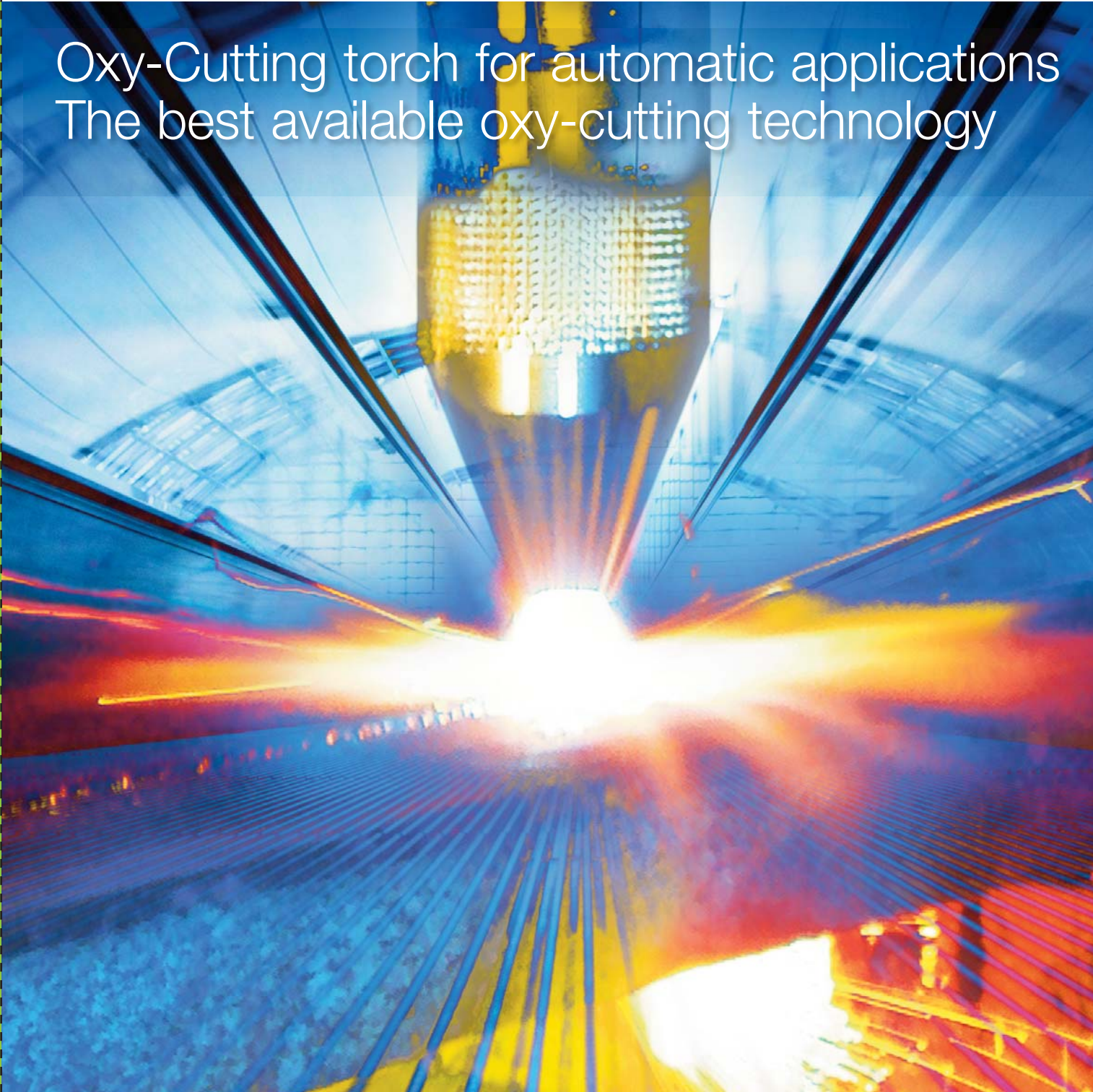
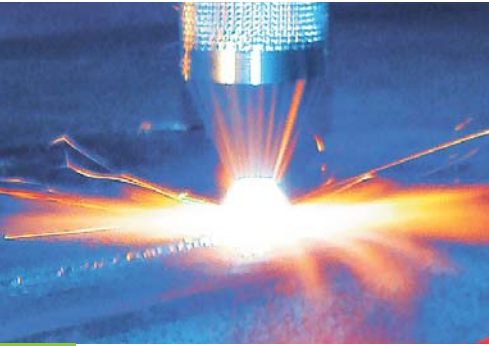


