

when

“Find a need and fill it” means something more to this recycler

Waste Handling Equipment News

Volume 22 No. 4 February 2014

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What US customers say about Rockster



„Our Rockster crusher R1200/1100 Duplex (jaw and impact with one machine) has been a wonderful addition to our company. We utilize it mainly as impact crusher in the production of recycled asphalt pavement for use as base course material for rebuilding the road. We have even used the crusher with the interchangeable jaw in our quarry in Colchester, producing sub base gravel. We bought the machine after Conexpo 2011 and it has worked fabulously ever since. It is in production 10-12 hours a day 6 days a week for about 7-8 months a year.“

Frank Tyler Whitcomb
Frank W. Whitcomb Construction Corp.
Colchester (VT)

„The fact that the Rockster crusher R800/900 can be switched from Jaw to Impactor made it an easy decision. The unique design of the duplex system allows us to get maximum utilization of the machine, as it can be used in various application from virgin stone to recycled asphalt and concrete. Three years and almost 4000 hours later the machine continues to perform and shock our customers with its production and material quality despite its compact size.“

Joe Collazo
Equip Sales & Leasing Corp., North Haven (CT)



Chipping drum for Beast XP Series recyclers now available

Bandit Industries now offers a chipping drum option that replaces the traditional Beast cutter-mill. Designed for companies that want to exclusively chip with their Beast, the new drum essentially converts the Beast into a whole tree chipper. A variety of screens can be paired with the drum, creating a screened end product

that can be tailored to meet various specifications for nearly any biomass energy application.

"Beast users can have the best of both worlds high quality, screened dimensional wood chips from a traditional whole tree chipping drum," said Jason Morey, Bandit Industries sales manager. "Because of the large in-feed opening in the Beast,

it can better process large, bulky material that would be difficult for whole tree chippers to handle."

Chipping drums can be ordered on new Model

2680XP, 3680XP and 4680XP Beast Recyclers, or retrofitted to older units. With more municipalities and companies around the world turning to biomass

as an alternative to fossil fuels, the chipping drum option for Beasts can help users supply these lucrative markets.

"Our XP Series Beast

Recyclers are already industry leaders for production and reliability," said Christopher Smith,

Chipping drum 5



Designed for companies that want to exclusively chip with their Beast, the new drum essentially converts the Beast into a whole tree chipper.

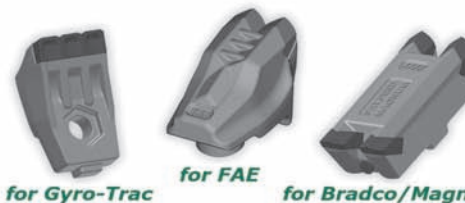


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New XT mobile shears from Genesis Attachments: High productivity design mounts on smaller carriers

SUPERIOR, WI — Genesis Attachments announces its new XT Mobile Shears, the industry's next generation shears designed to process scrap more efficiently and fit on smaller carriers, reducing initial acquisition investments and hourly energy consumption costs.

Shorter in length and height and lighter in weight, the GXT features a center of gravity that is closer to the excavator, enabling the GXT 555 and GXT 665 rotating models to mount on 46,000 to 66,000-pound excavators that previously could only carry small-

er, less powerful shears.

"The new GXT is a customer driven product, built on extensive customer input and our relentless pursuit of continuous improvement," says David Palvere, Genesis director of business development. "The many new features of the GXT are the result of conversations with customers about how mobile shears can further increase productivity while reducing maintenance and operational costs for scrap recyclers and demolition contractors."

Just a few of the new features include:

- A bolt-on piercing tip

that encapsulates the front end of the upper jaw, protecting the tang and reducing wear and damage;

- A weld-on, replaceable, highly abrasion resistant steel rhino horn that protects the front and top of the upper jaw, reducing maintenance and the need for buildup;
- The pex, where most cutting is done, is closer to the back of the jaws improving material gathering and increasing cutting performance and efficiency; and

- Dual guide blade lengths match the piercing tip blade length, enabling the guide blades to be shimmed independ-

ently to accommodate piercing tip wear.

The GXT line, when complete, will fit 20,000 to 250,000-pound excavators.

Genesis Attachments, based in Superior, WI, is a global leader in the design and manufacture of high quality shears, grapples, concrete processors and specialty attachments for the scrap processing, demolition, material handling and offshore decommissioning industries.

For more information, visit genesisattachments.com.



The apex, where most cutting is done, is closer to the back of the jaws improving material gathering and increasing cutting performance and efficiency.

Chipping drum from 4

Bandit Industries marketing and communications director. "Now that a dedicated chipping drum is available, these machines are more capable than ever at meeting the strict sizing requirements for various fuel wood markets, and for the production of high

yield wood pellets. And with the versatility to function either as a waste reduction recycler or a whole tree chipper, the Beast is truly in a class by itself."

For 30 years, Bandit Industries has built the machines professionals need. With biomass mar-

kets shifting into high gear all around the world, Bandit continues to serve these markets as an industry leader for wood chippers, horizontal grinders, forestry mowers and stump grinders. Learn more about Bandit's line of equipment at www.banditchippers.com

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Cover photo: Windy Geiger-Steiner and Steve Geiger, owner of Geiger Excavating, reclaim C&D landfills as part of their overall recycling operation.

The Editorial Deadline precedes the Ad Deadline by two days. *Waste Handling Equipment News* readers include owners, operators and purchasing agents involved in construction demolition, asphalt/concrete recycling, wood waste recycling and composting. Our editorial emphasizes new equipment, site stories, association updates, legislation and industry news.

