

MILES AHEAD...

Number 8 · January 2017



■■■ Xcentric Ripper XR30
on Saba Island, for the expansion
of the runway of the smallest
commercial airport in the world



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UPCOMING EVENTS



We will attend SMOPYC,
International Exhibition of Machinery for
Public Works, Mining and Construction,
in Zaragoza, Spain,
next month of April, from 25 to 29



HALL 6
STREET E-F,
STAND NUMBER 11-22



Xcentric Screener

Presenting our new product, the Xcentric Screener, the High Performance Screener Bucket

Last November we presented our new product, the **Xcentric Screener**, a high performance rotating trommel type screening bucket.

In its manufacturing, several variants that improve the traditional screening technology have been combined: a polygonal trommel, transmission by time belt and the Powerboost system.

The 12-sided polygonal trommel shakes the material inside more efficiently.

Its longer length compared to other screeners offers a larger

screening area, thus reducing the working time in each cycle. This greater length of trommel is possible thanks to the large diameter of the main roller bearing. The hexagonal profile of the screening mesh, is the best choice between maximum yield and more homogeneous screening.

Its second characteristic is the transmission between the main hydraulic motor and the trommel, which is done by a time belt. This belt is able to transmit a great torque, besides being free of maintenance and/or periodic tensioning.

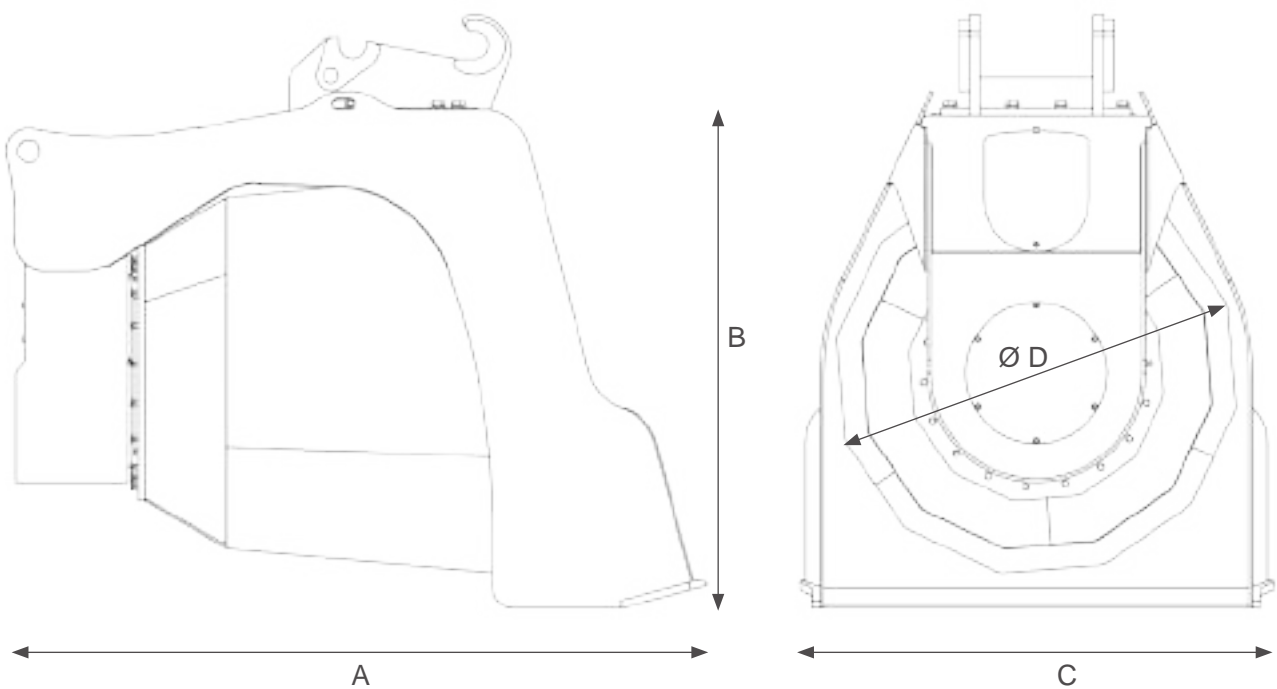
Finally, the most remarkable advantage is the Powerboost system, which applies vibration to the trommel while turning, greatly increasing production. It is a high frequency, low amplitude vibration, that does not affect the mechanical part of the Xcentric Screener, or the excavator.

As always, what we try with these innovations is to achieve greater profitability and production.

To know more about this and other products visit our website: www.xcentricripper.com

Technical Specifications - **XCENTRIC** **SCREENER**

TECHNICAL SPECIFICATIONS		XS20	XS40
Excavator size	Ton.	18 a 25	24 a 38
Weight (without top plate)	kg	1.550	2.100
Operating pressure	MPa	20	25
Operating Flow	L/min	160 - 180	180 - 200
Ø trommel	mm	1.300	1.600
Trommel length	mm	1.230	1.425



	A	B	C	Ø D
XS20	2.500	1.700	1.610	1.300
XS40	2.800	2.000	1.890	1.600

Manufacturing process

Through the following images, we show the manufacturing process of Xcentric products



➤ CUTTING AND BENDING

- ❑ This is the workshop where the raw material is received for the manufacturing of the parts that do not come from casting.

