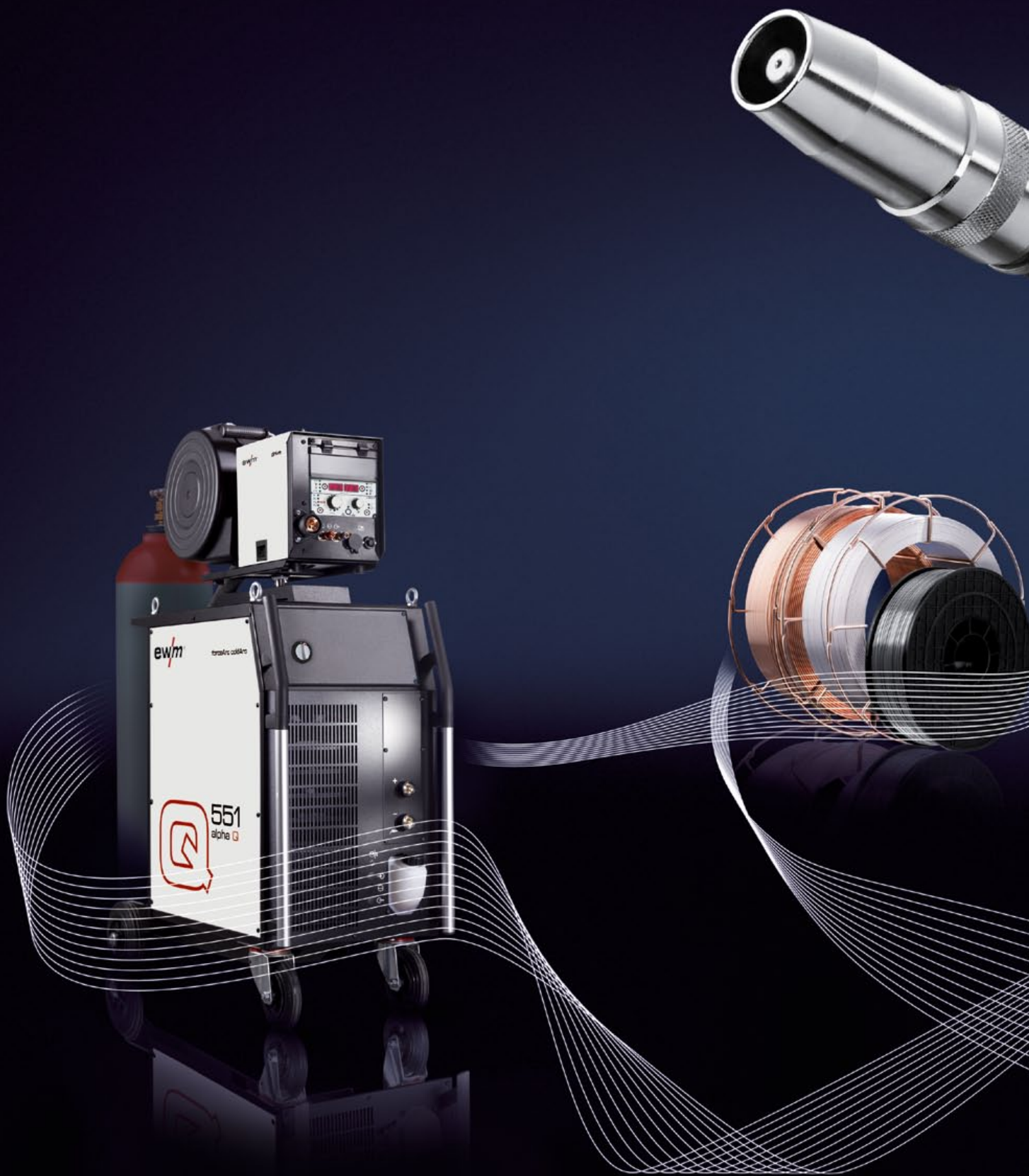





**MIG/MAG WELDING TORCHES
MT-SERIES BY EWM**

gas-cooled | liquid-cooled



SYSTEM. A



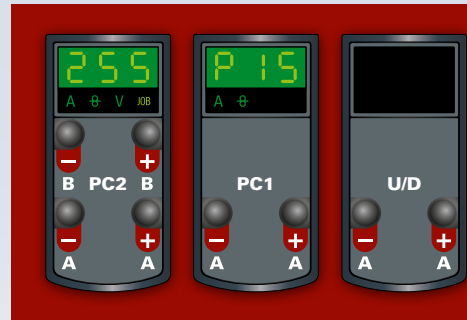
IT TAKES MORE THAN POWER
ALONE TO PERFORM A TASK
OPTIMALLY. IT ALSO HAS TO BE
APPLIED INTELLIGENTLY.

For more than 50 years, we at EWM have studied the question of how to achieve maximum quality, ultimate economic efficiency and the widest possible range of applications for our arc-welding customers.

We consequently research, analyse and optimise the welding process right down to the molecular level, develop innovative welding applications and constantly apply our know-how