



The Whole World of Oxyfuel Technology



Flame Gouging

The Original - the Source of Safety

The Adolf Messer GmbH, founded in 1898, developed the first oxyfuel torches for welding and cutting. The company became the worldwide known gas and welding technology manufacturer Messer Griesheim GmbH. In 1999 the welding and cutting technology activities were merged in the Messer Cutting & Welding GmbH, and have been integrated into the MBCHolding GmbH in 2000. Since February 2005 MEC Holding GmbH becomes part of the Messer world.

The many years of co-operation with the gas companies have given us high competency in the application of technical and high-purity gases. At the Frankfurt /Main location Messer Cutting & Welding combines many years of experience in welding and process technology with innovation, quality and reliability. The wide range of products offers solutions for almost every case of application. Messer quality stands out due to its economic efficiency and long service life.

It is our prior objective to create maximum benefit for the customer. We achieve this by using the knowledge of our customers requirements, high technical competency and flexible, innovative products. We take the highest quality measures for granted, already since 1991 all company processes have been subjected to quality monitoring in accordance with DIN ISO9001.



Rivet Head Cutting

Oxyfuel Technology

This catalogue gives you an overview of our complete range of products for oxyfuel welding and cutting. In addition to this we offer extensive systems in the areas of heating technology and oxyfuel equipment for the steel industry. Our product portfolio is rounded off with proven Messer welding fillers, as well as MIG/MAG and TIG welding machines.

Training Sessions

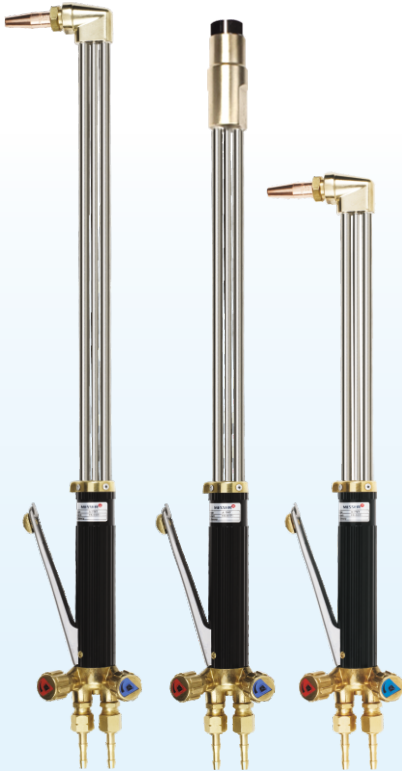
Detailed product and repair training means that our customers are always up to date on the latest state of the art technology. Information on our training sessions and dates can be obtained.

Application Technology

Our specialist advisers are available with their professional knowledge and many years of experience for advice on application technology and to present our products in practical use.

PROFI Cut H (EN ISO 5172)

The New Generation Nozzle Mixing Technology
(Same Torch can be used for Acetylene/LPG/*BMCG)



PROFI Cut H

Absolute Safety

- High resistance to back fires

Balanced Weight

- Comfortable working for continuous operation
- Torch weight 1050 gms., length 510mm

Accurate

- Precise flow rates
- Heavy duty applications even at low cylinder pressures
- Cutting range : 3 - 300mm

Tough

- 90° Solid Forged Brass Head

Durable

- Rugged design ensures maximum strength

Excellent Cutting Quality

- Reduced Post Cut Grinding Operation

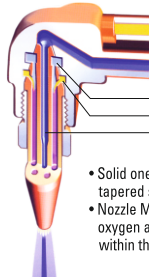
* Note: Proficut cutting torch also available in following lengths
(800 mm, 1000 mm, 1200 mm & 1500 mm)

The Powerful Hand Cutting Torch For Flame Cutting and Flame Gouging

THE SAFEST ARRANGEMENT FOR GAS CUTTING MILD STEEL

ANME

NOZZLE MIXED FLAME CUTTING NOZZLES FOR
ACETYLENE

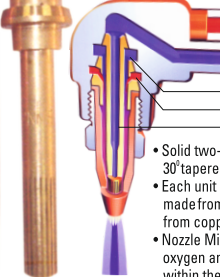


- PRE-HEAT OXYGEN
- ACETYLENE
- CUTTING OXYGEN
- Solid one-piece nozzle with international 30° tapered seat.
- Nozzle Mixing Principle for mixing preheat oxygen and acetylene by 6 separate injectors within the nozzle.

