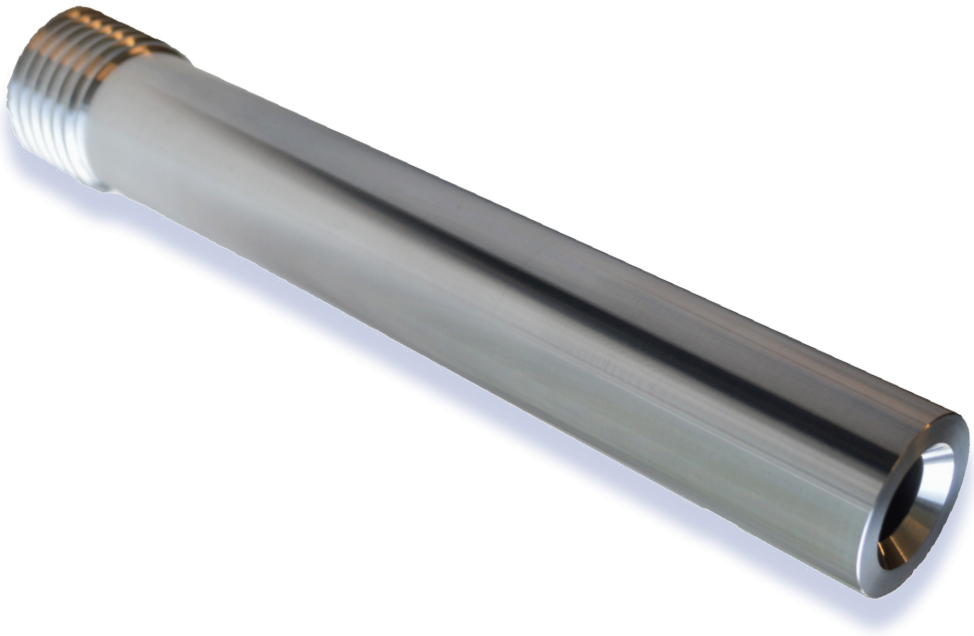
ABCXL
Boron Carbide Extra Long Venturi Nozzle

AIRBLAST



ABCXL
The ABCXL range comprises of boron carbide lined extra long venturi nozzles with aluminium jacket. These high performance nozzles accelerate particles over a longer distance, achieving higher exit velocities, producing a more concentrated blast pattern and higher production rates. These nozzles are especially suitable to clean the bigger products

Boron Carbide is the most durable liner available – therefore these nozzles perform especially well with aggressive abrasives such as aluminum oxide, silicon carbide and steel grit, and are therefore often used in blast rooms.

The ABCXL is available with 1¼” (32 mm) inlet and has a standard 50 mm large thread.

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

ABCXL - Boron Carbide extra long (XL) venturi nozzle with aluminium jacket

Part no.	Description	Orifice	Lenght	Inlet
2304100	ABCXL-4/50 Boron Carbide XL Venturi Nozzle	6,4 mm	305 mm	32 mm
2304200	ABCXL-5/50 Boron Carbide XL Venturi Nozzle	8,0 mm	305 mm	32 mm
2304300	ABCXL-6/50 Boron Carbide XL Venturi Nozzle	9,5 mm	305 mm	32 mm
2304400	ABCXL-7/50 Boron Carbide XL Venturi Nozzle	11,1 mm	305 mm	32 mm
2304500	ABCXL-8/50 Boron Carbide XL Venturi Nozzle	12,7 mm	305 mm	32 mm
2304600	ABCXL-9/50 Boron Carbide XL Venturi Nozzle	15,1 mm	305 mm	32 mm

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

Chart shows calculated consumption rates of air and abrasive for new nozzles. When slecting 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.

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