If you have news to contribute, contact:

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Worldwide growth spurs new global appointments for McCloskey International

Addition of new representatives responds to customer demand and expands reach across regions.

PETERBOROUGH, ON — McCloskey International has announced five appointments to the global sales team effective as of August 2013. Darren Coen will cover the area of South East Asia, Mark Rankin is appointed Middle East/India, Adrian Hernandez Ibanez is appointed North West Africa, Roger Wilson is East Africa and Suzanne Dynes is appointed Inside Sales Coordinator.

The expansion is in response to worldwide cus-

tomers demand for McCloskey's proven performance crushers, screeners and conveyors across a number of regions. These additions to the sales force will widen the availability of McCloskey equipment worldwide.

Darren Coen brings a background in Business Information Systems to his position as territory sales manager for South East Asia. Darren joined the McCloskey International team in May 2013 in Ireland and has now relocated to Kuala Lumpur covering South East Asia.

Roger Wilson has been appointed territory sales

manager for East Africa. With over 20 years sales experience within the region, he has built a reputation in heavy machinery sales including diesel power plants, screening, crushing machinery, earth moving and lifting equipment. Roger is based out of Nairobi, Kenya and has a broad knowledge and interest in business within this region, with strong personal customer relationships within the construction and the mining and quarry businesses.

Mark Rankin has been appointed territory sales manager for the Middle East and India with Mc-

Closkey International. Mark has over 17 years experience in sales within the construction industry and aims to expand on the demand for McCloskey's screening/crushing equipment. He will use his skills and experience to develop sales in the region and enhance the availability of top of the line McCloskey heavy equipment.

Adrian Hernando Ibanez has been appointed territory sales manager for North West Africa. He will leverage his background in International Business to continue to develop the current dealer network in the region delivering comprehensive services and products.

Suzanne Dynes has been appointed inside sales coordinator based in Northern Ireland, Coalisland. She has a background in Languages and Marketing,

and has worked in Australia, Germany and Northern Ireland within the construction industry. She will further utilize her extensive experience to support the newly expanded sales team with dealer relationship management, organizing customer visits and training, completion of sales information and marketing.

The most recent appointments follow four appointments in the North and Central American markets, including Angel Chavez, territory manager for Mexico and Central America, Liam Quinn, dealer manager West Coast USA, Chris Carlson, dealer manager Central USA and Brendan Kieran, Southeast USA.

In 2012, McCloskey International experienced sixty percent growth overall, a 30 percent increase in workforce and have

added more square footage to both plants in Canada and Northern Ireland to accommodate increased worldwide demand.

McCloskey International Limited designs and manufactures innovative crushers, impactors, trommel screeners, vibrating screeners, feeders, stacking conveyors and picking stations. Since 1985, McCloskey International has been exceeding customer expectations with reliable, durable and high performing products. McCloskey equipment is used by topsoil producers, landscape contractors, composting facilities, waste management and recycling operations, aggregate producers and mining and quarry operators to help achieve profitable volumes. Images available on request.

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Hey Grinder Guy, should I buy a shredder or another compactor for my landfill?

That is a great question. I can take a full day answering this question, but there are a few main things to consider before you can make an educated decision.

If you own or operate a landfill, obviously landfill space is your number one revenue generator and the more landfill space you have the more valuable your landfill is. So, is it better to buy a new landfill compactor or a use a shredder to reduce material in the landfill?

With the cost of purchasing either about the same, here are a few things to consider:

If a compactor is used correctly:

- Material is spread thin enough;
- The compactor makes sufficient passes over the material; and
- The base material that the debris is being compacted on is solid enough.

You can get the reduction you are looking for, but sometimes this doesn't happen. Why? Mostly because material comes into landfill in waves, first thing in the morning, lunchtime and the end of the day. Because of that, not all loads get the same compaction. This doesn't happen everywhere, but it does at a lot of places.

So how does that compare to a shredder?

- You need more support equipment;
- Without adding any other equipment the shredder can separate ferrous materials; and
- You will reduce 100 percent of the material because everything has to go throughout the shredder and some of the material will not be buried without compaction.

So, what makes sense?

- There is no need for a shredder if landfill space isn't an issue. 100 year landfill life is a long time;
- No market for recycled materials — If you do not have a place for materials that are being recovered to go, why do it?;
- Limited volume, equipment or personnel — Little volume cannot justify the capital investment costs;

• MSW — If your volume is mostly MSW, the reduction and compaction difference is difficult to justify if you are

not removing materials. Although, the landfill working face is much cleaner and more easily compacted;

- Limited landfill capacity — If the last useful landfill life is in sight, start shredding;

- Can recycle materials — If you are using an excavator to load a shredder, the operator can easily remove concrete and big steel and other materials that are easily recycled or reused onsite. Even just separating clean wood that can be sent to a wood recycler is easily removed to reduce volume;

- C&D — Construction and Demolition debris is light and bulky. Reduction of 50-75 percent is easy to do; and

- Add a System — Depending on your incoming materials, adding a full recycling system can reduce disposal numbers significantly;

What else can using a shredder do?

- Wear — Using a shredder will greatly reduce undercarriage costs on bulldozers because with the material already being shredded, wrapping and large material damage is greatly reduced;

- Demolition — Having a shredder available for demolition projects could create additional revenue;

- Disaster Recovery — If a natural disaster, hurricane or tornado for example occurs, the shredder can be used on the cleanup or can significantly reduce the incoming volume that will reduce landfill life in a hurry with the unexpected increased volume;

- Tires — Adding a new waste stream like tires will increase profits significantly, and the shredded tires can be used on site for roads and drainage, or sent for to a recycler for a no disposal cost or a profit;

- Mattresses — A shredder can reduce difficult to compact materials like mattresses or even carpeting so they can be disposed of properly in a landfill; and

- Daily Cover Material — Some shredded material can be used as Alternative Daily Cover(ADC) for landfills that are dirt poor.

