling
- Inovative trigger guard – for safe operating
- Positive trigger action – comfortable functioning
- Robust construction and optimal cooling – long lifetime of torch and wear parts
- Contact ignition reduces costs for thermal cutting
- Compatible with all popular plasma cutting power sources
- Shock resistant shield cap from special material
- Two stage distance shield for best cutting results in high and low amp area
- Optional with coaxial cable
- Optional in HF version



ABICUT 75

ABICUT 75 Coaxial cable

ABICUT 75
ABICUT 75 HF
ABICUT 75 Coaxial cable
ABICUT 75 HF Coaxial cable

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–22 A (max. 25 A)
Rating:	75 A (at 60 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 135 l/min.
Working pressure:	5–5.5 bar
Air value defined with nozzle size 1.2 mm:	
– Plasma air:	approx. 25 l/min.
– Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact / HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV (HF)
Cutting thickness:	20 mm at 75 A depending on material to be cut and power source

Torch complete Type	Connector[1]	Part-No. 6 m
ABICUT 75	Single connector G1/4“	748.0124.1
ABICUT 75	Central connector[2]	748.0130.1
ABICUT 75 HF	Single connector G1/4“	748.0125.1
ABICUT 75 HF	Central connector[2]	748.0131.1
ABICUT 75 Coaxial cable	Central connector[2]	748.0132.1
ABICUT 75 HF Coaxial cable	Central connector[2]	748.0133.1

Torch body Type	Part-No.
ABICUT 75	748.0100.1
ABICUT 75	748.0100.1
ABICUT 75 HF	748.0100.1
ABICUT 75 HF	748.0100.1
ABICUT 75 Coaxial cable	748.0100.1
ABICUT 75 HF Coaxial cable	748.0100.1

[1] Other machine side connections on request.
[2] For user’s safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.
In case of order, please indicate the machine type and the plug encoding.

ABICUT 75

Wear parts	Standard	HF version	
			
Cooling tube (2 pcs.)	**Standard**	**Standard**	**long**
	748.0116.2	748.0116.2	748.0129.2
			
Electrode (10 pcs.)	**Standard**	**Standard**	**long**
	748.0118.10	748.0118.10	748.0128.10
			
Swirl ring (2 pcs.)			
	748.0108.2	748.0117.2	
			
Nozzle (10 pcs.)	**Standard**	**Standard**	**long**
Ø 1.0 mm / up to 55 A	748.0119.10	748.0119.10	–
Ø 1.2 mm / up to 75 A	748.0120.10	748.0120.10	–
Ø 1.0 mm / up to 50 A	–	–	748.0121.10
Ø 1.2 mm / up to 70 A	–	–	748.0122.10
			
Pressure spring (5 pcs.)			
	748.0107.5	–	
			
Shield cap (2 pcs.)			
	748.0112.2		
			
Distance spring (5 pcs.)			
	748.0115.5	–	
			
Distance shield (2 pcs.)			
	748.0127.2	–	
			
Multiple spanner (1 pc.)			
	748.0059.1		

Plasma Cutting Torches “PSB” air cooled

Rating up to 30 A

Plasma cutting torch PSB 31 – the sturdy and reliable classical tool for manual cutting applications with safety switch.

Depending on the equipment parts fitted and the respective cable assembly, the PSB 31 can be used with:

- single flow systems, designed for ignition by contact (KZS)
- single flow systems, designed for short-circuit ignition (KKS)
- single flow systems, designed for non-contact ignition (HFS)





PSB 31 KZS
PSB 31 HFS
PSB 31 KKS

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	10–15 A (max. 18 A)
Rating:	30 A (at 60% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 130 l/min.
Working pressure:	3.5–4.5 bar
Air value defined with nozzle size 1.0 mm:	
– Plasma air:	approx. 12.5 l/min.
Gas post flow:	≥ 15 s
Type of ignition:	Contact / HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV (HF)
Cutting thickness:	max. 10 mm at 30 A depending on material to be cut and power source

Torch complete		Part-No.	
Type	**Connector**	**4 m**	**6 m**
PSB 31 KZS	Single gas / Ignition by contact	742.0046	742.0087
PSB 31 HFS	Single gas / Non-contact ignition	742.0109	742.0134
PSB 31 KKS	Single gas / Short-circuit ignition	742.0135	742.0136

Torch body	
Type	**Part-No.**
PSB 31 S	742.0104
PSB 31 S	742.0104
PSB 31 S	742.0104

Note! Security advice: When changing consumables or other jobs at the torch, always switch off the power source.

