

PLASMA



Product Catalogue 1.0/V1





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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)
- Large range of consumables, equipment and accessories

ABIPLAS® CUT 70



ABIPLAS® CUT MT 70

ABIPLAS® CUT 70 ABIPLAS® CUT MT 70

Technical data (EN 60 974-7):

| | |
|--------------------|---|
| Type of cooling: | air-cooled |
| Rating: | 70 A (at 60% Duty cycle) 50 A (at 100% Duty cycle) |
| Gas supply: | Compressed air both for plasma and cooling gas <ul style="list-style-type: none"> - Gas pressure 4.8-7.0 bar - Working pressure 5.5 bar - Required volume 155 l/min. at 5.5 bar - Gas post flow approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 25 mm at 70 A max. 15 mm at 50 A depending on material to be cut and power source |

| Torch complete | | Part-No. |
|--------------------|------------------------|----------|
| Type | Connector | 6 m* |
| ABIPLAS® CUT 70 | Single connector G1/4" | 742.D004 |
| ABIPLAS® CUT 70 | Central connector** | 742.D037 |
| ABIPLAS® CUT MT 70 | Single connector G1/4" | 742.D110 |
| ABIPLAS® CUT MT 70 | Central connector** | 742.D111 |















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

*Other lengths on request.

**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 MT 70

Wear parts

| | | | | |
|---------------------------------|--|---|---|---|
| Insulator |  | | | |
| | 742.D012 | | | |
| Electrode (10 pcs.) | Standard | | long | |
| |  | |  | |
| | 742.D056 | | 742.D057 | |
| Swirl ring (2 pcs.) |  | | | |
| | 742.D073 | | | |
| Nozzle (5 pcs.) | 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 (2 pcs.) |  | | | |
| | 742.D078 | | | |
| Spatter guard (2 pcs.) |  | | | |
| | 742.D113 | | | |
| Distance spring (2 pcs.) |  | | | |
| | 742.D010 | | | |
| Bevel cutting nozzle |  | | | |
| | 742.D114 | | | |
| Castellated nozzle long |  | | | |
| | 742.D060 | | | |
| Perforation cap |  | | | |
| | 742.D063 | | | |

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)
- Large range of consumables, equipment and accessories

ABIPLAS® CUT 110



ABIPLAS® CUT MT 110

ABIPLAS® CUT 110 ABIPLAS® CUT MT 110

Technical data (EN 60 974-7):

| | |
|--------------------|--|
| Type of cooling: | air-cooled |
| Rating: | 110 A (at 60% Duty cycle) 90 A (at 100% Duty cycle) |
| Gas supply: | Compressed air both for plasma and cooling gas <ul style="list-style-type: none"> - Gas pressure 4.8-7.0 bar - Working pressure 5.5 bar - Required volume 180 l/min. bei 5.5 bar - Gas post flow approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 40 mm at 110 A max. 35 mm at 90 A depending on material to be cut and power source |

| Torch complete Type | Connector | Part-No. 6 m* |
|---------------------|------------------------|---------------|
| ABIPLAS® CUT 110 | Single connector G1/4" | 745.D001 |
| ABIPLAS® CUT 110 | Central connector** | 745.D048 |
| ABIPLAS® CUT MT 110 | Single connector G1/4" | 745.D035 |
| ABIPLAS® CUT MT 110 | Central connector** | 745.D059 |














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

*Other lengths on request.

**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 MT 110

Wear parts

| | | | | | | | | |
|-----------------------------------|--|-----------------|---|-----------------------|---|-------------|---|--------------------------|
| Insulator |  | | | | | | | |
| | 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 (2 pcs.) |  | | | | | | | |
| | 745.D204 | | | | | | | |
| Spatter guard (2 pcs.) |  | | | | | | | |
| | 757.D092 | | | | | | | |
| Distance spring * (2 pcs.) |  | | | | | | | |
| | 745.D012 | | | | | | | |
| Bevel cutting nozzle * |  | | | | | | | |
| | 757.D090 | | | | | | | |
| Perforation cap * |  | | | | | | | |
| | 757.D098 | | | | | | | |

*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)
- Large range of consumables, equipment and accessories