to the production of high-tech welding power sources with the most modern inverter and processor technology.

However, the best welding results demand more than focusing only on the power source. EWM therefore takes an overall view of the complete system – welding machine, wire feed, tube package, filler materials and welding torch – to optimise the components and their combined performance. Only the specially developed and perfectly compatible gas- or liquid-cooled welding torches from EWM enable you to exploit the unique potential of our welding machines and innovative welding processes.

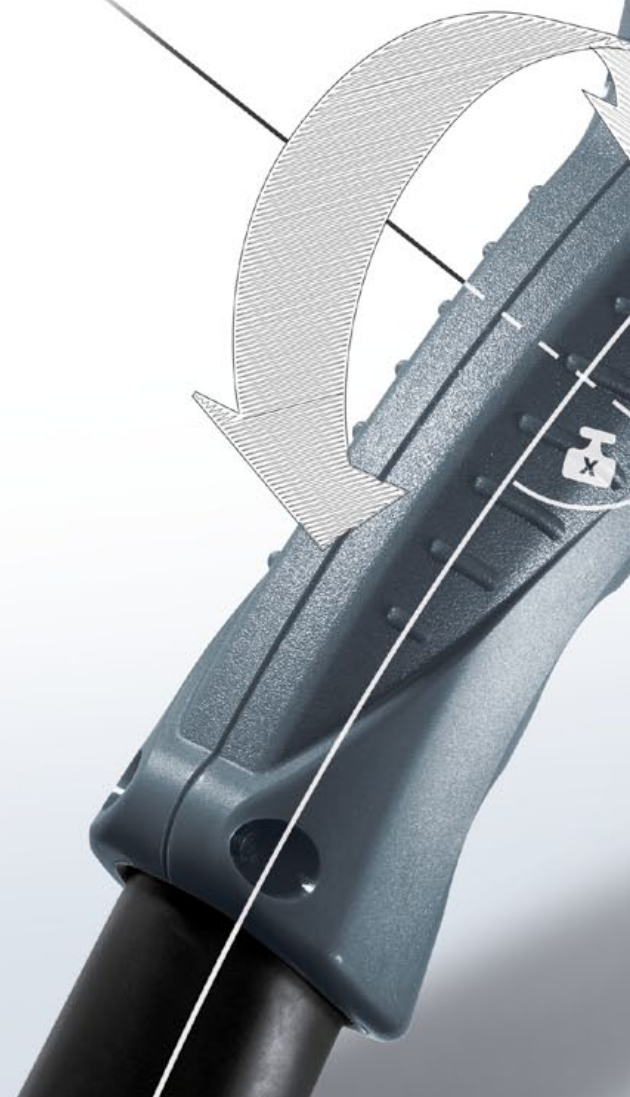
DVANTAGE.