PSB 31 KZS / PSB 31 KKS / PSB 31 HFS

Wear parts	KZS version	KKS version	HFS version	
Electrode (10 pcs.)				
15.0 mm	742.0015	742.0015	742.0015	–
15.5 mm Standard	742.0016	742.0016	742.0016	–
17.5 mm	–	–	–	744.0064
Spring (10 pcs.)				
	744.0024	–	–	
Spring sleeve / Insulating sleeve (10 pcs.)	 Spring sleeve	 Insulating sleeve	 Insulating sleeve	
	742.0025	742.0082	742.0038	
Nozzle (10 pcs.)				
∅ 1.0 mm / 30–40 A	742.0011	742.0083	742.0011	742.0030
∅ 1.2 mm / 40–50 A	742.0026	742.0105	742.0026	–
Spring (10 pcs.)				
	–	742.0084	–	
Shield cap (1 pc.)				
	742.0004	742.0086	742.0004	
Distance spring (10 pcs.)				
	–	742.0089		
Safety clamp (1 pc.)				
	742.0099			

Plasma Cutting Torches “PSB” air cooled

Rating up to 100 A

PSB 60 single flow and PSB 121 dual flow – sturdy and reliable, proven for years and still relevant

- for manual cutting applications, with safety cut off
- for tools with high-voltage arc-start



AUT PSB 121 L



PSB 60 S

PSB 121 S

PSB 60 S

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–22 A (max. 25 A)
Rating:	60 A (at 35 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 150 l/min.
Working pressure:	5–6 bar
Air value defined with nozzle size 1.3 mm:	
– Plasma air:	approx. 18.5 l/min.
– Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness[1]:	max. 20 mm at 60 A

PSB 121 S / AUT PSB 121 L

Technical data (EN 60 974-7):

Type of cooling:	air cooled
Pilot current:	15–22 A (max. 25 A)
Rating:	100 A (at 35 % Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 150 l/min.
Working pressure:	3.5–4.5 bar (Plasma gas) 5–7.0 bar (Cooling gas)
Air value defined with nozzle size 1.5 mm:	
– Plasma air:	approx. 18 l/min.
– Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Ignition voltage:	7 kV
Cutting thickness[1]:	max. 40 mm at 100 A

Torch cpl.		Part-No.	
Type	**Connector**	**4 m**	**6 m**
PSB 60 S	Single gas lead with spring and spring support	745.0051	745.0038
PSB 121 S	Single gas lead with V-type nozzle and spring support	747.0078	747.0075
AUT PSB 121 L	Dual gas lead with spring support	–	747.0010

Torch body	
Type	**Part-No.**
PSB 60 S	745.0035
PSB 121 S	747.0136
AUT PSB 121 L	747.0005

Note! Security advice: When changing consumables or other jobs at the torch, always switch off the power source.

[1] Depending on material to be cut and power source.

PSB 60 S / PSB 121 S / AUT PSB 121 L

Wear parts



Electrode (10 pcs.)

	743.0441





Nozzle (10 pcs.)

Ø 1.0 mm / 30–40 A	743.0122	743.0202
Ø 1.3 mm / 50–60 A	743.0142	743.0261
Ø 1.5 mm / 70–80 A	743.0132	743.0203
Ø 1.8 mm / 90–100 A	743.0209	743.0262
Ø 2.0 mm / over 100 A	743.0355	–





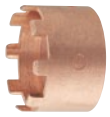


Spring support / Distance sleeve / Cutting device	**Spring support** (10 pcs.)	**Distance sleeve** (10 pcs.)	**Cutting device bevel cuts** (1 pc.)
	743.0131	743.0125	743.0114











Distance nozzle / V-type nozzle / Spring ring	**V-type distance nozzle** for spring support (1 pc.)	**Spring ring** (10 pcs.)	**Distance nozzle** (1 pc.)	(1 pc.)	**V-type distance nozzle** (1 pc.)	
	743.0267	743.0149	743.0170	743.0127	743.0168	–



Distance nozzle support (10 pcs.)

	–	743.0126	–



Safety clamp cpl. (1 pc.)

	743.0407

Plasma Welding Torches “ABIPLAS® WELD”
liquid cooled

ABIPLAS® WELD the plasma welding torch generation, economical and efficient, from ABICOR BINZEL. Thanks to their compact design ABIPLAS® WELD torches improve accessibility even on difficult component geometries. The very stable process permits spatter free welding and brazing, with high quality joint characteristics. Suitable for both manual and machine welding.



