

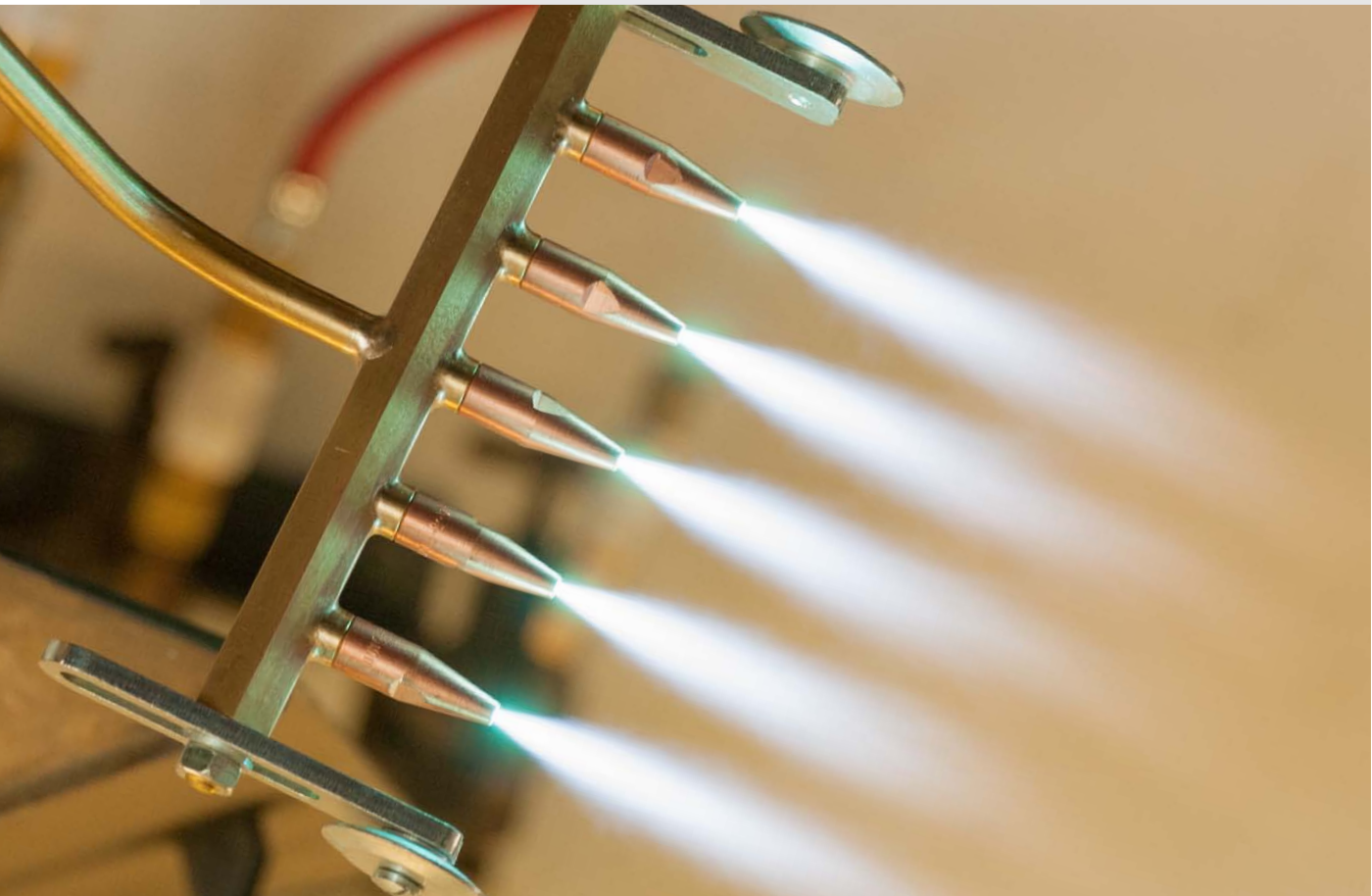
Product Catalogue

Oxy-fuel Cutting and Welding



**Mechanische
Werkstätten Wurzen GmbH**
Autogen-Schweiß- und Schneidtechnik
Formen- und Werkzeugbau





Oxy-fuel Cutting and Welding Technology

„Made in Saxony“ for more than 75 years

Having more than 75 years experience in manufacturing oxy-fuel cutting and welding technology, we are your perfect partner for high-quality products and custom-made devices.

Our product range covers articles for welding, flame cutting, flame heating and torch soldering.

As we work with a quality management system in accordance with DIN ISO 9001 and have shifted almost our whole production to CNC technology, we can guarantee the best quality for our products.

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Welding Kit Standard Equipment



Suitable for welding, cutting, flame heating, torch soldering and flame straightening for low working ranges.

Contains

- 1 handle MWW 520/1 or Brenner 90 W
- 4 welding attachments
- 1 cutting attachment with lever valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 steel sheet box

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560):
oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Handle	Stock no.
0,5 – 6 mm	5 – 60 mm	MWW 520/1	00110
		Brenner 90 W	00110G
1 – 9 mm	5 – 60 mm	MWW 520/1	00110(A)

Welding Kit Standard Equipment with Cutting Attachment for Gas-Mixing Nozzles



Suitable for welding, cutting, flame heating, torch soldering and flame straightening for low working ranges.

Contains

- 1 handle MWW 520/1 or Brenner 90 W
- 4 welding attachments
- 3 cutting nozzles AGN
- 1 gas-mixing cutting attachment with lever valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 steel sheet box

Technical Data

- Welding attachments are injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560):
oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Handle	Stock no.
0,5 – 6 mm	10 – 60 mm	MWW 520/1	00110/GM
1 – 9 mm	10 – 60 mm	MWW 520/1	00110/GM/A

Pipe Welding Kit



Contains

- 1 handle MWW 520/1 or Brenner 90 W
- 4 pipe welding attachments (bendable)
- 1 cutting attachment with lever valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 protection goggles
- 1 welding mirror
- 1 steel sheet box

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560): oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Handle	Stock no.
1 – 9 mm	5 – 100 mm	MWW 520/1	00561

UAG Welding Kit

Suitable for welding, cutting, flame heating, soldering and flame straightening.



Contains

- 1 handle MWW 520/1 or Brenner 90 W
- 6 or 8 welding attachments
- 1 cutting attachment with lever or spindle valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 protection goggles
- 1 guide block
- 1 radius bar for circular cuts
- 1 gas lighter
- 1 steel sheet box

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560): oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Cutting attachm.	Handle	Stock no.
0,5 – 14 mm	5 – 100 mm	With lever valve	MWW 520/1	20011
			Brenner 90 W	20011G
0,5 – 30 mm	5 – 300 mm	With spindle valve	MWW 520/1	00111
		With lever valve	MWW 520/1	20011A
		With spindle valve	MWW 520/1	00111A

Welding Kit Propane-Universal



Please note that this appliance can only be used for welding with propane-oxygen in conjunction with a welding wire containing manganese and silicon.

Contains

- 1 handle MWW 520/1 or Brenner 90 W
- 4 welding attachments with heat accumulator
- 1 cutting attachment with lever valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 protection goggles
- 1 nozzle case
- 1 guide block
- 1 radius bar for circular cuts
- 1 steel sheet box

Technical data

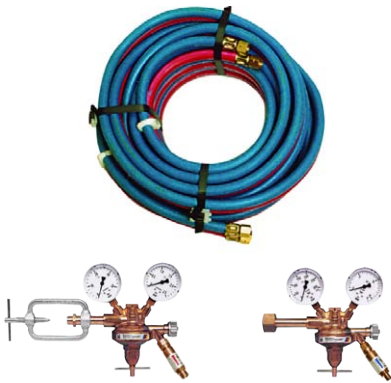
- Injector-type
- Fuel gas: propane
- Hose connections (DIN EN 560): oxygen G 1/4, propane G 3/8 LH

Welding range	Cutting range	Handle	Stock no.
0,5 – 9 mm	5 – 100 mm	MWW 520/1	00213



Accessories for Welding Jobs

Type	Description	Stock no.
Multiple wrench	With 8 spanner sizes from 8 mm up to 24 mm	40480
Protection goggles	With dark glasses	00070
	Hinged (light and dark glasses)	00075
Gas lighter	With exchangeable flat file, flint included	00060
	With exchangeable roller file, flint included	00065
Nozzle cleaning set	For welding nozzles	03031



Equipment Set for Welding and Cutting Appliances

Contains

- 1 hose package with 10 m or 20 m (twin hose oxygen/acetylene - 6 mm/9 mm)
- 2 pressure regulators: 1 for oxygen and 1 for acetylene
- 2 flashback arrestors: 1 for oxygen and 1 for acetylene

Type	Stock no.
Set with 10 m long hoses	60901
Set with 20 m long hoses	60903



StableCut Mechanical Sliding Device for Manual Gas Cutting

NEW

- Strong magnets fix variable guide rails safely to the workpiece
- Precise straight cuts horizontally, vertically and overhead
- One-hand operation
- Controlled cutting speed by toothed rack guide
- Adapter (torch holder) for usage with MWW appliances necessary

Type	Stock no.
StableCut Basis Kit	60195
Guide rail 15"	60196/15
Guide rail 24"	60196/24
Adapter D24 - (torch holder) for usage with MWW appliances	60197/1
Magnet, to safely fix guide rails to the workpiece (at least 2 magnets per rail necessary)	60197/6



Cutting Torch GM 93

- Cutting range: 3 – 300 mm
- Works with gas mixing nozzles (e.g. AGN or PNME)
- Low risks of flashbacks
- The gas mixing nozzle has to be ordered separately

Technical data

- Fuel gases: acetylene, propane, natural gas (methane)
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH



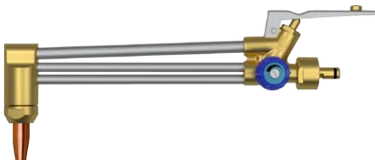
Head position	Total length approx.	Stock no.
90°	480 mm	10300
	600 mm	10300/60
	900 mm	10300/90
70°	480 mm	11300
	600 mm	11300/60
	900 mm	11300/90
straight head	900 mm	12300/90

Cutting Attachment for Gas Mixing Nozzles

- Cutting range: Up to 200 mm
- Works with gas mixing nozzles (e.g. AGN or PNME)
- Low risks of flashbacks
- The gas mixing nozzle has to be ordered separately

