

MIG/MAG Professional welding torches

PM welding torch series

Professional welding torches with EWM quality

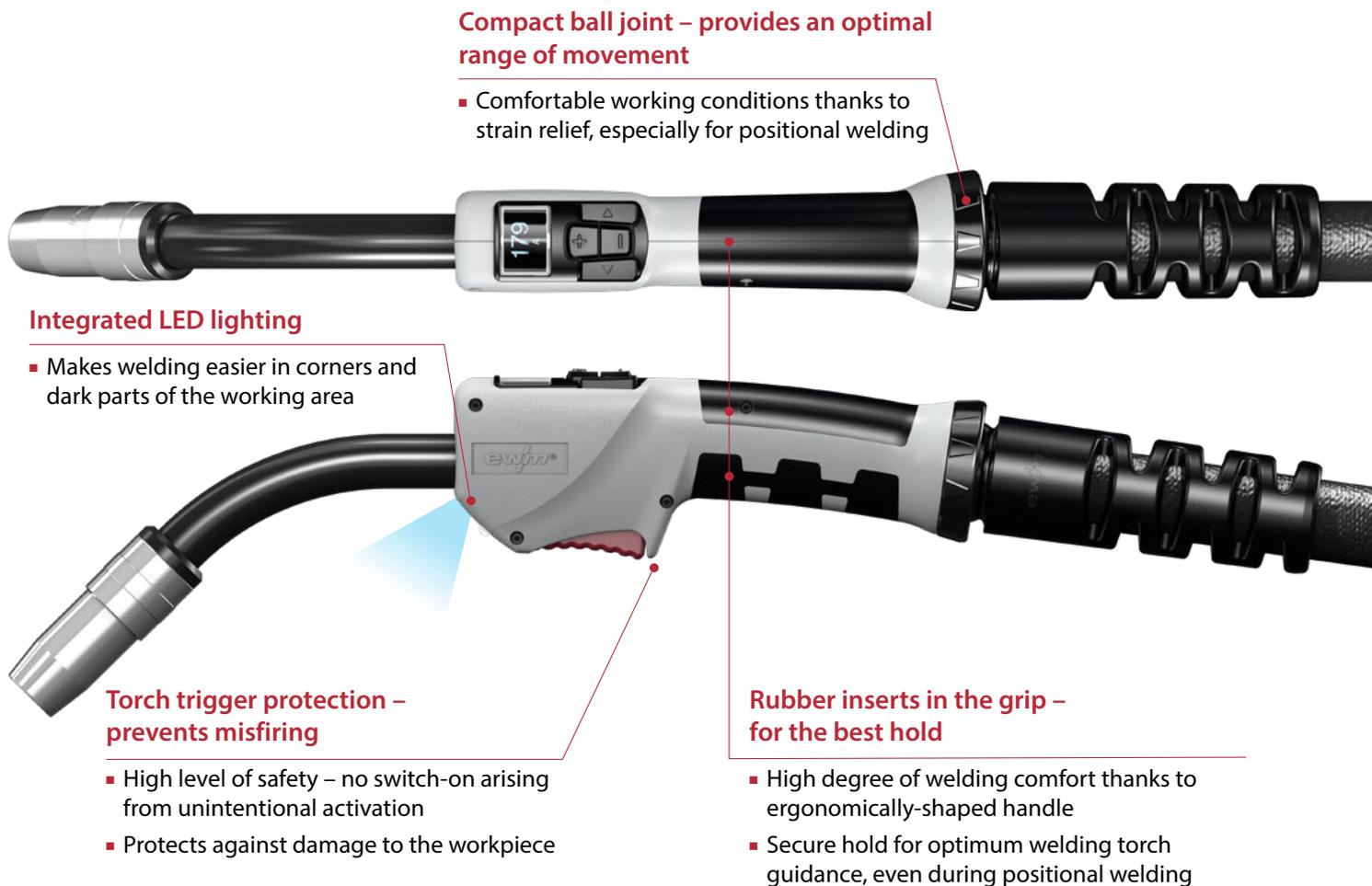
Professional welding torch, with optional graphic display and LED lighting. Guaranteed EWM quality and ergonomic perfection.

- Best welding quality
- Increased service life of consumables
- Reduction of production costs

Professional welding torches from the PM series

The grips on the new PM welding torches are ergonomically optimised with rubber inserts in such a way that they can be held comfortably and flexibly guided during welding. This is a particular advantage during positional welding, making work easier. The balanced design of the grips, the reduced weight of the welding torch and the innovative, compact design of the hose package with anti-kink device also help

reduce welder fatigue. It keeps the amount of force required to guide the welding torch to a minimum. The practical control buttons and graphic display on the PM welding torch also increase efficiency. They can be used to set many functions of the welding machine directly onto the workpiece.



Your benefits

Reduce manufacturing costs

- Measurably less use of consumables such as the contact tip and gas nozzle
- Significantly less spatter means less finishing work, due to the precise gas flow
- Less use of shielding gas due to prevention of gas loss

Increased welding quality

- Error-minimisation through interference-free wire guide – 40% larger bend radius of welding torch necks (from PM 301)
- Best heat dissipation in welding torch body and subsequently low warming of consumables
- Outstanding shielding gas coverage of the arc range
- Secure contact through screw-on contact tip and gas nozzle

Four operating variants – a good choice guaranteed



RD3 X control*



Integrated LED light

Display and setting options

- Welding current and wire feed speed
- Voltage correction
- Program and JOB selection
- Welding process switching
- Interferences and error messages

Xnet support

- Selection of welding tasks
- Component management



RD2 X control*



Integrated LED light

Display and setting options

- Welding current and wire feed speed
- Voltage correction
- Program and JOB selection



2U/D X control*



Integrated LED light

Setting options

- Welding current and wire feed speed
- Voltage correction
- Program and JOB selection

2U/D control cable possible



Standard torch



Optional LED light



Option for torch trigger on top possible

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



EWM



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

Standard



Increase revenue – reduce costs

For reduced costs and higher revenues

With the PM 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 ✓

*without control cable

Nozzles for every requirement

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



Technical data

PM welding torch series



Type	PM 221 G	PM 301 G	PM 401 G	PM 301 W	PM 451 W/WS/WL	PM 551 W/WS/WL
Operating variants	Standard or function torch			Standard or function torch		
Replaceable torch neck "C"	PM 221 CG	PM 301 CG	-	PM 301 CW	PM 451 CW	-
Cooling	Gas cooled "G"	Gas cooled "G"	Gas cooled "G"	Water cooled "W"	Water cooled "W"	Water cooled "W"
Welding current CO ₂	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 ₂ conforming to DIN EN ISO 14175			Argon, mixed gas M21 or CO ₂ 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	3 m/4 m/5 m	3 m/4 m/5 m	3 m/4 m/5 m	3 m/4 m/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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