

# A global partner with local support

Whether you need complete drive solutions or upgrades of existing equipment, you can always count on our assistance and support. Our goal is to become your partner, which means fully understanding your business and giving you full access to our expertise and specialist knowledge. All to bring you the most optimal solutions and the highest possible availability.



Taking responsibility for the whole solution includes taking responsibility for even the smallest component parts. In our case, it means original parts and tailored support. Bosch Rexroth is your guarantee of quality and a one-stop solution, where you get everything you need from a single supplier.

Our worldwide organization provides engineering, installation and service, regardless of geographical location. For you, that means quick and well-coordinated global support for quotations, installation and on-site service or assistance when needed.

#### Easy to upgrade

When you need to increase production, you can easily make additions and adjustments to our modularly designed drive systems –with minimal disruption and optimal results.

We have extensive experience in the sugar industry, where our solutions have been used for 40 years now. This long experience and our motivation to improve and develop our products and services, has given us an exceptional depth of knowledge and understanding of how to configure each function to get the best out of your sugar mill.



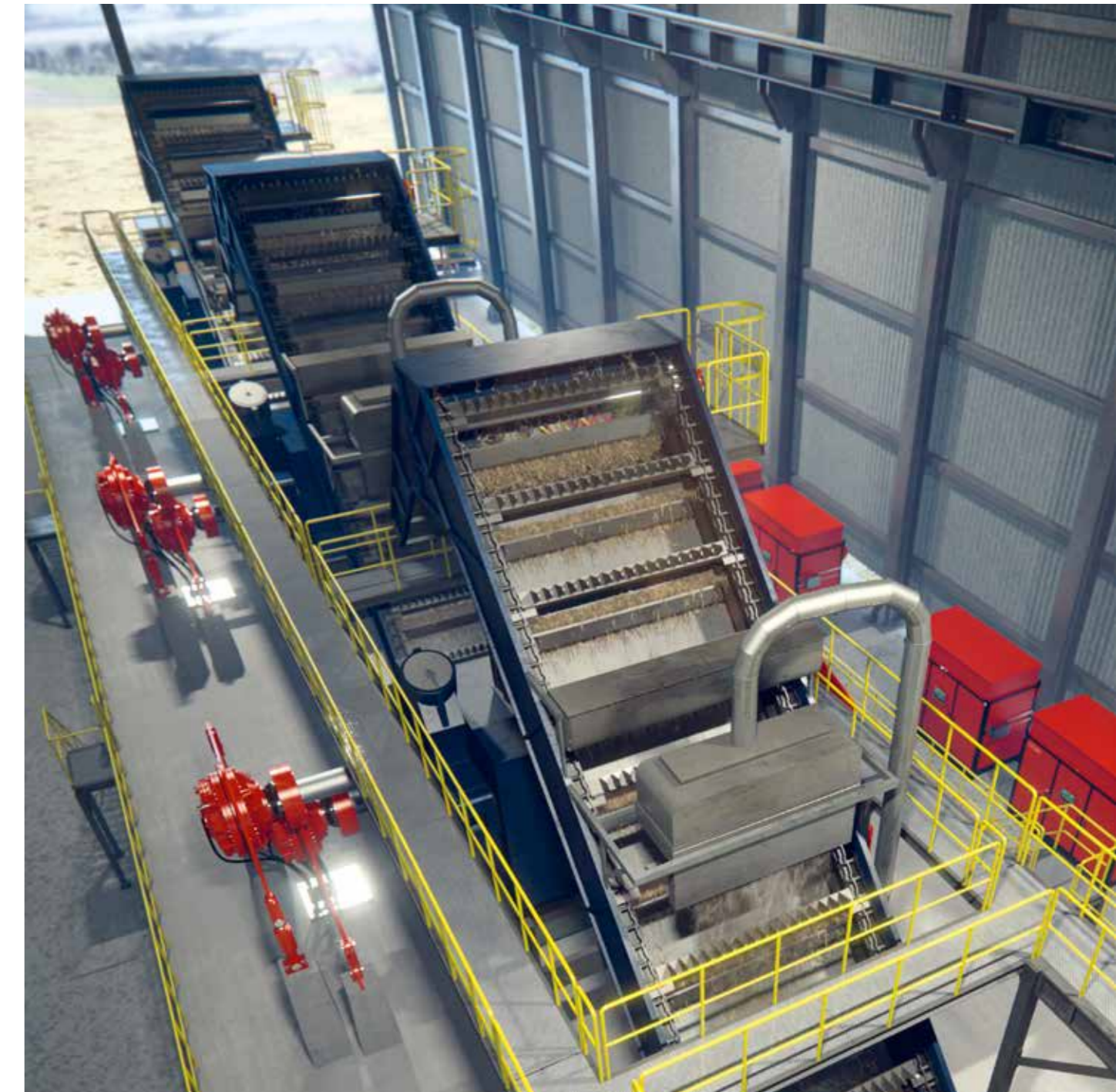
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# Turnkey solutions for sugar mills



