schweißkraft®
Schweißtechnik

INVERTER TIG WELDING DEVICES







Power Factor Correction

- **PFC** is an electrical or electronic circuit which increases the power factor

Generator Friendly

- Suitable for use with generator, e.g., in company workshops, schools, metalworking, on building sites, or for agricultural applications

Multivoltage Einsatz weltweit

- Regulates the voltage from 110 V – 230 V

AC/DC Technology

- Welding with direct current or alternating current

DC PULSE

- **TIG DC** function = supports easy TIG welding

HF

- **HF high-frequency ignition** ignites the arc in TIG welding without touching the workpiece

Tungsten electrodes

Tungsten electrodes - for use in Tungsten Inert Gas (TIG) welding, plasma fusion cutting and similar procedures

Tungsten electrodes "WC 20" grey (thorium-free)

- Environmental compatibility: the optimum emission-free alternative to thorium-containing electrodes
- Typical applications: TIG welding, plasma welding, plasma cutting, plasma spraying
- Current type: direct current/alternating current
- Recommended base materials: corrosion-, acid- and heat-resistant steels, nickel and nickel alloys, metals with a high melting point, e.g., molybdenum, tantalum, niobium and their alloys, copper, bronze, titanium and titanium alloys, silicon bronze

Size	Art. no.	PU*
1.0 x 175 mm	1420110	10
1.6 x 175 mm	1420116	10
2.4 x 175 mm	1420124	10
3.2 x 175 mm	1420132	10
4.0 x 175 mm	1420140	10



Tungsten electrodes "W" green (pure)

- Typical applications: TIG welding
- Current type: alternating current
- Recommended base materials: Aluminium and aluminium alloys, aluminium bronze, magnesium and magnesium alloys, nickel and nickel alloys

Size	Art. no.	PU*
1.0 x 175 mm	1420210	10
1.6 x 175 mm	1420216	10
2.4 x 175 mm	1420224	10
3.2 x 175 mm	1420232	10
4.0 x 175 mm	1420240	10



Tungsten electrodes "WL 15" gold (1,5 % Lanthan LaO_2)

- Special feature: excellent ignition properties and maximum service life
- Current type: direct current/alternating current
- Recommended base materials: suitable for all base materials

Size	Art. no.	PU*
1.0 x 175 mm	1420310	10
1.6 x 175 mm	1420316	10
2.4 x 175 mm	1420324	10
3.2 x 175 mm	1420332	10
4.0 x 175 mm	1420340	10



Tungsten electrodes "WR 2" turquoise (mixed oxides, free from thorium)

- Special feature: radiation-free universal electrode with excellent ignition behaviour and great loadability values
- Current type: direct current/alternating current
- Recommended base materials: suitable for all base materials

Size	Art. no.	PU*
1.0 x 175 mm	1420410	10
1.6 x 175 mm	1420416	10
2.4 x 175 mm	1420424	10
3.2 x 175 mm	1420432	10
4.0 x 175 mm	1420440	10



Initial device training & expert training

Our recommendation for customers purchasing a Schweißkraft welding system is to call in a specialist for commissioning and initial training

Initial device training includes:

- Connecting the device supply lines installed at the workplace, such as the mains cable, gas or compressed air (depending on the device type) and the individual supply; connecting the torch and ground cables
- Assembling modular systems (e.g., power source, liquid cooling device, carriage)
- Installing the additives ***(MIG/MAG)***
- Adjusting the operating voltage and ***(MIG/MAG)*** filler wire feed speed
- Setting the shield gas flow ***(MIG/MAG/TIG)***
- Notes on maintenance and care
- Introduction to features and setting options
- **lasts for approx. 60 mins**

Expert training includes:

- ***MIG/MAG, TIG,*** manual electric or plasma cutting
- Comprehensive training for all device features including welding exercises
- Customer-specific application benefits and their implementation on a sample part that you provide directly from your production
- **Duration:** As per individual agreement

We are always happy to advise you in case of queries.
Our product advisors will support you with technical information. Our customers can use our telephone hotline and our info mail address to request qualified information and solutions.

Contact:
e-mail: beratung@schweisskraft.de
Or just call us on: **(+49 9 51) 96 555 - 501**

Type	Art. no.
Initial device training	WELDED IND.
Expert training	WELDING EXERCISES



Ask for advice and your personal quotation!

Inverter TIG welding devices DC

Inverter TIG welding devices easytig® – portable TIG DC inverter for workshops and mobile use

- All devices implemented with state-of-the-art inverter technology
- Perfectly suited for on-site work (on ladders, on scaffolding, etc.) and also generally suitable for outdoor work thanks to IP 21S degree of protection
- Precise setting of the correct welding parameters via digital display
- Universally deployable for welding with all popular electrode types
- Suitable for use with generator, e.g., in company workshops, schools, metalworking, on building sites, or for agricultural applications
- **HF high-frequency ignition i**gnites the arc in TIG welding without touching the workpiece
- The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle
- **EASY-TIG 201 DC PULSE** with adjustable welding curve





Experience our capability and request individual advice!

Contact: +49 (0951) 96 555-501
beratung@schweisskraft.de





EASY-TIG 181DC



EASY-TIG 201 DC PULSE

The controls

1. *Operation indicator (green)*
2. *Temperature indicator (yellow)*
3. *Digital display*
4. *TIG 4T/2T/ MMA-selector switch*
5. *Rotary switch for welding current pre-selection*
6. *Rotary button for down slope*
7. *Rotary button for post flow*



EASY-TIG 181DC



EASY-TIG 201 DC PULSE

8. *Electrode welding setting*
9. *MMA/LIFT/HF TIG selection switch*
10. *TIG 2T/4T mode selection switch*
11. *Digital display*
    - Hot start
    - Welding current
    - Arc power
12. *TIG parameter setting*
13. *Parameter selection and setting button*

Model		EASY-TIG 181DC	EASY-TIG 201 DC PULSE
Art. no.		1074018	1074020
Technical specifications			
Weldable electrode Ø	mm	1.6 – 4.0	1.6 – 4.0
Sheet thicknesses	mm	0.5 – 8.0	0.5 – 10.0
TIG DC setting range	A	10 – 180	5 – 200
Electrode setting range	A	10 – 180	5 – 200
Supply voltage	V	230±10 %	230±10 %
Open circuit voltage	V	MMA 75.5 TIG 92.6	MMA 90.5 TIG 60.3
Phase	Ph	1	1
Mains frequency	Hz	50/60	50/60
Duty cycle $_{at}$ Imax. 40 °C electrode	%	40	30
Current at 100 % duty cycle 40 °C TIG DC	A	100	120
Current at 100 % DC 40 °C electrode	A	100	120
Power consumption TIG	kVA	3.9	4.5
Electrode power consumption	kVA	5.9	6.9
Current type		AC	AC
Pulse frequency	Hz	–	0.5~200
Ignition		HF	HF
Torch cooling		Gas	Gas
Standard		EN 60974-1:2012 EN 60974-10:2014	EN 60974-1:2012 EN 60974-10:2014
Degree of protection		IP21S	IP21S
Power factor	cos phi	0.6	0.99
Dimensions (L x W x H)	mm	430 x 150 x 280	500 x 150 x 280
Net weight	kg	7.3	9.7



Scope of supply EASY-TIG 181DC

- 3 m welding cable 16 mm² with electrode holder 300 A
- 3 m earth cable 16 mm² with ground clamp 300 A
- Torch ECR17 4 m
- 4 m gas hose including quick connector

Scope of supply EASY-TIG 201DC PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- 3 m earth cable 16 mm² with ground clamp
- 3 m welding cable 16 mm² with electrode holder

Wear part set

Designation	Art. no.
Wear part set	1100152
Consisting of: 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size 10 / 15.7 mm, 1 x each clamping sleeve 1.6 / 3.2 / 4.0 / 2.4 mm, 1x each clamping sleeve housing 1.6 / 2.4 / 3.2 / 4.0 mm, 1x Teflon seal for tip	
Wear part set "Mini":	1100200
Consisting of 1x Teflon seal for tip, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x clamping sleeve housing 1.0 mm, 2x gas tip d=9.8 mm, 1x torch cap medium, 1x torch cap long, 1x torch cap short, 1x Teflon seal, 1x gas lens 1.6 mm, 1x Gas lens 2.4 mm, 1x gas lens 3.2 mm, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x gas tip gas lens size 6, 2x Tungsten electrode gold 1.6 mm, 2x Tungsten electrode gold 2.4 mm, 2x Tungsten electrode gold 3.2 mm	



Wear part set

Accessories

Designation	Art. no.
Transition piece/Adapter 1/4“ OT x M12x1 IT/union nut	1104001
Pressure regulator with content and operation manometer, Argon/CO_2	1700050
Control cable connector 3-pin	1174010
Ground cable 25 mm² 4m 13 mm with 400 A terminal	1250225



Torch for EASY-TIG 181DC

Designation	Art. no.
① TIG torch SR 17 / 4 m.	1104044
① TIG torch SR 17 / 8 m.	1104048

Torch for EASY-TIG 201 DC PULS

Designation	Art. no.
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018
① 4 m TIG torch SR26 gas-cooled	1104004
① 8 m TIG torch SR26 gas-cooled	1104008



Accessories for EASY-TIG 201 DC PULSE

Designation	Art. no.
② Wireless manual remote control	1174004
③ Foot pedal, 5 m	1174009
④ Wireless foot pedal remote control	1174007
Control cable connector 12-pin incl. contact pins	1104012



Inverter TIG welding devices DC PULSE

craftig® – portable TIG DC inverter for professional and mobile workshop use

- Implemented with state-of-the-art inverter technology
- Universally deployable for welding with all popular electrode types
- Perfectly suited for on-site work and also generally suitable for outdoor work thanks to IP 21S degree of protection
- Power factor correction (PFC) for worry-free use also when connected to cable drums
- TIG pulse supports welding with lower heat input
- HF high-frequency ignition ignites the arc in TIG welding without touching the workpiece
- Multiple voltage from 110 to 230 Volt
- VRD for voltage reductio when idle
- The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle
- Precise setting and display of welding parameters via LC display
- Generator capable
- Adjustable welding curve
- **CRAFT-TIG 201 DC P PULSE** equipped with **PFC** (power factor correction) for best possible use also when connected to cable drums
- Multiple voltage
- **CRAFT-TIG 253 DC PULSE** optionally with liquid cooling
- VRD operation and TIG pulse
- Water cooling connection

Experience our capability and request individual advice!

