2 - MIG/MAG welding

*For: clamps, connectors, cables, hammers, miscellaneous, ceramic backings, see chapter "**Other arc welding**"*

Simplify your life

EN 60974-7

The 3 main considerations when choosing a MIG/MAG torch are:

- **Reliability:** WELDLINE WMT torches have been designed to meet the rigorous demands of today's welding environment, giving quality and reliability.
- **Standardisation of the wear parts:** WELDLINE WMT torches are compatible with the most common wear parts available in Europe.
- **Flexibility:** WELDLINE WMT torches are equipped with a very flexible coaxial cable and a knuckle joint which reduces the strain on the operative

2006-521x

Air cooled torches:

Name	Duty cycle at 60%	General use	Max wire Ø (mm)
WMT 15A	180 A	Thin plates, automotive industry	1.0
WMT 25A	230 A	Thin plates, light fabrication	1.2
WMT 36A	340 A	Vessel manufacture, steel structures	1.6

Water cooled torches:

Name	Duty cycle at 100%	General use	Max wire Ø (mm)
WMT 500W	500 A	Heavy duty, high production	2.4

MIG/MAG welding torches

WELDLINE

WMT 15A

EN 60974-7

Applications:

Car body, limited access welding, etc.

Advantages for clients:

➤ ***Easy manoeuvrability (ball joint articulation)***

➤ ***European standard connections***

Technical specifications:

Cooling: Air

60% duty cycle:

- 180 A with C1 (EN 439): CO_2
- 150 A with M21 (EN 439): Ar + CO_2

Voltage class: L-113 V

Usable wires:

- 0.6 to 1.0-mm diameter steel wire

Gas flow rate: 10 to 18 l/min

Original equipment:

- *Contact tube for 0.8-mm steel wire,*
- *12.5-mm conical nozzle,*
- *wear conduit for 0.6 to 0.8-mm steel wire.*

Ordering information:

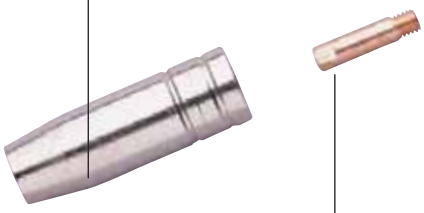
WMT 15A 3m: Cat. N° **W 000 010 600**

WMT 15A 4m: Cat. N° **W 000 010 601**

Main wear parts:

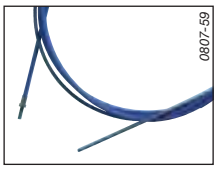
➤ ***Wear parts compatible with the most common standard in Europe.***

Cat. N°	Description
W 000 010 786	Conical nozzle 12.5 dia. WMT 15A
W 000 010 787	Conical nozzle 10.0 dia. WMT 15A
W 000 010 788	Cylindrical nozzle 16.0 dia. WMT 15A



Cat. N°	Description
W 000 010 789	Spring

Cat. N°	Description
W 000 010 820	Contact tube M6x25 0.6 Cu WMT 15A
W 000 010 821	Contact tube M6x25 0.8 Cu WMT 15A
W 000 010 822	Contact tube M6x25 1.0 Cu WMT 15A
W 000 010 823	Contact tube M6x25 0.6 CuCrZr WMT 15A
W 000 010 824	Contact tube M6x25 0.8 CuCrZr WMT 15A
W 000 010 825	Contact tube M6x25 1.0 CuCrZr WMT 15A



Cat. N°	Description
W 000 010 730	Wear conduit, steel spirals 0.6-0.8 3M
W 000 010 731	Wear conduit, steel spirals 0.6-0.8 4M
W 000 010 733	Wear conduit, steel spirals 1.0-1.2 3M
W 000 010 734	Wear conduit, steel spirals 1.0-1.2 4M

WELDLINE

WMT 25A

EN 60974-7

Applications:

Blacksmith work, thin steel and fabrication, etc.