The more materials that are shredded, there

will be more uses found for the materials.

In some cases, the materials that are shredded or recycled from the incoming waste stream and removed, can be reduced from incoming disposal numbers and the full price collected at the gate

can be claimed by the landfill and any fees and taxes may not need to be paid because the reused materials are not being disposed of. Check with your local agencies on this. This could benefit landfill operator profits enough to pay for a

shredder. In addition, recycling credits may apply also. Do your homework.

So, in conclusion, there are many questions that need answered for your specific operation before you can make an educated decision on whether to purchase another com-

packtor or a new shredder. But either way, check your options because you may be able to collect a lot more revenue for a little investment.

Questions? Dave Whitelaw, grinderguy@ask-thegrinderguy.com .

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New shredder in Albany integral in plan for eastern expansion

Move is next step towards establishment of new recycling network in the Northeast for Upstate Shredding-Ben Weitsman

A new, state of the art metal shredder and full downstream has been purchased and will be up and running at the new Ben Weitsman scrap yard and port facility in Albany, NY, April 18, 2014, company owner Adam Weitsman announced. The new

project represents a total investment of \$25 million and will be funded privately through the company, no government assistance will be requested.

"We've spent years building our metals recycling network in New York and Pennsylvania into a highly efficient system," Weitsman, Owner of Upstate Shredding-Ben Weitsman, said. "We have ambitious goals for our Albany yard, and this

shredder is the next step in putting that plan of expansion into motion."

Since opening in August 2013, Ben Weitsman of Albany has quickly become the market leader in Albany within the first few months of operation. The company expects to spend several million dollars in the region over the next several years to create and develop a new recycling network of yards in the Capital region and

surrounding states to feed the new shredder.

"It took us years to build up our feeder yard system around our Owego shredder and this new shredding location, in addition to our shredder in New Castle which will be operational in the 2nd quarter of 2014, will be the launching pad of the next phase of our expansion," Weitsman said. "We've examined the markets surrounding the Albany facil-

ity, and we plan to make several new acquisitions of scrap yards in the region to develop the network of yards to feed the Albany shredder."

While smaller than the company's flagship shredder in Owego, NY, the new high powered auto shredder and downstream built by the Wendt Corporation of Buffalo, NY, includes

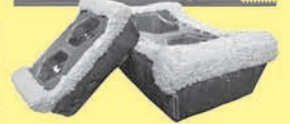
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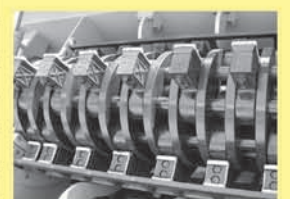
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“Find a need and fill it” means something more to this recycler

by Jon M. Casey



A load of 304s is headed out as Tom Clark fills an All American Trucking dump truck with material.

For those who use the expression, “Find a need and fill it” as a prescription for success, that motto means several things to Steve Geiger, owner of Geiger Excavating, Inc. At his company’s concrete and asphalt recycling yard located at a former landfill site in Gahanna, OH, Geiger and his staff work together to meet the needs of local contractors with a destination for concrete and asphalt tear out. They also receive unwanted fill dirt and overburden too.

From those materials they provide much needed, site prep materials for back haul to construction jobsites however while that is going on, Geiger uses excess fill dirt that comes into the center, to backfill areas that need attention, part of the site reclamation and development project that is taking place. As some might like to call it, it is a Win Win Win situation!

Geiger said that in his business model, the recycling business ultimately prepares its current location for future sale as commercial property. He noted that their work includes value added benefits like access to rail siding and to roadways that previously did not exist when the property first became a recycling center. More importantly, the greater Columbus area benefits because the real estate

becomes home to future manufacturing facilities, warehousing, sales distribution centers or office park complexes. That benefits the area with jobs and revenues to help fuel future growth.

History and business model

“I decided to go into recycling in 1988 when I bought my first landfill property and a bull dozer while I was still owner/operator of a restaurant in the area,” said Steve as we sat in the company field office. “Several years earlier, I had sold a tool and die business that I had owned and had used some of the proceeds to go into the restaurant business. After a few years of doing that, I needed something more to do. So, I bought available land over on Morrison Road, from the City of Columbus. I bought the land, and then I bought a bulldozer. Not too long after that, I started a recycling business on that site. Today, that property is now an industrial park.” And that is how Geiger’s business model operates.

“That parcel, like this one, was formerly a part of the Claycraft Brick Plant properties in Gahanna. I bought it at a sheriff’s sale with the idea that I might develop it and sell it. At the time, I had no idea what I was getting myself into, but it didn’t take long to find out that there was a need for a recycling center that



In a takeoff of the popular TV series, Geiger’s “Dirt Dynasty” poses for a group photo. Standing L-R: Tom Clark, Van Geiger, Jason Steiner, Windy Geiger-Steiner, Steve Geiger. Front Row: Issac Geiger

Photo supplied by Geiger Excavating

would take dirt, asphalt and concrete material all at the same location.”

“So, we began crushing and screening the material to provide products for site prep work and other jobs that needed recycled aggregates to meet specs,” he said. “Since then, we’ve continued to grow. We sold that first location to a developer in 2008. They turned it into the industrial park that sits alongside I-270.”