The first step is the steel plate cutting (HARDOX 400), which is done through plasma cutting machines.

The BENDING, CURVING and/or PRE-MACHINING of the pieces that need it, is also done in this area.



Plasma cutting machine, Teknos 8000, from Tecoi.

Parts already cut for their subsequent processes of welding and machining.



Bending of a piece made of Hardox 400.



► WELDING

- Once the pieces are cut, bent or pre machined if necessary, they are taken to the WELDING workshop where they are assembled to be joined together by means of welding.

In the case of the XR housings, up to the XR50 model, the welding is done by the ABB IRB 2600 robot, which uses the ARCO SPRAY welding (a basic welding bead supported by two protective beads).



ABB IRB 2600 welding robot.



Hand welding of a bucket.



► MACHINING

- After the welding process is done, the pieces go to the MACHINING workshop, being done in this order and not in reverse, to avoid possible deformations of the mechanized zone by the welding heat.

The machining of all the parts that make up our implements is made entirely in our workshops, both the HARDOX 400 parts cut in our installations, and the parts made of cast steel.



XR Pivot arm in process of machining.



XC Jaw in process of machining.



Raw material prepared for machining in the lathes workshop.



Grinding a pin after tempering process.

- ▣ The pieces arriving from the foundry, go directly to the corresponding machining workshops, where they will be machined to give the piece the necessary finishing for its perfect adjustment when assembling in the machine.

In addition to machining, some parts are subjected to a hardening processes in order to provide additional hardness to the areas most sensitive to wear (contact with bearings). This process requires a subsequent grinding of the treated areas, to give them the precision finish they need.



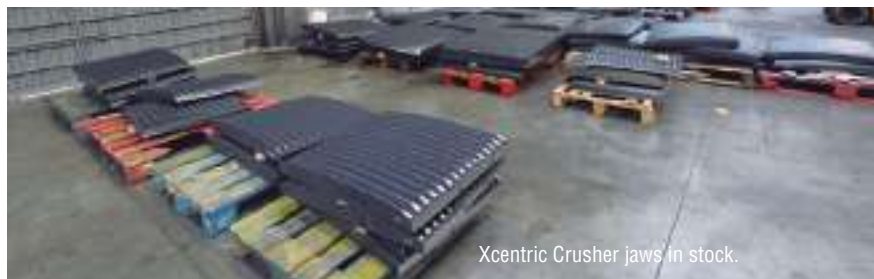
Piece in process of machining



XR Pivot arm in process of machining.



- ▣ Once the machining process is completed, the pieces become part of the STOCK, which remains powered to minimize delivery times. From here they move to the assembly section as soon as a new order arrives.





► PAINTING, ASSEMBLING AND LOADING

- Finally, we have the building where the PAINTING of the pieces and the final ASSEMBLY of the machines is carried out.

It is also here where the trucks and containers arrive to LOAD them for its worldwide distribution.

Pieces in stock prepared for painting.



Mounting an Xcentric Crusher.



Mounting an Xcentric Ripper.



Charging an XR120 for transport.

Juan Antonio Fernández



Name: Juan Antonio Fernández

Age: 52 years old

Job: Head of machining workshop

Years with us: 10

In this issue of 'Miles Ahead' we talk with Juan Antonio Fernández, the manager of the machining workshop, who will share with us his vision of Xcentric Ripper, with the experience of 10 years working in this Grado Cero Group.

■ **What kind of work do you develop in Xcentric Ripper?**

Within the entire production process, I am responsible for the machining. I take care of the coordination from the reception of the raw material to the complete machining of the pieces, leaving them

“About Xcentric Ripper I would emphasize its innovative character, which somehow is what got us out of the crisis.”

ready for the next step, which is the assembly. The parts are machined and verified to be finally taken to the Xcentric assembly workshop.

■ **What would you highlight of Xcentric Ripper as a company?**

About Xcentric Ripper I

would emphasize, above all, its continuously innovative character, which somehow is what got us out of the crisis. If Javier Aracama had not decided to create new machines we would probably not be where we are. We are always searching to improve and create new products that meet our customers needs.

■ **What do you like most about your work here?**

What I like the most is the satisfaction you feel when after the whole process, all the pieces arrive in time and



in optimum conditions to its destination, the assembly workshop. It is also very rewarding when a new prototype is created and we see how well it performs, and then gradually improve it.

■ **Can you tell us an anecdote of the time you have been working here?**

I think the best thing was when we set up the prototype of the first Ripper, which looked like a “Transformer”! We see now

how it has evolved, how it has been changing in both exterior and interior design.

“ The best was when we assembled the first Ripper prototype, which looked like a “Transformer”! ”

■ **Finally, if you did not work in Xcentric Ripper, what would you work in or what would you have liked to work with?**

Surely I would have continued in the mechanics world, because it is my professional training and also what I like. I am also interested in electronics, but I opted for mechanics, because at that time machines, cars, etc., were not composed of so many electronic mechanisms and I saw better future opportunities in mechanics.



