



# Welding, Cutting and Process Nozzles

## Oxy-Fuel Gas Welding Nozzles

Swaged and Lightweight nozzles are manufactured from high grade tellurium copper. ESAB's unique mandrel swaging process produces smooth, accurate gas passages which in turn control the precise flame shape. These nozzles provide the optimum conditions for oxy-acetylene welding.



### Swaged Nozzles - Use with WH443 combination Welding Blowpipe

Description	Size		Welding Capability	Part No
	ft <sup>3</sup> /m	l/h		
Swaged Size 2	2	56	1.2mm	0700016661
Swaged Size 3	3	88	2.0mm	0700016662
Swaged Size 5	5	142	2.6mm	0700016663
Swaged Size 7	7	198	3.2mm	0700016664
Swaged Size 10	10	285	4.0mm	0700016665
Swaged Size 13	13	360	5.0mm	0700016666
Swaged Size 18	18	540	6.5mm	0700016667
Swaged Size 25	25	740	8.2mm	0700016668
Swaged Size 35	35	1000	10.0mm	0700016669

### Lightweight Nozzles - Use with WH455/DH Welding Blowpipe

Description	Size		Welding Capability	Part No
	ft <sup>3</sup> /m	l/h		
Lightweight Size 1	1	26	0.9mm	0700016670
Lightweight Size 2	2	56	1.2mm	0700016671
Lightweight Size 3	3	88	2.0mm	0700016672
Lightweight Size 5	5	142	2.6mm	0700016673
Lightweight Size 7	7	198	3.2mm	0700016674
Lightweight Size 10	10	285	4.0mm	0700016675
Lightweight Size 13	13	360	5.0mm	0700016676
Lightweight Size 18	18	540	6.5mm	0700016677
Lightweight Size 25	25	740	8.5mm	0700016678

### ANM & ANME (extended length) Nozzles

ANM Series nozzles are manufactured from high grade tellurium copper. They are of solid, one piece construction, mandrel swaged to create the optimum flame conditions. ESAB's unique mandrel swaging process produces smooth, accurate gas passages providing the best conditions for high velocity acetylene gas delivering enhanced stability and efficiency. The seats are "diamond" turned to guarantee the required "metal to metal" seating required for backfire resistance.

### ANM & ANME - Use with CA444 Cutting Attachment or NM Cutters

Description	Cutting Capability	Part No
ANM 1/32"	3 - 6 mm	0700016610
ANM 3/64"	5 - 12mm	0700016611
ANM 1/16"	10 - 75mm	0700016612
ANM 5/64"	70 - 100mm	0700016613
ANM 3/32"	90 - 150mm	0700016614
ANM 1/8"	190 - 300mm	0700016615
ANME 1/32"	3 - 6mm	0700016616
ANME 3/64"	5 - 12mm	0700016617
ANME 1/16"	10 - 75mm	0700016618
ANME 5/64"	70 - 100mm	0700016619
ANME 3/32"	90 - 150mm	0700016620
ANME 1/8"	190 - 300mm	0700016621

### PNM & PNME - Use with CA444 Cutting Attachment or NM Cutters

Description	Cutting Capability	Part No
PNM 1/32"	3 - 6 mm	0700016622
PNM 3/64"	5 - 12mm	0700016623
PNM 1/16"	10 - 75mm	0700016624
PNM 5/64"	70 - 100mm	0700016625
PNM 3/32"	90 - 150mm	0700016626
PNM 1/8"	190 - 300mm	0700016627
PNME 1/32"	3 - 6mm	0700016628
PNME 3/64"	5 - 12mm	0700016629
PNME 1/16"	10 - 75mm	0700016630
PNME 5/64"	70 - 100mm	0700016631
PNME 3/32"	90 - 150mm	0700016632
PNME 1/8"	190 - 300mm	0700016633

# Oxy-Fuel Gas Process Nozzles

To enhance the capability of the range of blowpipe capabilities ESAB includes a series of Process Nozzles in the range. Manufactured to the same high standards using high grade tellurium copper where appropriate. These nozzles provide for much extended versatility to oxy-fuel gas processes.

## Propane Superheating H Series – Use with WH443 combination Welding Blowpipe

- Large flame to give a broad spread of heat
- Ideal for pre and post heating weldments
- Invaluable for shaping and forming steel components

Description	Heating Capability*	Part No
Superheating 1H	72000 – 163000** (75600 kj – 171150kj)	0700016650
Superheating 2H	102000 – 188000** (107100kj – 197400kj)	0700016651
Superheating 3H	3H 183000 – 361000** (192150kj – 379050kj)	0700016652
Superheating 4H	4H 236000 – 406000** (247800kj – 426300kj)	0700016653
Superheating 5H	281000 – 618000** (295050kj – 648900kj)	0700016654

\*Btu/h (kilojoules/h) \*\* HD-mixer required

### Maintenance

Nozzles should be tested in conjunction with the blowpipes in which they are to be used ensuring that there is no damage to the sealing faces or where they are seated within the blowpipes head as well as being free from leaks at working pressure. This should be checked every time before the use of the equipment.

Quality accessories for the quality welder  
ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at [www.esab.com](http://www.esab.com) or contact your local ESAB dealer.

## Acetylene Heating Nozzles – Use with WH443 combination Welding Blowpipe

- Intense heat
- Ideal for spot heating small areas quickly

Description	Heating Capability*	Part No
AHT - 25	52000* (54600kj)	0700016641
AHT – 50*	91000* (95550kj)	0700016642
AHT – 100*	139000* (145950kj)	0700166453

## Acetylene Gouging Nozzles

- Special nozzle for cutting “U” shaped grooves
- Ideal for back “gouging” welds or defects prior to back fill
- High speeds – simple to use with NM blowpipes & Cutters

Description	Groove Depth	Groove Width	Part No
A-GNM 13	4mm – 10mm	7mm – 9mm	0700016640
A-GNM 19	7mm – 12mm	8mm – 12mm	0700126810

### Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.

### ESAB

Hanover House, Queensgate, Britannia Road,  
Waltham Cross, Herts. EN8 7TF. UK.  
Phone: +44 (0) 1992 760698  
Fax: +44 (0) 1992 719191  
Email: [info@esab.co.uk](mailto:info@esab.co.uk)  
Website: [www.esab.co.uk](http://www.esab.co.uk)

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