ABIPLAS® WELD 100 W MT

ABIPLAS® WELD 150 W MT



ABIPLAS® WELD 100 W

ABIPLAS® WELD 150 W

ABIPLAS® WELD 100 W
ABIPLAS® WELD 100 W MT
Technical data (EN 60 974-7):

Type of cooling:	liquid cooled
Welding current:	3–100 A
Duty cycle:	100 %
Welding speed:	Vs up to 1.5 m/min.
Nozzle diameter:	0.8–3.6 mm
Required cooling capacity:	1.1 KW

ABIPLAS® WELD 150 W
ABIPLAS® WELD 150 W MT
Technical data (EN 60 974-7):

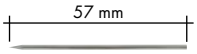
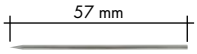
Type of cooling:	liquid cooled
Welding current:	15–150 A
Duty cycle:	100 %
Welding speed:	Vs bis 4.0 m/min.
Nozzle diameter:	1.2–3.0 mm
Required cooling capacity:	1.5 KW

Torch complete		Part-No.	
Type	**Connector[1]**	**4 m**	**8 m**
ABIPLAS® WELD 100 W	Central connector	698.0075	698.0085
ABIPLAS® WELD 100 W MT 70	Central connector	698.1010	698.1011
ABIPLAS® WELD 100 W MT	Central connector	698.1013	698.1014
ABIPLAS® WELD 150 W	Central connector	698.2023	698.2024
ABIPLAS® WELD 150 W MT 70	Central connector	698.3009	698.3010
ABIPLAS® WELD 150 W MT	Central connector	698.3011	698.3012

Torch body	
Type	**Part-No.**
ABIPLAS® WELD 100 W	698.0001
ABIPLAS® WELD 100 W MT 70	698.0134
ABIPLAS® WELD 100 W MT	698.1001
ABIPLAS® WELD 150 W	698.2001
ABIPLAS® WELD 150 W MT 70	698.2080
ABIPLAS® WELD 150 W MT	698.3001

[1] Other versions (single or central adaptor) available on request.

ABIPLAS® WELD 100 W / MT
ABIPLAS® WELD 150 W / MT

Wear parts	ABIPLAS® WELD 100 W / MT	ABIPLAS® WELD 150 W / MT
Torch cap (1 pc.)		
Ø 1.0 mm	698.0058	–
Ø 1.6 mm	698.0059	698.2033
Ø 2.4 mm	698.0016	698.2030
Ø 3.2 mm	698.0027	698.2012
Tungsten electrode (10 pcs.)		
Ø 1.0 mm	698.0064	–
Ø 1.6 mm	698.0065	698.0065
Ø 2.4 mm	698.0066	698.0066
Ø 3.2 mm	698.0067	698.0067
Centering ceramic	(10 pcs.)	(1 pc.)
Ø 1.0 mm	698.0054	–
Ø 1.6 mm	698.0055	698.2035
Ø 2.4 mm	699.0081	698.2032
Ø 3.2 mm	698.0029	698.2020
Insulating ring (10 pcs.)		
	698.0048	699.0041

Nozzle	 (10 pcs.)	 (10 pcs.)	 (10 pcs.)	 (5 pcs.)
Ø 0.8 mm	698.0060	698.0077	–	–
Ø 1.2 mm	698.0061	698.0078	698.2036	–
Ø 1.4 mm	–	–	698.2037	–
Ø 1.6 mm	–	–	698.2038	698.2057
Ø 1.7 mm	698.0062	698.0079	–	–
Ø 1.8 mm	–	–	698.2014	–
Ø 2.0 mm	–	–	698.2015	698.2058
Ø 2.3 mm	698.0019	698.0080	698.2016	–
Ø 2.6 mm	698.0063	698.0081	698.2017	698.2059
Ø 3.0 mm	698.0030	–	698.2018	–
Ø 3.6 mm	698.0053	–	698.2086	–
Ø 4.0 mm	–	–	698.2082	–
Gas diffuser (2 pcs.)				
	698.0012.2		698.2009.2	

Shielding gas nozzle (10 pcs.)					
	698.0015	698.0082	699.0071	698.2087.10	698.2060
Adjust gauge (1 pc.)					
	698.0018	698.0083	698.2019		698.2062

