



**SCREEN MACHINE INDUSTRIES™**  
CRUSH EVERY JOB



**SCREEN MACHINE INDUSTRIES™**

*Our machines are the most rugged and reliable on the planet because they have to be. In the field, there's no room for second guessing. There's certainly no margin for error. We're sure you've heard that "the devil is in the details." We couldn't disagree more.*

*We believe the proof is in the details. The durability is in the details. The difference is in the details. It is those details that create the machines that don't just get you through the job — they give you complete and utter confidence to crush the job — no matter how big or how daunting. So you can keep on challenging anything and everything that comes out of the earth and then some. Letting nothing stand in your way — on this job site or the next.*

*What makes our machines stronger than they need to be?*

*What makes them tackle more than they need to do?*

*What makes them such a force to be reckoned with?*

*The innovation of the best engineering in the business, consistently producing patented designs for unrivaled performance. The bones and brawn of Grade 80 steel, precision cut pieces, and robotic welds.*

*The fearlessness to create and adapt.*

*The pride that comes with being American-made for more than 50 years. The spirit of a company brave enough to be inventive and daring enough to make it happen.*

*The toughness, the grit, the heart, and the soul of the people making these machines — the ones getting their hands dirty and going above and beyond to get the job done right. Day in and day out.*

*We're all of these things and more. So much more.*

*But we'll sum ourselves and our amazing company up in three little, yet huge, words: Strength. Ingenuity. Guts.*

**CRUSH EVERY JOB**

# A MESSAGE FROM THE PRESIDENT



**Steven Cohen,  
President**

The year 2016 marks the 50 year anniversary for Screen Machine Industries. What began in 1966 as Ohio Central Steel, a structural steel fabricator has grown into a world class manufacturer of construction and mining equipment. The principles on which it was founded remain the same and have never been compromised.

We had a unique opportunity to develop a business model that could support our families through the creation of a product that improves the way we sort and size different minerals. This process, called screening, led to the original development of "The Screen Machine". Our family is forever grateful for the experience of working with so many talented and dedicated individuals that have helped build and shape this company to the level it is today. The opportunity to support so many families

while building a valued product is living the American Dream.

It all started with the mining industry's demand for an American made, heavy-duty portable screening plant built with recognizable name brand parts. That was the niche that needed to be filled and we were eager to satisfy the market's needs. The principals of quality, durability, productivity, customer support and community are the foundation to which we develop our products and operate our business every day.

As I look out the window wondering what the next 50 years will bring, I am humbled at the impact our products have had on our nation's development. The thousands of rock crushers, screening plants and conveyors produced have provided the sized materials to build our

nation's highways and infrastructure, beautify our landscape and recycle our waste.

Whether we are processing limestone, topsoil, coal or any of the hundreds of other minerals, Screen Machine products have and will continue to process the materials that build our future.

I hope you enjoy reading about our company as much as we enjoy being a part of it.

*Steven Cohen*

## Contents

<i>A message from the president</i> . . . . .	4
<i>How it all began</i> . . . . .	6
<i>Plant progression</i> . . . . .	10
<i>People and departments</i> . . . . .	16
<i>Crane Group</i> . . . . .	20
<i>Designing a new product</i> . . . . .	22
<i>Manufacturing process</i> . . . . .	28
<i>Product support</i> . . . . .	34
<i>Product line-up</i> . . . . .	36
<i>Innovative patents</i> . . . . .	52
<i>Where they are around the world</i> . . . . .	56
<i>Transporting machinery worldwide</i> . . . . .	58
<i>Afghanistan story</i> . . . . .	60
<i>Hall of fame machines</i> . . . . .	64
<i>Timeline</i> . . . . .	66
<i>Trade shows</i> . . . . .	72
<i>Screen Machine in the news</i> . . . . .	74
<i>Community support</i> . . . . .	76
<i>Awards and achievements</i> . . . . .	78
<i>Thank you</i> . . . . .	80

## Vision

*To be the global leader in the design and manufacturing of portable screening plants, rock crushers, and conveyors, providing the most innovative and durable products, striving to exceed the expectations of our customers, one detail at a time.*

## Mission

*To continue to partner with our customers to design, manufacture and support the machinery that gives them complete confidence to crush every job. To utilize the innovation and ingenuity of the best engineering in the business to develop products with unrivaled quality, durability and productivity. All of this is achieved through the toughness, the grit, the heart and the soul of the people making our machines.*

# HOW IT ALL BEGAN

*“When I came to Ohio, in the summer of 1966, I had just three-thousand dollars to my name and a vision to start my own company. I didn’t know anyone here, but I was determined to make a successful start. By 1967, with hard work and determination, our first factory opened on a country road in Reynoldsburg, Ohio. With five-thousand square feet, a gravel floor, and a passion to succeed, our story began.”*

*Bernard Cohen*



*Founder, Bernard Cohen*



*Typical structural steel job, 1967*

**W**hile traveling through Ohio to attend school in Chicago, Bernard Cohen decided that Columbus, Ohio was a growing city, and the ideal location for starting up his own business. Striking out on his own, Ohio Central Steel began in 1966 as a steel fabrication business. OCS had a philosophy to use only the best American Steel and customers soon followed. Bernard Cohen started out by manufacturing miscellaneous jobs for Carter Steel, Jeffery Manufacturing, E & I Corporation, and Ben Tom Supply Company. House beams, stairs, mechanical equipment components, bridges, guardrails... Anything he could make.



*Michigan Bell job, Detroit, 1971*

In 1971, Bernard contacted his brother-in-law, LaVergne Pabian. LaVergne is a talented math and physics major who started out teaching, then got drafted for the war. After his tour of duty, LaVergne went back to teaching, but was yearning for something more. When Bernard called, LaVergne took a weekend away from his home in Missouri to visit his brother-in-law and the steel fabricating company. "I want to grow this business. Come work with me," Bernard suggested. The making of a family business had begun. Larger structural jobs soon followed for Michigan Bell, Ashland Chemical, and Bob Evans.



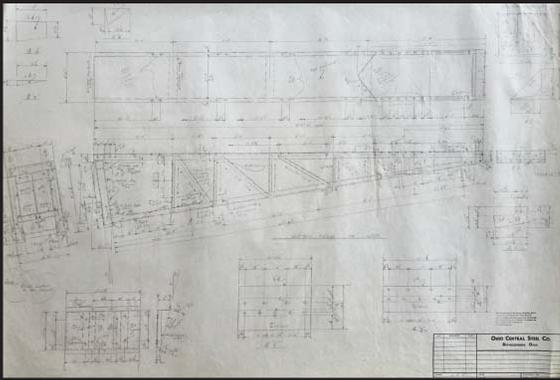
*Founder, Bernard Cohen, 1972*

SMI is a 2nd generation, 50 year old family owned business passionate about serving the needs of our customers.



*LaVergne Pabian, 1972*

# HOW IT ALL BEGAN



*The first design*



*First plate feeder screening plant*



*First conveyor*



*Early feeder*

**W**ith Bernard's determination and LaVergne's mechanical expertise, Ohio Central Steel branched out and began to search for a product to expand their market. They wanted to find a product to build and sell in addition to the structural steel jobs that were the company's bread and butter.

In 1978, Bernard made a cold call to W. W. Williams, one of the nation's largest industrial distribution, repair and service companies, that changed everything. The VP of aggregate operations at W. W. Williams, asked if OCS could design a heavier-duty, American-made version of a portable screening plant being produced and imported from Europe. These portable machines eliminate the costly need to transport sand, gravel, coal, etc., to giant stationary plants. With portable machines, the aggregate can be processed right at the job-site, a huge leap forward in the future of the aggregate industry.

Through the combination of customer input, LaVergne's mechanical expertise and Bernard's desire to design and build the most heavy-duty machines on the market, the company was able to create a machine that utilized a system of screens to sort and separate different types and sizes of aggregate.

*The foundation for Screen Machine Industries was born.*

*We were committed to design a machine that was better than the competition. We were one of the first factories in America to build this line of products and have accessible parts right here in the USA. Attention was paid to every detail... We designed it, built it, drove it to the customer, and then set it up for them.*

*Convinced of the quality of our products, we offered customers a chance to have a trial run of our machines. We would transport a machine to customers who said, "I'll try it. If I like it, I'll buy it." We'd let them try it, then offer to either hook on and pull it back to the factory, or sell it to them. We NEVER had to hook up and pull our equipment back home.*

*Our machines are that good.*

Early stationary plant



Early conveyor with example of tapered truss design



The quality of our designs and workmanship are evidenced by some of our oldest working machines. Built in the 1980's, many of these machines are still in operation today. The "Buy American" philosophy was a huge part of the 1980's American economy and a big factor in the timing of our introductory success.

Ohio Central Steel was growing, but the name sounded too small and localized. We felt the need to have our name reflect our designs. In 2005 we renamed our company Screen Machine Industries.

**PURCHASE ORDER**

CONSTRUCTION MACHINERY CORP.  
12000 W. 12th St. #100  
Cincinnati, Ohio 45240  
Tel: 513-763-1100

OHIO CENTRAL STEEL COMPANY  
2000 4th St. S.E.  
Knoxville, Ohio 43108

DATE: 11/17/80

TO: 11-17-80

FROM: CONSTRUCTION MACHINERY CORP.

ITEMS:

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
1	12' x 8' Double Deck Tapered Screening Plant with 1400# Vibrant Toms and 1/2" x 1/4" Bars	1	209,500.00	209,500.00

TOTAL: 209,500.00

TERMS: Net 10th

DATE: 11/17/80

SPECIAL INSTRUCTIONS: *Check Book*

**INVOICE**

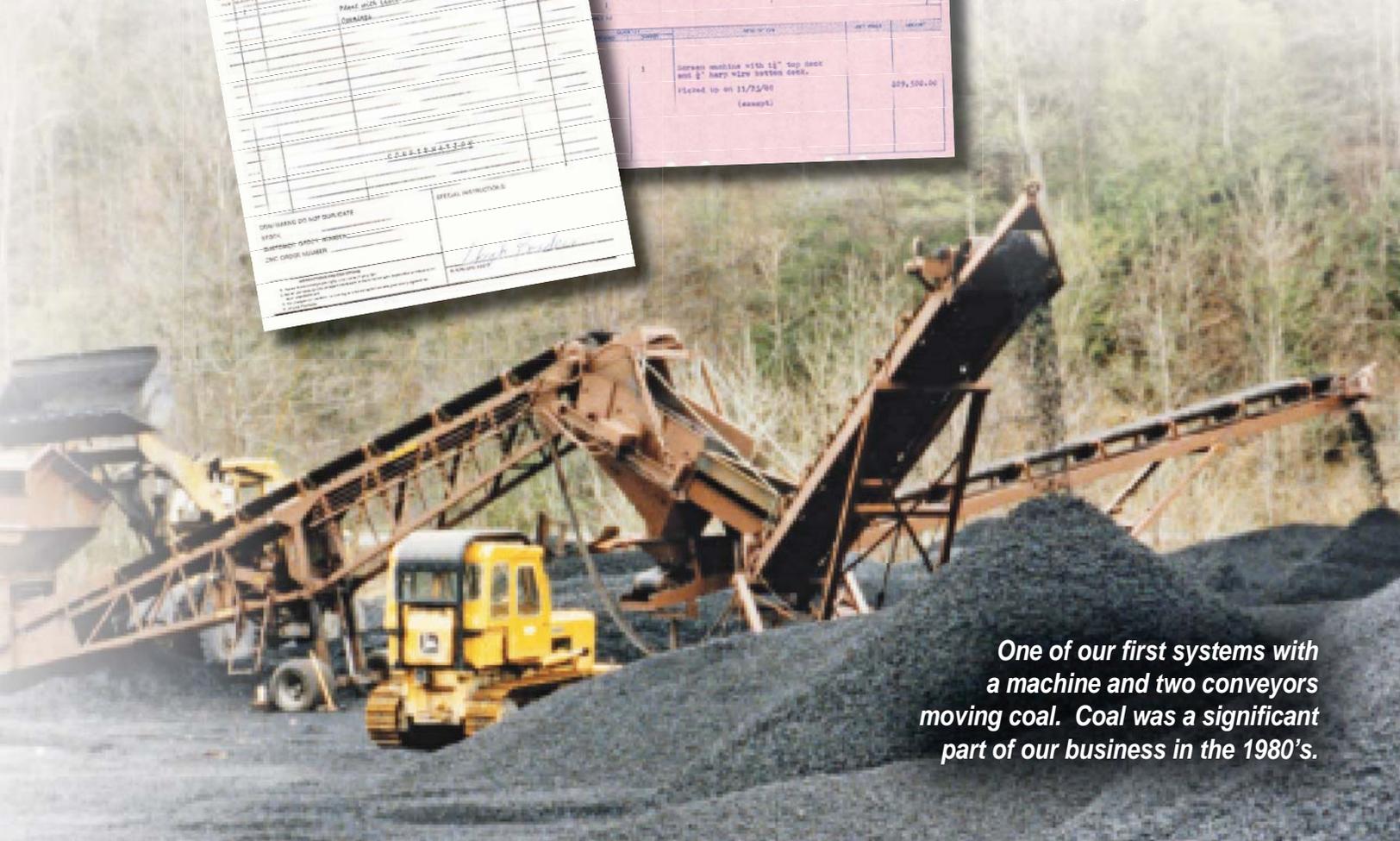
OHIO CENTRAL STEEL COMPANY  
2000 4th St. S.E.  
Knoxville, Ohio 43108  
Phone 614-866-0112

INVOICE NO: 8045  
DATE: Nov. 26-80

BUYER: CONSTRUCTION MACHINERY CORP.  
P.O. Box 9906  
Louisville, Ky. 40299

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL PRICE
1	Screen machine with 12' top deck and 1/2" heavy wire bottom deck. Picked up on 11/15/80 (except)	1	209,500.00	209,500.00