# Built to maximize production – in every step

With a short harvest season, raw material that can't be stored and continuous production, there's literally no time to lose. For a sugar mill, reliable performance is a must.

We know that the varying fiber content of the cane determines how fast you can run your mills without the risk of overflowing. That's why we've developed a flexible system solution that can be adapted to the day-to-day status of the cane.

With Hägglunds direct-driven hydraulic motors from Bosch Rexroth, you can streamline your process and optimize both cane extraction and power consumption.

The highly modular drive system offers great possibilities for customization and step-by-step upgrades.

#### Application knowledge

Whatever the size of your mill and whatever capacity you want, whether it's a matter of upgrading or new construction, we can deliver the optimal solution. Our drive systems are built to maximize production – in every step.



Assist Drive

#### Assist Drives

An Assist Drive, adds power to the existing system and creates greater capacity in the electricity production. With Hägglunds direct drives you can easily re-power your mill.

An Assist Drive can be the first step toward increasing your production and milling performance. And when you're ready to take the next, it can easily be upgraded to an independent roll drive.

"This increases efficiency and uptime in the mill, while reducing energy consumption and costs. It is also good to avoid oil spills and to have a tidy, neat solution that can be cleaned with water. The investment will, without doubt, help us achieve ISO certification."

*Sergio Martinez, Ingenio Tamazula, Mexico*



Independent Roll Drive

#### Independent Roll Drives

The Independent Roll Drive is our most advanced drive for cane crushing mills. It gives you maximum flexibility, since each roll can be given its own torque and rotation speed.

Utilizing the excellent torque control of the Hägglunds drives, you can easily adjust the speed to match different cane types and product qualities. Here, you really can optimize your production according to the capacity and the load at hand – as well as minimizing power consumption.

Our integrated control system allows you to have extremely fast pressure control which detects if the torque is too high and automatically reduces the speed. This minimizes unwanted peaks in the system and reduces stresses in the machine.

# 5

big benefits  
with hydraulic drive systems

#### Controllability

Direct drives with low speed and high torque gives maximum controllability. You can work at full torque from stand-still, without time restrictions. The pressure control system detects if the torque is too high and automatically reduces the speed.

#### Reliability

The operating principle of our hydraulic direct drives is proven to be good practice for milling plants. The low moment of inertia gives unbeatably smooth driving with high reliability. No matter how many times you have to start, stop or reverse, the drive system simply keeps on going.

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CBM is a good upgrade for Marathon. It's a smaller and lighter motor with fewer moving parts. It also has a splined shaft instead of using a compression coupling, which makes it easy to install and remove. It's a smart solution.

*Daryl Stockham, Wilmar Sugar, Australia.*

#### New possibilities – continuously

Our new range of Hägglunds CBM hydraulic motors offer the highest torque-to-weight ratio in the world. With an increased number of torque steps, it gives you excellent adaptation of the rotation speed which helps optimizing the cane extraction. We continuously improve our products, solutions and designs, helping you to maximize your production today and tomorrow.



#### Maximum uptime

With few components, no gearbox and a generous rated service life our motors only need a minimum of maintenance. We provide a global network of knowledge and service to ensure the lasting performance of your drives.

#### Compact

Mounted directly on the driven shaft, the compact motor takes up minimal space, leaving more room for access and maintenance of the machine. The Drive Unit is separate and can be placed wherever convenient.

#### Process efficiency

With the accurate and instant control of speed, flow and capacity that you get with our drive solutions, you can fully maximize the efficiency and versatility of your process.