MACH HP

Oxy-Cutting torch for automatic applications
The best available oxy-cutting technology



MACH HP Oxy-cutting torch

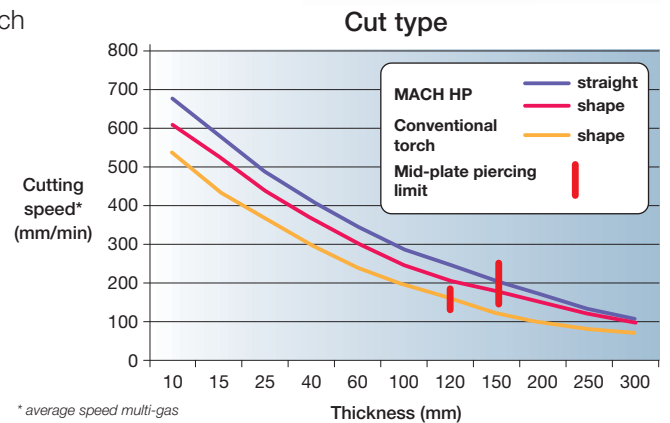


Air Liquide Welding wishes to offer always the latest and best thermal cutting technologies to its customers. For oxy-cutting, with its new **MACH HP**, oxy-cutting torch Air Liquide Welding offers you a tool which combines high cutting speeds with a simple method of tip replacement. Its robust construction coupled with the long lifetime of its consumables makes this a tool which is ideally adapted to numerous sectors of activity such as boiler-making, metallic construction and cutting sub-contractors.



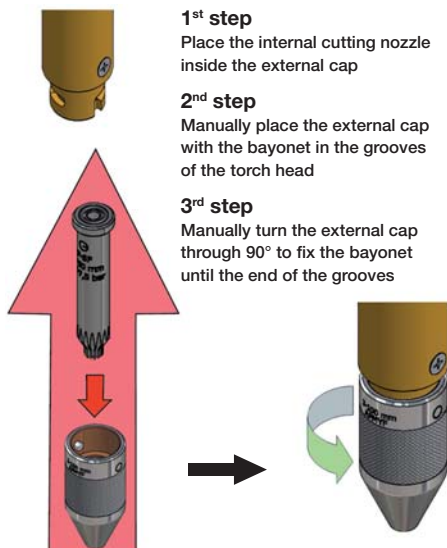
High speed cutting nozzles

- Specific shape and high quality machining of the cutting channel
- Speed gain up to 30% compared to a conventional oxy-cutting torch
- Cut quality range 1 according to ISO 9013
- Mid-plate piercing: 150 mm (HPC cycle)



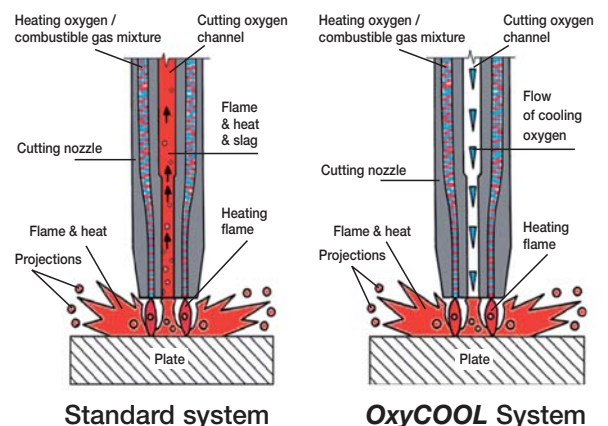
System ToolFREE

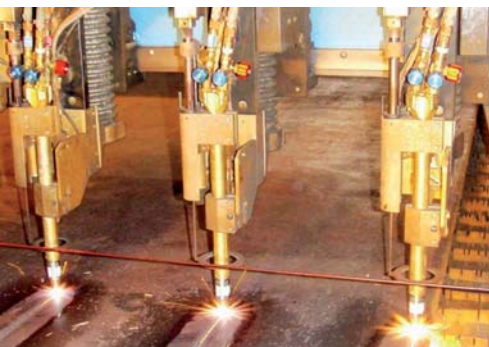
- Tool free nozzle replacement
- The bayonet system allows extremely rapid replacement



System OxyCOOL

- Micro injection of oxygen to cool the cutting channel during pre-heating phases
- Increases the nozzle lifetime and extends the cutting quality
- Lifetime up to 2 times higher compared to a conventional oxy-cutting torch





The oxy-cutting torch **MACH HP** is designed and manufactured in accordance with the ISO 5172 standard. It operates with several gases including: propane, natural gas, FLAMAL29 and acetylene⁽¹⁾. This torch can be fitted to all Air Liquide Welding machines whether equipped with a plasma installation or not. It is also available as a « retrofit » for existing machines (Air Liquide Welding or other makes).

