



JX – the New Standard

The new generation of JX unbalance motors, which are derived from the extensive product portfolio of JVM drive technology, provides the optimum response to your specific needs.

Every day, the JOEST group's plants and conveyor systems master challenging applications in the field of vibration technology. In addition to our structural designs and process engineering that is adapted to your requirements, our use of reliable and durable drive components underlines our approach to providing long-lasting and sustainable solutions.

As standard, we provide explosion protection for zones 2 + 22 (ATEX II 3 GD), as well as PTC thermistors and variable-frequency connections (sizes 07 – 17), thereby significantly expanding the possible range of applications for our standard models and ensuring increased process reliability.

From the earliest stages of development, we placed the emphasis on integrating well-known and proven features from earlier models into our innovative concept. „State-of-the-art“ industrial design was combined with individual component calculations while maintaining the proven connection dimensions, thus taking development of the JX series of unbalance motors to a new level.

Enclosed in gray cast-iron housings, JX unbalance motors are optimally equipped for drive tasks in demanding

applications and feature increased component stability to ensure they satisfy all requirements in long-lasting and robust processes.

JX unbalance motors from the new JVM generation are simply the right choice for your application — this was and is demonstrated every day by the thousands of drives from this series that are already in use.



The Year 2016

Dear customers,
dear employees,

After a difficult year in 2016, we anticipate a flat economic development in 2017 especially in Europe.

Even though our foreign companies consistently show positive results, we are still struggling with uncertainties in the steel and automotive industry in Germany. The exhaust gas scandal at a market-leading company in the automotive industry and the resulting restraint in investment has unavoidably led to a drop in salesinvestment.

Nevertheless, despite uncertainties, we would like to wish all our employees and esteemed customers a peaceful end to the year. We are now well prepared to meet the challenges of the year ahead. We wish both you and us a successful and healthy 2017 based on our ongoing partnership and constructive cooperation.

We are here for you!

Dr. Hans Moormann und Dr. Marcus Wirtz

Visit us next year at our booths.



SCHÜTTGUT (Dortmund)
Mai 10 - 11, 2017
Hall 7, Booth U 24



POWTECH (Nuremberg)
September 26 - 28, 2017

JOEST group – Heating Up International Cooperation

JOEST US was approached by one of the world's leading scrap aluminum companies to provide ideas on how to solve some aluminum handling challenges – Shredded aluminum is processed and melted for further processing. The inquiry started out as a request for simple feeders and screens. Once the customer realized the breadth of JOEST's equipment offerings, international manufacturing capabilities, scrap material experience and hot metal handling expertise, the opportunity quickly elevated to providing all the vibratory equipment for the line including specially-designed long vibrating conveyors (Type FSM), screens and feeders.

The customer's facility, located in the Middle East, was having significant performance issues. They became very frustrated with

the original equipment supplier's inability to fix their equipment problems. This escalated into understanding that the line itself was poorly designed, and that even getting the equipment operating properly was not going to solve all the challenges. So the customer decided to start over with developing a whole new concept for the line. In stepped JOEST.

The first challenge was recognizing the need to eliminate the sand contamination from the shredded product. Then the sand had to be removed. This was easily accomplished by JOEST using a hybrid feeder screen. By adding a screen deck to a vibrating feeder JOEST was able to eliminate a substantial amount of sand without having to add a separate, additional dedicated screen.

The more challenging issue was how to cost effectively keep the 480°C (900°F) scrap aluminum hot as it is transported a considerable distance from the label/decoration flash-off furnace to the smelting pot. The flash-off furnace burns off any paper, plastic

and/or printed labels so that they don't contaminate the end product. This furnace consumes a significant amount of energy and imparts it into the scrap. Letting the hot scrap cool as it is transported would mean additional energy would have to be added later to get the scrap to the melting temperature.

While cooling and heating materials are common applications for JOEST's foundry, steel and chemical design engineers using covered conveyors, maintaining the heat is a little bit more challenging. As the material is transported, or potentially stopped and accumulated on the conveyor, the internal temperature can rapidly rise. Because of this the machines are specially designed and provided with heat-resistant isolations.

This opportunity started out with JOEST US proposing to directly design and manufacture simple feeders and screens. It took a cooperative effort by both JOEST US and JOEST Germany to identify the root cause of the issues and solve them in a cost-effective, reliable and innovative manner. This involved successful, close cooperation on the engineering and manufacturing levels across multiple worldwide locations to make the customer extremely satisfied.



