

/ Perfect Welding / Solar Energy / Perfect Charging

Fronius



MIG/MAG WELDING TORCHES

FOR MANUAL WELDING APPLICATIONS

THE RIGHT WELDING TORCH FOR EVERY APPLICATION. PERFECTLY COOLED AND ROBUST.

From difficult to access components to remote job sites, welding torches from Fronius are designed to cover an extremely broad range of applications. Hosepacks up to 15 meters long and torch bodies of different lengths and angles make life easier for every welder, not to mention the remote control in the handle on certain models. Welders can count on the flexibility they need with Fronius – guaranteed.

What's your
Welding Challenge?

Let's get connected.



THE BENEFITS

LONG WEARING PART LIFETIMES



Each wearing part is designed and manufactured to deliver the longest service life and for optimal heat dissipation. For example, a high-quality copper alloy (CuCrZr) is used for the contact tips in order to extend their service life.

LONG SERVICE LIFE



Top-quality components maximize the service life of the welding torch. Outer tubes for the torch body made from stainless steel, high-quality hosepack components, power cables with maximum flexibility and a larger-dimensioned copper cross-section all ensure longer-lasting welding tools.

REPAIRABLE



Despite the long service life of Fronius welding torches, faulty parts can be easily swapped out and repaired. A comprehensive range of roughly 40 replaceable spare parts on water-cooled manual welding torches allows sustainable management of your equipment pool.

FLEXIBLE



The Multilock System leaves you with a wide choice of over 80 different torch bodies of different lengths and angles, affording the welder even greater flexibility. Torch bodies can also be produced to customer-specific requirements at lengths of up to 1.2 m and angles from 0-90°.

TECHNOLOGY & ERGONOMICS

OPERATION

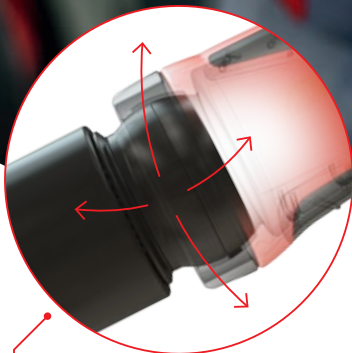
Fronius welding torches represent the perfect symbiotic relationship between technology and ergonomics. The ergonomic handle with anti-slip components lies comfortably and securely in the hand, allowing the torch to be guided with ease. The ball joint and optimal weight distribution prevent fatigue during welding.



PERFECTLY OPTIMIZED
/ Ergonomic handle
/ Balanced

GREATER COMFORT AND CONTROL

/ Thanks to an LED light on the handle, the welding torches can also be used in dark environments.



STRAIN-RELIEVING

/ More flexible, rotatable rubber anti-kink protection with ball joint for better handling.



JOBMASTER

With JobMaster welding torches, the welder can use the **REMOTE CONTROL WITH COLOR DISPLAY INTEGRATED IN THE HANDLE** to get a quick overview of important welding parameters such as welding power, wire speed, and previously stored jobs, and can adjust them to the desired value.



UP/DOWN

The Up/Down function permits **CONTINUOUS REGULATION** of the welding power directly on the welding torch.

WELDING FUME EXTRACTION

Welding fumes can be harmful to health, which is why Fronius believes in extracting the welding fumes directly at the point of origin – the welding torch. Thanks to fume extraction torches, the welder and their wider working environment are effectively protected against harmful emissions.



360° ROTATABLE EXTRACTION DUCT

/ Extraction duct elbow piece may be used as a heat shield



FumeEx EXTRACTION KIT

- / Compatible with every Fronius MIG/MAG welding torch – including the PushPull variants
- / Special geometry of the extraction nozzle for optimal fume capture without affecting the gas shield
- / Up/Down and JobMaster possible
- / Continuously adjustable extraction nozzle
- / LED light function may still be used, depending on the position of the extraction duct



FLEXIBLE, CONTINUOUSLY ADJUSTABLE NOZZLE SETTING

- / Exceptional accessibility: Position of the extraction nozzle can be perfectly adjusted to suit the welding process.
- / The closer the extraction nozzle to the welding position, the more fumes are extracted.



K4 FUME EXTRACTION TORCH

- / Continuously adjustable extraction nozzle (20 mm)
- / All-in-one compact fume extraction torch
- / Gas-cooled or water-cooled variants
- / With Standard, UpDown, or JobMaster operation
- / Just 1.45 kg at one meter's working height
- / Leather protection hose (optional)
- / 360° rotatable protection hose

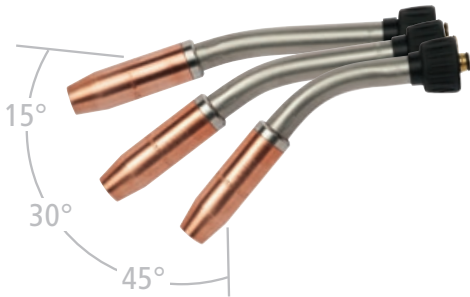
EXCEPTIONAL ACCESSIBILITY

With a range of different torch bodies available, the perfect combination of angle and length can be selected for components with challenging geometries.



