## UPtines VOL 3 · ISSUE 1 · 2016





## From Where We Sit



Erich Sennebogen

Erich Sennebogen

Owner and Managing Director SENNEBOGEN Maschinenfabrik GmbH



Constantino

Constantino Lannes
President
SENNEBOGEN LLC

#### **Getting the message out!**

With positive signs of recovery in the US market, SENNEBOGEN LLC is very excited by the prospects for our coming year, with new products and new programs reaching customers in every sector.

As our product line-up continues to deepen and our machines earn their place in more applications, our team in Charlotte is increasing its focus on sales support for distributors and customers. We are developing more tools to help all of our stakeholders to choose and specify the ideal green machine for every job.

We are on track to expand our team of **application specialists** supporting dealer sales representatives in every region. A growing library of **product literature** will bring together more detailed information on each model in our line-up, including the various boom and undercarriage configurations that produce the right match for your purpose.

The same thinking was behind the much-awaited redesign of our website, which is now online at **www.sennebogen-na.com**. Designed to demonstrate how our machines are built to support multiple operations in all of our key market sectors throughout the Americas, it also offers an easy-to-use guide of our complete line of material handlers, pick & carry machines, balance cranes and special-duty equipment. You'll find more details in this issue of UPtimes.

Whether you are at your desk or on the road, our new **YouTube channel** gets you "up close & personal" with green machines in action around the world. We now have hundreds of videos on tap – and to help you find the ones you really want, many of our printed materials and advertisements now feature QR codes that will take you directly to the related YouTube content.

#### Truly "Green"

SENNEBOGEN devoted years of engineering to raise the bar for jobsite safety with our equipment. In recent years, we've been proud to show the same leadership in environmental standards. As one of our feature stories in UPtimes explains, we have taken on the challenge of "green" technology with multiple innovations. And along the way, we have shown that better environmental performance is not in conflict with machine performance or profitability.

In truth, both of these developments are rooted in the core values of the SENNEBOGEN family – our value of the people who own and operate the machines we build. With machines that deliver productivity, safety and environmental responsibility, everyone in our extended family can take pride in making our world greener!





### In This Issue

A Message From
Erich Sennebogen and Constantino Lannes

In This Issue
Table of Contents
Putting "You" on YouTube

Join the Green Revolution

Green Hybrid saves up to 30% of energy costs

EQ Balanced Technology

SENNEBOGEN Green Efficiency Technology

E-Green Electric Drive

#### **SCRAP/STEEL**

The complete package

Choosing the right SENNEBOGEN for every job In the middle of nowhere Feeding the shredders In Sweden Vario Lock and Vario Tool

#### **LOGGING/FORESTRY**

Forestry machines go from 44,000 to 600,000 lb. (19,958 - 272,155 kg) in one operation 818 Gets Into Forestry

830 R-HD - The complete forestry package
Fresh approach to log loading
Calendar mill turns the page with 2nd trailer puller
SENNEBOGEN - Making the grade... and then some

25% Less Space; 50% Higher Stacking

The top pick for Pick & Carry

### 16 WASTE/RECYCLING

LEEDS certified facility goes for green
Wolf Disposal's home town hero
Plugged in & ready to go
Sorting and loading indoors
Reliability at CarlF Facility

#### PORTS/WATERWAYS

875 R-HD Green Hybrid for Waste Management
"So big but uses so little fuel"
Electric power turns into win/win
Smooth & responsive hydraulics keeps it clean
Setting the pace for seasonal loads

Safe & Sound
It's all about being safe & sound on the job

Factory Tour

Purpose-built machines from purpose-built factories

Center of Excellence
Factory trained graduates get hands-on experience

New Website
Focuses on the "Purpose" behind purpose-built machines

### You Tube

#### Putting "You" Into YouTube!

Now your smart phone holds the key to hundreds of videos featuring every type of SENNEBOGEN machine at work in every application you can imagine!

Throughout this edition of UPtimes, we have placed QR codes on our jobsite stories and product spotlights. Scan any one of the codes with your smartphone app, and the QR code will direct you either to the related video on our new YouTube channel or a page on our website.







## Join The Green Revolution!

SENNEBOGEN is revolutionizing the cost-efficiency of material handlers, attacking high energy costs with innovative technologies on four fronts. Today's lower energy costs show that what's good for the environment is good for business, too.

#### **SENNEBOGEN Green Hybrid** Saves Up To 30% Of Energy Costs!



Whether your machine runs on diesel or electricity, SENNEBOGEN's new "Green Hybrid" energy recovery system can reduce the energy cost of heavy lifting by as much as 30%, depending on your application.

The Green Hybrid system consists of a nitrogen accumulator in the rear of the machine and a hydraulic cylinder on the boom. Each time the machine's boom is lowered to begin a lift, the hydraulic pressure is stored in the accumulators so it's available again for the next lift, virtually loss-free. It helps to think of the hydraulics and accumulator system as a spring, which is compressed when lowering the equipment, then released through the lifting cycle. For this reason, the system is most effective in applications that cycle through raising and lowering the boom frequently.

Innovation for simplicity and safety, too While the design is innovative, the moving parts of the equipment are all industrystandard components, readily available and easy to service. Because the energy is captured hydraulically, the pressurized gas



cylinders can be located to the rear of the machine, for an extra measure of safety.

The Green Hybrid system was first introduced on SENNEBOGEN 875 models, and is in development for additional heavy-lift machines.

### **EQ** = Balanced Technology

A new dimension in energy efficiency, the SENNEBOGEN 8130 EQ utilizes the classic lever principle to minimize energy use and reduce running costs for large scrap processing yards and port facilities.

With its self-adjusting counterweight, the EO (equilibrium) machine is always perfectly



balanced over its center of gravity, offsetting the energy required to lift the load.

Because it compensates for load stresses in any position throughout the lift cycle. the EQ design is especially productive for applications requiring a long reach to move heavy loads.

#### **Balancing act**

The EQ balance technology shows off its strengths anywhere large volumes of bulk material are to be handled. With a



bearing load of 5 tons and a reach of 88 ft. (27 m), a stationary SENNEBOGEN 8130 EQ can serve an area of up to 25,000 sq. ft.

(2,300 m<sup>2</sup>) and manage piles to a height of 85 ft. (25.9 m). In port operations, the 8130 EQ can unload goods from ships or handysize-class vessels up to a depth of 27 ft. (8.2 m) and move loads of up to 10 tons.

The counterbalance mechanism is designed simply, with just two cylinders connected to the jib and to the rear counterweight by a bar running parallel to the boom. When combined with our eGreen electric drive. these balance machines draw just onequarter of the energy that a conventional machine would need to lift the same load – a 75% saving in both costs and in environmental footprint.

In addition, the machinery guarantees the highest level of efficiency and productive workflows in port material handling.



diesel costs, many facilities see electric drive as a clean, low-cost means for managing the profitability of their operation. Compared to diesel engines, electric drive can actually save up to 50% of operating costs, after you factor in the expenses and downtime costs to service the engine and related components.

#### **Going mobile!**

SENNEBOGEN has been building electric drive machines for over 25 years and this experience shows in the large fleet of electric drives in America today. It also shows in our innovation leadership, such as the new Powerpack models that allow wheeled and tracked machines to "unplug" from their power source and move untethered between locations in a facility.

SENNEBOGEN
Green Efficiency Technology

SENNEBOGEN introduced our "Green Efficiency" package with the new generation of E-Series models. As well as meeting the stringent Tier 4 regulations for engine emissions, Green Efficiency provides a wide range of features to improve environmental performance for both diesel and electrically powered machines.