We negotiated on this parcel in 2009 and settled on it in 2010. It was still an active landfill at the time, and had been left open for more than 30 years. We finished the reclamation and officially close it in 2010.”

Since then, his crew has been backfilling areas to bring the site up to grade and make it more amenable to potential buyers while they provide the recycling services to local contractors. They have continued to operate their recycling business with the idea that in the next year or two, they will be able to close on the sale of this property and move on to their next location, a site that Steve has had his eye on for the past several months.



Van Geiger dumps a load of 304s into the screen plant where it is screened into 310s, 57s, and 4s.

Geiger from 10



Windy's brother, Van Geiger, oversees production. Today, he is operating filling the screen plant with 304s.

"We offer the ability to not only sell a customer a parcel of land when the property is ready to sell, but we can also provide the materials that the contractors might need to do the site prep work," Steve said. "Currently, we do our recycling here at the same time that we prepare the site for future sale to a business or manufacturer who is looking for a location of this size; one with rail, highway and air access (this site is within five miles of Port Columbus International Airport). We have a potential buyer in the wings and we are continuing to upgrade the property with them in mind," he said.

Daily Operations

Windy Geiger-Steiner, said they run a full recycling landfill which means that they are allowed to charge tipping fees for bringing in dirt and tear out asphalt and concrete material. "This is our third project of its kind," she said. "We have produced about one million yards of dirt backfill here and have about a half million yards to go to complete what we have planned for this site. During this time, we do the recycling as well. We hope to be completed here in the next couple of years."

As part of what they do here, they crush tear out



Steve Geiger explains how he upgrades the landfill property as he prepares it for future commercial development.

asphalt and concrete, turning it into a full range of recycled gravel products. These include 57s, 310A, 304s, 2s and 4s. In asphalt they also produce 304s, 2s and a 4-inch minus crusher run product. All their material is approved by the City of Columbus and their recycled material has been used at the Port Authority, which Windy notes, was a first for recyclers. Fill dirt is either sold or used for reclamation.

"Not many recyclers do a secondary screening of recycled aggregate," she said. "This gives us a better market for the 57s and 4s line. Our concrete contractors like that so they bring in their concrete tear out and they can reuse the 57s under their new concrete pour."

"We crush with a 4043T Screen Machine Impactor then screen the initial product into 2s and 304s with a Powerscreen 510. Then, as we need it, we do a secondary screening of the 304s. We turn that into 57s, 310s and 4s, also with a Powerscreen unit."

Windy said they currently employ six, mostly family members. "That includes my husband Jason Steiner, my brother Van Geiger, Isaac Geiger and Tom Clark, an equipment operator. We recently added Carrie Williams, who works in the office and serves as weigh master as well," she said.

She said that they are busier than ever with more than 300 loads of material expected to come in on this day alone. These loads will include dirt, concrete and asphalt, with most of the fill dirt headed to a ravine at the far end of the property, where backfilling it taking place. "We will even work on Saturdays



Windy Geiger-Steiner has worked at her father's business since she was a youngster.

if our customers need to bring in the material or need the crushed aggregate," added Steve.

With Geiger's current formula for success clearly on track, there is no doubt about it. Geiger Excavating, Inc. has "Found a need and filled it!" For more information about Geiger Excavating, Inc. contact them at 614-373-7526 or online at geigerexcavatinginc.com.



This industrial park alongside Interstate 270 in the greater Columbus, OH area, is a former site of a reclaimed landfill where Geiger did business with his previous recycling landfill operation.



One of the 100 plus loads of asphalt tear out that was expected to be brought in on the day of our visit, arrives at the top of this stockpile of material and is dumped in a safe location.

Komptech plan to have a large presence at the 2014 USCC show in Oakland January 26-29

Westminster, CO — Komptech USA, Inc announced its planning to bring 7 machines to the 2014 U.S. Composting Council show in Oakland. Most of these machines will be operating in the annual live demo day that the conference holds at a local landfill. New to the event in 2014, the show will also offer a static display where equipment can be showcased

and attendees can get an up close look at machines with one on one time with factory representatives. Komptech has grown its presence in the USCC show every year and this year is no exception. Besides being the manufacturer with the most equipment demonstrated, Komptech also will be sponsoring the show.

Komptech will feature live demonstrations of

Shredder from 9

several technological advances to ensure maximum recycling value. These systems include separation technologies to recover wire, plastics, nonferrous metals and other materials such as fines. Recent advances in shredding technology make it possible to divert even more recyclable material from landfills.

We are pleased to have been selected by Upstate Shredding to construct a new state of the art shredding plant at the Albany port facility, "said Tom Wendt Jr. of the Wendt Corporation, who Weitsman purchased the new shredder and complete nonferrous downstream from. "It's a pleasure to be part of Adam Weitsman's continued growth and success."

In May 2013, the Company announced the site of the second shredder being built in New Castle, Pennsylvania. The New Castle scrap yard, formerly Ferromet, was acquired in December 2012 by Weitsman at a bankruptcy auction; the facility, located at 256 S. Jefferson St., is seeing several million dollars' worth of additional investment, including the demolition of old buildings and erection of new ones, full paving of the facility, and brand new equipment. As the site of the company's second

shredder outside of the flagship facility in Owego, N.Y., the New Castle location provides access to new markets of scrap and steel manufacturing for the company. The third shredder in Albany will further expand access to new markets through the installation of state of the art metal processing technology housed in the Capital region.

With 15 locations in New York and Pennsylvania, and one of the most powerful mega shredders in the world, Upstate Shredding - Ben Weitsman acquired a new location every month this Summer. The company was ranked as one of the largest scrap companies in North America by Recycling Today, was 2013 AMM finalist for Scrap Company of the Year and, in March of 2013, Upstate was named as one of the top scrap & recycling companies in the world by Platts. The company expects to process 1 million tons of ferrous scrap and 200 million pounds of nonferrous scrap by 2014. The company is headquartered in Owego, NY.