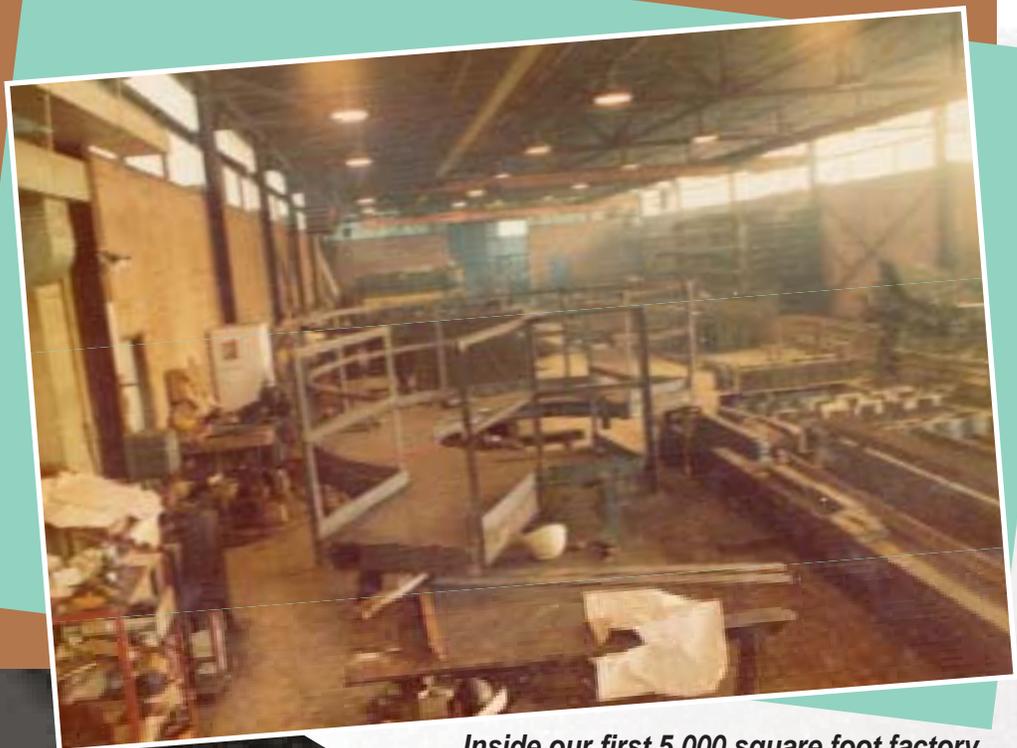
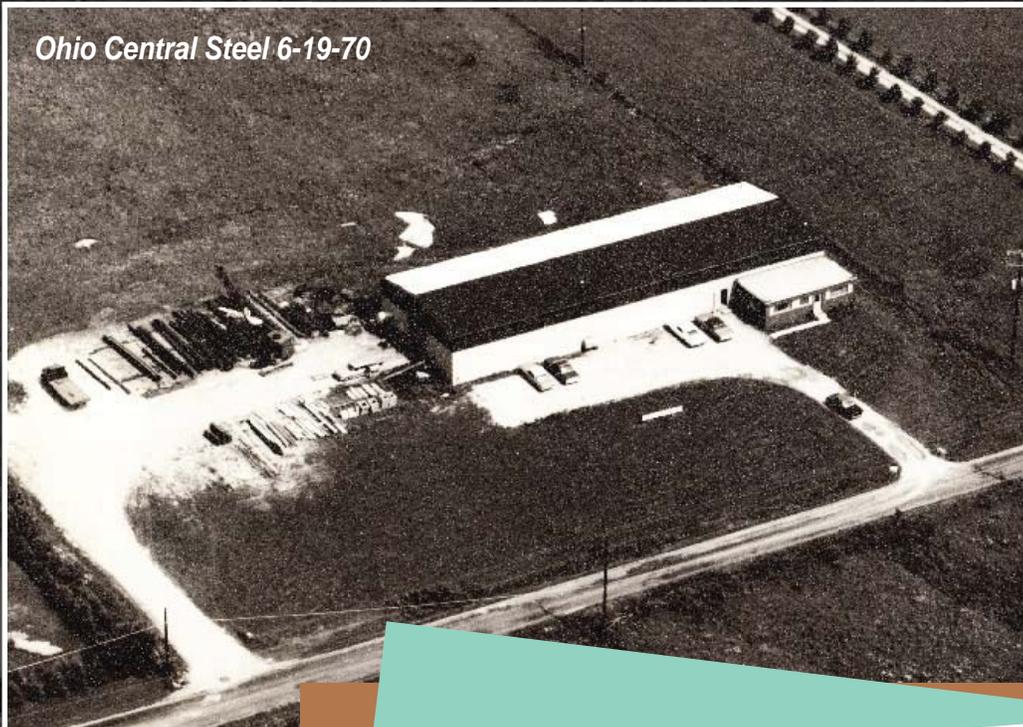
Early purchase order and invoice, November 1980



One of our first systems with a machine and two conveyors moving coal. Coal was a significant part of our business in the 1980's.

# PLANT PROGRESSION – FACTORY #1

*Bernard Cohen purchased land in 1966 on a country road, in the middle of a field, in Reynoldsburg, Ohio. Our first factory had 5,000 square feet and was located at 7791 Taylor Road Southwest on a 5-acre tract of land. Ohio Central Steel opened its doors for business in 1967.*



*Inside our first 5,000 square foot factory*

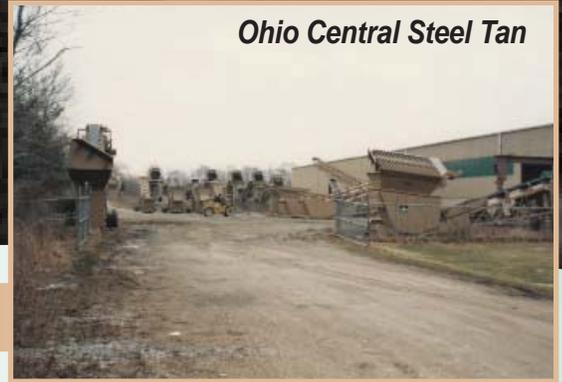
*Ohio Central Steel Brown*



*Equipment color  
changed in the 1980's  
from brown to tan.*



*Ohio Central Steel Tan*



**A**s we began to manufacture equipment, we needed to choose a trademark color to help customers identify our machines. Ohio Central Steel's first machines were painted brown, but by 1983, as our product line offering grew, our color was changed to tan.

Our color wasn't the only thing destined to change, and during our time at the Taylor Road location, we grew to the point of needing to build on to expand our factory space. Due to increased demand, we added onto the existing building three times, but we soon outgrew the small tract of land that the company started with. Realizing that our remote location wasn't the best choice for us to continue to expand upon, we began to search for our next home.



*Ohio Central Steel expansion under construction*



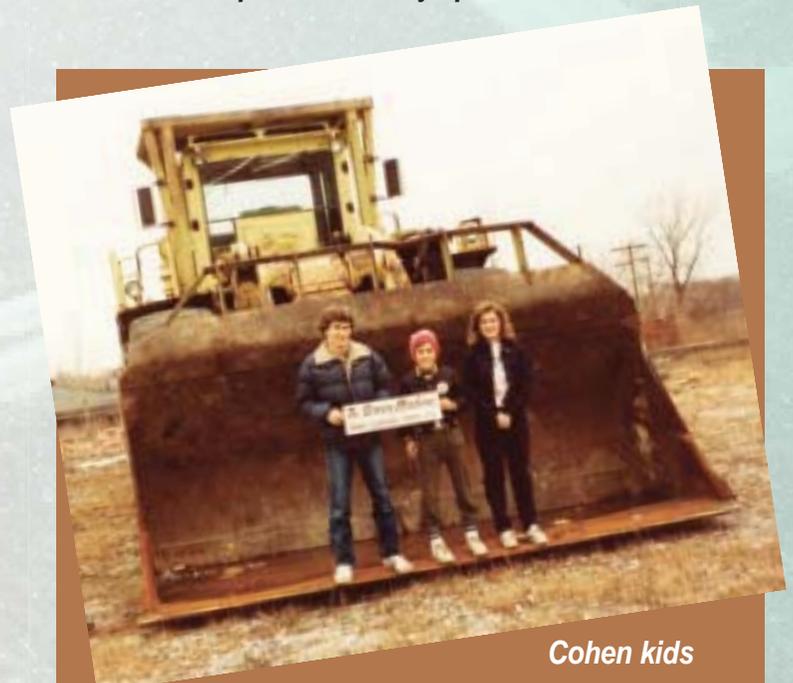
*Ohio Central Steel in 1982 with 18,000 square feet of expanded factory space*

*Screen Machine Industries takes pride in our family heritage. The whole Cohen family worked in the business.*

*Bernard's wife, LaJune, was active in the business as the company secretary and handled payroll.*

*Their three children worked summers at the factory, learned hands-on, and eventually joined the business full-time.*

*Three children with three complementary skill sets. Natalie excels at finance while Doug's niche is engineering. Steve, currently the president of SMI, brought his marketing and sales talents to the company.*



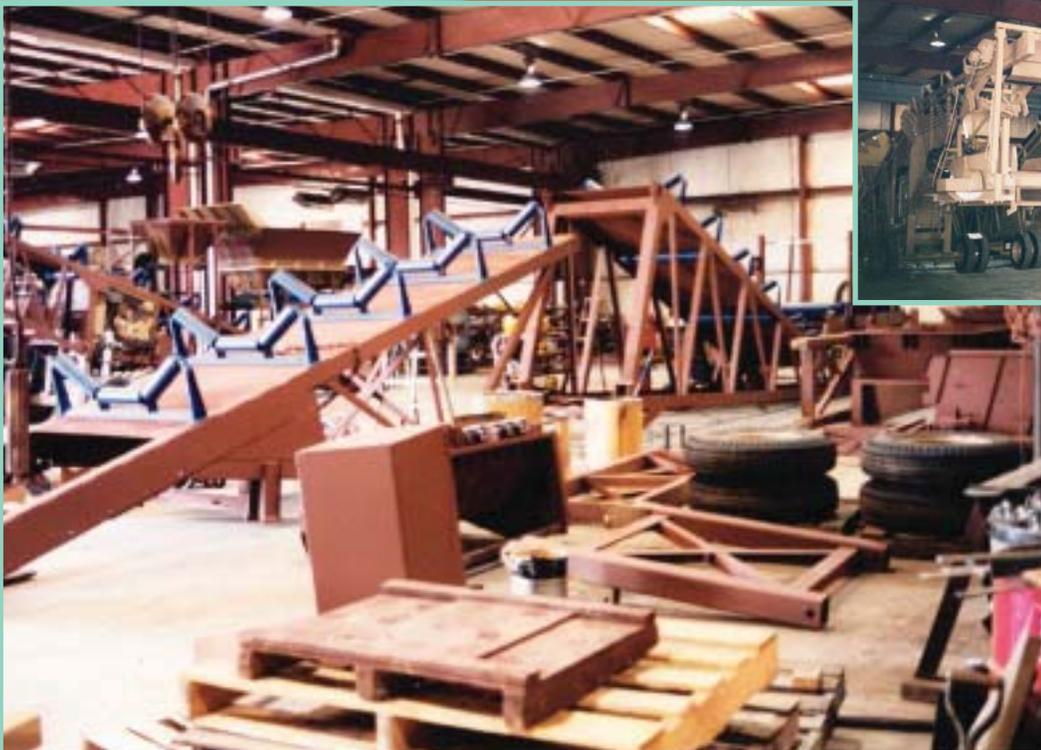
*Cohen kids*

# FACTORY #2

**O**ur company's next home was located close by, still in Reynoldsburg, but in a less remote area. In 1986, we moved our factory to 7001 Americana Parkway. Here we built a brand new 35,000 square foot facility on a 5-acre tract of land.



*Factory #2 with 35,000 square feet under construction in 1986*



*Factory #2 primary assembly department*



*Factory #2 final assembly*

**Ohio Central Steel Tan**



*Equipment color changed again from tan to yellow in 2003.*



***“We will never have to move again,” predicted company founder, Bernard Cohen. However, the still-growing equipment manufacturer’s inventory and sales were steadily out pacing the 35,000 square feet of their new home.***

***The Americana Parkway facility, which was two times larger than their previous facility, was expanded twice up to 55,000 square feet until the surrounding land was exhausted. Business was growing through distribution into new territories and an expanding product line of four new models, including the Maximum, Developer, Producer, and Pulverize II. After the 2002 introduction of track mounted screening plants, and of rock crushers in 2004, the need for additional space was undeniable and the search for a new location began again.***



***Inventory prepared for sale***



***Aerial view of our Americana Parkway facility***

# FACTORY #3

**M**aking the hard decision to move an entire manufacturing facility a second time was daunting. Our market had grown substantially, overflowing our current space when we heard of an opportunity to purchase a large tract of land in a desirable location. Being located in a place so easily accessible to the Interstate seemed like a proposition too good to pass up. Screen Machine Industries was moving once again to a location on I-70 East of Columbus, Ohio.



Construction of our new factory and current home, was completed in 2006. We had a new, modern factory with 125,000 square feet of manufacturing and office space.

We are proud to own and operate a family business, with a first-class manufacturing facility here in the United States. Providing jobs through increased manufacturing on American soil are values we hold dear. We were among the first of our kind to build this line of products in the USA.

**“Our machines have always been strong, powerful and durable, because that’s the way we wanted it to be from the beginning.”** ~ Bernard Cohen



**Founder, Bernard Cohen**

Screen Machine Industries stands for quality. For 50 years, we’ve been manufacturing the most durable and reliable machines in America – equipment built stronger than it needs to be, to tackle more than it needs to do.



