

# PIRATE BRAND® S-SERIES

SPH & SPH PINCH BULK BLASTERS



Proudly Distributed By:

PRODUCT LINE BROCHURE

# FEATURES AND BENEFITS

**BIG GUN** 

The S-SERIES line of bulk pots was designed with the same commitment to quality and safety PIRATE BRAND® engineers into all its equipment. Take a look at some of the features that make PIRATE BRAND® S-SERIES bulk pots the most safe and productive in the industry.

#### ISO PSI HEAVY WALL VESSEL

It's simple, more psi = more productive output. To give you the best possible productivity, we have engineered our pressure vessel to be ASME certified and Canadian Registered for all provinces for everyday use at 150 psi (10.3 bar). So go ahead and be 37.5%\* more productive than 125 psi pots.

\*calculation based on 1.5% increase in productivity per 1 psi gained.

#### UNION END BALL VALVES

Union End Ball Valves make it possible to remove the metering valves for the purpose of maintenance or clearing blockages much faster and easier. We include Union End Ball Valves on BIG GUN™ models, Premium models & the Bare Bones Convenience Packages.



## APVII™ METERING VALVES

The PIRATE BRAND® APVII™ (Automatic Plunger Valve II) is a normally closed, extremely tough and well engineered metering valve designed to save you money. The solid tungsten carbide sleeve has a superior wear rate compared to the standard urethane sleeve allowing you to blast longer without replacing parts. Other premium features include a filtered breathing hole, adjustment indicators, and an overall more efficient design with 22% less parts. All these features add-up making the APVII™ a tough, reliable, and simple to use valve. APVII Metering Valves are standard on SPH BIG GUN™ and SPH Premium Blasters. Not available on SPH PINCH Systems.



#### DOUBLE SEAL POSI SEAL SAFETY SEAL

Both a safety feature and a convenience feature, the Double Seal Posi Seal Valve opens and closes automatically with the pressurization of the blaster. This must-have feature included on  $BIG\ GUN^{rm}$  and Premium models eliminates the need to manually open and close the top closure when refilling the blaster and eliminates the danger of opening the top closure on a pressurized vessel.

#### PRESSURE GAUGE

A simple, but invaluable tool in diagnosing performance issues, we have included a durable pressure gauge on our BIG GUN™ & Premium models. We also include the Pressure Gauge in the Bare Bones Convenience Packages.



#### SAFETY VALVE

The PIRATE BRAND® Safety Valve is designed to prevent the opening of a pressurized blaster by the operator which can result in serious injury or death. We equip every SPH and SPH PINCH Bulk Blaster with this safety valve along with decal warnings and instructions to protect your most valuable resource.

#### BIG GUN™ FULL FLOW SYSTEM

PIRATE BRAND® Blasters equipped with the BIG GUN™ Full Flow System are designed to give you the best production possible by eliminating restriction in the blaster's air flow. Remember, for every 1 psi of pressure lost or gained in abrasive blasting, there is a 1.5% loss or gain in productivity.



#### FULL FLOW AUTO AIR VALVES

Part of our BIG GUN™ System, these normally closed oversized air valves are less restrictive than a standard valve and provide a zero pressure drop air path for increased productivity. More Productivity = More Profitability.



#### BULLDOG JACK

You will thank us for using this highly durable and reliable jack. Included on Highway and Yard Trailers.

TOUGH & TRUSTED

O LB



Far more convenient and reliable than a pipe plug, we have included a Blind Flange Clean Out on the 4'' drain making the emptying of abrasive much faster and eliminating the possibility of abrasive jamming in the pipe threads. The flange is included on  $BIG\ GUN^{\mbox{\tiny TM}}$  models, Premium models & the Bare Bones Convenience Packages.



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# FULL FLOW SYSTEM High Productivity Blasting

PIRATE BRAND® Blasters equipped with the BIG GUN™ Full Flow System are designed to give you the best production possible by eliminating restriction in the blaster's air flow. Remember, for every 1 psi of pressure lost or gained in abrasive blasting, there is a 1.5% loss or gain in productivity.

Both SPH and SPH PINCH models are available with the BIG GUN™ System which includes 11/2" zero-pressure-drop piping and a full-port blast hose connection to make the most of your air source. Additionally, SPH models are supplied with oversized Full Flow Auto Air Valves and come standard with the APVII™ Premium Metering Valve. The BIG GUN™ Full Flow System is also a must for blasting with large bore nozzles. The bottom line is the more air you can move through your blaster, the more productive you will



Full port blast hose couplings reduce restriction at crucial connection points for increased air/ abrasive flow.