OXYTOME, OXYTOME RS or TWIN & CYBERTOME

Optimised performance of **MACH HP** oxy-cutting torches thanks to the HPC controller notably:

- A system for automatic process control (HPC).
- Detection and capacitive height sensing using a sensor.
- A robust and simply maintained igniter.
- A height sensing probe and igniter retractable during plate piercing phases⁽²⁾.
- Instantaneous passage between the heating and over-heating phases which limits melting of the cut edges.



Gas	Product	Code	Description	
Propane (C ₃ H ₈)	Torch	W000373192	MACH HP 320-32 Type P	
	External cap	W000373194	Heating nozzle MACH HP 150 mm	
		W000373195	Heating nozzle MACH HP 300 mm	
	FLAMAL 29	Cutting nozzles	W000373196	Cutting nozzle MACH HP P7-15
			W000373197	Cutting nozzle MACH HP P15-25
			W000373198	Cutting nozzle MACH HP P25-40
			W000373199	Cutting nozzle MACH HP P40-60
			W000373200	Cutting nozzle MACH HP P60-100
			W000373201	Cutting nozzle MACH HP P100-150
			W000373202	Cutting nozzle MACH HP P150-200
			W000373203	Cutting nozzle MACH HP P200-250
	W000373204	Cutting nozzle MACH HP P250-300		
Acetylene (C ₂ H ₂)	Torch	W000373191	MACH HP 320-32 Type A	
	External cap	W000373194	Heating nozzle MACH HP 150 mm	
		W000373195	Heating nozzle MACH HP 300 mm	
	Cutting nozzles	W000373205	Cutting nozzle MACH HP A6-10	
		W000373206	Cutting nozzle MACH HP A10-25	
		W000373207	Cutting nozzle MACH HP A25-40	
		W000373208	Cutting nozzle MACH HP A40-60	
		W000373209	Cutting nozzle MACH HP A60-100	
		W000373210	Cutting nozzle MACH HP P100-150	
		W000373211	Cutting nozzle MACH HP P150-230	
		W000373212	Cutting nozzle MACH HP P230-300	
		Accessories	Seals	W000373213
FBA's			W000290912	SECURTOP 662 O 3-8 MD 3-8 FD (Heating oxygen)
	W000290913		SECURTOP 662 FG 3-8 MG 3-8 FG (Combustible gas)	
	W000374692		MACH HP ARPF COUPE O ₂ (Cutting oxygen)	
Cleaning tools	W000373221		MACH HP conical tip cleaning	
	W000373219	Brass brush for nozzles		

(1) For other gases, consult Air Liquide Welding

(2) This system, developed by Air Liquide Welding is unique in the market



Contacts

BELGIUM

AIR LIQUIDE WELDING BELGIUM SA
Z.I. West Grijsen - Grijsenlaan 5 - 3300 TIENEN
Tel.: +32 16 80 48 20 - Fax: +32 16 78 29 22

CHINA

SAF SHANGHAI REP.OFF.
Rm 722 Pine City Hotel
777 Zhao Jia Bang Lu - SHANGHAI 200032
Tel.: +86 21 64 43 89 69 - Fax: +86 21 64 43 58 97

CZECH REPUBLIC

AIR LIQUIDE CZ S.R.O. - Welding and Cutting
Podnikatelská 565 - Areál SVUM - 190 11 PRAHA 9 - Búchovice
Tel.: +420 274 023 163 - Fax: +420 274 023 233

FRANCE

AIR LIQUIDE WELDING FRANCE
13, rue d'Épluches - BP 70024 Saint-Ouen l'Aumône
95315 CERGY PONTOISE Cedex
Tel.: +33 1 34 21 33 33 - Fax: +33 1 34 21 31 30

GERMANY

OERLIKON SCHWEISSTECHNIK GmbH
Industriestrasse 12 - D-67304 EISENBERG/PFALZ
Tel.: +49 6351 4760 - Fax: +49 6351 476 335

HUNGARY

AIR LIQUIDE HUNGARY - Welding & Cutting
Krisztina krt. 39/b - H-1013 BUDAPEST
Tel.: +36 1 339 8650 - Fax: +36 1 339 8649

ITALY

AIR LIQUIDE WELDING ITALY
Via Torricelli 15/A - 37135 VERONA
Tel.: +39 045 82 91 511 - Fax: +39 045 82 91 536