Optimized engine settings, fuel efficiency and a new system for exhaust gas treatment have combined to reduce NOx emissions by 50% and particulate emissions by 90%!

Re-engineered hydraulics achieve better flow with lower heat production as well as improved viscosity-temperature performance and extended oil change intervals can now be up to 50% longer between changes.

Thanks to our new ECO mode, automatic stop and automatic idling mode, E-Series machines reduce energy consumption by 25% - a "win/win" for both emissions and operating costs!

Reduced emissions also includes noise reduction. Through our decoupled motor mounting and sound insulation mats, sound pressure level in the E-Series is reduced by up to 4.5 dB. ■





"A big issue with new machines today, especially big machines, is the emissions. The electric just takes that right out of the equation."

With scrap recycling facilities throughout the Great Lakes region and down to Florida, Ferrous Processing & Trading (FPT) is involved in every aspect of the industry. Tony Benacquisto is charged with keeping all of those facilities equipped to perform profitably.

"I'm the one that goes out to find new equipment," he explains. "I have to find the most efficient way of doing something and see how we can improve our bottom line."

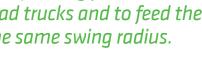
All tolled, FPT operates several SENNEBOGEN material handling machines. FPT's Strong Steel Products yard in Detroit recently added a new electric drive SENNEBOGEN 840 scrap handler to feed flattened cars and #2 scrap to its large shredder. The facility also runs a rubbertired version of the new machine, an 840 M model. The nearby FPT Kronk facility operates another electrically powered

machine, a SENNEBOGEN 835 R-HD. "We've had an 835 electric going for four years and had great success with it. So we had the measurable results to compare numbers when we were looking for a new electric drive machine."

"We've had electric equipment in the past," he continues, "going back to our Although Benacquisto appreciates the SENNEBOGEN equipment that's in the fleet, he takes a "clean slate" approach every time he searches for new scrap handlers. He collects input from his purchasing team, his maintenance staff, equipment operators and FPT's engineering department, also located at



The 840, mounted on a floating pedestal, has enough reach to unload trucks and to feed the shredder, all within the same swing radius.



electric overhead cranes. When you add the rising price of diesel to the maintenance cost of diesel engines, it far exceeds what electricity costs. With the way the price of diesel was jumping a year ago, it just made sense to go electric."

FPT's head office in Detroit. The goal is simply to identify the best overall solution for each specific process.

For example, the older electric drive 835 R-HD at the Kronk site is mounted on crawler tracks and is powered through a tether cable that allows it to travel within a limited range. The new 840, however, is mounted on a pylon with a 4-point floating structure in a fixed location adjacent to the shredder. Jeff Beebe, a member of FPT's purchasing group explains, "We had our yard arrangement all laid out before we purchased the machine. The 840, mounted on a floating pedestal, has enough reach to unload trucks and to feed the shredder,

all within the same swing radius. No mobility was needed."

The Strong Steel site is a 9-acre yard and processes in excess of 200,000 tons per year. The operation is purely focused on shredder throughput. Flattened automobiles arrive on trailers. They are fed through the shredder and ferrous material is separated by a magnet. The clean material is shipped to customers by rail and truck. The SENNEBOGEN machine was chosen to perform simply, quickly and reliably.

The electric 835 R-HD has now been in service for four years and has logged over 45,000 hours on the original electric motor. "That could be up to four engines or more," Beebe figures. "It's nice and quiet, too! The operator likes that, especially with SENNEBOGEN's elevating cab. There's more separation from the machine and any vibration, with no exhaust blowing on you."

"A big issue with new machines today, especially big machines, is the emissions, the Tier 3 and Tier 4 stuff. The electric just takes that right out of the equation."

## In The Middle Of Nowhere: Recycler Turns To SENNEBOGEN For Support And Savings In Remote West Texas

John Korey knows right where his recycling yard stands in the machine world. "El Paso is a city of 600,000 but, if you look at where we're located on a map, we're somewhat in the middle of nowhere. It's 750 miles to Dallas and 480 miles to Phoenix, where most folks have a service presence. That leaves us out on our own here."

Constantino gave us his word that any part we may need will be there in 24 hours.

Korey acquired a pair of new SENNEBOGEN 830 M scrap handlers for W. Silver Recycling Inc., where he is Regional Operations Manager. W. Silver Recycling has been operating in west Texas for more than 90 years.

"We were having challenges here with uptime, parts availability and overall support. Constantino (Lannes, the President of SENNEBOGEN LLC) gave us his word that any part we may need will be there in 24 hours. Other OEMs just can't meet that."

Korey continues, "Our ambient summer air temperatures of 104, 105 degrees are



more like 125 on the ground, or 140 where the heat is radiating off the metal... but the SENNEBOGENs just run. We get below freezing here too, so it's a very wide range of ambient temperatures. And those machines just perform flawlessly. They don't know whether it's January or July."

After a year of operation, Korey is pleased with the decision to bring SENNEBOGEN into the W. Silver Recycling fleet. "Their uptime is fabulous, the fuel burn is 50% less than the machines they replaced and they're very intuitive to operate."



#### **Koole Environmental Gets Into Demolition work**

When old things have to go, demolition specialists are called. The Dutch demolition company Koole Environmental relies on several SENNEBOGEN material handlers for complex dismantling operations.

A "very green" 830 R- HD E-Series with a Tier 4F engine, automatic idle stop and EcoMode is the latest addition to the fleet in the company's traditional red livery, leading the way on many projects.

Koole, an international organization specializing in complex demolition projects, has been able to establish its position as a complete service-provider for complex demolition work in the Netherlands and Belgium in the past few years and now operates successfully throughout the world.

In early 2014, Koole took delivery of their newest SENNEBOGEN 830 R-HD, a crawler unit fitted with a 2.5 t shear. Equipped with a powerful 225 hp (164 kW) diesel engine and a special 46' (14 m) long boom.



On this project, a steel structure of a pump system 23' (7 m) below ground had to be removed. The maXcab, which can be elevated up to 9' (2.7 m), and the additional peripheral camera system provided the operator with an excellent all-round view. According to Koole, operators really appreciate the capability of the machine. They especially like the flexibility of the

compact yet powerful machine. When compared to other heavy demolition machines, the 830 can work safely and effectively even in narrow spaces. The state-of-the-art engine technology provides great fuel economy. The 830 R-HD is equipped with a hydraulic quick-change device so the operator can change from shear to grapple and complete the job.

### **Quick! It's Time For A Change!**

The SENNEBOGEN line-up now includes two new quick-change couplers to let operators switch attachments safely and easily. Make the change to our Vario Lock system or the Vario Tool coupler and the right tool for the job is always just seconds away.





# VARIO LOCI

- Quick change coupler for all hanging attachments
- · Short ULM stick with hydraulic mount installs on any model
- Safe, convenient hook-ups to switch tools in seconds





- Change to your choice of grab, shear or magnet in less than 2 mins
- · Hydraulically operated right from the cab

## The SENNEBOGEN 818, Grapple And Dealer Service Make A Complete Scrap Handling Solution For Palmetto Recycling

When Palmetto Recycling chose a SENNEBOGEN purpose-built scrap handler, they went for the complete package deal.

John Grant had recently come onboard as General Manager for Carolina Salvage, a fullservice automotive recycler near Charlotte, NC. Grant had plenty of experience with heavy equipment and knew that since the firm had been experiencing difficulties with Carolina Salvage. In August this year, Neil and John took delivery of a new purpose-built SENNEBOGEN 818 M rubber-tired material handler.