The Full Flow Auto Air Valves found on SPH BIG GUN™ models increase air flow and reduce turbulence. Not available on SPH PINCH models.



Large Ground Joint Inlet Couplings are used on 3 & 4 outlet BIG  $GUN^{m}$  to increase total air throughput.



The BIG GUN™ Full Flow Systems is a must when blasting with large bore nozzles such as #7 and larger. These high-productivity nozzles demand more air flow to operate at their best.

## SAFETY

PIRATE BRAND® fully understands how important safety is when it comes to abrasive blasting equipment and the high pressures involved. Through our well engineered design and included safety features, we have produced bulk blasting equipment that is as safe as possible while remaining highly productive. For the best in safety and productivity, you can't do better than a PIRATE BRAND® engineered blast system.

At the heart of our design is the PIRATE BRAND® Heavy Wall Pressure Vessel that is ASME certified and Canadian Registered for all provinces to be used day after day at 150 psi (10.3 bar) safely ensuring you will not experience problems due to vessel failure. Our Posi Seal Safety System included on  ${
m BIG}\,$   ${
m GUN^{m}}$  and Premium models solves the problem of the top closure being opened while under pressure by automatically sealing the opening. We also include the PIRATE BRAND® Safety Valve on all models which allows the user to check for the presence of compressed air before opening the pressure vessel.

All SPH (non-pinch) Bulk Blasters feature normally closed valves which all close automatically upon loss of power or pressure making them the safest option for bulk blasting. The SPH PINCH series of blasters use normally open pinch valves that we back up with an emergency air tank to keep them closed in the event of an air compressor running out of fuel or any other air source failure.





The PIRATE BRAND® Safety Valve adds an extra level of safety by allowing the user to test for the presence of compressed air in the system.



The Emergency Air Supply tank is used on SPH PINCH systems to ensure that the Pinch Valves can not open in the event of an air source failure.

## PRESSURE HOLD NORMALLY CLOSED VALVES

## SPH PINCH PRESSURE HOLD NORMALLY OPEN VALVES

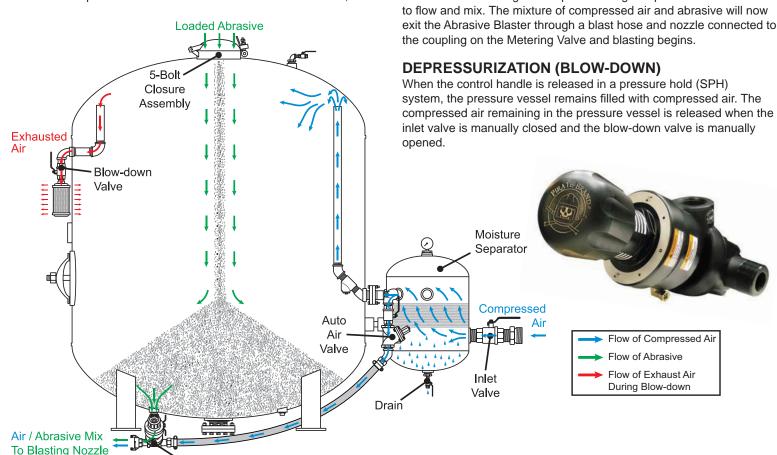
#### HOW SPH BULK SYSTEMS WORK

#### **ADDING ABRASIVE**

Abrasive is added through the 5-Bolt Closure Assembly at the top of the Abrasive Blaster. When abrasive is added, it flows down through the hole, around the Double Seal Posi Seal Valve (If Equipped), and down to the bottom of the pressure vessel where it will exit through the Metering Valve when blasting is started.

#### **PRESSURIZATION**

Before pressurization can take place in a pressure hold system, the Blow-down Valve must be closed, and the 5-Bolt Closure Assembly must be properly closed according to the procedures described in the "Operating Procedures" section of this manual on blasters not equipped with the Double Seal Posi Seal Valve. Then, when a compressed air source (such as an air-compressor) is connected to the inlet of the Abrasive Blaster and the Inlet Valve is opened, compressed air can flow through the Moisture Separator and into the pressure vessel causing the pressure vessel to fill with compressed air. When the control handle is activated, the Auto Air Valve and Metering Valve open allowing compressed air & abrasive



