

Lasting Connections

MIG/MAG TORCHES



BÖHLER WELDING

Lasting Connections

As a pioneer in innovative welding consumables, Böhler Welding offers a unique product portfolio for joint welding world-wide. More than 2000 products are adapted continuously to the current industry specifications and customer requirements, certified by well-respected institutes and thus approved for the most demanding welding applications. As a reliable partner for customers, "lasting connections" are the brand's philosophy in terms of both welding and people.

Our clients benefit from a partner with

- » the highest expertise in joining, rendering the best application support globally available
- » specialized and best in class product solutions for their local and global challenges
- » an absolute focus on customer needs and their success
- » a worldwide presence through factories, offices and distributors

Due to our new torch portfolio, from now on, Böhler Welding offers the perfect combination of welding machines, torches and consumables to achieve the best welding solution out of one hand.



FULL POWER IN YOUR HAND

Robust, long lifetime and excellent handling

MIG/MAG torches by Böhler Welding are durable products for premium performance and high quality welds. With their light weight and excellent balance, our air and liquid cooled torches are premium products to achieve excellent welding results.



Our four air cooled Böhler MT xxx G torches are convincing when the best possible welding results with torch neck geometry should be achieved. The slim, straight handles allow easy handling as well as different posture positions and flexibility within the torch neck alignment. These torches are very robust, durable and thanks to the double fixation of the torch neck especially well protected against mechanical deformation. The torch necks and gas nozzles are nickel-plated to prevent the formation of weld spatter. Additionally, the low weight of the cable and the torch allows comfortable welding.

Our two liquid cooled Böhler MT xxx W torches are superior due to higher load limits compared to conventional torches of the same size. Due to the cooling system, wear parts are well protected from overheating - even at high outputs. Integrated spatter protection within the gas nozzles make these torches particularly resistant and robust. In addition, torch necks and gas nozzles are nickel-plated to prevent the formation of weld spatter.

Key Benefits for air and liquid cooled MIG/MAG torches by Böhler Welding

- » High quality and durability
- » Reliable solution offering premium performance, robustness, endurance and an increase of productivity
- » Robust wear parts ensuring minimum shielding gas loss and long-life cycle
- » Advanced ergonomic design ensures good comfort in all welding positions
- » Easy maintenance and replacement of wear parts

AIR COOLED TORCHES

Product	Technical data (EN 60 974-7)
Air cooled (available in 3 m & 4 m versions)	
Böhler MT 150 G - Böhler MT 150 G U/D	» Load: 170 A CO ₂ , 170 A mixed gas * » Duty cycle: 60 % » Wire-Ø: 0,8–1,0 mm
Böhler MT 250 G - Böhler MT 250 G U/D	» Load: 230 A CO ₂ , 220 A mixed gas * » Duty cycle: 60 % » Wire-Ø: 0,8–1,2 mm
Böhler MT 300 G - Böhler MT 300 G U/D	» Load: 280 A CO ₂ , 260 A mixed gas * » Duty cycle: 60 % » Wire-Ø: 0,8–1,6 mm
Böhler MT 350 G - Böhler MT 350 G U/D	» Load: 330 A CO ₂ , 310 A mixed gas * » Duty cycle: 60 % » Wire-Ø: 0,8–1,6 mm

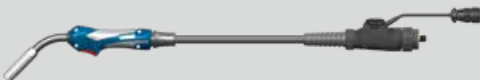
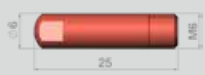
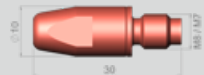
* [M21 (DIN EN ISO 14175)]

Product features	User benefits	High quality spare parts
» Light weight and very powerful » Premium performance, high robustness and lifetime » Excellent balance and ergonomic handle with ball joint » Optimal handle grip with soft component » Massive torch neck with double fixations in handle for the toughest operating conditions » Solid fixed slip-on nozzle » Premium nickel plated gas nozzle and thermally highly loadable insulation » Contact tip holder including gas diffuser » Insulated liners as standard to prevent gas loss at the machine side connection » Highly flexible and durable coaxial cable » Light coaxial cable (1/3 lighter than the standard on the market)	» Long lifetime of the torch reduces recurring investment costs » Higher productivity due to high heat resistance » Time saving thanks to easy maintenance and replacement of wear parts » Weight saving considerably reduces the physical strain on welders, especially for longer seams or difficult accessibility » High working comfort for all welding positions (even in positional welding) » Time saving through quick change and proper fixation of slip-on nozzle during hot welding processes	» Precisely manufactured parts with very tight tolerances ensure stable processes » Gas Nozzle: High quality nickel plating reduces spatter adherence by more than 30%, high temperature loadable » Proper fixed nozzle seat due to snap ring clamping » CuCrZr tips for long lasting and durable wire feeding, "high speed deep drilling" production process enables narrow tolerances and smoother surface for ideal current transfer » Insulated Liner and connection: No gas losses and no disturbance of power sensing » No additional gas diffuser made of synthetic material - less spare parts and cost, more reliable and robust » Torch body: Double fixation protect the neck against mechanical damage