ABIPLAS® CUT 150



ABIPLAS® CUT MT 150

ABIPLAS® CUT 150 ABIPLAS® CUT MT 150

Technical data (EN 60 974-7):

| | |
|--------------------|---|
| Type of cooling: | air-cooled |
| Rating: | 150 A (at 60% Duty cycle) 120 A (at 100% Duty cycle) |
| Gas supply: | Compressed air both for plasma and cooling gas <ul style="list-style-type: none"> - Gas pressure 4.8-7.0 bar - Working pressure 5.5 bar - Required volume 235 l/min. at 5.5 bar - Gas post flow approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 55 mm at 150 A max. 45 mm at 120 A depending on material to be cut and power source |

| Torch complete Type | Connector | Part-No. 6 m* |
|---------------------|------------------------|---------------|
| ABIPLAS® CUT 150 | Single connector G1/4" | 757.D001 |
| ABIPLAS® CUT 150 | Central connector** | 757.D023 |
| ABIPLAS® CUT MT 150 | Single connector G1/4" | 757.D029 |
| ABIPLAS® CUT MT 150 | Central connector** | 757.D033 |













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

*Other lengths on request.

**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 MT 150

Wear parts

| | | | |
|----------------------------------|--|-----------------------|---|
| Insulator |  | | |
| | 757.D032 | | |
| Electrode (5 pcs.) |  | Standard |  |
| | 745.D008 | | 745.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 (2 pcs.) |  | | |
| | 757.D091 | | |
| Spatter guard (2 pcs.) |  | | |
| | 757.D092 | | |
| Distance spring* (2 pcs.) |  | | |
| | 745.D012 | | |
| Bevel cutting nozzle* |  | | |
| | 757.D090 | | |
| Perforation cap* |  | | |
| | 757.D098 | | |

*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, these are the features that count in day-to-day production.



ABIPLAS® CUT MT 200 W



ABIPLAS® CUT 200 W

ABIPLAS® CUT 200 W ABIPLAS® CUT MT 200 W

Wear parts standard:

Technical data (EN 60 974-7):

| | |
|----------------------------------|-------------------------------|
| Type of cooling: | liquid-cooled |
| Rating: | 200 A (at 100% Duty cycle) |
| Pilot current: | 15-27 A (max. 29 A) |
| Type of gas: | compressed air |
| Working pressure (flow pressure) | |
| Torch entry pressure (bar): | 3.5-4.5 |
| Air value defined with: | nozzle size 1.8 mm |
| Plasma air (l/min.): | approx. 39 |
| Soft start air (l/min.): | ≥ 15 |
| Gas post flow (sec.): | > 20 |

Wear parts special:

Technical data (EN 60 974-7):

| | |
|----------------------------------|-------------------------------|
| Type of cooling: | liquid-cooled |
| Rating: | 160 A (at 100% Duty cycle) |
| Pilot current: | 15-27 A (max. 29 A) |
| Type of gas: | compressed air |
| Working pressure (flow pressure) | |
| Torch entry pressure (bar): | 3.5 |
| Air value defined with: | nozzle size 1.8 mm |
| Plasma air (l/min.): | approx. 21 |
| Soft start air (l/min.): | ≥ 15 |
| Gas post flow (sec.): | > 20 |

| 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 MT 200 W | Single connector | 758.1012 | 758.1019 |
| ABIPLAS® CUT 200 W | Central connector* | 758.0054 | 758.0063 |
| ABIPLAS® CUT MT 200 W | Central connector* | 758.1015 | 758.1020 |

| Torch body (Wear parts standard) | | Part-No. |
|----------------------------------|----------|----------|
| Type | Part-No. | |
| ABIPLAS® CUT 200 W | 758.0060 | |
| ABIPLAS® CUT MT 200 W | 758.1016 | |
| ABIPLAS® CUT 200 W | 758.0060 | |
| ABIPLAS® CUT MT 200 W | 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 MT 200 W | Single connector | 758.1014 | 758.1021 |
| ABIPLAS® CUT 200 W | Central connector* | 758.0061 | 758.0065 |
| ABIPLAS® CUT MT 200 W | Central connector* | 758.1018 | 758.1022 |

| Torch complete (Wear parts special) | | Part-No. |
|-------------------------------------|----------|----------|
| Type | Part-No. | |
| ABIPLAS® CUT 200 W | 758.0060 | |
| ABIPLAS® CUT MT 200 W | 758.1016 | |
| ABIPLAS® CUT 200 W | 758.0060 | |
| ABIPLAS® CUT MT 200 W | 758.1016 | |

*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 MT 200 W

Wear parts

| | | | |
|----------------------------|--|--|---|
| Insulator |  | | |
| | 757.D032 | | |
| Electrode (5 pcs.) |  | Standard |  |
| | 758.0030 | | 758.0031 |
| Swirl ring (2 pcs.) |  | Standard |  |
| | 757.D060 | | 758.0028 |
| Nozzle (10 pcs.) |  | Standard |  |
| 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 |  | | |
| | 758.0020 | | |
| Spatter guard |  | | |
| | 758.0026 | | |
| Distance holder |  |  |  |
| | Perforation cap 758.0070 | Bevel cutting nozzle*** 758.0027 | Castellated nozzle 758.0069 |

*Note!