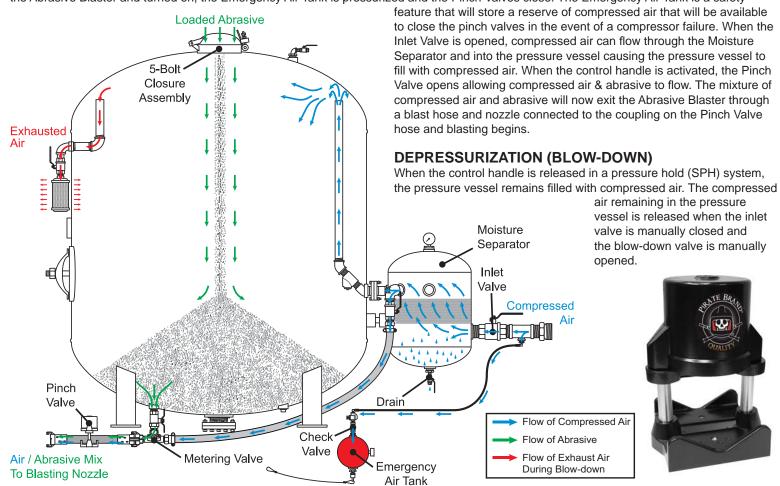
#### HOW SPH PINCH BULK SYSTEMS WORK

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STEP 1:

Metering Valve

Choose a SPH or SPH PINCH Blast System

STEP 2: Choose the level of features you want (3 to choose from) you want (3 to choose from)



Our top of the line systems which are both feature packed and include the  $BIG\ GUN^m$  system for increased productivity.

**PREMIUM** Include all the features of the BIG  $GUN^m$  systems but do not include the BIG  $GUN^m$  Full Flow system itself.

BARE BONES Basic systems that include everything necessary to blast but not our premium features or advanced safety features.

# BIG GUINT SYSTEMS

#### BIG GUN™ SYSTEMS INCLUDE:

- **%** BIG GUN™ Full Flow System for increased production featuring:
  - Full Port Blast Hose Couplings
  - Oversized BIG GUN™ Auto Air Valves (Not Available on SPH PINCH)
- Large Ground Joint Inlet on 3 and 4 outlet models.
- Increased air flow to drive Large Bore Nozzles
- \* PIRATE BRAND® POSI SEAL Safety System
- **%** 1600 CFM 4 Outlet Moisture Separator
- \* PIRATE BRAND® APVII™ Premium

  Tungsten Carbide Metering Valves (Not
  available on SPH PINCH models)
- Union-End Ball Valve metering valve connection
- Pressure Gauge for easy troubleshooting.
- **% 4" Blind Flange Clean Out**
- **ॐ** Outlet Muffler
- PIRATE BRAND® Safety Valve
- \* 150 psi (10.3 bar), 160 cu ft (4531 liter) Heavy Wall Pressure Vessel
- \* 110' Control Cord/Twinline & Control Handle included per outlet.









## SPH BIG GUN™ SYSTEMS

Featuring Normally Closed APVII™ Metering Valves / BIG GUN™ Auto Air Valves.





Part Number: 0032-019-13





Part Number: 0032-119-13





Part Number: 0033-019-13





Part Number: 0033-119-13





Part Number: 0034-019-13





Part Number: 0034-119-13

## SPH PINCH BIG GUN" SYSTEMS

Featuring Normally Open MPV Metering Valves / #400 Pinch Valves & Emergency Air Tank.





Part Number: 0032-039-13





Part Number: 0032-139-13





Part Number: 0033-039-13





Part Number: 0033-139-13





Part Number: 0034-039-13



Part numbers do not include mounting options, mounting options must be purchased separately.



Part Number: 0034-139-13

## PREMIUM SYSTEMS

#### PREMIUM SYSTEMS INCLUDE:

- \* PIRATE BRAND® POSI SEAL Safety System
- **%** 1600 CFM 4 Outlet Moisture Separator
- ♣ PIRATE BRAND® APVII™ Premium **Tungsten Carbide Metering Valves (Not** available on SPH PINCH models)
- **Lesson** Union-End Ball Valve metering valve connection
- **Pressure Gauge**
- 🕺 4" Blind Flange Clean Out
- **&** Outlet Muffler
- PIRATE BRAND® Safety Valve
- **%** 150 psi (10.3 bar), 160 cu ft (4531 liter) **Heavy Wall Pressure Vessel**
- **\$ 110' Control Cord/Twinline & Control** Handle included per outlet.







