



CLEMCO
The Performance System

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

The SG-300 is a suction blast system designed for abrasive blasting where the air supply is limited, or where low pressure blasting is necessary to protect delicate parts or soft surfaces.

Perfect for

- On-site glass & stone engraving
- Small paint stripping jobs
- Touch-up work after big jobs
- Farms, welding & machine shops, and home hobbyists
- Perfect for rental outlets

The SG-300 uses compressed air and abrasive to quickly clean and etch metal, masonry, glass, and other durable surfaces. You select the abrasive type, blast pressure, and nozzle size you need to create intricate works of art or just make fast work of a rusted fender.

Requirements for Operation

These items are required but not included with the SG-300.

- Clean, dry compressed air of sufficient volume to maintain pressure at the blast gun, see table. Volume required will depend on application and desired production rate.
- Air-fed respirator suitable for abrasive blasting.
- Blast media – The versatile suction blast system handles most fine abrasives. Consult your Clemco distributor for appropriate media selection. As NIOSH recommends, do not use silica sand or any abrasive that contains more than trace amounts (more than 1%) of free silica for abrasive blasting.

The rugged, all-metal hopper holds about 1 cubic foot (or one bag) of abrasive, to let you blast for extended periods without stopping to refill.

Description

The SG-300 system includes the hopper with abrasive metering mechanism, removable abrasive screen, 10 feet of air hose and media hose, trigger-control blast gun, air jet, and long-lasting tungsten carbide nozzle.

SG-300 Portable Suction Blast Gun with Hopper

Stock No. 02641



SG 300 - Portable Blast Gun with Hopper



Air Jets		Nozzles		Pressure psi					
Jet	Jet	Nozzle	Nozzle	40	50	60	70	80	
Stock No	Orifice	Stock No	Orifice						cfm
02660	1/8"	01354	5/16"	12	15	17	19	21	cfm
02661	3/16"	01355	3/8"	28	33	38	43	48	cfm
02662	1/4"	01356	1/2"	49	58	67	76	85	cfm

Description of Operation

The operator controls blasting with a handle at the nozzle. Pressing the handle starts blasting, releasing it stops blasting. The hopper contains abrasive and meters it into the media hose. Air rushing through the suction gun's mixing chamber draws blast media into the airstream and propels it out the nozzle.

Advantages

- Uses just a fraction of the air required by an industrial pressure blast machine
- Different size air jets let the SG-300 take maximum advantage of the available air supply

- Metering system maintains smooth, consistent media flow
- Hand-portable design goes anywhere

Approvals and Certifications

Trigger-control blast gun complies with OSHA regulation 1910.244 (b).

Related Clemco Literature

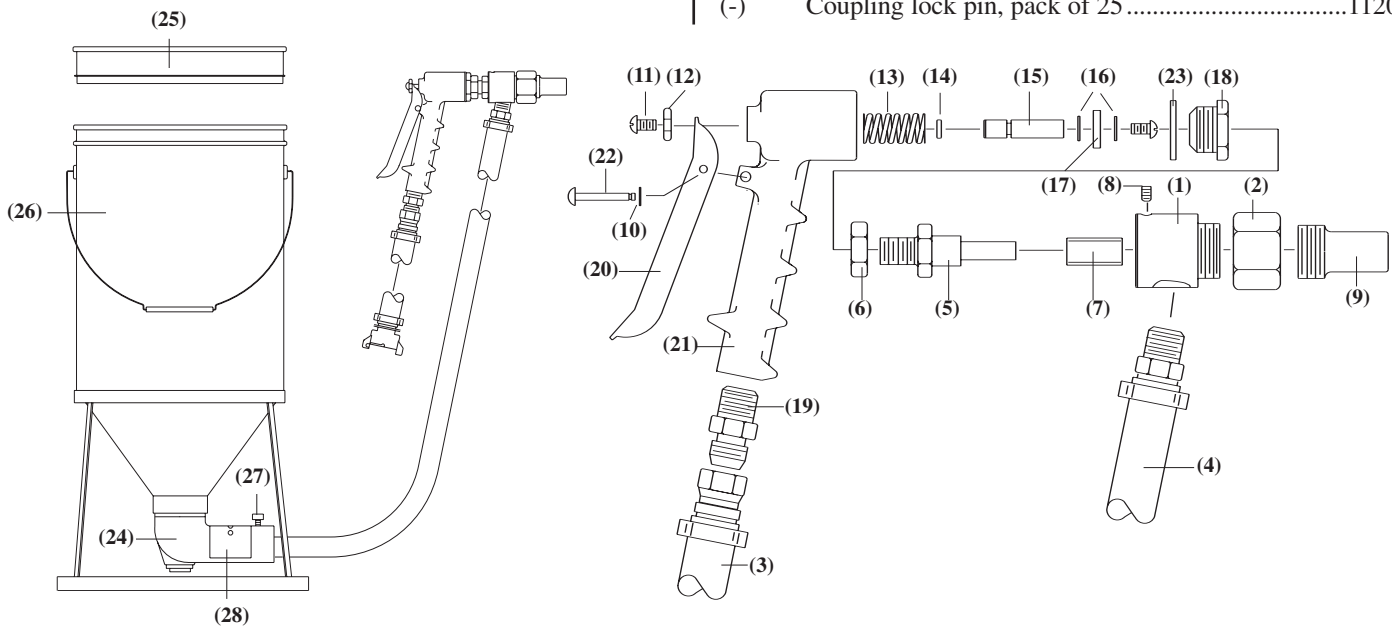
Description

	Stock No.
Contractor Series Catalog	21385
Abrasive Blasting Safety Practices	22090
Blast Off 2	09294
Suction Gun SG-300 Owner's Manual	06165

SG-300

Item	Description	Stock No.
1.	Suction body	02663
2.	Suction body nut	02664
3.	Air hose assembly, 1/2" dia x 10 ft.	02665
4.	Material hose assembly, 1/2" dia x 10 ft.	02666
5.	Air jet	
	1/16" orifice	02659
	1/8" orifice (std.)	02660
	3/16" orifice	02661
	1/4" orifice	02662
6.	Lock nut	02667
7.	Air jet sleeve	02668
8.	Set screw, 1/4-NC x 1/4"	03075

9.	Nozzle	
	3/16" orifice	01352
	5/16" orifice (std.)	01354
	3/8" orifice	01355
	1/2" orifice	01356
10.	Retaining ring	02644
11.	Screw, round head, 8-32 x 3/8"	02645
12.	Valve lift washer	02646
13.	Spring, 3/8" ID x 11/8" long	02647
14.	O-ring, 3/16" ID x 1/16" thick	01992
15.	Valve stem	02649
16.	Washer, No. 8 x 1/2" OD	02648
17.	Valve seat, neoprene, 3/4" OD x 1/8" thick	02650
18.	Valve seat, brass	02651
19.	Air hose connector	02652
20.	Valve trigger	02653
21.	Body	02654
22.	Trigger hinge pin	02655
23.	Valve seat gasket	02657
24.	Abrasive feed elbow with plug	02676
25.	Hopper screen	02673
26.	Hopper	02675
27.	Retaining screw	03131
28.	Adjusting sleeve	10809
(-)	Coupling lock pin, pack of 25	11203



Packaging

Ships in one cardboard carton 15-1/2" x 14 x 28-1/4"

Dimensions

Item	Stock No.	Weight
SG-300	02641	20 lb
(Screen and hopper on stand is 27" H x 13" Dia.)		

Color

Champagne

Authorized Distributor:

ISO 9001-2000 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.