

AIR CONSUMPTION CHART

SUCTION BLAST NOZZLE BORE				
		CUBIC FEET PER MINUTE		
AIR JET DIAMETER	BLAST NOZZLE DIAMETER	40 PSIG	60 PSIG	80 PSIG
1/16"	1/8"	3.5	4.5	5.50
1/8"	1/4"	13.50	18.00	22.00
3/16"	3/8"	30.00	40.00	50.00
1/4"	1/2"	54.00	75.00	90.00
4.0MM	8.0MM	20.00	25.00	30.00

PRESSURE BLAST NOZZLE BORE							
		NOZZLE BORE DETAILS		CUBIC FEET PER MINUTE			
SIZE	MM	NOZZLE	INCH	40 PSIG	60 PSIG	80 PSIG	100SIG
3	4.68mm	350AP	3/16"	22.50	30.00	38.00	45.00
4	6.25mm	450AP	1/4"	40.00	55.00	70.00	80.00
5	7.81mm	550AP	5/16"	71.00	90.00	115.00	140.00
6	9.37mm	650AP	3/8"	-	125.00	160.00	200.00
7	10.93mm	750AP	7/16"	-	170.00	215.00	255.00
8	12.50mm	850AP	1/2"	-	225.00	275.00	340.00
9	15.62mm		5/8"	-	350.00	450.00	550.00
10	18.75mm		3/4"	-	500.00	650.00	800.00

BLAST HOSE SIZING					
AT NOZZLE	NOZZLE DIAMETER BORE	NOZZLE	HOSE SIZE	COUPLING OPTIONS	
				Nozzle Holders	Claw Couplers
AT-2	1/8"		12X27	BMS-BBBHO-27	
AT-3	3/16"		12X27	BMS-BBBHO-27	
AT-4	1/4"	450AP	19X34	BMS-BBBHO-34	
AT-4	1/4"	450AP	19X38	BMS-BBBHO-38	MHE-0
	5/16"	550AP	25X48	Q1	MHE-1
	3/8"	650AP	25X48	Q-2	MHE-2
	7/16"	750AP	32X48	Q-2	MHE-2
	1/2"	850AP	32X48	Q-2	MHE-2





SURFACE FINISHING SPECIALISTS

AIR CONSUMPTION - DRY BLAST GUIDELINE ONLY

NOZZLE ORIFICE MM(IN)	Air, power, Abrasive requirements	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	125 PSI
1/8" SIZE 2	CFM	12	13	15	18	19	21	26
	HORSEPOWER KW	1.30	1.49	1.86	2.24	2.61	2.98	4.47
	ABRASIVE: KG/HR	32	36	41	45	50	54	61
3/16" SIZE 3	CFM	25	30	35	40	43	45	60
	HORSEPOWER KW	3.73	5.97	6.71	7.08	7.46	7.83	11.93
	ABRASIVE: KG/HR	68	77	91	98	109	118	145
1/4" SIZE 4	CFM	50	55	60	70	75	80	95
	HORSEPOWER KW	7.46	8.95	9.69	11.93	12.68	13.42	18.64
	ABRASIVE: KG/HR	122	136	159	181	204	227	306
5/16" SIZE 5	CFM	80	90	100	115	125	140	190
	HORSEPOWER KW	12.68	14.91	18.64	20.13	20.88	22.37	26.85
	ABRASIVE: KG/HR	213	240	272	306	340	374	454
3/8" SIZE 6	CFM	110	125	145	160	175	200	275
	HORSEPOWER KW	18.64	21.63	23.86	26.10	29.83	33.56	42.50
	ABRASIVE: KG/HR	306	352	397	442	781	499	612
7/16" SIZE 7	CFM	150	170	200	215	240	255	315
	HORSEPOWER KW	26.10	29.83	33.56	37.28	41.01	44.74	52.20
	ABRASIVE: KG/HR	408	454	544	590	635	703	816
1/2" SIZE 8	CFM	200	225	250	275	300	340	430
	HORSEPOWER KW	33.56	37.28	41.01	46.98	52.20	55.93	70.84
	ABRASIVE: KG/HR	544	612	680	771	839	919	1145
5/8" SIZE 9	CFM	300	350	400	450	500	550	700
	HORSEPOWER KW	52.20	59.86	67.11	74.57	82.03	89.48	111.85
	ABRASIVE: KG/HR	862	998	1089	1225	1361	1497	1814
3/4" SIZE 10	CFM	430	500	575	650	700	800	1100
	HORSEPOWER KW	74.57	85.76	96.94	108.13	119.31	130.50	160.33
	ABRASIVE: KG/HR	1225	1406	1588	1769	1950	2132	2586

This table is to be used as a reference only. Actual results may vary depending on coating to remove, abrasive used, type of surface finishing equipment used, quality of abrasive, blast operator technique. These variables and other may change the air consumption required. This table is based on abrasive with a bulk density of 100 pound per cubic foot.



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