Cable assembly components and Cable assemblies

I. Cable assembly components Plasma Cutting Torches air cooled

Type	Power cable		Pilot cable 1 pole	Control cable per 100 m	
	4 m	6 m	per 100 m	2 pole	3 pole
ABIPLAS® CUT 70	–	116.D003	100.0074	–	100.0100
ABIPLAS® CUT 70 MT	–	116.D003	100.0074	–	100.0100
ABIPLAS® CUT 110	–	116.D003	100.0074	–	100.0100
ABIPLAS® CUT 110 MT	–	116.D003	100.0074	–	100.0100
ABIPLAS® CUT 150	–	116.D004	100.0074	–	100.0100
ABIPLAS® CUT 150 MT	–	116.D004	100.0074	–	100.0100
PSB 31 KZS/KKS	116.0470	116.0472	–	100.0099	–
PSB 31 HFS	116.0470	116.0472	100.0074	100.0099	–
PSB 60 S	116.0592	116.0299	100.0074	100.0099	–
PSB 121 S	–	116.0098	100.0074	100.0099	–
AUT PSB 121 L	–	116.0106	100.0074	–	–

II. Cable assemblies Plasma Cutting Torches air cooled

Type	Description	4 m	6 m	
			Single connector	Central connector
ABICUT 25K	4-core	748.0045.1	–	–
ABICUT 25K	2-core	748.0055.1	–	–
ABICUT 45		–	748.0044.1	748.0057.1
ABICUT 75	Standard / HF	–	748.0123.1	748.0123.1
ABICUT 75	Coaxial cable / Standard / HF	–	–	748.0134.1

III. Cable assembly components Plasma Cutting Torches liquid cooled

Type	Power cable SC		Power cable CC		Pilot cable 1 pole	Control cable 2 pole
	6 m	12 m	6 m	12 m	per 100 m	per 100 m
ABIPLAS® CUT 200 W	115.0520	115.0525	115.0522	115.0526	100.0074	100.0099
ABIPLAS® CUT 200 W MT	115.0520	115.0525	115.0522	115.0526	100.0074	100.0099

IV. Cable assembly components Plasma Welding Torches liquid cooled

Type	Power cable 1		Power cable 2		Pilot cable 1 pole	Control cable 7 pole
	4 m	8 m	4 m	8 m	per 100 m	per 100 m
ABIPLAS® WELD 100 W	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 100 W MT	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 150 W	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 150 W MT	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112

Hoses and Hose clamps

V. Gas hoses, Water hoses and Outer hoses

Type	Gas hose per 100 m	Water hose (feed) per 100 m	Water hose (return) per 100 m	Outer hose 6 m	Outer hose 40/60 m
ABIPLAS® CUT 70	–	–	–	107.D004[1]	–
ABIPLAS® CUT 70 MT	–	–	–	107.D004[1]	–
ABIPLAS® CUT 110	–	–	–	107.D004[1]	–
ABIPLAS® CUT 110 MT	–	–	–	107.D004[1]	–
ABIPLAS® CUT 150	–	–	–	107.D005[1]	–
ABIPLAS® CUT 150 MT	–	–	–	107.D005[1]	–
ABIPLAS® CUT 200 W	109.0032	109.0057	109.0056	–	107.0004[2]
ABIPLAS® CUT 200 W MT	109.0032	109.0057	109.0056	–	107.0004[2]
PSB 31 KZS/KKS	–	–	–	–	110.0018[3]
PSB 31 HFS	–	–	–	–	110.0018[3]
PSB 60 S	–	–	–	–	105.0005[2]
PSB 121 S	109.0039	–	–	–	105.0005[2]
AUT PSB 121 L	102.0124	–	–	–	105.0005[2]
ABIPLAS® WELD 100 W	109.0055	109.0011	109.0011	–	105.0005[2]
ABIPLAS® WELD 100 W MT	109.0055	109.0011	109.0011	–	105.0005[2]
ABIPLAS® WELD 150 W	109.0055	109.0011	109.0011	–	105.0005[2]
ABIPLAS® WELD 150 W MT	109.0055	109.0011	109.0011	–	105.0005[2]

[1] Only for single connection. Central connection on request.
[2] per 40 m
[3] per 60 m

VI. Leather hoses and hose coupling

Type	Description	Part-No.
ABIPLAS® WELD 100 W ABIPLAS® WELD 150 W	Leather hose 0.8 m	108.0028
ABIPLAS® WELD 100 W ABIPLAS® WELD 150 W	Hose coupling complete for connecting leather and outer hose	400.0391