Technical data

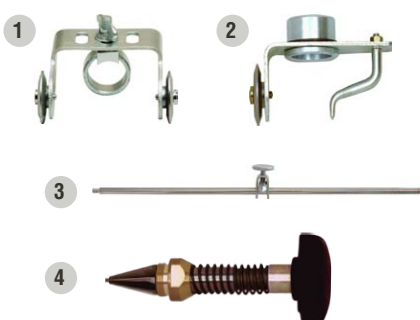
- Fuel gases: acetylene, propane, natural gas (methane)
- Suitable for handle MWW 520/1 and Brenner 90 W



Type	Tube type	Stock no.
Lever valve	With stainless steel tubes	10350H
	With brass tubes	10360H

Type	Description	Stock no.
Pressure screw	For mountin the cutting nozzle to the torch head	10700

Accessories for GM 93 and Cutting Attachment



	Type	Description	Stock no.
1	Guide block (Ø 28 mm)	For a steady distance between head and work piece	35730
2	Circular guiding block (Ø 28 mm)	for circular cuts	35780
3	Radius bar for guide block	For circular cuts with a diameter up to 700 mm	24500
4	Ream tool	For the seal face of nozzles	03040
		Similar to 03040, but hand or machine guided	03040/1

Gas Mixing Nozzles AGN (Acetylene)



Cutting range	Stock no.	Cutting range	Stock no.
3 – 10 mm	41510	40 – 60 mm	41540
10 – 25 mm	41520	60 – 100 mm	41550
25 – 40 mm	41530	100 – 200 mm	41560

Cutting range [mm]	3 – 10	10 – 25	25 – 40	40 – 60	60 – 100	100 – 200
Oxygen pressure [bar] *	2,4	2,7	3,5	4,0	4,7	5,5
Acetylene pressure [bar] *	0,5	0,5	0,5	0,5	0,7	0,7
Heating oxygen consump. [m³/h]	0,31 – 0,51	0,34 – 0,62	0,42 – 0,80	0,57 – 0,85	0,85 – 1,22	1,08 – 1,56
Cutting oxygen consump. [m³/h]	0,85	1,85	4,53	7,08	10,62	14,72
Acetylene consumption [m³/h]	0,28 – 0,48	0,34 – 0,57	0,40 – 0,71	0,51 – 0,80	0,80 – 1,10	0,99 – 1,42

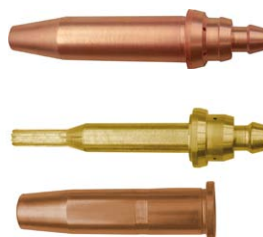
Gas Mixing Nozzles PNME (Propane, Methane)



Cutting range	Stock no.	Cutting range	Stock no.
3 – 10 mm	41512	40 – 60 mm	41542
10 – 25 mm	41522	60 – 150 mm	41552
25 – 40 mm	41532	150 – 300 mm	41562

Cutting range [mm]	3 – 10	10 – 25	25 – 40	40 – 60	60 – 150	150 – 300
Oxygen pressure [bar] *	2,0 – 3,0	3,0 – 4,5	4,0 – 5,0	4,5 – 5,5	5,0 – 6,0	5,5 – 6,5
Fuel gas pressure [bar] *	0,3	0,3	0,3	0,3	0,3	0,3
Heating oxygen consumption [m³/h]	0,68 – 1,30	0,90 – 1,30	1,10 – 2,40	1,36 – 2,40	1,55 – 2,40	2,40
Cutting oxygen consumption [m³/h]	2,1	3,2	5,2	7,4	13,6	34,7
Fuel gas consumption [m³/h]	0,17 – 0,34	0,22 – 0,30	0,28 – 0,60	0,34 – 0,60	0,40 – 0,60	0,45 – 0,60

Gas Mixing Nozzles System Coolex

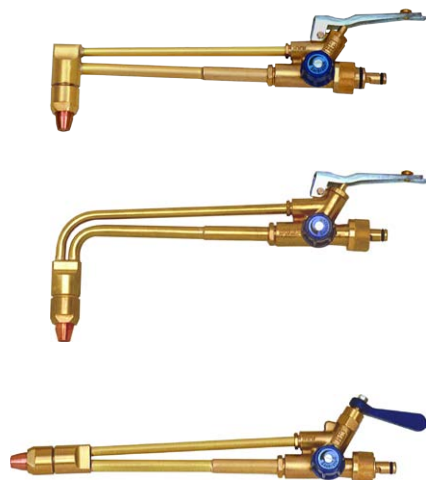


Cutting range	Stock no.		Cutting range	Stock no.	
	Acetylene	Propane/Methane		Acetylene	Propane/Methane
bis 50 mm	41410	41412	100 – 200 mm	41430	41432
50 – 100 mm	41420	41422	200 – 300 mm	41440	41442

Cutting range [mm]	Up to 50	50 – 100	100 – 200	200 – 300
Oxygen pressure [bar] *	1,0 – 3,1	1,8 – 4,9	4,2 – 7,4	4,3 – 7,3
Acetylene pressure [bar] *	0,3 – 0,8	0,3 – 0,8	0,5 – 0,8	0,5 – 0,8
Oxygen consumption [m³/h]	3,2 – 6,3	6,4 – 12,4	14,5 – 23,0	24,0 – 35,7
Acetylene consumption [m³/h]	0,74	1,05	1,2	1,3

Cutting range [mm]	Up to 50	50 – 100	100 – 200	200 – 300
Oxygen pressure [bar] *	4,0	5,0	7,0	8,0
Fuel gas pressure [bar] *	1,0	1,0	1,0	1,0
Oxygen consumption [m³/h]	9,5	15,0	31,4	49,2
Fuel gas consumption [m³/h]	0,9	1,25	1,6	2,3

Cutting Attachment MWW 520/1



Technical data

- Injector-type
- Cutting range: up to 300 mm
- **Cutting nozzle K 1** included

- Fuel gases: acetylene (standard), propane, alternative gases
- Suitable for handle MWW 520/1 and Brenner 90 W

Head position	Total length approx.	Type	Stock no.
90°	250 mm	Lever valve	44010
		Spindle valve	20610
Bent 90°	250 mm	Lever valve	20591
		Spindle valve	55000
Straight head	300 mm	Lever valve	44000H
		Spindle valve	44000S

Rescue Cutting Attachment MWW 520/1

Technical data

- Extra long cutting attachment MWW 520/1 with spacer
- Injector-type
- Cutting range: up to 300 mm (**Cutting nozzle K 1** included)

- Fuel gases: acetylene (standard), propane, alternative gases
- Suitable for handle MWW 520/1 and Brenner 90 W

Head position	Total length approx.	Type	Stock no.
90°	450 mm	Lever valve	00472H
		Spindle valve	00472S
	900 mm	Lever valve	00477H
		Spindle valve	00477S
Straight head	450 mm	Lever valve	00452H
		Spindle valve	00452S
	900 mm	Lever valve	00478H
		Spindle valve	00478S

Consumption data and pressures for oxygen / acetylene and oxygen / propane

Cutting range [mm]	5 – 15	15 – 30	30 – 60	60 – 100	100 – 200	200 – 300
Cutting nozzle	K 1	K 2	K 3	K 4	K 5	K 6
Oxygen pressure [bar] *	3,0	4,5	6,0	7,5	8,0	10,0
Heating oxygen consumption [m³/h]	0,6	0,7	0,9	1,0	1,2	1,5
Cutting oxygen consumption [m³/h]	1,5	3,0	5,0	10,0	15,0	25,0
Heating nozzle for acetylene	A 1	A 1	A 1	A 1	A 2	A 2
Acetylene pressure [bar] *	0,5	0,5	0,5	0,5	0,5	0,5
Acetylene consumption [m³/h]	0,55	0,65	0,8	0,9	1,0	1,3
Heating nozzle for propane	P 1	P 1	P 1	P 1	P 2	P 2
Propane pressure [bar] *	0,5	0,5	0,5	0,5	0,5	0,5
Propane consumption [kg/h]	0,3	0,35	0,4	0,5	0,7	0,8

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Nozzles



Cutting range		Suitable heating nozzles	Stock no.	
			Copper	Brass
K 0	3 – 5 mm	A1, P1, Y1, M1	41250CU	41250MS
K 1	5 – 15 mm		41260CU	41260MS
K 2	15 – 30 mm		41270CU	41270MS
K 3	30 – 60 mm		41280CU	41280MS
K 4	60 – 100 mm	A2, P2, Y2, M2	41290CU	41290MS
K 5	100 – 200 mm		41300CU	41300MS
K 6	200 – 300 mm		41310CU	41310MS

Heating Nozzles for Cutting Attachments



Heating nozzle	Cutting range	Fuel gas	Stock no.	
			Ø 18 mm	Ø 24 mm
A 1	3 – 100 mm	Acetylene	40300	37720
P 1		Propane	40520	37740
Y 1		Ethylen, MPS	40305	-
A 2	100 – 300 mm	Acetylene	40310	37730
P 2		Propane	40530	-

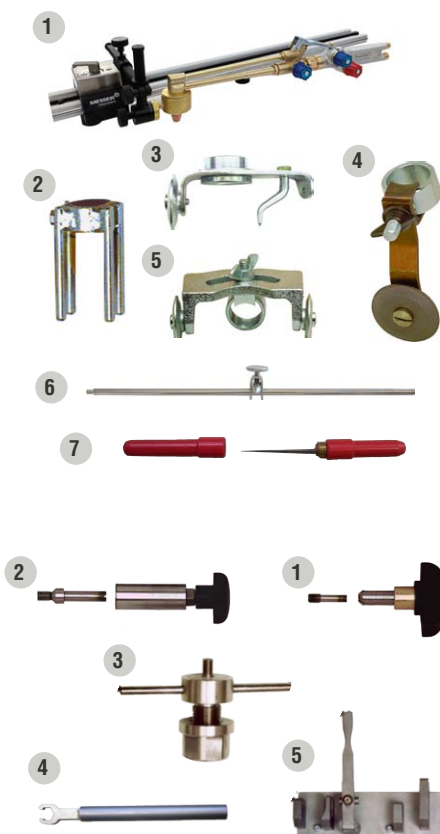
Type	Description	Stock no.
Coupling nut	For mounting the heating nozzle (Ø 18 mm) on the head	40070