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".

**Max. 150 A, it is used instead of the nozzle standard.

***The bevel cutting nozzle is used for the MT-version only as adjustment aid.

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 |
| Rating: | 30 A DC (at 60% Duty cycle) |
| Gas supply: | Plasma and cooling gas |
| Max. pressure: | 3.5–4.5 bar |
| Required flow: | 130 l/min. |
| Gas post flow: | approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 10 mm, 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



Insulating sleeve

Spring sleeve / Insulating sleeve (10 pcs.)

| | | | | |
|--|----------|----------|----------|--|
| | 742.0025 | 742.0082 | 742.0038 | |
|--|----------|----------|----------|--|



Nozzle (10 pcs.)

| | | | | |
|--------------------|----------|----------|----------|----------|
| Ø 1.0 mm / 30-40 A | 742.0011 | 742.0083 | 742.0011 | 742.0030 |
| Ø 1.2 mm / 40-50 A | 742.0026 | 742.0105 | 742.0026 | - |



Spring (10 pcs.)

| | | | | |
|--|---|----------|---|--|
| | - | 742.0084 | - | |
|--|---|----------|---|--|



Shield cap (10 pcs.)

| | | | | |
|--|----------|----------|----------|--|
| | 742.0004 | 742.0086 | 742.0004 | |
|--|----------|----------|----------|--|



Distance spring (10 pcs.)

| | | | | |
|--|---|----------|----------|--|
| | - | 742.0089 | 742.0089 | |
|--|---|----------|----------|--|



Safety clamp

| | | | | |
|--|----------|----------|----------|--|
| | 742.0099 | 742.0099 | 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.



PSB 60 S

PSB 121 S



AUT PSB 60 L

AUT PSB 121 L

PSB 60 S / AUT PSB 60 L

Technical data (EN 60 974-7):

| | |
|--------------------|--------------------------------|
| Type of cooling: | air-cooled |
| Rating: | 60 A DC (at 35% Duty cycle) |
| Gas supply: | Plasma and cooling gas |
| Max. pressure: | 5.0–6.0 bar |
| Required flow: | 150 l/min. |
| Gas post flow: | approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 15 mm |

PSB 121 S / AUT PSB 121 L

Technical data (EN 60 974-7):

| | |
|--------------------|---------------------------------|
| Type of cooling: | air-cooled |
| Rating: | 100 A DC (at 35% Duty cycle) |
| Gas supply: | Plasma gas |
| - Max. pressure: | 3.5–4.5 bar |
| - Required flow: | 15 l/min. |
| Cooling gas | |
| - Max. pressure: | 5.5–7.0 bar |
| - Required flow: | 150 l/min. |
| Gas post flow: | approx. 60 sec. |
| Ignition voltage: | 7 kV |
| Cutting thickness: | max. 40 mm |

| Torch complete | | Part-No. | |
|----------------|---|----------|----------|
| Type | Connector | 4 m | 6 m |
| PSB 60 S | Single gas lead with spring and spring support | 745.0051 | 745.0038 |
| AUT PSB 60 L | Single gas lead with spring support | - | 745.0025 |
| PSB 121 S | Dual 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 |
| AUT-PSB 60 L | 745.0021 |
| 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.

PSB 60 S / AUT-PSB 60 L / 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

Distance sleeve

Cutting device (bevel cuts)

743.0131

743.0125

743.0114



Distance nozzle / V-type nozzle / Spring ring

V-type distance nozzle

Spring ring

Distance nozzle

V-type distance nozzle

for spring support

743.0267

743.0149

743.0170

743.0127

743.0168

-

Distance nozzle support



-

743.0126

-

Safety clamp cpl.



743.0407

Plasma-Welding Torches "ABIPLAS® WELD" liquid-cooled

ABIPLAS® WELD the name of the new 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 automated welding.