BÖHLER MIG/MAG TORCHES

BÖHLER MT XXX G (AIR COOLED)

Torch types - BÖHLER MT		150 G		250 G		300 G		350 G	
Standard									
		M6	M6	M7	M8	M7	M8	M7	
	3 m	56638	72767	56641	72781	56655	72795	56658	
	4 m	56639	72778	56652	72783	56657	72807	56702	
U/D									
		M6	M6	M7	M8	M7	M8	M7	
	3 m	81.05.001	81.05.033	81.05.003	81.05.035	81.05.005	81.05.037	81.05.007	
	4 m	81.05.002	81.05.034	81.05.004	81.05.036	81.05.006	81.05.038	81.05.008	
Wear and spare parts		for 150 G - 150 G U/D		for 250 G - 250 G U/D		for 300 G - 300 G U/D - 350 G - 350 G U/D			
Gas nozzle (5 pcs.)		 NW12 / L = 53 / Ø 18	 NW16 / L = 70 / Ø 22	 NW16 / L = 72 / Ø 25					
		56739	56740	56752					
Contact tip (10 pcs.)		 Ø 6 / L = 25	 Ø 8 / L = 28	 Ø 10 / L = 30					
		M6	M6	M7	M8		M7		
Contact tip ECu	Ø 0.8	56810	72939	60596	72936		56812		
	Ø 1.0	56811	72940	60598	72937		56814		
	Ø 1.2		72947	60605	72938		56817		
Contact tip CuCrZr	Ø 0.8		73098	63443	72948		56820		
	Ø 1.0		73102	63444	72983		56824		
	Ø 1.2		73107	63445	72989		56831		
	Ø 1.6				73014		56839		
Contact tip ECu for aluminium wire	Ø 0.8	63433	73026	63435	73061		63438		
	Ø 1.0	63434	73043	63436	73073		63439		
	Ø 1.2		73055	63437	73086		63440		
	Ø 1.6				73087		63442		
Contact tip holder / brass (5 pcs.)		 M8x1 / L = 50	 M10x1 / L = 52	 M12x1 / L = 53					
		M6	M6	M7	M8		M7		
		56772	72917	56775	72921		56783		
Nozzle spring (100 pcs.)									
		61431							

SELECTION GUIDE

FULL POWER IN YOUR HAND





LIQUID COOLED TORCHES

Product	Technical data (EN 60 974-7)
Liquid cooled (available in 3 m & 4 m versions)	
Böhler MT 440 W - Böhler MT 440 W U/D	» Load: 500 A CO ₂ , 450 A mixed gas * » Duty cycle: 100 % » Wire-Ø: 0,8–1,6 mm
Böhler MT 540 W - Böhler MT 540 W U/D	» Load: 600 A CO ₂ , 550 A mixed gas * » Duty cycle: 100 % » Wire-Ø: 0,8–1,6 mm

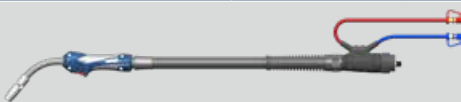
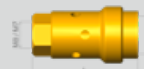
* [M21 (DIN EN ISO 14175)]

Product features	User benefits	High quality spare parts
» Premium performance, high robustness and lifetime » Excellent balance and ergonomic handle with ball joint » Optimal handle grip with soft component » Massive torch neck with triple fixations in handle for the toughest operating conditions » Premium nickel plated gas nozzle and thermally highly loadable insulation » Long gas transport distance for excellent consistent gas coverage » Contact tip holder including gas diffuser » Insulated liners as standard to prevent gas loss at the machine side connection » One flexible cable assembly for all liquid cooled torches without separate gas hose	» High load limits allow to use a high range of different wires for welding » Higher productivity due to high heat resistance » Long lifetime of the torch reduces recurring investment costs » Time saving thanks to easy maintenance and replacement of wear parts » High working comfort for all welding positions (even in positional welding) » Reduction of storage and maintenance costs due to the use of the same hoses and cables for both liquid cooled torches	» Precisely manufactured parts with very tight tolerances ensure stable processes » Gas Nozzle high quality nickel-plated nozzle reduces spatter adhesion by more than 30%. » CuCrZr tips for long lasting and durable wire feeding, "high speed deep drilling" production process enables narrow tolerances and smoother surface for ideal current transfer » Insulated Liner and connection: No gas losses and no disturbance of power sensing. » No additional gas diffuser made of synthetic material - less spare parts and cost, more reliable and robust » Torch body: Triple fixation protect the neck against mechanical damage » Cable assembly: Solid and robust threaded connections.

