



ANSWERS TO YOUR IK PROBLEMS

Single source provider for all your needs





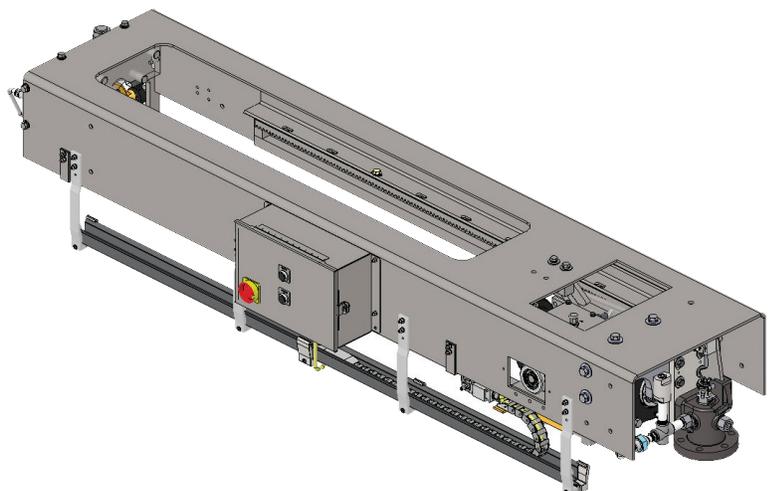
Answers to Your IK Problems

Diamond Parts

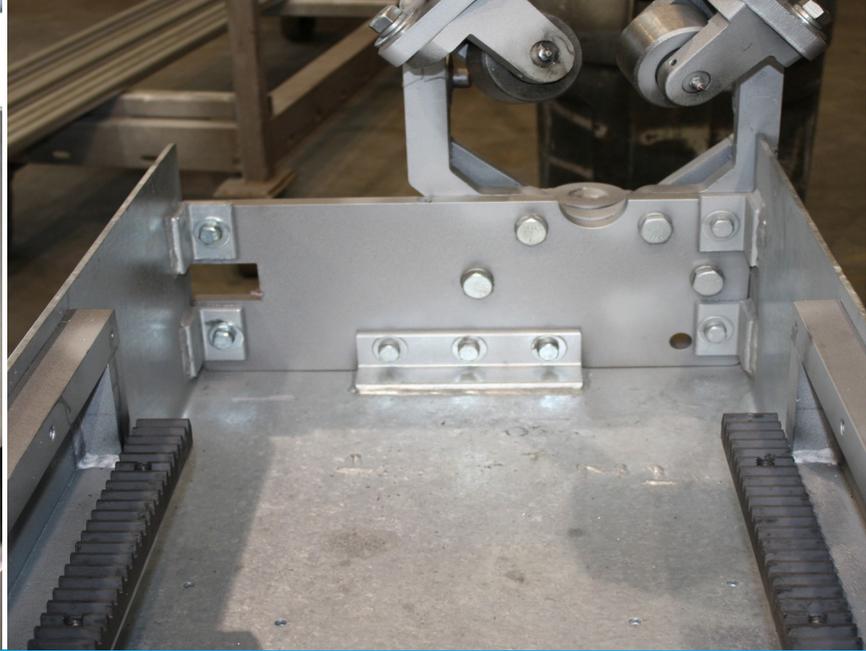
When the time comes to replace sootblower parts, it is critically important to get exactly what you need, when you need it. It is also vital to get the parts that will last the longest, extending your investments to their maximum value. Today customers are no longer at the mercy of replicators, who produce only a few high usage items. Instead they are turning to Clyde Bergemann, who offers thousands of interchangeable sootblower parts including castings, gears, shafts, bearings, seals, gaskets, bolts, nuts, and an array of other less frequently used parts for both our own Original Equipment Manufacturer (OEM) equipment and for Diamond Power IK blowers*.

What's more, as an OEM Clyde Bergemann tackles some of the most common problems encountered with the IK blowers, far beyond a few worn out parts. Our solutions cover specific problem areas on the IK blower all the way to complete sootblower replacement.

- Problem** Worn out IK525/IK545 sootblower
- Answer** Heavy duty galvanized housing
- Problem** Scratched feedtubes
- Answer** Clyde Bergemann Armor Glide feedtubes
- Problem** Blowing pressure adjustments
- Answer** Clyde Bergemann EZ Set Poppet Valves
- Problem** Expanda cable cord
- Answer** Clyde Bergemann P-chain conversion



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Problem: Worn out IK525/IK545 sootblower
Answer: Heavy duty galvanized housing

It may seem far too simple an answer, but sometimes the best way to address worn out parts is to get parts that don't wear out. For this reason Clyde Bergemann has developed a retrofit canopy to replace the standard Diamond Power design. This new canopy is a significant improvement over the OEM design, offering increased durability in operation, longer sootblower life, and easier maintenance.

The most noticeable improvement is the "Hot Dip Galvanized" protective coating applied in place of standard paint. The hot dip galvanizing seals the entire canopy, including the angle iron and front plate. This coating adds many years to the canopy's useful life, even in the harshest operating conditions. All canopy openings are plasma-cut to precise tolerances, and all openings are fitted with stainless steel covers.

☐ Benefits

- Heavy-gauge material (1/4") canopy construction provides added strength and durability for long term service life.
- Hot-dip galvanized coating provides improved protection against corrosive environments.
- Roller angle replaced with 1.25" solid square bar eliminates bending and assures optimal rack and pinion engagement for superior service performance.
- Slotted gear rack angle allows future rack replacement.
- Universal design means a single canopy can be setup as a spare part and covers the needs of both handed blower requirements.
- Solid front and rear plates provide canopy integrity and extended service life.
- Split (multiple section) canopy options available to improve installation efficiency.



