

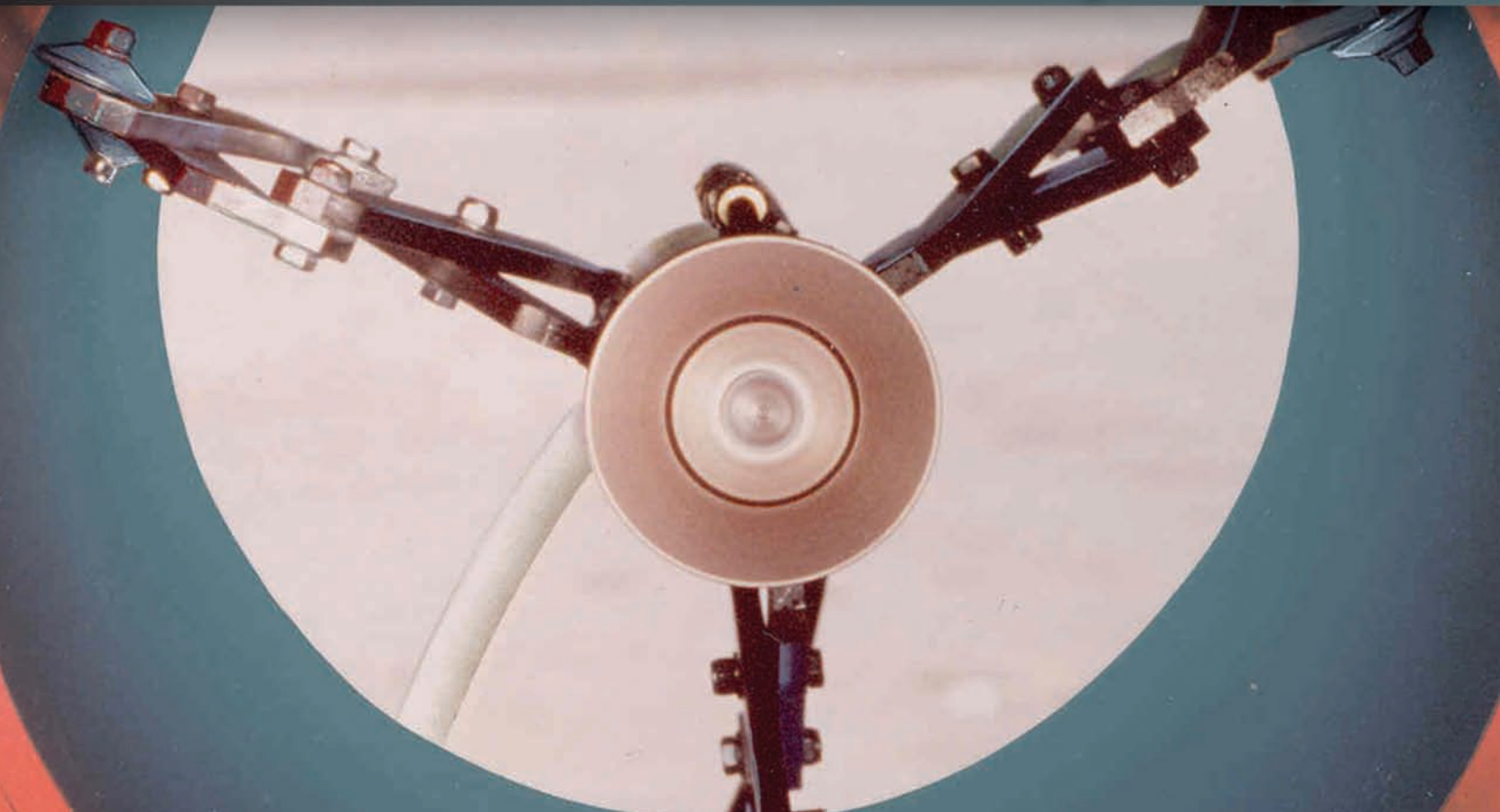
CLEMCO



Precise, Economical, Internal Pipe Cleaning

Pipe Tools

Fast, Efficient, Internal Pipe Coating



Internal Pipe Cleaning

- *Clemco tools make pipe cleaning easier*
- *Suitable for pipe ID sizes from 3/4-inch to 137 inches*
- *Easy to set up*
- *All use standard pressure blast machine*
- *No need to rotate pipe or tubing*
- *Fast, economical, efficient pipe cleaning*

Cleaning and Preventing Corrosion with Proper Surface Preparation

Clemco pipe cleaning tools help you get the job done faster, enhancing productivity and saving you money. Clemco tools are engineered for a wide range of pipe diameters and most common blast abrasives. Each tool handles a specified pipe diameter range with the use of centering devices.