Contact: +49 (0951) 96 555-501
beratung@schweisskraft.de







Power Factor Correction | HF | PULSE DC PULSE | Generator Friendly | Multivoltage Einsatz weltweit

- **PFC** is an electrical or electronic circuit which increases the power factor

HF | PULSE DC PULSE | Generator Friendly



CRAFT-TIG 201 DC P PULSE



CRAFT-TIG 253 DC PULSE

The controls

CRAFT-TIG 201 DC P PULSE

1. *Electrode welding setting*
2. *MMA/LIFT/HF TIG selection switch*
3. *TIG 2T/4T mode selection switch*
4. *Digital display Multifunction display*
5. *TIG parameter setting*
6. *Parameter selection and setting button*



CRAFT-TIG 201 DC P PULSE



CRAFT-TIG 253 DC PULSE

CRAFT-TIG 253 DC PULSE

1. *Selection switch gas or water-cooled*
2. *Digital display multifunction display*
3. *MMA Display*
4. *TIG parameter setting*
5. *MMA/LIFT/HF TIG selection switch*
6. *TIG 2T/4T mode selection switch*
7. *Parameter selection and setting button*

Model		CRAFT-TIG 201 DC P PULSE	CRAFT-TIG 253 DC PULSE
Art. no.		1074201	1074253
€ plus VAT.			
Electrode			
Weldable electrodes	mm	1.6 – 4.0	1.6 – 5.0
Adjusting range			
TIG/Electrode setting range	A	5 – 200	5 – 250
Duty cycle			
DC at max. current 40 °C TIG/electrode	%	50 / 30	60 / 60
Current at 100 % DC 40 °C TIG/electrode	A	145 / 135	195 / 195
Power input			
TIG/Electrode power consumption	kVA	4.5 / 6.9	5 / 7.1
Electrical connection			
Required generator output	kVA	›6.9	›10.6
Open circuit voltage	V	TIG 66.5, MMA 66.7	Electrode 70.5 / TIG 60.5
Device data			
Pulse frequency	Hz	0.5 – 200	0.5 – 200
Ignition		High frequency	High frequency
Torch cooling		Gas	Gas/liquid
Electrical data			
Total power	kVA	TIG 4.5, MMA 6.9	10.6/7.7
Cos phi power factor		0.99	0.67
Current consumption TIG DC	A	19.7	13.5
Current consumption electrode DC	A	30.1	18.6
Supply voltage	V	230±10 %	400±10 %
Mains frequency	Hz	50/60	50/60
Dimensions and weights			
Dimensions (L x W x H)	mm	500 x 150 x 280	480 x 190 x 350
Net weight approx.	kg	9.7	15.1
Standard		EN 60974-1:2012, EN 60974-10:2014	



Scope of delivery CRAFT-TIG 201 DC P PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4 m Up/Down function
- Pressure regulator
- 3 m earth cable 16 mm² with ground clamp
- 3 m welding cable 16 mm² with electrode holder

Scope of delivery CRAFT-TIG 253 DC PULSE

- 3 m earth cable 25 mm² with ground clamp 300 A
- 4 m gas hose including quick connector
- Hose clamp
- **Please remember to order the correct torch!**

Wear part set

Designation	Art. no.
Wear part set	1100152
Consisting of: 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size 10 / 15.7 mm, 1 x each clamping sleeve 1.6 / 3.2 / 4.0 / 2.4 mm, 1x each clamping sleeve housing 1.6 / 2.4 / 3.2 / 4.0 mm, 1x Teflon seal for tip	
Wear part set "Mini":	1100200
Consisting of 1x Teflon seal for tip, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x clamping sleeve housing 1.0 mm, 2x gas tip d=9.8 mm, 1x torch cap medium, 1x torch cap long, 1x torch cap short, 1x Teflon seal, 1x gas lens 1.6 mm / 2.4 / 3.2 mm, 2x each clamping sleeve 1.6 / 2.4 / 3.2 mm, 2x gas tip gas lens size 6, 2x each Tungsten electrode gold 1.6 / 2.4 / 3.2 mm	



Wear part set

Accessories

Designation	Art. no.
Transition piece/Adapter 1/4“ OT x M12x1 IT/union nut	1104001
① Wireless manual remote control	1174004
③ Wireless foot pedal remote control	1174007
④ Foot pedal, 5 m	1174009
② 4 m TIG torch SR26 gas-cooled	1104004
② 8 m TIG torch SR26 gas-cooled	1104008
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018
Control cable complete with connector	1104011
Control cable connector 12-pin incl. contact pins	1104012
Pressure regulator Argon/CO_2 large Schweißkraft	1700050
Welding cable 4m 25 mm², KS50/13 mm, electrode holder 260A	1250361



Accessories for CRAFT-TIG 253 DC PULSE

Designation	Art. no.
⑤ Carriage	1174001
Cooling unit 400 V / 4 l	1174006
4 m TIG welding torch SR 18 liquid cooled	1104024
8 m TIG welding torch SR 18 liquid cooled	1104028
4 m Up/Down TIG welding torch SR 18 liquid cooled	1104034
8 m Up/Down TIG welding torch SR 18 liquid cooled	1104038
Coolant SKF 15 10 l - canister (pre-mixed)	1030110





Inverter TIG welding devices AC/DC Pulse

easytig® 201 AC/DC PULSE – portable TIG AC/DC inverters for workshops and mobile use

- All devices implemented with state-of-the-art inverter technology
- Perfectly suited for on-site work (on ladders, on scaffolding, etc.) and also generally suitable for outdoor work thanks to IP 21S degree of protection
- TIG DC function = supports easy TIG welding
- Precise setting of the correct welding parameters via digital display
- Universally deployable for welding with all popular electrode types
- Suitable for use with generator, e.g., in company workshops, schools, metalworking, on building sites, or for agricultural applications
- Adjustable welding curve
- **HF high-frequency ignition** ignites the arc in TIG welding without touching the workpiece
- The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle





Experience our capability and request individual advice!

Contact: +49 (0951) 96 555-501
beratung@schweisskraft.de





EASY-TIG 201 AC/DC PULSE SET

The controls

1. *MMA/LIFT/HF TIG selection switch*
2. *AC/DC selection switch*
3. *TIG 2T/4T mode selection switch*



4. *Parameter selection and setting button*
5. *TIG parameter setting*
6. *Mode Display / Data Display*
   - Welding current

AC/DC Technology

Model		EASY-TIG 201 AC/DC Pulse
Art. no.		1074021

Technical specifications		
Weldable electrode Ø	mm	1.6 – 4.0
Sheet thicknesses	mm	0.5 – 10
TIG DC setting range	A	10 – 170
Electrode setting range	A	10 – 170
Supply voltage	V	230±10 %
Open circuit voltage	V	AC TIG 73.4/DC TIG 69.8/AC MMA 69.3/DC MMA 69.3
Phase	Ph	1
Mains frequency	Hz	50/60
Duty cycle $_{at}$ Imax. 40 °C electrode	%	30
Current at 100 % DC 40 °C TIG	A	110
Current at 100 % DC 40 °C electrode	A	95
Power consumption TIG	kVA	4
Electrode power consumption	kVA	5.9
Current type		AC
Pulse frequency	Hz	0.5~200
Ignition		HF
Torch cooling		Gas
Standard		EN 60974-1:2012 EN 60974-10:2014
Degree of protection		IP21S
Insulation class		H
EMC level		A
Slow-blow fuse	A	16
Required generator output	kVA	›9.5
Power factor	cos phi	0.6
Dimensions (L x W x H)	mm	460 x 150 x 280
Net weight	kg	9



Scope of delivery EASY-TIG 201 AC/DC PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- 3 m earth cable 16 mm² with ground clamp

Wear part set

Designation	Art. no.
Wear part set	1100152
Consisting of: 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size 10 / 15.7 mm, 1x each clamping sleeve 1.6 / 3.2 / 4.0 / 2.4 mm, 1x each clamping sleeve housing 1.6 / 2.4 / 3.2 / 4.0 mm, 1x Teflon seal for tip	
Wear part set "Mini":	1100200
Consisting of: 1x Teflon seal for tip, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x clamping sleeve housing 1.0 mm, 2x gas tip d=9.8 mm, 1x torch cap medium, 1x torch cap long, 1x torch cap short, 1x Teflon seal, 1x each gas lens 1.6 mm / 2.4 / 3.2 mm, 2x clamping sleeve 1.6 / 2.4 / 3.2 mm, 2x gas tip gas lens size 6, 2x each Tungsten electrode gold 1.6 / 2.4 / 3.2 mm	



Wear part set

Accessories

Designation	Art. no.
Transition piece/Adapter 1/4“ OT x M12x1 IT/union nut	1104001
① Pressure regulator with content and operation manometer, Argon/CO_2	1700050
Control cable complete with connector	1104011
Control cable connector 12-pin incl. contact pins	1104012
② Foot pedal, 5 m	1174009
Welding cable 4m 25 mm², KS50/13 mm, electrode holder 260A	1250361
Ground cable 25 mm² 4m 13 mm with 400 A terminal	1250225









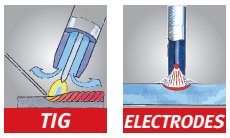
Torch

Designation	Art. no.
③ 4 m TIG torch SR26 gas-cooled	1104004
③ 8 m TIG torch SR26 gas-cooled	1104008
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018

Inverter TIG welding devices AC/DC Pulse

craftig® 201 AC/DC P PULSE – portable TIG DC inverter for professional and mobile workshop use

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- Universally deployable for welding with all popular electrode types
- TIG pulse supports welding with lower heat input
- **HF high-frequency ignition** ignites the arc in TIG welding without touching the workpiece
- The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle
- Precise setting of the correct welding parameters via digital display with job memory
- Adjustable welding curve
- Device equipped with **PFC** (power factor correction) for best possible use also when connected to cable drums
- Optionally with liquid cooling
- Multiple voltage and generator capable
- Up to 9 program memory slots



Power Factor Correction

- **PFC** is an electrical or electronic circuit which increases the power factor

AC/DC Technology

Generator Friendly

Multivoltage Einsatz weltweit

DC PULSE

HF

Scope of delivery assembly ex works
Art no. 9002805
Assembly and filling of TIG welding device with coolant **CRAFT-TIG 201 AC/DC P Pulse SET 2 (Art. no. 1074202SET2)** before delivery



CRAFT-TIG 201 AC/DC P PULSE



CRAFT-TIG 201 AC/DC P PULSE SET

The controls

1. *Parameter selection and setting button*
2. *Digital display multifunction display*
3. *Selection switch TIG HF, Lift Arc and MMA*
4. *Selection switch AC / DC*



5. *Selection switch gas or water-cooled*
6. *TIG 2T/4T mode selection switch*
7. *MMA Display*
8. *TIG parameter setting*

Model		CRAFT-TIG 201 AC/DC P PULSE	CRAFT-TIG 201 AC/DC P Pulse Set2
Art. no.		1074202	1074202SET2
Technical specifications			
Weldable electrode Ø	mm	1.6 – 4.0	
Sheet thicknesses	mm	0.5 – 10	
TIG DC setting range	A	5 – 200	
Electrode setting range	A	5 – 200	
Supply voltage	V	90~275	
Open circuit voltage	V	**230 V:** 68/68.1 AC/DC MMA **230 V:** 70.5/75.6 AC/DC TIG	
Phase	Ph	1	
Mains frequency	Hz	50/60	
Duty cycle $_{at}$ Imax. 40 °C electrode	%	35	
Current at 100 % duty cycle 40 °C TIG DC	A	155	
Current at 100 % DC 40 °C electrode	A	110	
Power consumption TIG	kVA	5	
Electrode power consumption	kVA	7.3	
Current type		AC	
Pulse frequency	Hz	0.5 ~ 999	
Ignition		HF	
Torch cooling		Gas/liquid	
Standard*		EN 60974-1:2012 EN 60974-10:2014	
Degree of protection		IP21S	
Power factor	cos phi	0.99	
Dimensions (L x W x H)	mm	580 x 190 x 350	580 x 630 x 1,120
Net weight	kg	15.5	48.5

Not intended for use in residential areas where power is supplied by a low voltage public power supply grid



Scope of delivery CRAFT-TIG 201 AC/DC P PULSE

- Gas hose 4 m incl. quick connector
- Torch TIG 26 4m
- Pressure regulator
- 3 m earth cable 16 mm² with ground clamp