Accessories for Cutting Attachments

Type	Description	Stock no.
1	StableCut Basis Kit	Mechanical sliding device for manual gas cutting 60195
2	Spacer	For a uniform distance between head and work piece 04031
3	Circular guide block	For circular cuts 41700
4	Mono-wheel guide block	For a uniform distance between head and work piece 35850
5	Guide block	For a uniform distance between head and work piece 24000
6	Radius bar for guide block	For circular cuts with a diameter up to 700 mm 24500
7	Cone reamer	To ream cutting nozzles K1 to K6 03067

Repair Tools for Cutting attachments

Type	Description	Stock no.
1	Ream tool	For the seal face at the cutting nozzles 03065
2		For the seal face at the heating nozzle (head Ø 24 mm) 03063
3	Filler plug	For torch head, to proof for leaks 03001
4	Special spanner	To assemble and disassemble cutting attachments 03003
5	Assemble equipment	For cutting attachments MWW 520/1 03000



Flame Gouging Attachment MWW 520/1

Technical data

- For preparing seams with special shapes or for reworking weld seams
- **Gouging nozzle F 1** included
- Injector-type
- Fuel gases: acetylene (standard), propane (please indicate when ordered)
- Suitable for handle MWW 520/1 and Brenner 90 W

Head position	Total length approx.	Stock no.	
		Spindle valve	Lever valve
Bent 60°	350 mm	46002S	46002H
Bent 30°	350 mm	46001S	46001H
Straight head	300 mm	46000S	46000H

Consumption data and pressures for oxygen / acetylene and oxygen / propane

Gouging nozzle	F 1	F 2	F 3
Oxygen pressure [bar] *	6,0	7,0	8,0
Heating oxygen consumption [m³/h]	0,8	0,9	1,1
Cutting oxygen consumption [m³/h]	6,5	10,0	17,0

Heating nozzle for acetylene	A 1	A 2	A 2
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,5
Acetylene consumption [m³/h]	0,7	0,8	1,0

Heating nozzle for propane	P 1	P 2	P 2
Propane pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,5
Propane consumption [kg/h]	0,5	0,52	0,6

* Flow pressure at the gas connector of the torch when valves are opened

Gouging Nozzles for Gouging Attachment



	Depth of joint	Width of joint	For heating nozzles	Stock no.	
				Copper	Brass
F 1	3 – 4 mm	8 – 10 mm	A1, P1, Y1, M1	40430CU	40430MS
F 2	4 – 6 mm	10 – 13 mm	A2, P2, Y2, M2	40440CU	40440MS
F 3	6 – 8 mm	13 – 18 mm		40450CU	40450MS

Gouging Nozzles long

	Depth of joint	Width of joint	For heating nozzles	Stock no.
				Brass
FL1	3 – 4 mm	8 – 10 mm	LA1	37930MS
FL2	4 – 6 mm	10 – 13 mm	LA2	37940MS
FL3	6 – 8 mm	13 – 18 mm		37950MS

Heating Nozzles for Gouging Attachment



Cutting range		Fuel gas	Stock no.	
			Ø 18 mm	Ø 24 mm
A 1	5 – 100 mm	Acetylene	40300	37720
P 1		Propane	40520	37740
A 2	100 – 300 mm	Acetylene	40310	37730
P 2		Propane	40530	-
LA 1	5 – 100 mm	Acetylene	40301	-
LA 2	100 – 300 mm	Acetylene	40311	-

Rivet Head Cutting Attachment MWW 520/1



Technical data

- Complete with 1 cutting nozzle up to 40 mm, 1 cutting nozzle 40–80 mm
- For cutting rivets, bolts and shafts
- Injector-type
- Fuel gases: acetylene (standard), propane (please indicate when ordered)
- Suitable for handle MWW 520/1 and Brenner 90 W

Cutting range	Type	Stock no.
Up to 80 mm	Lever valve	00781H
	Spindle valve	00781S



Nozzles for Rivet Head Cutting Attachment

Cutting range	Stock no.	
	Acetylene	Propane
Up to 40 mm	01922	01924
40 – 80 mm	01923	01925

Consumption data and pressures for oxygen / acetylene and oxygen / propane



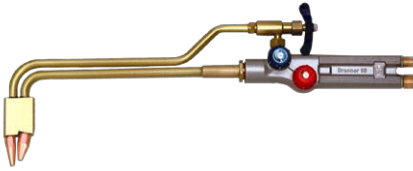
When taking the rivet head cutting attachment into operation, please note that – in contrast with other MWW cutting attachments – only fuel gas comes from the nozzle when the lateral valve is closed and the fuel gas valve is opened.

When working, the nozzle needs to be held with its flat bottom side placed on the work-piece surface. Using this cutting attachment, any parts, rivets, bolts, shafts etc. can be sheared off flush with the surface.

Working range [mm]	Up to 40 mm	40 – 80 mm
Oxygen pressure [bar] *	4,0	8,0
Heating oxygen consumption [m³/h]	0,55	0,85
Cutting oxygen consumption [m³/h]	4,5	10,5
Rivet head nozzle for acetylene	Up to 40 mm	40 – 80 mm
Acetylene pressure [bar] *	0,2	0,2 – 0,5
Acetylene consumption [m³/h]	0,48	0,65
Rivet head nozzle for propane	Up to 40 mm	40 – 80 mm
Propane pressure [bar] *	0,2	0,2 – 0,5
Propane consumption [kg/h]	0,49	0,77

* Flow pressure at the gas connector of the torch when valves are opened

Flat Head Cutting Torch Brenner 90



- Cutting range: up to 300 mm
- Provided with replaceable monoblock valves

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560):
oxygen G 1/4, fuel gas G 3/8 LH

The standard equipment contains cutting nozzles and heating nozzles with a cutting range up to 12 mm. Other types of equipment have to be ordered separately.

Other lengths and torch head angles are available on special request.

Head position	Total length approx.	Stock no.
90°	480 mm	01151

Flat Head Cutting Attachment MWW 520/1



Technical data

- Injector-type
- Fuel gas: acetylene
- Suitable for handle MWW 520/1 and Brenner 90 W

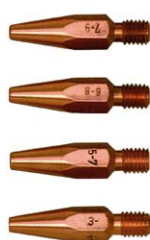
Head position	Type	Stock no.
90°	Lever valve	45000H
	Spindle valve	45000S

Consumption data and pressures for oxygen / acetylene

Material thickness [mm]	3 – 12	12 – 25	25 – 40	40 – 65	65 – 100	100 – 150	150 – 200
Cutting nozzle	HS 1	HS 2	HS 3	HS 4	HS 5	HS 6	HS 7
Oxygen pressure [bar] *	3,0	4,0	5,0	6,0	7,0	8,0	9,0
Heating oxygen consumption [m³/h]	1,2	1,5	1,8	2,1	2,4	2,7	3,0
Cutting oxygen consumption [m³/h]	1,5	3,4	4,8	8,4	12,0	17,0	29,0
Heating nozzle	HA 1	HA 1	HA 2	HA 2	HA 2	HA 3	HA 3
Acetylene pressure [bar] *	0,5	0,5	0,5	0,5	0,5	0,5	0,5
Acetylene consumption [m³/h]	1,1	1,35	1,6	1,9	2,2	2,5	2,7

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Nozzles for Flat Head Torch



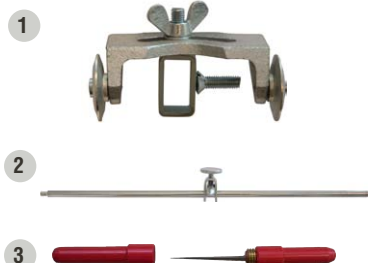
Type	Cutting range	Stock no.
HS 1	3 – 12 mm	40350
HS 2	12 – 25 mm	40360
HS 3	25 – 40 mm	40370
HS 4	40 – 65 mm	40380
HS 5	65 – 100 mm	40390
HS 6	100 – 150 mm	40400
HS 7	150 – 200 mm	40410

Heating Nozzles for Flat Head Torch



Type	Cutting range	Stock no.
HA 1	3 – 25 mm	40320
HA 2	25 – 100 mm	40330
HA 3	100 – 300 mm	40340

Accessories for Flat Head Torch



	Type	Description	Stock no.
1	Guide block (flat head)	For a uniform distance between head and work piece	39400
2	Radius Bar for guide block	For circular cuts with a diameter up to 700 mm	24500
3	Cone reamer	To ream cutting nozzles HS 1 to HS 8	03067

Information

For oxy-fuel cutting, the material (unalloyed steel with 0.3 % carbon max.) is heated with a heating flame at the cutting point until incandescence is reached.

When opening the cutting oxygen valve and moving the cutting torch forward at the same time, the oxygen stream blows the liquefied material out from the kerf.

The MWW flat head torches produce the heating flame and the cutting oxygen beam at two different nozzles. These torch types are suitable for thin-sheet cutting in particular. Thanks to their slim head shape, however, they can also be used for jobs in places that are difficult to access.