VII. Hose clamps

Type	Part-No. (100 pcs.)	for hose 102.0124	109.0011	109.0032	109.0055	109.0056	109.0057
Hose clamp Ø=9.0 with ring (mark. 9.5)	173.0001	•		•		•	•
Hose clamp Ø=6.2 with ring (mark. 6.6)	173.0006				•		
Hose clamp Ø=7.5 with ring (mark. 8.0)	173.0007		•				
Hose clamp Ø=5.7 with ring (mark. 6.1)	173.0008				•		

Handles, Handle tubes, Torch carriage and Condensate filter

VIII. Handles, Control modules, Trigger, Switch guard and ball and socket joint / Sleeve

Type	Handle	Control module Up/Down	Trigger	Switch guard	Ball and socket joint / Sleeve
ABIPLAS® CUT 70	745.D046	–	185.D065	400.D252	–
ABIPLAS® CUT 110	745.D046	–	185.D065	400.D252	–
ABIPLAS® CUT 150	757.D003	–	185.D065	400.D252	–
ABIPLAS® CUT 200 W	758.D001	–	185.D039	–	–
PSB 31 KZS / KKS	742.0044	–	185.0010	–	002.0064
PSB 31 HFS	742.0044	–	185.0010	–	742.0185
PSB 60 S	743.0038	–	–	–	–
PSB 121 S	743.0038	–	–	–	–
ABIPLAS® WELD 100 W	180.0146.1	400.1279.1	–	–	400.0991
ABIPLAS® WELD 150 W	180.0146.1	400.1279.1	–	–	400.0991
ABICUT 25K	748.0053.1	–	185.0005	–	–
ABICUT 45	748.0053.1	–	185.0005	–	–
ABICUT 75	748.0053.1	–	185.0005	–	–

IX. Handle tubes, Adaptors, Coupling nut, Cable support spring and Mounting

Type	Handle tube	Adaptor for handle tube	Cable support spring	Mounting cpl.
ABIPLAS® CUT 70 MT	757.D087	500.D049	–	757.D089
ABIPLAS® CUT 110 MT	757.D087	500.D049	–	757.D089
ABIPLAS® CUT 150 MT	757.D087	400.0137	–	757.D089
ABIPLAS® CUT 200 W MT	758.1008	–	–	780.0260
AUT PSB 121 L	743.0211	–	–	–
ABIPLAS® WELD 100 W MT	698.1017	–	775.1341	780.0222
ABIPLAS® WELD 150 W MT	698.1017	–	775.1341	780.0222
ABIPLAS® WELD 100 W MT 70	698.1017	–	775.1341	780.0222
ABIPLAS® WELD 150 W MT 70	698.1017	–	775.1341	780.0222

X. Torch carriage

Type	Torch carriage	Torch carriage	Extension cpl.		Extension arm holder	
			250 mm	440 mm	Centre pin	Thread
PSB 31	–	742.0187	–	743.0346	743.0342	743.0343
PSB 60 S / PSB 121 S with spring support	–	742.0027	–	743.0346	743.0342	743.0343
ABICUT 25K / 45	742.D121.1	742.D043[1]	742.D052	–	743.0342	–
ABIPLAS® CUT 70	742.D051	742.D043	742.D052	–	743.0342	–
ABIPLAS® CUT 110	745.D079	745.D070	742.D052	–	743.0342	–
ABIPLAS® CUT 150	745.D079	745.D070	742.D052	–	743.0342	–
ABIPLAS® CUT 200 W	758.0055	758.0056	742.D052	–	743.0342	–

[1] For ABICUT 25K / 45 the torch carriage 742.D043 requires an adaptor ring 742.D122.1.

XI. Condensate filter

Type	Part-No.
Condensate filter	743.0294
Condensate filter for replacement	743.0384

Notes

Notes

Notes

M&W

Our product range:

- **MIG/MAG**
  - Welding torches
  - Machine and special torches
  - Push-Pull welding torches
  - Fume extraction torches
  - Central adaptor system
- **TIG**
  - Welding torches
  - Machine and special torches
- **PLASMA**
  - Cutting torches
  - Welding torches
  - Machine and special torches
- **ROBOTIC SYSTEMS**
  - Robot torches MIG/TIG/Plasma
  - Electronic welding regulator
  - Laser heads
  - Seam tracking sensors
  - Robot mounts
  - Wire cutting station DAV
  - Torch cleaning station
  - Wire feeding systems
- **Welding accessories**
  - Fume extraction systems
  - Coolers
  - Welding cable plug and socket
  - Anti-spatter spray and paste
  - and so on ...



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