ABIPLAS® WELD 100 W

ABIPLAS® WELD 150 W



ABIPLAS® WELD
100 W MT

ABIPLAS® WELD
150 W MT

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. |
| Electrode 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 up to 4.0 m/min. |
| Electrode diameter: | 1.2-3.0 mm |
| Required cooling capacity: | 1.5 KW |

| Torch complete Type | Connector* | Part-No. | |
|---------------------------|-------------------|----------|----------|
| | | 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 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 |

*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

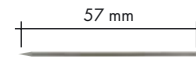
ABIPLAS® WELD 150 W / MT

Torch cap



| | | |
|----------|----------|----------|
| 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



| | | |
|----------|----------|----------|
| 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



| | | |
|----------|----------|----------|
| 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



| | | |
|--|----------|----------|
| | 698.0048 | 699.0041 |
|--|----------|----------|

Nozzle



| | | | | |
|----------|----------|----------|----------|----------|
| 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 | - | - | - |

Gas diffuser



| | | |
|--|----------|----------|
| | 698.0012 | 698.2009 |
|--|----------|----------|

Shielding gas nozzle



| | | | | |
|--|----------|----------|----------|----------|
| | 698.0015 | 698.0082 | 699.0071 | 698.2060 |
|--|----------|----------|----------|----------|

Adjust gauge



| | | | | |
|--|----------|----------|----------|----------|
| | 698.0018 | 698.0083 | 698.2019 | 698.2062 |
|--|----------|----------|----------|----------|

Bikox, Hoses, Power-, Control- and Pilot cables

I. Cable assembly PLASMA-Cutting Torches air-cooled

| Type | Power cable | | Bikox | | Pilot cable 1 pole per m | Control cable per m | |
|---------------------|-------------|----------|----------|----------|-----------------------------|---------------------|----------|
| | 4 m | 6 m | 4 m | 6 m | | 2 pole | 3 pole |
| ABIPLAS® CUT 70 | - | 116.D003 | - | - | 100.0074 | - | 100.0100 |
| ABIPLAS® CUT MT 70 | - | 116.D003 | - | - | 100.0074 | - | 100.0100 |
| ABIPLAS® CUT 110 | - | 116.D003 | - | - | 100.0074 | - | 100.0100 |
| ABIPLAS® CUT MT 110 | - | 116.D003 | - | - | 100.0074 | - | 100.0100 |
| ABIPLAS® CUT 150 | - | 116.D004 | - | - | 100.0074 | - | 100.0100 |
| ABIPLAS® CUT MT 150 | - | 116.D004 | - | - | 100.0074 | - | 100.0100 |
| PSB 31 KZS/KKS | - | - | 189.0001 | 189.0004 | - | - | - |
| PSB 31 HFS | 116.0470 | 116.0472 | - | - | 100.0074 | 100.0099 | - |
| PSB 60 S | - | - | 117.0132 | 117.0133 | 100.0074 | 100.0099 | - |
| AUT PSB 60 L | - | - | - | 117.0020 | 100.0074 | - | - |
| PSB 121 S | - | - | 117.0033 | 117.0004 | 100.0074 | 100.0099 | - |
| AUT PSB 121 L | - | - | - | 117.0010 | 100.0074 | - | - |

II. Cable assembly PLASMA-Cutting Torches liquid-cooled

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

III. Cable assembly PLASMA-Welding Torches liquid-cooled

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

Hoses and Hose clamps

IV. Gas hoses, Water hoses and Outer hoses

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

*Only for single connection. Central connection on request.

V. Leather hoses and hose coupling

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

VI. Hose clamps

| Type | Part-No. (20 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

VII. 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 | 180.0109 | 400.0940 | - | - | 400.0991 |
| ABIPLAS® WELD 150 W | 180.0109 | 400.0940 | - | - | 400.0991 |

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

| Type | Handle tube | Adaptor for handle tube | Cable support spring | Mounting cpl. |
|---------------------------|-------------|----------------------------|----------------------|------------------|
| ABIPLAS® CUT MT 70 | 757.D087 | 500.D049 | - | 757.D089 |
| ABIPLAS® CUT MT 110 | 757.D087 | 500.D049 | - | 757.D089 |
| ABIPLAS® CUT MT 150 | 757.D087 | 400.0137 | - | 757.D089 |
| ABIPLAS® CUT MT 200 W | 758.1008 | - | - | 780.0260 |
| AUT PSB 60 L | 743.0211 | - | - | - |
| AUT PSB 121 L | 743.0211 | - | - | - |
| ABIPLAS® WELD MT 100 W | 698.1017 | - | 775.1341 | 780.0222 |
| ABIPLAS® WELD MT 150 W | 698.1017 | - | 775.1341 | 780.0222 |
| ABIPLAS® WELD MT 100 W 70 | 698.1017 | - | 775.1341 | 780.0222 |
| ABIPLAS® WELD MT 150 W 70 | 698.1017 | - | 774.1341 | 780.0222 |