For more information, please visit www.upstateshredding.com. Members of the media, please contact Stephen J. Donnelly at 719-337-8238 with any questions.

the Crambo dual shaft shredder, a windrow turner, hybrid trommel screen and star screen and stone separator.

Todd Dunderdale, Komptech USA director of Sales and Marketing states "The USCC is al-

ways our biggest and best show of the year. There is really no better opportunity for customers to come and see all the industry equipment working at the same time in one spot." We have been a strong supporter of USCC

for over 15 years and will continue in order to provide the organics market with education and technology that will improve the industry as a whole."

All 13 North American dealers will be in attendance to answer ques-

tions from their local customers along with Bejac Corporation, Komptech's California and Arizona dealer who will be co-hosting the show with Komptech and providing support equipment for the live demonstrations.

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Right tool for the right job: Hammer mill rod press

by Jeff Fleenor

Pin and plate hammer mills have been around a long time, are very robust and have been proven in many applications. The down side is that the rods can be very hard to remove, especially if you go a long time period between hammer changes. While there have been attempts to create new mill designs, they fundamentally suffer from the fact that the hammer or cutter block retention mechanisms must withstand the impact loads and when you look at the life of a machine at 10,000

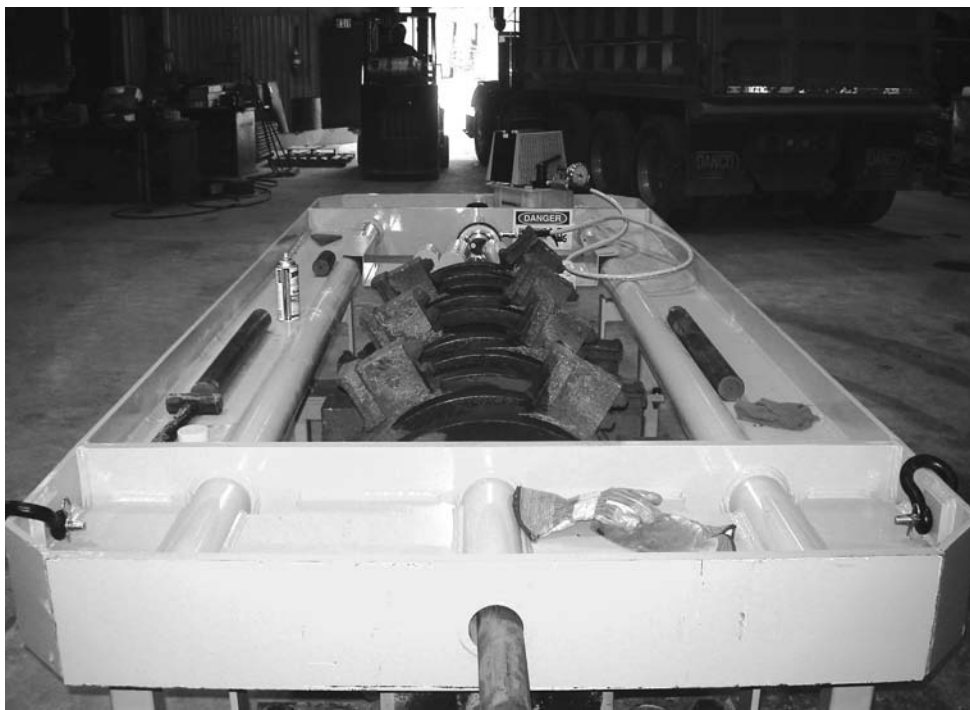
hours, that is a lot of impacts. If you assume one impact per revolution at 1200 rpm and 10,000 hours that equates to almost three quarters of a billion impacts. Pin and plate hammer mills are just plain robust and proven to last. All you need to do is have an easier way to remove rods and that is where a rod press comes in.

A rod press is the right tool to own if you have pin and plate hammer mills. A rod press can generate a controlled high force to allow taking apart frozen hammer mill

rods that have corroded and compacted dirt into the spaces between the hammer and rod. A sledge hammer simply can't generate the force necessary. In addition have you ever swung a sledge hammer and hit your target every time? How about swinging a sledge hammer in Florida in August with 100 percent humidity? A rod press will save you time and money by not only making it easier, faster, and safer to remove rods, but also saving hammers and rods to be reused again. Run the numbers,



Side view of 100 ton press. Note the tray that allows easy rolling in of various length spacers that match the 100 ton cylinder stroke length to push the rod out.



End view of 100 ton press pushing rod out. Note the end rotor plate is carrying the reactive load of the cylinder, not the bearings.

what is a set of rods & hammers worth to you?

Enerpac makes some very good hydraulic press systems and the 100 ton system is the most common used on these presses. They can generate up to 10,000 psi system pressure and have a fairly compact envelope. I would also recommend spending the money for a two speed pump to help speed up the process of removing rods. These pumps are similar to the two stage pumps that log splitters use, only at

higher pressures. I have seen rods take every bit of 100 tons to break free and then run between 20 to 30 tons to push thru the last couple hammers. I have also seen rods that even 100 tons could not break free. In that case you usually rotate to another rod and one will usually break free then. Once you get one broke free, the rest usually follow. Sometimes even then, you have to end up torching out one rod to get the system to break free, especially if you are using softer aftermarket hammer mill rods that get the crankshaft effect over time. I'll explain more about that later.