*Custom factory cranes can easily lift and transport tons of heavy equipment across the entire facility.*

*Aerial view of our state-of-the-art facility off of I-70 in Columbus, Ohio.*



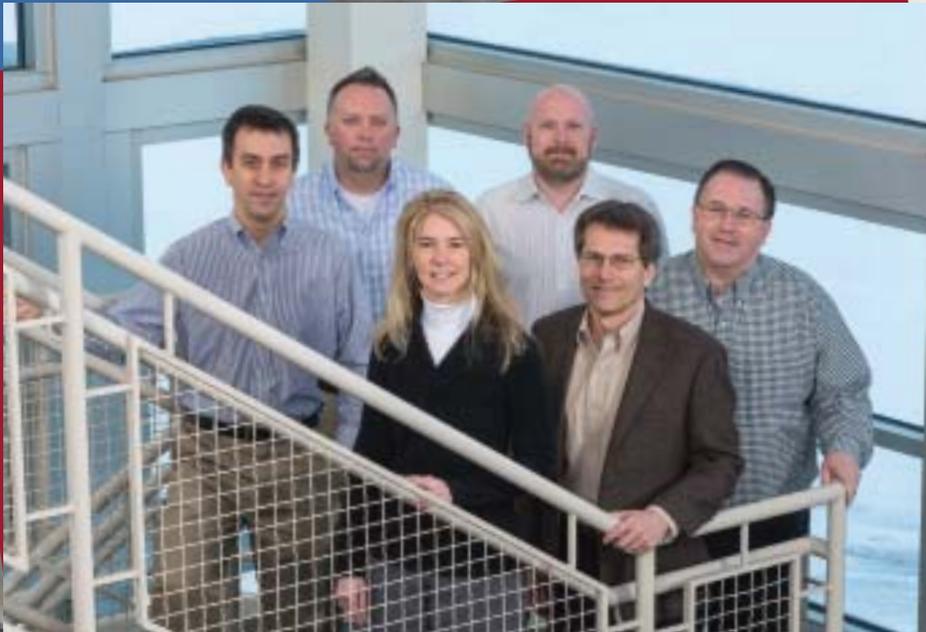
*Boasting over 125,000 square feet, our state-of-the-art facility sits on 14 and a half acres with room to grow. Form, as well as function graces our buildings' front sector. The curvature of the 2-story atrium-like entryway's architecture echoes the arched design of our machinery. Our staircase construction utilizes "screens" as a functional design focal point.*

*With a prominent and highly visible location, Screen Machine Industries' corporate headquarters is now a well-known landmark along the I-70 interstate corridor.*



# PEOPLE & DEPARTMENTS

*At Screen Machine Industries, we understand that our employees are our most valuable asset. At the heart of our company is a 50-year heritage of family values. We extend these values into our relationships with our employees and are proud to be an employer that appreciates each person, in every job, in every department. The longevity of service of our employees proves that they share our commitment to be the very best at what we do.*



## ***Our Leadership Team***

***Doug Cohen***

***Jody Beasley***

***Kristi Hoskinson***

***Josh Magrath***

***Steven Cohen***

***Mark McGuire***



## ***Our Fabrication Team***

***Allan Thompson***

***Brittany Nichol***

***Ben Habel***

***Kevin Wetherell***

***Terry Cravens***

***Christopher Dunn***

***Derek Baker***

***Paul McGill***

***Cody Conkle***

***Dale Hrubes***

***Justin Stoneburner***

***Ernie Shover***

***Jeff Smith***

***Justin Robinson***

***Jesse Holmes***

***Mat Croston***



***Our Sales & Marketing Team***

***Mike Thurman  
Timothy Miller  
Jeff Williams  
Matt Johnson***

***Our Purchasing  
& Staging Team  
Keith Drake  
Amy Young  
Josh Northup  
Timothy Walsh  
Benjamin Gilbert  
Kevin Snively***



***Our Engineering Team***

***Tyler Woolard  
Mauricio Escobar  
Christian Weber  
Matt Brinkman  
Mike Zamiska  
Aaron Witte  
Michael Stepien  
Brian Williams  
Ben Hedges***

# PEOPLE & DEPARTMENTS



***Our Painting Team***  
***Dustin Queen***  
***Tim Coleman***  
***Ben Amspaugh***  
***Anthony Malzone***



***Our Product Support Team***  
***Mark Steele***  
***Mike Newland***  
***Scott Wagner***  
***David Shroyer***  
***LaVergne Pabian***

***Our Manufacturing Supervisors & Leads***

***John Curtis  
Richard Garey  
Dan Housley  
Christopher Miller  
Michael Carter  
John Burns  
Travis Reeves  
Jerrad Smith  
Bryan Rose  
Jack Hartley  
Bob Murnahan  
Vince Ervin***



***Our Assembly Team***

***Andrew Webb  
Eric Landaverde  
Kevin Grant  
Carlos Landaverde  
Ben Utzinger  
Troy Smith  
Travis James  
Keith Stidham  
Tom Comston  
Wayne Ellison  
Mark Bowman  
Rory Thomas  
Zach Whitney  
Bradon Young***



Our people make the difference.  
Our success is due to strong leadership,  
a willingness to listen to our customers,  
and talented employees.

# THE CRANE GROUP

*“Our partnership with SMI has grown immensely over the past three years. We marvel at SMI’s loyal, hard-working group of associates who strive to produce the highest quality machines for their customers. We learn from their engineering prowess and innovative culture. We are very excited about our future together.”*

*~Tanny Crane*



Tanny Crane  
President & CEO, Crane Group



## OUR PARTNERSHIP

*In 2012, SMI’s Doug Cohen began a conversation with our own Jim Winnegrad, VP Tax/Treasurer of Crane Group, at a local education foundation fundraising event. The two men started talking about each of their businesses and discovered that they had a shared vision. Both SMI and Crane Group are family-owned businesses with a rich heritage dedicated to giving back to the local community.*

*SMI was in a unique position. Since the beginning, they had maintained a debt-free operation. However, in order to meet the demand of the double digit growth they were experiencing, it was obvious that they needed to expand their capital resources. Doug shared how SMI also wanted to grow and expand internationally. Jim began describing how Crane Group partners with companies to help them achieve their goals by working together to combine shared experiences, resources and personnel.*

*Crane Group was able to provide the resources to help manage SMI’s growth, and also to furnish leadership training and expertise. That was the beginning of our relationship and we are proud to partner with Screen Machine Industries to the next level and beyond.*

*Crane Group left to right:*

*Chad Utrup - CFO and EVP  
Christine Murry - VP and General Counsel  
Kevin Kuhlwein - IT Director  
Tanny Crane - President and CEO  
Dan Crane - Financial Director  
Pam Smith - Human Resources Manager*



## ABOUT CRANE GROUP

*Founded by Robert S. Crane, Sr. in 1947, Crane Group is a private holding and management company based in Columbus, Ohio. His early, inventive manufacturing techniques and hands-on business style earned Robert S. Crane, Sr. a reputation that lives on today.*

*Our holdings comprise a network of local, regional, and global companies in both manufacturing and service companies, including Screen Machine Industries. Our products and services are known for being innovative, high quality, and backed by some of the strongest warranties in the industries we serve.*

*We are a family-owned business, and celebrate and uphold the values, passion, and drive established by the first generation's leadership. They are reflected every day in the uniquely loyal tenure of our associates; the enduring relationships we've built with customers, distributors, and suppliers; and the committed philanthropic role we play in our community.*

*We're known for our community leadership and passionate support of the arts, social services, education, and other civic affairs. It's been an important part of who we are for three generations.*



# DESIGNING A NEW PRODUCT

We have over a century's worth of design and engineering expertise going into every new product. Our engineering group is also the most creative and agile in the industry. We are constantly adapting the latest manufacturing techniques and methods to build the most economical and efficient products on the market. Our creativity and experience allow us to quickly respond to our customer's continuously changing needs. From minor modifications to entire new machine designs, we can meet the unique demands of our individual customers. Take a closer look at the process we use to create our machines.



## **PHASE 1: Conceptual Sketches**

Our process starts by listening to our customers and brainstorming solutions to their specific needs. During this initial phase, we utilize conceptual sketches and put ideas to paper. Finding possible machine layouts, defining the machine's purpose, and specifying the required features to fulfill that purpose are all elements of this initial phase.

## **PHASE 2: CAD**

Once a design is conceptualized, the next step is to test the feasibility of the conceptual sketches. 3D computer modeling is used to create a more detailed machine layout. It is during this phase that the machines start to come to life.

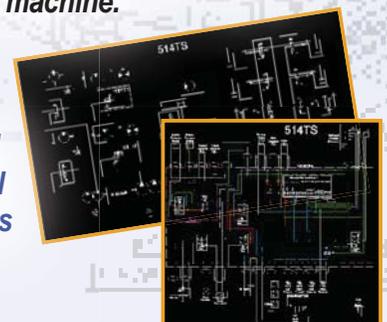


## **PHASE 3: Component Design**

At this stage, we work through the process of identifying and sourcing components necessary to run the machines. This includes the hydraulic, electrical, and mechanical components. We integrate components to work cohesively to operate the machine.

SMI continues to advance its engineering capabilities and maintain its industry leading position. Investments in computer-aided design, such as the latest version of the Solidworks® 3D solid modeling software, allow us to create the most efficient, productive, and robust designs in the industry.

**Hydraulic and electrical schematics**



## Design integration meeting

### PHASE 4: Design Integration

During this part of the process we call upon a talented and experienced group of people to collaborate on the benefits and disadvantages of each design option. Participation in this phase comes from all areas of SMI, including our innovative designers, product support personnel and assembly leads. Valued input from our manufacturing experts, our dealers and our customers is also brought into the design process. If necessary, designs will repeat phases 1-3 until they have been collectively approved.

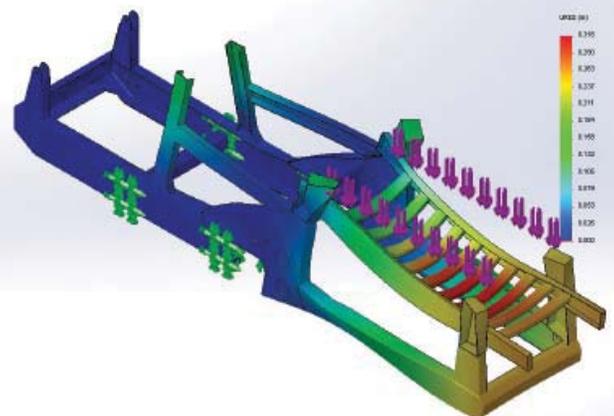


## FEA analysis of 514TS mainframe

### PHASE 5: Computational Analysis

Attention to detail is the main focus of this phase. Major structural components, such as mainframes, undergo computerized Finite Element Analysis (FEA). Our engineers use theoretical calculations to verify design concepts and to test the machine's abilities. Examples of calculations used in machine design include track turn ability, screen bearing life, and hydraulic system inefficiencies.

Model name: FEA\_Power  
Model name: 514TS  
File type: Solid Mechanics (Displacement)  
Date/Time: 11/18/2012



Screen Machine Industries is a leader in engineering. We have some of the best minds in the world, and we continually evolve our engineering capabilities to remain on the cutting edge of the industry.

# DESIGNING A NEW PRODUCT

## **PHASE 6: Research and Testing**

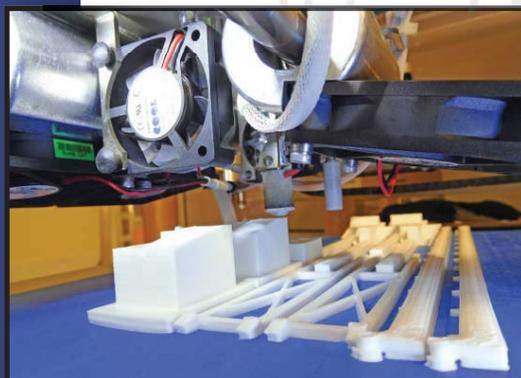
Once the design has evolved beyond the conceptual phase, physical testing of the design begins. Our engineers validate the computational analysis with hands on research and testing. In the photos below, our team is inspecting the 514TS conveyor's unique folding design. This design innovation allows the conveyor to be folded against the side of the machine for simple and efficient transportation.



## **PHASE 7: Design Optimization**

Using the results from research and testing, we decipher the optimal design of the product. This includes evaluating cost, ease of manufacture, safety, and overall aesthetics of the machine. This process is aided by the use of state-of-the-art 3D printing technology where 3-dimensional components are able to be tested prior to production.

Our design optimization process is enhanced by the use of 3D printing.



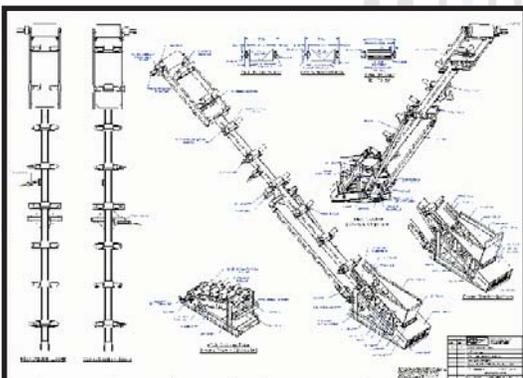


### **PHASE 8: Finalized Design**

*The details have all come together to form the prototype design. At this stage, we are confirming all aspects of the machine, ensuring prototype construction can commence. It all started with an idea in one's head, and now we have a finished design to build from.*

### **PHASE 9: Prototype Construction**

*Prototype construction is one of the most dynamic stages of the process. It is at this point, the machine is starting to be physically created. Creating production prints is the first part of the process. Brake press prints, fabrication prints, and assembly prints are all developed and plasma table tooling begins. Ways to improve fabrication and assembly time are continually sought out to maximize construction efficiency.*



**Assembly print**



**Plasma tooling**

# DESIGNING A NEW PRODUCT

## ***PHASE 10: Field Testing/Product Enhancements***

*Field testing the completely assembled machine and seeing the machine run for the first time is exciting for everyone involved.*

*Durability testing is paramount in this part of the process*

*as we engage our machines*

*in a significant number of*

*runtime hours. Placing*

*the machine in extreme*

*conditions such as heat,*

*unfavorable material, and*

*continuous maximum*

*production load are criteria*

*for our thorough field testing.*

*At this stage we continue to look for*

*ways to improve upon our designs.*

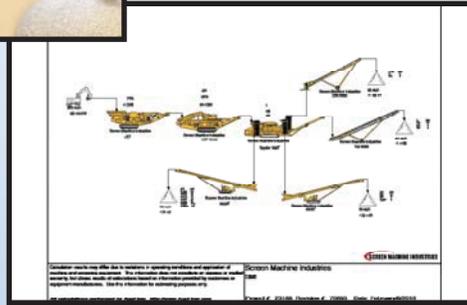


### PHASE 11: Preparation for Sales

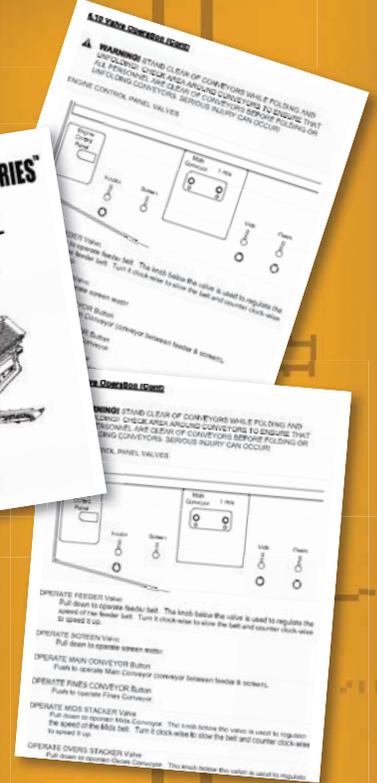
Once the machine has been field tested, it is time to provide resources for the customer. Service manuals are detailed and sales staff are given sales training. Engineering the optimal site layout for our customers, we combine products for their correct applications, produce AggFlow charts and utilize scale models to enable us and our customers to see the best work flow scenarios.



Scale model site layout and AggFlow charts helps visualize optimal workflow.



Detailed hard-copy and electronic manuals are provided with all Screen Machine products featuring operational, maintenance and parts breakdown.



PHASE 12: The Final Machine  
The new machine is ready for full production!