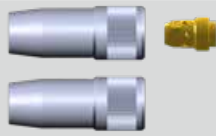


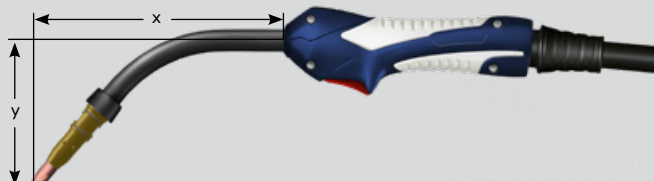
BÖHLER MIG/MAG TORCHES

BÖHLER MT XXX W (LIQUID COOLED)

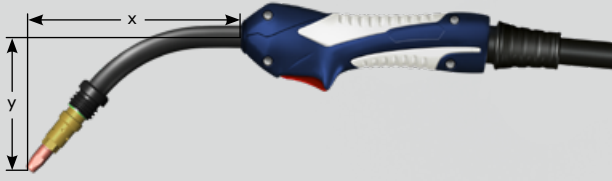
Torch types - BÖHLER MT		440 W		540 W	
Standard					
		M8	M7	M8	M7
	3 m	72812	56716	72860	56729
	4 m	72826	56728	72878	56730
U/D					
		M8	M7	M8	M7
	3 m	81.05.039	81.05.009	81.05.041	81.05.011
	4 m	81.05.040	81.05.010	81.05.042	81.05.012
Wear and spare parts		for 440 W - 440 W U/D		for 540 W - 540 W U/D	
Gas nozzle (5 pcs.)		 NW14.5 / L = 66 / Ø 22		 NW16 / L = 66 / Ø 24	
		56753		56755	
Contact tip (10 pcs.)		 Ø10 / L = 30			
		M8		M7	
Contact tip ECu	Ø 0.8	72936		56812	
	Ø 1.0	72937		56814	
	Ø 1.2	72938		56817	
Contact tip CuCrZr	Ø 0.8	72948		56820	
	Ø 1.0	72983		56824	
	Ø 1.2	72989		56831	
	Ø 1.6	73014		56839	
Contact tip ECu for aluminium wire	Ø 0.8	73061		63438	
	Ø 1.0	73073		63439	
	Ø 1.2	73086		63440	
	Ø 1.6	73087		63442	
Contact tip holder / brass (5 pcs.)		 M10x1 / L = 28		 M10x1 / L = 28.5	
		M8	M7	M8	M7
		72926	56786	72931	56797

WEAR AND SPARE PARTS

Heavy duty wear part sets			
HD gas nozzle set MT 540 W (2 pcs. HD gas nozzle, 1 pc. contact tip holder)			
		M8	M7
		72932	63430

Torch neck MT xxx G		150 G - 150 G U/D		250 G - 250 G U/D		300 G - 300 G U/D		350 G - 350 G U/D	
Torch neck + Contact tip holder									
	Geometry	45°		45°		45°		45°	
	X x Y (mm)	120 x 80		140 x 85		150 x 85		180 x 105	
		M6	M6	M7	M8	M7	M8	M7	
		70962	72933	70979	72934	70980	72935	70981	

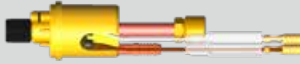
Torch neck spares		for 150 G - 150 G U/D	for 250 G - 250 U/D	for 300 G - 300 G U/D - 350 G - 350 G U/D
Protection cap (10 pcs.)		70513	70534	
Connection piece halves (1 pair)		70255		-
Head insulation (5 pcs.)		70424	70440	70441

Torch neck MT xxx W		440 W - 440 W U/D	540 W - 540 W U/D
Torch neck (excl. Contact tip holder)			
	Geometry	50°	50°
	X x Y (mm)	140 x 95	160 x 95
		70991	70992

Torch neck spares		for 440 W - 440 W U/D - 540 W - 540 W U/D
Insulating disc (10 pcs.)		70466
O-ring (red) (20 pcs.)		70477