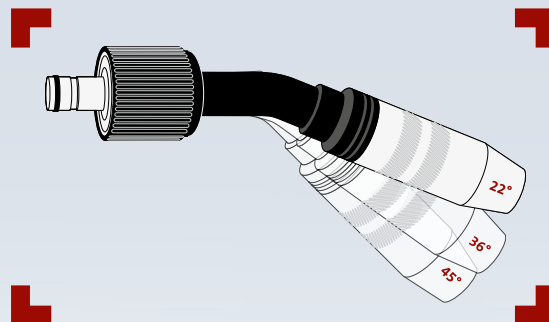
Harness the power.

MICROPROCESSORS, INNOVATIVE WELDING PROCEDURES, PRE-DEFINED JOBS ARE ALL FINE AND HELPFUL BUT IDEAL WELDING RESULTS DEPEND CHIEFLY ON ONE FACTOR: THE PERFECT INTERACTION BETWEEN THE WELDER AND THE OPTIMISED WELDING SYSTEM.

We at EWM therefore consistently develop our welding torches with one goal in mind: to give you – the welder – a tool with which you can optimally apply and implement your skill in every situation. You will notice this the first time you hold an EWM torch in your hand.



You have full control. All EWM welding torches are equipped with a torch trigger with high-quality microswitches. You can choose between standard and multi-function torches with many additional setting and display options. Even more flexibility is ensured by our models with changeable/swivel torch necks available in different angles, allowing you to adjust and lock the neck in any chosen position.



The design is both compact and robust

to guarantee maximum scope and the greatest possible safety. The torch neck rests firmly in the stable grip plate. The combination of its intelligent design and the robust tube package provides mobility and fault protection with absolutely no need for the compromise solution of ball joints and kink prevention. You will effortlessly master hard-to-reach places and cramped spaces.

Optimal counterbalancing and ergonomics take the strain out of your work.

The grip has an oval cross-section that lets you grasp it securely and almost automatically assumes the perfect working position – this greatly reduces the strain normally applied to your wrist. You can therefore keep on welding comfortably with little effort.



