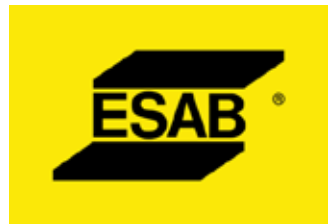


NM Combination Torch

Nozzle-Mix Style Cutting & Welding Torch



The **NM Combination Torch** is a two-piece torch that incorporates innovative handle and cutting attachment designs that offer better ergonomics, a clearer view of the cutting path, visual cues for easier use and enhanced safety.

The torch features a contoured, high-strength alloy torch handle that fits naturally in most operators' hands. While lighter than a brass handle, the handle better resists abuse, and balances well when hoses and attachments are connected.

The ST443 accepts nozzle-mix style consumables and is suitable for use with both propane and acetylene.

- § Non-slip handle is ergonomic and comfortable, easing stress on the hand.
- § Comprehensive range of welding and heating nozzles for acetylene and propane.
- § Knobs are contoured and spaced further apart for easy adjustment and colour coded with increase/decrease labels.
- § In-line stainless tubes for better visibility and reduced profile
- § Forged brass body and stainless steel valves for extended operational life and increased safety

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CA444 NM Cutting Attachment



WH443 NM Welding Handle

Ordering Information

Model	Gas Service	Length	Cut Capacity	Inlet Connection	Part Number
WH443 Handle	Oxygen/Acetylene Oxygen/Propane	8.75" / 222 mm		3/8 BSP	0700017240
CA444 Cutting Attachment	Oxygen/Acetylene Oxygen/Propane	10" / 254 mm	8" / 200 mm		0700017241
Welding Mixer – Standard	Oxygen/Acetylene				0700017242
Welding Mixer – HD	Oxygen/Acetylene				0700017243
Propane Mixer	Oxygen/Propane				0700017244

Accessories

Description	Part Number
Flashback Arrestor FT 3/8RH (Torch mounted)	0700016556
Flashback Arrestor FT 3/8LH (Torch mounted)	0700016557
Cutting Guide / Circle Cutting Attachment 25mm (1") – 736mm (29") ø	0558002676
Acetylene Heating Neck	0700143884
Propane Heating Neck	0700157553

Recommended Consumables and Operating Pressures

Welding Nozzles

Metal Thickness			Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
mm	in.	swg			Acetylene		Oxygen		Acetylene		Oxygen			
					Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H		
0.9	-	20	1	0700016660	0.14	2	0.14	2	0.47	1	0.47	1		
1.2	-	18	2	0700016661	0.14	2	0.14	2	0.94	2	0.94	2		
2.0	-	14	3	0700016662	0.14	2	0.14	2	1.42	3	1.65	3.5		
2.6	-	12	5	0700016663	0.21	3	0.21	3	2.36	5	2.83	6		
3.2	1/8	10	7	0700016664	0.21	3	0.21	3	3.30	7	3.77	8		
4.0	3/32	8	10	0700016665	0.28	4	0.28	4	4.70	10	5.20	11		
5.0	3/16	6	13	0700016666	0.28	4	0.28	4	6.60	14	7.10	15		
6.5*	1/4	3	18	0700016667	0.35	5	0.35	5	8.50	18	9.40	20		
8.2*	5/16	0	25	0700016668	0.40	6	0.40	6	11.80	25	12.70	27		

* Larger nozzle sizes requires HD Mixer

Acetylene Heating Nozzles

Nozzle Size	Part Number	Acetylene Pressue		Oxygen Pressure		Acetylene Consumption		Oxygen Consumption		Heat Output (Approx)	
		Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	W	Btu/H
AHT 25	0700016641	0.35	4	0.4	4	18	36	18.3	40	176,800	57,000
AHT 50	0700016642	0.43	5	0.4	6	30	63	33	70	309,400	91,000
AHT 100	0700016643	0.49	7	0.7	10	45	96	50	106	472,600	139,000

Acetylene Heating Nozzles require HD Mixer and Acetylene Heating Neck

Recommended Consumables and Operating Pressures

Acetylene ANM Cutting Nozzles

Metal Thickness		Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
				Oxygen		Fuel Gas		Cutting Oxygen		Heating Oxygen		Fuel Gas	
mm	in.			Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	L/M	ft ³ /H
3 – 6	¼	1/32	0700016610	1.4	20	0.30	4	14.15	30	8.5	18	8.0	17
5 – 12	½	3/64	0700016611	2.1	30	0.35	5	30.7	65	10.4	22	9.4	20
10 – 75	1-3	1/16	0700016612	3.5	50	0.40	6	88.7	188	13.2	28	11.8	25
70 – 100	4	5/64	0700016613	3.1	45	0.31	4.5	121	256	14.6	31	13.2	28
90 – 150	6	3/32	0700016614	3.1	45	0.40	6	175	370	20.0	43	18.4	39
190-300	12	1/8	0700016615	6.2	90	0.45	6.5	434	920	26.0	55	23.5	50