#### Speed, strength and precision

"We chose the 818 M because it's compact enough to maneuver in tight lanes, but it's big enough and strong enough to do the job," Grant explains. Up to 90% of the material work for him. It's very stable, even with the cab fully elevated. On top of that, the dual cameras help to give us a much safer environment for our employees and our customers."

#### **One-stop solution**

To round out the package, ASC equipped their 818 with SENNEBOGEN's own orange peel grapple. They feel that the attachment



its existing machines, that it was time to consider a new one.

His employer, Neil Morris, is a thirdgeneration recycler. His grandfather first went into the scrap business in 1931, and his family had been operating Carolina Salvage since 2009. The two men got their first look at a SENNEBOGEN scrap handler at a trade show, and agreed to look further into the green machines.

"We checked them out online," says Grant, "and watched a number of videos to see how they run. We could see that these were well-built machines, so we called ASC."

ASC Construction Equipment, SENNEBOGEN's distributor in the Carolinas, had their material-handling specialist, Rob Jordan follow up with

handled at Carolina Salvage is cars and trucks. The scrap handler dedicates most of its time to loading cars onto trucks. For the balance of its shifts, the machine moves mixed materials for sorting, separating aluminum, ferrous material and large components, including transmissions and engine blocks. A forklift is used to load cars onto the crusher.

"We went with the rubber-tired model. I had tracked machines in the past, but our yard is level and packed down," he continues. "We have about 30 acres, and the machine has to travel about 100 yards on each circuit. With wheels, it has the speed to cover the ground pretty quickly. Our operator just loves it moving around the facility. The "creature comforts" and the ergonomics in the cab

reflects the same quality as the 818 machine. "It's well built. The cylinders are nice and protected, and the cut-off valves make it easy to work with from a servicing perspective," they noted. "The handling is very precise, with a good touch on the hydraulics."

After 7 months of operation, Grant is convinced that his SENNEBOGEN solution was the right choice for Palmetto Recycling. "With the 818's automatic shutdown feature and great fuel economy, the fuel savings make the economics very good for us. ASC is a new supplier for us. We're very pleased with what we've seen and we're now considering ASC for some additional equipment we need."





Four new SENNEBOGEN log handlers at the Pedersen Group's Tasman Mill in Kawerau, NZ, has transformed the efficiency of one of the world's largest pulp and paper facilities.

The Pedersen solution takes full advantage of the depth of the SENNEBOGEN product line-up, ranging from the smallest 818 model up to the 600,000 lb (275,000 kg) 880 EQ machine, one of the largest machines in the SENNEBOGEN green line.

The Tasman Mill sits on a 500 acre (200ha) site overlooking the Bay of Plenty on New Zealand's North Island. Pedersen Group provides the mill with vital production logistics for the log yard, mobile plant operations and for whole log chipping and debarking. The mill site hosts pulp production operations for both. The Pedersen team processes 1.1 million tonnes of wood annually, running a seven day, double shift operation.

Site Manager Marty Hine cites the move to SENNEBOGEN as an important



strategic decision for Pedersen. He says, "The strength, reliability and innovation of the SENNEBOGEN units allowed us to look at our fixed and mobile plant and to reconfigure our yard for maximum efficiency."

Along with the 818 and the 880 EQ, the new log handling fleet includes two of

SENNEBOGEN's purpose built 830 M-T trailer-pulling loaders.

#### 818 provides comfort and control

Pedersen's 818 unit is mounted on a pedestal and powered by electric drive. From its fixed location, the 818 serves as the control center for the mill's debarking drum and conveyor feed into a 3000 HP multi-log chipper.

Marty Hine reports that the 818's hydraulic elevating cab allows the operator an excellent view of the complete process from the power infeed, through the debarker and down the conveyor. "Essentially, the 818 is the nerve center for the whole plant," he says, "... with the operator using a touchscreen and joystick to control product flow at variable speeds. and to deal with jams using the 818's grapple."

#### 880 EQ handles an wide working radius

The 880 EQ here is one of the world's largest material handling machines. Sitting on a crawler undercarriage with 16 ft. (5 m) pylon mount, and equipped with a 99 ft. (30 m) boom, the 880 manages giant stockpiles and a constant flow of haul trucks. The operator is perched more than 36 ft. (11 m) above ground level, allowing a direct view into stacks and trucks. Electrically powered, the machine utilizes its mobility to adjust its optimum loading position within range of its 110 ft. (33.5 m) tether cable.

According to Hine, the huge machine remains rock steady even when the 880 extends its full reach to 99 ft. (30 m) to grab a 26,500 lb. (12 t) load. The moving counterweight in SENNEBOGEN's



equilibrium design keeps the load centered over its base throughout each lift.

## **830 M-T improves log yard logistics**Bruce Hutchins, the Project Lead for Pedersen, says their two 830 M-T machines are real game-changers! These are the only

log handlers today that are able to tow 132,250 lb (60 tons) trailers.

"Before the 830s arrived, we were using wheel loaders, which can't tow and can't stack as high as the 830s either. Now we're moving more logs and stacking them

more efficiently with a bookend system. The way we use space within the yard has improved dramatically," Hutchins says. "This also eliminates our old log deck and waterfall system, so the wood is handled less, with less damage and loss of fiber."

#### **NEW PRODUCTS**

## 818 M "E" Rubber-Tired Material Handler Reliably Speeds Through Work Cycles

With its speed, versatility and reliability, the SENNEBOGEN 818 M E-Series material handler is making a name for itself in log yards and wood processing facilities.

This compact but powerful machine is ideally suited to smaller yards where space is at a premium, narrow aisles are required and maneuverability is an issue. Applications would include feeding chippers and grinders as well as loading

open-top trucks and portable mills or sorting waste in transfer stations.

With a top travel speed of 12.43 mph (20 km/h), the 818 M can move around more quickly to complete loading cycles faster than traditional equipment such as wheel loaders and knucklebooms. The compact machine also fits easily on a flatbed trailer for transportation between yards. ■



#### 830 R-HD "E" Log Handler Gets A Complete Forestry Package



Specially designed for the forestry industry, the SENNEBOGEN 830 R-HD E-Series has the capacity and the control to meet the demands of large operations.

With a lifting capacity of 29,542 lb. (13.4 metric tons), the 830 machine can handle long shifts of heavy lifting. The boom's 44 ft. (13.4 m) reach lets it stack higher than conventional log movers, increasing the wood yard's capacity for inventory. Its crawler undercarriage provides excellent floatation and balance on soft soils.

A live heel designed by SENNEBOGEN is tailored to the 830 R-HD boom to ensure stable handling of large logs. In a mill application in Georgia, the machine operator required only three minutes to unload a truck with his new 830 R-HD E-Series, compared to 10 minutes using the mill's previous log loader.

The same boom can also be equipped with a dead heel to stabilize tree-length loads or a butt'n top grapple for heavy sorting and bunching applications.



#### **New Operation Finds A Fresh Approach To Log Loading** With SENNEBOGEN

Front Royal Transload is one of the "new kids" on the block, working to make the Hampton Tennessee yard a vital hub for intermodal transport. However, with tens of thousands of containers going through the Hampton Tennessee yard every year and much of its volume coming from the logging trade, Director of Operations Randy Langford understands the log-handling business well enough to know that traditional loaders wouldn't do the job for him.

"Sometimes you get a lot of piles going in the yard and you get cramped for space," Langford explains. "Knuckleboom loaders are pretty lengthy machines; they can't get in and out of those tight spaces."