Scope of delivery CRAFT-TIG 201 AC/DC P PULSE SET2

- Gas hose 4 m incl. quick connector
- Torch SR 26/4 m
- Torch SR 18/4m liquid cooled
- Pressure regulator
- VarioProtect XXL W welder's helmet
- TIG welding gloves Basic L
- 3 m earth cable 16 mm² with ground clamp
- **Liquid cooling unit with coolant**
- **Carriage**

Wear part set

Designation	Art. no.
Wear part set	1100152
Consisting of: 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size. 10 / 15.7 mm, 1x each clamping sleeve 1.6 mm / 3.2 / 4.0 / 2.4 mm, 1x each clamping sleeve housing 1.6 / 2.4 / 3.2 / 4.0 mm, 1x Teflon seal for tip	
Wear part set "Mini":	1100200
Consisting of 1x Teflon seal for tip, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x clamping sleeve housing 1.0 mm, 2x gas tip d=9.8 mm, 1x torch cap medium, 1x torch cap long, 1x torch cap short, 1x Teflon seal, 1x each gas lens 1.6 / 2.4 / 3.2 mm, 2x each clamping sleeve 1.6 / 2.4 / 3.2 mm, 2x gas tip gas lens size 6, 2xeach tungsten electrode gold 1.6 / 2.4 / 3.2 mm	



Wear part set

Accessories

Designation	Art. no.
Transition piece/Adapter 1/4“ OT x M12x1 IT/union nut	1104001
Pressure regulator Argon/CO_2 large Schweißkraft	1700050
4 m TIG torch SR26 gas-cooled	1104004
8 m TIG torch SR26 gas-cooled	1104008
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018
⑥ 4 m TIG torch SR18 liquid-cooled	1104024
⑥ 8 m TIG torch SR18 liquid-cooled	1104028
⑥ 4 m Up/Down TIG torch SR18 liquid-cooled	1104034
⑥ 8 m Up/Down TIG torch SR18 liquid-cooled	1104038
① Wireless manual remote control	1174003
② Wireless foot pedal remote control	1174007
③ Foot pedal, 5 m	1174009
Control cable complete with connector	1104011
Control cable connector 12-pin incl. contact pins	1104012
Coolant SKF 15 10 l - canister (pre-mixed)	1030110

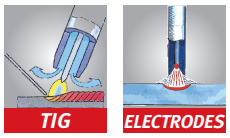
Designation	Art. no.
④ 4 l Cooling unit 230 V	1174002
⑤ Carriage	1174001



Inverter TIG welding devices AC/DC Pulse

craftig® 323 AC/DC PULSE – For professional and mobile workshop use

- Implemented with state-of-the-art inverter technology
- Perfectly suited for on-site work and also generally suitable for outdoor work thanks to IP 21S degree of protection
- Universally deployable for welding with all popular electrode types
- TIG pulse supports welding with lower heat input
- HF high-frequency ignition ignites the arc in TIG welding without touching the workpiece
- The low-noise fans capably dissipate heat from the devices thus ensuring a high duty cycle.
- Precise setting of the correct welding parameters via digital display with job memory
- Up to 9 program memory slots
- AC delta wave welding output: reduced heat input for the same current setting, especially useful for welding thin metal
- AC sine wave welding output: Traditional AC TIG welding waveform, quieter, "softer" arc characteristics
- AC square wave: Focused arc for maximum penetration fast move speed and best directional control
- Exclusively available including factory assembly, article number 9002800



Power Factor Correction

- **PFC** is an electrical or electronic circuit which increases the power factor

AC/DC Technology

Generator Friendly

HF

DC PULSE

Scope of delivery assembly ex works
Art no. 9002800
Assembly and filling of TIG welding device with coolant **CRAFT-TIG 323 AC/DC Pulse SET (Art. no. 1074323SET)** before delivery



CRAFT-TIG 323 AC/DC PULSE

The controls



1. *Parameter selection and setting button*
2. *Digital display multifunction display*
3. *Selection switch TIG HF, Lift Arc and MMA*
4. *Selection switch AC / DC*
5. *Selection switch gas or water-cooled*
6. *TIG 2T/4T mode selection switch*
7. *MMA Display*
8. *TIG parameter setting*

Model		CRAFT-TIG 323 AC/DC PULSE
Art. no.		1074323
€ plus VAT.		
Electrode		
Weldable electrodes	mm	1.6 – 5.0
Adjusting range		
TIG/Electrode setting range	A	10 – 320
Duty cycle		
DC at max. current 40 °C TIG/electrode	%	60
Current at 100 % DC 40 °C TIG/electrode	A	250
Power input		
TIG/Electrode power consumption	kVA	4.8 / 6.5
Electrical connection		
Required generator output	kVA	›10.3
Open circuit voltage		
AC TIG / DC TIG	V	84.6 / 76.4
AC Electrode / DC Electrode	V	75.8 / 75.6
Device data		
Pulse frequency	Hz	0.5 – 250
Ignition		High frequency
Torch cooling		Water
Electrical data		
Cos phi power factor		0.65
Current consumption TIG AC / TIG DC	A	18.8 / 19.5
Current consumption electrode AC / electrode DC	A	24.3 / 25.8
Supply voltage	V	400±10 %
Mains frequency	Hz	50/60
Dimensions (L x W x H)	mm	630 x 240 x 445
Net weight approx.	kg	26.2
Standard*		EN 60974-1:2012/EN 60974-10:2014

Not intended for use in residential areas where power is supplied by a low voltage public power supply grid



Scope of delivery CRAFT-TIG 323 AC/DC PULSE

- 3 m earth cable 35 mm² with ground clamp 300 A
- Torch Pro18 4 m, liquid-cooled
- 4 m gas hose including quick connector
- Water cooling unit
- Carriage
- **Without coolant**
- **Without pressure regulator**

Wear part set

Designation	Art. no.
Wear part set	1100152
Consisting of: 1x torch cap short, 1x torch cap medium, 1x torch cap long, 1x gas tip size 5 / 8 mm, 1x gas tip size 6 / 9.8 mm, 1x gas tip size 7 / 11.2 mm, 1x gas tip size 8 / 12.7 mm, 1x gas tip size. 10 / 15.7 mm, 1x each clamping sleeve 1.6 mm / 3.2 / 4.0 mm / 2.4 mm, 1x each clamping sleeve housing 1.6 mm / 2.4 mm / 3.2 / 4.0 mm, 1x Teflon seal for tip	
Wear part set "Mini":	1100200
Consisting of 1x Teflon seal for tip, 2x clamping sleeve 1.6 mm, 2x clamping sleeve 2.4 mm, 2x clamping sleeve 3.2 mm, 2x clamping sleeve housing 1.0 mm, 2x gas tip d=9.8 mm, 1x torch cap medium, 1x torch cap long, 1x torch cap short, 1x Teflon seal, 1x each gas lens 1.6 / 2.4 / 3.2 mm, 2x each clamping sleeve 1.6 / 2.4 / 3.2 mm, 2x gas tip gas lens size 6, 2xeach tungsten electrode gold 1.6 / 2.4 / 3.2 mm	



Wear part set

Accessories

Designation	Art. no.
Transition piece/Adapter 1/4“ OT x M12x1 IT/union nut	1104001
Pressure regulator Argon/CO_2 large Schweißkraft	1700050
4 m TIG torch SR26 gas-cooled	1104004
8 m TIG torch SR26 gas-cooled	1104008
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018
⑥ 4 m TIG torch SR18 liquid-cooled	1104024
⑥ 8 m TIG torch SR18 liquid-cooled	1104028
⑥ 4 m Up/Down TIG torch SR18 liquid-cooled	1104034
⑥ 8 m Up/Down TIG torch SR18 liquid-cooled	1104038
① Wireless manual remote control	1174003
② Wireless foot pedal remote control	1174007
③ Foot pedal, 5 m	1174009
Control cable complete with connector	1104011
Control cable connector 12-pin incl. contact pins	1104012
Coolant SKF 15 10 l - canister (pre-mixed)	1030110



schweißkraft
Schweißtechnik

PROFESSIONAL INVERTER TIG WELDING SYSTEMS

Qualität Made
in Germany



HIGH-TIG PLUS – Ultra-compact high performance TIG inverter with state-of-art design and revolutionary control solution. TIG welding has never been so simple or safe!

- Totally easy to control thanks to unique, graphical, dynamic, high-res display
- Working with PFC: this enables use with any type of power generator
- Global deployment thanks to multiple voltage
- High-performance primary inverter technology
- State-of-the-art technology guarantees perfect tacking and welding
- The electronics are dust-protected. Cooling air is routed through a special duct. This ensures optimum cooling and prevents contamination of the electronics
- The lightest TIG welding system in its performance class with a weight of just 7.1 to 7.9 kg
- Equipped with huge feature scope as standard
- Up to 230 Ampere from 230 Volt
- 230 Ampere models optionally available with liquid-cooling unit
- Built for the daily grind: Device survives drops from a height of up to 90 cm



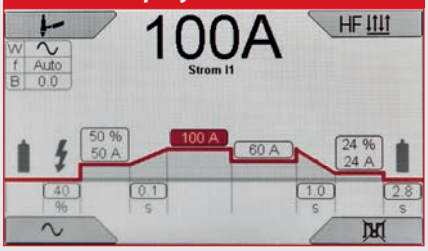


THE HIGHLIGHTS *HIGH-TIG PLUS*

- ✓ *Hi-res display*
- ✓ *High-performance primary inverter technology*
- ✓ *Power factor correction*
- ✓ *Dust-protected electronics*
- ✓ *Optimum cooling*
- ✓ *Hyper pulse at 17 500 Hz*
- ✓ *DUAL.WAVE technology*
- ✓ *Spot function as of 0.01 seconds*
- ✓ *Configurable ignition power*
- ✓ *Final current adjustable*
- ✓ *Start-up current adjustable*
- ✓ *AC frequency adjustable*
- ✓ *Triangular or square wave form selectable*
- ✓ *Welding voltage display*
- ✓ *Program memory*

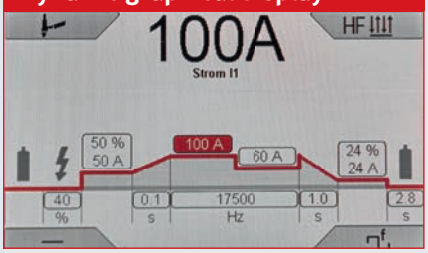
Revolutionary simple and safe operating solution!

Classic display



- Self-explanatory graphics show all settings at a glance. Relationships become transparent and understandable

Dynamic graphical display



- Welding parameter changes are displayed graphically
- Incorrect settings are immediately detected The display only shows settings that are actually active

Info & video

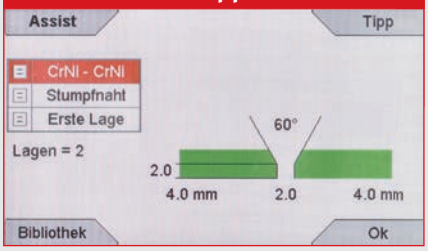
Fast and easy storing of four current welding tasks



Fast and easy navigation in the respective application field.