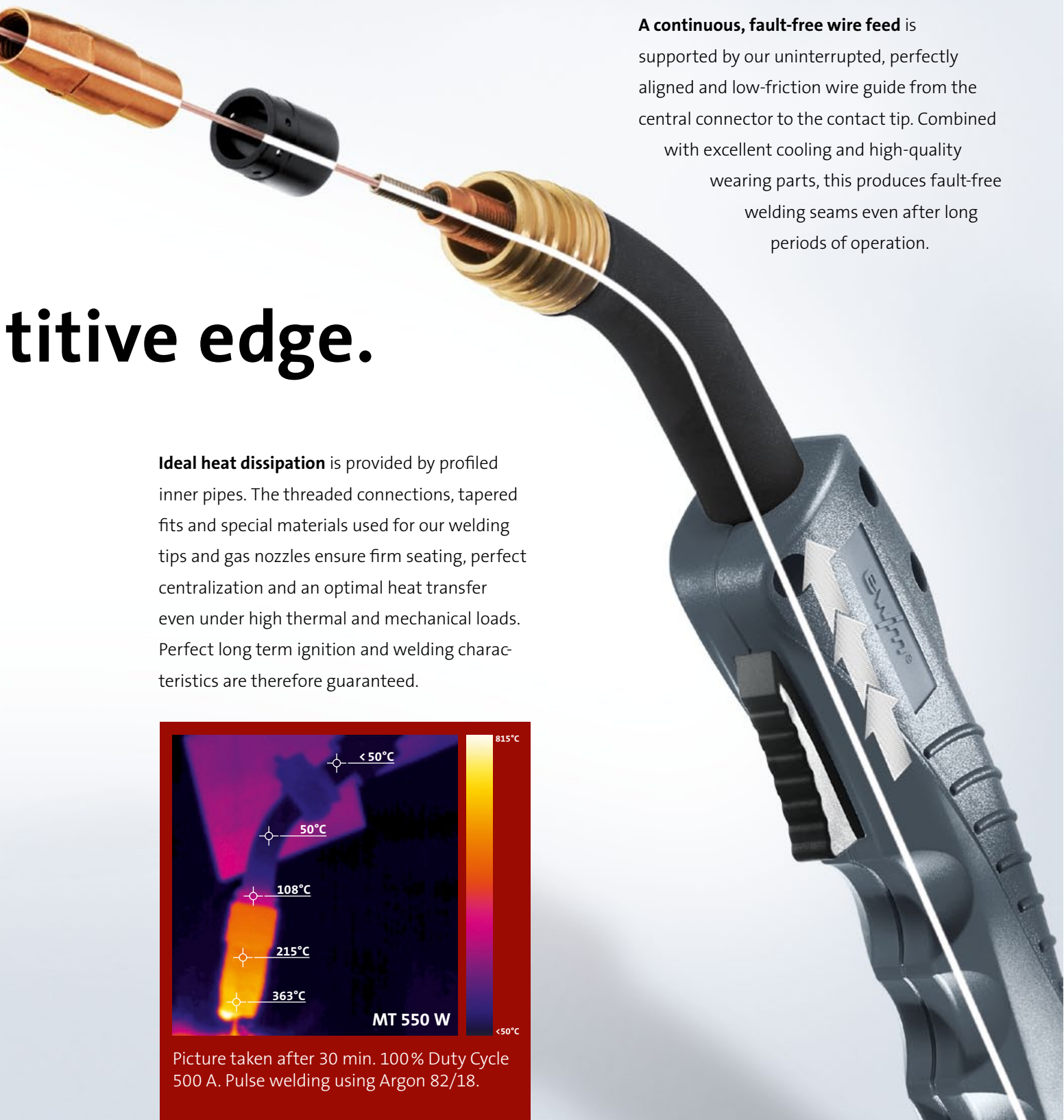
The constant, even gas shielding

results from the perfect combination of the separate gas flow, securely arrested gas distributor and optimal heat dissipation. The excellently cooled gas and contact tips minimise the adhesion and build up of accumulated spatter which in turn reduce gas flow.

Quality gives you the compe

PRODUCTION AND SAFEGUARDING OF THE HIGHEST QUALITY IS A VITAL ELEMENT OF YOUR CORPORATE SUCCESS. THE TOTAL SYSTEM CONSISTING OF EWM WELDING MACHINE AND MATCHING EWM WELDING TORCH HELPS YOU MEET THAT GOAL BY ACHIEVING THE BEST WELDING RESULTS MORE QUICKLY AND EASILY.

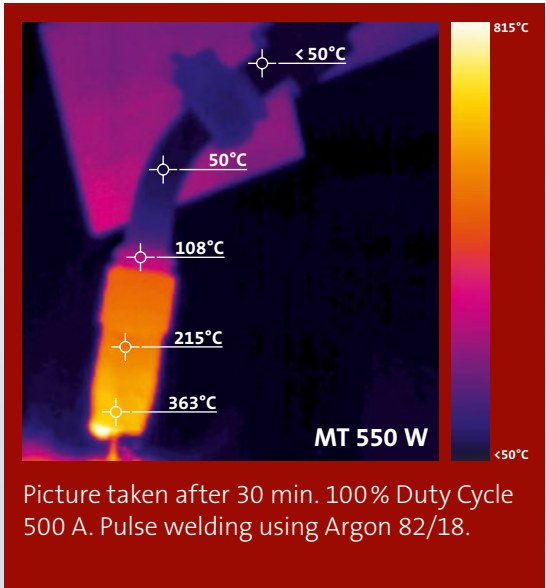
High-quality welding is immediately recognisable: long, perfect seams. The result: little reworking and no unpleasant surprises during quality inspections. All of these points are taken into consideration during the design and production of EWM welding torches, thus ensuring you these quality benefits.



A continuous, fault-free wire feed is supported by our uninterrupted, perfectly aligned and low-friction wire guide from the central connector to the contact tip. Combined with excellent cooling and high-quality wearing parts, this produces fault-free welding seams even after long periods of operation.

titive edge.