For a solution, Langford turned to the SENNEBOGEN 818 M log loader - a rubbertired purpose-built material handler that is quickly becoming a common sight in American wood yards and mills.

#### "We need mobility"

Langford's search for a fresh approach to log-loading began with Matt McQueen of Power Equipment, the region's authorized SENNEBOGEN dealer. Langford had already looked at the industry's bestknown log loaders, but he continued looking. "All the other machines we looked at were stationary and that's just not what

all you can do is pull up beside the pile. With the SENNEBOGEN, you can pull up to it, you can nose into it, you can back into it, and you have the room to do that. So it gives you more versatility and stability."

#### "See what you're picking"

SENNEBOGEN machines are known for their maXCab operator stations, which, on the 818, hydraulically elevates above



#### These machines are very economical to run. There's no onboard computer, and that's another cost saver.



we need. You have to mount them on some kind of carrier like the 6x6 unit that we had. We need mobility in confined spaces: that was primary for us."

He and McQueen drove to SENNEBOGEN's head office facility near Charlotte, NC. "We tested out one of the machines there: took

the deck to heights of over 15 ft. (4.5 m). "You basically get on top of the loads as you're loading and unloading trucks. You can actually see what you're picking," says Langford. "If you take another type loader up to a truck that's loaded up high in the bunks, you have to unload from the machine side only... you can't see what's on the other side. With the SENNEBOGEN, you can pick and choose because you can see the top of the entire load."

#### "Cycle times are quicker"

Operators had a little adjusting to do when the 818s arrived. According to Langford, "The response times are about the quickest I've ever run, and I've run just about everything! Most of the other equipment has a much slower function to it. With the SENNEBOGENs, cycle times are quicker; I like it. You just have to get a feel for her."

#### "The simpler, the better"

With the SENNEBOGEN 818s now on the job, Langford looks forward to seeing the new operation run both productively and profitably. "These machines are very economical to run. There's no onboard computer, and that's another cost saver; if the computer goes down it gets expensive. They don't have a lot of fancy bells and whistles on them; the simpler, the better for me."

For Front Royal and ARG Transportation, that's a simple formula for success.



Part of the Oregon-based ARG Transportation Services group, Front Royal Transload specializes in moving hardwood logs from trucks into international shipping containers. Langford recently decided to equip the yard with SENNEBOGEN 818s.

one look and determined that this was the machine that we needed for our particular situation. It's the ideal carrier for us because it's compact and it's quick."

Langford notes that the machine's agility is helpful for more than just running between aisles in the yard. "With the other loaders,

## Nova Scotia Calendar Mill Returns To SENNEBOGEN For Versatile Log Handling Service

Two years after purchasing one of SENNEBOGEN's first trailer-pulling log handlers to re-open the Port Hawkesbury calendar mill, Port Hawkesbury Paper LP has added another one to their fleet, replacing two aging machines.

The new 830 has taken over most of the first unit's trailer-pulling duties, loading and moving a 60-ton trailer to the mill's infeed deck. Hauling two truckloads of wood at once through the paved yard is tough duty, with a 39.3 ft. (12 m) rise from the lower mill area to the upper stock

"This new machine is identical to the first: an 830 M-T, trailer puller," Dennis Boulet reports. "That machine worked great for us: great pulling capabilities, handling, lots of power. It lifts high for our deck, which is 18 ft. (5.5 m) at the low end. What's nice about its reach and power is that we

26 ft. (8 m) high, so you can imagine the strain on the machine."

The strength and precision of the 830 M-T is also lending a hand to PHP's management of the fuel wood. "We're doing some tarping trials now, using the 830 to stretch tarps over the stockpile."





#### This new machine is identical to the first: an 830 M-T, trailer puller... Dennis Boulet reports. That machine worked great for us.

area. The drive system of the 830 M-T is custom-engineered for this kind of work. "We are using both SENNEBOGENs to do numerous tasks around the yard," Boulet says, "but the biggest benefit of those machines is their towing capacity."

can go where the truckers put a couple of piles down, pull up on the outside of the piles, then pick off the near tier and reach over it to stack higher on the tier behind. We're stacking two tiers deep. The 830 is reaching in 30 ft. (9 m) and the pile is

Meanwhile, the original 830 has been reassigned to other tasks in various parts of the yard. It's often at work restacking the biomass piles, where PHP stocks random-length wood to supply fuel chips to Nova Scotia Power. "We stock the wood and dry it for approximately a year. We try to keep a 60-day supply of pulpwood in store to get us through the road-closure season," says Boulet.



#### **SENNEBOGEN Is Machine For All Seasons At Groupe Savoie**

"We made a good choice" reports Vincent Caron, Production Vice President for Groupe Savoie in this forestry town of northern New Brunswick.

"I needed a new machine that could handle the cold," he explains. Established in 1978, Groupe Savoie is a successful familyowned producer of hardwood lumber and value-added products, situated high in the north-eastern limits of the Appalachian mountains. Winters here can be bitter cold, and the region is famous for the severe storms that pass through from the Atlantic.

The Groupe Savoie mill was already equipped with a log-loading material handler and with some older knuckle-boom loaders. But the firm has grown through a commitment to utilizing modern technologies to maximize productivity. So Caron and his President, Alain Bossé, were searching for a machine to upgrade the reliability of their log-loading capability.

**Efficient loading increases mill capacity** 

In March, Caron took delivery of a new SENNEBOGEN 830 M-T, a purpose-built 90,000 lb. log handler featuring an undercarriage specially engineered for trailer pulling.

Caron and Bossé trialed several logloading machines before choosing the SENNEBOGEN. "We visited a sawmill operating a SENNEBOGEN 825 model,

and our technician was quite satisfied with it and we were very impressed with SENNEBOGEN's response time to issues. He saw good service support at this site as well as got very good feedback from some other SENNEBOGEN customers in Nova Scotia."

In the end, Caron says, he and Bossé were pleased with the machine's fuel economy, traction, service accessibility, speed and strength. Its productivity in moving wood from the yard to the mill sealed the decision. "In effect, the efficiency of its loading cycles increased our capacity at the mill," Caron says.

#### Winter cold to Spring mud

The 830 M-T is equipped with 1 1/4 cord grapple. The yard sometimes utilizes the machine to unload trucks, but its primary role is to load and pull a 36 ft. 3-axle trailer. It picks stock from inventory to fill the trailer with up to 40 tons, then completes the cycle by offloading to a stockpile bunk at the mill.

With the machine's delivery this past winter, operators told Caron that they were impressed with its reliable starts on the coldest days. The new unit had met management's goal of reducing downtime. Operators also say they appreciate the

stability of the 830, even with its hydraulic cab fully elevated. But the 830 really showed its mettle when the cold weather abated, and the Spring thaw began.

the mill, powered by a purpose-built undercarriage driven with transmissions

on each axle.

"The yard is compacted earth," Caron explains. "And it's not a flat yard; we have some grades to climb to and from the mill. When the frost comes out in Spring, the yard can turn into 12" to 18" of mud - last year was very wet and we had spots with up to two feet of mud. But the M-T just carried on. It's a good tractor!"

#### A reliable solution

To date, Groupe Savoie is confident that they found the reliability they needed for the mill's operation. The mill's own technicians service the 830 M-T but, according to Caron, "...our team got good support for technical service. The SENNEBOGEN dealer, Strongco, came here to train our guys. Our rep at Strongco, Alan Lindsay, is a very good salesman."