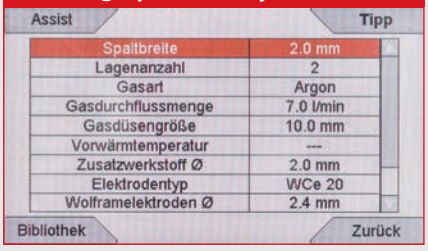
Four multifunctional selection switches

Assist - useful support



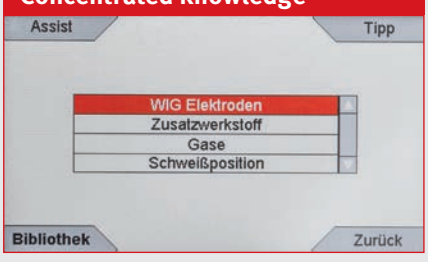
- Many years of experience in TIG welding are stored here. They can serve as useful practical tips for the welder, or be immediately applied as settings. This improves work safety and quality

Welding tips for everyone



- The HIGH-TIG supports the user with comprehensive facts relating to the welding task the user faces. This improves both safety and quality

Concentrated knowledge



- A library enables foolproof, fast and safe setting for simple and complex welding tasks. Setup via selection of the basic material and material thickness.

The lightweight model among TIG systems!

Technical specifications		HIGH-TIG PLUS 182 DC	HIGH-TIG PLUS 182 AC/DC	HIGH-TIG PLUS 230 DC	HIGH-TIG PLUS 230 AC/DC
Art. no.		1084182	1084183	1084230	1084231
TIG setting range	A	4-180	4-230	4-180	4-230
Duty cycle (DC) at $I_{max.}$ (10 min.) at 40 °C TIG	%	40	35	40	35
Power supply/mains frequency		1 x 230 V | 50/60 Hz			
Fuse		16 A			
Torch cooling	A	Gas/liquid			
Degree of protection		IP 23 S			
Power factor	cos phi	0.98	0.99	0.98	0.99
Power consumption at $I_{max.}$	kVA	6.1	5.8	6.1	5.8
Insulation class		F			
Welding cable socket	mm	13			
Weight	kg	7.1	7.5	7.3	7.9
Dimensions (L x W x H)	mm	480 x 160 x 320			
Standards		EN 60 974-1;-3;-10 / S mark / EMC - class A			

Similar to image. Subject to technical changes. Additional equipment on the devices shown is available for a surcharge. Standards: S mark/EN 60974-1; -10/EMC class A







▶ 90 cm drop height tested, thanks to floating electronics

Accessories set for HIGH-TIG series

Designation	Art. no.
Accessories set ABITIG 200 19 4 m: Aluminium transport box, ABITIG 200 19 4 m, UD GRIP HighFlex leather, earth cable 25 mm², pressure regulator Argon/CO_2,	1490035
Accessories set ABITIG 200 19 8 m: Aluminium transport box, ABITIG 200 19 **8** m, UD GRIP HighFlex leather, earth cable 25 mm², pressure regulator Argon/CO_2,	1410008



Accessories

Designation	Art. no.
Wear part set ABITIG 200	1490102
Wear part set ABITIG 260W	1466260
Ground cable 25 mm² 4m 13 mm with 400 A terminal	1250225
Electrode cable 25 mm² 5 m 13 mm with 260 A bracket	1250361
Pressure regulator Argon/CO^2	1700050
Gas hose 1.4 m	1499002
Coolant SKF 15 10 l - canister (pre-mixed)	1030110
Remote control foot pedal HIGH-TIG 182/230	1499010
Torch Duo cable 19-pole	1499011
Adapter cable torch HIGH-TIG 170/210 to HIGH-TIG 182/230 liquid-cooled	1499012
Adapter cable torch HIGH-TIG 170/210 to HIGH-TIG 182/230 gas-cooled	1499013
Aluminium transport box for HIGH-TIG	1499900



1700050



Coolant



Remote control foot pedal



Aluminium transport box

TIG torch with 19-pin plug connector

Gas-cooled up to max. 240A DC	Art. no.
ABITIG 200 19 4 m UD GRIP HighFlex leather	1490034
ABITIG 200 19 8 m UD GRIP HighFlex leather	1490038
Liquid-cooled up to max. 240A DC	
ABITIG 260W 19 4 m UD GRIP LITTLE HighFlex leather	1490054
ABITIG 260W 19 8 m UD GRIP LITTLE HighFlex leather	1490058



ABITIG 200 19 4 m UD GRIP HighFlex leather

Optional equipment for HIGH-TIG 230 DC and AC/DC

Designation	Art. no.
Water cooling unit	1499905



Water cooling unit

TIG welder, water-cooled HIGH-TIG digital 280 AC/DC COMPACT - The benchmark for modern TIG welding: weld quality, operating time and energy efficiency. Water cooling with centrifugal pump and energy management in the basic equipment.

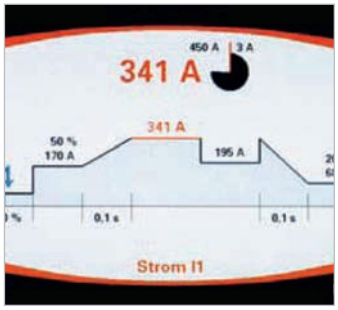
- Four coordinated applications for structured and simple operation: Classic and Assist for setting the welding parameters, Program Manager for program management and System for configuration/personalisation (e.g.: several languages such as German, Italian, Russian, English, ... selectable)
- High performance, low weight and maximum energy efficiency at 100 % duty cycle thanks to 200 kHz bi-power inverter
- All parameters can be automatically configured by selecting the material type and sheet thickness
- Essential adjustments are made precisely and in seconds with a control button that also simultaneously deflects all shocks and impacts directly into the robust housing
- Central, high-resolution graphics screen
- Huge memory with space for up to 1000 jobs and programs
- Two QUICK CHOICE buttons for saving two of the actual settings for a welding task in the blink of an eye
- Four multifunctional buttons for quick and easy navigation to any setting, even with gloves on
- Automatic frequency control: Automatic adaptation of the frequency to the amperage during AC welding, focussed arc at low welding currents for safer root detection, e.g. on thin sheets in fillet welds. At higher currents, the load on the tungsten electrodes is reduced.
- Easy welding of aluminium, e.g. on sheet edges, in constrained positions or with "thick on thin": DUAL WAVE welding process reduces the AC content in the arc to a minimum. The reduced heat input makes the weld pool easier to control.
- Automatically find the right AC wave form with AC-Matic
- Hyperpulse up to 15,000 Hz for less annealing, distortion and rework in spot and interval welding
- Automatic tacking function from 0.01 seconds for consistent quality of tack welds and reduction of annealing by almost 100 %
- Safe ignition of the TIG DC arc with Lift-Arc and optimum setting of the ignition energy for stick electrodes thanks to Ignition Command System
- ELSA.PRO system with precise digital welding process control for exact reproducibility also for melt pools with large surfaces and for excellent welding properties
- Plug & Play with iSYSTEM for versatile use thanks to the CAN-networked multiprocessor architecture with intelligent expansion modules
- Closed cooling system, separate from electronics for a longer service life





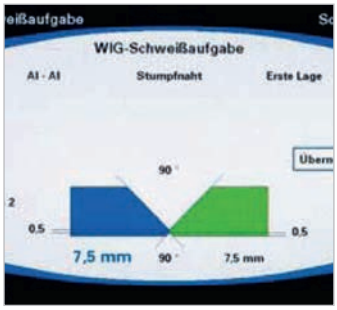
The control system:

1. QUICK CHOICE buttons
2. R-Pilot
3. Multifunctional selection keys
4. Selection Classic Application
5. Selection Program Manager Application
6. Selection Assist Application
7. Selection System Application



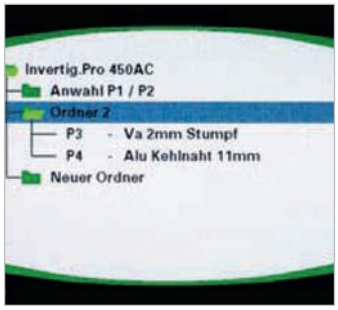
Classic – everything in view, everything under control
Extremely easy to use thanks to the self-explanatory, dynamic graphic display

- *All unit settings at a glance*



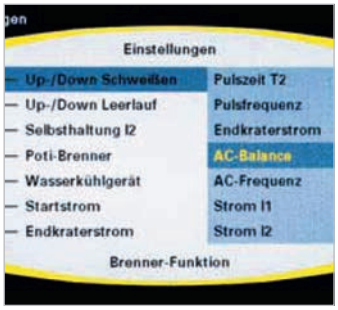
Assist – the experienced wizard for all cases
Whether beginner or professional - simply set the welding task and start welding.

- *Extensive expert knowledge for your welding task. Directly accessible at the workplace*



Program Manager - the right program for everyone

- *100 % repeatability and consistent quality to the highest standards*
- *The clear program structure ensures quick access to the desired programs*



Application System - configuration becomes child's play

- *Great flexibility through customised solutions - the welding unit can be individually adapted to the user's needs*

Model		HIGH-TIG digital 280 AC/DC COMPACT
Art. no.		1084428
Duty cycle		
Duty cycle at max. current 40 °C TIG	%	100
Duty cycle at max current 40 °C electrode	%	60
Current at 100 % DC 40 °C TIG	A	280
Current at 100 % DC 40 °C electrode	A	260
Device data		
Torch cooling		Water
Electrical data		
Current consumption electrode DC		3 x 400
Standards and certifications		
Identifier		855
Dimensions and weights		
Length (product) approx.	mm	600
Width/depth (product) approx.	mm	900
Height (product) approx.	mm	78
Premium set recommendation (liquid cooled)		R-TIG 260W/50
Standards		EN 60 974-1;-3;-10 / EN 50199 / S mark / EMC - class A
Transport surcharge*		**TPSRS2 = €19.00**



Scope of delivery
without torch set (torch, ground cable, pressure regulator)



Premium sets:

Art. no.	Designation
1462635	Premium-Set R-TIG 260 W-8 m/35 mm²
1462651	Premium-Set R-TIG 260 W-8 m/50 mm²
1485220	Premium-Set R-TIG 450 W-8 m/70 mm²
1464595	Premium set R-TIG 450W SC-8 m/95 mm²



Welding torch alternatively gas cooled

Art. no.	Designation
1465204	R-TIG 12-200, 4 m, Up/Down Highflex iSYSTEM
1465208	R-TIG 12-200, 8 m, Up/Down Highflex iSYSTEM
1465212	R-TIG 12-200, 12 m, Up/Down Highflex iSYSTEM



Torch R-TIG with UP/DOWN function



Earth cable 4 m



Pressure regulator

Earth cable, pressure regulator, gas hose

Art. no.	Designation
1250235	Earth cable 35 mm², 4 m complete with clamp
1250250	Earth cable 50 mm², 4 m complete with clamp
1250270	Earth cable 70 mm², 4 m complete with clamp
1250295	Earth cable 95 mm², 4 m complete with clamp
1700050	Pressure regulator with content and operation manometer



Foot pedal

Remote control

Art. no.	Designation
1416001	Foot-operated remote control P1 iSystem with 5 m control cable
1416002	Manual remote control P2 5 m
1416003	Extension 12 m manual remote control P2
1416004	Extension 20 m manual remote control P2
1416005	Extension 25 m manual remote control P