# OUR MANUFACTURING PROCESS

*Our manufacturing facilities consist of two modern factories with over 125,000 square feet of advanced manufacturing capabilities including high definition plasma machinery, robotic welding equipment, CNC fabrication equipment and three state-of-the-art painting facilities. Working within these walls you will find some of the finest craftsmen in the industry. Join us as we walk you through a virtual factory tour, starting with the finest quality, raw American steel to our finished products.*



*Grade 80  
American steel*



*Plasma cut steel*



*High definition plasma cutter*



*Scribed part number*



**CNC brake press**



**CNC brake press operator**

### **STEP ONE: Cutting, Scribing & Bending**

**O**ur process begins by using the finest quality steel, including Grade 80 American steel plate, with the greatest strength and flexibility available in the industry today. Along with strength, it has a higher impact resistance for longer wear. Our commitment to build the heaviest-duty and highest quality American made machines starts right here.

Each piece of steel is scribed with part numbers for easy identification. Unsurpassed quality in steel construction includes precision high definition plasma cutting, which provides incredibly accurate cuts with minimal steel wasted.

After scribing and plasma cutting, the steel pieces are sent to the CNC brake press to be bent to the proper angles by our highly-trained technicians. Now it's time to fit and weld the steel pieces.



**Parts are scribed, cut, and bent, ready for welding.**

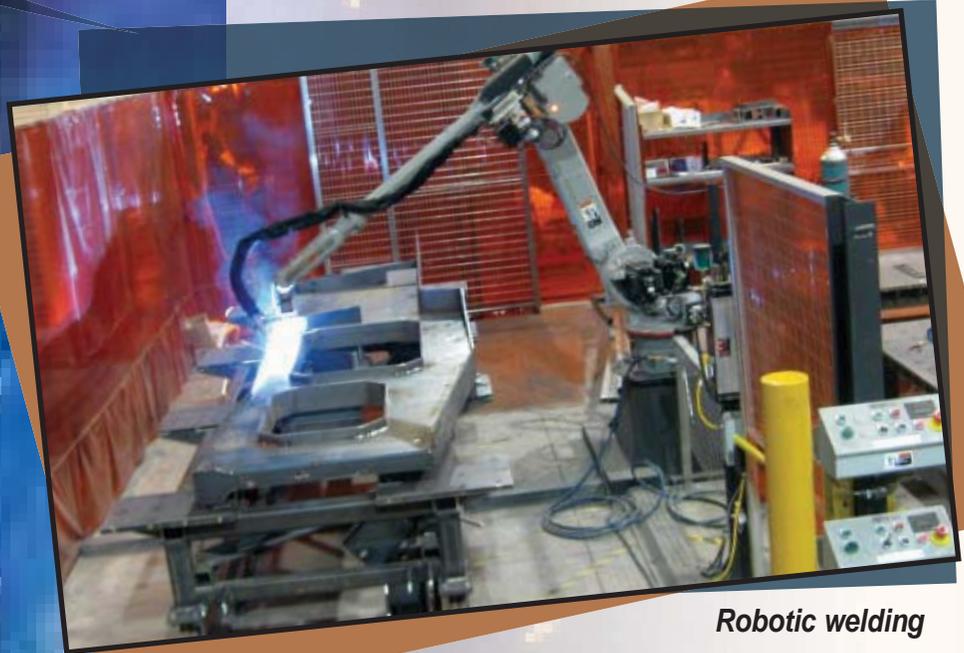
Grade 80 steel offers greater strength and flexibility when designing machinery. This creates an advantage over competitors with a significantly higher quality product without the expense of more weight. Along with strength, it has a higher impact resistance for longer wear life.

**High definition plasma cutter**

# OUR MANUFACTURING PROCESS

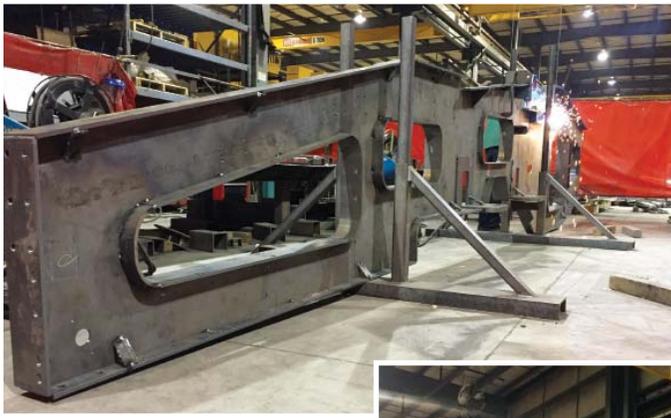
## *STEP TWO: Fabrication & Painting*

**T**he fabrication process starts by fitting together the various parts needed to create the main body of the machine. Our technicians utilize robotic welding technology, and can achieve incredible precision and accuracy. Proper penetration guarantees maximum strength is achieved with each weld.



*Robotic welding*

Manufacturing in the USA has for generations followed a tradition of quality craftsmanship, durability, and innovation. That drive for quality guides us in every phase of engineering, fabrication and assembly.



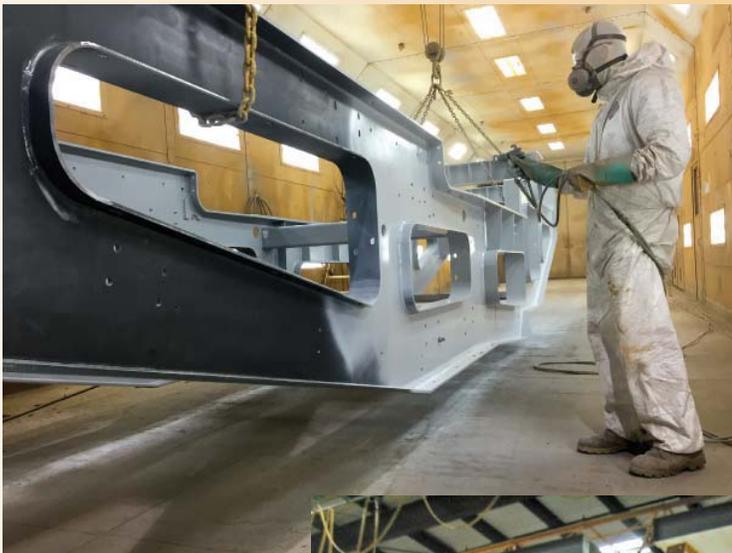
*Fitting frame sides*



*Welding fabricator*



*Frame fabrication*



*Primer first coat*



*Enamel second coat*

*Once the fabrication of the frames and structural components are complete, the parts are thoroughly cleaned and prepared for the first of up to three coats of high-quality Sherwin Williams paint. Our skilled painters, working in state-of-the-art painting facilities, then begin to apply the first coat. This gray primer serves as a base coat and a rust preventative layer. The second*

*coat applied before assembly is a yellow protective enamel. By using long-lasting, advanced technology paints we ensure our product's appearance, durability and protection during use in on-site applications.*

# OUR MANUFACTURING PROCESS

## *STEP THREE: Primary Assembly & Final Assembly*

**O**nce the first two coats of paint have been applied and cured, the process of primary assembly commences. Primary assembly starts by setting the main frame of the machine onto the tracks. Next, subsections of the machine are built by assembling engine compartments, conveyors, feeders, screens and crushers. The sub-assemblies are then attached to the mainframe.

*After the engine sub-assembly has been installed, the machine is started for the first time and driven into the paint booth for its third and final protective coat of enamel paint. Once cured, the machine is ready for its final assembly.*

*During the final assembly, the conveyor belts, screens and guards are attached. The next step is to apply the decals in the proper language for the machine's final destination around the world. At this point, the machine is ready for its final test run and inspections.*

*Several quality control checklists spanning across the company on multiple levels, from assembly leads, engineering and product support are engaged to ensure the final product is up to the highest level of quality standards. At Screen Machine Industries, we stand behind our products and we are committed to creating the best and the most innovative products available in the industry today.*

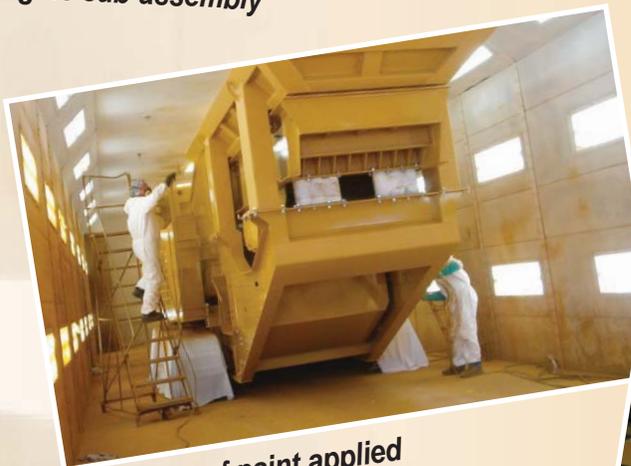
*Primary mainframe assembly*



*Engine sub-assembly*



*Installment of the various subsections*



*Final coat of paint applied*



*Final assembly, run testing and quality control*

Durability is knowing that the innovative engineering and quality components in a machine are going to last. The highest grade of steel and brand name parts come together in one machine with skilled hands and robotic precision. From the first cut of steel through the final weld, SMI defines American durability by outlasting the competition.

Screen Machine Industries incorporates many brand names like Caterpillar, Dodge and Precision into our products, adding integrity and reliability to the entire product line.

Whether the components are the vitals that run the machine or the minuscule details that bring it all together, we ensure every machine's performance by using trusted name brands.

# FACTORY-DIRECT PRODUCT SUPPORT

*Our factories are loaded with a tremendous parts inventory that is ready to be shipped for any Screen Machine product worldwide via Same Day, Next Day, Second Day or LTL/Ground Service. We also guarantee lifetime engineering and service telephone support on any Screen Machine product.*



*Our large, in-stock inventory of factory-direct parts are readily available for immediate shipping anywhere in the world.*

Detailed hard-copy and electronic manuals are available with all Screen Machine products featuring operational, maintenance and parts breakdown. Customers can quickly identify and acquire the parts needed to get back up and running.



*On-site training in Afghanistan*

**W**hen a working machine is down and in need of repair, it is imperative to quickly identify and acquire the parts needed to get back up and running. SMI understands this vital need and considers it one of our greatest strengths. It is SMI's goal to get all parts out the day they are ordered ensuring customer production time lost is minimal. Our advanced database ensures that the parts sent out will fit the specific model, and series of machine needing repair, even if the machine was sent out with customization years ago.



*Training class in Lebanon*

*Product support provides the necessary assistance when you need it most. Speaking with the product support engineers, design engineers and manufacturing engineers without waiting hours or days for a callback is crucial to limiting downtime. On-site set-up and training combined with online manuals, part breakdowns, update alerts and AggFlow calculations will give you the knowledge you need to get the most out of your machinery.*



*Quick response support from qualified dealers worldwide*

# PRODUCT LINE-UP

*Our award-winning product offerings are the contractor's choice for reliability and productivity. Screen Machine Industries manufactures only heavy-duty, portable crushing & screening plants that are capable of handling your toughest jobs.*



## CRUSHING



**P**ortable, track mounted impact, cone & jaw crushers can be very useful tools for reducing the size of rock in mining operations, aggregate production, road building operations, demolition / recycling companies and more. The waste generated from job sites in many cases can be recycled, re-purposed and reused to create other useful products and reduce landfill usage.

# IMPACT CRUSHERS

4043T



**The 4043T Impact Crusher** is a heavy-duty, 79,500 lb. track mounted impact crusher used to crush rock, concrete and asphalt materials.

It is powered by a 300hp Caterpillar engine and features a unique and patented crusher relief system that raises the crusher lid while in operation, allowing rock to flow through the crushing chamber without any unnecessary stoppage. The machine is operated by a wireless remote control handset.

## **The 5256T Impact Crusher**

is the larger of the two SMI impact crushers. Similar in design and purpose as the smaller 4043T, the 120,000 lb. machine is powered by a 475hp Caterpillar diesel engine and also features the patented crusher relief system. It is one of the largest track mounted impact crushers capable of being transported in one piece.



5256T

SMI manufactures two sizes of track mounted impact crushers. Impact crushers are designed to break up limestone and aggregates of soft to medium hardness with a reduction ratio of about 15 to 1.

The crushing chamber features a high speed rotor mounted on a horizontal shaft that impacts or explodes the large rocks against a wall to break the material into smaller particles. Impact crushers are used in quarry applications processing rock for road construction and building materials. Recycling operations commonly use impactors to crush old rubble, concrete, and asphalt into usable materials, saving valuable landfill space.

# JAW CRUSHERS

*SMI manufactures two models of track mounted jaw crushers. Jaw crushers break rocks with a high level of hardness and abrasiveness using compressive force between two plates. This includes one moveable and one stationary face, which form a "V" like crushing chamber. Large material is fed from the top and is reduced by the cyclical closing of the jaws, with the smaller material falling out the bottom. Hard rocks such as granite, iron ore and slag can be crushed at a reduction ratio of about 5 to 1.*

**The JHT Jaw Crusher** is a 98,000 lb. track mounted machine that can process harder materials mined from rock quarries. It is powered by a 300hp Caterpillar diesel engine and features remote control jaw adjustment to regulate the output size of the crushed material. It is considered a primary crusher with a rock reduction ratio of about 5:1 and is often paired with secondary cone crushers for further reduction.



**The JXT Jaw Crusher** is a track mounted machine similar in size and specifications to the JHT. It features a unique automatic blockage clearance and tramp iron relief system. The jaw opens automatically when an uncrushable object enters the rock crushing chamber and then returns to the previous setting after the obstruction passes through. This serves as a safeguard against potential damage from trying to crush an uncrushable object. All crushers are controlled by a hand held wireless remote control.

# CONE CRUSHERS



**The CXT Cone Crusher** is an 80,000 lb. track mounted unit with a heavy-duty 40" high speed cone featuring hydraulic adjustment and tramp relief. This unit offers high production of cubical-shaped material within a compact overall footprint. The structural frames and major components are fabricated from Grade 80 steel for strength and durability. Wireless remote control operation helps it integrate with SMI's other track mounted crushers and screens to form a complete portable system.

**The CST Cone Crusher** is a 115,000 lb. track mounted portable cone crusher plant designed for secondary crushing of hard rock into cubical sizes. This unit is equipped with a 51" heavy built cone crusher and features a shaker screen to pre-screen the fines out of the material prior to it entering the crushing chamber. This patented feature increases overall production and significantly reduces wear costs.



SMI manufactures two sizes of track mounted cone crushers. Cone crushers are typically considered to be secondary crushers, working to further reduce the stone size discharged from a primary jaw crusher. A cone crusher further reduces hard rock by compressing material between a gyrating mantle and a stationary bowl liner. Materials produced by cone crushers at a reduction ratio of about 5 to 1 are used to make road building materials for asphalt or concrete.