Liner for air-cooled and liquid-cooled torches MT line				
Liner (1 pcs.) for air-cooled and liquid-cooled torches MT Line				
		neutral	PTFE (for stainless steel wire)	Carbon-PTFE (for aluminium wire)
Liner 3 m	Ø 0.8	56840	62197	62205
	Ø 1.0 / 1.2	56849	62200	62207
	Ø 1.6	56876	62202	62209
Liner 4 m	Ø 0.8	56846	62198	62206
	Ø 1.0 / 1.2	56875	62201	62208
	Ø 1.6	56877	62204	62210
Liner (1 pcs.) for air-cooled and liquid-cooled torches MT Line				
		Combi-Liner Al (PTFE/Brass)	Combi-Liner Al (Carbon-PTFE/Brass)	
Liner 3 m	Ø 0.8	70229	70121	
	Ø 1.0 / 1.2	70161	70176	
	Ø 1.6	70155	73108	
Liner 4 m	Ø 0.8	70230	70152	
	Ø 1.0 / 1.2	70215	70224	
	Ø 1.6	70159	73111	

Cable assembly		Standard		U/D	
Cable assembly MT xxx G					
		Light-weight - 2-pole		Light-weight - 5-pole	
		3 m	4 m	3 m	4 m
Bikox MT 150 G	R18	70007	70008	70017	70031
Bikox MT 250 G	R28	70032	70033	70035	70036
Bikox MT 300 G	R42	70039	70040	70041	70045
Bikox MT 350 G	R53	70047	70048	70049	70052
Cable assembly MT xxx W					
		3 m	4 m	3 m	4 m
		70064	70071	70075	70078

Connection housing / Central connector		for MT xxx G	for MT xxx G U/D	for MT xxx W	for MT xxx W U/D
Connection housing incl. Bayonet (1 pc.)					
		63453	70234	63454	
Central connector (1 pc.)					
		70096		70100	
Hexagon nut (10 pcs.)	M10x1	70468		-	
Connection nut	M33x2	70237			
Nut (5 pcs.)	M10x1	70439			
O-Ring (black) (20 pcs.)	4x1	70474			
SELCO plug - 7-pole					
		70622			
Controle lead with SELCO plug - 7-pole					
		70279			

Cable assembly components - MT xxx G				
Cable support (for connection housing side)				
		MT 150 G - 250 G DN19	MT 300 G - 350 G DN21	MT 350 G U/D DN22.5
		70308	70309	70328
Cable support (for handle side)				
		MT xxx G - DN17 - 22		
		70330		

Cable assembly components - MT xxx W			
Power cable PVC		3 m	4 m
			
		70497	70512
Wire conduit with crimping sleeve		3 m	4 m
			
		70641	70642

Cable assembly components - MT xxx W			
Control lead with connectors		3 m	4 m
			
		70266	70267
Hose clip (20 pcs.)	D 9 mm	70442	
Outer cover with cable support (handle side)		3 m	4 m
			
		70479	70480
Cable support			
		spring	sleeve (10 pcs.)
		70062	70058
Fastener cap (20 pcs.)			
		blue	red
		70384	70401
Exchange support		for power water cable	for wire conduit - gas hose
		70342	70333

Handle set, lever trigger, TPE-insert, controle module			
Handle set			
		Standard	U/D
		handle, lever trigger (standard and long), ball-joint, screws, insert nuts and stickers	handle, Controle module U/D, TPE insert U/D, lever trigger (standard and long), ball-joint, screws, insert nuts and stickers
Lever trigger (2 pcs.)			
		standard	long
		63431	63432
Controle module U/D			
		70303	
TPE insert U/D - BIS-52 (2 pcs.)			
		70639	



JOIN! voestalpine Böhler Welding

We are a leader in the welding industry with over 100 years of experience, more than 50 subsidiaries and more than 1,000 distribution partners around the world. Our extensive product portfolio and welding expertise combined with our global presence guarantees we are close when you need us. Having a profound understanding of your needs enables us to solve your demanding challenges with Full Welding Solutions - perfectly synchronized and as unique as your company.



Lasting Connections – Perfect alignment of welding machines, consumables and technologies combined with our renowned application and process know-how provide the best solution for your requirements: A true and proven connection between people, products and technologies. The result is what we promise: Full Welding Solutions for Lasting Connections.



Tailor-Made Protectivity™ – The combination of our high-quality products and application expertise enables you to not only repair and protect metal surfaces and components. Our team of engineers, experienced in your specific applications, offer you customized solutions resulting in increased productivity for your demanding challenge. The result is what we promise: Tailor-Made Protectivity™.



In-Depth Know-How – As a manufacturer of soldering and brazing consumables, we offer proven solutions based on 60 years of industrial experience, tested processes and methods, made in Germany. This in-depth know-how makes us the internationally preferred partner to solve your soldering and brazing challenge through innovative solutions. The result is what we promise: Innovation based on in-depth know-how.

The Management System of voestalpine Böhler Welding Group GmbH, Peter-Mueller-Strasse 14-14a, 40469 Duesseldorf, Germany has been approved by Lloyd's Register Quality Assurance to: ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2007, applicable to: Development, Manufacturing and Supply of Welding and Brazing Consumables. More information: www.voestalpine.com/welding