Fire in Filter System



There was a fire in a factory hall at JOEST on Friday afternoon, December 16, 2016. As a result of plastering work, the filter inserts of the exhaust system caught fire. „Thanks to the prompt and correct intervention of our employees, there was a relatively minor material damage,“ said CEO Dr. Hans Moormann. When the emergency personnel arrived, the staff had already left the production hall and nobody was injured. The fire trucks „Buldern“ and „Duelmen-Mitte“ were deployed at the scene. Once the fire had been completely extinguished, the system was subsequently inspected for safety using thermal imaging cameras.

JVT Vibrating Equipment is now JOEST South Africa

JOEST group wins appeal over name rights before Supreme Court in South Africa. JVT Vibrating Equipment is now JOEST South Africa as part of the worldwide JOEST Group.

After having been present in the South African market since the 1970's via a licensee, the JOEST group founded its own subsidiary in Pretoria in 2012 named JVT Vibrating Equipment to provide better service, the latest technologies and full solutions of vibrating equipment to South African and neighboring countries. The Supreme Court of Appeal of South Africa now confirmed that JOEST Kwatani had no rights to use the name JOEST after the license agreement ended in 2012 and all technology and support, including the important vibrating drives manufactured by JOEST had been stopped.

Dr. Hans Moormann, Chairman of the Board and majority owner of the JOEST group explains:

“We are sorry for the confusion of our customers because we are dedicated to the African market since the 70's and will further expand our local presence with local manufacturing, a service network and an extensive stock of spare parts we have.”

With more than 95 years of experience and over 750 employees we have been growing to one of the largest manufacturers of vibrating equipment in the world. JOEST manufactures the biggest and widest vibrating screens in the world and offers full solutions especially for the mining, minerals, steel, foundry and recycling industries. But also for any other industry where bulk materials are handled, JOEST has full customized and innovative solutions to offer.

Now where the confusion is over, we are looking forward to working even closer together with our customers to provide them the best technology and service they need.”

Three JOEST ASR Processing Plants for the USA

JOEST and its American partner are supplying a complete processing system in the USA for the recovery of fine metal with a grain size smaller than 12 mm.



JOEST is supplying the screening and separation technology for this patented processing system, including long-part separators, flip-flow screens, air separators and three-way separation tables. The purpose of the system is to recover fine metals and separate light from heavy metals.

The feed material consists of the fine fractions of crushed cars without the magnetic portion. These are called „ASR fines“ in the USA and „shredder heavy fraction / shredder light fraction“ in Europe. First of all, long copper cables are separated from this material using the long-part separator. Subsequently the 0–12 mm fraction is screened at approx. 4 mm in the JOEST Flip-Flow Screen TOPCILLA. Each fraction (0–4 and 4–12 mm) goes to one of the four K-Sifters with separation tables.

The K-Sifter is installed above the aspiration hood of the JOEST separation table for pre-separation of very light products. The feed material is fed to the K-Sifter via a resonance conveyor or dosing feeder. The resonance conveyor is used to distribute the product over the entire width of the sifter, and also prevents additional air from flowing into the sifter thanks to its rubber curtains.

The product mixture thus reaches the sifter zone and is separated into light and heavy material through a cross-flow and counter-flow screening process. The ultra-light material is then suctioned off by an aspiration nozzle. The heavy material enters the JOEST separating table and is again separated into light and heavy material, before the remaining organic constituents are separated off. The heavy components consist of minerals and metals — this heavy-material fraction is fed from the separating table into a RecoverMax, a patented machine that is capable of separating minerals. After the RecoverMax, the metal

fraction is further processed. For this purpose, a drum magnet is used to separate any residual magnetic components. The remaining fraction is then classified into three sizes in another screening machine.

