

# MIG/MAG Welding torches

## MT welding torch series



### **MIG/MAG welding torches with EWM quality**

Robust welding torches with compact, ergonomically-shaped grip. With optional remote-control function and segment display.

- Ergonomically well-balanced
- Automated welding torches
- Push/pull welding torch with replaceable neck

# For the perfect result

Gas or water-cooled welding torches are part of our integrated system. Together with other EWM components and EWM's innovative welding processes, they ensure that the full performance capability of the

power sources goes into the welding process. Extreme robustness and durability also reduce costs for consumables and spare parts, whether with manual welding or in mechanisation.

**Innovating to perfection:  
You will obtain optimal welding results with our welding torches.**



Manual welding torches, gas cooled up to 450 A (CO <sub>2</sub> ) and water cooled up to 650 A (CO <sub>2</sub> ):		
1	MT series standard torch*	MT221/301/401G, MT301/451/551W
2	C series replaceable neck*	MT221/301CG, MT301/451CW
3	S series short neck*	MT451/551WS
4	L series long neck*	MT451/551WL
5	Push/pull with replaceable neck (PP)*	PPMT301CG, PPMT301, 451CW
6	F series fume extraction torch	MT221G F, MT301/451W F
7	AMT automated welding torch	AMT301G, AMT451W, 551W

\*Also available as function torch with control system

## Your benefits

### Perfect ergonomics and balance

Elliptical grips reduce the effort needed to guide the torch. This lightweight, perfectly-balanced and compact model with no-interfering anti-kink device ensures fatigue-free working.

### Lightweight, eco-friendly design

The EWM function torches in the X series do not require a control cable. This not only saves on weight, but also conserves resources.

# EWM X technology

No additional control cable in the hose package necessary

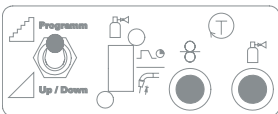
- Light, flexible hose package
- Safe and robust



**Up/down**

### Setting options

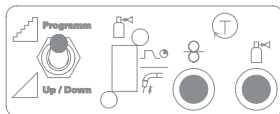
- Welding current and wire feed speed
- Program



**2 Up/down**

### Setting options

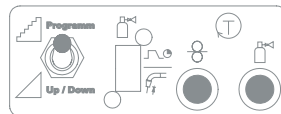
- Welding current and wire feed speed
- Welding voltage
- Program



**PC 1**

### Setting options

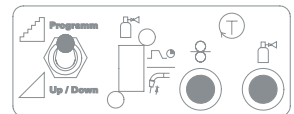
- Welding current and wire feed speed
- Program



**PC 2**

### Setting options

- Welding current and wire feed speed
- Welding voltage
- Program
- JOB



## High service life for EWM contact tips

- No overheating: optimal heat transfer due to 30% larger material cross-section and conical fitting of the contact tip in M7/M9 compared with conventional thread sizes M6/M8
- High power reserves mean less wear
- Long contacting surface for better flow transfer and increased arc stability



- Long contacting surface
- 30% larger cross-section
- Centring of the contact tip/conical fitting
- Bore for housing the liner

**EWM**



**Standard**



## Increase revenue – reduce costs

### For reduced costs and higher revenues

With the MT welding torches, you will save on shielding gas, consumables and valuable working time. Produce flawless weld seams with minimal spatter formation or finishing work.

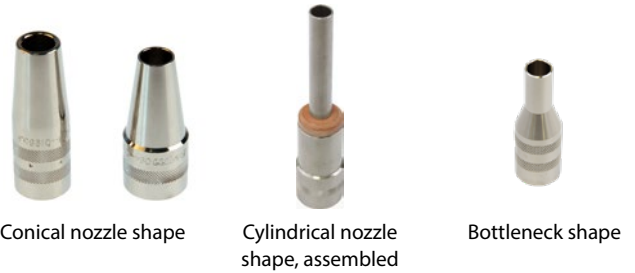


Increased revenues ✓

Reduced costs ✓

### Nozzles for every requirement

For narrow gap welding, gas nozzles in conical, cylindrical and bottleneck shapes are available.



## Technical data

### MT welding torch series



Type	MT221G	MT301G	MT401G	MT301W	MT451W/WS/WL	MT551W/WS/WL
Operating variants	Standard or function torch			Standard or function torch		
Replaceable torch neck "C"	MT221CG	MT301CG	-	MT301CW	MT451CW	-
Fume extraction torch "F"	MT221G F	-	-	MT301W F	MT451W F	-
Automated welding torch "A"	-	AMT 301G	-	-	AMT451W	AMT551W
Cooling	Gas cooled "G"	Gas cooled "G"	Gas cooled "G"	Water cooled "W"	Water cooled "W"	Water cooled "W"
Welding current CO <sub>2</sub>	250 A at 60% DC	330 A at 60% DC	450 A at 35% DC	330 A at 100% DC	500 A at 100% DC	650 A at 100% DC
Welding current M21	220 A at 60% DC	300 A at 60% DC	400 A at 35% DC	290 A at 100% DC	450 A at 100% DC	550 A at 100% DC
Pulse welding current M21	150 A at 60% DC	210 A at 60% DC	260 A at 35% DC	250 A at 100% DC	350 A at 100% DC	500 A at 100% DC
Shielding gas	Argon, mixed gas M21 or CO <sub>2</sub> conforming to DIN EN ISO 14175			Argon, mixed gas M21 or CO <sub>2</sub> conforming to DIN EN ISO 14175		
Wire diameter	0.8 to 1.2 mm	0.8 to 1.6 mm	0.8 to 2.0 mm	0.8 to 1.2 mm	0.8 to 1.6 mm	0.8 to 2 mm
Gas flow	10 to 20 l/min	10 to 20 l/min	10 to 20 l/min	10 to 25 l/min	10 to 25 l/min	10 to 25 l/min
Hose package length	3 m/4 m/5 m	1.5 m/3 m/4 m/5 m	3 m/4 m/5 m	3 m/4 m/5 m	1.5 m/3 m/4 m/5 m	1.5 m/3 m/4 m/5 m
Connection	Euro torch connector			Euro torch connector		
Torch data in accordance with	IEC 60974-7	IEC 60974-7	IEC 60974-7	IEC 60974-7	IEC 60974-7	IEC 60974-7

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