LUXEMBOURG

AIR LIQUIDE WELDING LUXEMBOURG S.A.
5 rue de la Déportation - BP 1385 - L-1415 LUXEMBOURG
Tel.: +352 48 54 56 - Fax: +352 48 54 57

MALAYSIA

SAF-OERLIKON MALAYSIA SDN BHD
No 10, Jalan TPP 5/1
Taman Perindustrian Puchong - 47100 PUCHONG, SELANGOR
Tel.: +603 8060 8638 - Fax: +603 8061 620

NETHERLANDS

AIR LIQUIDE WELDING NETHERLANDS
Rudonk 6 B - NL 4824 AJ BREDA
Tel.: +31 76 541 00 80 - Fax: +31 76 541 58 96

POLAND

AIR LIQUIDE WELDING POLSKA - SP. Z.o.o
UL. Porcelanowa 10 - 40-246 KATOWICE
Tel.: +48 32 609 04 50 - Fax: +48 32 609 04 60

PORTUGAL

AIR LIQUIDE SOLDADURA LDA
Rua Dr. António Loureiro Borges, 4-2º Arquiparque
Miraflores - 1495-131 ALGÉS
Tel.: +351 21 41 64 900 - Fax: +351 21 41 69 40

ROMANIA

DUCTIL
Aleea Industriilor Nr 1 - 120224 BUZAU
Tel.: +40 238 722 058 - Fax: +40 238 716 861

RUSSIA

AIR LIQUIDE WELDING
17 Vorontsovskaya Str. - 109147 MOSCOW
Tel.: +7 495 641 28 98 - Fax: +7 495 641 28 91

SCANDINAVIA

OERLIKON SKANDINAVIEN AB
Krossverksgatan 7 - 216 16 LIMHAMN
Tel.: +46 (0)40 670 15 00 - Fax: +46 (0)40 670 15 01

SLOVAKIA

AIR LIQUIDE WELDING CENTRAL EUROPE S.R.O.
Hlohovecká 6 - 951 41 NITRA - LUŽIANKY
Tel.: +421 37 692 4610 - Fax: +421 37 651 28 04

SPAIN

OERLIKON SOLDADURA SA
Poligono Industrial la Noria Carretera de Castellon
Km-1 5,500 - 50730 El Burgo de Ebro - ZARAGOZA
Tel.: +34 976 10 47 00 - Fax: +34 976 10 42 67

SWITZERLAND

OERLIKON SCHWEISSTECHNIK AG
Mandachstrasse 54 - CH 8155 NIEDERHASLI
Tel.: +41 44 3076 111 - Fax: +41 44 3076 112

THAILANDE

AIR LIQUIDE WELDING THAILAND Co. Ltd.
40 Moo 6 - Ramindra Road Km 9.5 - KHANNAYAO, BANGKOK 10230
Tel.: +66 29 43 2250 - Fax: +66 29 43 2256

UAE

AIR LIQUIDE WELDING MIDDLE EAST FZE
Jebel Ali free zone warehouse No. FZS1AH05
P.O. BOX 18734 - Jebel Ali - DUBAI
Tel.: +971(0)48861606 - Fax: +971(0)48861608

U. K.

AIR LIQUIDE WELDING Ltd
Low March / London Road - DAVENTRY - Northants NN1 1 4SD
Tel.: +44 1 327 70 55 11 - Fax: +44 1 327 70 13 10

UKRAINE

AIR LIQUIDE WELDING UKRAINE, Llc.
Moskovskij Prospect 199 - Office 339 - 61037 KHARKOV
Tel.: +38 057 728 08 52 - Fax : +38 057 728 08 53

Contacts for other countries

ALW Export Department Italy

Via Torricelli 1 5/A
37135 VERONA
Tel.: +39 045 82 91 511 - Fax: +39 045 82 91 536

ALW Export Department France

13, rue d'Épluches
BP 70024 Saint Ouen l'Aumône
95315 CERGY-PONTOISE Cedex
Tel.: +33 1 34 21 33 33 - Fax: +33 1 30 37 19 73



www.airliquide.com

Air Liquide is the world leader in gases for industry, health and the environment, and is present in over 80 countries with 46 200 employees. Oxygen, nitrogen, hydrogen and rare gases have been at the core of Air Liquide's activities since its creation in 1902. Using these molecules, Air Liquide continuously reinvents its business, anticipating the needs of current and future markets. The Group innovates to enable progress, to achieve dynamic growth and a consistent performance. Air Liquide combines many products and technologies to develop valuable applications and services not only for its customers but also for society.