IX. Torch carriage

| Type | Torch carriage | Extension arm | | 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 |
| ABIPLAS® CUT 70 | 742.D043 | 742.D052 | - | 743.0342 | - |
| ABIPLAS® CUT 110 | 745.D070 | 742.D052 | - | 743.0342 | - |
| ABIPLAS® CUT 150 | 745.D070 | 742.D052 | - | 743.0342 | - |
| ABIPLAS® CUT MT 200 W | 758.0056 | 742.D052 | - | 743.0342 | - |

X. Condensate filter

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

Coolant Recirculator WK 23 / WK 43

The portable cooling device for all common applications!

- **Simple handling:**
Connection (feed and return) via quick-action couplings
- **Compact design size:**
Small space requirements

- **Sturdy design:**
Indestructible stainless steel tank and sturdy housing
- **Service-friendly:**
Clear coolant sight glass

■ "Cool" supplement:
liquid-cooled welding
with air-cooled power
sources!



WK 23



WK 43

Technical data:

| Type | WK 23 | WK 43 |
|--|--|--|
| Heat exchanger: | 2 lines | 4 lines |
| Immersion pump 50 Hz (protection class IP 54) | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 13.5 liters / min. | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 13.5 liters / min. |
| Immersion pump 60 Hz (protection class IP 54) | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 16.0 liters / min. | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 16.0 liters / min. |
| Cooling capacity (RT = 22° C) | approx. 1000 W at 1 liter / min. | approx. 1250 W at 1 liter / min. |
| Dimensions (LxBxH) | 253x270x460 mm | 253x270x516 mm |
| Weight: | 17 kg | 18 kg |
| Tank capacity: | 7 liters | 7 liters |

| Type | Line voltage | Frequency | Power rating | Current consumption | Part-No. |
|-------|--------------|-----------|--------------|---------------------|----------|
| WK 23 | 115 V | 50 Hz | 0.35 kW | 6.5 A | 850.0214 |
| WK 23 | 115 V | 60 Hz | 0.35 kW | 6.5 A | 850.0135 |
| WK 23 | 230 V | 50 Hz | 0.35 kW | 3.1 A | 850.0137 |
| WK 23 | 230 V | 60 Hz | 0.35 kW | 3.1 A | 850.0210 |
| WK 23 | 240 / 415 V | 50 Hz | 0.50 kW | 2.6 / 1.6 A | 850.0144 |
| WK 43 | 115 V | 50 Hz | 0.35 kW | 6.5 A | 850.0215 |
| WK 43 | 115 V | 60 Hz | 0.35 kW | 6.5 A | 850.0156 |
| WK 43 | 230 V | 50 Hz | 0.35 kW | 3.1 A | 850.0159 |
| WK 43 | 230 V | 60 Hz | 0.35 kW | 3.1 A | 850.0211 |
| WK 43 | 240 / 415 V | 50 Hz | 0.50 kW | 2.6 A / 1.6 A | 850.0165 |

Operating instructions:

As coolant for all liquid-cooled torch systems, we recommend the special ABICOR BINZEL coolant BTC-15, which remains liquid down to -10° C. Must be used in conjunction with an adequate motor protection device. A water flow cut-off switch (850.0033) is recommended.

Welding and Cutting Accessories

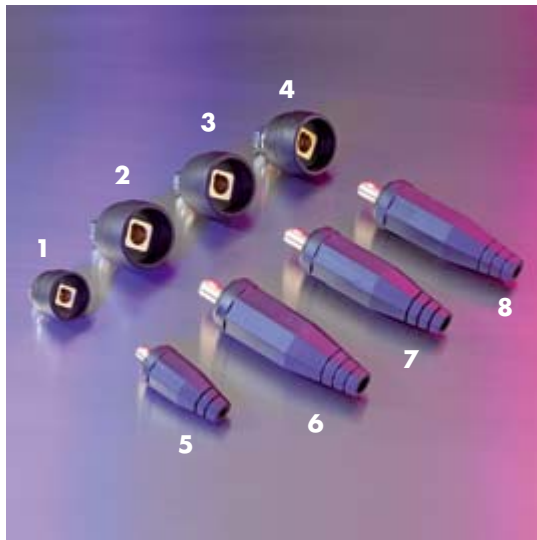
To achieve the best results ...