I do want to point out that if you have a press cylinder on your machine to remove rods, or if you make your own press, be

very careful to not put any force on the bearings of the hammer mill. Remember Newton's third law? For every action there is an equal and opposite reaction. If you mount a cylinder pushing on the frame against the rod, the bearings have to carry the reactive load back into the frame to resist the force. The most common type of bearings used on hammer mills are spherical roller bearings and these bearings are not typically designed to handle axial thrust loads. For example a 110mm or 4.33-inch diameter spherical bearing has a thrust rating of approximately 27,000-pounds. If you have a gear pump driving your press cylinder on a

Hammer mill 16

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Hammer mill from 13

grinder capable of 3000 psi, that would equate to just under a 3-1/2-inch diameter cylinder. If you exceed the bearing thrust load limit, you will cause damage to the bearing which will fail prematurely over time. You want the reactive load to be transferred directly back into the rotor plates and not into the bearings.

Hammer Mill Rod Design

For those of you that are buying your own steel to make hammer mill rods from stock round bar, here are some considerations to think about. If you are using a low carbon, low alloy shaft you may be seeing evidence of crank shafting where the repeated impact loads from the hammers will displace the metal of the rod, essentially creating an offset or crankshaft effect. This can essentially "lock" the rod in place and make it impossible to remove. The end result is that you have to cut the rods and hammers to remove them, destroying them in the process. That

gets expensive quick, especially if the hammers are still good.

When selecting the steel for the rods it is recommended that a material that has a thru heat treating capability as well as toughness to resist impact loads, even at extreme lower temperatures, should be chosen. While alloy steel has a bit more cost, the payback will be worth it. The 4140 and 4340 series of alloy steels work very well for hammer mill rods. These series of steel have very good impact toughness and they respond very well to heat treating thru the diameter of the rod. I personally like the 4340 series as that is getting close to the material used in M1 tank barrels. Grade 8 bolts typically have a hardness of 34 to 38 Rockwell C scale and if you have ever looked close at a failed grade 8 bolt, you will notice that it stretches a bit before it breaks, which is what you want. For hammer mill rods, I like to be in the 40 to 44 Rockwell C range as that gives the

best hardness without sacrificing impact toughness. If you get above 45 Rockwell C you will start to get into the brittle stage where you will suffer cracks from impacts. Also having the rod

slightly harder than the hammer will also help minimize or eliminate the crankshaft effect over time, making the rods easier to remove.

Summary

A rod press will save

you time and money by not only making it easier, faster, and much safer to remove rods, but also salvaging hammers and rods to be reused again. If you have questions about rod presses or have some

other unique problems to solve, my contact info is on my web site. You can also see pictures of rod presses that I have built on my web site at www.fleenormfg.com.

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ALLU's new DL screening buckets extend range to compacts

TETERBORO, NEW JERSEY — ALLU Group Inc. introduces the new DL Screening buckets designed specifically for use with compact base machines such as mini excavators, small wheel loaders, skid steers and backhoes. One bucket allows you to change screen sizes ranging from 5/8 inch, 1-1/4-inches and 2-inches just by changing out the screen and hammers. The DL Screening bucket is the perfect tool for landscapers and is engineered to screen, mix, aerate and load top soil, peat and compost. The core of the new DL Screening bucket is the unique top screen where the screening hammers

spin between the screen comb. This design makes the buckets clog-free, ensuring good production and throughput even with wet materials. Additionally, the new DL Screening bucket doesn't require a case drain line for operation making the bucket as simple as attach and start screening.

To ensure maximum performance and durability, the bucket's frame was designed and modeled using finite element analysis (FEA) engineering. The material weight is carried by the top screen comb so the drums and bearings have less impact under the load. The screening blades and top screen

comb are changeable when worn or when changing size adjustments, which helps keep operating costs low.

The buckets are available in three models—the DL 2-09, DL 2-12 and DL 2-17. The DL 2-09 is the smallest of the series and is recommended for use with mini excavators weighing 8,800-26,000-pounds and small wheel loaders weighing 4,400-17,600-pounds. The

bucket is 43-inches wide, 35-inches high and 37-inches deep and weighs 947-pounds.

The DL 2-12 bucket is recommended for compact excavators weighing 15,400-26,000-pounds and for small wheel loaders weighing 6,600-17,600-pounds. The bucket is 56-inches wide, 35-inches high and 37-inches deep and weighs 1,190-pounds.

The DL 2-17 bucket is

the largest bucket in the series and is recommended for use with compact excavators weighing 19,800-26,000-pounds and for small wheel loaders weighing 8,800-17,600-pounds. The bucket is 74-inches wide, 35-inches high and 37-inches deep and weighs 1,532-pounds.

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turning, soil stabilizing and compacting equipment and attachments for the asphalt, compost, environmental, recycling, green waste, demolition and pipeline industries. ALLU Group is ISO 9001:2000 certified. For more information, contact ALLU Group, 700 Huyler St., Teterboro, NJ 07608. Call 800-939-2558, fax 201-88-4479, e-mail usa@allu.net or visit www.allu.net.



The DL 2-12 bucket is recommended for compact excavators weighing 15,400-26,000-pounds and for small wheel loaders weighing 6,600-17,600-pounds.



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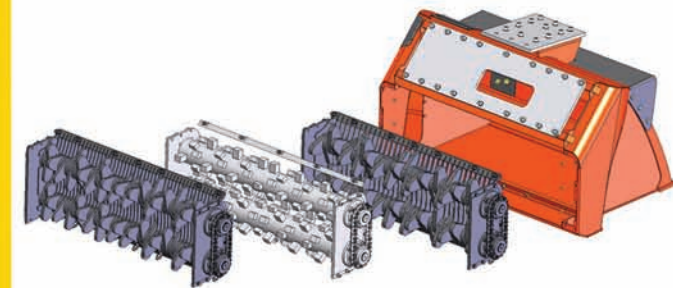
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Kevin Teets joins Yoder & Frey Auctioneers, Inc.