**EVERY ANGLE
EVERY LENGTH**

/ Different torch body geometries provide maximum flexibility in the face of challenging components.



**COMPACT TORCH BODY
MTB 330i**



/ This extra-small torch body allows for exceptional accessibility even in the smallest of spaces.
/ Gas-cooled or water-cooled versions available.

**FLEX NECK
FLEXIBLE TORCH BODIES**

/ The angle of the torch body can be easily set by hand.
/ Gas-cooled torch bodies can be bent up to 1000 times; water-cooled versions up to 600 times.



/ With more than 70 gas nozzles, the right geometry is available for every welding application.



**PATENTED INTERFACE
MULTILOCK**



360°
/ The torch body can be turned through 360° to permit the greatest possible welding flexibility on components with challenging geometries.

0°
/ The 0° position is fixed by an anti-twist device.

INTEGRATED WATER STOP
/ Prevents water from escaping when the torch body is removed.



SYSTEM DESIGN

THE WELDING TORCH IN DETAIL

The MIG/MAG welding torches deliver the best outcomes in gas-cooled and water-cooled applications. Wearing parts and torch components are perfectly matched to the welding power. The cooling system has been optimized, the handling has been simplified, and comfort has been improved, resulting in maximum precision and maximum service lives.



WATER COOLING

/ On water-cooled systems the cooling system has been brought forward and outward as far as possible. The shape of the contact tip means that less radiant heat is now absorbed. This alone brings a **TEMPERATURE REDUCTION OF UP TO 70 °C FOR THE WEARING PARTS.**

PATENTED INTERFACE

MULTILOCK

- / Quick and easy torch body changes
- / Torch body can be turned through 360°
- / Over 80 different torch bodies

INNER LINERS

/ The right inner liner for every material



- 1 Universal inner liners (gas-cooled and water-cooled)
- 2 Steel inner liners (gas-cooled and water-cooled)
- 3 CrNi inner liners (gas-cooled and water-cooled)
- 4 Combination liners for aluminum water-cooled
- 5 Combination liners for aluminum (gas-cooled) and for CuSi (gas-cooled and water-cooled)

CONTACT TIP VARIANTS

/ The right contact tip for all applications and wire diameters





/ JobMaster

USER INTERFACE

STANDARD / UP/DOWN / JOBMAS^{TER}

/ Modular torch configuration, open for future variants

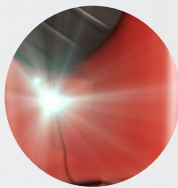


/ Up/Down



BALL JOINT

LED-LIGHTING

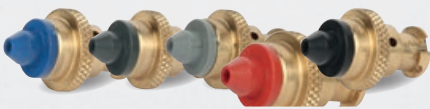


FSC

- / The Fronius System Connector is a central connection point for all media
- / Simple and secure connection of the hosepack to the wirefeeder in **UNDER 10 SECONDS** – without any tools

INNER LINER CLAMPING PIECE

- / With seal for gas-saving **OF APPROX. 4%**
- / The wire diameter is indicated by the colors



/ Optional: EURO central connection for welding systems from other manufacturers or F/F++ for TPS power sources



OVERVIEW

MIG/MAG WELDING TORCHES



MIG/MAG manual welding torches
Gas-cooled or water-cooled

Gas-cooled / MTG	
MTG 250i	250 A 40% D.C.
MTG 320i	320 A 40% D.C.
MTG 400i	400 A 40% D.C.
MTG 550i	550 A 30% D.C.

Water-cooled / MTW	
MTW 250i	250 A 100% D.C.
MTW 400i	400 A 100% D.C.
MHP 500i	500 A 100% D.C.
MTW 700i	700 A 100% D.C.

All technical data apply for both CO₂ (C1 EN 439) and for mixed gas (M21 EN 439). This product meets the requirements set out in standard IEC 60974-7/- 10 Cl. A

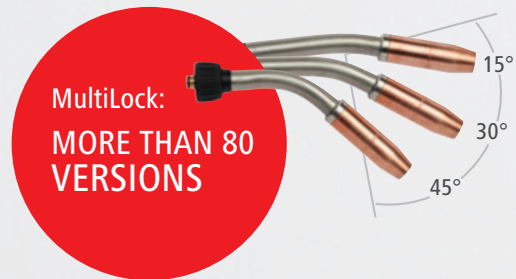
MultiLock welding torches

The MultiLock welding torches can be fitted with different torch bodies and are available as gas-cooled or water-cooled versions. Different angles and lengths ensure maximum flexibility.