Welding torch alternatively liquid cooled

Art. no.	Designation
1465264	R-TIG 12-260 W, 4 m, Up/Down Highflex iSYSTEM
1465268	R-TIG 12-260W, 8 m, UP/DOWN Highflex iSYSTEM
1465265	R-TIG 12-260 W, 12 m, Up/Down Highflex iSYSTEM
1465454	R-TIG 12-450 W, 4 m, Up/Down Highflex iSYSTEM
1465458	R-TIG 12-450 W, 8 m, Up/Down Highflex iSYSTEM
1465455	R-TIG 12-450 W, 12 m, Up/Down Highflex iSYSTEM
1465456	R-TIG 12-450 W SC, 4 m, Up/Down Highflex iSYSTEM
1465459	R-TIG 12-450 W SC, 8 m, Up/Down Highflex iSYSTEM
1465457	R-TIG 12-450 W SC, 12 m, Up/Down Highflex iSYSTEM



Accessories

Art. no.	Designation
1033679	CAN connecting cable (TIG inverter to CONTROL.PRO, 5 m)
1033681	Automation interface
1466001	Adapter cable 7/12: *For torches with a 7-pin plug, gas/water-cooled without potentiometer*
1030110	Coolant "RKF 15", 10l canister

Optional equipment

Cannot be retrofitted, only available for new machine orders

Art. no.	Designation
1419005	Torch holder
1419004	Crane eyes with storage compartment
1419003	Air filter attachment for liquid cooling
1419000	Tool set
1411500	Program converter



Torch holder



Air filter attachment for liquid cooling



Tool set



Crane eyes with storage compartment



Program converter

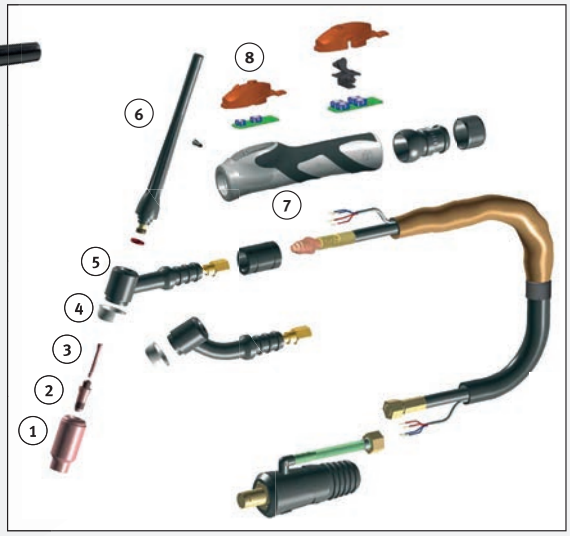
TIG TORCHES





Torch SR 17 gas-cooled
(for EASY-TIG 181DC)



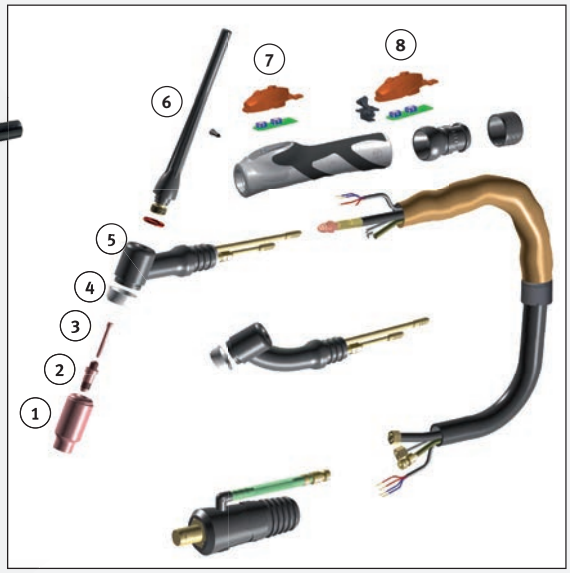


Technical specifications:		
Duty cycle (at 35 %)	140 A (DC)	125 A (AC)
Electrode Ø:	0.5 + 2.4 mm	
Gas flow	1.5 l/min	
Connection	TSK 50-1/4G	

	Art. no.
4 m TIG torch SR17	1104044
8 m TIG torch SR17	1104048

TIG torch SR18 liquid-cooled
Up/Down TIG torch SR18 liquid-cooled
(for CRAFT TIG series)





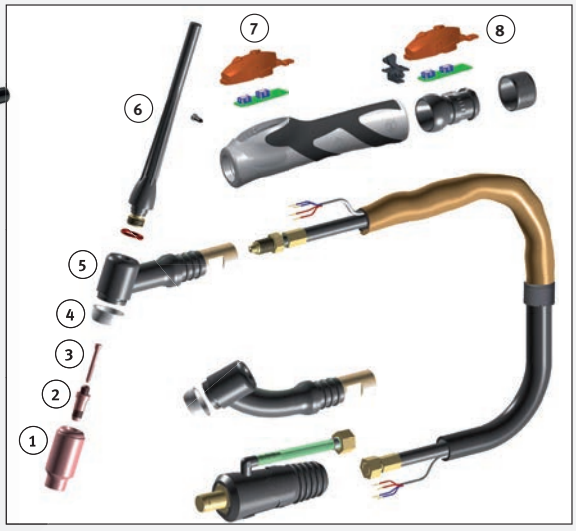
Technical specifications:		
Duty cycle (at 100 %)	320 A (DC)	270 A (DC)
Electrode Ø:	0.5 – 4.0 mm	
Connection	TSK 50-1/4G	

Designation	Art. no.
4 m TIG torch SR18 liquid-cooled	1104024
8 m TIG torch SR18 liquid-cooled	1104028

Designation	Art. no.
4 m Up/Down TIG torch SR18 liquid-cooled	1104034
8 m Up/Down TIG torch SR18 liquid-cooled	1104038

TIG torch SR26 gas-cooled
Up/Down TIG torch SR26 gas-cooled
(for CRAFT TIG series and EASY TIG series)





Technical specifications:		
Duty cycle (at 35 %)	180 A (DC)	150 A (DC)
Electrode Ø:	0.5 + 4 mm	
Connection	TSK 50-1/4G	

Designation	Art. no.
4 m TIG torch SR26 gas-cooled	1104004
8 m TIG torch SR26 gas-cooled	1104008

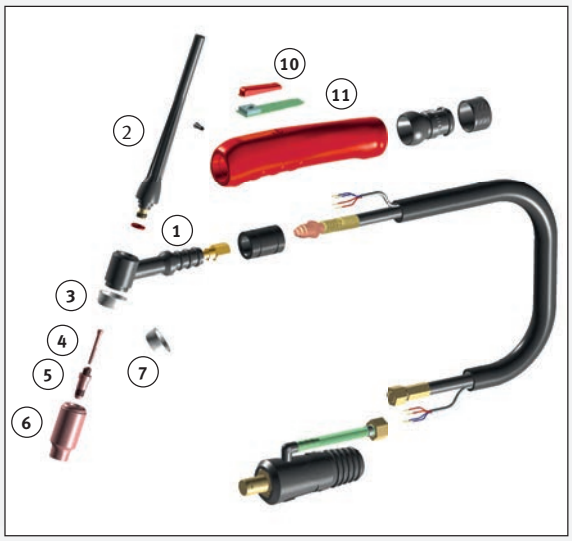
Designation	Art. no.
4 m Up/Down TIG torch SR26 gas-cooled	1104014
8 m Up/Down TIG torch SR26 gas-cooled	1104018

SSR 17 DD with potentiometer and leather,
gas-cooled
(for HIGH-TIG 160/HIGH-TIG 170)



(for HIGH-TIG 160 DC/ HIGH-TIG 170 DC)

(for HIGH-TIG 160/170 DC Digital & HIGH-TIG 160/170 AC/DC Digital)



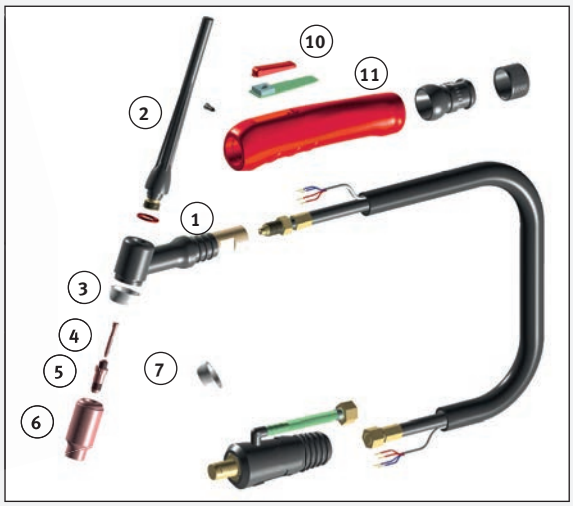
Technical specifications:		
Duty cycle (at 35 %)	140 A (DC)	125 A (DC)
Electrode Ø:	0.5 + 2.4 mm	
Gas flow	5 – 12 l/min	
Connection	TSK 35/50, Gas NW 2.7	
Specification	With potentiometer	
Equipment ex works	Kit 2.4 mm	

Designation	Art. no.
SSR 17 DD Potentiometer/4 m	1100174
SSR 17 DD Poti/8 m	1100178

Designation	Art. no.
SSR 7-17 DD Potentiometer/4 m	1101740
SSR 7-17 DD Poti/8 m	1101780

SSR 7-26 DD with potentiometer and leather,
gas-cooled
(for HIGH-TIG 200/210 AC/DC Digital)





Technical specifications:		
Duty cycle (at 100 %)	240 A (DC)	200 A (DC)
Electrode Ø:	0.5 + 4.0 mm	
Gas flow	5 – 12 l/min	
Connection	TSK 35/50, Gas NW 2.7	
Specification	With potentiometer	
Equipment ex works	Kit 2.4 mm	

Designation	Art. no.
SSR 7-26 DD Potentiometer/4 m	1102640
SSR 7-26 DD Poti/8 m	1102680

Torch accessories for torches **SR17, SR 18, SR 26, SSR 17 DD** and **SSR 7-26 DD**

	No.	Designation	Design	Ø / nominal width	Art. no.	PU (1)
	1	Gas tip 47 mm		6.4 mm	1100304	10
		Gas tip 47 mm		8.0 mm	1100305	10
		Gas tip 47 mm		9.8 mm	1100306	10
		Gas tip 47 mm		11.2 mm	1100307	10
		Gas tip 47 mm		12.7 mm	1100308	10
		Gas tip 47 mm		15.7 mm	1100310	10
		Gas tip 47 mm		19.0 mm	1100312	10
	4	Teflon seal for tip			1100105	10
	No.	**Designation**	**Design**	**Ø / nominal width**	**Art. no.**	**PU (1)**
	2	Clamping sleeve housing		1.0 mm	1100210	10
		Clamping sleeve housing		1.6 mm	1100216	10
		Clamping sleeve housing		2.4 mm	1100224	10
		Clamping sleeve housing		3.2 mm	1100232	10
		Clamping sleeve housing		4.0 mm	1100240	10
	No.	**Designation**	**Design**	**Ø / nominal width**	**Art. no.**	**PU (1)**
	3	Clamping sleeve		1.0 mm	1100110	10
		Clamping sleeve		1.6 mm	1100116	10
		Clamping sleeve		2.4 mm	1100124	10
		Clamping sleeve		3.2 mm	1100132	10
		Clamping sleeve		4.0 mm	1100140	10
	No.	**Designation**	**Design**	**Ø / nominal width**	**Art. no.**	**PU (1)**
		Gas tip for gas lens size 4		6.4 mm	1100314	10
		Gas tip for gas lens size 5		8.0 mm	1100315	10
		Gas tip for gas lens size 6		9.8 mm	1100316	10
		Gas tip for gas lens size 7		11.2 mm	1100317	10
		Gas tip for gas lens size 8		12.7 mm	1100318	10
	No.	**Designation**	**Design**	**Ø / nominal width**	**Art. no.**	**PU (1)**
	8	Gas lens		1.0 mm	1103010	5
		Gas lens		1.6 mm	1103016	5
		Gas lens		2.4 mm	1103024	5
		Gas lens		3.2 mm	1103032	5
		Gas lens		4.0 mm	1103040	5
		Teflon seal for gas lens			1100107	10

