



AIRBLAST

AT(L)

Tungsten Carbide Short Nozzle with Aluminium Jacket



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The AT(L) range comprises of Tungsten Carbide lined short venturi nozzles with Aluminium Jackets. Tungsten Carbide is the liner material of choice for the majority of contractors due to long life and impact resistance - the Aluminium Jacket (adds to the rugged character of the nozzle).

This range is designed to fit to 13 mm (1/2") blast hose and to be used on 18 liter blast pots or in blast cabinets. The ATL nozzles have a large thread (28 mm) and the AT nozzles have a finer thread (26 mm).

Airblast high velocity venturi style nozzles have been designed to maximize blast cleaning rates and provide uniform abrasive distribution. The venturi design accelerates the air / abrasive mix as it exits the nozzle providing additional momentum - this can increase productivity and reduce abrasive consumption by up to 40% when compared with straight bore nozzles.

Airblast offers a full selection of nozzles with various orifice sizes, nozzle lengths, insert and liner materials. Contact Airblast to discuss which nozzle is most suitable for your specific application

AT(L) - Tungsten Carbide Short Nozzles with Aluminium Jacket

Part no.	Description	Orifice	Lenght	Inlet
2085000	AT-2 TC Nozzle with fine 26 mm thread	3,2 mm	45 mm	13 mm
2086000	AT-3 TC Nozzle with fine 26 mm thread	4,8 mm	45 mm	13 mm
2087000	AT-4 TC Nozzle with fine 26 mm thread	6,5 mm	45 mm	13 mm
2088000	AT-5 TC Nozzle with fine 26 mm thread	8,0 mm	45 mm	13 mm
2089000	AT-6 TC Nozzle with fine 26 mm thread	9,5 mm	45 mm	13 mm
2090000	AT-8 TC Nozzle with fine 26 mm thread	13,0 mm	45 mm	13 mm
2085100	ATL-2 TC Nozzle with large 28 mm thread	3,2 mm	45 mm	13 mm
2086100	ATL-3 TC Nozzle with large 28 mm thread	4,8 mm	45 mm	13 mm
2087100	ATL-4 TC Nozzle with large 28 mm thread	6,5 mm	45 mm	13 mm
2088100	ATL-5 TC Nozzle with large 28 mm thread	8,0 mm	45 mm	13 mm
2089100	ATL-6 TC Nozzle with large 28 mm thread	9,5 mm	45 mm	13 mm
2090100	ATL-8 TC Nozzle with large 28 mm thread	13,0 mm	45 mm	13 mm

COMPATIBILITY GUIDE

No.	Nozzle Orifice	Recommended range		Minimum Blast Machine capacity	Minimum Pipe ID	Blast Hose ID	Minimum Air Hose ID
		m ³ /min	CFM				
3	5.0 mm	1.27 - 2.29	45 - 81	60 ltr.	1"	¾"	1"
4	6.5 mm	2.29 - 3.88	81 - 137	60 ltr.	1"	1" - 1¼"	1¼"
5	8.0 mm	3.88 - 5.55	137 - 196	100 ltr.	1"	1" - 1¼"	1¼"
6	9.5 mm	5.55 - 7.19	196 - 254	200 ltr.	1¼"	1¼"	1½"
7	11.0 mm	7.19 - 9,57	254 - 338	200 ltr.	1¼"	1¼" - 1½"	2"
8	12.5 mm	9.57 - 15.52	338 - 548	200 ltr.	1¼"	1½"	2"

Note: Best performance is obtained when sizes of nozzle, blast machine piping, blast hose and air hose are properly matched.

- m³/min and CFM range is based on blasting at 7 bar (100 psi) for the life of the nozzle.
- Blast machine capacity should allow 20 to 30 minutes of blasting.
- Hose ID should be three to four times the size of the nozzle orifice.

NOZZLE PRESSURE / NOZZLE DIAMETER GUIDE

ORIFICE (mm) (")	NOZZLE PRESSURE / NOZZLE DIAMETER GUIDE												REQUIRED AIR	REQUIRED ABRASIVE	REQUIRED POWER	CFM Lbs./hr. hp	m ³ /min KG/hr.* kw
	60 PSI	4.2 BAR	70 PSI	4.9 BAR	80 PSI	5.6 BAR	90 PSI	6.3 BAR	100 PSI	7.0 BAR	120 PSI	8.5 BAR					
5.0 mm 3/16"	30.0	0.85	33.0	0.93	38.0	1.08	41.0	1.16	45.0	1.27	58.0	1.64	REQUIRED AIR				
	171.0	77.00	196.0	89.00	216.0	96.00	238.0	108.00	264.0	120.00	375.0	170.00	REQUIRED ABRASIVE				
	7	5.3	8	5.6	9	6.4	10	7.1	10	7.5	12	9.0	REQUIRED POWER				
6,5 mm 4/16"	54.0	1.53	61.0	1.73	68.0	1.93	74.0	2.10	81.0	2.29	105.0	2.97	REQUIRED AIR				
	312.0	141.00	354.0	160.00	408.0	185.00	448.0	203.00	494.0	224.00	660.0	300.00	REQUIRED ABRASIVE				
	12	9.0	14	10.1	16	11.6	17	12.4	18	13.5	22	16.2	REQUIRED POWER				
8.0 mm 5/16"	89.0	2.52	101.0	2.86	113.0	3.20	126.0	3.57	137.0	3.88	160.0	4.53	REQUIRED AIR				
	534.0	242.00	604.0	274.00	672.0	305.00	740.0	335.00	850.0	385.00	1.050.0	476.00	REQUIRED ABRASIVE				
	20	15.0	23	19.1	26	20.2	28	21.0	31	22.9	37	27.5	REQUIRED POWER				
9.5 mm 6/16"	126.0	3.57	143.0	4.05	161.0	4.56	173.0	4.90	196.0	5.55	235.0	6.65	REQUIRED AIR				
	764.0	346.00	864.0	392.00	960.0	425.00	1.052.0	477.00	1.152.0	523.00	1.475.0	669.00	REQUIRED ABRASIVE				
	28	21.0	32	24.0	36	27.0	39	28.9	44	33.0	52	39.6	REQUIRED POWER				
11.0 mm 7/16"	170.0	4.81	184.0	5.21	217.0	6.14	240.0	6.80	254.0	7.19	315.0	8.92	REQUIRED AIR				
	1.032.0	468.00	1.176.0	533.00	1.312.0	595.00	1.448.0	657.00	1.584.0	719.00	2.050.0	930.00	REQUIRED ABRASIVE				
	38	28.5	44	32.6	49	36.4	54	40.1	57	42.4	69	50.9	REQUIRED POWER				
12.5 mm 8/16"	224.0	6.34	252.0	7.14	280.0	7.93	309.0	8.75	338.0	9.57	410.0	11.61	REQUIRED AIR				
	1.336.0	606.00	1.512.0	686.00	1.680.0	762.00	1.856.0	842.00	2.024.0	918.00	2.650.0	1.202.00	REQUIRED ABRASIVE				
	50	37.5	56	42.0	63	46.9	69	51.8	75	56.3	90	67.6	REQUIRED POWER				

Chart shows calculated consumption rates of air and abrasive for new nozzles. When selecting a compressor add 50% to above figures to allow for normal nozzle wear and friction loss.

* Based on abrasive density of 1,5 kgs. per liter.

NOTE: Figures may vary depending upon working conditions. To maintain desired air pressure as nozzle orifice wears, air consumption increases. The effects of nozzle wear on air consumption must be considered when selecting nozzles and the compressors that support them.