SPH PINCH PREMIUM Shown with optional skid mount and overhead bulk bag rack

## SPH PREMIUM SYSTEMS

Featuring Normally Closed APVII™ Metering Valves / Auto Air Valves.





**Part Number:** 0032-018-13





**Part Number:** 0032-118-13





**Part Number:** 0033-018-13





**Part Number:** 0033-118-13





**Part Number:** 0034-018-13





**Part Number:** 0034-118-13

## SPH PINCH PREMIUM SYSTEMS

Featuring Normally Open MPV Metering Valves / #400 Pinch Valves & **Emergency Air Tank.** 





**Part Number:** 0032-038-13





**Part Number:** 0032-138-13





**Part Number:** 0033-038-13





**Part Number:** 0033-138-13





**Part Number:** 0034-038-13





**Part Number:** 0034-138-13

# BARE BONES SYSTEMS

#### BARE BONES SYSTEMS INCLUDE:

- **%** 4 Outlet Manifold
- \* APY Urethane Metering Valves (Not Available on SPH PINCH models)
- PIRATE BRAND® Safety Valve
- **%** 150 psi (10.3 bar), 160 cu ft (4531 liter) **Heavy Wall Pressure Vessel**
- **\$ 110' Control Cord/Twinline & Control** Handle included per outlet.

#### CONVENIENCE PACKAGES



For BARE BONES systems. Convenience packages add some very helpful accessories to your system.



1. Pressure Gauge: This helpful device mounted on your moisture separator or air manifold makes diagnosing performance issues easy.



connect your metering valves to your bulk pot provides easy removal of the valve without dumping abrasive (one per

2. Union End Ball Valves: Using these to



3. 4" Flange: Located under the pressure vessel, the flange allows you to empty the blaster much easier than with a traditional threaded plug.

4. Muffler: Adding a muffler to your blowdown dramatically decreases the noise when pressure is released.

#### **Part Numbers:**

PB-CP02 (for 2 outlet systems) PB-CP03 (for 3 outlet systems) PB-CP04 (for 4 outlet systems)



#### CARBIDE SLEEVE UPGRADE



Upgrade your Bare Bones System with metering valves featuring extra durable tungsten carbide sleeves. (Not Available for SPH PINCH systems)

#### **Part Number:**

2149-000-12 (Per Outlet)

#### MOISTURE SEPARATOR



Upgrade your Bare Bones System with our 4 outlet moisture separator for added defense against clog causing moisture.

#### **Part Number:**

1200-162

## SPH BARE BONES SYSTEMS

Featuring Normally Closed APY Metering Valves / Auto Air Valves.





**Part Number:** 0032-018-12





**Part Number:** 0032-118-12





**Part Number:** 0033-018-12



Controls: **Part Number:** 0033-118-12





**Part Number:** 0034-018-12



Part Number: 0034-118-12

## SPH PINCH BARE BONES SYSTEMS

Featuring Normally Open MPV Metering Valves / #400 Pinch Valves & **Emergency Air Tank.** 





**Part Number:** 0032-038-12



Controls: Electric

**Part Number:** 0032-138-12





**Part Number:** 0033-038-12





**Part Number:** 0033-138-12





**Part Number:** 0034-038-12





**Part Number:** 0034-138-12

## MOUNTING OPTIONS

## MOUNTING OPTIONS

### HIGHWAY TRAILER

TRAILER, TORSION HWY 14K# GVWR ELECTRIC BRAKE, W/SPARE FITS 5 & 8 TON VESSELS, PIRATE BRAND

### DUAL TANDEM HIGHWAY TRAILE

(not shown) 7139-481

TRAILER, LOAD LEVELER LEAF SPRING HWY 20K# GVWR, ELECTRIC BRAKE W/SPARE FITS 5 & 8 TON VESSELS, PIRATE BRAND

THE BEST TOWING TRAILERS IN THE INDUSTRY

PIRATE BRAND® Highway and Yard Trailers feature a Bulldog® extra heavy duty jack stand.