THE SAFEST ARRANGEMENT FOR CUTTING MILD STEEL

PNME

NOZZLE MIXED FLAME CUTTING NOZZLES FOR
PROPANE (LPG), METHANE (NATURAL GAS) / *BMCG



- PRE-HEAT OXYGEN
- LPG / METHANE / *BMCG
- CUTTING OXYGEN
- Solid two-piece nozzle with international 30° tapered seat.
- Each unit consisting of a cutting nozzle made from brass and heating cap made from copper.
- Nozzle Mixing Principle for mixing preheat oxygen and LPG by 3 separate injectors within the nozzle.



SETTING TABLE FOR ANME CUTTING NOZZLES

ANME Nozzle	Workpiece Thickness		Product Code	Oxygen Pressure		Acetylene Pressure		Oxygen Consumption		Acetylene Consumption		Nozzle Clearance	
Size	(mm)	(Inches)		(bar)	(p.s.i.)	(bar)	(p.s.i.)	(m ³ /h)	(c.f./h)	(m ³ /h)	(c.f./h)	(mm)	(Inches)
1/32	3-6	1/8-1/4	71616122	2,0	29	≤ 0,5	≤ 8	1,2	42	0,5	17	3-5	0,1-0,2
3/64	6-20	1/4-3/4	71616123	2,5	37			2,8	84	0,6	21		
1/16	20-75	3/4-3	71616124	3,5	51			4,8	168	0,7	25		
5/64	75-125	3-5	71616125	4,0	58			7,8	273	0,8	28	5-10	0,2-0,4
3/32	125-175	3-7	71616126	4,5	65			10,2	357	0,9	32		
7/64	175-225	7-9	71616128	5,5	80			24,5	861	1,0	35		
1/8	225-300	9-12	71616127	6,5	94	≤ 0,8	≤ 12	30,1	1058	1,2	42	10-15	0,4-0,6


*Select nozzle as per cutting thickness

FUEL GAS PROPANE / BMCG PNME CUTTING NOZZLES

PNME Nozzle	Workpiece Thickness		Product Code	Oxygen Pressure		Propane Pressure		Oxygen Consumption		Propane consumption		Nozzle Clearance	
Size	(mm)	(Inches)		(bar)	(p.s.i.)	(bar)	(p.s.i.)	(m ³ /h)	(c.f./h)	(m ³ /h)	(c.f./h)	(mm)	(Inches)
1/32	3-6	1/8-1/4	71616140	2,0	29	≤ 0,5	≤ 8	2,2	77	0,4	14	3-5	0,1-0,2
3/64	6-20	1/4-3/4	71616141	3,0	44			4,3	151				
1/16	20-75	3/4-3	71616142	4,0	58			7,7	271			5-10	0,2-0,4
5/64	75-125	3-5	71616143	4,5	65			11,6	408	0,5	18		
3/32	125-175	5-7	71616144	5,0	73			17,8	626	0,6	21		
7/64	175-225	7-9	71616145	5,5	80			25,5	879	0,7	25	10-15	0,4-0,6
1/8	225-300	9-12	71616146	6,0	87			34,1	1199	0,9	32		

*Select nozzle as per cutting thickness

GAS-MIXING GOUGING NOZZLES for fuel gas acetylene

	Type	Size	Product Code		Type	Size	Product Code
	AGNM-S straight	1/8	71616230		AGNM-C curved	1/8	71616233
		3/16	71616231			3/16	71616234
		1/4	71616232			1/4	71616235

PROFI Cut H • HB8607B - Bottom lever: Product Code - 71607125

SAFEST DESIGN		LONG LIFE		GAS ECONOMY	
Features		Benefits			
Increased Nozzle Clearance		• Minimal Nozzle Wear, hence Extended Nozzle Life			
High Precision Nozzle Design		• Modern Jet Design gives Economical Cutting Oxygen Consumption • Highly focussed and Stable Preheating flame, each time the torch is lighted. Gives High Speed Preheating resulting in saving both oxygen & fuel gas consumption			



MESSER
Cutting Systems

**WORLD OF
EXCELLENCE**

Imported & Marketed in India by:

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For Industrial Use Only



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Product Range SB - January 2018