Ideal heat dissipation is provided by profiled inner pipes. The threaded connections, tapered fits and special materials used for our welding tips and gas nozzles ensure firm seating, perfect centralization and an optimal heat transfer even under high thermal and mechanical loads. Perfect long term ignition and welding characteristics are therefore guaranteed.



Invest in Efficiency.

Fewer replacement investments.

The extreme robustness and longevity of our welding torches and the increased durability of our EWM wearing parts noticeably extend procurement cycles for replacement welding torches and parts.

Lower material costs.

The separate shielding gas tube in our EWM welding torches prevents gas losses and considerably reduces gas consumption. You simultaneously save on wire because the perfect cooling and optimal heat transfer result in less spatter and other welding faults.



IT IS MORE ESSENTIAL TODAY THAN EVER BEFORE FOR COMPANIES TO INVEST RESOURCES ECONOMICALLY. WITH EWM, YOU INVEST EFFECTIVELY IN REDUCING OPERATING AND FOLLOW-UP COSTS.

The purchase price alone is only a limited indicator of the economic value of an investment. What counts are the related follow-up costs and the ability to accelerate your investment returns.

The complete system consisting of a high-tech EWM welding power source and matching torch is a premium solution which is rapidly amortised by the increased efficiency of your production. Especially your use of the full potential of EWM forceArc® and pulsed arc welding allows you to optimise your welding processes, minimise welding faults, cut costs, raise capacities and rationalise your manufacturing.



Lower personnel costs per metre of welding seam. The increased service life of the system permits uninterrupted welding for longer periods. Time-consuming preparatory and finishing work is minimised. The high quality of the wearing parts ensures less frequent replacements. The overall result is a sustained increase in the welder's valuable productive time.

Demand the performance elite.



TYPE	MT 220 G	MT 300 G	MT 400 G
Operating versions	standard or multi-function torch		
Exchangeable torch neck "C"	MT 220 GC	MT 300 GC	-
Fume extracting welding torch "F"	MT 220 GF	MT 300 GF	-
Cooling	gas-cooled	gas-cooled	gas-cooled
Welding current CO ₂	250 A at 60 % dc	330 A at 60 % dc	450 A at 35 % dc
Welding current M 21	220 A at 60 % dc	300 A at 60 % dc	400 A at 35 % dc
Welding current M 21 pulse	150 A at 60 % dc	210 A at 60 % dc	260 A at 35 % dc
Shielding gas	mixed gas M 21 or CO ₂ compliant with DIN EN 439		
Wire diameter	0.6 to 1.2 mm	0.8 to 1.2 mm	0.8 to 2.0 mm
Gas flow	10 to 20 l/min	10 to 20 l/min	10 to 25 l/min
Length of tube package	3 m / 4 m / 5 m	3 m / 4 m / 5 m	3 m / 4 m / 5 m
Connection	Eurocentral (ECA)	Eurocentral (ECA)	Eurocentral (ECA)
Torch data conforming to	IEC 60974-7	IEC 60974-7	IEC 60974-7

Choose between standard or multi-function torches in three different configurations.



Up / Down

Setting of:

- Welding current
- Wire speed
- Programme



PC 1

Setting and display of:

- Welding current
- Wire speed
- Programme



PC 2

Setting and display of:

- Welding current
- Wire speed
- Welding voltage correction
- Programs
- JOB

COMPACT, ROBUST, STRONG – AND PERFECTLY COMPATIBLE WITH THE EWM TOTAL WELDING SYSTEM: THE VARIOUS PERFORMANCE CLASSES AND VERSIONS OF OUR WELDING TORCHES.