TRAILER, TORSION, YARD 14K#, FITS 5 & 8 TON VESSELS, OFF ROAD USE ONLY, PIRATE BRAND





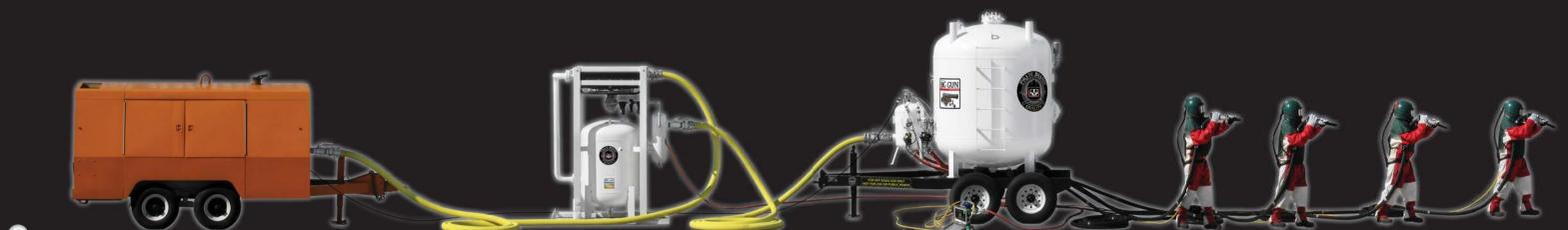
### LEG EXTENSIONS

1011-121 20" LEG EXTENSIONS, PIRATE BRAND (NOT FOR USE WITH SPH PINCH BLASTERS)





7002-121



1-1/4" E	NTRY NOZZLES
1348-555	#5 TUNGSTEN CARBIDE NOZZLE
1348-556	#6 TUNGSTEN CARBIDE NOZZLE
1348-557	#7 TUNGSTEN CARBIDE NOZZLE
1348-558	#8 TUNGSTEN CARBIDE NOZZLE
1348-5610	#10 TUNGSTEN CARBIDE NOZZLE

#12 TUNGSTEN CARRIDE NOZZLE

BLAST HOSE	
	Nozzles Not Included
10-114BLK-050-3AL	1-1/4" BLAST HOSE ASSEMBLY, 50', INCLUDES NOZZLE HOLDER
10-114BLK-050-3XAL	1-1/4"BIG GUN BLAST HOSE ASSEMBLY, 50', INCLUDES NOZZLE HOLDER
10-114BLK-050-4AL	1-1/4" EXTENSION HOSE ASSEMBLY, 50'
10-114BLK-050-4XAL	1-1/4" BIG GUN EXTENSION HOSE ASSEMBLY, 50'
10-112BLK-50-4AL	1-1/2" EXTENSION HOSE ASSEMBLY, 50'
10-112BLK-50-4XAL	1-1/2"BIG GUN EXTENSION HOSE ASSEMBLY, 50'
10-200BLK-050-4XAL	2" BIG GUN EXTENSION HOSE ASSEMBLY, 50'
10-114TAN-010-5AL	1-1/4" WHIP HOSE ASSEMBLY, 10', INCLUDES NOZZLE HOLDER
10-114TAN-010-5XAL	1-1/4"BIG GUN WHIP HOSE ASSEMBLY, 10', INCLUDES NOZZLE HOLDER
27WT-15	SAFETY CABLE, ALL BLAST HOSE TO EQUIP.
27WC-15	SAFETY CABLE, ALL BLAST HOSE TO HOSE.





	AIR HOSE
10-034RED-050-1	3/4" AIR HOSE ASSEMBLY, 50'
10-200YEL-050-1	2" AIR HOSE ASSEMBLY, 50'
10-300YEL-050-2	3" AIR HOSE ASSEMBLY, 50'
GJDS-300	DOUBLE SPUD, 3"
GJFS-300	FEMALE SPUD, 3" NPT
27WT-1	SAFETY CABLE, 3/4" HOSE TO EQUIP.
27WC-1	SAFETY CABLE, 3/4" HOSE TO HOSE.
27WT-2	SAFETY CABLE, 2" & 3" HOSE TO EQUIP.
27WC-2	SAFETY CABLE, 2" & 3" HOSE TO HOSE.



BLAST;	SUITS   GLOVES
122-9140	BLAST SUIT, LIGHTWEIGHT, MEDIUM
122-9150	BLAST SUIT, LIGHTWEIGHT, LARGE
122-9160	BLAST SUIT, LIGHTWEIGHT, XL
122-9170	BLAST SUIT, LIGHTWEIGHT, XXL
122-9180	BLAST SUIT, LIGHTWEIGHT, XXXL
407701	LUXURY DOUBLE PALMED LEATHER BLASTING/WELDING GLOVES



#### BREATHING EQUIPMENT

407906	RADEX BREATHING AIRLINE FILTER COMPLETE (6 OUTLET)
407000	NOVA 2000™ RESPIRATOR
407029	50' BREATHING AIR SUPPLY HOSE, 3/8"
407001	COOL TUBE
407024	HOT TUBE
407200	RADEX™ CO MONITOR (120V)
407201	RADEX™ CO MONITOR (12V)