Advantages for clients:

➤ ***Easy manoeuvrability (ball joint articulation)***

➤ ***European standard connections***

Ordering information:

WMT 25A 3m: Cat. N° **W 000 010 602**

WMT 25A 4m: Cat. N° **W 000 010 603**

WMT 25A 5m: Cat. N° **W 000 010 604**

Technical specifications:

Cooling: Air

60% duty cycle:

- 230 A with C1 (EN 439): CO_2,
- 200 A with M21 (EN 439): Ar + CO_2

Voltage class: L-113 V

Usable wires:

- 0.8 to 1.2-mm diameter steel wire
- 1.0 to 1.2-mm diameter aluminium wire

Gas flow rate: 10 to 18 l/min

Original equipment:

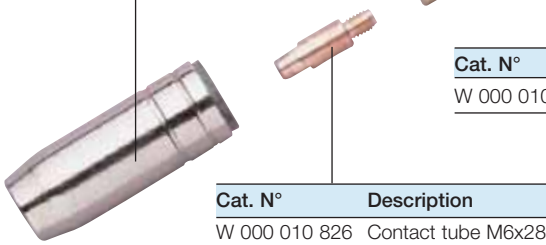
- *Contact tube for 1.0-mm steel wire,*
- *14.0-mm conical nozzle,*
- *wear conduit for 1.0 to 1.2-mm steel wire.*

Main wear parts:

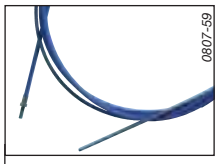
➤ ***Wear parts compatible with the most common standard in Europe.***

Cat. N°	Description
W 000 010 720	Contact tube support M6x35

Cat. N°	Description
W 000 010 790	Conical nozzle 14.0 dia. WMT 25A
W 000 010 791	Conical nozzle 12.0 dia. WMT 25A
W 000 010 792	Cylindrical nozzle 17.0 dia. WMT 25A



Cat. N°	Description
W 000 010 793	Spring



Cat. N°	Description
W 000 010 826	Contact tube M6x28 0.8 Cu
W 000 010 827	Contact tube M6x28 1.0 Cu
W 000 010 828	Contact tube M6x28 1.2 Cu
W 000 010 830	Contact tube M6x28 0.8 CuCrZr
W 000 010 831	Contact tube M6x28 1.0 CuCrZr
W 000 010 832	Contact tube M6x28 1.2 CuCrZr
W 000 010 850	Contact tube M6x28 1.0 Al wire
W 000 010 851	Contact tube M6x28 1.2 Al wire

Cat. N°	Description
W 000 010 730	Wear conduit, steel spirals 0.6-0.8 3M
W 000 010 731	Wear conduit, steel spirals 0.6-0.8 4M
W 000 010 732	Wear conduit, steel spirals 0.6-0.8 5M
W 000 010 733	Wear conduit, steel spirals 1.0-1.2 3M
W 000 010 734	Wear conduit, steel spirals 1.0-1.2 4M
W 000 010 735	Wear conduit, steel spirals 1.0-1.2 5M
W 000 010 736	Wear conduit, Teflon 1.0-1.2 3M
W 000 010 737	Wear conduit, Teflon 1.0-1.2 4M
W 000 010 738	Wear conduit, Teflon 1.0-1.2 5M

MIG/MAG welding torches

WELDLINE

WMT 36A

EN 60974-7

Applications:

Pressure vessels, mechanical welding, structural steel work, etc.

Advantages for clients:

➤ ***Easy manoeuvrability (ball joint articulation)***

➤ ***European standard connections***

Ordering information:

WMT 36A 3m: Cat. N° **W 000 010 605**

WMT 36A 4m: Cat. N° **W 000 010 606**

WMT 36A 5m: Cat. N° **W 000 010 607**

Technical specifications:

Cooling: Air

60% duty cycle:
- 360 A with C1 (EN 439): CO_2,
- 330 A with M21 (EN 439): Ar + CO_2

Voltage class: L-113 V

Usable wires:
- 0.8 to 1.6-mm diameter steel wire
- 1.0 to 1.6-mm diameter aluminium wire