XR30 on Saba island (Caribbean), for the expansion of the runway of the smallest commercial airport in the world.

Dutch Caribbean Islands and Suriname

Arjan van Oorschot is in charge of distributing the Xcentric products in this part of the Caribbean, with great expectations for the future

This time, we spoke with our distributor in the Dutch Caribbean Islands and in Suriname, **Arjan van Oorschot**, who will tell us his experience and trajectory as a partner of **Xcentric Ripper Benelux BV** in opening the market in this area.

Arjan van Oorschot: My activities in the Caribbean started in 2009, when a Dutch-based construction company offered me an engineering position at their limestone quarry and concrete production facility in Curaçao. I've always had a great interest in

the mining- and heavy equipment industry, so I embraced the opportunity and moved to Curaçao.

In 2013, I started a business-development company: **Impro Caribbean BV**. With a well established network throughout

the Caribbean Islands, I facilitated projects for various companies that wanted to improve or expand into the Caribbean market.

It was during this period that I got introduced to the Xcentric-Ripper by my father, who manages a quartz-sand quarry in the Netherlands and bought an XR20 through Xcentric Ripper Benelux BV. The machine performed very well. He also told me that Xcentric Ripper Benelux BV had delivered a machine to the Boskalis Bauxite project in Suriname. At that time I visited Suriname frequently and

I felt that the Xcentric Ripper would be able to change the course of excavation methods significantly.

because of my contacts in the Suriname mining industry I knew that the Ripper could be of great interest to them.

Above all, I felt that the Xcentric Ripper would be able to change the course of excavation methods significantly. The machine and its possibilities excited me and I immediately saw opportunities for the Caribbean Islands: they are mostly formed by volcanic rock, and the use of explosives is generally not allowed or limited.

After meeting with Henk Saes from Xcentric Ripper Benelux BV and paying a visit to the factory to meet Javier Aracama



Arjan van Oorschot, with Raul Vieira, first customer in Curaçao.

personally, we decided to partner up for the Dutch Caribbean Islands and Suriname. From this day forward we built a strong and reliable partnership, with technical support and a strategically located warehouse to serve the region. Meanwhile a diversified customer base has been established from Dutch Caribbean islands like Aruba, Curaçao and Saba, towards

the Jungle in Suriname. Our customers operate their Rippers in mining and infrastructure/construction projects. Different companies, different applications and different types of machines, but one thing in common: increased productivity and reliability.

One of my highlights was the commissioning of an XR50 about



XR20 at hospital construction site on Curaçao Island



XR50 in the jungle/Amazon of Suriname



XR40 on Aruba island



XR30 at the airport of Saba island

4 hours into the jungle/Amazon of Suriname. We had to travel by small plane and boat and stayed in the jungle for about a week. Another successful project was the commissioning of an XR30 on Saba Island, for the expansion of the runway of the smallest commercial airport in the world. By using the ripper, our customer realized the project well within the calculated timeframe.

My expectations for the future are very positive. We are on top of developments in our area, with several big projects about to be realized. Building solid and

Building solid and personal relationships with our existing and potential customers is important as well as rewarding.

personal relationships with our existing and potential customers is important as well as rewarding. The fact that we are able to offer an extended product range with the Xcentric Crusher and the new Xcentric Screener gives us the ability to provide flexible solutions for different applications throughout the region.

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End-users' opinion

Some customers in the Caribbean give us their opinion about the Xcentric Ripper.

Interview with: Vieira Equipment NV
Country: Curaçao

When did you first hear about the Xcentric Ripper?

I didn't know the Xcentric Ripper existed, until Arjan introduced the machine to us in late 2013. In 2014 we decided to buy an XR40 for our Hitachi ZX350 which has been installed in march 2014.

What kind of projects have been realized with the Xcentric Ripper so far?

We are a heavy equipment company with different projects around the island, mainly in infrastructure and construction. We also operate a basalt-quarry to provide our concrete business with aggregates. Since we bought the Xcentric Ripper, we have used the machine at our quarry but also excavated several water-wells on request. We managed to realize these projects in record time by using the Ripper.



In your opinion, what are the biggest advantages of the Xcentric Ripper?

First of all the very high production rate in fractured material. Also the fact that there is little maintenance needed, and that the machine is able to work under water without any modifications.

Interview with Ecotech Aruba NV
Country: Aruba

When did you start working with the Xcentric Ripper, and in what kind of material is it used?

We are using the XR40 in our granite-sandstone quarry in Aruba. At this moment the Ripper has been operational for about 7 months.

What methods did you use prior to the Xcentric Ripper?

Before the Xcentric Ripper, we have used a fixed ripper tooth as well as a hydraulic hammer.

Does the Xcentric Ripper have a positive impact on the efficiency of your operation?

Yes it does, the Ripper delivers a high productivity and provides our operation with flexibility.

In your opinion, what are the biggest advantages of the Xcentric Ripper?

The minimum level of maintenance and minimum vibrations into our excavator, together with low noise levels and a high production rate make the Xcentric Ripper a great asset.



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