Cutting Torch Brenner 90

- Cutting range: up to 300 mm (**cutting nozzle K 1** included)
- Easy repair thanks to replaceable monoblock valves

Technical data

- Injector-type
- Fuel gases: acetylene, propane, natural gas (methane), alternative gases
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH

Head position	Total length approx.	Stock no.
Bent 90°	480 mm	01091
	600 mm	01091/60
	900 mm	01091/90
Bent 60°	480 mm	01101
	600 mm	01101/60
	900 mm	01101/90
Straight head	480 mm	01111
	600 mm	01111/60
	900 mm	01111/90

Cutting Attachment MWW 520/1 (Head Ø 28 mm)

- Cutting range: up to 300 mm

Technical data

- Injector-type
- Fuel gases: acetylene, propane, natural gas (methane)
- Suitable for handle MWW 520/1 and Brenner 90 W

Fuel gas	Total length approx.	Stock no.
Acetylene	300 mm	21701
	450 mm	21701-L
Propane, natural gas (methane)	300 mm	21702

Consumption data and pressures for oxygen / acetylene and oxygen / propane

Cutting range [mm]	5 – 15	15 – 30	30 – 60	60 – 100	100 – 200	200 – 300
Cutting nozzle	K 1	K 2	K 3	K 4	K 5	K 6
Oxygen pressure [bar] *	3,0	4,5	6,0	7,5	8,0	10,0
Heating oxygen consumption [m³/h]	1,2	1,7	2,1	2,4	2,5	3,0
Cutting oxygen consumption [m³/h]	1,5	3,0	5,0	10,0	15,0	25,0
Heating nozzle for acetylene	A 1	A 1	A 1	A 1	A 2	A 2
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,5	0,5
Acetylene consumption [m³/h]	1,1	1,2 – 1,6	1,3 – 1,7	1,4 – 1,8	1,8	1,8
Heating nozzle for propane	P 1	P 1	P 1	P 1	P 2	P 2
Propane pressure [bar] *	0,3	0,3	0,3	0,3	0,4	0,5
Propane consumption [kg/h]	0,6	0,8	1,3	1,6	2,0	2,4

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Nozzles



Cutting range		For heating nozzles	Stock no.	
			Copper	Brass
K 0	3 – 5 mm	A1, P1, Y1, M1	41250CU	41250MS
K 1	5 – 15 mm		41260CU	41260MS
K 2	15 – 30 mm		41270CU	41270MS
K 3	30 – 60 mm		41280CU	41280MS
K 4	60 – 100 mm		41290CU	41290MS
K 5	100 – 200 mm	A2, P2, Y2, M2	41300CU	41300MS
K 6	200 – 300 mm		41310CU	41310MS

Gouging Nozzles



Depth of joint		Width of joint	For heating nozzles	Stock no.	
				Copper	Brass
F 1	3 – 4 mm	8 – 10 mm	A1, P1, Y1, M1	40430CU	40430MS
F 2	4 – 6 mm	10 – 13 mm	A2, P2, Y2, M2	40440CU	40440MS
F 3	6 – 8 mm	13 – 18 mm		40450CU	40450MS

Heating Nozzles (Ø 28 mm)



Cutting range		Fuel gas	Stock no.
A 1	5 – 100 mm	Acetylene	37700
P 1		Propane	37750
A 2	100 – 300 mm	Acetylene	37710
P 2		Propane	37760
M 2		Natural gas (methane)	01742

Accessories and Repair Tools



Type	Description	Stock no.
1	StableCut Basis Kit	Mechanical sliding device for manual gas cutting 60195
2	Guide block (Ø 28 mm)	For a uniform distance between head and work piece 35730
3	Circular guide block (Ø 28 mm)	For circular cuts 35780
4	Cone reamer	To ream cutting nozzles K1 to K6 03067
5	Ream tool	For the seal face of the cutting nozzle 03065
6		For the seal face of the heating nozzle (Ø 28 mm) 03064
7	Ream tool (Brenner 90)	For the seal face of the cutting oxygen valve spindle 03066

Cutting Torch Brenner 90 Special

- Cutting range: 300 – 500 mm
- Injector torch for fuel gases: acetylene, propane, natural gas (methane)
- Hose connections (DIN EN 560): oxygen G 3/8, fuel gas G 3/8 LH



Head position	Total length approx.	Stock no.
Bent 90°	480 mm	01091SP
	600 mm	01091/60SP
	900 mm	01091/90SP

Consumption data and pressures for oxygen / acetylene, oxygen / propane and methane



	K 7 s	K 7 s	K 7 s
Cutting nozzle	A 3 (acetylene)	P 3 (propane)	M 3 (methane)
Heating nozzle			
Oxygen pressure [bar] *	14,0 – 18,0	14,0 – 18,0	14,0 – 18,0
Heating oxygen consumption [m³/h]	4,8	4,8	4,8
Cutting Oxygen consumption [m³/h]	55,0	55,0	55,0
Fuel gas pressure [bar] *	0,5 – 0,6	1,0 – 1,5	1,5
Fuel gas consumption [m³/h]	4,5	5,5	12,0

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Attachment MWW 520/1 Special

- Cutting range: 100 – 500 mm
- Injector torch for fuel gases: acetylene, propane, natural gas (methane)
- Suitable for handle MWW 520/1 Special



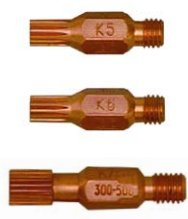
Cutting range	Fuel gas	Total length approx.	Stock no.
100 – 500 mm	Propane, natural gas (methane)	ca. 450 mm	21722

Consumption data and pressures for oxygen / acetylene and oxygen / propane

Cutting nozzle/gouging nozzle	K 5	K 6	K 7 s	F 2	F 3	F 4
Cutting range/width of joint [mm]	100 – 200	200 – 300	300 – 500	10 – 13	13 – 18	18 – 22
Oxygen pressure [bar] *	8,0	10,0	14,0 – 18,0	7,0	8,0	12,0
Heating oxygen consumption [m³/h]	2,5	3,0	4,8	2,1	2,5	3,9
Cutting oxygen consumption [m³/h]	15,0	25,0	55,0	10,0	17,0	23,0
Heating nozzle for acetylene	A 2	A 2	A 3	A 2	A 2	A 3
Acetylene pressure [bar] *	0,3	0,5	0,5 – 0,6	0,2 – 0,5	0,5	0,5
Acetylene consumption [m³/h]	2,3	2,6	4,5	1,9	2,3	3,6
Heating nozzle for propane	P 2	P 2	P 3	P 2	P 2	P 3
Propane pressure [bar] *	0,6	0,8	1,0 – 1,5	0,2 – 0,5	0,5	0,5
Propane consumption [kg/h]	5,0	6,0	11,0	4,8	5,7	8,9

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Nozzles



Cutting range		For heating nozzles	Stock no.	
			Copper	Brass
K 5	100 – 200 mm	A2, P2, Y2, M2	41300CU	41300MS
K 6	200 – 300 mm		41310CU	41310MS
K7s	300 – 500 mm	A3, P3, M3	41360CU	41360MS

Gouging Nozzles



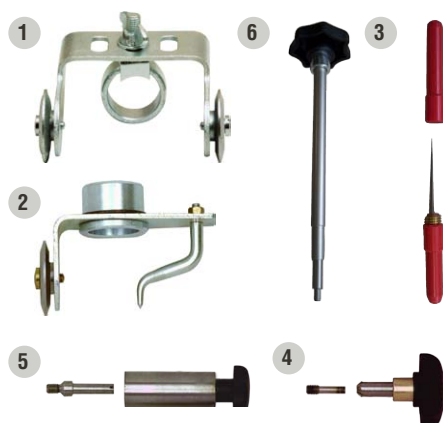
Depth of Joint		Width of joint	For heating nozzles	Stock no.	
				Copper	Brass
F 2	4 – 6 mm	10 – 13 mm	A2, P2, Y2, M2	40440CU	40440MS
F 3	6 – 8 mm	13 – 18 mm		40450CU	40450MS
F 4	8 – 12 mm	18 – 22 mm	A3, P3, M3	40455CU	40455MS

Heating Nozzles (Ø 28 mm)



	Cutting range	Fuel gas	Stock no.
A 2	100 – 300 mm	Acetylene	37710
P 2		Propane	37760
M 2		Natural gas (methane)	01742
A 3	300 – 500 mm	Acetylene	01750
P 3		Propane	01751

Accessories and Repair Tools



	Type	Description	Stock no.
1	Guide block (Ø 28 mm)	For a uniform distance between head and work piece	35730
2	Circular guide block (Ø 28 mm)	For circular cuts	35780
3	Cone reamer	To ream cutting nozzles K5 and K6	03067
4	Ream tool	For the seal face of the cutting nozzle	03065
5		For the seal face at the heating nozzle (Ø 28 mm)	03064
6	Ream tool (Brenner 90)	For the seal face of the cutting oxygen valve spindle	03066

Safety Advice



Due to the high cutting performance, fast reaction in the event of a flashback is paramount. A flashback announces itself through a whistling noise.

In this case, proceed as follows:

1. Close the oxygen valve
2. Close the fuel gas valve



Welding Attachments for Acetylene

- Suitable for handle MWW 520/1 (Special¹) and Brenner 90 W

Welding range	Stock no.	Welding range	Stock no.
0,5 – 1 mm	25221	9 – 14 mm	27571
1 – 2 mm	26611	14 – 20 mm	28101
2 – 4 mm	26271	20 – 30 mm	28591
4 – 6 mm	26771	30 – 50 mm ¹	20881
6 – 9 mm	27301	50 – 100 mm ¹	20891

Welding Nozzles for Acetylene

Welding range	Stock no.	Welding range	Stock no.
0,5 – 1 mm	05070	9 – 14 mm	07560
1 – 2 mm	05560	14 – 20 mm	08060
2 – 4 mm	06060	20 – 30 mm	08560
4 – 6 mm	06560	30 – 50 mm ¹	08552
6 – 9 mm	07070	50 – 100 mm ¹	08553

Consumption data and pressures for oxygen / acetylene

Welding range [mm]	1 – 2	2 – 4	4 – 6	6 – 9	9 – 14	14 – 20	20 – 30	30 – 50	50 – 100
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5	4,5
Oxygen consumption [m³/h]	0,17	0,30	0,55	0,80	1,20	1,90	2,50	4,10	7,10
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Acetylene consump. [m³/h]	0,16	0,28	0,51	0,73	1,10	1,75	2,30	3,50	6,00

* Flow pressure at the gas connector of the torch when valves are opened

Pipe Welding Attachments for Acetylene

- Suitable for handle Brenner 90 FG, MWW 520/1 and Brenner 90 W



Welding range	Stock no.	Welding range	Stock no.
1 – 2 mm	06191	4 – 6 mm	06740
2 – 4 mm	06240	6 – 9 mm	07270

Welding Nozzles for Pipe Welding Attachments



Welding range	Stock no.	Welding range	Stock no.
1 – 2 mm	06194	4 – 6 mm	06710
2 – 4 mm	06210	6 – 9 mm	07230

Bendable Welding Attachments for Acetylene

- Slightly bendable copper tube with brazed-on welding nozzle
- Suitable for handle Brenner 90 FG, MWW 520/1 and Brenner 90 W



Welding range	Stock no.
1 – 2 mm	10200
2 – 4 mm	10210

Welding range	Stock no.
4 – 6 mm	10220
6 – 9 mm	10230

Nozzles for Bendable Welding Attachments



Welding range	Stock no.
1 – 2 mm	10205
2 – 4 mm	10215

Welding range	Stock no.
4 – 6 mm	10225
6 – 9 mm	10235

Consumption data and pressures for oxygen / acetylene

Welding range [mm]	1 – 2	2 – 4	4 – 6	6 – 9
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5
Oxygen consumption [m³/h]	0,17	0,30	0,55	0,80
Acetylene pressure [bar] *	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5	0,2 - 0,5
Acetylene consumption [m³/h]	0,16	0,28	0,51	0,73