Gas flow rate: 10 to 18 l/min

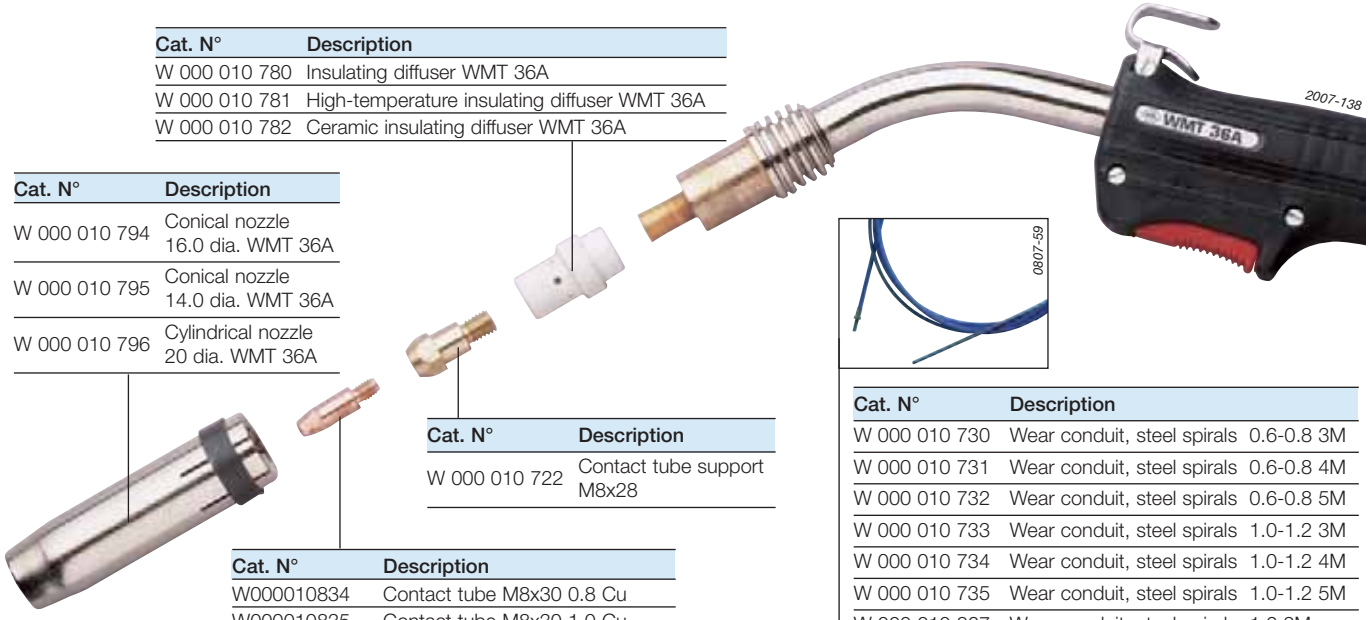
Original equipment
- *Contact tube for 1.2-mm steel wire,*
- *16.0-mm dia. conical nozzle,*
- *wear conduit for 1.0 to 1.2-mm steel wire.*

Main wear parts:

➤ ***Wear parts compatible with the most common standard in Europe.***

Cat. N°	Description
W 000 010 780	Insulating diffuser WMT 36A
W 000 010 781	High-temperature insulating diffuser WMT 36A
W 000 010 782	Ceramic insulating diffuser WMT 36A

Cat. N°	Description
W 000 010 794	Conical nozzle 16.0 dia. WMT 36A
W 000 010 795	Conical nozzle 14.0 dia. WMT 36A
W 000 010 796	Cylindrical nozzle 20 dia. WMT 36A



Cat. N°	Description
W 000 010 722	Contact tube support M8x28

Cat. N°	Description
W000010834	Contact tube M8x30 0.8 Cu
W000010835	Contact tube M8x30 1.0 Cu
W000010836	Contact tube M8x30 1.2 Cu
W000010837	Contact tube M8x30 1.6 Cu
W000010840	Contact tube M8x30 0.8 CuCrZr
W000010841	Contact tube M8x30 1.0 CuCrZr
W000010842	Contact tube M8x30 1.2 CuCrZr
W000010843	Contact tube M8x30 1.6 CuCrZr
W000010853	Contact tube M8x30 1.0 Al wire
W000010854	Contact tube M8x30 1.2 Al wire
W000010855	Contact tube M8x30 1.6 Al wire