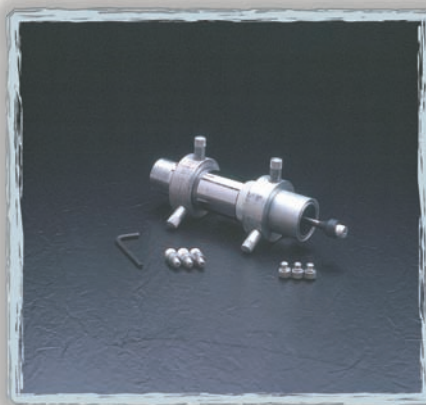
Easy Set Up and Use

These pneumatic tools use compressed air, common abrasives, and standard blast machines, coupled blast hose attached to a customer-provided pipe lance normally in a length that matches the pipe to be cleaned. The tool is placed at the far end of the pipe and drawn manually through the pipe at a speed determined to clean the pipe to the desired degree of cleanliness.

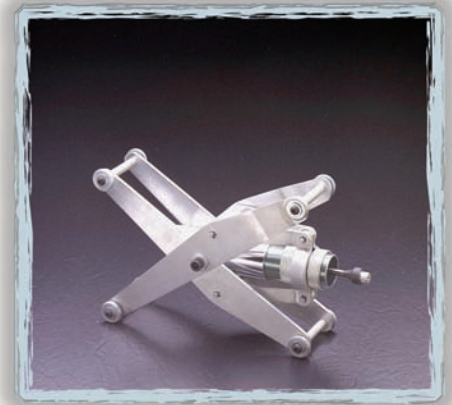
Clemco Hollo-Blast Jr. and Hollo-Blast



Hollo-Blast Jr. is sold with four sets of centering collars



Hollo-Blast with centering collar for 2" to 5" ID pipe



Hollo-Blast with centering carriage for 5" to 12" ID pipe

Hollo-Blast Jr. for Pipes 3/4-inch to 2-inch ID

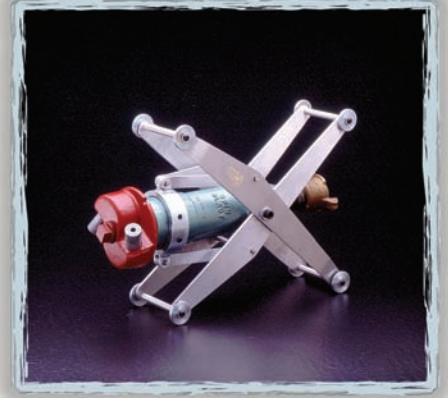
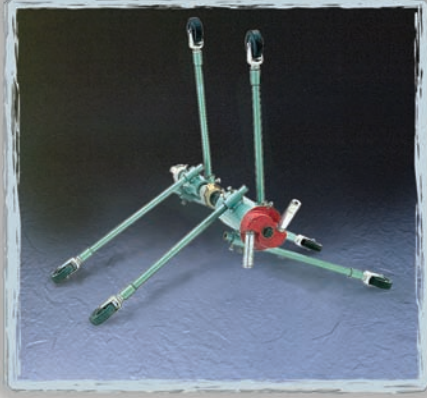
Hollo-Blast Jr. comes with a 9/32-inch tungsten carbide nozzle, which consumes 80 cfm at 100 psi. Four sets of centering collars accommodate pipes from 1-inch to 2-inch ID. Without using any collar, the tool fits pipe 3/4-inch ID.