Gas-cooled / MultiLock	
MHP 250i G ML	250 A 40% D.C.
MHP 400i G ML	400 A 40% D.C.
MHP 550i G ML	550 A 30% D.C.

Water-cooled / MultiLock	
MHP 500i W ML	500 A 100% D.C.
MHP 700i W ML	700 A 100% D.C.



Gas-cooled / TORCH BODY	
MTB 200i G flex	200 A 40% D.C.
MTB 250i G	250 A 40% D.C.
MTB 320i G	320 A 40% D.C.
MTB 330i G	330 A 40% D.C.
MTB 360i G flex	360 A 40% D.C.
MTB 400i G	400 A 40% D.C.
MTB 550i G	550 A 30% D.C.

Water-cooled / TORCH BODY	
MTB 250i W	250 A 100% D.C.
MTB 330i W	330 A 100% D.C.
MTB 330i W flex	330 A 100% D.C.
MTB 400i W	400 A 100% D.C.
MTB 400i W flex	400 A 100% D.C.
MTB 500i W	500 A 100% D.C.
MTB 700i W	700 A 100% D.C.



PushPull

WELDING TORCHES

PULL UNIT
/ Motor in torch handle



Precise.
Powerful.
AND JUST 1.6 KG.



PullMig

At a working height of 1 meter, the PullMig welding torch weighs just 1.6 kg and is therefore 30% lighter than comparable models. Its compact design means there is barely any size difference to conventional welding torches. The PullMig is a favorite for aluminum applications and where long hosepacks is required (up to 15 m) – situations in which a reliable and precise wirefeed is essential.



Gas-cooled PullMig

MHP 280i PullMig G
280 A 40% D.C.



Water-cooled PullMig

MHP 320i PullMig W
320 A 100% D.C.



Gas-cooled PullMig CMT

MHP 280i G PM CMT
180 A 40% D.C. (CMT process)
280 A 40% D.C. (Standard process)



Water-cooled PullMig CMT

MHP 400i W PM CMT
280 A 100% D.C. (CMT process)
400 A 100% D.C. (Standard process)

PullMig CMT

This welding torch was specially developed for the CMT welding process. The highly dynamic drive motor enables the high process stability of CMT.



USER INTERFACE
/ Standard, Up/Down, or JobMaster



Gas-cooled MTG US-Style

MTG 320i US-Style Ergo Handle
320 A 40% D.C.

MTG 400i US-Style Ergo Handle
400 A 40% D.C.

MTG 320i US-Style Straight Handle
320 A 40% D.C.

MTG 400i US-Style Straight Handle
400 A 40% D.C.



/ Ergo Handle



/ Straight Handle



K4 fume extraction torch

MTG 400i K4 400 A 40% D.C.
MTW 500i K4 500 A 100% D.C.



POWERPIN

adapter suitable for:
Euro, Lincoln, Miller,
Hobart



OPTIONS AND ACCESSORIES



/ PISTOL GRIP

The pistol grip can be easily retrofitted.



/ TOP TORCH TRIGGER

The welding process can be conveniently started and stopped from above.



/ OPERATION WITH POTENTIOMETER

The power can be set using the control dial.



/ TORCH TRIGGER EXTENSION

The button extension allows a more flexible grip posture.



/ HEAT SHIELD

Rotatable heat shield to protect against radiant heat and welding spatter.



/ WEARING PART SETS

Wearing part boxes and original equipment kits containing all the relevant wearing parts are available for every wirespool diameter.

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 4,760 employees worldwide and 1,253 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

Further information about all Fronius products and our global sales partners and representatives can be found at www.fronius.com

Fronius Canada Ltd.
2875 Argentia Road, Units 4,5 & 6
Mississauga, ON L5N 8G6
Canada
Telephone +1 905 288-2100
Fax +1 905 288-2101
sales.canada@fronius.com
www.fronius.ca

Fronius USA LLC
6797 Fronius Drive
Portage, IN 46368
USA
Telephone +1 877 FRONIUS
sales.usa@fronius.com
www.fronius-usa.com

Fronius UK Limited
Maidstone Road, Kingston
Milton Keynes, MK10 0BD
United Kingdom
Telephone +44 1908 512 300
Fax +44 1908 512 329
info-uk@fronius.com
www.fronius.co.uk

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
Telephone +43 7242 241-0
Fax +43 7242 241-953940
sales@fronius.com
www.fronius.com