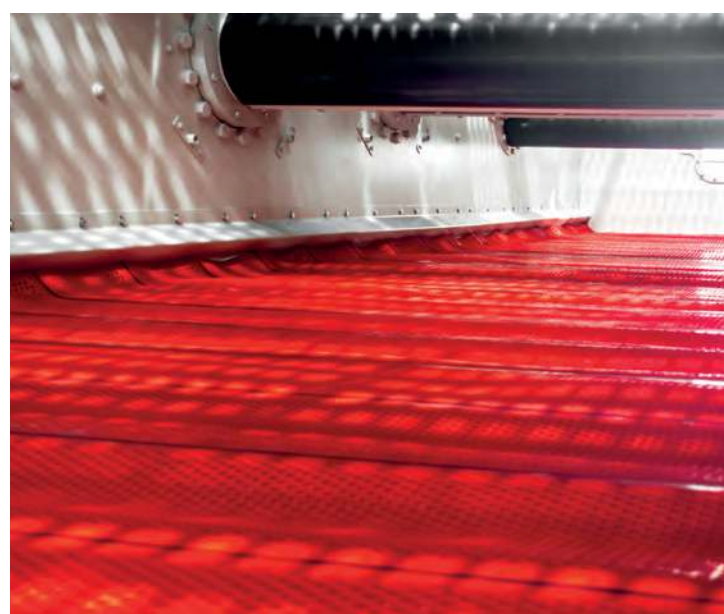
The three individual sizes are then fed to the three-way separating tables. In each individual three-way separating table, either the remaining organic constituents are removed again or the heavy metals are separated off. The metal fractions larger than 4 mm can optionally be prepared in an optical sorter. The aluminum parts and copper cables are then separated using a color-based sorting process.

When compared to standard separation tables with only one chamber, three-way separation tables offer some special features: In each of the three chambers, one material size can be processed parallel to the others. In addition, the air speeds and corresponding air flushing valves can be configured separately and individually for each chamber. Furthermore, all three chambers are vibrated by a single drive.

Due to the development of the RecoverMax, the entire system has very low energy requirements compared to systems based on other shredding technologies, such as hammer mills. In addition, the operating and investment costs are significantly lower and the final product quality significantly higher.

One of the two ASR processing plants has already been put into operation successfully in America. The second system will be delivered later this month and a third ASR system has been commissioned. Thanks to its many years of experience in the field of processing technology for ASR recycling, JOEST and its American partner have managed to achieve market leadership in the USA.





JOEST Excels in Car Recycling with the Flip-Flow Screen TOPCILLA

For a world-leading US processor of car recycling, JOEST has produced one of its biggest TOPCILLA flip-flow screens yet for classifying light materials.

During car recycling, the JOEST flip-flow screen is used after shredding to classify lightweight materials in preparation for further processing. TOPCILLA combines the advantages of two different screening principles in one machine — the proven JOEST TopSpin cascade screen on the upper deck and the unique Flip-Flow Screen OSCILLA on the lower deck.

The upper deck of the TOPCILLA combi-screen is configured as a TopSpin cascade screen with self-cleaning screening surfaces. Each individual screen opening is opened in the conveying direction, similar to a finger screen. Continuous self-cleaning is ensured by an overlap between the screen's movement and the screening surface. The upper deck performs separation at 35–40 mm and, thanks to the special cascade screen surface, blockages are virtually impossible.

The Flip-Flow Screen OSCILLA is housed in the lower deck. OSCILLA features leaf springs between the two vibrating frames. This allows very large relative vibrati-

on ranges and extreme acceleration values in excess of 50G. Fine adjustment is also achieved by varying the number of leaf springs for each area of application. For this kind of combination screen, the high flexibility achieved by adjusting the leaf springs ensures that the vibration conditions required for both screening principles can be implemented successfully.

The upper TopSpin sieve needs a large circular motion, whereas the lower flip-flow screen requires a wide relative amplitude. In order to achieve the best possible control, a twin shaft was installed. Special features of this machine are the high output rate of 40 tons per hour and the large screening surface with 2.40 x 8 m per screen deck.

The JOEST Flip-Flow Screen TOPCILLA has already been delivered and installed. Commissioning is planned for the end of the year.

ISO and SCC Recertification by DEKRA



At the beginning of October, the certification company DEKRA Certification GmbH carried out our recertification audit. The quality management system at JOEST GmbH + Co. KG was tested in accordance with DIN EN ISO 9001, and our occupational safety management system in the service and assembly areas was tested in accordance with SCC**. The audit ran smoothly and no problem areas were identified.

5S – JOEST Creates the Basis for Optimized Workmanship

A clean and tidy work environment is the basis for high-quality workmanship. This is the goal of the 5S program from Japan, which translates into English as: sort out, clean up, workplace cleanliness, make tidiness mandatory and adhere to (and improve on) all points. With the help of the consulting firm Dr. Schönheit und Partner from Cologne, Germany, JOEST is successively implementing the „Lead to Lean“ concept in all production areas and in logistics. It all started with the establishment of a dedicated 5S „learnshop“ at the company's final assembly facility, whose findings have been/are being transferred to the relevant areas of the business in order to further optimize our internal processes and workflows. Through ongoing workshops and continuous further development, inefficient activities and unnecessary transit/waiting times are now being minimized. In addition, structured processes and improved tidiness and cleanliness are enhancing the already high quality of our machines.