Wear part set
for SR 17/18 and 26
1x Short torch cap
1x Medium torch cap
1x Long torch cap

1x Gas tip size 5 / 8 mm
1x Gas tip size 6 / 9.8 mm
1x Gas tip size 7 / 11.2 mm
1x Gas tip size 8 / 12.7 mm
1x Gas tip size 10 / 15.7 mm

1x Clamping sleeve 1.0 mm
1x Clamping sleeve 1.6 mm
1x Clamping sleeve 2.4 mm
1x Clamping sleeve 3.2 mm
1x Clamping sleeve 4.0 mm

1x Clamping sleeve housing 1.6 mm
1x Clamping sleeve housing 2.0 mm
1x Clamping sleeve housing 2.4 mm
1x Clamping sleeve housing 3.2 mm
1x Clamping sleeve housing 4.0 mm



Wear part set Mini
1x Teflon seal for tip
2x Clamping sleeve 1.6 mm
2x Clamping sleeve 2.4 mm
2x Clamping sleeve 3.2 mm
2x Clamping sleeve housing 1.0 mm

2x Gas tip d=9.8 mm
1x Medium torch cap
1x Long torch cap
1x Short torch cap
1x Teflon seal

1x Gas lens 1.6 mm
1x Gas lens 2.4 mm
1x Gas lens 3.2 mm
2x Clamping sleeve 1.6 mm
2x Clamping sleeve 2.4 mm

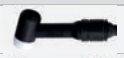
2x Clamping sleeve 3.2 mm
2x Gas tip for gas lens size 6
2x Tungsten electrode gold 1.6 mm
2x Tungsten electrode gold 2.4 mm
2x Tungsten electrode gold 3.2 mm

(1) PU = Quantity in pieces per packaging unit Purchase only possible in PU

See next page for more accessories

Torch accessories for torches **SR17, SR 18, SR 26, SSR 17 DD** and **SSR 7-26 DD**

	No.	Designation	Design	Ø / nominal width	Art. no.	PU (1)	
		Gas tip Mini size 4		6.4 mm	1100401	10	
		Gas tip Mini size 5		8.4 mm	1100402	10	
		Gas tip Mini size 6		9.8 mm	1100403	10	
		Gas tip Mini size 7		11.2 mm	1100404	10	
		Gas tip Mini size 8		12.7 mm	1100405	10	
		Gas tip Mini size 10		15.7 mm	1100406	10	
	No.					**PU** (1)	
		Gas lens Mini size 4			1100511	10	
		Gas lens Mini size 5			1100512	10	
		Gas lens Mini size 6			1100513	10	
		Gas lens Mini size 7			1100514	10	
		Gas lens Mini size 8			1100515	10	
		Teflon seal for gas lens Mini			1472102	10	
	No.					**PU** (1)	
		Clamping sleeve Mini		1.0 mm	1473110	10	
		Clamping sleeve Mini		1.6 mm	1473116	10	
		Clamping sleeve Mini		2.4 mm	1473124	10	
		Clamping sleeve Mini		3.2 mm	1473132	10	
	No.					**PU**(1)	
		Clamping sleeve housing Mini		1.6 mm	1473516	10	
		Clamping sleeve housing Mini		2.4 mm	1473524	10	
		Clamping sleeve housing Mini		3.2 mm	1473532	10	

	No.					PU (1)	
	5	Torch body **(for SR17)**			1100750	1	
	5	Torch body **(for SR18)**			1100850	1	
	1	Torch body **(for SR26)**			1100650	1	
	6	Long torch cap 117 mm			1100100	2	
		Short torch cap 22.5 mm			1100101	2	
	7	Handle shell set			1100150	1	
	8	Pushbutton **(for SSR 17 DD, SSR 7-26 DD)**			1100102	1	
		Potentiometer 10k			1100112	1	
	11	Handle shell halves for potentiometer **(for SSR 17 DD, SSR 7-26 DD)**			1100113	1	
		Wear part set			1100152	1	
		Wear part set "Mini"			1100200	1	

(1) PU = Quantity in pieces per packaging unit Purchase only possible in PU

R-TIG 12-260 W liquid-cooled
(for HIGH-TIG systems)

Technical specifications:		
Duty cycle (at 60 %)	240 A (DC)	170 A (DC)
Electrode diameter	1.0 – 3.2 mm	
Specification	Up/Down, iSYSTEM	
Cooling	Liquid-cooled	

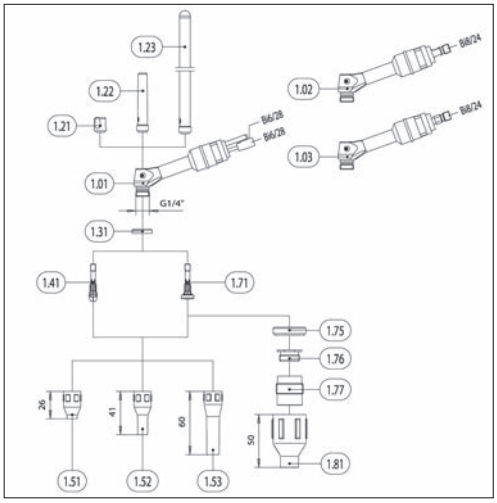
Designation	Art. no.
R-TIG 12-260 W/4 m, Up/Down, Plug & Play	1490054
R-TIG 12-260 W/8 m, Up/Down, Plug & Play	1490058

R-TIG 150 gas-cooled
(for HIGH-TIG systems)

Technical specifications:		
Duty cycle (at 60 %)	140 A (DC)	100 A (DC)
Electrode diameter	1.0 – 2.4 mm	
Specification	UD GRIP-LITTLE HighFlex leather	
Cooling	gas-cooled	

Designation	Art. no.
R-TIG 150 19 4 m UD GRIP-LITTLE HighFlex leather	1490014
R-TIG 150 19 8 m UD GRIP-LITTLE HighFlex leather	1490018





	No.	Designation	Design	Ø / nominal width	Art. no.	PU (1)	
	1.41	Electrode holder		1.6 mm	1466037	5	
		Electrode holder		2.4 mm	1466039	5	
		Electrode holder		3.2 mm	1466040	5	
	1.71	Gas diffusor 1.0 mm		1.0 mm	1466049	5	
		Gas diffusor 1.6 mm		1.6 mm	1466050	5	
		Gas diffusor 2.4 mm		2.4 mm	1466052	5	
		Gas diffusor 3.2 mm		3.2 mm	1466053	5	
	1.31	Insulator			1466035	10	
	1.51	Ceramic gas tip		6.5 mm	1466041	10	
		Ceramic gas tip		8 mm	1466042	10	
		Ceramic gas tip		10 mm	1466043	10	
		Ceramic gas tip		11.5 mm	1466044	10	
	1.21	Short torch cap			1466032	1	
	1.22	Medium torch cap			1466033	1	
	1.23	Long torch cap			1466034	1	
		Wear part set R-TIG 12-260 W			1466260	1	

(1) PU = Quantity in pieces per packaging unit Purchase only possible in PU

R-TIG 200 gas-cooled
(for HIGH-TIG systems)

Technical specifications:		
Duty cycle (at 60 %)	200 A (DC)	140 A (DC)
Electrode diameter	1.6 – 3.2 mm	
Specification	Up/Down, iSYSTEM	
Cooling	gas-cooled	

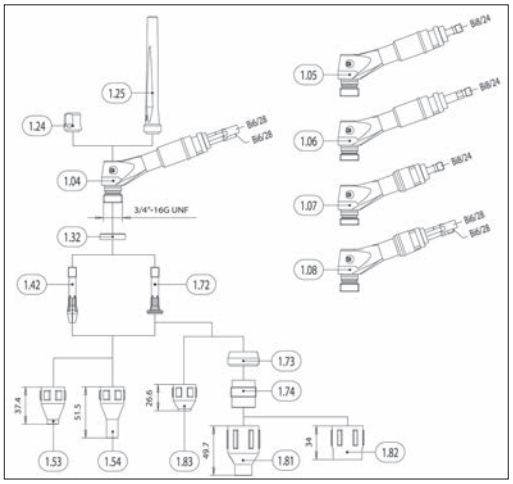
Designation	Art. no.
R-TIG 200 19 4 m UD GRIP HighFlex leather	1490034
R-TIG 200 19 8 m UD GRIP HighFlex leather	1490038

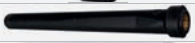


R-TIG 12-450 W liquid-cooled
(for PRO-TIG 350 AC/DC)

Technical specifications:		
Duty cycle (at 60 %)	400 A (DC)	300 A (DC)
Electrode diameter	1.6 – 4.8 mm	
Specification	Up/Down, iSYSTEM	
Cooling	Liquid-cooled	

Designation	Art. no.
R-TIG 12-450 W/4 m, Up/Down, Plug & Play	1465454
R-TIG 12-450 W/8 m, Up/Down, Plug & Play	1465458
R-TIG 12-450 W/12 m, Up/Down, Plug & Play	1465455



	No.	Designation	Ø / nominal width	Art. no.	PU*	
	1.42	Electrode holder	1.6 mm	1466009	5	
		Electrode holder	2.4 mm	1466011	5	
		Electrode holder	3.2 mm	1466012	5	
		Electrode holder	4.0 mm	1466013	5	
		Electrode holder	4.8 mm	1466014	5	
	1.72	Gas diffusor	1.6 mm	1466025	5	
		Gas diffusor	2.4 mm	1466027	5	
		Gas diffusor	3.2 mm	1466028	5	
		Gas diffusor	4.0 mm	1466029	5	
		Gas diffusor	4.8 mm	1466030	5	
	1.32	Insulator		1466008	10	
	1.53	Ceramic gas tip	7.5 mm	1466015	10	
		Ceramic gas tip	10 mm	1466016	10	
		Ceramic gas tip	13 mm	1466017	10	
		Ceramic gas tip	13 mm	1466018	10	
		Ceramic gas tip	15 mm	1466019	10	
		Ceramic gas tip	15 mm	1466020	10	
	1.24	Short torch cap		1466006	1	
	1.25	Long torch cap		1466007	1	
		Wear part set VTS R TIG 200		1490102	1	

(1) PU = Quantity in pieces per packaging unit Purchase only possible in PU

schweißkraft®
Schweißtechnik

ELECTROCHEMICAL METAL PROCESSING



CLEANO 3 – The entry-level model for cleaning TIG welds

Tools and accessories
- Tools are completely in stainless steel - thus no corrosion
- Tools have a bayonet connection - thus supporting ultra-fast changing
- All electrolytes are environmentally friendly and can be used in the food industry

The CLEANO 3 supports versatile applications and includes 1 program:
- Cleaning with high-performance brush

With high-performance carbon fibre brush
can reach hard-to-access places and clean long welds
- And with excellent quality
- Efficient cleaning of TIG welds in seconds

Proven transformer technology allows for:
a compact device design
- Highly reliable operation
- Robust handling
- Easy and safe operation
- Use in the workshop and on-site

Features:
- 10 Volt AC
- Robust carrying handle



Info & Video

Qualität Made in Germany



Technical specifications		CLEANO 3
Art. no.		1231120SK

Technical specifications		
Primary voltage	V	230
Mains frequency	Hz	50/60
Phase(s)	Ph	1
Output voltage, alternating current	V	10
Output current max.	A	80
Output	W	800
Weight	kg	7.9
Dimensions L x w x h	mm	298 (1) x 145 x 225

(1) without cable connection

Initial equipment set for CLEANO 3 1231120ES

comprising:

1231124KK	plastic case
1236026ST	High-performance brush Brushline Ø 10 mm
1235024KS	ground cable black, 3 m with bayonet connection
1235024KR	ground cable red, 3 m with bayonet connection
1232500WB	Wide-necked container, 500 ml
1232040DC	Electrolyte C Plus, 1 litre



You will find a wide range of accessories and descriptions in the BYMAT price list 2021 or on www.schweisskraft.de!

