



**AIRBLAST**

## **ATCUX(S)**

Tungsten Carbide Long Venturi Nozzle with Urethane Jacket



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The ATCUX(S) range comprises of tungsten carbide lined long venturi nozzles with durable urethane jacket. Tungsten Carbide is the liner material of choice for the majority of contractors due to long life and impact resistance - the Urethane Jacket adds to the durable character of the nozzle. Long venturi nozzles are used in standard applications in which the blaster operates at a distance of more than 30 cm (or 12") from the surface.

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.

## ORDERING INFORMATION

The ATCUXS nozzle has a 25 mm (1") inlet and large 50 mm thread. Colour: blue

Part no.	Description	Orifice	Lenght	Inlet
2474500	ATCUXS-3/50 TC Nozzle with large 50 mm thread	4,8 mm	74 mm	25 mm
2475000	ATCUXS-4/50 TC Nozzle with large 50 mm thread	6,5 mm	74 mm	25 mm
2476000	ATCUXS-5/50 TC Nozzle with large 50 mm thread	8,0 mm	74 mm	25 mm
2477000	ATCUXS-6/50 TC Nozzle with large 50 mm thread	9,5 mm	74 mm	25 mm
2478000	ATCUXS-7/50 TC Nozzle with large 50 mm thread	11,0 mm	74 mm	25 mm
2479000	ATCUXS-8/50 TC Nozzle with large 50 mm thread	12,5 mm	74 mm	25 mm

The ATCUX nozzle has a 32 mm (1¼") inlet and a large 50 mm thread. Colour: green

Part no.	Description	Orifice	Lenght	Inlet
2470000	ATCUX-4/50 TC Nozzle with large 50 mm thread	6,5 mm	130 mm	32 mm
2471000	ATCUX-5/50 TC Nozzle with large 50 mm thread	8,0 mm	150 mm	32 mm
2472000	ATCUX-6/50 TC Nozzle with large 50 mm thread	9,5 mm	170 mm	32 mm
2473000	ATCUX-7/50 TC Nozzle with large 50 mm thread	11,0 mm	200 mm	32 mm
2474000	ATCUX-8/50 TC Nozzle with large 50 mm thread	12,5 mm	210 mm	32 mm

ORIFICE (mm) (")	NOZZLE PRESSURE / NOZZLE DIAMETER GUIDE												REQUIRED AIR	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	7	5.3	8	5.6	9	6.4	10	7.1	10	7.5	12	9.0	REQUIRED POWER	hp	kw
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	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	12	9.0	14	10.1	16	11.6	17	12.4	18	13.5	22	16.2	REQUIRED POWER	hp	kw
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	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	20	15.0	23	19.1	26	20.2	28	21.0	31	22.9	37	27.5	REQUIRED POWER	hp	kw
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	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	28	21.0	32	24.0	36	27.0	39	28.9	44	33.0	52	39.6	REQUIRED POWER	hp	kw
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	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	38	28.5	44	32.6	49	36.4	54	40.1	57	42.4	69	50.9	REQUIRED POWER	hp	kw
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	CFM	m <sup>3</sup> /min
	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	Lbs./hr.	KG/hr. *
	50	37.5	56	42.0	63	46.9	69	51.8	75	56.3	90	67.6	REQUIRED POWER	hp	kw

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.