Hollo-Blast for Pipes 2-inch to 12-inch ID

Hollo-Blast comes standard with a 1/2-inch short venturi nozzle and tungsten-carbide deflection tip to spray accelerated abrasive in a 360-degree pattern. With 1/2-inch nozzle, the tool uses 200 cfm at 100 psi. Options include a larger, 5/8-inch nozzle

(consuming 350 cfm at 100 psi) and deflection tips in longer-wearing materials: boron carbide or composite material for aggressive-media applications. Adjustable centering devices are used to fit the tool to the pipe diameter size.

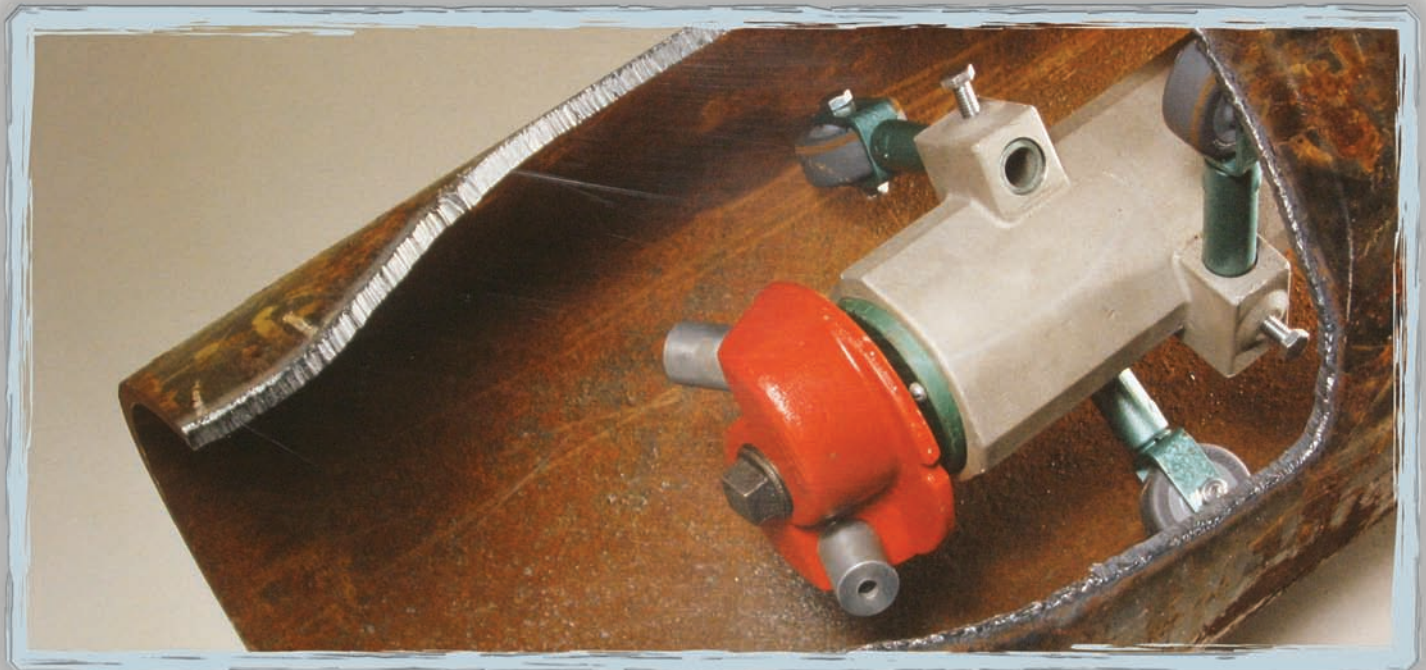
Clemco Spin-Blast — for pipes 8-inch to 60-inch ID



The Spin-Blast cleans pipe at rates unobtainable by any other means. The Spin-Blast comes in two model sizes: SB-836 for pipes 8-inch ID to 36-inch ID, with the standard nozzle head; and SB-3660 for pipes from 36-inch to 60-inch ID with a nozzle head capable of holding two nozzles.