Through its three sawmills in the region, Groupe Savoie is producing 90 million FBM (213,000 m<sup>3</sup>) of hardwood annually. With the addition of the 830 M-T, the company looks forward to continued growth and success through its investment in reliability and productivity.



## The SENNEBOGEN 735 Sets The Pace For Pick & Carry Operations.

Purpose-built to move wood with minimal maneuvering effort along direct travel paths. With all-wheel steering and just 12 ft. (3.6 m) wide, the 735 M-HD easily negotiates its way between

tight rows of stacked logs. With a 32 ft. (9.7 m) reach, it is able to pick loads quickly and safely.

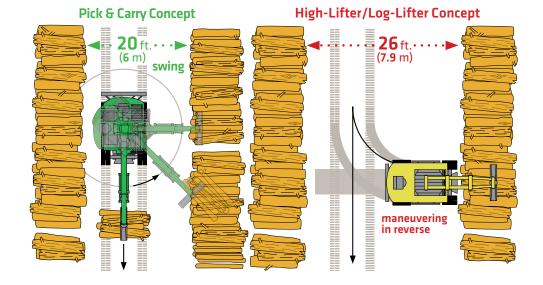
The driving and transport machine is especially designed for free-standing use with safe working loads up to a maximum of 20 t. ■



25%

## **Less Space**Needed Between Stacking Rows

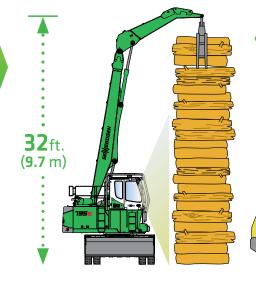
With all-wheel steering and just 12 ft. (3.6 m) wide, the 735 M-HD easily negotiates its way between tight rows of stacked logs.



50%\*

#### Higher Stacking

Being able to stack the logs higher makes business growth possible.



See the SENNEBOGEN
735 M-HD pick and carry
machine in action, handling
timber in a sawmill







<sup>\*</sup> Percentages will vary depending upon conditions.



When Lewis Griffith comes into work these days, he gets to see first-hand the results of his previous job with the City of Tacoma.

Griffith is Assistant Division Manager responsible for onsite operations at the new transfer station operated by the City's Solid Waste Utility. Before moving into this position, as a member of Tacoma's Engineering Department, he was on the design team that developed this award-winning facility.

Part of the 190 acre (76.9 hectare) Tacoma Recovery and Transfer Center, the new 83,000 sq. ft. (7,710 m<sup>2</sup>) transfer station, opened in the Fall of 2011. Handling

165,000 tons of garbage per year, the station achieves a vision of maximum flexibility, able to adapt to variable waste streams and traffic demands. The ultimate aim was to increase the volume of material diverted from the landfill into various recycling streams.

The City had set its sights on earning LEEDS certification, and was awarded LEEDS Gold standing for its efforts. SWANA (Solid Waste Association of North America) recognized the City's effort with its Award of Excellence for 2013.

#### Purpose-built design

Near the same time Griffith took the reins to manage the facility, at the beginning

of 2014, Griffith saw the operation take another big step toward its goal, with the commissioning of a new SENNEBOGEN 821 R-HD material handler.

Griffith explains, "We designed the facility with a material handler in mind. We gave it a large open floor to provide more room for sorting and recovery from the waste stream. The vision was to select loads that would have more of that type of recoverable material to be dumped on the floor here"

Most of the material delivered to the transfer station is handled by wheel loaders, which push loads into the compactors for disposal in the landfill. The SENNEBOGEN machine is used to sort recyclable material and to pick out oversize items that are too large for the compactors.

#### "Ideal" for sorting waste streams

Mike Chapin is one of the division's Heavy Equipment Operators who received training from SENNEBOGEN to run the

variable traffic flows in the station, he says, "They are a big help. There's a fair bit of traffic... the area I'm working in is for the general public.



We designed the facility with a material handler in mind. We gave it a large open floor to provide more room for sorting and recovery from the waste stream.

58,000 lb. (22,680 kg) purpose-built machine. After two-days of orientation on the new equipment, Chapin has been operating the 821 for about 60% of the day through his 10-hour shifts. Based on his 18 years at the controls of heavy equipment, he is pleased with the City's choice for this application.

The grapple allows Chapin to pick through mixed loads of wood, metal and cardboards from commercial and consumer waste material. "We also have a top-load bay with a trailer parked below the tipping floor level to receive oversize items. The SENNEBOGEN is ideal for picking up those items and lowering them down into the trailer - that's a 13 ft. (4 m) drop - without damaging the walking floor. With the SENNEBOGEN, you can actually maneuver things around and set them in there really gently. When we get broken or rotten telephone poles, we load them into a trailer parked right on the tipping floor. Thanks to the hydraulic elevating cab, I'm up high enough to see right down into the semi-trailer, and I can articulate the logs any way I need to, to make a good load."

#### Flexibility and safety

Along with the precision and versatility of the 821, Chapin appreciates the safety aspects of its design, as well. The machine's square footprint gives it inherent stability, without requiring outriggers, to lift and move equal loads through 360° of swing. He also acknowledges the value of the two safety cameras (1x rear, 1x right side) provided as standard equipment on SENNEBOGEN machines. Noting the open design and

We get anything from cars to pick-up trucks to dump trailers unloading garbage and construction debris here."

Working under-roof, Chapin recalls some early concerns about potential damage to overhead electrical and sprinkler lines.

continued to refine its recycling processes. Aided by the precision and flexibility of the 821, the volume of material captured for recycling from the waste stream handled in the transfer station has doubled over the past 18 months.

Lewis Griffith believes the City is on the right track. "There are so many varieties in the waste stream now; they have different characteristics and we now have opportunities to treat them differently. We didn't know exactly how the material would move through the building; so we built for flexibility: a flat floor; no limiting walls or elevated areas, and multiple routes through different doors that let us change traffic lanes from weekdays to weekends."

As the facility evolves, its use of the SENNEBOGEN 821 will evolve, too.



These were quickly resolved with the installation of limit switches that keep the height and reach of the 821's boom within safe limits. Chapin can override the switches, if needed, to complete a specific maneuver.

Improving capture of recyclable waste Since the 821 arrived at the transfer station. Griffith and his team have "We're looking for ways to have the material handler do the bulk sorting, and then do some hand sorting or put the material on the conveyor for some kind of further process. "That's kind of in the future" Griffith concludes, "...looking at our options."





#### The Right Machine For A "Single Source" Recycler

Wolf Disposal handles a full range of recycling solutions using their 818 M E-Series

For Carolin and Heinz Wolf, their new machine had to be a SENNEBOGEN right from the start, and not just because their facility is located just a few miles from the SENNEBOGEN factory in Straubing, Germany.

Founded in 1905 as a trucking firm, Wolf has been active in the disposal industry since 1977. The family-run enterprise is a single source for recycling solutions for all materials from scrap wood to paper and plastics, as well as industrial scrap. The SENNEBOGEN 818 M waste handler is used for the sorting and loading of recycling materials. The compact material handling machine travels quickly and nimbly over the

entire site, sorting and loading industrial waste or feeding the plastic shredder.

The shredder operation is located indoors with just a 25 ft. (7 m) ceiling height. This presented a particular challenge. However, the 818 M seems custom-made for the job.

Constantino Lannes, President of SENNEBOGEN LLC, points to the energy efficiency of the

E-Series models as an important advantage for North American operations. "The 'Green Efficiency' technology provides an E-Series



machine that offers tremendous fuel savings without degrading performance," says Lannes.

