ROCKSTER R900 IMPACTOR

Not only construction waste, but also sandstone, limestone or granite are processed at the 7,000m² company site.

The number of demolition projects has been increasing steadily over the years, and the disposal of construction waste has become more and more expensive. This meant that the next logical step for Martin Meier Erdbau was the purchase of a mobile crusher so that demolition material could be recycled anywhere and at any time.

Martin Meier's decision to purchase exactly the crusher that he had happened to see when holidaying was made quickly. It was a Rockster R900 impact crusher, which impressed immediately due to its compact transport dimensions of 9.6m in length, 2.5m in width and 3.2m in height and a weight of only 25.5t. Demolition, earthworks and transport have been Meier's specialties since the company's founding in 1977. With a team of 16 employees and a fleet of 50 or so construction machines and trucks, the Bavarian company is extremely well positioned, although until the purchase of Rockster R900, the recycling of construction waste had been outsourced.

Expansion to contract crushing business

"By purchasing our own mobile crusher, we are now not only able to immediately recycle construction materials from our construction sites, but we can also increase our revenue from renting our mobile crushing plant," says Martin Meier. Transport with one of the company's trucks is particularly beneficial for the contract crushing business. In order to work in the natural stone processing business, processing extremely abrasive stone in a wear friendly manner, the purchase of a jaw crusher unit is also being considered using the Rockster 'Duplex' system, which sees the impact crusher being converted into a jaw crusher by exchanging the crushing units within only a few hours.

Simple handling and the optimally defined end-material

Martin Meier's son Max and Martin Loschge are the main machine operators of the crusher. "I particularly like the easy handling of the crusher. I can conveniently control the speed of the vibrating chute in the feed hopper, main discharge belt as well as the rotor and motor speed. All this done from the excavator via radio remote control," says Max. "The final material is nice and coarse grained and therefore very stable and compact when installed." The company mainly uses the recycled material as a substructure for large halls, private houses or in road construction. Thanks to Rockster's hydrostatic drive and the double apron design, a very precisely defined final product size can be generated, even without an additional screening system. The two impact aprons are set separately, which means that in the event of an overload situation in the crushing chamber, the upper impact apron opens, but the lower one remains in the set gap position and therefore hardly any oversized material is produced.

Rockster R1000S increases Sedlmaier's flexibility and efficiency

In early 2020, Anton Sedlmaier GmbH, from Starnberg in Bavaria, decided to purchase a 30t impact crusher, first using it on a large scale project in the centre of Tutzing, where a six story building was razed to the ground.

With a team of 30 people and 50 years of history, Anton Sedlmaier GmbH is a well-known demolition and earthwork contractor in the Starnberg and Munich areas. Hence the Ehret & Klein planning office turned to the specialist company for a project in the centre of Tutzing which involved demolition and preparation of the last Boehringer building in the centre of Tutzing.

Until February of this year, Sedlmaier rented mobile crushers to process construction waste. The purchase of the Rockster R1000S with hydrostatic drive and an inlet opening of 960mm x 720mm was an important step forward. "Our machine operators are enthusiastic about the new mobile crusher, they praise the easy handling and the good accessibility for maintenance work. We are now much more flexible and efficient in processing demolition debris and natural stone," says Anton Sedlmaier.

The demolition project is a test of toughness for the crusher as Sedlmaier's site manager Markus Falschlunger explains: "The challenge at this construction site is on one hand the strong reinforcement of the concrete - a lot of iron was used in the construction of the building - on the other hand, we are right in the centre of Tutzing where we have to keep the noise level as low as possible." The standard and height adjustable magnetic separator of the R1000S crusher has proved to be a valuable aid in the removal of the iron parts, and, if necessary, the fine, earthy material can be ejected with the hydraulically foldable side belt.

"We mainly produce 0/50 mm final product, which is used for the substructure. Because the proportion of coarse and fine material is optimal, the recycled concrete is well suited for road construction since it forms a solid foundation," says Falschlunger. Machine operator Tobias Poschinger particularly praises the fully hydraulic crushing gap adjustment of the R1000S: "I can easily set the crushing gap on the display, it is quick and uncomplicated. I also think it's great that almost all the functions of the crusher can be controlled via remote control."

Rockster's closed circuit impactor

The R1000S closed circuit impact crusher with a screening system and air blower has been crushing at the Bauhof Deutschlandsberg since the beginning of 2020. Here it provides valuable services in the production of high quality recycled building materials.

Bauhof Deutschlandsberg GmbH has been providing the perfect material cycle for 24 years. With a nine person team and strong partner network, the company's specialisms are building demolition, container services and the recycling of all types of construction debris. On its 6.6h company premises, processed materials are immediately returned to the material cycle on the construction sites. The processing capacity on the Bauhof site is 80,000t per year, which corresponds to a saved landfill volume of 55,000m². With a recycling rate of 98% landfilling is avoided as much as possible, with company founder Konrad Pistolnig senior stating: "The management of construction waste is of growing interest for both the construction industry and waste management. Residual building materials that do not end up in a landfill but are returned to the economic cycle as high quality RC building materials are an ecological necessity."

New Rockster crusher

At the end of 2019, Bauhof Deutschlandsberg GmbH management decided to replace its rented crushing plant with a new closed circuit R1000S impact crusher from Rockster. The impactor has been at the centre of the company's recycling since January of this year. "With our R1000S we have already produced 16,000t of concrete 0/80mm; 8,000t of asphalt 0/18mm; 600t of wall ballast 0/16mm and 500t of construction debris 0/20mm. We are extremely satisfied with the quality of the end product. The mixture of coarser and fine grain is just right for further use in the concrete mixing plant or on construction sites," says Pistolnig.

Thanks to the compactness of the Rockster crusher, the contract crushing business has also been expanded. "The use of recycled materials is becoming more and more demanding and also brings some advantages to the construction company. You can save money, conserve natural resources and still use high quality building materials," explains Pistolnig.