Cat. N°	Description
W 000 010 730	Wear conduit, steel spirals 0.6-0.8 3M
W 000 010 731	Wear conduit, steel spirals 0.6-0.8 4M
W 000 010 732	Wear conduit, steel spirals 0.6-0.8 5M
W 000 010 733	Wear conduit, steel spirals 1.0-1.2 3M
W 000 010 734	Wear conduit, steel spirals 1.0-1.2 4M
W 000 010 735	Wear conduit, steel spirals 1.0-1.2 5M
W 000 010 867	Wear conduit, steel spirals 1.6 3M
W 000 010 868	Wear conduit, steel spirals 1.6 4M
W 000 010 869	Wear conduit, steel spirals 1.6 5M
W 000 010 736	Wear conduit, Teflon 1.0-1.2 3M
W 000 010 737	Wear conduit, Teflon 1.0-1.2 4M
W 000 010 738	Wear conduit, Teflon 1.0-1.2 5M
W 000 010 745	Wear conduit, Teflon 1.6 3M
W 000 010 746	Wear conduit, Teflon 1.6 4M
W 000 010 747	Wear conduit, Teflon 1.6 5M

WMT 500W

EN 60974-7

Applications:

Pressure vessels, structural steel work, heavy duty applications, etc.

Advantages for clients:

➤ ***Easy manoeuvrability (ball joint articulation)***

➤ ***European standard connections***

Ordering information:

WMT 500W 3m: Cat. N° **W 000 010 608**

WMT 500W 4m: Cat. N° **W 000 010 609**

WMT 500W 5m: Cat. N° **W 000 010 610**

Technical specifications:

Cooling: Water

100% duty cycle:

- 500 A with C1 (EN 439): CO_2,
- 450 A with M21 (EN 439): Ar + CO_2

Voltage class: L-113 V

Usable wires:

- 0.8 to 2.4-mm diameter steel wire
- 1.0 to 2.4-mm diameter aluminium wire

Gas flow rate: 10 to 25 l/min

Original equipment:

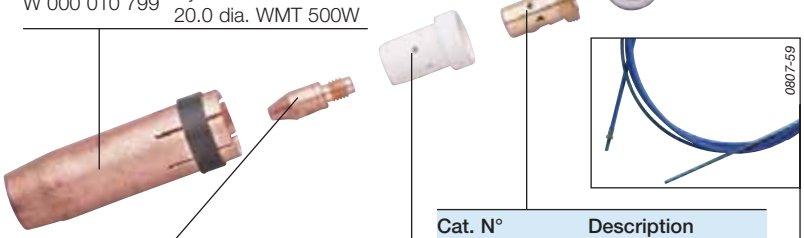
- *Contact tube for 1.2-mm steel wire,*
- *16.5-mm conical nozzle,*
- *wear conduit for 1.0 to 1.2-mm steel wire.*

Main wear parts:

➤ ***Wear parts compatible with the most common standard in Europe.***

Cat. N°	Description
W 000 010 797	Conical nozzle 16.5 dia. WMT 500W
W 000 010 798	Conical nozzle 14.5 dia. WMT 500W
W 000 010 799	Cylindrical nozzle 20.0 dia. WMT 500W

Cat. N°	Description
W 000 010 748	Insulating washer



Cat. N°	Description
W 000 010 724	CT* support M8x25

Cat. N°	Description
W 000 010 783	Insulating diffuseur WMT 500W
W 000 010 784	High-temperature insulating diffuser WMT 500W
W 000 010 785	Ceramic insulating diffuser WMT 500W

Cat. N°	Description
W 000 010 834	CT* M8x30 0.8 Cu
W 000 010 835	CT* M8x30 1.0 Cu
W 000 010 836	CT* M8x30 1.2 Cu
W 000 010 837	CT* M8x30 1.6 Cu
W 000 010 838	CT* M8x30 2.0 Cu
W 000 010 839	CT* M8x30 2.4 Cu
W 000 010 840	CT* M8x30 0;8 CuCrZr
W 000 010 841	CT* M8x30 1.0 CuCrZr
W 000 010 842	CT* M8x30 1.2 CuCrZr