AIR DRYERS	
1310-071	AIR DRYER ADBP-750/950, 800 CFM @ 100 PSIG OR 1149 CFM @ 150 PSIG
1310-121	AIR DRYER ADPB-1200 CFM @ 100 PSIG OR 1723 CFM @ 150 PSIG
1310-161	AIR DRYER ADPB-1600 CFM @ 100 PSIG OR 2297 CFM @ 150 PSIG



#### **BULK STORAGE HOPPERS** STORAGE HOPPER W/LADDER & CAGE

1107-725	BARE STEEL, NO PRIMER
1107-725-01	STORAGE HOPPER W/LADDER & CAGE BLASTED & PRIMED
1107-725-02	STORAGE HOPPER W/LADDER & CAGE BLASTED, PRIMED & PAINTED
	42" TOP HAND RAILING FOR STORAGE

## OPTIONAL EQUIPMENT

#### 120AC POWER **SUPPLY**



Allows 12VDC electric blasters to be used with standard 120AC outlets.

#### **Part Number:**

PB-SMP3WP (Powers up to 4 control valves) PB-SMP7WP (Powers up to 8 control valves)

## BULK BAG RACK



Allows for quick and easy loading of bulk packaged media. 56" x 56" x 36".

> **Part Number:** 1108-072

ELECTRIC CONVERSION KITS

Convert your pneumatically controlled bulk

recommended if you run over 100' of blast

hose or when blasting in cold weather.

blaster to electric. Electric remote controls are

**Part Number:** 

## For BARE BONES systems.

Convenience packages add some very helpful accessories to your system.

CONVENIENCE `

**PACKAGES** 

- 1. Pressure Gauge: This helpful device mounted on your moisture separator or air manifold makes diagnosing performance issues easy.
- 2. Union End Ball Valves: Using these to connect your metering valves to your bulk pot provides easy removal of the valve without dumping abrasive. (one per outlet)
- 3. 4" Clean Out Flange: Located under the pressure vessel, the flange allows you to empty the blaster much easier than with a traditional threaded plug.
- 4. Muffler: Adding a muffler to your blow-down dramatically decreases the noise when pressure is released.

#### **Part Numbers:**

PB-CP02 (for 2 outlet systems) PB-CP03 (for 3 outlet systems) PB-CP04 (for 4 outlet systems)

### LADDER **EXTENSIONS**



Mounted under the existing ladders, ladder extensions make it easier to get up the side ladders and access the top of the pressure vessel. Not for use with trailer mounted blasters.

> **Part Number:** 1014-121 (PAIR)

#### 0004-420 (2 Outlets) 0004-430 (3 Outlets) 0004-440 (4 Outlets)

## VALVE KIT

2470-007-01

Adding a Relief Valve to vour blaster can prevent dangerous overpressurization. Local codes may require a

different valve **Part Number:** 

## ASME RELIEF ABRASIVE CUT-OFF KITS







Add an abrasive cut-off conversion kit to your blaster allowing you to blow off your project with the same high velocity air you blast with.

#### **Part Numbers:**

Pneumatic Cutoff Kit 110' (Customer Installed) (1 req. per outlet): 2035-031-01 Push-Button Cut-off Kit, Ele. & Pneu.(Cust. Installed)(1 reg. per outlet): 2035-002-01 Electric Cut-off Kit 110' (Cust. Installed)(2 Outlets): 2035-132-01

> Electric Cut-off Kit 110' (Cust. Installed)(3 Outlets): 2035-133-01 Electric Cut-off Kit 110' (Cust. Installed)(4 Outlets): 2035-134-01



## THE S-SERIES

## PRODUCT FAMILY

1.5/3.5/6.5 CU FT SMALL BLASTERS















## PIRATE BRAND®

About Pirate Brand®

At Pirate Brand®, we know abrasive blasting. We have fused our 80 years of combined experience in the blasting industry with feedback from distributors and end-users to produce abrasive blast equipment and replacement parts that are second to none. In addition to our extensive line of blasting equipment, we also produce a full line of aftermarket replacement parts for other manufacturers that are 100% compatible and equal or better in quality to the original part. We believe in quality, reliability and productivity so we subject all our products to strict quality control testing to ensure the best possible performance is achieved.

In the tough world of abrasive blasting, quality is crucial, ...and Pirate Brand® delivers.