MT 450 W	MT 550 W	MT 550 WL	TYPE
standard or multi-function torch			Operating versions
-	-	-	Exchangeable torch neck "C"
MT 450 WF	MT 550 WF	-	Fume extracting welding torch "F"
liquid-cooled	liquid-cooled	liquid-cooled	Cooling
500 A at 100 % dc	650 A at 100 % dc	650 A at 100 % dc	Welding current CO ₂
450 A at 100 % dc	550 A at 100 % dc	550 A at 100 % dc	Welding current M 21
350 A at 100 % dc	500 A at 100 % dc	500 A at 100 % dc	Welding current M 21 pulse
mixed gas M 21 or CO ₂ compliant with DIN EN 439			Shielding gas
0.8 to 1.6 mm	0.8 to 2.0 mm	0.8 to 2.4 mm	Wire diameter
10 to 20 l/min	10 to 20 l/min	10 to 20 l/min	Gas flow
3 m / 4 m / 5 m	3 m / 4 m / 5 m	3 m / 4 m / 5 m	Length of tube package
Eurocentral (ECA)	Eurocentral (ECA)	Eurocentral (ECA)	Connection
IEC 60974-7	IEC 60974-7	IEC 60974-7	Torch data conforming to

Wearing parts set



Wearing parts sets are available for all types of torch and the different CrNi/aluminium applications as well as steel.

Contents of our wearing parts sets:
Gas nozzles, contact tips, nozzle holders, gas distributors, spiral guide or combination liner, torch key.



EWM HIGHTEC WELDING GmbH
Dr.-Günter-Henle-Straße 8
56271 Mündersbach
Germany
Phone: +49 2680 181-0 · Fax: -244
www.ewm-group.com · info@ewm-group.com

EWM Schweißtechnik-Handels-GmbH
In der Florinskaul 14-16
56218 Mülheim-Kärlich
Germany
Phone: +49 261 988 898-0 · Fax: -244
www.ewm-group.com/handel
nl-muelheim@ewm-group.com

EWM Schweißtechnik-Handels-GmbH
Sachsstraße 28 · 50259 Pulheim
Germany
Phone: +49 2234 697-047 · Fax: -048
www.ewm-group.com/handel
nl-koeln@ewm-group.com

EWM HIGHTEC WELDING GmbH
Branch North
Lindenstraße 1a · 38723 Seesen-Rhüden
Germany
Phone: +49 5384 90798-0 · Fax: -20
www.ewm-group.com/handel
nl-nord@ewm-group.com

EWM HIGHTEC WELDING s.r.o.
Tr. 9. května 718 · 407 53 Jiřikov
Czech Republic
Phone: +420 412 358-551 · Fax: -20
www.ewm-group.com/cz · info.cz@ewm-group.com

EWM HIGHTEC WELDING SALES s.r.o.
Prodejní a poradenské centrum
Tyršova 2106 · 256 01 Benešov u Prahy
Czech Republic
Phone: +420 317 729-517 · Fax: -712
www.ewm-group.com/cz · sales.cz@ewm-group.com

EWM HIGHTEC WELDING UK Ltd.
Unit 2B Coopies Way
Coopies Lane Industrial Estate
Morpeth · Northumberland · NE61 6JT
Great Britain
Phone: +44 1670 505 875 · Fax: -514 305
www.ewm-group.com/uk · info.uk@ewm-group.com

EWM HIGHTEC WELDING GmbH
Scharnsteinerstraße 15 · 4810 Gmunden
Austria
Phone: +43 7612 778 02-0 · Fax: -20
www.ewm-group.com/at · info.at@ewm-group.com

EWM HIGHTEC WELDING (Kunshan) Ltd.
10 Yuanshan Road, Kunshan
New & High-Tech Industry Development Zone
KunShan · JiangSu · 215300
People's Republic of China
Phone: +86 512 57867-188 · Fax: -182
www.ewm-group.com/cn · info.cn@ewm-group.com

EWM HIGHTEC WELDING FZCO
Regional Office Middle East
JAFZA View 18 F 14 05 · P.O. Box 262851
Jebel Ali Free Zone · Dubai
United Arab Emirates
Phone: +971 4 8857-789 · Fax: -500
www.ewm-group.com/me · info.me@ewm-group.com

SALES / CONSULTANCY / SERVICE