... one of the things which will help you to achieve the best results in the welding process is to use professional accessories. When ideally tailored to the task, they provide the basis for operational safety and long service life.

High-quality welding accessories increase the output and reliability of your torch.

To achieve perfect results, don't leave anything to chance.

Rely on original welding accessories from ABICOR BINZEL.



Panel sockets

- | | |
|-----------------------|--------------------|
| 1 ABI-IF 10-25 | Part-No.: 511.0304 |
| 2 ABI-IF 35-50 | Part-No.: 511.0314 |
| 3 ABI-IF 50-70 | Part-No.: 511.0330 |
| 4 ABI-IF 70-95 | Part-No.: 511.0309 |

Cable plugs

- | | |
|-----------------------|--------------------|
| 5 ABI-CM 10-25 | Part-No.: 511.0305 |
| 6 ABI-CM 35-50 | Part-No.: 511.0315 |
| 7 ABI-CM 50-70 | Part-No.: 511.0331 |
| 8 ABI-CM 70-95 | Part-No.: 511.0342 |

Cable sockets

- | | |
|------------------------|--------------------|
| 9 ABI-CF 10-25 | Part-No.: 511.0303 |
| 10 ABI-CF 35-50 | Part-No.: 511.0313 |
| 11 ABI-CF 50-70 | Part-No.: 511.0329 |
| 12 ABI-CF 70-95 | Part-No.: 511.0340 |

Panel plugs

- | | |
|------------------------|--------------------|
| 13 ABI-IM 10-25 | Part-No.: 511.0306 |
| 14 ABI-IM 35-50 | Part-No.: 511.0316 |
| 15 ABI-IM 50-70 | Part-No.: 511.0332 |
| 16 ABI-IM 70-95 | Part-No.: 511.0320 |

17 Spigot

for 200 litre barrel Part-No.: 192.0109

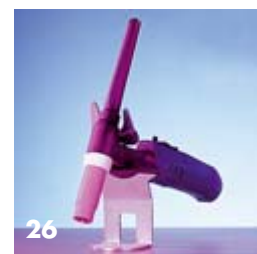
18 2 component glue

Part-No.: 191.0005

19 Special glue

for rubber and plastic Part-No.: 191.0034

Welding and Cutting Accessories



20 Special coolant BTC-15

The special coolant from BINZEL protect down to -10° C for all liquid-cooled welding and cutting facilities.

| | |
|-----------|--------------------|
| 5 litre | Part-No.: 192.0110 |
| 20 litre | Part-No.: 192.0111 |
| 200 litre | Part-No.: 192.0112 |

21 Accessories case

| | |
|-------|--------------------|
| big | Part-No.: 192.0069 |
| small | Part-No.: 192.0066 |

22 Spanner

| | |
|----------|--------------------|
| Standard | Part-No.: 191.0001 |
|----------|--------------------|

23 Multiple spanner

| |
|--------------------|
| Part-No.: 191.0015 |
|--------------------|

24 Electrode spanner

| |
|--------------------|
| Part-No.: 743.0064 |
|--------------------|

25 Universal spanner

| |
|--------------------|
| Part-No.: 750.0125 |
|--------------------|

26 TIG-Handy-Support (FIX)

| | |
|--|--------------------|
| (suitable for ABIPLAS® WELD 100 W and 150 W) | Part-No.: 193.0019 |
|--|--------------------|

Our product range:

■ MIG/MAG

- Welding Torches
- Automatic and Special Torches
- Push-Pull Welding Torches
- Fume Extraction Torches
- Central Adaptor System

■ TIG

- Welding Torches
- Automatic and Special Torches

■ PLASMA

- Cutting Torches
- Welding Torches
- Automatic and Special Torches

■ Robotic Peripheral Equipment

- Robot Torches
MIG/TIG/Plasma
- Robot Mount CAT2 /iCAT
- Torch Change System
ATS-Rotor
- Tool Change System WWS
- Wire Cutting Station DAV
- Torch Cleaning Station
BRS-LC, BRS-CC and BRS-FP
- Wire Feeding Station APD-MF

■ Welding Accessories

- Cooling Device
- Welding Cable Plug and Socket
- Anti Spatter Spray and Paste
and so on ...

ABICOR
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