Problem: Scratched feedtubes
Answer: Clyde Bergemann Armor Glide feedtubes

Clyde Bergemann is always questioning how things have been done in the past, and exploring approaches that often reinvent entire processes to lengthen the lifespan of boiler parts. The patented Armor Glide feedtube construction is just one small example of this fresh thinking – able to far outlast the chrome-plated tubes of the past.

Previous recovery service sootblowers and long travel utility sootblowers used chrome plated feedtubes, with the plating limited to a thickness of .001 to .002. The result was that thermal expansion differences between the hard chrome and base feedtube material caused cracking or peeling of the chrome.

However, the Armor Glide process is thermally bonded to the base feedtube and will not peel or flake off. Its unique design boasts a surface treatment harder, thicker and more durable than conventional chrome plating processes offered in the past. Therefore, the Armor Glide feed offers longer packing life resulting in longer sootblower run times, steam savings, reduced maintenance cost and improved boiler cleaning. Changing just one part creates a system-wide improvement whose results can easily be recognized.

Benefits

- Scratch resistant.
- Improved hardness value meaning better wear resistance, longer life and greater durability in operation.
- Offers longer packing life resulting in longer sootblower run times, steam savings, reduced maintenance cost and improved boiler cleaning.





Problem: Blowing Pressure Adjustments **Answer: Clyde Bergemann EZ-Set Poppet Valves**

Trial and error with a long, drawn out process is no way to make sootblower pressure adjustments. Clyde Bergemann has simplified and fool-proofed poppet valve replacement with its new, externally adjustable poppet valve for Diamond Power™ IK sootblowers. It can be easily retrofitted to all Diamond IK series sootblowers (IKTM, IK300, IK525/IK545, IK555, IK600, IK700 and IKSD) by simply removing the old valve and bolting this new valve in place. What's more, there is no machining or welding required and no need for component modification to install this externally adjustable poppet valve.

Unlike the old design which required lockout/tagout the Clyde Bergemann design simplifies the process saving time and money. Instead of repeating a lengthy series of steps, simply rotate the top nut while the sootblower is online and set to the desired pressure. The pressure is set correctly the first time in comparison to the guess and check method of the older design. This translates into major maintenance and operational savings and increased safety.

☐☐☐ Benefits

- Save maintenance time with online sootblower pressure adjustment.
- Easily optimize your sootblowing media consumption and the cleaning effect of your sootblower.
- Easy installation via universal feed tube design allows one model to fit both 2 3/8" and 2 3/4" feed tube sizes.
- Ensure security via locking device preventing pressure drift during operation, and providing a positive lock on the packing nut while adjusting.
- The internal portion of the valve, including the seat, is completely replaceable.
- Available in both 600# and 900# pressure ratings.





Problem: Expanda cable cord Answer: Clyde Bergemann P-chain conversion

The expanda cable power cord, located inside the sootblower housing, provides power to the motor over the course of the travel, and can cause some big problems if it isn't adjusted properly. In fact, the cable can get lodged between the cone and rod and short out if the cable loops are not the proper size to assure clearance in its confined space. Not only that, the location of the cable in proximity to the feedtube packing has been known to cause the cable to lose its shape and sag into the gear rack.

Traditionally, the cable is mounted on a suspension rod, which covers the entire length of the blower. An extension cone (later a floating cone) aids the coiling and uncoiling of the expanda cable during an operation. However, the Clyde Bergemann External Expanda Cable kit moves the expanda cable to the outside of the blower. The result is that while the same coiled cord is used, maintainability and accessibility are greatly improved.

The Clyde Bergemann "P-Chain" conversion consists of a retractable cable carrier ("P" chain) which is supported by a simple tray system. The power cord is located inside the cable carrier and is standard "SO" cord and a disconnect at the motor is provided. A towbar mounted to the carriage assembly pulls the cable carrier along and the trays support the cable of the length of travel. The result is that service life is extended and both inspection and preventative maintenance are made noticeably faster and easier.

❖ Benefits

- Both kits are externally mounted to facilitate inspection and preventive maintenance.
- Eliminates expensive coiled cords (P-Chain).
- Uses standard SO cord (P-Chain).
- Both kits provide disconnect at motor.
- Both kits retrofitable in field.
- Kits can be easily adjusted for different travels.
- Kits eliminate having different part numbers based on travel and handing.



Clyde Bergemann provides you with all of your IK solutions

When you are in need of replacement parts for your IK blower, there is no better place to turn than Clyde Bergemann. Whatever problem you may have encountered, we can help you implement a flexible cost-effective solution. We carry an impressive inventory of on hand parts in our Atlanta headquarters and in our regional service centers across North America. Even those difficult to source made to order parts such as lances and feedtubes can be shipped within a short time frame in emergency situations.

We maintain a toll free 24-hour customer service hotline for your convenience, as one more example of our commitment to make help available to you as quickly as possible. Additionally, once you have your parts installed, you can rest assured that our products are designed for easy maintenance, extending your sootblower lifespan.

That's why we can say with confidence, Clyde Bergemann replacement parts improve sootblower reliability and performance which in turn improves the total cost of ownership.

Clyde Bergemann offers a number of additional services and programs:

- Vendor Managed Inventory
- Component Exchange Program
- Fixed Price Term Agreements
- Consignment Programs
- Sootblower Availability
- Preventative Maintenance
- Training
- Inspections/Walkdowns
- Service Supervision
- Turnkey Project Management
- and more

Clyde Bergemann is represented in over 40 countries worldwide.



● Clyde Bergemann Headquarters ● Clyde Bergemann Companies ● Clyde Bergemann Associates



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QUALITY SYSTEM
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For information about the Clyde Bergemann companies and contact details please visit
<http://www.cbpg.com>