Acetylene ANME Cutting Nozzles

Metal Thickness		Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
				Oxygen		Fuel Gas		Cutting Oxygen		Heating Oxygen		Fuel Gas	
mm	in.			Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	L/M	ft ³ /H
3 – 6	¼	1/32	0700016616	1.4	20	0.30	4	14.15	30	8.5	18	8.0	17
5 – 12	½	3/64	0700016617	2.1	30	0.35	5	30.7	65	10.4	22	9.4	20
10 – 75	1-3	1/16	0700016618	3.5	50	0.40	6	88.7	188	13.2	28	11.8	25
70 – 100	4	5/64	0700016619	3.1	45	0.31	4.5	121	256	14.6	31	13.2	28
90 – 150	6	3/32	0700016620	3.1	45	0.40	6	175	370	20.0	43	18.4	39
190-300	12	1/8	0700016621	6.2	90	0.45	6.5	434	920	26.0	55	23.5	50

Nozzle type ANM / ANME using 6.3mm x 10m fitted hose with resettable flashback arrestors in new condition.

Pressure & consumption rates are based using the nozzle size listed next to it cutting the thickest material in the metal thickness column.

Acetylene cylinders must be manifolded when consumption rates of Acetylene exceed 16.5 litres per minute (35ft³/H).

Acetylene AGNM Gouging Nozzles

Max Groove width		Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
				Oxygen		Fuel Gas		Cutting Oxygen		Heating Oxygen		Fuel Gas	
mm	in.			Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	L/M	ft ³ /H
8	5/16	13	0700016640	4.00	60	0.50	7	61.00	130	16.5	35	15	32
11	7/16	19	0700126810	5.00	75	0.50	7	156	330	31	66	28	60

Propane PNM Cutting Nozzles

Metal Thickness		Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
				Oxygen		Fuel Gas		Cutting Oxygen		Heating Oxygen		Fuel Gas	
mm	in.			Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	L/M	ft ³ /H
3 – 6	¼	1/32	0700016622	2.0	30	0.20	3	14.15	30	22.6	48	5.7	12
5 – 12	½	3/64	0700016623	2.0	30	0.20	3	30.6	65	25.5	54	6.6	14
10 – 75	1-3	1/16	0700016624	3.4	50	0.30	4	99	210	41.5	88	10.4	22
70 – 100	4	5/64	0700016625	3.4	60	0.30	4	113	240	41.5	88	10.4	22
90 – 150	6	3/32	0700016626	4.1	60	0.40	6	160	340	56.6	120	14.2	30
190-300	12	1/8	0700016627	6.2	90	0.62	9	425	900	75.0	160	18.9	40

Propane PNME Cutting Nozzles

Metal Thickness		Nozzle Size (in.)	Part Number	Operating Pressure				Gas Consumption					
				Oxygen		Fuel Gas		Cutting Oxygen		Heating Oxygen		Fuel Gas	
mm	in.			Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	L/M	ft ³ /H
3 – 6	¼	1/32	0700016628	2.0	30	0.20	3	14.15	30	22.6	48	5.7	12
5 – 12	½	3/64	0700016629	2.0	30	0.20	3	30.6	65	25.5	54	6.6	14
10 – 75	1-3	1/16	0700016630	3.4	50	0.30	4	99	210	41.5	88	10.4	22
70 – 100	4	5/64	0700016631	3.4	60	0.30	4	113	240	41.5	88	10.4	22
90 – 150	6	3/32	0700016632	4.1	60	0.40	6	160	340	56.6	120	14.2	30
190-300	12	1/8	0700016633	6.2	90	0.62	9	425	900	75.0	160	18.9	40

Nozzle type PNM / PNME using 6.3mm x 10m fitted hose with resettable flashback arrestors in new condition.

Pressure & consumption rates are based using the nozzle size listed next to it cutting the thickest material in the metal thickness column.

Propane Super Heating Nozzles

Nozzle Size	Part Number	Propane Pressue		Oxygen Pressure		Propane Consumption		Oxygen Consumption		Heat Output (Approx)	
		Bar	Lbf/in ²	Bar	Lbf/in ²	L/M	ft ³ /H	L/M	ft ³ /H	W	Btu/H
1H	0700016650	0.14	2	0.7	10	13.8	29	58	121	244,800	72,000
		0.49	7	2.1	30	32	65	122	255	554,200	163,000
2H	0700016651	0.21	3	1.1	15	20	41	80	168	346,800	102,000
		0.56	8	2.5	35	35	75	145	304	639,200	188,000
3H	0700016652	0.28	4	1.8	25	35	75	138	290	622,200	183,000
		1.10	15	5.0	70	68	144	275	575	1,227,400	361,000
4H											