# SCREENING SCREENING



**P**ortable screening plants can be very useful tools for separating or “screening” aggregates or soils to different sizes. Used widely by contractors and quarry operators to produce specific size materials used in general construction, energy, highway construction, recycling, and landscaping industries.





## **The Scalper 107T Screening Plant**

is a 45,000 lb. multi-patented, track mounted screening plant designed to screen rock, soils, sand, gravel, concrete and other materials into two sizes. Heavy-duty Grade 80 steel construction is used throughout for extreme durability. Standard features include a unique wide feed opening over a patented set of shaker screens, large stockpiling conveyor, Yanmar® diesel engine, tracked undercarriage and wireless remote control operations.

## **The Scalper 107D Screening Plant**

is a 24,000 lb. multi-patented, heavy-duty screening plant designed for separating soils, aggregates and even scrap metal. With a wide feed opening, material is dropped directly on the patented dual shaker screens for two product separation. This machine is built with Grade 80 steel plate and a reinforced tubular structure for long life durability.



## **The Scalper 77C Screening Plant**

is a 19,500 lb. patented, wheeled unit capable of screening soils, aggregates and more. It works best when paired with a two yard front end loader. Standard features include a large feed opening, 7' x 7' shaker screen and stockpiling conveyor. It is small and compact enough to be easily towed to any job site.



# SCALPERS

SMI manufactures three sizes of patented screening plants called Scalpers. These machines, commonly referred to as box screeners, are designed to be loaded with soils or aggregate like material directly from a wheel loader or excavator to the vibratory shaker screen. The two deck vibratory shaker screen sifts or “screens” out two different sizes of materials, an oversize and a fines material, then discharges them into two different piles.

# SPYDERS

SMI manufactures four models of patented track mounted screening plants called Spyders. These plants feature a heavy-duty, multi-deck vibratory shaker screen capable of sifting or "screening" materials into three or four different sizes simultaneously. Once separated, the built in conveyors stockpile the finished products. Spyders can be fed with a loader or excavator in a stand-alone application or in line with any of the SMI crusher plants to form a complete system.



514TS

**The Spyder 514TS** is a 52,000 lb. self-contained patented track mounted screening plant designed for screening rock, sand & gravel, soils and other materials. The 5' x 14' reverse double-deck screen is capable of producing three finished products simultaneously. It can be used as a stand-alone screener or in conjunction with a crusher to recirculate oversized material back for further reduction.



622TH

**The Spyder 622TH** is an 84,000 lb. track mounted screening plant featuring a 6' x 22' horizontal shaker screen. It features a direct feed design, four finished product conveyors and wireless remote control. The oversized product conveyor swivels for closed circuit operation with crushers. This huge screen is designed for finish screening and generates excellent material separation.

# SPYDERS

**The Spyder 516T** is a 59,000 lb. multi patented screening plant designed to screen rock, soils, sand & gravel and construction & demolition materials producing three different sizes of product simultaneously. Standard equipment includes a 5' x 16' double-deck screen, 110 HP Cummins® diesel engine and tracked undercarriage with remote control movement & operation. The 516T's unique patented design allows for feeding from three sides with a loader or excavator.



**The Spyder 512T** is a 52,000 lb. track mounted portable screening plant with similar characteristics of the larger 516T. Grade 80 steel fabricated components deliver strong durability. The 512T features a 5' x 12' double-deck screen with Smooth Start Technology, 84 HP Yanmar® diesel engine, heavy-duty tracked undercarriage and remote control operation. The patented open hopper design permits feeding from three sides with a loader or excavator.





# TROMMELS TROMMELS

**P**ortable trommel screens are very useful tools for contractors and landscapers. These machines are also referred to as trommel drums or drum screeners. The soil generated from job sites and re-developed land in many cases can be recycled, re-purposed and reused to create great organic products for use with plant & tree nurseries, landscaping firms and more.

SMI manufactures three different models of barrel like rotating screening plants called trommels. Materials enter one end of the trommel drum, then tumble around inside the sloping cylindrical drum until they either pass through the screen openings or auger their way out the far end into the oversize pile. Trommels are used for screening softer materials like topsoil, compost, mulch and others. SMI's trommel plants are self-contained in wheeled or track mounted configurations featuring a hopper, trommel screen, shredder and conveyors.

# TROMMELS

**The Tracked 612T Trommel** is a 30,000 lb. self-contained, diesel powered, track mounted portable screening plant designed to screen out the rocks and oversize materials from topsoil, compost and other landscape products. It features wireless remote control operation and a direct open feed hopper. A large 6' x 12' trommel provides 160 square feet of screening area. The side discharge conveyor height allows for direct loading of trucks while the tracked undercarriage provides valuable windrow stockpiling capabilities.



**The Wheeled 612W Trommel** is a self-contained, diesel-powered, portable screening plant. Similar in design to the 612T, this unit is built on the same frame but offers a wheeled undercarriage. It is powered by an 84hp Yanmar diesel and offers an optional patented shredder and tipping grizzly. The pile height created by the side discharge conveyor provides hours of uninterrupted processing time as well as direct truck loading capability.



**The Might II Trommel Shredder** is a 4700 lb. portable trommel screening plant ideally matched to skid steers for processing topsoil, mulch, compost and more. The Might II is well-equipped with a diesel engine, high speed hammermill shredder to pulverize clumps of topsoil and a trommel screen to remove sticks, rocks, and other debris. Commonly used by nursery and landscaping professionals.



# CONVEYORS CONVEYORS

**P**ortable stacking conveyors can help any size operation be more efficient. Being able to stockpile large amounts of material in high and wide piles without constantly repositioning your equipment is key to uninterrupted productivity. Conveyors can be powered by hydraulic, electric or self-contained diesel power packs.

## TRACKED

**6036T Portable Track Conveyor** is a 60' x 36" track mounted portable stacking conveyor, powered by an 84hp diesel power module with wireless remote

control mobility. A counterweighted design combined with a channel frame structure of high strength Grade 80 steel creates unequalled strength and stockpiling capability. Hydraulic top folding head section is used for transport and quick set-up.



# RADIAL

**80 Foot Radial Stacking Conveyor** features a heavy-duty truss frame and fifth wheel tow. Available in 30" and 36" widths with a stockpile height of up to 35'.



**60 Foot Radial Stacking Conveyor** comes with a 36" belt and a maximum stockpile height of 25'-8". Deep truss frame design with fifth wheel or pintle tow is available with hydraulic or electric drives.



**50 Foot Radial Stacking Conveyor** is a heavy-duty channel frame conveyor offered with 24" and 30" belts that can stockpile over 20'. Easily towable and available with hydraulic or electric drive.



**40 Foot Radial Stacking Conveyor** is a channel frame conveyor offered in 24", 30", and 36" belt width that can stockpile up to 19'. It is available with a hydraulic or electric drive.



**30 Foot Radial Stacking Conveyor** is a channel frame conveyor with a 18" wide belt and can stockpile up to 13'-9". It is available with a hydraulic or electric drive and easily towed with a pickup.



# SYSTEMS SYSTEMS

*The total package.*

**S**creen Machine Industries is able to customize a complete system of production solutions to meet your specific needs. Take a closer look at a sample scenario of a system designed to meet custom production equipment needs.

## **CUSTOMER JOB SITE SCENARIO:**

The customer plans to set up a crushing and screening plant at a gypsum mine located in Oman. They want to move the machinery throughout the mine site to reduce trucking.

## **CUSTOMER GOAL:**

Their goal is to buy equipment necessary to take 24" gypsum rocks and crush them down to produce two smaller sizes of material: 1.5" x ¾" and ¾" to zero. **They want to process about 250 tons per hour.**



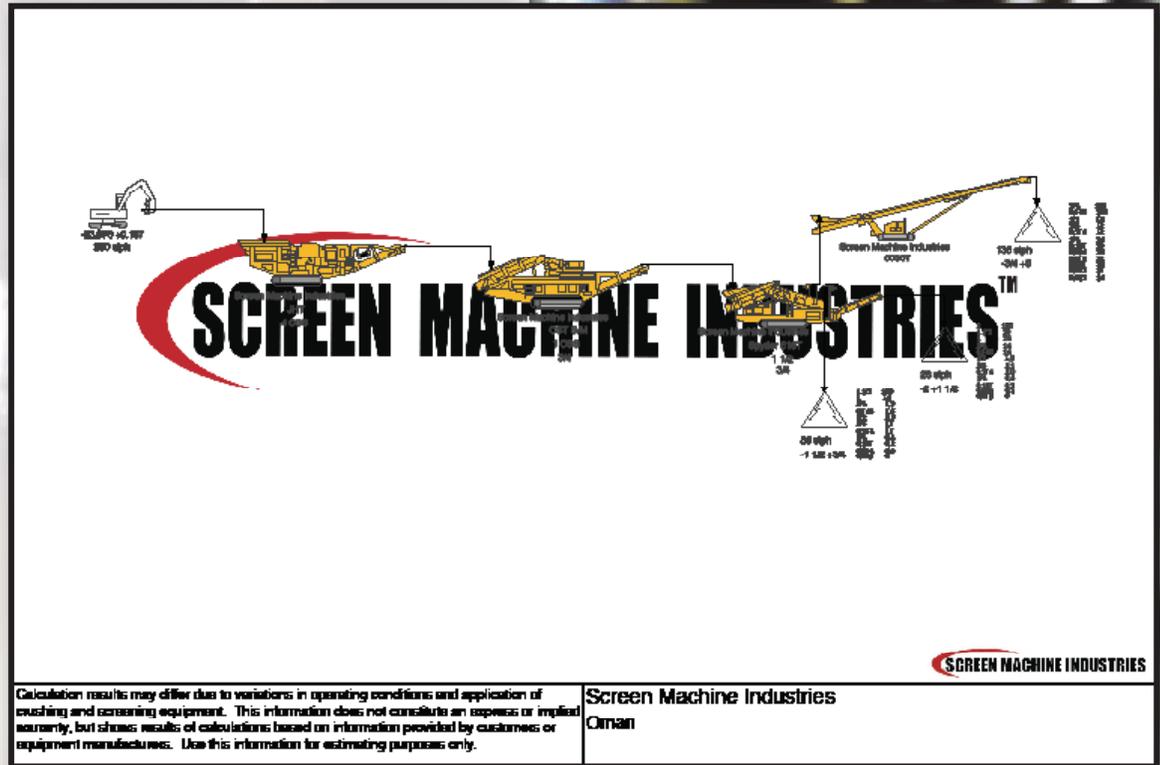
*Raw material*

## INITIAL PLANNING:

SMI works to identify the proper equipment to do the job. We configure the layout using a program called AggFlow.

With AggFlow layout, we can determine the approximate tonnage and percentages of different sizes produced. In this scenario, we have determined that the customer needs the JHT Jaw Crusher, CST Cone Crusher, Spyder 516T Screening Plant and an optional 6036T Tracked Conveyor to accomplish the task.

AggFlow drawing



## STEP ONE:

The gypsum is excavated from the ground and reduced with hammers to manageable 24" and smaller pieces. The rocks are loaded into the primary crusher called a JXT Jaw Crusher. The JXT will reduce the size of the rocks down to about 5 inch stones and convey the product to the next machine.



Our product offering provides production solutions ranging from 15 – 600 tons (14 mtph - 544 mtph) per hour across a vast array of applications such as rock, sand & gravel, concrete & asphalt, topsoil & compost products.

## STEP TWO:

The 5" stones are received by the secondary crusher called a CST Cone Crusher. It features a pre-screen

that separates the larger rocks yet to be crushed

from the smaller rocks and *fine* material already sized properly. The larger rocks

are dropped into the cone crusher for further reduction. The majority of the material discharged from the CST Cone crusher is now less than 1.5" and meets the requirements of the customer's two products.

A conveyor transports the crushed rock to the next machine.



## STEP THREE:

The crushed stone is received into the hopper of the Spyder 516T screening plant. The 516T has a two deck screen which separates the materials into three different sizes.

The top deck has a 1 1/2" screen and the bottom deck has a 3/4" screen. The three different sizes

of sifted materials fall through the shaker screen into three different conveyors for

stockpiling. The customer has the two *finished* materials sized and stockpiled ready

for use plus a third pile of oversize material to be re-crushed again for

future use.



## STEP FOUR: (OPTIONAL)

The customer may decide at some point to add a 6036T Tracked Conveyor for stockpiling higher capacity of storage.

The higher the material stockpile, the less you have to move it around.



## OVERVIEW:

The next picture shows the entire train of machines processing about 250 tons per hour, turning 24" gypsum rock into two aggregate sizes for construction materials. The entire spread is operated and moved with wireless remote control handsets from the operator sitting in the excavator.



# THE TOTAL PACKAGE



# INNOVATIVE PATENTS

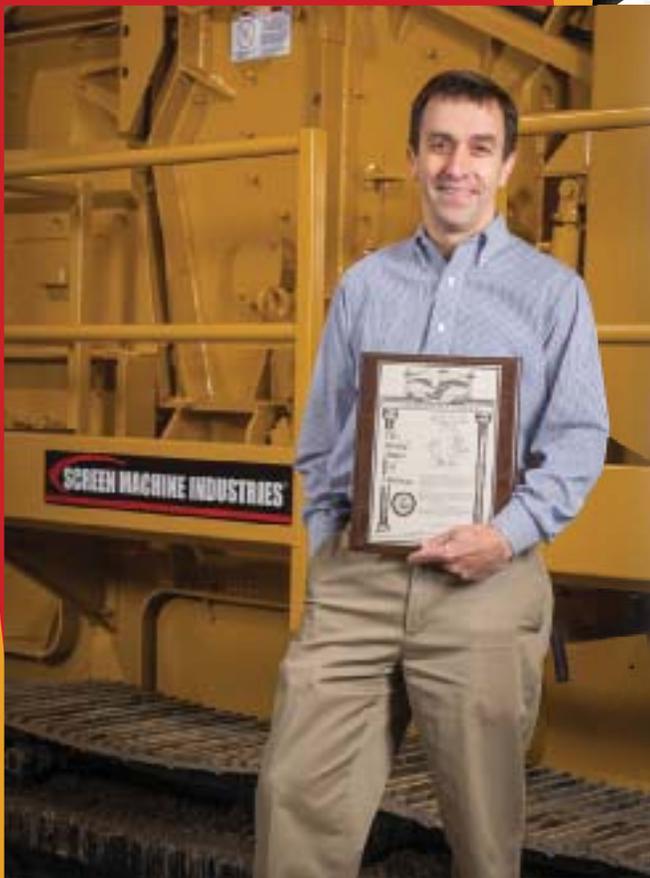
*We have over a century's worth of design and engineering expertise going into every new product. We are constantly adapting the latest manufacturing techniques and methods to build the most economical and efficient products in the market. The numerous patents awarded to Screen Machine Industries are a testament to our strong engineering capabilities.*

*At Screen Machine Industries, we deliver on the phrase, "Made in America" with patented designs produced right here in the United States. We are dramatically improving the standards of safety and productivity within the aggregate industry. The problems that have plagued job site production are minimized through our design innovations. Our machines meet the most rugged demands of our industry while providing unique features to give you the greatest productivity. Our creativity, experience, and agility allow us to quickly respond to continuously changing needs.*

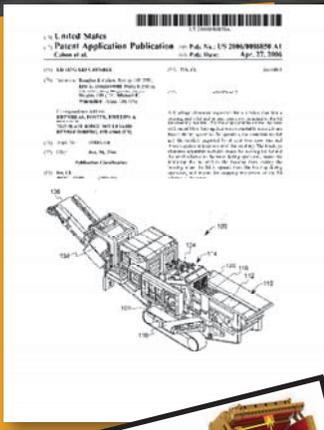
***"At SMI, we are setting the bar high for the aggregate industry by giving our customers greater use of their time, money and manpower."***

*~ Doug Cohen*

SMI engineers create unique, innovative screening and crushing plant designs protected by numerous U.S. Patents.