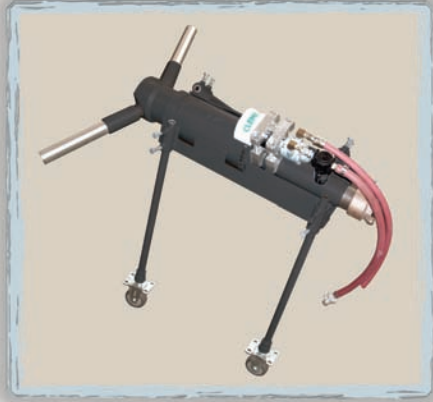
In operation, two standard nozzles installed on the head cause the head to rotate and propel abrasive to the pipe surface for incomparable hitting force. SB-3660 uses long venturi nozzles for effective blasting of larger ID pipe.

Adjustable carriages are used to fit the tools to the pipe diameter size. These Spin-Blast models are productivity tools, best used in a controlled environment, where they can be maintained as needed for the production schedule.



Internal Pipe Cleaning

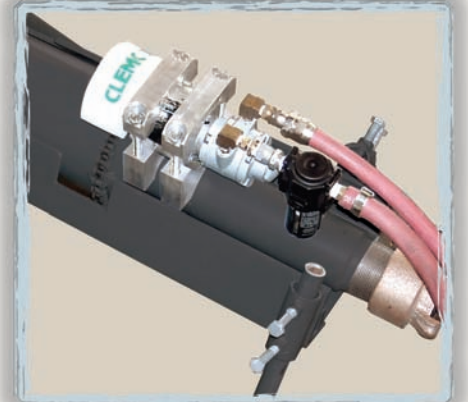
Spin-Blast HD — for large diameter pipe



Spin-Blast HD-P Rugged construction, easy control

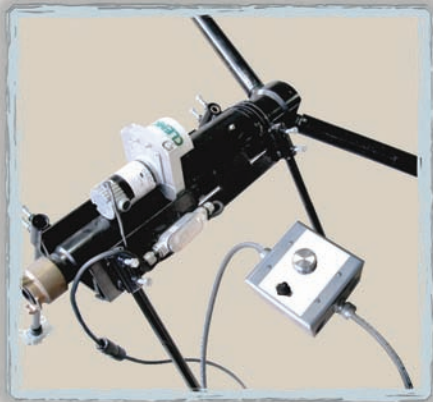
The Spin-Blast HD-P

For 18-inch to 48-inch pipe, the Spin-Blast HD pneumatic model uses an air motor to control the rotation speed of the blast head. Independent manual control of the blast head speed allows precise adjustments to suit the pipe surface condition and degree of cleanliness needed. The air motor can be run off the blast cleaning air supply or can be operated with its own compressor. The tool is designed to use two standard long venturi nozzles. The total compressed-air consumption of the tool will depend upon the nozzle orifice size.



Spin-Blast HD-P air motor

Two HD models serve the needs of rugged, high-production operations. Engineered to be truly heavy-duty for real world conditions, they have few moving parts, which translates to more optimum maintenance-friendliness.



Spin-Blast HD-E with control box

The Spin-Blast HD-E

The Spin-Blast HD electric model is for 18-inch to 137-inch pipe diameters. The motor is controlled by a simple-to-operate control box with an on-off switch and a knob to control the RPMs of the DC motor, which controls the blast head speed. By manually controlling the blast head speed, the operator can vary the dwell time for more efficient blast cleaning. The HD-E does not require AC electric power; and does not consume expensive compressed air beyond the needs of the nozzles. The motor is capable of producing 4.5 inch pounds at 25 RPM; and has 100:1 gear ratio providing the necessary torque for large, high-production blast nozzles for large diameter pipe.



Spin-Blast HD-E electric motor

Internal Pipe Cleaning Tools

SPECIFICATIONS:

| Tool | Pipe ID | Nozzle Orifice | No. of Nozzles | Air Consumption @ 100 psi | Air Requirements @ 100 psi |
|---|------------|--------------------|----------------|---|----------------------------|
| Hollo-Blast Jr. | 3/4" - 2" | 9/32" | 1 | 80 | |
| Hollo-Blast | 2" - 12" | 1/2" (standard) | 1 | 200 | |
| | | 5/8" (optional) | 1 | 350 | |
| Note: Air volume required to operate Spin-Blast models is greater than air normally consumed by the two nozzles; the additional air volume is needed for blast head rotation. Maintaining recommended air volume ensures proper function and maximum productivity . | | | | | |
| Spin-Blast SB-836 | 8" - 12" | 1/4" x 1-3/4" | 2 | | 300 |
| | 8" - 12" | 5/16" x 1-3/4" | | | 400 |
| | 8" - 12" | 3/8" x 1-3/4" | | | 600 |
| | 12" - 20" | 5/16" x 3" | 2 | | 400 |
| | 20" - 36" | 3/8" x 4" | 2 | | 600 |
| Spin-Blast SB-3660 | 36" - 60" | 1/4" long venturi | 2 | | 300 |
| | | 5/16" long venturi | 2 | | 400 |
| | | 3/8" long venturi | 2 | | 600 |
| Note: Air volume for Spin-Blast HD models is volume consumed by nozzles; independent motors operate blast head. Range of cfm is for air volume consumed as nozzles wear. Replace nozzles when worn to next 1/16". | | | | | |
| Spin-Blast HD | | | | | |
| Pneumatic | 18" - 48" | 1/4" long venturi | 2 | Note: add 50 cfm for air motor operation 162 - 274 | |
| | | 5/16" long venturi | 2 | | 274 - 392 |
| | | 3/8" long venturi | 2 | | 392 - 508 |
| | | 7/16" long venturi | 2 | | 508 - 676 |
| | | 1/2" long venturi | 2 | | 676 - 1096 |
| Electric | 18" - 137" | 1/4" long venturi | 2 | 162 - 274 | |
| | | 5/16" long venturi | 2 | 274 - 392 | |
| | | 3/8" long venturi | 2 | 392 - 508 | |
| | | 7/16" long venturi | 2 | 508 - 676 | |
| | | 1/2" long venturi | 2 | 676 - 1096 | |

ORDERING INFORMATION:

| | | |
|---|------------------|--|
| Hollo-Blast Jr. | Stock No. | Spin-Blast SB-3660 (for 36" to 60" pipe ID) |
| Hollo-Blast Jr., with centering collars and reducer |01098 | Spin-Blast tool less carriage & nozzles |
| Without reducer |01099 |10547 |
| Centering collar set |01114 | (Order nozzles and carriage separately) |
| Hollo-Blast with tungsten tip and sleeves | | Spin-Blast carriage |
| Hollo-Blast, less carriage, with 1/2" nozzle |01076 |10560 |
| Hollo-Blast, less carriage, with 5/8" nozzle |08446 | Spare parts kit |
| Hollo-Blast with boron tip and sleeves | |10894 |
| Hollo-Blast, less carriage, with 1/2" nozzle |21190 | Nozzles (2 required) |
| Hollo-Blast, less carriage, with 5/8" nozzle |25725 | 1/4" orifice x 6" long venturi |
| Hollo-Blast centering collar set (3" to 5") |01124 |04703 |
| Hollo-Blast centering carriage (5" to 12") |01131 | 5/16" orifice x 6-7/16" long venturi |
| Spin-Blast SB-836 for (8" to 36" pipe ID) | |04704 |
| Spin-Blast tool less carriage, | | 3/8" orifice x 7-5/16" long venturi |
| with 1/4" x 1-3/4" nozzles (2) |02601 |04705 |
| Spin-Blast carriage (8" to 17") |03641 | Spin-Blast HD-P (air-motor driven) |
| Spin-Blast carriage (12" to 36") |04971 | Spin-Blast HD-P tool (less nozzles) with carriage |
| Spare parts kit |02603 |25070 |
| Nozzles (2 required) | | Spin-Blast HD-P tool (less nozzles) w/o carriage |
| 1/4" x 1-3/4" long |01408 |25129 |
| 5/16" x 1-3/4" long |01409 | Nozzle, long venturi, 3/8" orifice |
| 3/8" x 1-3/4" long |01411 |23516 |
| 5/16" x 3" long |01410 | Nozzle, long venturi, 7/16" orifice |
| 3/8" x 4" long |01412 |23517 |
| | | Nozzle, long venturi, 1/2" orifice |
| | |23518 |
| | | Carriage assembly |
| | |25117 |
| | | Spare parts kit |
| | |24649 |
| | | Spin-Blast HD-E (electric-motor driven) |
| | | Spin-Blast HD-E tool (less nozzles) with carriage |
| | |24640 |
| | | Spin-Blast HD-E tool (less nozzles) w/o carriage |
| | |24641 |
| | | Nozzles (same as Spin-Blast HD-P) |
| | | Nozzle extensions (set of two) |
| | | 6".....25118 |
| | | 12".....24647 |
| | | 24".....24648 |
| | | Spare parts kit |
| | |24649 |