Yoder & Frey Auctioneers, Inc. is proud to announce the addition of Kevin Teets as territory

sales representative and auctioneer. Mr. Teets is a graduate of the Mendenhall School of Auctioneer-

ing, a member of the NAA, WVAA, PAA, OAA and is licensed in multiple states as an auctioneer. He was a Top 15 finalist in the International Auctioneering Championship the last six years and holds CAI and CES designations. Mr. Teets will be working on expanding the company's

auction business with equipment dealers, end users and financial institutions from West Virginia to Florida. Mr. Teets, a first generation auctioneer, has worked for Yoder & Frey Auctioneers at the Kissimmee, Florida auction the last six years as a contract auctioneer. He resides in

Lewis County, West Virginia with his wife and three children.

Yoder & Frey Auctioneers, Inc. will be celebrating its 50th year in business in 2014 and offers multiple auction and appraisal services. As the home of the Original Kissimmee, Florida Auction, and hundreds of one

owner and consignment auctions, Yoder & Frey has a unique understanding of the construction equipment marketplace. For more information about upcoming auctions, including Kissimmee, Florida February 10-17, 2014 visit www.yoderandfrey.com.

Hyundai Heavy Industries Group sends aid to Philippines typhoon victims

NORCROSS, GA — Hyundai Heavy Industries Group, Hyundai Construction Equipment's parent company, recently made a donation of \$200,000 via the Korean Red Cross in the wake of Typhoon Haiyan, which caused catastrophic damage to the Philippines. The company also dispatched a 21 ton class excavator, a backhoe loader and experienced operators to the area to assist in recovery efforts.

"We express our deep condolences to the victims of the typhoon," states Mr. Lee Jai-Seong, Hyundai Heavy's president and CEO. "We will provide as much assistance as we can in order to help the victims reclaim their normal lives."

As a responsible corporate citizen in the countries HHI operates in, this aid effort is in line with the support rendered for several other recent natural disasters in Brazil, Japan, China and Haiti.

Hyundai Construction Equipment Americas Inc. offers quality earthmoving and material-handling equipment, including hydraulic excavators, wheel loaders, skid steer loaders and electric and diesel forklifts. They also manufacture internal combustion cushion and internal combustion pneumatic forklifts. With Hyundai's North American headquarters and parts depot in Norcross, GA, both dealers and customers consistently receive quick fulfillment on all orders.

Hyundai Heavy Industries (HHI), Hyundai Construction Equipment's parent company has instilled its philosophy: Quality before and after the sale throughout all divisions. HHI invests heavily in construction equipment R&D and has state of the art production facilities around the world. Hyundai is ISO 9001 certified and is a perennial winner of numerous Ko-

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Fall Demo Days gives Morbark dealers and customers a first hand look at how equipment is made and performs

by Jon M. Casey



Following the demonstration of the 6600 track Wood Hog, a group of "shoppers" get a closer look.

For the people who attended the Fall 2013 Morbark Demo Days at the home office in Winn, MI, their two day event, October 10 and 11 was a huge success. With ample opportunity to tour the massive manufacturing facility on Thursday and field demonstrations of the company's leading products on Friday, those who needed a closeup look at how Morbark does things, did not go

away disappointed. By the end of the second day, with the Boxer Rodeo highlighting Morbark's new lineup of compact utility loaders ending the events, attendees who had traveled from across the U.S. and from around the globe, were sure to have seen a product that might one day, help them in their wood or timber businesses.

Following a morning plant tour, where groups of six to ten were hosted by company employees, the afternoon seminar/round table discussion featured Aaron Cozart from Cummins Bridgeway, Steve Kimbell of Superior Diesel, Inc. (John Deere), and Shane Patzer of Michigan CAT, speaking on the upcoming Tier 4 Final engine standards. With all the confusion and uncertainty surrounding the new standards and how they will affect the various sizes of equipment produced by Morbark, the ensuing discussions helped give clarity to what equipment owners might come to expect in the coming years. Overall, equipment users were assured by engine representatives, that the new engines would be able to withstand the extreme demands that they have come to expect from heavy equipment of this kind. More importantly, the problematic results that they might have seen from earlier changes in engine designs that went into equipment in the trucking industry have been remedied.

Equipment demonstrations at Morbark's performance testing area offered visitors the ability to watch as workers ran various units at production rates and then followed their demos with downtime for interested watchers to get a closer look at the machine or its product material. For customers in the paper pulp industry, the 2755 Flail Chiparvestor was especially impressive. It demonstrated how it could turn entire trees into bark free chips that are ready to go to the pulp plants in one pass. It was amazing to watch trees going in complete with bark, limbs and leaves, and come out with one pile of unwanted material in one place, and a mountain of clean chips in another. With the ever increasing demand for clean wood chips direct from the forest, the flail created plenty of inter-

est.

Other demonstrations included the 50/48 NCL whole tree drum chipper, the Beaver® M20R Forestry Chipper, the 40/36 Micro-chipper, a new unit this year, the 3200 Wood Hog, also a new model for 2013, the 6600 Track Wood Hog and the 1600 tub grinder as the grand finale. For more information on Morbark's line of equipment, visit their website at www.morbark.com.



John Foote, VP of Sales and Marketing, welcomes Demo Days attendees to the Morbark demonstration site.