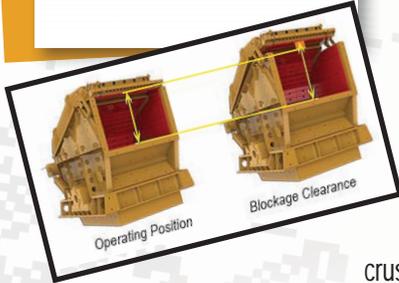
**Doug Cohen,  
Vice President**



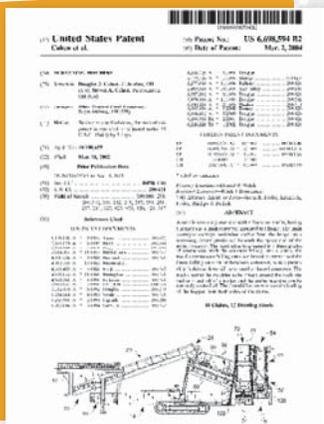
**U.S. Patent # 7229041**  
**Lifting Lid Crusher**

**INDUSTRY PROBLEM:** Large rock or pieces of concrete wedge and get stuck. The crusher must be shutdown while the jammed material is removed.

**SMI DESIGN SOLUTION:** With the touch of a button, the entire crushing chamber can be slightly opened, while the crusher is running, clearing the blockage.



**BENEFITS:** Creates more uptime by reducing the need to sort odd pieces and clears blockages safely and remotely, avoiding crusher shutdown.



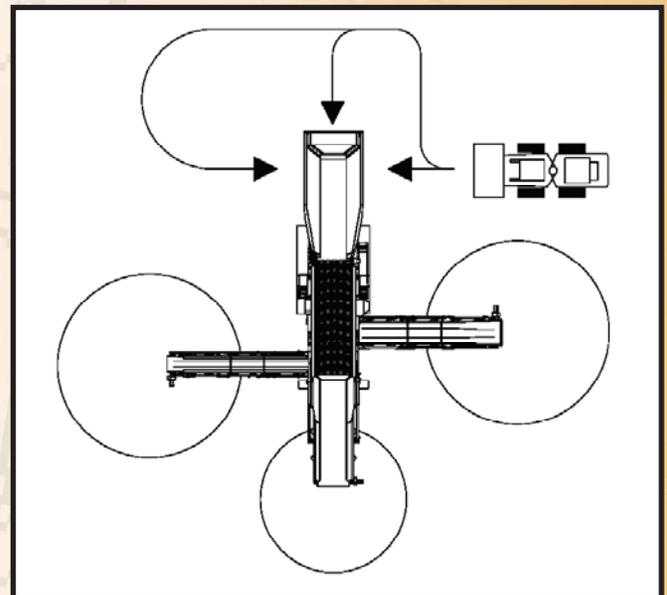
**U.S. Patent # 6698594**  
**Screening Machine (Spyder)**

**INDUSTRY PROBLEM:** Previous machines were site limited due the overall layout of the machine. The fines conveyor would make a pile directly in-line with the feed conveyor, thereby limiting how the overall machine could be fed material.

**SMI DESIGN SOLUTION:** We reversed the direction of the conveyor under the screen.

This pushes the fines conveyor from the feed end of the screen to the discharge end of the screen.

**BENEFITS:** Allows for ease of use on a variety of sites. Most importantly, it allows a loader to feed material from all three sides of the hopper, not just 2 sides.



**What are the requirements to be awarded a U.S. patent?**

*In the United States, there are requirements of patent eligibility. The United States Patent and Trademark Office (USPTO) states:*

*The invention must be useful.*

*The invention must be statutory. Meaning it is a process, machine, article of manufacture, or composition of matter.*

*The invention must be non-obvious.*

*The invention must be new. To be considered new, it must not be known or used by anyone else in the U.S. and must not be patented or described in a printed publication in this or a foreign country.*

# INNOVATIVE PATENTS

## **U.S. Patent # 6000553 Multiple Screen System**

**INDUSTRY PROBLEM:** Material loaded directly into a single wide screen box can crack in the middle of the screen box and fail. When a loader dumps material, this causes a maximum stress on the shaker screen at its middle and weakest point.

**SMI DESIGN SOLUTION:** Our Scalper machines use multiple screen boxes instead of one single unit. (This patent was originally for our first large "Scalper" machine, later replaced with our more advanced current designs for the Scalper 107T and Scalper 107D.)

**BENEFITS:** The advantage of this design innovation is twofold:

- 1) Stronger design – We utilize two independent screen boxes, eliminating the problem of having a single screen with a weak spot in the center.
- 2) Our clearances between decks are much larger than single screen box designs. This allows for better screening over a wider range of sized materials.



**Multiple screen system**

## **U.S. Patent # 7121487 Screening Apparatus with Hammermill**

**INDUSTRY PROBLEM:** Trommel screen machines are used in applications such as topsoil, where good quality clumpy material is unfortunately screened out as a waste oversize product.

**SMI DESIGN SOLUTION:** The hammermill shredder breaks up the clumps before the material enters into the trommel screen.

**BENEFITS:** With less material going into the waste pile, our machine yields more usable product.



**Screening apparatus with Hammermill**

**U.S. Patent # 6401933 Smooth Start**  
**U.S. Patent # 6669026 Smooth Start on**  
**track mounted equipment**

**INDUSTRY PROBLEM:** Shaker screens vibrate violently when operated at a low speed during warm up and shut down. This can create problems by seriously damaging the shaker screen and reducing the life of the screen bearings.

**SMI DESIGN SOLUTION:** SMI engineered a movable eccentric weight. This allows the eccentric weight to retract at low speeds, and therefore eliminate the shake at startup and shutdown. We use this design on all of our 2-bearing screens.

**BENEFITS:** There are three main benefits to this design innovation:

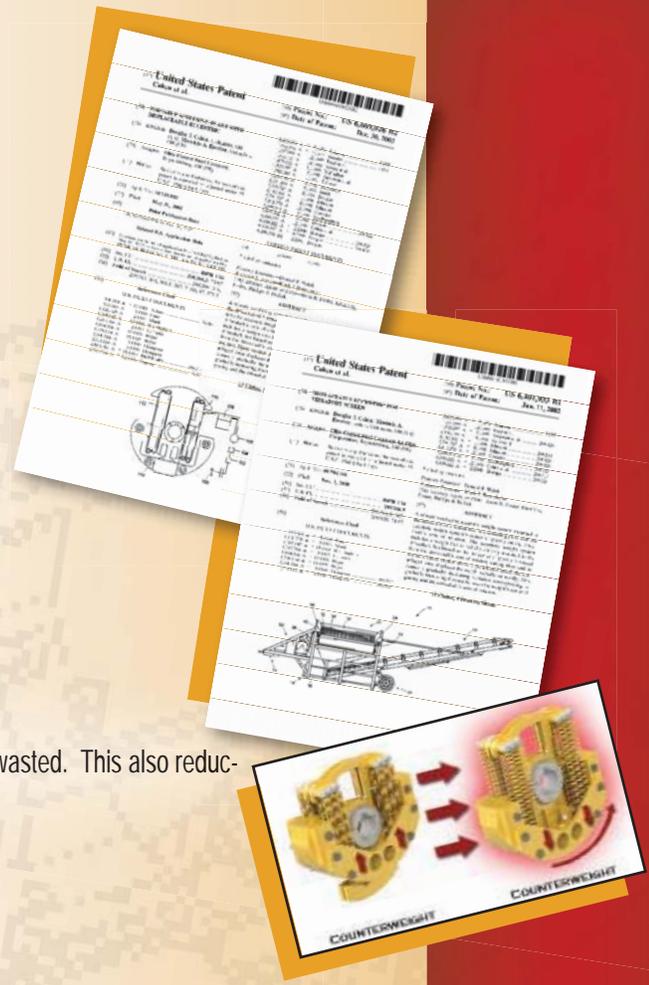
- 1) Increases the life of our bearings, structures, and components.
- 2) This design does not need large amounts of initial torque so smaller drive components can be used. In turn, this uses less horsepower and generates less heat wasted. This also reduces cost of components for driving the screen, reducing overall equipment cost.
- 3) The reduction in wear of the screen bearings allows SMI to design our shaker screens to have more throw than a standard design, making our screens more productive and efficient.

**U.S. Patent # 9186681 Cone with Screen**  
**(Apparatus for sizing and separating particulate material)**

**INDUSTRY PROBLEM:** Cone crushers are very heavy and expensive to operate. The more material processed through the crushers, the more wear and tear to the components.

**SMI DESIGN SOLUTION:** A feed conveyor takes material to a shaker screen mounted before the inlet of the cone. This ensures only oversize material passes into the cone.

**BENEFITS:** Reduces the need for a separate preliminary screening plant. Material that is taken out of the raw material stream is already sized to a finished product. Wear and tear to the cone crusher components is reduced, increasing longevity and cost savings as well as time between maintenance intervals.



**Cone crusher with screen patent**

# AROUND THE WORLD

Screen Machine Industries, headquartered in Columbus, Ohio, is one of the largest manufacturers of portable crushers, screeners, trommels and conveyors in North America.

We are global leaders in design and innovation within the industry. We ship our products all over the globe and have a worldwide dealer network of support.

**SMI**



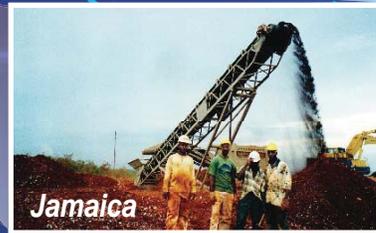
Quebec

**NORTH AMERICA**

**AFRICA**



Mexico



Jamaica



Ghana



Ecuador



Venezuela

**SOUTH AMERICA**



Argentina

SMI sells, rents and services its equipment through an incredibly strong dealer network worldwide. Factory trained, privately owned dealerships with vast resources of machine inventory, parts availability and immediate technical service will support your job site needs when you need it most.



United Kingdom



Afghanistan



Russia

# EUROPE

# ASIA



Japan



Israel



Oman



China



Iraq



Australia

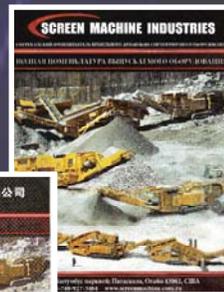
# AUSTRALIA



South Africa



Spanish



Russian



Chinese

Australia

Sales and Service manuals have been produced in multiple languages to support our equipment around the world.

# TRANSPORTING MACHINERY WORLDWIDE

At Screen Machine Industries, our machines are easily transportable and can be shipped anywhere in the world. We currently have working machines on 6 continents around the globe. Our products have traveled by air, sea and land to get to their final destinations. They have been delivered by trucks, ships, trains and even military airplanes. Innovative folding designs that allow for quick set-up and tear down have been key to our success.



*A tracked conveyor being loaded into a container for transport*



*A crusher loading onto a ship for an overseas delivery*

**A**t Screen Machine, we design our machines to meet the shipping regulations of each state or territory. They must be compact enough to fit on trailers, into containers, ships and aircraft when needed. Our machines ship to destinations as far as the tundra of Russia, the diamond mines of South Africa, and the down under regions of Australia.

Domestic shipping for our customers in the United States is hassle-free. As part of our continuing commitment to our customers we can arrange all transportation needs to anywhere in the world.



*Transportation in China*



*Loading conveyors at our factory*



*Oversize load  
is ready  
for transport*



*Delivering to our customer's job site*

**BY LAND...**

**BY SEA...**



**BY AIR...**

**WE GO ANYWHERE.**

# AFGHANISTAN

*In 2009, Screen Machine Industries partnered with the US Air Force to deliver a complete system of equipment to Kandahar Airfield (KAF) in Afghanistan. Kandahar Airfield lies about 10 miles outside of the provincial capital of Kandahar City. As with many military contracts, this journey took months to finalize and required both our equipment and personnel to travel seven-thousand miles away from home – into hostile territory.*

*In order to accommodate the President's announced troop surge, an \$850 million expansion began that would nearly double the size of Kandahar Airfield.*

*The surge in NATO operations in southern Afghanistan increased the number of aircraft operations at the base from 1,700 to 5,000 flights per week. With this increase, Kandahar had become the busiest one-runway airport in the world. This expansion also made it the largest NATO base anywhere in the world.*

*Screen Machine's crushing and screening equipment would be used to aid this expansion effort in preparation for the next troop surge, which was scheduled for late summer 2010. Securing the purchase order was the first and most important step, but also the only simple part of the process. The challenge of getting very large pieces of construction machinery from Columbus, Ohio, across the world into a war zone, in a tight time frame, was logistically daunting.*



*The system's main components included a JXT Jaw Crusher, 4043T Impact Crusher and a Spyder 516T screening plant.*



*The four pieces of equipment were all shipped by truck from the factory to ports in Savannah, Georgia and Norfolk, Virginia. They were then loaded aboard ships for the long trek across the ocean, through waters frequented by Somali pirates. The equipment reached Port Qasim in Karachi, Pakistan where it would eventually be loaded onto trucks for the journey to its final destination at Kandahar Airfield. This leg of the journey traveled through the mountainous border region between Pakistan and Afghanistan and the dangerous passage into the heart of the Taliban in Kandahar province.*

*Stringent measures regulated any materials or equipment coming into the country. This involved multiple steps, including clearance by the US Embassy in Afghanistan, the Afghan Ministry of Foreign Affairs, and the Afghan Ministry of Finance. Five months had passed from the time of arrival at the port in Karachi, until the equipment was allowed to reach the final destination in Kandahar.*

*SMI employees were required to perform setup and training on the equipment as part of the contract. This involved passing a federal criminal background check and securing a visa through the Embassy of Afghanistan in Washington, DC. Personnel were required to surrender their passports in exchange for a contractor's badge while within the base. They were then assigned full-time, armed police escorts for safety.*

*Primitive, but adequate, sleeping quarters consisted of a large military tent shared with six Airmen. Old shipping containers had been converted into restroom and shower facilities. Comforts of home, though sparse, included warm running water, air conditioning, satellite television, and wireless internet access.*



*Giving it 110% gets a new meaning out here.*

# AFGHANISTAN

*SMI has a long and proud history of supplying heavy-duty American Made equipment to governmental agencies and the US military.*

*This was an excellent opportunity to continue that relationship while experiencing another new market, and yet another example of our ability to ship our quality equipment anywhere in the world.*

**O**nce in place, the system's initial use was for recycling concrete to be reused in building helipads, runways and roads.