* Flow pressure at the gas connector of the torch when valves are opened



Multihole Brazing Attachment for Acetylene

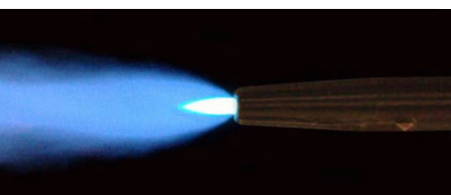
- Slightly bendable copper tube with brazed-on multi-flame nozzle
- Suitable for handle Brenner 90 FG, MWW 520/1 and Brenner 90 W

Working range	Flame holes	Stock no.
1 – 2 mm	4	10240
2 – 4 mm	4	10250

O-Rings for Welding and Heating Attachments



Type	Description	Stock no.
O-ring 6 x 2 mm	O-ring for the seal face at the pressure nozzle	40200
O-ring 14 x 2 mm	O-ring for the seal face at the mixing nozzle	40280



Welding Attachments for Propane

- The oxidising effect of the flame is reduced through the use of a manganese-silicon-containing filler metal

Welding range	Stock no.
0,5 – 2 mm	25152
2 – 4 mm	26152

Welding range	Stock no.
4 – 6 mm	26652
6 – 9 mm	27152

Welding Nozzles for Propane

Welding range	Stock no.
0,5 – 2 mm	05160
2 – 4 mm	06160

Welding range	Stock no.
4 – 6 mm	06660
6 – 9 mm	07160

Consumption data and pressures for oxygen / propane

Welding range [mm]	0,5 – 2 mm	2 – 4 mm	4 – 6 mm	6 – 9 mm
Oxygen pressure [bar] *	2,5	2,5	2,5	4,0
Oxygen consumption [m³/h]	0,17	0,30	0,55	0,80
Propane pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Propane consumption [kg/h]	0,06	0,14	0,34	0,52

* Flow pressure at the gas connector of the torch when valves are opened

Heating Attachments for Propane

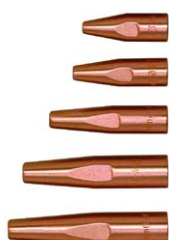
- Copper flame heating nozzle with a central hole



Working range	Stock no.
0,5 – 1 mm	25222
1 – 2 mm	26612
2 – 4 mm	26272
4 – 6 mm	26772

Working range	Stock no.
6 – 9 mm	27302
9 – 14 mm	27572
14 – 20 mm	28102
20 – 30 mm	28592

Heating Nozzles for Propane



Working range	Stock no.
0,5 – 1 mm	05072
1 – 2 mm	05562
2 – 4 mm	06062
4 – 6 mm	06562

Working range	Stock no.
6 – 9 mm	07072
9 – 14 mm	07551
14 – 20 mm	08051
20 – 30 mm	08551

Welding Attachments for Hydrogen

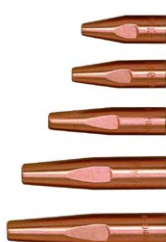
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- Copper flame heating nozzle with a central hole

Working Range	Stock no.	Working Range	Stock no.
0,5 – 1 mm	25224	6 – 9 mm	27304
1 – 2 mm	26614	9 – 14 mm	27574
2 – 4 mm	26274	14 – 20 mm	28104
4 – 6 mm	26774	20 – 30 mm	28594

Welding Nozzles for Hydrogen



Working Rang	Stock no.	Working Rang	Stock no.
0,5 – 1 mm	05074	6 – 9 mm	07074
1 – 2 mm	05574	9 – 14 mm	07574
2 – 4 mm	06074	14 – 20 mm	08074
4 – 6 mm	06574	20 – 30 mm	08574

Consumption data and pressures for propane / oxygen and hydrogen / oxygen

Welding range [mm]	0,5 – 1	1 – 2	2 – 4	4 – 6	6 – 9	9 – 14	14 – 20	20 – 30
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Oxygen consumption [m³/h]	0,09	0,17	0,30	0,55	0,80	1,20	1,90	2,50
Propane pressure [bar] *	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5
Propane consumption [kg/h]	0,06	0,06	0,14	0,34	0,52	0,76	1,10	1,60
Hydrogen pressure [bar] *	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5	0,2–0,5
Hydrogen consumption [m³/h]	0,22	0,43	0,75	1,38	2,00	3,00	4,75	6,25

* Flow pressure at the gas connector of the torch when valves are opened

Accessories for Welding Jobs



Type	Description	Stock no.
Protection goggles	With dark glasses	00070
	Hinged (light and dark glasses)	00075
Gas lighter	With exchangeable flat file, flint included	00060
	With exchangeable roller file, flint included	00065
Nozzle cleaning set	for cleaning the welding nozzles	03031

O-Rings for Welding and Heating Attachments



Type	Description	Stock no.
O-ring 6 x 2 mm	O-ring for the seal face at the pressure nozzle	40200
O-ring 14 x 2 mm	O-ring for the seal face at the mixing nozzle	40280



Heating Attachments with Multihole Nozzles

- Copper preheating nozzle with several holes arranged in a circle and inclined outward

Technical data

- Fuel gases: acetylene, propane



Acetylene

Working Range	Stock no.
1 – 2 mm	20911
2 – 4 mm	20921
4 – 6 mm	20961
6 – 9 mm	20971
9 – 14 mm	20931
14 – 20 mm	20941
20 – 30 mm	20951
30 – 50 mm ¹	20861
50 – 100 mm ¹	20871

Propane

Working range	Stock no.
1 – 2 mm	20912
2 – 4 mm	20922
4 – 6 mm	20962
6 – 9 mm	20972
9 – 14 mm	20932
14 – 20 mm	20942
20 – 30 mm	20952
30 – 50 mm ¹	20862
50 – 100 mm ¹	20872

¹ These attachments require the handle MWW 520/1 Special

Multihole Nozzles for Heating Attachments



Acetylene

Working range	Stock no.
1 – 2 mm	20995
2 – 4 mm	20994
4 – 6 mm	20993
6 – 9 mm	20992
9 – 14 mm	20991
14 – 20 mm	08070
20 – 30 mm	08570
30 – 50 mm ¹	21031
50 – 100 mm ¹	21051

Propane

Working range	Stock no.
1 – 2 mm	21006
2 – 4 mm	21005
4 – 6 mm	21004
6 – 9 mm	21003
9 – 14 mm	21002
14 – 20 mm	21012
20 – 30 mm	21022
30 – 50 mm ¹	21042
50 – 100 mm ¹	21062

Consumption data and pressures for oxygen / acetylene and oxygen / propane

Welding range [mm]	1 – 2	2 – 4	4 – 6	6 – 9	9 – 14	14 – 20	20 – 30	30 – 50	50 – 100
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3,5	4,5
Oxygen consumption [m³/h]	0,17	0,30	0,55	0,80	1,20	1,90	2,50	4,10	7,10
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Acetylene consumption [m³/h]	0,16	0,28	0,51	0,73	1,10	1,75	2,30	3,50	6,00
Propane pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Propane consumption [kg/h]	0,06	0,14	0,34	0,52	0,76	1,10	1,60	2,40	4,00

* Flow pressure at the gas connector of the torch when valves are opened



Heating Attachments for Alternative Gases

Technical data

- Copper preheating nozzle with a central hole and several circularly arranged holes
- Fuel gases: ethylene, propylene, natural gas (methane), propane

Link cylinders:

- From working range equal or bigger than 20–30 mm
- Fuel gas consumption depends on the mixing ratio of oxygen and fuel gas



Type	Working range	Stock no.
F-AWD 2	20 – 30 mm	38915
F-AWD 4	50 – 100 mm ¹	38935
F-AWD 6	150 – 200 mm ¹	38955

¹ These attachments require the handle MWW 520/1 Special.

Heating Nozzles for Alternative Gases

Technical data

- Fuel gases: ethylene, propylene, natural gas (methane), propane



Type	Working range	Stock no.
F-AWD 2	20 – 30 mm	38911
F-AWD 4	50 – 100 mm ¹	38931
F-AWD 6	150 – 200 mm ¹	38951

Consumption data and pressures for oxygen / alternative gases

Heating nozzle	F-AWD 2	F-AWD 4	F-AWD 6
Working range [mm]	20 – 30	50 – 100	150 – 200
Oxygen pressure [bar] *	2,5	4,5	6,0
Oxygen consumption [m³/h]	2,40	8,40	20,50
Fuel gas pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Ethylene [m³/h]	1,20	4,20	10,25
Propylene [m³/h]	0,77	2,71	6,61
Methane (natural gas) [m³/h]	1,33	4,67	11,39
Propane [kg/h]	1,12	3,93	9,59

* Flow pressure at the gas connector of the torch when valves are opened



Heating Attachments with Two-Piece Nozzle

- Brass preheating nozzle with several holes arranged axially in several partial circles

Technical data

- Fuel gas: acetylene

Heating attachment with nozzle

Working range	Stock no.
14 – 20 mm	20852
20 – 30 mm	20853
30 – 50 mm ¹	20854
50 – 100 mm ¹	20855

Two-piece nozzle

Working range	Stock no.
14 – 20 mm	21013
20 – 30 mm	21023
30 – 50 mm ¹	21033
50 – 100 mm ¹	21053

¹ These attachments require a handle MWW 520/1 Special



Consumption data and pressures for oxygen / acetylene

Working range [mm]	20 – 30	30 – 50	50 – 100
Oxygen pressure [bar] *	2,5	3,5	4,5
Oxygen consumption [m³/h]	2,5	4,1	7,1
Oxygen consumption [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Acetylene consumption [m³/h]	2,3	3,5	6,0

* Flow pressure at the gas connector of the torch when valves are opened



Flame Cleaning Attachments for Acetylene

- To prepare steel surfaces, as well as cast stone or natural stone
- To remove rust, paint and dirt residues or blast off particles

