

TECHNICAL DATA SHEET

Note: For safe, efficient blasting, read and follow the owner's manual and seek training for everyone who will use this equipment.

Purpose

A blast nozzle accelerates the air and abrasive as the mixture exits the end of the hose. The length of the nozzle's inlet determines the pattern and velocity of the abrasive exiting the nozzle. The composition of the liner material determines its resistance to wear.

Requirements for Operation

Nozzles are sized by the diameter of their orifices in 1/16-inch increments. A No. 2 nozzle has a 2/16-inch (1/8-inch) orifice, a No. 3 nozzle has a 3/16-inch orifice, etc. The size of the nozzle orifice determines abrasive and air consumption. Air consumption is measured in cubic feet per minute (cfm) at a given pressure. See the air and abrasive consumption chart on the back of this page.

When choosing a nozzle, consider the amount of available air in cfm, the capacity of the blast machine and the inside diameter of the piping, the blast and air hoses. If too large a nozzle is used, low blast pressure and rapid wear on the blast hose will occur. If too small a nozzle is used, smooth media flow will be difficult to achieve.

Description of Operation

The operator attaches the nozzle to the nozzle holder on the coupled blast hose by turning the nozzle clockwise until the nozzle fully seats and is threaded in place. The Clemco nozzle holder keeps the nozzle firmly installed.

Description

Blast nozzle with straight barrel shape, tungsten carbide liner, and metal jacket. All CT nozzles have 3/4" threading and 1/2" diameter entry.



With all related equipment correctly assembled and tested, the operator points the nozzle at the surface to be cleaned and presses the remote control handle to begin blasting. The operator holds the nozzle 3 to 6 inches from the surface and moves it smoothly at a rate that produces the desired cleanliness. Each pass should overlap slightly.

The operator must replace the nozzle once the orifice wears 1/16-inch beyond its original size.

Advantages

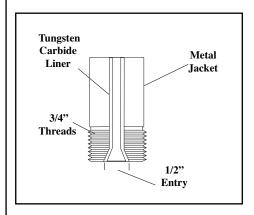
CT-4

- Tungsten Carbide liner material is the most rugged and durable. It is also the best value in a liner material.
- Short nozzles (CTs) are designed for blasting 3 to 6 inches away from the surface.
- Expected life with expendable abrasives is approximately 300 hours.
- 1/2-inch entry provides smooth transition and maximum productivity with 1/2-inch ID blast hose.

Nozzles

Tungsten Carbide Lined Metal Jacketed

Short Straight Barrel CT Series



Replacement Parts

Specifications				
Nozzle Model	CT			
Mounting Thread	3/4"			
Entry Diameter	1/2"			
Liner	Tungsten Carbide			
Liner Style	Straight Barrel			
Jacket Material	Aluminum			

Authorized Distributor:



www.canfieldjoseph.com 800-364-5452

Compressed Air and Abrasive Consumption

Nozzle Orifice	50	Air (in cfm) Abrasive & HP requirements								
No. 2 (1/8")	11 .67 67 2.5	13 .77 77 3	15 .88 88 3.5	17 1.01 101 4	18.5 1.12 112 4.5	20 1.23 123 5	25 1.52 152 5.5	28 1.70 170 6.2	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 3 (3/16")	26 1.50 150 6	30 1.71 171 7	33 1.96 196 8	38 2.16 216 9	41 2.38 238 10	45 2.64 264 10	55 3.19 319 12	62 3.57 357 13	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 4 (1/4")	47 2.68 268 11	54 3.12 312 12	61 3.54 354 14	68 4.08 408 16	74 4.48 448 17	81 4.94 494 18	98 6.08 608 22	110 6.81 681 25	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 5 (5/16")	77 4.68 468 18	89 5.34 534 20	101 6.04 604 23	113 6.72 672 26	126 7.40 740 28	137 8.12 812 31	168 9.82 982 37	188 11.0 1100 41	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 6 (3/8")	108 6.68 668 24	126 7.64 764 28	143 8.64 864 32	161 9.60 960 36	173 10.52 1052 39	196 11.52 1152 44	237 13.93 1393 52	265 15.60 1560 58	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 7 (7/16")	147 8.96 896 33	170 10.32 1032 38	194 11.76 1176 44	217 13.12 1312 49	240 14.48 1448 54	254 15,84 1584 57	314 19.31 1931 69	352 21.63 2163 77	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	
No. 8 (1/2")	195 11.60 1160 44	224 13.36 1336 50	252 15.12 1512 56	280 16.80 1680 63	309 18.56 1856 69	338 20.24 2024 75	409 24.59 2459 90	458 27.54 2754 101	Air (cfm) Abrasive (cu.ft./hr & Lbs/hr) Compressor hp	

Chart shows air consumption in cubic feet per minute (cfm), abrasive consumption in pounds per hour and cubic feet per hour for abrasives weighing 100 pounds per cubic foot, and compressor horsepower (hp) based on 4 to 4.5 cfm per horsepower.

NOTE: Figures 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.

When nozzle orifice is 3/8-inch or larger, blast machine valves and piping must be 1-1/4-inch or larger to provide sufficient air volume.

Nozzle Stock Number, Dimensions, & Weights										
	Model No.	Stock No.	Orifice ID	Length	Net Wt	Pkg'd Wt	Holder	Washer		
3/4" Thread	CT-2 CT-3 CT-4 CT-5 CT-6 CT-8	01351 01352 01353 01354 01355 01356	1/8" 3/16" 1/4" 5/16" 3/8" 1/2"	1-3/4" 1-3/4" 1-3/4" 1-3/4" 1-3/4"	.30 lb .30 lb .30 lb .30 lb .20 lb .20 lb	.5 lb .5 lb .5 lb .5 lb .5 lb .5 lb	CHE Series	NW-1 NW-1 NW-1 NW-1 NW-1		

ISO 9001:2008 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.