*The JXT Jaw Crusher and 4043T Impact Crusher were used inline as primary and secondary crushers, respectively, with the 4043T discharging directly into the hopper of the Spyder 516T screening plant.*

*The Spyder 516T was set up with 3-inch wire-mesh top-deck screens and 3/4-inch wire-mesh bottom-deck screens. This allowed the Airmen to generate two separate, usable products while sorting out the trash. The fine material was mixed back into new concrete mixes, while the mid-sized product would be used for road base.*

*Rubble rejuvenated into usable aggregate.*



*After the initial concrete recycling was complete, our equipment was to be used in new quarries to generate base course, coarse aggregate for concrete, and drainage rock.*

*The two most obvious issues confronted in the field were the excessive heat and dust. The heat created several problems for both workers and machines. Workers found it difficult to remain hydrated, and often, it was only possible to work 20 to 30 minutes at a time. Fluid intake needed to be almost constant, and several Airmen had to be treated for dehydration during the week SMI personnel were in the country.*



*Previous stationary screening plant used was highly inefficient.*

*With temperatures often exceeding 115 degrees Fahrenheit, engine temperatures and coolant levels had to be regularly monitored to ensure the machines were running cool.*

*Desert dust, in addition to the dust normally generated from crushing concrete, created excessive dust levels. Excessive dust creates issues for items such as bearings, filters, belts, fans and radiators. Periodic maintenance intervals were shortened, especially on engine filter cleaning and changing. The occasional sandstorm brought dusk in the middle of the afternoon and also increased dust concerns.*



*During our stay, rocket attacks were a reality as well, although they were usually poorly aimed and fairly harmless. Still, they served to keep everyone grounded and alert.*

*After all, this was a war zone.*



*Dust and heat challenged workers and machines.*

# HALL OF FAME MACHINES FROM YESTERDAY

*Our proud heritage includes many noteworthy machines that have been retired from production. These innovative machines paved the way for current product offerings. The machines were widely accepted by our customers and we fondly remember them with this tribute to our past designs. They represent our forward leaps in design and the continued commitment to always strive to offer the most unique and durable products in the market today.*



*Plate Feeder  
1981 - 1997*



*2 IN 1 Shredder 1983 - 1995*



*Pulverize II 1989 - 2009*



*Belt Feeder 1983 - 1996*



*Multi-Blend I 1989 - 2003*



**Maximum 1991 - 2006**



**621T Shredder/Trommel  
2004 - 2007**



**Producer  
1994 - 2013**



**Achiever Trommel  
2001 - 2009**



**Scalper 107C  
1999 - 2005**



**Developer 1996 - 2013**



**Tiger Screen  
2001 - 2012**



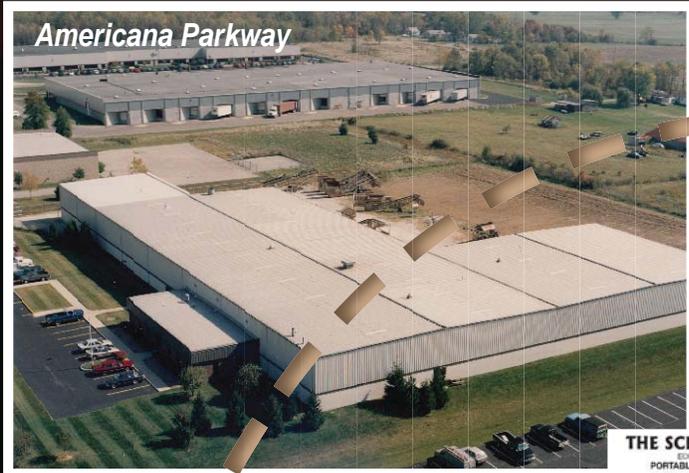
**SCREEN MACHINE INDUSTRIES™**

**CRUSH EVERY JOB**

**JOURNEY WITH US,  
THROUGH THE TIMELINE  
OF OUR 50 YEAR HISTORY...**

# A LEGACY BUILT SINCE 1966

Founded in 1966, Screen Machine Industries has a long and proud history spanning over 50 years of supplying heavy-duty American made equipment to our customers. Our corporate headquarters is located in Columbus, Ohio, USA.

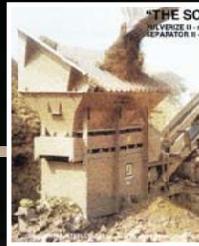


Americana Parkway

1989

- PVII
- Multi-Blend
- CH30

90

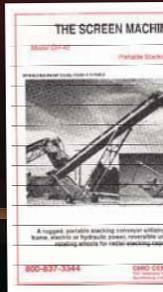


89



1986

- 80' Stacker
- Factory moved to Americana Parkway



86

Color change from brown to tan

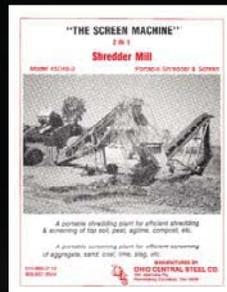
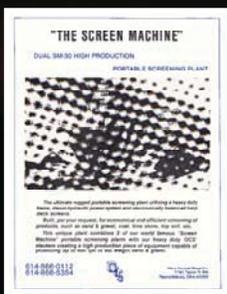
1980

- Plate Feeder
- CH40

84

1984

- Screen Module
- Dual Plant



83

1983

- Belt Feeder
- Shredder



80

**1990**  
- Mulch  
Screening  
Plant



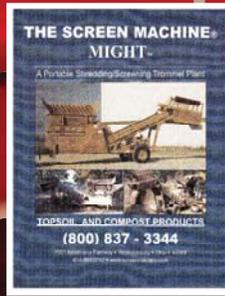
91

**1994**  
- Producer



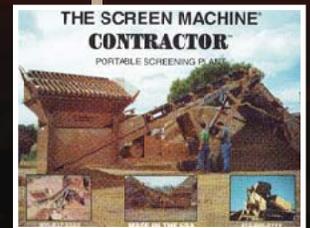
95

**1995**  
- Might

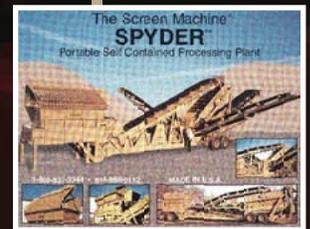
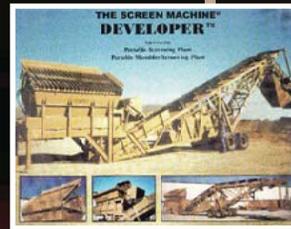


96

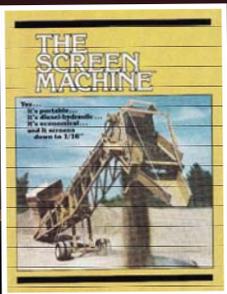
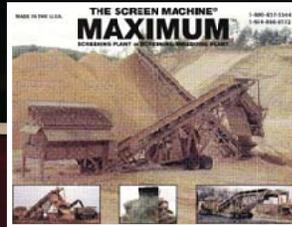
**1997**  
- Contractor  
- 512 Wheeled  
Spyder



**1996**  
- TH60  
- Developer



**1991**  
- Maximum  
- CH50



**1967**  
- Carter Steel  
- Miscellaneous  
Structural  
Steel Jobs

**1970**  
- Michigan Bell Job  
- Bridges  
- Guardrails

**1971**  
- E & I  
- Water Screens

**1973**  
- Bob Evans Restaurants  
- Structural Steel

**1968**  
- Jeffery Mfg.  
- Feeders  
- Conveyors  
- Screens

**1972**  
- Ashland Chemical



THEN

**1966** Company Founded  
as Ohio Central Steel

73

72

71

70

68

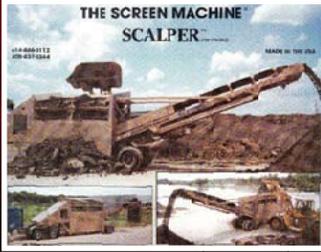
67

66

Color change from tan to yellow

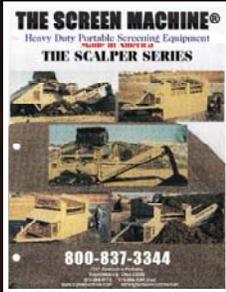
99

1999  
- 107C



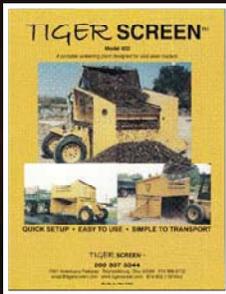
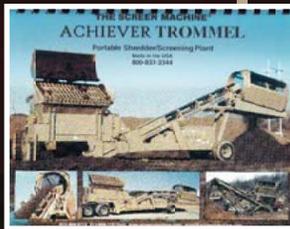
00

2000  
- 107D  
- 67C  
- 67D



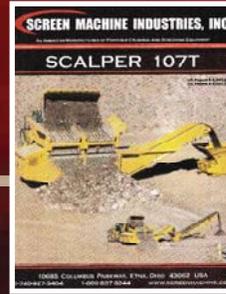
01

2001  
- Achiever Trommel  
- Tiger Screen 45D  
- Achiever 46



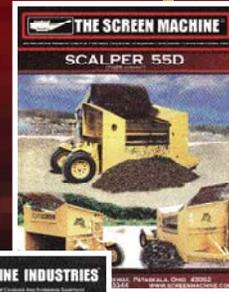
02

2002  
- 107T



03

2003  
- 55D  
- 516T



04

2004  
- 4043T  
- 621T  
- 36x60



06



Columbus Park

# SCREEN MACHINE INDUSTRIES™

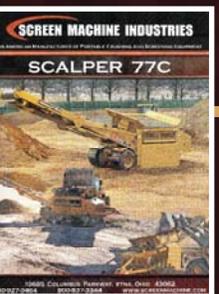
## 50 YEARS OF AMERICAN DURABILITY

# 50th Anniversary Celebration

**2006**  
- Factory moved to Columbus Parkway



**2007**  
- 5256T



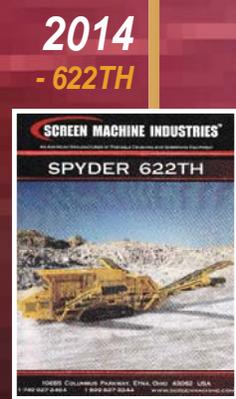
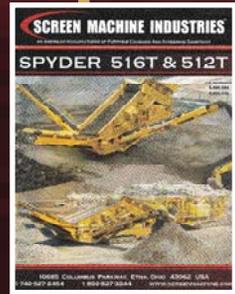
**2008**  
- 77C



**2009**  
- 612T/612W



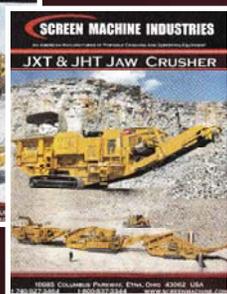
**2011**  
- 6036T  
- 512T



**2014**  
- 622TH



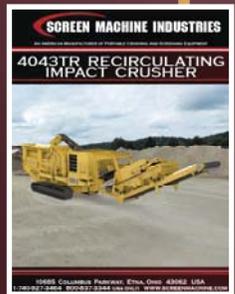
**2012**  
- CST Cone  
- JXT/JHT



**2015**  
- 514TS  
- CXT Cone



**2016**  
- 4043TR  
Re-Circulating  
Crusher



**2016**

# TRADE SHOWS

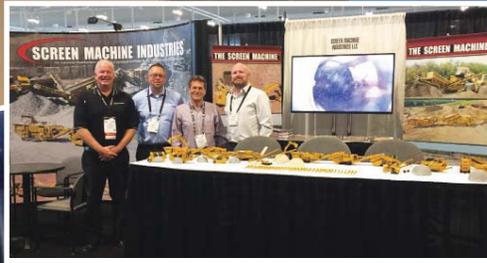
As part of Screen Machine's position as a leader in material processing, we continue to be a major presence at national and international trade shows. Our product offering spans many industry applications including mining, recycling, landscaping and construction. We are preparing now for the 2017 CONEXPO show, the premiere trade show for the construction industry. Held every three years, the exposition showcases the latest equipment, products, services and technologies. Our 3 largest machines will be an impressive backdrop for our massive 3,600 square feet of exhibit space.