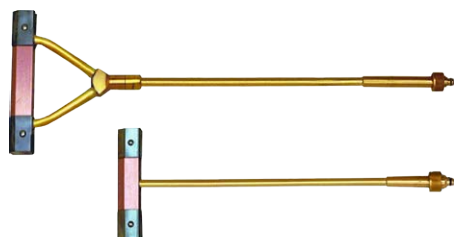
Technical Data

- Fuel gas: acetylene
- Other fuel gases: only on request

Head width	Stock no.
60 mm	20611
100 mm	20621

Head width	Stock no.
150 mm	20631
200 mm ¹	20641

¹ These attachments require the handle MWW 520/1 Special



Consumption data and pressures for oxygen / acetylene

Head width [mm]	60	100	150	200
Oxygen pressure [bar] *	2,5	2,5	2,5	3,5
Oxygen consumption [m³/h]	1,40	2,40	2,80	6,85
Acetylene pressure [bar] *	0,5	0,5	0,5	0,5
Acetylene consumption [m³/h]	1,30	2,20	2,50	6,50

* Flow pressure at the gas connector of the torch when valves are opened

Flame Straightening Attachments

- To correct deformations of workpieces
- For a thickness up to 3 mm, the range selection equals the selection when welding, for thicker sheets the thickness is multiplied by 2 – 2.5

Technical data

- Fuel gas: acetylene
- 30 mm nozzle distance, adjustable wheel holders



Type	Nozzle size	Mixing tube length	Stock no.
1 brass mixing tube	4 – 6 mm (2-fold)	400 mm	20510
		750 mm	20515
	4 – 6 mm (3-fold)	400 mm	20520
		750 mm	20525



Type	Nozzle size	Mixing tube length	Stock no.
2 stainless steel tubes	2 – 4 mm (3-fold)	500 mm	20525/11
		750 mm	20525/8
	4 – 6 mm (3-fold)	500 mm	20525/12
		750 mm	20525/9
	6 – 9 mm (3-fold)	500 mm	20525/13
		750 mm	20525/10



Type	Nozzle size	Mixing tube length	Stock no.
stainless steel, disengageable	2 – 4 mm (3/2-fold)	500 mm	20545/11
		750 mm	20545/8
	4 – 6 mm (3/2-fold)	500 mm	20545/12
		750 mm	20545/9
	6 – 9 mm (3/2-fold)	500 mm	20545/13
		750 mm	20545/10

Nozzles for Flame Straightening Attachments



Working range	Stock no.	Working range	Stock no.
2 – 4 mm	06060	6 – 9 mm	07070
4 – 6 mm	06560		

Consumption data and pressures for oxygen / acetylene

Flame straightening attachment	2-fold	3-fold	3-fold	3-fold
Working range [mm]	4 – 6	2 – 4	4 – 6	6 – 9
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5
Oxygen consumption [m³/h]	1,10	0,9	1,65	2,4
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Acetylene consumption [m³/h]	1,02	0,84	1,53	2,19

* Flow pressure at the gas connector of the torch when valves are opened

Handle Brenner 90 FG



- The lower slope of the valves makes it easier to adjust oxygen and fuel gas levels
- This is very useful for educational institutions

Technical data

- For welding and brazing attachments up to 9 – 14 mm
- Fuel gases: acetylene, propane, natural gas (methane), alternative gases
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH

Hose coupling nipples/coupl. nuts	Attachment coupling nut 00010	Stock no.
Not included	Not included	21450/1

Handle Brenner 90 W



- Provided with replaceable monoblock valves
- Low weight and ergonomic shape which facilitates handling suitable for all MWW attachments

- For cutting attachments with a cutting range up to 300 mm
- Fuel gases: acetylene, propane, natural gas (methane), alternative gases
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH

Technical data

- For welding, heating and flame straightening attachments up to working range 20 – 30 mm

Hose coupling nipples/coupl. nuts	Attachment coupling nut 00010	Stock no.
Not included	Not included	21150/1

Handle MWW 520/1



- Like handle Brenner 90 W, but with valves pasted into the handle

Technical data

- For welding, heating and flame straightening attachments up to working range 20 – 30 mm

- For cutting attachments with a cutting range up to 300 mm
- Fuel gases: acetylene, propane, natural gas (methane), alternative gases
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH

Type	Coupl. nip./coupl. nuts	Attachment coupl. nut	Stock no.
With standard valve	Not included	Not included	40700/1
With rapid-action valve	Not included	Not included	21240/1

Handle MWW 520/1 Special



- Special version of the handle, which allows a higher oxygen flow rate
- With rapid-action oxygen valve
- For cutting attachments with a cutting range from 300 mm – 500 mm
- Fuel gases: acetylene, propane, natural gas (methane), alternative gases
- Hose connections (DIN EN 560): oxygen G 3/8, fuel gas G 3/8 LH

Technical data

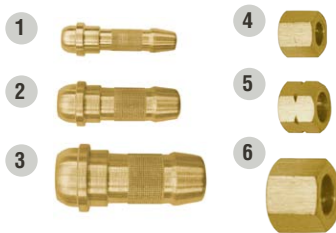
- For welding, heating and flame straightening attachments from working range 30 – 50 mm

Type	Coupl. nip./coupl. nuts	Attachment coupl. nut	Stock no.
With rapid-action valve	Not included	Not included	21241/1

Accessories for Handles



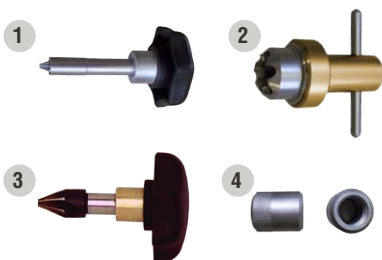
Type	Description	Stock no.
1 Coupling nut	To connect attachment with the handle	00010
2 Coupling pin D1	For oxygen connector G 1/4	60245
	For fuel gas connector G 3/8 LH	60255
3 Rapid connector DKG	For rapid oxygen connector	60230
	For rapid fuel gas connector	60235



Hose Coupling Nipples and Coupling Nuts

Coupling nipple	Stock no.	Coupling nut	Stock no.
1 6,3 mm	01080	4 G 1/4	01100
6,3 mm, shouldered	01280	G 3/8	01290
2 9 mm	01090	5 G 3/8 LH	01110
3 13 mm	01086	6 G 1/2	01120

Repair Tools for MWW Handles



Type	Description	Stock no.
1 Ream tool	For the seal face at the valve spindle	03050
2 Thread-cutting die	To rework the threaded oxygen connector G 1/4	03083
	To rework the threaded oxygen connector G 3/8 LH	03084
3 Cone reamer	To ream the 45° cone at the gas connector	03080
4 Guide bushing	For cone reamer 03080 for oxygen G 1/4	03080/1
	For cone reamer 03080 for fuel gas G 3/8 LH	03080/2



Machine Cutting Torch for GM Nozzles

- Shaft diameter 32 mm
- Without valves and nozzles, suitable for all nozzles at page 9

Oxygen connector	Fuel gas connector	Cutting oxy. connector	Stock no.
G 3/8	G 3/8 LH	G 3/8	On request



Gas Mixing Cutting Nozzle Extra Long

- For machine cutting torch, length: approx. 250 mm

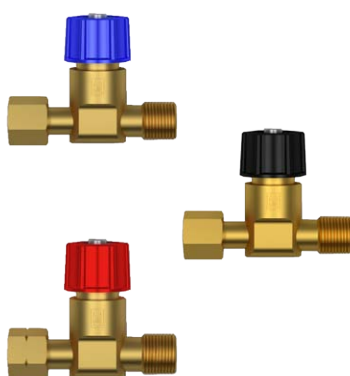
Cutting range	Fuel gas	Stock no.
5 – 15 mm	Propane / methane	66110
15 – 30 mm	Propane / methane	66120
30 – 60 mm	Propane / methane	66130



Machine Shaft for Fixed Mounting

- Suitable for all MWW heating and flame straightening attachments

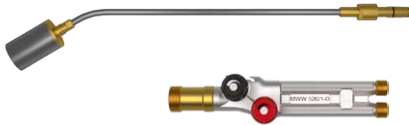
Shaft	Oxygen connector	Fuel gas connector	Stock no.
18 mm (MWW standard)	G 3/8	G 3/8 LH	66000



Regulation Valves for Machine Shafts

- For regulating the gas flow at the machine shaft

Gas type	Inlet connection	Outlet connection	Stock no.
Oxygen	G 3/8	Nipple with nut G 3/8	66010
Compressed air	G 3/8	Nipple with nut G 3/8	66030
Acetylene	G 3/8 LH	Nipple with nut G 3/8 LH	66050
Propane / methane	G 3/8 LH	Nipple with nut G 3/8 LH	66070



Preheating Set for Compressed Air / Fuel Gas

- Cup-shaped single-hole nozzle with extensive flame
- Can be used for defrosting, drying or warming sheet metals before, during or after the welding process
- Handle MWW 520/1-D for compressed air / fuel gas included
- Hose connections (DIN EN 560): compressed air G 3/8, fuel gas G 3/8 LH

Technical data

- Fuel gases: propane, natural gas (methane)

Type	Description	Stock no.
Preheating set PMD 3	Complete with preheating attachment and handle	61700
Preheating attachment PMD 3		61500
Handle MWW 520/1-D	Without hose coupling nipples / coupling nuts	61000

Professional Preheating Set for Propane



Contains

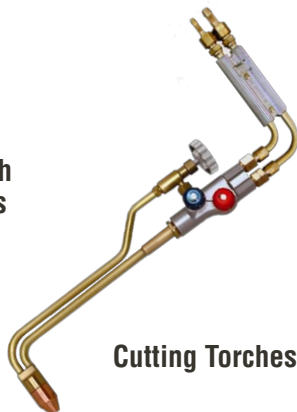
- Propane handle
- With low pressure regulator (combi-connector)
- Connection tube 600 mm
- Torch head (see table)
- Depot equipment
- High pressure hose 6.3 x 5 with coupling
- Nuts G 3/8 LH x 5 m on both sides
- Hose break safety device 12 kg/h

Low pressure regulator type	Torch head diameter	Stock no.
With combi-connector	Ø 60 mm	69200

Special Burners



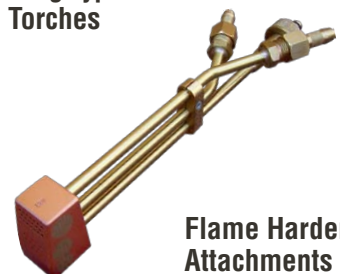
Forked Torch Attachments



Cutting Torches



Ring-type Torches



Flame Hardening Attachments



Standard Product Range with Shaft Diameter of 17 mm

For higher flexibility and compatibility with other burner systems, for cutting, welding, flame heating or flame straightening with acetylene and propane.