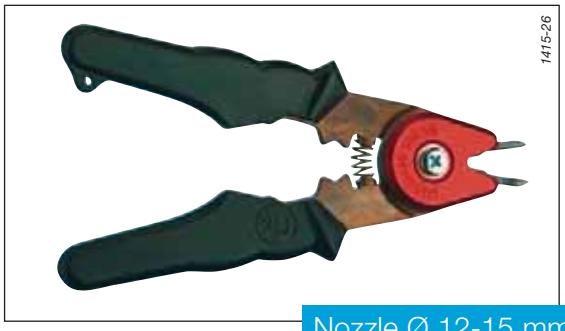
Cat. N°	Description
W 000 010 843	CT* M8x30 1.6 CuCrZr
W 000 010 844	CT* M8x30 2.0 CuCrZr
W 000 010 845	CT* M8x30 2.4 CuCrZr
W 000 010 853	CT* M8x30 1.0 Al wire
W 000 010 854	CT* M8x30 1.2 Al wire
W 000 010 855	CT* M8x30 1.6 Al wire
W 000 010 856	CT* M8x30 2.0 Al wire
W 000 010 857	CT* M8x30 2.4 Al wire

**CT: Contact Tube*

Cat. N°	Description
W 000 010 730	WC* steel spirals 0.6-0.8 3M
W 000 010 731	WC* steel spirals 0.6-0.8 4M
W 000 010 732	WC* steel spirals 0.6-0.8 5M
W 000 010 733	WC* steel spirals 1.0-1.2 3M
W 000 010 734	WC* steel spirals 1.0-1.2 4M
W 000 010 735	WC* steel spirals 1.0-1.2 5M
W 000 010 739	WC* steel spirals 1.6 3M WMT water
W 000 010 740	WC* steel spirals 1.6 4M WMT water
W 000 010 741	WC* steel spirals 1.6 5M WMT water
W 000 010 742	WC* steel spirals 2.0-2.4 3M WMT water
W 000 010 743	WC* steel spirals 2.0-2.4 4M WMT water
W 000 010 744	WC* steel spirals 2.0-2.4 5M WMT water
W 000 010 736	WC* Teflon 1.0-1.2 3M
W 000 010 737	WC* Teflon 1.0-1.2 4M
W 000 010 738	WC* Teflon 1.0-1.2 5M
W 000 010 745	WC* Teflon 1.6 3M
W 000 010 746	WC* Teflon 1.6 4M
W 000 010 747	WC* Teflon 1.6 5M
W 000 010 817	WC* Teflon 2.0-2.4 3M
W 000 010 818	WC* Teflon 2.0-2.4 4M
W 000 010 819	WC* Teflon 2.0-2.4 5M

**WC: Wear Conduit*

MIG pliers (original FIX®)



Useful to:
- Cut the wire
- Clean the nozzles
- Unscrew the tips
- Unscrew the nozzles

Nozzle Ø 12-15 mm
Cat N°: W 000 010 453

Nozzle Ø 15-18 mm
Cat N°: W 000 010 454

MIG torch stand

Cat N°: W 000 010 802

Simple stand with magnetic base to keep your work place clean.

FLOWELD

- Designed to measure gas flow at the front of MIG/MAG torch
- Maximum flowrate: 20 l/min (Ar, CO_2 or mixed gas)
- Accuracy +- 10%
- Unbreakable

Cat N°: W 000 335 159

CAUTION: before use, carefully read and understand the safety datasheet www.safety-welding.com

SPRAYMIG H_2O

Anti-spatter spray and liquid

- **Water based and odourless**
- **No influence on porosity and cold cracks**
- **No influence of the content of diffusible hydrogen in the weld metal**
- **Solvent and silicone free**
- **Biodegradable**
- **Allows parts to be lacquered**
- **Easily washed off parts**

Spray *(400 ml)*

Cat N°: W 000 010 001

Drum *(20 liters)*

Cat N°: W 000 011 074

2007-394

Description:

- SPRAYMIG H_2O silicone-free water-based anti-spatter based on highly efficient water soluble substances.
- It prevents spatter from sticking to nozzles, tips, and work pieces robots and extends nozzle life considerably.
- It permits rapid changing and cleaning of the nozzles.
- Painting, galvanizing, lacquering of parts is possible.
- A preliminary test is recommended.
- Very low consumption for a high effectiveness.