CLEANO 4 – The professional entry-level model for easy and safe cleaning and polishing of TIG welds. And additionally also for light and dark signing

Tools and accessories:
- Tools are completely in stainless steel - thus no corrosion
- Tools have a bayonet connection - thus supporting ultra-fast changing
- All electrolytes are environmentally friendly and can be used in the food industry

The CLEANO 4 supports versatile applications and includes 4 different programs:
- Cleaning with high-performance brush
- Polishing with high-performance brush
- Dark signing
- Light signing

With high-performance carbon fibre brush
can reach hard-to-access places and clean long welds
- And with excellent quality
- Efficient cleaning of TIG/TIG welds in seconds

Proven transformer technology allows for:
a compact device design
- Highly reliable operation
- Robust handling
- Easy and safe operation
- Use in the workshop and on-site

Features:
- 3-stage switch
- Programs (cleaning/polishing,marking)
- Robust carrying handle

Qualität Made in Germany



① *WELD CLEANING*
② *POLISHING*
③ *MARKING*

Info & Video



Technical specifications	CLEANO 4
Art. no.	1231130SK

Technical specifications	
Primary voltage	230 V, 50 - 60 Hz
Secondary voltage	10 / 12 V AC, 12V DC
Current output	80 A
Output	800 W
Weight	11.9 kg
Dimensions (L x W x H)	345 (1) x 180 x 285 mm

(1) without cable connection

Initial equipment set for CLEANO 4 1231130ES

comprising:

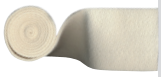
1231124KK	plastic case
1236026ST	High-performance brush Brushline Ø 10 mm
1235024KS	ground cable black, 3 m with bayonet connection
1235024KR	ground cable red, 3 m with bayonet connection
1232500WB	Wide-necked container, 500 ml
1232040DC	Electrolyte C Plus, 1 litre



You will find a wide range of accessories and descriptions in the BYMAT price list 2021 or on www.schweisskraft.de!

PREMIUM*LINE* / BRUSH*LINE* accessories

BYMAT accessories	Product description	Art. no.
	**5024 KR** Premiumline Ground cable red, 3 m with bayonet connection and ground clamp	1235024KR
	**5024 KS** Premiumline ground cable black, 3 m with bayonet connection	1235024KS
	**5024 KL** ground clamp for welding cable	1235024KL
	**502430** Adapter for Brushline and Premiumline	123502430
	**5024 AK** Adapter with carbon anode 90°	1235024AK
	6024 VL Replacement nonwoven filter for 6024 RS (bag of 5)	1236024VL
	**5024 HG** PTFE (Teflon) handle, extremely resistant to acids and heat	1235024HG
	**5024 ST** PTFE (Teflon) polishing die, extremely resistant to acids and heat with 60° carbon anode	1235024ST
	**5025 ST** PTFE (Teflon) polishing die, extremely resistant to acids and heat with 90° carbon anode	1235025ST
	**6025 ST** High performance brush with PTFE (Teflon) handle, extremely acid-resistant, heat-resistant, with brush A small 8 mm and adjustment sleeve	1236025ST
	6026 ST High-performance brush with PTFE (Teflon) handle, highly acid-resistant, heat-resistant, with brush B medium 10 mm and adjusting sleeve	1236026ST
Info & video The right approach with a high-performance brush	**6027 ST** High-performance brush with PTFE (Teflon) handle, highly acid-resistant, heat-resistant, with brush C large 14 mm and adjusting sleeve	1236027ST
	**6025 PI** Brush A small 8 mm (blue) and adjusting sleeve made of PTFE	1236025PI
	**6026 PI** Brush B medium 10 mm (black) and adjusting sleeve made of PTFE	1236026PI
	**6027 PI** Brush C large 14 mm (red) and adjusting sleeve made of PTFE	1236027PI
	**6025 PO** Replacement brush A small 8 mm (blue)	1236025PO
	**6026 PO** Replacement brush B medium 10 mm (black)	1236026PO
	**6027 PO** Replacement brush C large 14 mm (red)	1236027PO

BYMAT accessories	Product description	Art. no.
	**6025 VH** Adjusting sleeve made of PTFE (Teflon) A small for replacement brush 6025 PO, Ø 8 mm	1236025VH
	6026 VH Adjusting sleeve made of PTFE (Teflon) B medium for replacement brush 6026 PO, Ø 10 mm	1236026VH
	6027 VH Adjusting sleeve made of PTFE (Teflon) C large for replacement brush 6027 PO, Ø 14 mm	1236027VH
	Cleaning and marking pads (made of Nomex) **1206 SF** cleaning and marking pads 38 x 60 x 2.6 mm, 20 units **1207 SF** cleaning and marking pads 38 x 60 x 2.6 mm, 100 units	1231206SF 1231207SF
	Cleaning and marking pads (made of Nomex) **1208 SF** cleaning and marking pads, roll, 1 m x 60 mm x 2.6 mm, 10 units **1208 SF** cleaning and marking pads, roll, 5m x 60mm x 2.6mm	1231208SF 1231209SF
	Polishing pads made of Kevlar - Aramid **1216 PF** Polishing pads, 40 x 60 x 2.5 mm, 20 units **1217 PF** Polishing pads, 40 x 60 x 2.5 mm, 100 units	1231216PF 1231217PF
	Polishing pad roll, Kevlar - Aramid **1214 PF** Polishing pad roll, 1 m x 60 mm x 2.5 mm, 10 rolls **1215 PF** Polishing pad roll, 5 m x 60 mm x 2.5 mm **1218 PF** Polishing pad roll, 25 m x 60 mm x 2.5 mm	1231214PF 1231215PF 1231218PF
	Polishing pads made of Kevlar **1219 PP** Professional polishing pads 38 x 60 x 2.0 mm, 20 units **1220 PP** Professional polishing pads 38 x 60 x 2.0 mm, 100 units	1231219PP 1231220PP
	Polishing pads made of Aramid **1212 AF** Aramid belt roll 5 m x 40 mm x 2 mm **1213 AF** Aramid belt roll 25 m x 40 mm x 2 mm	1231212AF 1231213AF
	**1205 OR** Replacement O-rings 26 x 2 mm, bag of 10 units **1127 OR** Replacement O-rings 26 x 2 mm, bag of 100 units (also for CLASSIC*LINE*)	1231205OR 1231127OR
	**2500 WB** Wide-necked container, 500 ml (also for CLASSIC*LINE*)	1232500WB
	**2100 SF** Spraying bottle for water, 1 litre for filling with water or Neutralyt (also for CLASSIC*LINE*)	1232100SF
	**2150 DS** Pressure spraying bottle for water, 1.5 litre for filling with water or Neutralyt (also for CLASSIC*LINE*)	1232150DS

Electrochemical metal processing

Electrolytes for cleaning/polishing



Electrolytes for cleaning of TIG welds	Art. no.
Brush gel NON-DRIP A 500 ml	1232020PG
***Basis**: Phosphoric acid*	
Electrolyte A, for cleaning glossy steels	
1 000 ml	1232030DH
5000 ml	1232035DH
Electrolyte LF, for cleaning glossy steels	
1 000 ml	1232030LF
5000 ml	1232035LF
Electrolyte B, for cleaning matt steels	
1 000 ml	1232011DB
5000 ml	1232015DB
For polishing TIG welds	
Electrolyte C, for electro-chemical polishing	
500 ml	1232020DC
1 000 ml	1232021DC
5000 ml	1232025DC
For cleaning and polishing TIG & MIG/MAG welds	
Electrolyte C Plus, for electro-chemical polishing	
2040 DC – 1000 ml	1232040DC
2045 DC – 5000 ml	1232045DC

Electrolyte for marking



For marking	
100 ml	1232101ET
500 ml	1232105ET
1 000 ml	1232111ET
5 000 ml	1232115ET
For negative marking	
100 ml	1232170EN
For light marking (similar to engraving)	
500 ml	1232175EN
1 000 ml	1232171EN
5 000 ml	1232185EN
For dark marking	
100 ml	1232101EC-S
500 ml	1232105EC-S
1 000 ml	1232111EC-S
5 000 ml	1232115EC-S

Label printers and lettering tapes

Designation	Art. no.
Label printer BROTHER P-Touch	123D600 VP



Professional desktop lettering device with PC connection, desktop device for printing TZ tapes in the widths 3.5 to 24 mm. Incl. USB connection for use on PC and MAC. All fonts and symbols installed in Windows/Mac can be used. Links to databases, or add-ins for Microsoft Excel, Word and Outlook can be defined, e.g., for printing logos or symbols. Tape widths 3.5 / 6 / 9 / 12 / 18 and 24 mm, 14 built-in fonts, 8 font sizes and 10 font aspects, colour display, multiple print-out up to 99 times, consecutive numbering, automatic tape cutter, barcode printing.
Scope of delivery: Hard shell case, mains adapter, USB cable, CD-ROM (software/drivers PC/MAC),1 TZ lettering tape cassette (24 mm black on white), user manual

Special lettering tapes for Brother P-Touch devices	
Special lettering tape for Brother, 18 mm x 3 m	1231410ST
Special lettering tape for Brother, 24 mm x 3 m	1231510ST
Special lettering tape for Brother, 36 mm x 3 m	1231610ST



For dark marking of chrome vanadium	
100 ml	1232120EC
500 ml	1232125EC
1 000 ml	1232126EC
5000 ml	1232127EC
For marking Ms, Cu, Zinn	
100 ml	1232130EM
500 ml	1232135EM
Electrolyte for marking aluminium	
100 ml	1232140EA
500 ml	1232145EA
Special electrolyte for marking chrome	
500 ml	1232615SC
For dark marking of stainless steel with a high chrome content	**Art. no.**
100 ml	1232601ER
500 ml	1232600ER
For dark marking of stainless steel with a high nickel content	
100 ml	1232601CA
500 ml	1232600CA
1 000 ml	1232610CA

Electrolyte for neutralising

Neutralyte for neutralising electrolytes,	
500 ml	1232215NT
1 000 ml	1232211NT
5000 ml	1232250NT

Electrolyte for electroplating

Electrolyte for electroplating - zinc	
100 ml	1232410GZ
500 ml	1232450GZ
Electrolyte for electroplating - gold	
100 ml	1232510GG
500 ml	1232550GG
Electrolyte for electroplating - silver	
100 ml	1232710GS
500 ml	1232750GS

Comparison of electrolytes

Info & video

Cleaning with carbon fibre brush:

- Electrolyte C
- Electrolyte C Plus
- Electrolyte LF
- Electrolyte A



Label printer P-Touch 9700 PC	1239700PC



Professional labelling device for the PC, for strips with a width of up to 36 mm. For TZ lettering tapes of 3.5/6/9/12/18/24 and 36mm width, for HG lettering tapes of 6/9/12/18/24 and 36 mm width, automatic cutting unit for full and half-cut, adjustable label length, USB and serial interface, up to 20 mm/sec. printing speed and 360 dpi print resolution (TZ), up to 80 mm/s print speed or 720 dpi print resolution (HG), uni- and two-dimensional barcodes, import of Excel tables and databases, printing of imported graphics and logos, use of all fonts and symbols integrated in the PC, incl. comprehensive software and lettering tape cassette.