Internal Pipe Painting

The Clemco Orbiter

- *Efficiently handles wide range of coatings*
- *Applies uniform layer at remarkable speed*
- *No need to rotate the pipe or tubing*
- *Unique gun assembly ensures precise control*
- *Air-controlled centering carriage legs easily adjust for gradual pipe bends*



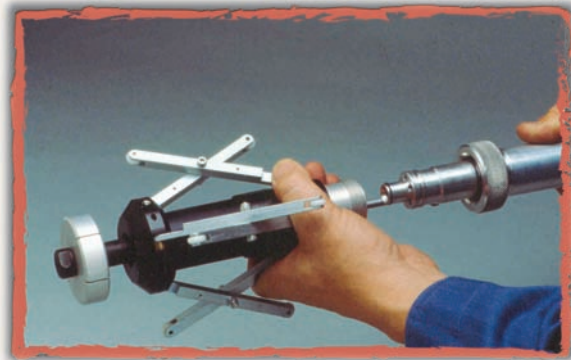
Two models cover pipe IDs from 3.5 inches through 37 inches. Each unit comes in a sturdy, stackable storage box.

Simple Solution for Industrial Coating Challenges

The Clemco Orbiter provides an innovative and efficient solution to the difficult job of applying paint to the inside of pipe, conduit, tubing or other cylindrical structures. With the Orbiter, you can apply a uniform layer of paint at remarkable speed.

Two standard models cover pipe diameters from 3.5 inches through 37 inches. Orbiter I is for pipes 3.5 to 7 inches ID. Orbiter III is for pipes 7 inches through 37 inches ID. Each system includes a paint spray tool with centering legs, an air control assembly, a paint spray gun, and air-control and high-pressure paint hoses. Not included but required for operation of the Clemco Orbiter is an airless paint spray pump. Any standard 30:1 pump is the minimum requirement, while a 45:1 pump may be preferred as dictated by the coating.

The heart of the Orbiter system is the air-control assembly. From this central location, the operator controls start/stop of the rotating-head air motor, the on/off of paint flow, and the air valve and pressure regulator, which control the expansion and contraction of the centering carriage legs.



Orbiter I coats 3.5-inch through 7-inch pipes.



Orbiter III suits pipes from 7 inches to 37 inches.



Precise components ease assembly.

Easy Set Up and Operation

Used with any standard airless paint spray pump with a minimum pump pressure ratio of 30:1; the Orbiter set up is quick and easy (the pump size will depend upon paint viscosity, hose length, and tip size). The Orbiter is powered by compressed air, which operates the rotating head and the carriage legs. Orbiter I and Orbiter III require approximately 15 cfm and 22 cfm respectively, both at 90 psi.

Various sizes of long-lasting tungsten carbide spray tips are available to suit the specified coating. Paint flows through the spray tip and paint tubing for metering at the head, the working end of the Orbiter. To operate the Orbiter, one operator handles the air-control assembly and paint gun; another manually pulls the tool from one end of the pipe to the other at a speed established by experience and the type of coating being applied and the thickness required.

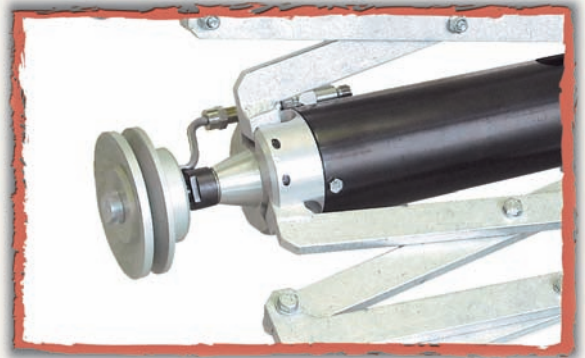


The air control assembly gives the operator all functional controls in one convenient location.