Physical and chemical properties

- Aspect: liquid uncoloured clear.
- Density at 20 °C: 1.00.
- Pure pH: 7.
- Volume: - spray: 400 ml (net) - 520 ml (nominal),
  - drum: 20 liters.
- Propellant gas: dimethylether.
- Base: water - based emulsion of organic substances.

SPRAYMIG SIB

Anti-spatter spray

- **Silicone based**
- **Not for use on any parts that are to be painted**
- **Use on cold parts**
- **Use on nozzles only and outside contact tip**

Technical data:

- SPRAYMIG SIB is a preventive maintenance product for MIG/MAG torches.
- To be used on cold parts only, do not use on threads or inside contact tips (as the product is electrically insulating).
- Volume: 400 ml (net) - 520 ml (nominal).
- Propellant gas: aliphatic hydrocarbons
- Base: silicone and isoparaffinic solvent.

Cat N°: W 000 011 093

2007-394

2007-394

Cat N°: W 000 011 092

SPRAYMIG SVB

Anti-spatter spray

- **Silicone free**
- **Compatible with paint**
- **Use on cold parts**
- **Use on nozzles only and outside contact tip**

Technical data:

- SPRAYMIG SVB is an anti-spatter silicone free spray for welding applications.
- Volume: 400 ml (net) - 520 ml (nominal).
- Propellant gas: aliphatic hydrocarbons
- Base: biodegradable synthetic polymers

SPRAYMIG SVD

Anti-spatter spray

- **Silicone free**
- **Compatible with paint**
- **Use on cold parts**
- **Use on nozzles only and outside contact tip**
- **Dichloromethane solvent.**

Technical data:

- SPRAYMIG SVD is an anti-spatter silicone free spray for welding applications
- Volume: 300 ml (net) – 520 ml (nominal)
- Propellant gas: aliphatic hydrocarbons
- Base: Synthetic oil not siliconic.
- Dichloromethane solvent.

Cat N°: W 000 271 574

2009-250

NETMIG

Anti-spatter dip

- **Protects nozzles and contact tips from spatter by immersion.**
- **Silicone and solvent free.**
- **Odourless.**

Technical data:

- Prevents spatter adhering to:
  - To torch nozzles and contact tips,
  - To positioners and jaws of welding lathes.
- Does not clog threads or apertures.
- Does not cause porosity. Silicone and solvent free. Odourless.
- Base: waxes and oil.
- Volume: 300 gr

Cat N°: W 000 011 071

2009-293

WELDLINE offers the most popular stainless steel and aluminium welding grades for MIG welding, within the tight constraints of the AWS standards.

These competitive-priced wires are supplied without agency approvals.

All wire grades can be supplied with a 3.1 chemical analysis certificate according to EN10204.

MIG wires are precision layer wound for trouble free feedability

Stainless steel MIG wires

BS 300* spools

AWS A5.9	Description	Diam. (mm)	Packaging	Cat N°
ER 308 L Si	WL wire 308 L Si	0.8	15 kg - BS 300	**W 000 283 672**
		1.0	15 kg - BS 300	**W 000 283 144**
		1.2	15 kg - BS 300	**W 000 283 146**
ER 309 L Si	WL wire 309 LSi	0.8	15 kg - BS 300	**W 000 283 674**
		1.0	15 kg - BS 300	**W 000 283 148**
		1.2	15 kg - BS 300	**W 000 283 150**
ER 316 L Si	WL wire 316 LSi	0.8	15 kg - BS 300	**W 000 283 676**
		1.0	15 kg - BS 300	**W 000 283 152**
		1.2	15 kg - BS 300	**W 000 283 154**

Aluminium MIG wires

BS 300* spools

AWS A5.9	Description	Diam. (mm)	Packaging	Cat N°
ER 4043	WL wire ALSi5	1.0	7 kg - BS 300	**W 000 283 683**
		1.2		**W 000 283 684**
		1.6		**W 000 283 685**
ER 5183	WL wire ALMG4.5MN	1.0	7 kg - BS 300	**W 000 283 686**
		1.2		**W 000 283 687**
		1.6		**W 000 283 688**
ER 5356	WL wire ALMG5	1.0	7 kg - BS 300	**W 000 283 689**
		1.2		**W 000 283 690**
		1.6		**W 000 283 691**

** BS 300: metallic spool with hub*