The International Trade Fair Year 2016



Aufbereitungstechnisches Seminar, Austria
January 28 - 29, 2016



POWTECH, Germany (Booth JOEST)
April 19 - 21, 2016



POWTECH, Germany (Booth DIETERLE)
April 19 - 21, 2016



Plastpol, Poland
Mai 17 - 20, 2016



IFAT, Germany
Mai 30 - Juni 03, 2016



RWM, England
September 13 - 15, 2016



METAL, Poland
September 20 - 22, 2016



IFAT India
September 28 -30, 2016



Ankiros, Turkey
September 29 - Oktober 01, 2016



Mining Turkey, Turkey
November 24 - 27, 2016



METAFO, Iran
November 24 - 27, 2016



POLLUTEC, France
November 29 - December 02, 2016

JOEST group Welcomes 8 New Trainees

Competent and committed employees are the prerequisite for success — this is the motto of the JOEST group. In early August, the JOEST group welcomed eight new trainees to our company. Over the coming years, they will train to become industrial clerks, technical product designers and construction mechanics. In addition to our training, we also offer the option of a dual-study program — one of our trainees is currently training as a mechatronics engineer via this route.

„We like to open up different perspectives for our young colleagues. We aim to fulfill their individual professional wishes as far as possible,“ explains CEO Dr. Hans Moormann. In the coming years, the trainees will obtain deep insights into the business, including all relevant departments and divisions of the company. In addition, the JOEST group offers numerous opportunities to enable trainees to develop further specialisms. Dr. Moormann: „We attach great importance to a broad and sound transfer of knowledge. This ensures that we will also have very good specialists in our ranks tomorrow.“

We would like to wish all trainees a pleasant start to their professional life and every success in their training at our company.



JOEST Trainee Among the Best in Muensterland

We wish to warmly congratulate our trainee **Florian Hagedorn**, who has successfully completed his apprenticeship as a **mechatronics engineer** by earning the grade „**Very good**“. This year, 660 trainees sat their final examination at the Chamber of Industry and Commerce (IHK) of North Westphalia. 56 of the candidates managed to score at least 92 out of 100 possible marks. On November 17, 2016 the top-scoring graduates were invited to the Autohaus Toennemann in Coesfeld, where IHK Vice President Heinrich-Georg Krumme and host Jochen Toennemann jointly presented the certificates and congratulated the young specialists.

Florian Hagedorn started his apprenticeship as a mechatronics engineer on August 1, 2013. In parallel, he is also studying mechanical engineering at the FH Münster (Münster technical college) in Burgsteinfurt. The apprenticeship in mechatronics consists of a combination of mechanics, electrical engineering and computer science. The training content includes: mechanical processing, assembly and disassembly work, creation of technical drawings, wiring work, PLC programming, control engineering as well as pneumatics and hydraulic circuits.

„I deliberately chose to combine my training as a mechatronics engineer with the company JOEST GmbH + Co. KG with studying mechanical engineering. The training teaches you a lot of basic knowledge in a practical context. During my studies, these subjects are addressed and given even more depth,“ explains Florian Hagedorn.

JOEST recognizes the importance of outstanding individual performance for the overall quality and progress of a company, and we would therefore like to congratulate Mr Hagedorn once again — we are proud to have such a hard-working and committed employee on board.



12 Runners - 3 Relays - 1 Team



On Sept. 11, 2016 it was time again for the Muenster Marathon. With over 8500 runners, including 5600 relay runners and participants from over 30 nations this 15th Marathon in Muenster was another record event.

For the 5th time JOEST participated with 3 relay teams. Employees from all departments participated: from different parts of the work shop, design, sales and top management. Being a worldwide company one of the JOEST-teams even had an international runner from the US-American subsidiary.

All runners were very successful and reached their personal goal and finished line. The fastest team made it in 3:32:34h. The second team was close behind with 3:38:42h just ahead of the 3rd team with 3:50:33h for the 42,195 km distance. For many, running is an individual sport but as a team the fun definitely multiplies. 3 relay teams have proven again how much you can achieve with a good team spirit and how motivated all participants represented the JOEST group with a lot of fun. Thank you for all the training miles and kilometers and the great team effort.

We are proud of you!

Social Media



Imprint

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