Welding Kit Standard Equipment D17

NEW

Welding kit with shaft of 17 mm. Suitable for welding, cutting, flame heating, torch soldering and flame straightening for low working ranges.

Contains

- 1 handle MWW D17
- 4 welding attachments
- 1 cutting attachment with lever valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 steel sheet box

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560):
oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Handle	Stock no.
0,5 – 6 mm	5 – 60 mm	MWW 520/1	17020
1 – 9 mm	5 – 60 mm	MWW 520/1	17020A



Welding Kit UAG D17

NEW

Welding kit with shaft of 17 mm. Suitable for welding, cutting, flame heating, soldering and flame straightening.

Contains

- 1 handle MWW D17
- 6 or 8 welding attachments
- 1 cutting attachment with lever or spindle valve
- 1 multiple wrench
- 1 nozzle cleaning set
- 1 nozzle case
- 1 protection goggles
- 1 guide block
- 1 radius bar for circular cuts
- 1 gas lighter
- 1 steel sheet box

Technical data

- Injector-type
- Fuel gas: acetylene
- Hose connections (DIN EN 560):
oxygen G 1/4, acetylene G 3/8 LH

Welding range	Cutting range	Cutting attachment	Handle	Stock no.
0,5 – 14 mm	5 – 100 mm	mit Hebelventil	MWW 520/1	17010
0,5 – 30 mm	5 – 300 mm	mit Hebelventil	MWW 520/1	17010A

Handle MWW D17

NEW


- Like handle Brenner 90 W, but with valves pasted into the handle

Technical data

- For welding, heating and flame straightening attachments up to working range 20 – 30 mm
- For cutting attachments with a cutting range up to 300 mm
- Fuel gases: acetylene, propane
- Hose connections (DIN EN 560): oxygen G 1/4, fuel gas G 3/8 LH

Coupling nipples / coupling nuts	Attachment coupling nut	Stock no.
Not included	Not included	17900



Type	Description	Stock no.
Coupling nut	For mounting the attachment to the handle	17905

Accessories for Welding Jobs



Type	Description	Stock no.
Multiple wrench	With 8 spanner sizes from 8 mm up to 24 mm	40480
Protection goggles	With dark glasses	00070
	Hinged (light and dark glasses)	00075
Gas lighter	With exchangeable flat file, flint included	00060
	With exchangeable roller file, flint included	00065
Nozzle cleaning set	For cleaning the welding nozzles	03031



Cutting Attachment MWW D17

NEW

Technical data

- Injector-type
- Cutting range: up to 300 mm
- **Cutting nozzle K 1** included
- Fuel gases: acetylene (standard), propane
- Suitable for handle MWW D17

Head position	Total length approx.	Type	Stock no.
90°	250 mm	Lever valve	17700
Bent 90°	250 mm	Lever valve	17710
Straight head	300 mm	Lever valve	17720



Flame Gouging Attachment MWW D17

NEW

Technical data

- For preparing seams with special shapes or for reworking weld seams
- **Gouging nozzle F 1** included
- Injector-type
- Fuel gases: acetylene, propane
- Suitable for handle MWW D17

Head position	Total length approx.	Type	Stock no.
Bent 60°	250 mm	Lever valve	17790
Bent 30°	250 mm	Lever valve	17780
Straight head	300 mm	Lever valve	17770

Consumption data and pressures for oxygen / acetylene and oxygen / propane

	Cutting nozzle						Gouging nozzle		
	K 1	K 2	K 3	K 4	K 5	K 6	F 1	F 2	F 3
Cutting range [mm]	5 – 15	15 – 30	30 – 60	60 – 100	100 – 200	200 – 300			
Depth and width of joint [mm]							3/4;8/10	4/6;10/13	6/8;13/18
	K 1	K 2	K 3	K 4	K 5	K 6	F 1	F 2	F 3
Oxygen pressure [bar] *	3,0	4,5	6,0	7,5	8,0	10,0	6,0	7,0	8,0
Heating oxygen consumption [m³/h]	0,6	0,7	0,9	1,0	1,2	1,5	0,8	0,9	1,1
Cutting oxygen consumption [m³/h]	1,5	3,0	5,0	10,0	15,0	25,0	6,5	10,0	17,0
Heating nozzle for acetylene	A 1	A 1	A 1	A 1	A 2	A 2	A 1	A 2	A 2
Acetylene pressure [bar] *	0,5	0,5	0,5	0,5	0,5	0,5	0,2 – 0,5	0,2 – 0,5	0,5
Acetylene consumption [m³/h]	0,55	0,65	0,8	0,9	1,0	1,3	0,7	0,8	1,0
Heating nozzle for propane	P 1	P 1	P 1	P 1	P 2	P 2	P 1	P 2	P 2
Propane pressure [bar] *	0,5	0,5	0,5	0,5	0,5	0,5	0,2 – 0,5	0,2 – 0,5	0,5
Propane consumption [kg/h]	0,3	0,35	0,4	0,5	0,7	0,8	0,5	0,52	0,6

* Flow pressure at the gas connector of the torch when valves are opened

Cutting Nozzles for MWW D17



Cutting range		Suitable heating nozzles	Stock no.	
			Copper	Brass
K 0	3 – 5 mm	A1, P1, Y1, M1	41250CU	41250MS
K 1	5 – 15 mm		41260CU	41260MS
K 2	15 – 30 mm		41270CU	41270MS
K 3	30 – 60 mm		41280CU	41280MS
K 4	60 – 100 mm	A2, P2, Y2, M2	41290CU	41290MS
K 5	100 – 200 mm		41300CU	41300MS
K 6	200 – 300 mm		41310CU	41310MS

Gouging Nozzles for MWW D17



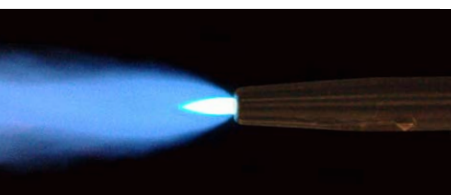
Depth of joint		Width of joint	For heating nozzles	Stock no.	
				Copper	Brass
F 1	3 – 4 mm	8 – 10 mm	A1, P1, Y1, M1	40430CU	40430MS
F 2	4 – 6 mm	10 – 13 mm	A2, P2, Y2, M2	40440CU	40440MS
F 3	6 – 8 mm	13 – 18 mm		40450CU	40450MS

Heating Nozzles for Cutting Attachments MWW D17



Heating nozzle	Cutting range	Fuel gas	Stock no.	
			Ø 18 mm	Ø 24 mm
A 1	3 – 100 mm	Acetylene	40300	37720
P 1		Propane	40520	37740
Y 1		Ethylene, MPS	40305	-
A 2	100 – 300 mm	Acetylene	40310	37730
P 2		Propane	40530	-

Type	Description	Stock no.
Coupling nut	For mounting the heating nozzle (Ø 18 mm) on the head	40070



Welding Attachments D17 for Acetylene

NEW

- Suitable for handle MWW D17

Welding range	Stock no.
0,5 – 1 mm	17100
1 – 2 mm	17110
2 – 4 mm	17120
4 – 6 mm	17130

Welding range	Stock no.
6 – 9 mm	17140
9 – 14 mm	17150
14 – 20 mm	17160
20 – 30 mm	17170

Welding Nozzles for Acetylene

Welding range	Stock no.
0,5 – 1 mm	05070
1 – 2 mm	05560
2 – 4 mm	06060
4 – 6 mm	06560

Welding range	Stock no.
6 – 9 mm	07070
9 – 14 mm	07560
14 – 20 mm	08060
20 – 30 mm	08560

Bendable Welding Attachments D17 for Acetylene

- Suitable for handle MWW D17

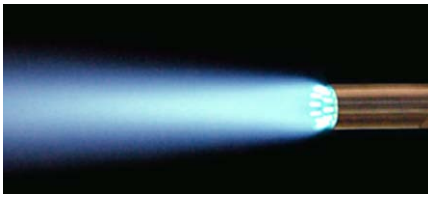
Welding range	Stock no.
1 – 2 mm	17210
2 – 4 mm	17220

Welding range	Stock no.
4 – 6 mm	17230
6 – 9 mm	17240

Nozzles for Bendable Welding Attachments

Welding range	Stock no.
1 – 2 mm	10205
2 – 4 mm	10215

Welding range	Stock no.
4 – 6 mm	10225
6 – 9 mm	10235



Heating Attachments D17

NEW

- Copper preheating nozzle with several holes arranged in a circle and inclined outward

Technical data

- Fuel gases: acetylene, propane



Acetylene

Working range	Stock no.
1 – 2 mm	17300
2 – 4 mm	17310
4 – 6 mm	17320
6 – 9 mm	17330
9 – 14 mm	17340
14 – 20 mm	17350
20 – 30 mm	17360

Propane

Working range	Stock no.
1 – 2 mm	17300P
2 – 4 mm	17310P
4 – 6 mm	17320P
6 – 9 mm	17330P
9 – 14 mm	17340P
14 – 20 mm	17350P
20 – 30 mm	17360P

Multihole Nozzles for Heating Attachments



Acetylene

Working range	Stock no.
1 – 2 mm	20995
2 – 4 mm	20994
4 – 6 mm	20993
6 – 9 mm	20992
9 – 14 mm	20991
14 – 20 mm	08070
20 – 30 mm	08570

Propane

Working range	Stock no.
1 – 2 mm	21006
2 – 4 mm	21005
4 – 6 mm	21004
6 – 9 mm	21003
9 – 14 mm	21002
14 – 20 mm	21012
20 – 30 mm	21022

Consumption data and pressures for oxygen / alternative gases

Working range [mm]	1 – 2	2 – 4	4 – 6	6 – 9	9 – 14	14 – 20	20 – 30
Oxygen pressure [bar] *	2,5	2,5	2,5	2,5	2,5	2,5	2,5
Oxygen consumption [m³/h]	0,17	0,30	0,55	0,80	1,20	1,90	2,50
Acetylene pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Acetylene consumption [m³/h]	0,16	0,28	0,51	0,73	1,10	1,75	2,30
Propane pressure [bar] *	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5	0,2 – 0,5
Propane consumption [kg/h]	0,06	0,14	0,34	0,52	0,76	1,10	1,60