*SMI's displays always garner great interest from onlookers and the latest CONEXPO was no exception. We received an impressive level of foot traffic and overwhelming interest from the crowds of show attendees. Just imagine what Screen Machine Industries will bring to the industry at future CONEXPO shows with the innovations yet to be developed!*



**ISRI Show – Institute of Scrap Recycling Industries**



**AED Show**

*Associated Equipment Distributors (AED) is an international trade association representing companies involved in the distribution, rental and support of equipment used in construction and mining industries. Over 500 distributor member companies account for more than \$15 billion of annual sales. SMI meets annually with existing and potential distributors to represent their products.*



**NDA Show**

*The National Demolition Association (NDA) represents more than 800 USA and Canadian companies offering demolition related services. Annual trade shows held throughout North America educate and connect manufacturers of demolition/recycling products with their users.*

# INTERNATIONAL SHOWS

*SMI continues to be a global leader in design and innovation within the industry. Our machines are on the job on six continents around the world.*



**Canadian Heavy Equipment Show**

*CONEXPO Russia at CTT is the largest construction-related trade show in Russia and Eastern Europe.*



**Russia CONEXPO 2014**

*Over the past decade, Russia was one of the fastest growing markets in the world. The machinery market grew to meet the need for improved infrastructure and transport systems. Construction projects related to international events such as the 2014 Olympic Games in Sochi also contributed to the growth.*

# SCREEN MACHINE IN THE NEWS

*In 2011 and 2012, Screen Machine Industries played an active role in the political arena. SMI welcomed republican presidential candidate Mitt Romney to our factory two times, the only place on his campaign that he stopped twice. His first visit was for a campaign press conference in which he gave a speech regarding international trade, job creation and manufacturing. He later requested to return to the factory and SMI was privileged to host his campaign victory rally.*

*SMI's President, Steven Cohen, was honored to represent the Ohio manufacturing community by speaking at the Republican National Convention.*

*In July of 2011, SMI was honored to host a campaign press conference for the front-running Republican Presidential Candidate, Governor Mitt Romney.*

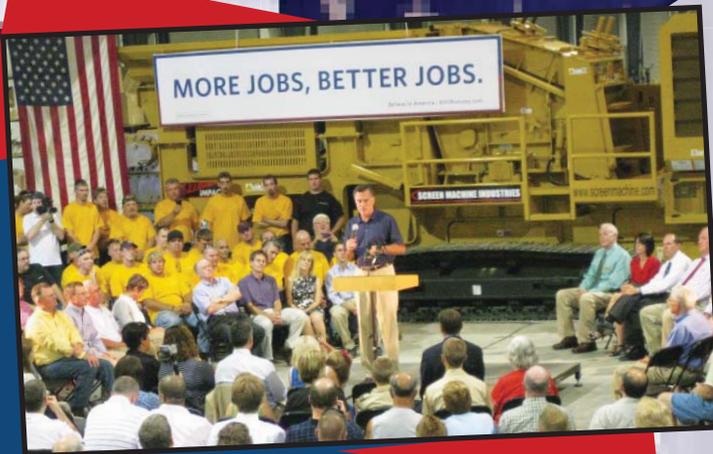
*The Cohen family gave Mr. Romney a tour of the plant after a round table discussion regarding the creation of more manufacturing jobs. The focus of the speech was on increasing US manufacturing through exports by negotiating fair and competitive international trade policies. Around 400 employees, local politicians, community members, news correspondents and Ohio manufacturing executives turned out to hear and report on Mr. Romney's views relating to international trade, job creation and manufacturing.*

*The factory setting provided a formidable impression of the scale and importance of the manufacturing industry to the United States and showed that SMI is capable of being a dominant player in the world's economy. As host of the event, SMI was proud to be able to display contributions to the industrial sector of county, state and national economies.*

*August 29, 2012, SMI's Steven Cohen represented small business leaders everywhere by speaking at the Republican National Convention in Tampa, FL. His speech*

*focused on the challenges of manufacturers competing in a global economy. Political issues important to manufacturing such as intellectual property protection, unfair trade policies, excessive regulations, and taxes highlighted his message and pleas for needed change.*

*Mr. Cohen spoke from the perspective of his corporate family pride and the 50 years of positive citizenship it has forged within the local economy and the Ohio community at large. "Speaking on behalf of the 30 million small businesses that drive job creation in this nation was an extremely humbling and thrilling experience."*



**2011 Press Conference**

# Mr. Romney hailed Screen Machine as an “extraordinary manufacturing facility.”



2012 Romney/Ryan Victory Rally



The highpoint of our unexpected surge to the forefront of the political scene came in November of 2012, when we were given the privilege of hosting Mr. Romney for a second time. The factory was the only venue that Mr. Romney returned to during his campaign tour and we were honored to oblige. He started his campaign with us and he wanted to finish his campaign with us.

Just four short days before they were to arrive, we received the news that the Romney campaign would like to host their victory rally at our factory. We scrambled to prepare our facility to host a crowd of over 3,000 citizens, local business leaders and national press. It was a very exciting day for us when the victory rally packed the factory floor.

The primary focus of Mr. Romney's victory address was on taxes, job creation, the economy and the impact of government on businesses, manufacturing and energy.

Featured speakers included prominent Republicans, Senator Rob Portman, Lieutenant Governor Mary Taylor, and Congressman Pat Tiberi.



2012 Republican National Convention



# COMMUNITY SUPPORT

**SMI is passionate about supporting the local community through a variety of charitable giving. Sponsoring scholarships for engineering students at local universities and leading a company campaign for the United Way are two of many charitable endeavors. Factory tours for educational purposes and continued political advocacy for our nation's infrastructure are two of our most important causes.**

On behalf of Central Ohio Technical College and The Ohio State University at Newark, thank you for providing the gift of education. Your generosity continues to ensure that our students are able to pursue quality higher education close to home, despite their financial challenges. You are improving the lives of our students and their families, and for that we are eternally grateful.

Kim Barton  
Assistant Director of Development



I want to personally thank you for selecting me to receive the impressive Screen Machines Industries Engineering Scholarship Award. It is an honor to be awarded a scholarship from a highly respected manufacturer of industrial equipment.

Tiffany W. - COTC student

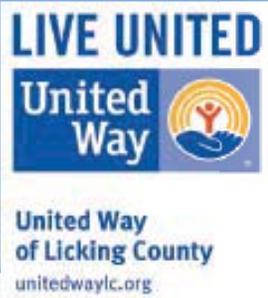
My major is biomedical engineering and my goal is to work with people who need prosthetics. I would like to help improve materials to create an advanced and comfortable life for patients. This scholarship will help me reach my goals, not only by giving me money to pay for school, but also for the boost of encouragement that I need, knowing that I have community support.

Ruby B. - OSU student

I am writing to express my sincere gratitude to you for making the Screen Machine Industries Engineering Scholarship possible. I was thrilled to learn of my selection for this honor and I am deeply appreciative of your support. I promise you I will work very hard and eventually give something back to others, possibly a scholarship to future students like myself.

Eric N. - COTC student





*Screen Machine Industries and our employees are proud to contribute to The United Way of Licking County, assisting in their cause to identify and to help meet community needs.*



*Screen Machine Industries is an active part of the Columbus community, opening its facility to the public for civic meetings, educational tours, and other events.*



*“The Works” is a hands-on science and industry Museum located in Newark, Ohio. During their “STEMfest Day,” we had an opportunity to show young students the excitement of engineering as a career. We built a special hand-cranked screening plant to separate candy.*



**We are PROUD to be in the Buckeye state! O-H-I-O!**



# AWARDS & ACHIEVEMENTS

We are proud to announce that Screen Machine Industries has been recognized with several industry and community awards throughout the years. Our innovative designs and our outstanding efforts as an industry leader has earned us recognition in many industries. Prestigious awards include the 2009 Governor's Excellence in Exporting award in Ohio, the 2007 Governor's Excellence Award for Housing & Community Development, the 2006 U.S. Department of Commerce Export Achievement Award... And more.



**Steven & Doug Cohen accept awards from Mr. David Spooner & from the Honorable Patrick Tiberi.**

## **U.S. Commerce and Congressional Officials Honor Screen Machine Industries for Export Achievement - 2006**

Mr. David Spooner, U.S. Department of Commerce, Assistant Secretary of Import Administration and Congressman Patrick Tiberi, U.S. House of Representatives, visited our corporate headquarters in November, 2006. David Spooner presented an Export Achievement Certificate to Screen Machine Industries, Inc. and U.S. Congressman Patrick Tiberi presented a Congressional Proclamation in honor of the Export Achievement Certificate.

State Sen. Jay Hottinger, Licking County Commissioners Marcia Phelps and Doug Smith, and other local officials also attended.



**Ohio's eAward**

## **Ohio's eAward for excellence in exporting - 2009**

SMI was recognized by Ohio Governor Ted Strickland with the 2009 Governor's Excellence in Exporting Awards (e-Awards). The Governor's Excellence in Exporting Award (e-Award) recognizes companies and organizations of all sizes that have shown superior performance in exporting or raised awareness of exporting as a vital component of Ohio's economy. "Due to the significant contributions of our state's exporters, Ohio is the 7th-largest exporting state in the country, and the only state in the nation to see export growth for 10 years in a row," said Strickland.

**“Screen Machine Industries exemplifies the commitment we need from all manufacturers around the country.”**

*~ Dennis Slater, President of AEM*

### **Governor's Excellence Award - 2007**

Ohio Lieutenant Governor Lee Fisher with the Governor's Excellence Award in housing and community development. The Award was presented to SMI for demonstrating outstanding efforts in the area of housing and community development efforts. SMI created many new jobs with the expansion of their facilities as well as the continuation of an aggressive world-wide export campaign.

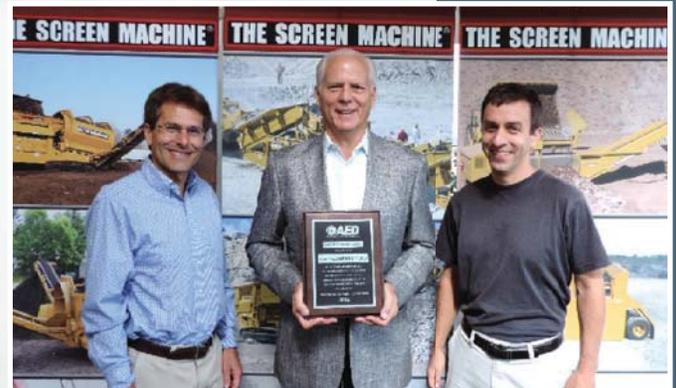


**Governor's Excellence Award**

### **Associated Equipment Distributors Quarter Century Award**

Bob Henderson, AED's Executive Vice President & COO, presented Steven and Doug Cohen of SMI with the Quarter Century Award to commemorate their 25 years of service (2014) to the construction industry as a member of Associated Equipment Distributors.

AED is an international trade association representing companies involved in the distribution, rental & support of equipment for construction, mining, forestry, power generation, agriculture and industrial applications.



**AED's Quarter Century Award**



**Pillar of the Industry Award**

### **Association of Equipment Manufacturers Awards Screen Machine Industries The 2012 "I Make America" Pillar of the Industry Award**

Screen Machine Industries received the prestigious "I Make America" Pillar of the Industry Award, Gold Member Status from the Association of Equipment Manufacturers multiple times. Screen Machine Industries is continuously working hard to promote the importance of building and maintaining our nation's infrastructure through education and public awareness by hosting rallies and making public speeches throughout the community.

# THANK YOU

to our suppliers and associates that have provided the components and services to support our company over the last 50 years.



# APPRECIATION

to our dealers and authorized representatives that have promoted and serviced SMI products to our customers.



Beijing Cathay Environ

Capitol EQ2 CGCS Midlands LTD Clark Machinery Craig Taylor Equipment

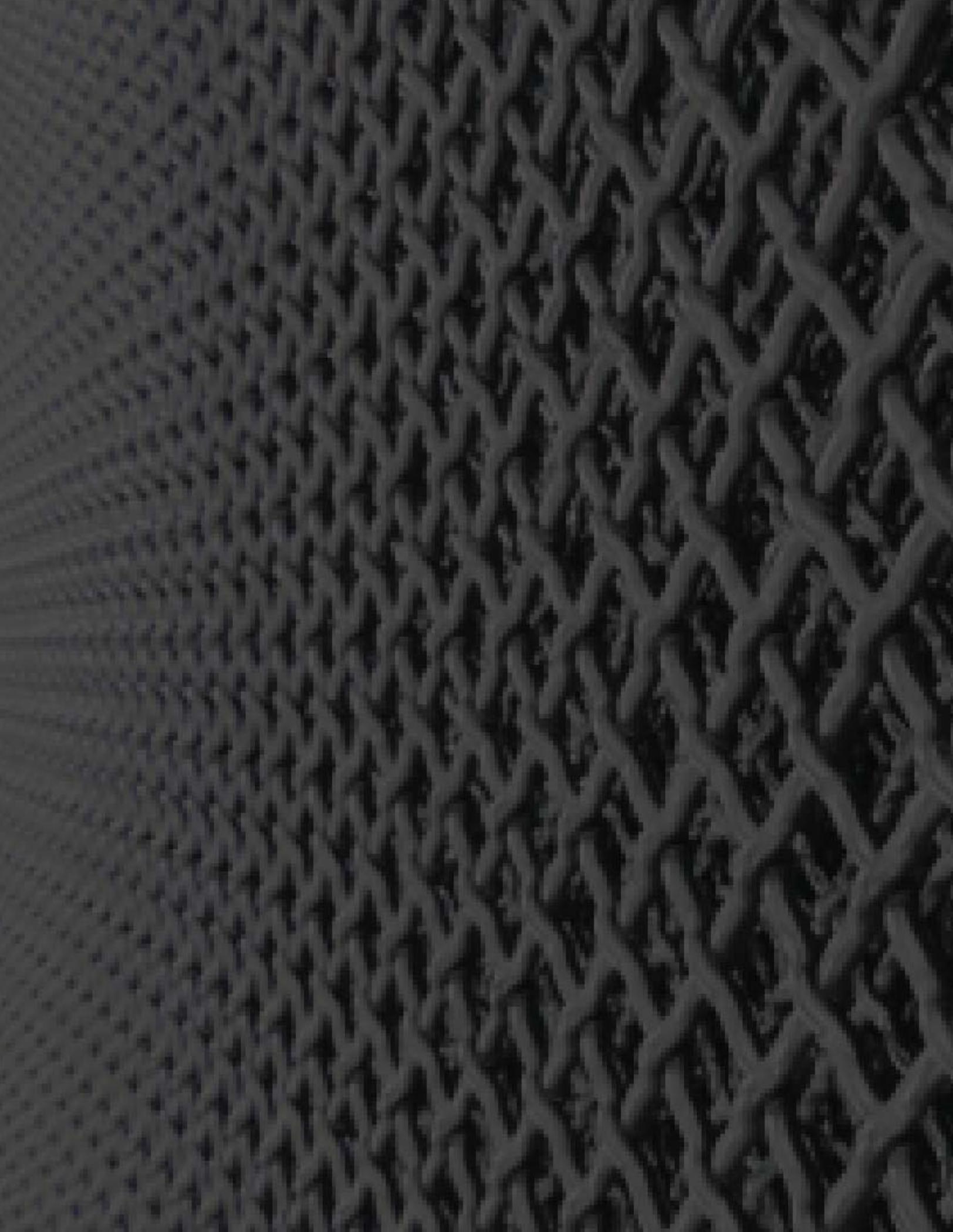
East PBE, Inc Edward Ehrbar Encodrill/Almizrah Gulf Atlantic

Hansa LTDA Madsen Construction Group Manhattan Corporation

N. Feldman & Son LTD Old Dominion Equipment & Supply

Pine Bush Equipment Co. RA Equipment. Inc SCAT LLC Snake River Supply

The Groundworx Co. Thompson CAT VL Trading /LTD Samson



**CRUSH EVERY JOB**



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**1-800-837-3344** (USA only)

**1-740-927-3464**

[email@screenmachine.com](mailto:email@screenmachine.com)

[www.screenmachine.com](http://www.screenmachine.com)



**50TH ANNIVERSARY**

