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Quick Attach Systems
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 UTimes.

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 UTimes 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!
Join The Green Revolution!

**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 industry-standard 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 EQ (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 m²) and manage piles to a height of 85 ft. (25.9 m). In port operations, the 8130 EQ can unload goods from ships or handy-size-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 one-quarter 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.

**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.

With considerable fluctuations in diesel costs, many facilities use 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 unhindered between locations in a facility.

**Electric Drive**
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.

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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.

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 2.5t shear. Equipped with a powerful 225 hp (164 kW) diesel engine 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 max/cab, 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.

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 full-service 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 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.”

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 trained 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 cabin make it easy to work with from a servicing perspective, “ they noted. “The handling reflects the same quality as the 818 machine.”

SCRAP/STEEL

Maximum Throughput • Built-in Safety
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) pylons, 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 tight spaces.”

For a solution, Langford turned to the SENNEBOGEN 818 M log loader – a rubber-tired 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 best-known log loaders, but he continued looking. “All the other machines we looked at were stationary and that’s just not what we need. You have to mount them on some kind of carrier like the 666 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 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 maxICab operator stations, which, on the 818, hydraulically elevates above 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 try 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.”

Langford notes that the machine’s agility is helpful for more than just running between aisles in the yard. “With the other loaders, you basically get on top of the loads as you’re loading and unloading trucks. You can actually see what you’re picking.”

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Trucks get unloaded in double-quick time while the front and rear stacks get higher and higher.

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.

“We are using both SENNEBOGENs to do numerous tasks around the yard,” 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 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 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 tarp over the stockpile.”

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 stack 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 family-owned 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 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 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 m³) 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.

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.

Higher Stacking

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

* Percentages will vary depending upon conditions.
City Of Tacoma Steps Up Its Award-Winning Waste Facility With SENNEBOGEN Material Handler

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 m²) 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 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 the ability to maneuver from one lane to another, taking 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 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.
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 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 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 ROL.”

Instead of a counterweight, the rear of the machine is also fitted with an integrated 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 half-ton 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 305,000 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.

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 horse-drawn carts was at the forefront of their business in the early years, the family-owned 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 yards is in company colors except for the newest piece of equipment: a green SENNEBOGEN 821. CarlF exclusively relies on small manueverable machines that can easily move around the scrap yard.

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 7500 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 gives operators an optimum view into the shredder and enhances safety in the busy yard.

High Visibility • Precise Handling • Low Emissions
Waste Management opted to power its new SENNEBOGEN 875 R-HD with an electric drive so environmental risks to Seattle’s Lower Duwamish Waterway would be minimized.

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 Duwamish site."

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

"The 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 have been able to meet their contractual obligations without the aid of our facility and our SENNEBOGEN material handler."

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 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."

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"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, with him and Erich Sennebogen, tilted the decision in favour of the 875 R-HD job 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.

"While we wait for the necessary approvals, what is happening at our Duwamish site now is the off-loading of clean back-fill material from trucks onto barges to be taken to fill in the holes left by the dredging," says Harbert.

Various factors caused Waste Management officials to see SENNEBOGEN headquarters in Germany for Waste Management officials to see 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.”

The new 875 E material handler combines high-capacity production with the industry’s new standard for cost-efficient performance.

■ Accumulators capture potential energy generated by vertical boom movements
■ Guarantees high productivity, fast cycle times combined with high lift capacities
■ Recover up to 30% of lifting energy from the boom
■ Engineered with standard hydraulic components

EXPERIENCE THE SYSTEM

SCAN TO WATCH AN ONLINE VIDEO DEMONSTRATION

High Capacity • Fast Duty Cycles • Low Operating Cost

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

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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 1950’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 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 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 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.

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 ¼ hours or less and, with two barges at the dock, we can unload them both without having to move anything around. The 875 is very quick, very agile and stable. It’s a well-designed machine.”

“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 you.”

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 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 Waterways Remediation

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 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.

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 SENNEBOGEN diagnostic 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 stackpiles 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.”
Optional safety features for special needs:

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

A dual camera system including cab monitor ensures 360º visibility. Only SENNEBOGEN provides a right-view and rear-view camera as standard to provide a view past the boom.

The sliding door of the maXcab allows safer entry and exit than a hinged door.

The ergonomic design of SENNEBOGEN maXcabs enhances safety by combating operator fatigue and providing large glass areas on all sides for maximum visibility of the entire worksite.

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

With transmission engaged, there is an audible travel alarm.

Diagnostic system with audible and visual alarms in cab.

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

Safety check valves protect operators from falling equipment in the event of sudden pressure losses due to a breaking hose.

A catwalk and railing are mounted permanently at the cab entry to provide a safe perch for access to and from the cab.

Ball valves in the cab and at ground level allow emergency lowering of the cab.

Wide steps, an access ladder and handrail ensure 3-point contact when climbing from the ground to the upper deck.

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.

The footprint of the undercarriage and a central swing point allow equal load limits on all sides through 360º, ensuring a stable lifting stance to minimize tipping hazards.

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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.

**Factory Tour MADE TO ORDER**

The built-in value of SENNEBOGEN equipment begins with the “purpose-built” design of our manufacturing facilities.

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Each model in the green line can be built to basic specifications, then mounted on the customer’s choice of mobile or stationary platforms.

SENNEBOGEN material handlers begin with a wide range of common components that streamline customization and also simplify after-sales parts and service.

**Straubing I**

Our corporate headquarters was built in 1959 on an 11 acre/4.4 hectares site on the Danube river in southern Germany. Office & production space here totals 172,000 sq. ft./16,000 m² 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 m² office and production facility is staffed by 200 employees.

**In the Quality Assurance area, our Quality Team goes over each machine before it leaves the factory.**
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 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.

At the SENNEBOGEN Training Center, the focus is hands-on learning. With class sizes as low as 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.

The Training Center Helps Dealers Improve Service

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.

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We service all manufacturers and models

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• Over 30 field technicians statewide
• 4 lube trucks statewide

Exceptional Service and Repair
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• On-site line boring statewide
• 5 spacious repair facilities
• Hydraulic Cylinder repair - all makes

Preventative Maintenance
• Guaranteed response time for customers on service programs
• Planned maintenance costs
• Cost-effective
• Environmental compliance
• Increased machine availability
• Increased equipment value
• Longer machine life

Genuine, Factory Warranted Parts
• Most parts available within 24 hours
• Overnight availability on all in-stock parts
• Millions of construction equipment parts on our proprietary database
• Parts for hundreds of makes and models on the shelf
• Custom parts programs available
• Over 15 drop box parts locations statewide
• Aggregate and Undercarriage parts for all makes

We service all manufacturers and models

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