Jim Shoemaker, president, encourages everyone to ask plenty of questions as they tour the plant.

Morbark from 22



A meeting of the minds is going on in the infeed of this 3200 Wood Hog.



Following the demonstration of the M20R forestry chipper, interested observers got a closer look at the finished product.



Following the 1600 tub grinder demonstration, the unit was opened up for closer examination.



The 2755 Flail Chiparvestor was being demonstrated with the railcar loading chute (the white discharge chute on the right).



For shoppers who were interested in producing pulp chips from whole trees, this pile of material from the 2755 Flail Chiparvestor gave them a first hand look.



Following the demonstration of the 6600 track Wood Hog, a group of "shoppers" get a closer look.

Vermeer introduces new gas engine option for the BC1000XL

PELLA, IOWA — Vermeer continues its dedication to delivering highly innovative, fuel efficient equipment with the BC1000XL brush chipper. Complete with an 89 hp GM industrial 3.0L gas engine, the chipper is powered by a dependable electronic fuel injection (EFI) system.

Bolstering the BC1000XL is a direct electronic pressure regulator that allows for greater control of fuel delivery, fuel economy and optimum combustion. Among the benefits provided by the enhanced engine components are improved cold weather starts and lower fuel consumption, as compared to conventional carbureted engines.

Patented SmartFeed technology comes into play when monitoring machine speed and throughput. This unique feed sensing system helps monitor engine rpm and is able to automatically stop and reverse feed rollers when processing large, hardwood material. Operators have the option of choosing three different droop settings that adjust the rpm to fit specific applications.

A clutchless PTO preserves engine performance and minimizes wear to valuable components, including the belt drive system. The throttle is integrated with the belt

drive engagement process to ensure that the PTO can only be engaged while the engine idles at low rpm. It is then able to automatically throttle up to full rpm after the belt drive is fully engaged; through this process, engagement of the cutter drum is obtained only when needed.

The BC1000XL now comes complete with another patented Vermeer feature, the EcoIdleT engine control system. When the EcoIdle function is selected by the operator, the engine speed automatically lowers to a preset rpm after 60 seconds or five minutes of inactivity to help reduce fuel consumption when not chipping material. Due to this idling, noise and greenhouse emissions are also reduced.

Augmenting the safety and ease of control of the machine is the accessible control panel. Located on the right rear of the chipper, the panel is positioned to allow operators the ability to easily monitor gauges and droop settings at all times.

Safety is important when designing a brush chipper, which is why the BC1000XL is equipped with a strategically located bottom feed stop bar to make it possible for the operator's leg to strike the bar and shut off the feed, either intentionally or automatically in an emer-

gency situation. A green 'hold to run' button is positioned within reach of each side of the feed table to momentarily override the bottom feed stop bar if required by the operator.

Control of the feed rollers is optimized with the four position feed control bar. The bar is within reach of the operator, allowing him or her to alternate the rollers from forward to reverse. Additionally, pushing or pulling the control bar

will automatically stop the feed rollers.

Throughput can be expedited on the user friendly BC1000XL. A large 12-inch tall, 17-inch wide infeed opening can decrease the number of trim cuts needed prior to processing. An adjustable discharge chute allows chip boxes to be filled evenly while safely directing chips away from the infeed area; the discharge chute can be rotated up to 270 degrees.

The Vermeer BC1000XL is ideally suited for the wide array of brush chipping applications. Whether it is the 89 hp EFI gas engine or its diesel powered counterpart, operators can anticipate a highly functional, heavy duty machine that meets and exceeds brush chipping demands.

For more information on Vermeer products and services, visit the company's website at www.vermeer.com or e-mail Ver-

meer at salesinfo@vermeer.com.

Vermeer Corporation of Pella, Iowa, manufactures a full line of tub and horizontal grinders, brush chippers, stump cutters, as well as horizontal directional drilling systems, mini skid steers, utility and track trenchers and agricultural products. Vermeer offers worldwide sales, support, service and parts through an independent, authorized dealer network.

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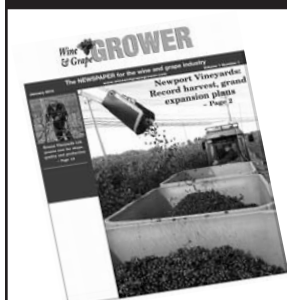
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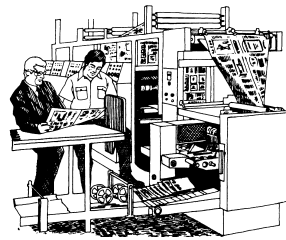
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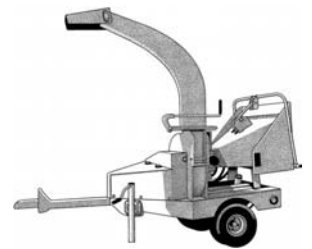
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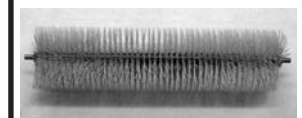
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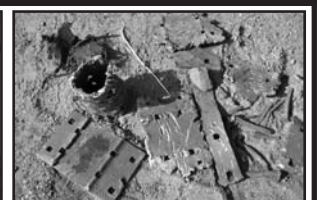
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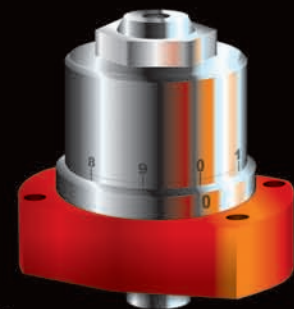
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