#### **Electric Material Handler With Guaranteed Mobility**

#### A SENNEBOGEN 821 M With An Integrated Powerpack

At first glance, the new SENNEBOGEN 821 M "E" now working at the MEAB waste recycling center appears to be an ordinary material handler. Since the new SENNEBOGEN 821 is primarily used indoors, the site's decision-makers

out of the recycling bay and relocated for other duties. When it's time to move, the operator simply removes the large plug, rolls the power cable up on the drum and starts the diesel Powerpack that's built into the 821's counterweight. Then he just switches

at one time, sorting piles or feeding grinders at another. With an integrated Powerpack, the 821 Electric increases the utilization of the machine which increases the ROI"

Instead of a counterweight, the rear of the material handler contains a powerful diesel



had quickly opted for electric drive. The advantages of electric drive are widely known, but the next notable feature of this unit is more of a surprise. MEAB requires the machine to be driven quickly the motor to diesel mode and the waste handler is ready to roll.

"But many centers require the versatility of a mobile machine to support operations in different areas of the facility - loading trucks

Powerpack. This provides the power to the motor. With just a few steps, the electric machine can be driven anywhere without having to worry about being tethered to its power supply.

#### **New Material Handlers Sorting And Loading**

Two new SENNEBOGEN 818 M material handlers are sorting 150,000 t of domestic and commercial waste per year for Entsorgungswirtschaft Soest GmbH (ESG), the waste management authority for the district of Soest in the North Rhine-Westphalia region of Germany.

According to the research, each resident in Germany produces around a halfton of domestic waste per year. This means that German households are producing just under one ton of waste every second. Responsibility for the disposal and recycling of waste is shared between cities, communities and private companies. To handle the local volume for 300,000 residents in the region, ESG has been working closely with two private companies, Remondis and Veolia Umweltservice, since 1993.

#### Robust SENNEBOGEN material handler with 30 ft. (9 m) boom

The local SENNEBOGEN sales and service dealer delivered two new machines at

the beginning of 2015 to sort and load the waste. Their latest generation of modern material handlers is powered by a 103 HP (97 kW) diesel engine, a 29.5 ft. (9 m) reach, and numerous safety features. The cab, which can be elevated up to 18.8 ft. (5.7 m), gives operators an excellent view of the

work area. For added health and safety, the machine is also fitted with cameras and work lighting, protective ventilation and access to a grapple scale as it works at a number

of tasks including sorting and loading shipping containers.

According to Operations Manager Dirk Conrady, the machine's purpose-built design, its wheeled undercarriage, its ease of maintenance and simple handling were all critical factors in choosing the SENNEBOGEN machine.



#### **Proven Reliability Wins Shredder Duties For SENNEBOGEN** 821 At Sweden's CarlF Facility

For over 125 years, the Swedish company CarlF AB has been doing waste disposal and recycling in the Malmö region of Sweden. While moving goods with horsedrawn carts was at the forefront of their business in the early years, the familyowned company, now in the 3rd and 4th generation, has since become a recycling specialist.

Yellow and red are the company colors of the Swedish recycling enterprise - everything in the vards is in company colors except for the newest piece of equipment: a green SENNEBOGEN 821. CarlF exclusively relies on small maneuverable machines that can easily move around the scrap yard. With an operating weight of around 23 t and

"The reliability of our SENNEBOGEN machines sold us on the new

all-wheel drive, the new 821 can quickly get to wherever it is needed with speeds of up to 12.4 mph (20 km/h).

SENNEBOGEN 821." Operations

The facility collects and sorts about 12 t of construction rubble and industrial waste every day. The new SENNEBOGEN 821 feeds a Doppstadt shredder. The reliable performance of the 818's with more than 7.500 hours led the CarlF team to choose SENNEBOGEN again.

The 821 E-Series is fitted with a sorting grab to

re-sort the incoming material and feed it to a shredder. The elevating maXcab give operators an optimum view into the shredder and enhances safety in the busy yard.



"The Duwamish River dock site is a new type of facility for Waste Management," says Nick Harbert, District Manager for Waste Management. "The long-term plan for the 16-acre site is to unload contaminated sediment from the river off barges, de-water it, and then load the solid material onto waiting railcars for transport to landfills."

Waste Management officials knew they would need the right kind of equipment for the new dock application to meet the high productivity levels they had set for themselves. A purpose-built SENNEBOGEN material handler was deemed the solution. but company officials debated the merits of SENNEBOGEN 880 and 870 models and were torn between either a diesel or an electric-powered machine.

#### Due diligence lead to purchase of **SENNEBOGEN 875 R-HD**

"SENNEBOGEN LLC. arranged a trip to SENNEBOGEN headquarters in Germany for Waste Management officials to see

Harbert also says seeing a SENNEBOGEN 875 R-HD at the 2014 Con Expo Show in Las Vegas with John Meese, Senior Director of Heavy Equipment, and having the opportunity to have that conversation



Waste Management officials knew they would need the right kind of equipment... A purpose-built SENNEBOGEN material handler was deemed the solution.



various models of the purpose-built green machines in operation doing similar type applications," says Harbert. "They liked what they saw and came back to North America convinced that SENNEBOGEN was the right machine for the Duwamish site."

with him and Erich Sennebogen, tilted the decision in favour of the 875 material handler and the order was placed.

"The SENNEBOGEN 875 R-HD's extended reach and its ability to handle a 6-yd. clamshell bucket were the key determining factors," says Harbert. "We decided to go with the electrically-powered machine because we would be working on a river and wanted to minimize the potential risk of spills from the machine. We also wanted to hold ourselves to a higher environmental standard. Minimizing the noise level of operating the machine was a factor, too."

### Environmental hurdles and requirements necessitated a change in the 875 R-HD job application at the Duwamish site

Unfortunately, environmental hurdles and requirements slowed development of the Duwamish site. "After Waste Management became the long-term tenants of the site in April 2014, we were unable to begin construction of railroad tracks as there still had to be more site assessment work done by the state environmental regulatory agency," says Harbert. "As a result, the Boeing material could not come to the

of clean back-fill material from trucks onto barges to be taken to fill in the holes left by the dredging," says Harbert. they witnessed Waste Management's material handler in operation at the Duwamish site. "They wanted to get



Our SENNEBOGEN 875 R-HD has been phenomenally efficient and productive in this operation, cutting barge-loading times significantly.



"Our SENNEBOGEN 875 R-HD has been phenomenally efficient and productive in this operation, cutting barge-loading times significantly. Whereas, it had previously taken operators 4 to 5 hours to load a barge with back-fill material, our SENNEBOGEN was able to do the same operation in two hours. During an evaluation meeting, company officials made it very clear that they would not

one of these machines," he says. "It has definitely been a great asset to our operation."

#### Duwamish River dredging and remediation a long-term project

The dredging and remediation of the Duwamish River will continue for many more years. The river is an EPA-managed Superfund site with plans to move over 1 million cubic yards of contaminated



Duwamish site and it had to be processed at a third-party facility on the river."

The good news is that Waste Management's SENNEBOGEN 875 R-HD has been put to use in the meantime.

"While we wait for the necessary approvals, what is happening at our Duwamish site now is the off-loading have been able to meet their contractual obligations without the aid of our facility and our SENNEBOGEN material handler."

Harbert says his operators are very happy with the simplicity, performance and the responsiveness of the SENNEBOGEN 875 R-HD machine, joking that other contractors experienced "green envy" when

dredge sediment over the next several years. Harbert says Waste Management's Duwamish site will be fully operational within a year or so and will be very much a part of that ongoing remediation project. He says the company is also bidding on similar dredge operations elsewhere.