A Simple, Fast, and Cost-Effective Job

The Orbiter tools offer an effective and precise method of coating pipe. The investment will reward you with the highest rate of speed and most accurately-applied coating, saving you time and money.

The Orbiter I and III tools are each available in four packages to suit jobs with differing lengths of pipe. Choose from models with 6 feet, 12 feet, 20 feet, or 40 feet of hose. Six sizes of spray tip are available, ranging from .018 to .043 to suit the specified coating.



Spinning discs, moving at 10,000 rpm, propel paint for an even, uniform application by the Orbiter III shown.



Air-motor controlled adjustable carriage legs quickly center the paint head within the pipe.

The Clemco Orbiter is engineered to provide high performance with a wide variety of industrial coatings, offering value over the course of a long service life.

Internal Pipe Painting Tools

SPECIFICATIONS:

Orbiter I: For pipe ID: 3.5" to 7" (90mm to 150mm)
 Air consumption: 15 CFM (400 litres/min)
 Operating speed under load: 20,000 RPM
 Air motor rated at 25,000 RPM
 Standard spray tip: .026

Orbiter III: For pipe ID: 7" to 37" (180mm to 950 mm)
 Air consumption: 22 CFM (600 litres/min)
 Operating speed under load: 10,000 RPM
 Air motor rated at 15,000 RPM
 Standard spray tip: .036

SPECIFICATIONS COMMON TO BOTH TOOLS

Air pressure: maximum 90 psig (5 to 6 bar)
 Airless pump* 30:1 ratio (min) 45:1 ratio
 Pump capacity 1.0 U.S. GPM (min) 2.5 U.S. GPM
 * The pump pressure ratio will depend upon the viscosity of the coating, the hose length, and the spray tip size.

Maximum paint pressure 4500 psig (310 bar)
 Paint hose rated at 4600 psig (317 bar) working pressure
 18,400 psig (1,240 bar) burst pressure

ORDERING INFORMATION:

All complete Orbiter Systems include:

Paint spray tool with centering legs, Air-control assembly, Paint spray gun, Air-control hose and High-pressure paint hose.

Systems without hose and gun:

Orbiter I:
 3.5" to 7" ID less hoses and gun93063
 Orbiter III:
 7" to 37" ID less hoses and gun93133

Systems with hoses and gun:

For use with up to 6 ft. long pipe.
 Includes 10 ft. air control hose and 11 ft. paint hose.
 Orbiter I:
 3.5" to 7" (90mm to 180mm) ID90901
 Orbiter III:
 7" to 37" (180mm to 950mm) ID90902

For use up to 12 ft. long pipe.
 Includes 16 ft. air control hose and 18 ft. paint hose.
 Orbiter I:
 3.5" to 7" (90mm to 180mm) ID93327
 Orbiter III:
 7" to 37" (180mm to 950mm) ID93328

For use up to 28 ft. long pipe.
 Includes 32 ft. air control hose and 34 ft. paint hose.
 Orbiter I:
 3.5" to 7" (90mm to 180mm) ID93329
 Orbiter III:
 7" to 37" (180mm to 950mm) ID93330

For use up to 44 ft. long pipe.
 Includes 16 ft. and 32 ft. air control hose, coupled, and 18 ft. and 34 ft. paint hose, coupled.
 Orbiter I:
 3.5" to 7" (90mm to 180mm) ID93331
 Orbiter III:
 7" to 37" (180mm to 950mm) ID93332

Orbiter guns:

OBG paint spray gun93130
 OBG air control assembly93131

Air-Control Hoses:

Hoses may be coupled to obtain various overall lengths
 10 ft. (3m)90925
 16 ft. (5m)90926
 32 ft. (10m)90927

High-Pressure Paint Hoses:

Hoses may be coupled to obtain various overall lengths
 11 ft. (3.5m)93054
 18 ft. (5.5m)93056
 34 ft. (10.5m)93057
 Paint hose union93333

Spray Tips:

.01893250
 .02193251
 .026 (standard on Orbiter I)93078
 .03193252
 .036 (standard on Orbiter III)93253
 .04393254

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