

COMPRESSED AIR REQUIREMENTS & ABRASIVE CONSUMPTION

CONSUMPTION RATES ARE BASED ON ABRASIVES
THAT WEIGH 100 POUNDS PER CUBIC FOOT

Nozzle Orifice	Pressure At The Nozzle (psi)							Air, Power & Abrasive Requirements
	50	60	70	80	90	100	125	
No. 2 1/8"	11	13	15	17	18.5	20	25	Air (cfm)
	67	77	88	101	112	123	152	Abrasive (lb/hr)
	2.5	3	3.5	4	4.5	5	5.5	Compressor (hp)
No. 3 3/16"	26	30	33	38	41	45	55	Air (cfm)
	150	171	196	216	238	264	319	Abrasive (lb/hr)
	6	7	8	9	10	10	12	Compressor (hp)
No. 4 1/4"	47	54	61	68	74	81	98	Air (cfm)
	268	312	354	408	448	494	608	Abrasive (lb/hr)
	11	12	14	16	17	18	22	Compressor (hp)
No. 5 5/16"	77	89	101	113	126	137	168	Air (cfm)
	468	534	604	672	740	812	982	Abrasive (lb/hr)
	18	20	23	26	28	31	37	Compressor (hp)
No. 6 3/8"	108	126	143	161	173	196	237	Air (cfm)
	668	764	864	960	1052	1152	1393	Abrasive (lb/hr)
	24	28	32	36	39	44	52	Compressor (hp)
No. 7 7/16"	147	170	194	217	240	254	314	Air (cfm)
	896	1032	1176	1312	1448	1584	1931	Abrasive (lb/hr)
	33	38	44	49	54	57	69	Compressor (hp)
No. 8 1/2"	195	224	252	280	309	338	409	Air (cfm)
	1160	1336	1512	1680	1856	2024	2459	Abrasive (lb/hr)
	44	50	56	63	69	75	90	Compressor (hp)

- For nozzle sizes 3/8" to 1/2", blast machines should be equipped with 1-1/4" or larger piping and inlet valve to prevent pressure loss.
- Air requirements were measured by a flow meter under actual blasting conditions, and are therefore lower than figures for air alone, with no abrasive.
- Horsepower requirements are based on 4.5 cfm per horsepower.
- Figures are for reference only, and may vary for different working conditions. Several variables, including metering valve adjustment, can affect abrasive flow.

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