#### **SENNEBOGEN 875 R-HD Is On The Mark For Robindale Energy's Donora Dock Operation**

Paul Theodorakos, Equipment Manager for Robindale Energy and its associated companies, readily admits that dock operations and material handlers were new to him when his company acquired an existing dock operation in Donora, on Pennsylvania's Monongahela River in 2014.

"We're in the coal mining business and, in my 39 years of experience, I never needed to unload barges," says Theodorakos. "A 1990's vintage excavator, modified for material handling, came with the Donora property. But it wasn't capable of handling the volume of coal we anticipated. I immediately started making phone calls, doing research to know what type of equipment would be best for off-loading coal barges. All signs directed me to SENNEBOGEN."

#### Seeing a SENNEBOGEN 875 R-HD in action sealed the deal

A trip to the Charleston Bulk Transfer (CBT) facility operated by Maybank

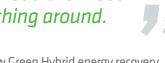
Industries Group in South Carolina was in order. Lee Gibson of Gibson Machinery, one of SENNEBOGEN's longest standing distributors, joined Theodorakos and his team to watch CBT's recently acquired SENNEBOGEN 875 R-HD in operation. Located on the Cooper River, the Charleston Bulk Transfer facility moves upwards of

down," recalls Theodorakos, "In this case, the machine bore out his words. I was impressed with a lot of its features, and especially its 'Green Hybrid' system."

The large third hydraulic cylinder mounted between the two main boom lift cylinders on the 875 R-HD is the centerpiece of



It's meeting all our targets. We can unload a barge in 1 1/4 hours or less and, with two barges at the dock, we can unload them both without having to move anything around.



12,500 tons of coal per day from barge to shore. This convinced Theodorakos that a similar machine would be ideal for his operations with Donora Dock LLC.

"Our host, Turner Fabian, the President of CBT was most accommodating - he just bragged about his company's 875 up and

the new Green Hybrid energy recovery system developed by SENNEBOGEN. It captures power when lowering the boom in order to apply it again with the next lift. SENNEBOGEN's advanced design utilizes the firm's well-proven hydraulic expertise along with accumulators to maintain an extremely smooth operation while cutting the required energy by 30%. The resulting fuel savings are significant.

#### Meanwhile back at the Dock

While SENNEBOGEN completed assembly of their new SENNEBOGEN 875 R-HD, the Robindale team returned to Donora to commence operations with a SENNEBOGEN 850 M. The rubber-tired 850 M was fitted with a 5 yd. bucket. By the time the 875 arrived this summer, the 850 had earned a permanent place in the Donora fleet, as a back-up and supplement to the larger machine.

After testing the 875 through a few hundred operating hours, the onsite manager of the Donora Dock, John Ross remains convinced that this machine was the right choice. Swinging its 14 yd. coal bucket through several loading cycles per minute, he says the machine has the potential to offload as many as 6 jumbo barges in a day.





#### **Producing more for less cost**

Ross and the 875's lead operator were part of the team that visited Charleston and recommended the purchase of the machine. "It's meeting all our targets," Ross reports. "We can

unload a barge in 1 1/4 hours or less and, with two barges at the dock, we can unload them both without having to move anything around. The operators just love the machine's elevating cab with its glass floor, and the excellent visibility it allows when the cab extends out above the barges.



The 875 is very quick, very agile and stable. It's a well-designed machine."

"But the biggest thing is the fuel!"
Ross continues. "In 39 years, I never saw a machine that big use so little fuel."
Recalling the 43% saving in diesel costs that CBT has achieved in Charleston, the machine in Donora is "right on track" to produce comparable results.

"We spent a lot of time making this decision, looking at other equipment," says Theodorakos. But this machine is the one that's really built to be a material handler. We're happy with our decision."



#### SENNEBOGEN 860 Is A "Win/Win" For Economy And **Environment At CHS Fertilizer Terminal**

Ruben James arrived in Melbourne, KY in the summer of 2013 as Terminal Manager for the new barge facility purchased by CHS, the farmer-owned agribusiness cooperative. Receiving granular fertilizers from all over the world, the 27,000-ton dry storage facility on the site, trucks crop inputs to farms throughout America's eastern Corn Belt region.

As he set out to equip the terminal, he told Ben Sutkamp at Murphy Tractor, the regional dealer for SENNEBOGEN, that his goal was 500 tons per hour. Sutkamp told him, "I have a machine that can do that for vou."

James reports that Sutkamp and his SENNEBOGEN Area Manager visited the terminal on several occasions as his plans were developing. "I explained the set up here and what we're trying to do. They were are excellent to work with, and very

supportive. Anytime I've contacted them with a question or an issue, they're on top of it."

By mid-August, James' new electric drive SENNEBOGEN 860 R-HD material handler was unloading its first barge. The 860 R-HD, a 180,000 lb. (81,650 kg) machine, is equipped with a 59' (18 m) reach and a 5.5 yd. clamshell bucket. Mounted on a crawler undercarriage, the machine sits level with the river on a barge with a crane mat. "We have four smooth-out ratchets tied to the running gear, welded down to the barge," James explains. "The crawler base gives us a better footprint. On top of that, the feeling of stability is phenomenal! When you reach down with a 5.5 yard clam completely full of fertilizer and you're really not rocking, and there's no tracks lifting up off the ground, you're really a lot more comfortable while you're up in the air in the cab."



The big green machine quickly showed that it would keep pace with the terminal's new conveyor system. Meeting his throughput goal, James is also pleased with the SENNEBOGEN's cost to operate. He was already convinced he wanted an electric drive machine before he first contacted Murphy Tractor. "The previous facility here also had electric power to operate its crane. Electric power keeps fuel away from the river and it's more cost-efficient. Environmentally and economically, it's a win/win."

#### SENNEBOGEN 840 R-HD & 835 R-HD Maximize Uptime In Wat



White Lake Dock & Dredge, Inc., located in west Michigan, trusts the reliability and responsiveness of its SENNEBOGEN material handlers to keep sensitive environmental remediation operations running smoothly.

Robert Gezon, President of White Lake, says, "We specialize in environmental sediment remediation and subaqueous capping projects, as well as marine construction and waterfront development. We work in some of the most difficult to access and environmentally sensitive locations in the United States and Canada."

"Our SENNEBOGEN machines are part of a readily-transportable fleet of specialized, production matched, marine and shore-side equipment.

For most projects, WLDDI pairs its SENNEBOGEN machines with long-reach excavators. Dredged material is brought to

## SENNEBOGEN 840 Sets The Pace For Seasonal Loads At Alabama Dock Operation

Moving 8 to 10 million bushels of material is a respectable year's work for any river dock. When the material you're moving is a seasonal field crop, the challenge moves up to another level.

That's the challenge that Vaughn Gambrell faced when he was named



Superintendent of the barge facility in Decatur, AL operated by Gavilon, a leading global commodity management firm.

To meet this target, Gambrell has to keep pace through the seasonal peaks of agricultural products, with as little downtime as possible while vessels were waiting. The chosen solution was a SENNEBOGEN 840 R-HD. The dependability of the green machine came through recently when a grain shipment was re-routed to the Decatur facility, with an urgent need to offload quickly. Barges ran loads from the vessel non-stop for 30 consecutive days, and the 840 never missed a step. The D-Series 840 model is mounted on a crawler undercarriage and equipped with a 36 ft. (11 m) banana boom, which carries a 5.5 yard clamshell bucket.

The dependability of the 840 pays off in cost savings as well as productivity.