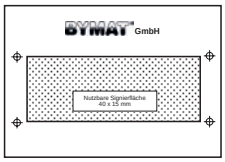
Special lettering tapes for Casio C500 KL label printer	
Special lettering tape for Casio label printer 18 mm x 3 m	1231800XR
Special lettering tape for Casio label printer 24 mm x 3 m	1232400XR

Templates

Designation	Art. no.
Temporary templates	
· Suitable for producing your own templates · For lettering with a typewriter, ballpoint, or dot-impact printer · For continuous serial numbers, tool labelling, etc. · Also available on rolls for dot-impact printers	
	
Temporary template, blue, 75 x 180 mm, 100 units	1231011KS
Temporary template, blue, 215 x 275 mm, 10 units	1231015KB
Permanent templates	
· Created individually to your specs · Manufactured to your specs with graphics, trademarks, type plates, device numbers, ID numbers, scales, fonts and logos provided by you · Very long service life: up to 5000 marking operations possible with one template	
	
One-off layout costs for permanent template	
Layout costs in case of repro-capable original	1231000SD
based on original (e.g., business card, letterhead, fax)	1231000SK
External dimensions 35 x 40 mm - usable area 25 x 15 mm	
in plastic frame	1231001SB
framed	1231001SU
External dimensions 1/2 DIN A8 (74 x 36 mm) - usable area 54 x 16 mm	
in plastic frame	1231012SB
framed	1231012SU
External dimensions DIN A8 (74 x 52 mm) - usable area 54 x 32 mm	
in plastic frame	1231002SB
framed	1231002SU
External dimensions 1/2 DIN A7 (105 x 47 mm) - usable area 85 x 27 mm	
in plastic frame	1231013SB
framed	1231013SU
External dimensions DIN A7 (105 x 74 mm) - usable area 85 x 54 mm	
in plastic frame	1231003SB
framed	1231003SU
External dimensions 1/2 DIN A6 (148 x 62.5 mm) - usable area 128 x 42.5 mm	
in plastic frame	1231014SB
framed	1231014SU
External dimensions DIN A6 (148 x 105 mm) - usable area 128 x 85 mm	
in plastic frame	1231004SB
framed	1231004SU
External dimensions 1/2 DIN A5 (210 x 94 mm) - usable area 170 x 54 mm	
in plastic frame	1231015SB
framed	1231015SU
External dimensions DIN A5 (210 x 148 mm) - usable area 170 x 108 mm	
in plastic frame	1231005SB
framed	1231005SU
External dimensions 1/2 DIN A4 (297 x 125 mm) - usable area 257 x 85 mm	
in plastic frame	1231016SB
framed	1231016SU
External dimensions DIN A4 (297 x 210 mm) - usable area 257 x 170 mm	
with aluminium frame	1231006SA
in plastic frame	1231006SB
framed	1231006SU
Permanent template custom size	1231007SG

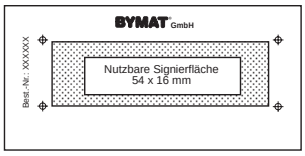
External dimensions 25 x 40 mm

1231001SB	1231001SU
Permanent template in plastic frame *(usable area 40 x 15 mm)*	Framed permanent template *(usable area 40 x 15 mm)*



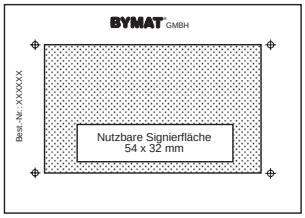
External dimensions 1/2 A 8 (74 x 36 mm)

1231012SB	1231012SU
Permanent template in plastic frame *(usable area 54 x 16 mm)*	**Framed permanent template *(usable area 54 x 16 mm)***



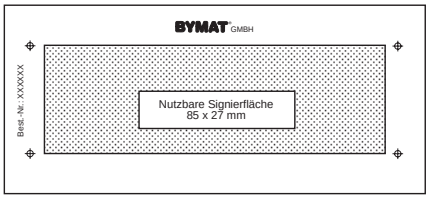
External dimensions DIN A 8 (74 x 52 mm)

1231002SB	1231002SU
Permanent template in plastic frame *(usable area 54 x 32 mm)*	Framed permanent template *(usable area 54 x 32 mm)*



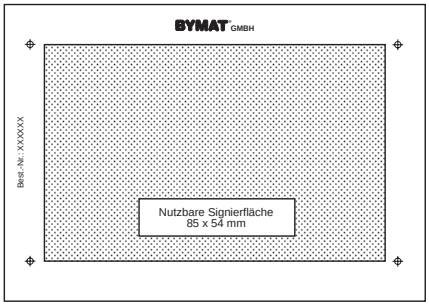
External dimensions 1/2 A 7 (105 x 47 mm)

1231013SB	1231013SU
Permanent template in plastic frame *(usable area 85 x 27 mm)*	Framed permanent template *(usable area 85 x 27 mm)*



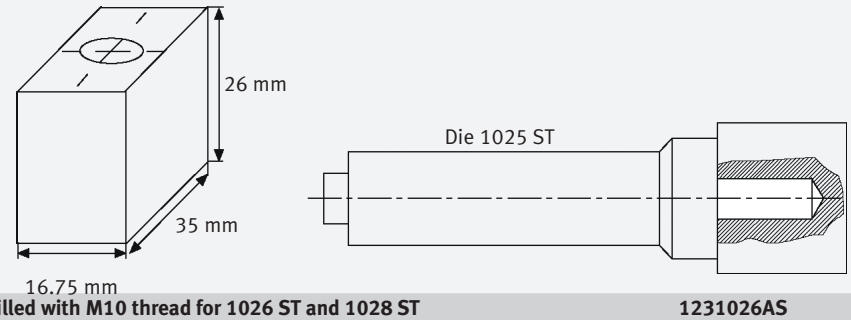
External dimensions DIN A 7 (105 x 74 mm)

1231003SB	1231003SU
Permanent template in plastic frame *(usable area 85 x 54 mm)*	Framed permanent template *(usable area 85 x 54 mm)*

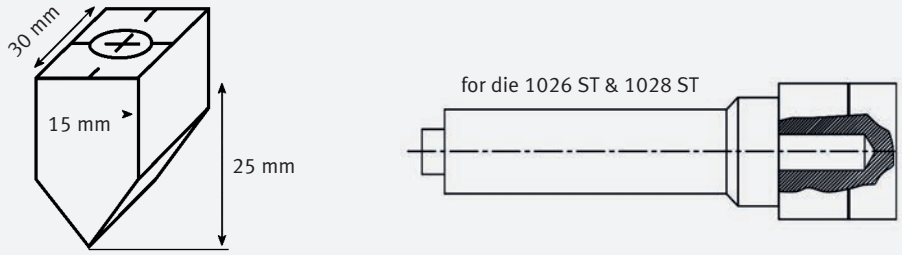


Replacement carbon brushes for cleaning, polishing, signing and galvanising dies

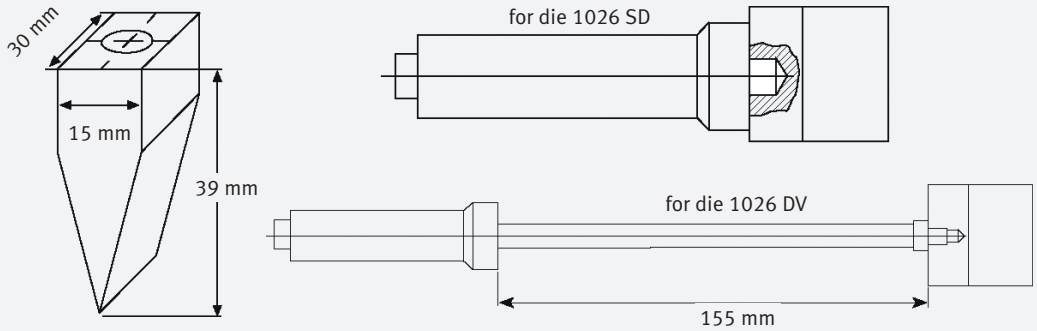
1026 OT replacement carbon brush 90", drilled with M10 thread for die 1025 ST **1231026AG**



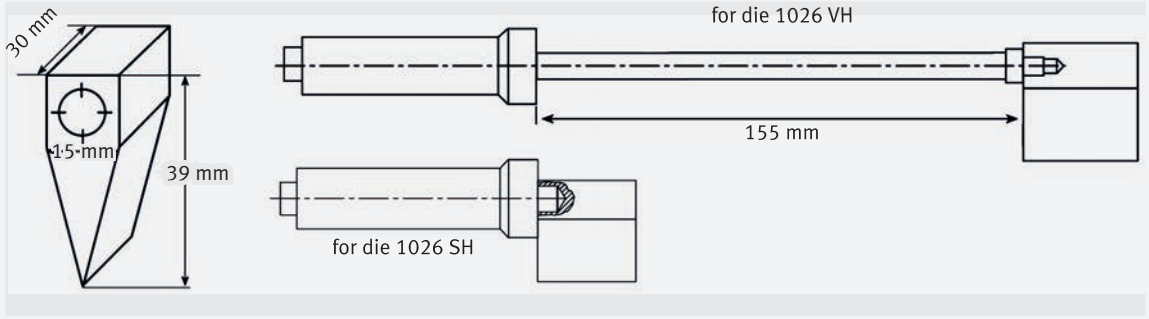
Replacement carbon brush 60°, drilled with M10 thread for 1026 ST and 1028 ST **1231026AS**



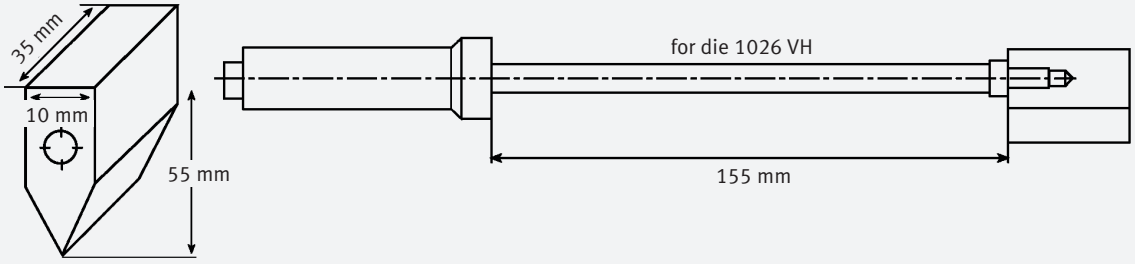
Replacement carbon brush 30", drilled with M10 thread for die 1026 DV and 1026 SD **1231026AD**



Replacement carbon brush 30°, drilled at side with M10 thread for 1026 SH and 1026 VH **1231025AD**



Replacement carbon brush 60°, drilled at side with M6 thread for 1026 VH **1231026AK**



Carbon block for processing 88 x 72 x 52 mm **1231026BB**