* Flow pressure at the gas connector of the torch when valves are opened

Oxy-fuel Twin Hoses with Connections

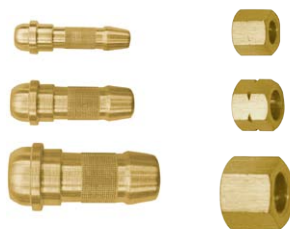
- Twin hose with hose holders, with connections



Gasart	Type	Dimensions (inner-Ø)	Stock no.
Oxygen / acetylene	10 m, with connections	6 mm / 9 mm	60960K-10
	20 m, with connections		60960K-20
	30 m, with connections		60960K-30
	40 m, with connections		60960K-40
Oxygen / propane	10 m, with connections	6 mm / 9 mm	60970K-10
	20 m, with connections	6 mm / 9 mm	60970K-20
	30 m, with connections	6 mm / 9 mm	60970K-30
	40 m, with connections	6 mm / 9 mm	60970K-40

Twin Hose for Oxygen / Acetylene

Gas type	Type	Dimensions (inner-Ø)	Stock no.
Oxygen / acetylene	10 m, with connections	4 mm / 4 mm	60914K-10
	10 m, with connections	6 mm / 6 mm	60916K-10
	10 m, with connections	6 mm / 9 mm	60910K-10
	20 m, with connections	6 mm / 9 mm	60910K-20
	30 m, with connections	6 mm / 9 mm	60910K-30
	40 m, with connections	6 mm / 9 mm	60910K-40



Hose Coupling Nipples and Coupling Nuts

Coupling nipple	Stock no.
6,3 mm	01080
6,3 mm, shouldered	01280
9 mm	01090
13 mm	01086

Coupling nut	Stock no.
G 1/4	01100
G 3/8	01290
G 3/8 LH	01110
G 1/2	01120

Hose Connectors



Type	Gas type	Hose connection	Stock no.
Hose coupling	Oxygen	6 mm / G 1/4	20001
	Fuel gas	9 mm / G 3/8 LH	21001
Double threaded union	Oxygen	6 mm / G 1/4	50044
	Fuel gas	9 mm / G 3/8 LH	50046
Hose coupling nipple	Oxygen, fuel gas	6 mm / -	60601
	Oxygen, fuel gas	9 mm / -	60602

Accessories for Gas Hoses

Type	Description	Stock no.
Hose holder, zinc coated steel	For twin hose 16 × 16 mm	60522
Coupling pin D2	For oxygen, hose side mounting	60215
	For fuel gas, hose side mounting	60225
Coupling pin D4	For oxygen, threaded connection, G 1/4	60260
	For fuel gas, threaded connection, G 3/8 LH	60265
Rapid connector DKT	For oxygen, with automatic gas cut-off	60240
	For fuel gas, with automatic gas cut-off	60250
Rapid connector DKG	For rapid oxygen connector	60230
	For rapid fuel gas connector	60235

Safety Devices

- For torch side or hose side protection



Type	Description	Stock no.
Model DGN	For oxygen, up to cutting range 200 mm	60110
	For fuel gas, up to cutting range 200 mm	60120
Model DG 91 N	For oxygen with higher flow rates, with flashback arrestor	60112
	For fuel gas with higher flow rates, with flashback arrestor	60122
Model DGN-DK	For oxygen, combined with rapid connector	60115
	For fuel gas, combined with rapid connector	60125

Gas Safety Devices Overview



D1



DKG

DKT



D4

D2



DGN-DK

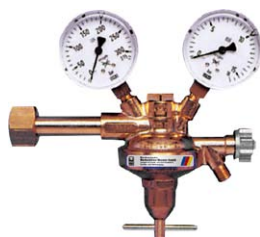
DG 91 N

DKD

DGN



Pressure Reducer for Oxygen

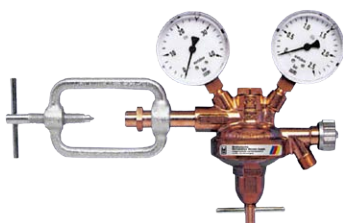


Technical data

- Single-stage type
- For 200 bar (EN ISO 2503)
- Cylinder pressure gauge: 0 – 315 / 200 bar
- Working pressure gauge: 0 – 16 / 10 bar
- Back pressure adjustable: 0 – 10 bar
- Flow rate: up to 50 Nm³/h

Cylinder connection	Hose connection	Stock no.
G 3/4	G 1/4	63210

Pressure Reducer for Acetylene

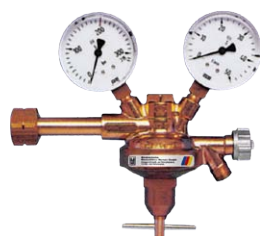


Technical data

- Single-stage type
- EN ISO 2503
- Cylinder pressure gauge: 0 – 40 bar
- Working pressure gauge: 0 – 2,5 / 1,5 bar
- Back pressure adjustable: 0 – 1,5 bar
- Flow rate: up to 8 Nm³/h

Cylinder connection	Hose connection	Stock no.
Strap connector	G 3/8 LH	63220

Pressure Reducer for Propane

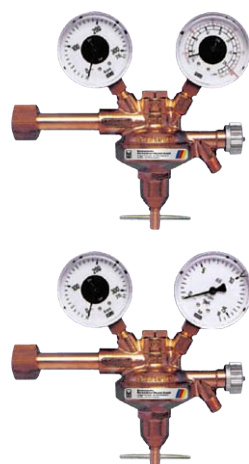


Technical data

- Single-stage type
- Only suitable for 33 kg cylinders
- EN ISO 2503
- Cylinder pressure gauge: 0 – 40 / 20 bar
- Back pressure: 0 – 3,5 bar

Cylinder connection	Hose connection	Stock no.
W 21,8 × 1/14 LH	G 3/8 LH	63230

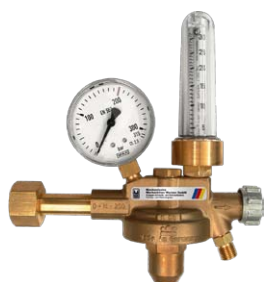
Pressure Reducer for Argon / CO₂



Technical data

- Single-stage type
- For 200 bar (EN ISO 2503)
- Back pressure adjustable
- Cylinder pressure gauge: 0 – 315 / 200 bar

Working pressure gauge	Cylinder connection	Hose connection	Stock no.
Double scale 0 – 30/28 l/min	W 21,8 × 1/14	G 1/4	63240
Bar scale 0 – 10 bar	W 21,8 × 1/14	G 1/4	63242

**Technical data**

- For 200 bar (EN ISO 2503)
- Flow rate: 5 – 16 l/min

Cylinder connection	Hose connection	Stock no.
W 21,8 × 1/14	G 1/4	63245

Accessories for Pressure Reducers

- Diameter: 63 mm, connection: G 1/4



Type	Gas type	Indicating range	Stock no.
Cylinder pressure gauge	Oxygen	315 / 200 bar	00141
	Acetylene	40 bar	00151
	Neutral	315 / 200 bar	00145
Working pressure gauge	Oxygen	16 / 10 bar	00147
	Acetylene	2,5 / 1,5 bar	00157
	Argon / CO ₂	0 – 30 / 28 l/min	00144



Type	Description	Stock no.
Protective rubber cap (Ø 63 mm)	Blue	00198BLAU
	Red	00198ROT
Protective grid for pressure reducers	Blue	00199BLAU
	Yellow	00199GELB
Rapid connector DKD	For oxygen	60210
	For fuel gas	60220

**Low Pressure Regulator for Liquid Gas**

- Back pressure adjustable: 0,5 – 6 bar
- Flow rate: 18 kg/h

Type	Cylinder connection	Hose connection	Stock no.
With gauge	Combi-connector *	G 3/8 LH	64310

* also suitable for 33 kg cylinders

**Double Extraction Valve for Pressure Reducers**

Gas type	Threaded connection	Hose connection	Stock no.
Oxygen	G 1/4	2 x G 1/4	00149
Acetylene	G 3/8 LH	2 x G 3/8 LH	00159

Notes

Contact Us

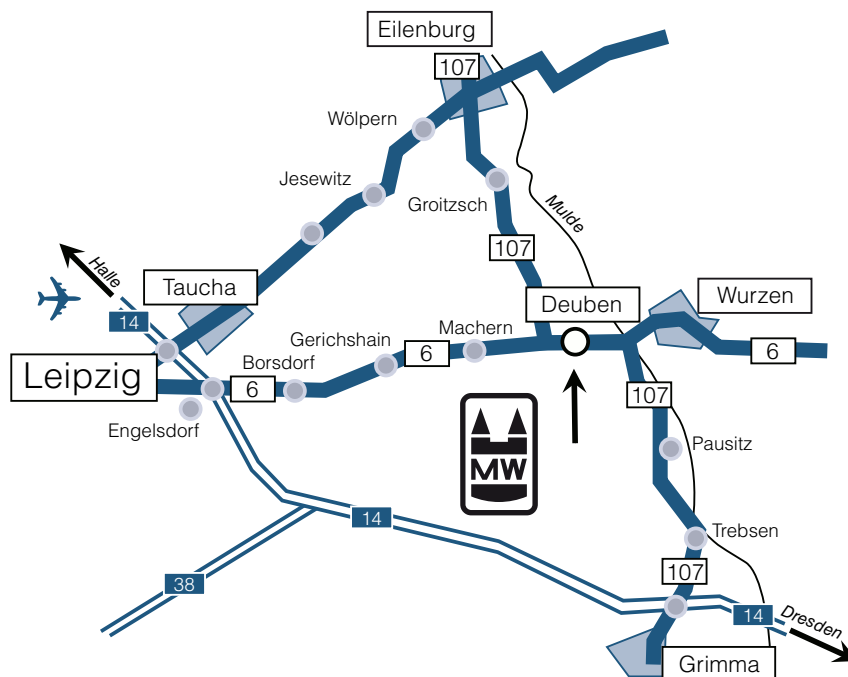
We are at your disposal

Our staff is looking forward to answer your questions. For enquiries, orders and information, please contact the respective department.

Our sales department can be reached on weekdays from 8.00 am to 4.00 pm. Don't hesitate to send us an e-mail or a fax.

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How to find us



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