Gambrell says his maintenance crew finds troubleshooting to be very simple with plain-English error codes appearing on the machine's SENNCON diagnostics screen. Fuel efficiency adds to those savings "We can unload almost two barges on one tank of fuel," Gambrell says.

The 840's long reach helps to maintain stockpiles up to 40 feet high (12.2 m). Gambrell also uses it to assist in tarping the piles by supporting most of the tarp's weight and positioning it while crews on the ground secure it.

With the speed and precision of the 840, transloading directly from barges to trucks becomes a smooth, highly efficient process. "We can plan our logistics to load straight into the outbound trucks," says Gambrell, "and that lets us save a step in storing the grain in our elevators."

#### erways Remediation

shore where a SENNEBOGEN 840 R-HD or 835 R-HD unit offloads the barge with a 2.6 yd. clamshell bucket. "The SENNEBOGEN machines have been significant in improving our cycle times and efficiency," adds Gezon. "We love their material handling capabilities and elevated cabs. Being able to see into the barges and trucks allows our operators to unload the barges and load trucks much faster and safer without any risk of spillage or damage to the equipment."

Gezon is impressed with the responsiveness of the SENNEBOGEN hydraulics and engineering for handling potentially harmful contaminated material. "From the dredging on the barge to the loading of the trucks on the shore, the dredged material never touches the ground. We don't spill a drop," says Gezon.





## Safe & Sound

"Safety is not an option" on SENNEBOGEN equipment. We value our customers, so we don't charge extra to keep them protected on the job! We build all of these safety measures as factory-standard features.



Limit switches on the boom and stick prevent hanging attachments, such as magnets and grapples, from swinging into the cab.



permanently at the cab entry to provide a safe perch for access to and from the cab.

a hinged door.



Daily lubrication of the undercarriage at front of machine from ground level.



With transmission engaged, there is an audible travel alarm.

#### Optional safety features for special needs:

- Bulletproof windshield
- Bulletproof skylight
- Windshield protection guard
- Fire suppression systems
- · Skylight protection guard
- Rotation beacon for travel





provides a right-view and rear-view camera

The jump start connection, battery shut-off and main circuit breakers are all easily accessible from the ground.



With our auto-lubrication system, service personnel do not have to climb on the machines, preventing slip and fall injuries from grease on exposed surfaces.

ensure 3-point contact when climbing from the ground to the upper deck.



lifting stance to minimize tipping hazards.

## Factory Tour MADE TO **ORDER**

The built-in value of SENNEBOGEN equipment begins with the "purposebuilt" design of our manufacturing facilities.

SENNEBOGEN is able to deliver purpose-built machines competitively because our engineering and manufacturing processes are designed to respond flexibly to customer requests. We use common components across many products and build up finished products as needed.

Established more than 60 years ago, the family firm now employs over 1,100 people in Germany, Hungary, USA and Asia. These factories have produced more than 45,000 machines in the past 35 years alone. ■





#### Straubing I

Our corporate headquarters was built in 1959 on an 11 acre/ 4.45 hectare site on the Danube river in southern Germany. Office & production space here totals 172,000 sq. ft./ 16,000 m<sup>2</sup> and provides employment for approximately 200 workers. Manufacturing activities focus on the assembly of base carriers and the fabrication of steel components.



#### **Straubing II**

A major expansion in 2008 more than doubled SENNEBOGEN's physical plant space in Straubing. Located on 30 acres/ 12 hectares near the original plant, our second facility in Straubing is home to SENNEBOGEN research & development and final assembly of large machines.





#### **Balatonfüred**

Best known as a lake resort, this town in the west of Hungary also provides an important link in the SENNEBOGEN manufacturing process. The 235,000 sq. ft./22,000 m² facility was integrated into the group in 1996. Its 300 employees are responsible for the fabricating of steel components as well as the machining of steel structures.



#### Wackersdorf

SENNEBOGEN built its second factory in 1991, located one hour north of the corporate head office. As our resources have grown, the Wackersdorf plant has been designated as the main site for final assembly of *green line* material handlers. The 270,000 sq. ft./25,000  $\text{m}^2$  office and production facility is staffed by 200 employees.





Dealers and end users are reaping the benefits of hands-on training at the Training Center in Stanley, NC. Customers find they can reduce downtime by working through some smaller issues on their own, and dealers report that the training gives them a competitive advantage in service excellence.

At Metro Group, Inc., Utah's premier metal recycling and transloading company, SENNEBOGEN-trained company technicians perform most of the maintenance on their fleet. "A lot of OEMs don't want to show anybody else how to service their machines," says Mark Bond, President of Metro Group. "It's a big advantage for us to be able to work on our own machines."

For dealers, better training means better service. Pat Callahan, Manager of Parts and Service for Strongco's Nova Scotia operation says it is worth the time and long distance travel to the Stanley Training Center. Callahan regularly sends his technicians and members of their Parts

Department for the free advanced technical training and specialized parts courses offered by SENNEBOGEN.

"'Wow, was my first impression," says Bill Schoenfelder, President of The Victor L. Phillips Co., a SENNEBOGEN dealer. "I cannot say enough good things about

the staff, the facility, the commitment and the vision that SENNEBOGEN has set forth in Charlotte. SENNEBOGEN provided outstanding support with product and service specialists on hand to conduct the training - well worth the time."

Dave Harris of Anderson Equipment said he values the focused, hands-on instruction he received at the Training Center. "I like the accessibility you have to a clean machine ... sometimes you go to training where everything is on paper and you can't relate it to the real product. Here, we can see

At the SENNEBOGEN Training Center, the focus four people, each student has opportunities to try our simulators, get their hands on a working machine and ask questions. Our instructors stay up-to-date on the latest SENNEBOGEN technology and products.



where we would find things on the machine if we need to repair it in a hurry in the field."

Harris also appreciated being around his colleagues for a week. He said that during the course, he had the opportunity to train with technicians from his company that he didn't normally see because they were in different locations. He heard about other experiences in the field and got tips and ideas.

"It's a good program from the classroom to the machine," says Dennis Boulet, Operations Manager, Port Hawkesbury Paper LLC.

### SENNEBOGEN COURSES

Service Level 1 D-Series Service Level 2 D-Series Service Level 1 E-Series Service Level 2 E-Series Parts Training Operator Familiarization

Visit us online at www.sennebogen-na.com/training or scan the QR code below

## New Website Focuses On The "Purpose" Behind "Purpose-Built" Machines

SENNEBOGEN LLC recently launched its new website, designed to turn the spotlight onto the users and the applications for purpose-built material handlers throughout the Americas.

The new design provides a versatile platform that will allow the website to continue growing and adding new services to support its dealers and customers. SENNEBOGEN's focus is clearly more on people here, not just machines. The new version starts with the ways customers use our purpose-built material handlers to achieve the goals and purposes of their business, leading to a complete online catalog of machine models and configurations.

An extensive library of jobsite reports further expands on the varied ways in which SENNEBOGEN machines are adapted to perform specific tasks.

Additional links throughout the website lead visitors to relevant videos of the machines in action.

The design of the website is also structured to support several new ideas, already in development, to make the website even more interactive and more service-oriented.

www.sennebogen-na.com







The warehouse stocks complete inventories of service and repair parts for every model.

Every year SENNEBOGEN continues to invest in our facilities, staff, inventories and services - because we believe in the strength of our distributors and their customers.



site and includes the offices, Training Center and warehouse.



SENNEBOGEN LLC | 1957 Sennebogen Trail | Stanley | NC | USA | 28164 | +1-704-347-4910



