

PULP & PAPER

**Target  
unbroken  
uptime**

HÄGGLUNDS 

# Your mill profits from consistency

**There's a complex world behind a sheet of paper. But it's all tied together by the quest for uptime. In over 50 years of supplying Hägglunds hydraulic drive solutions to the pulp and paper industry, uptime has been our constant focus. We're as driven by it as you are – driven to the core.**

## RELIABLE IN THE EXTREME

At a pulp or paper mill, flow is everything. From feeding in the raw material to cooking, washing and bleaching it on the way through, there's never a moment to lose. Unplanned downtime is simply unforgivable, which is why you need unbeatable reliability from your drive systems. Hägglunds solutions deliver non-stop, both day after day and year after year.

## MADE TO START AND SUSTAIN

Hägglunds hydraulic drives have a robust, enclosed design that's ideal for harsh mill environments. But their strength on the outside is nothing to what's on the inside. With their high starting torque, our drives get digesters, feeders, drum displacer washers and kilns moving easily. And they can do it again and again, supplying full torque for as long as you need it.

## CONTINUITY BUILT ON CONTROL

Starting equipment is one thing, but keeping it moving takes true finesse. Gearless Hägglunds solutions offer an infinite number of speeds within their wide range, and they share loads automatically when multiple drives are used. Through their flawless control over speed and torque, you can react quickly to change, so that your mill's processes stay up and running.

## LITTLE GOES A LONG WAY

What makes Hägglunds solutions even more remarkable is their minimal footprint. Light and compact, with no foundations or gearbox, our drives make for easy installation and smaller, simpler machines. No gears and no gaps mean smooth operation as well, undisturbed by load changes or torque pulsations. ●



## We go the distance too

If anything matches the lean effectiveness of Hägglunds drives, it's our team's efficiency in backing you up. Our global organization means you're always close to well-trained Hägglunds service engineers, who understand what uptime means to your business. Parts for our modular drives are standard and delivered from stock, so fast replacements are never an issue. Should

a problem occur, we'll be at your side quickly – and we'll stay until it's resolved. What's more, we can be with you long into the future. Drawing on decades of application experience, we can safeguard operations and help you meet new challenges, for example through online condition monitoring or new innovations in our growing Hägglunds portfolio.

# Driving applications in pulp and paper

## HIGH-PRESSURE FEEDERS

High-pressure feeders are under pressure themselves, especially in continuous processes. It takes high torque to get a slurry moving, and load changes are never far behind. Hägglunds solutions provide all the starting torque you could wish for, while their gearless, gapless design keeps load changes problem-free. With the help of a double torque arm, even axial movement is no issue.

### TOP FEATURES

- High starting torque
- Unaffected by load changes
- Shaft mounted



## RAW MATERIAL INTAKES

Whether it's logs or recycled paper they handle, your mill's intakes are where productivity begins. But they face an uphill battle, having to stop and start frequently in loaded condition. Hägglunds drives endure the strain, delivering maximum torque as often as needed – despite their minimal size and weight. Sharing the load without any effort, they keep your mill supplied at the perfect pace.

### TOP FEATURES

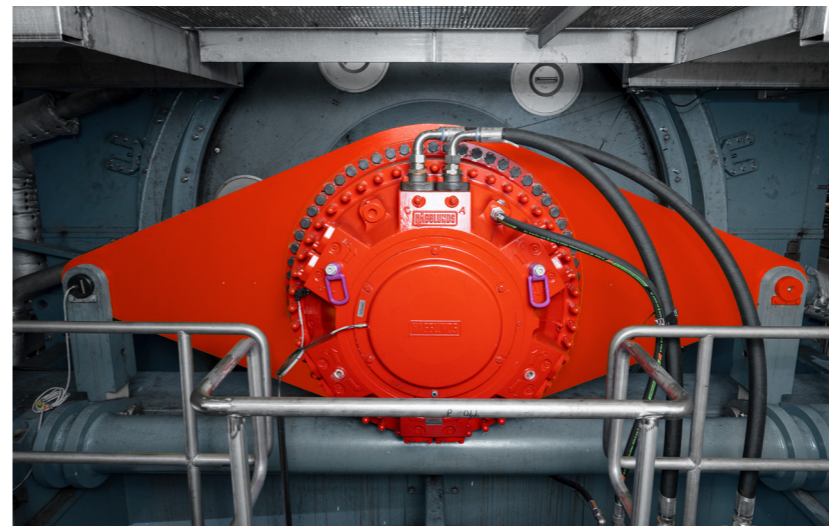
- High starting torque
- Frequent starts and stops
- 100% load sharing

## PULPERS

Freeing the fiber from pulp sheets or paper-based waste can be a punishing business. But it's the material you want to break down – not the pulper itself. Though they may be lightweight, Hägglunds drives are heavy-duty, which means they stand up to all the turbulence and tearing. With their gearless design, they also withstand the constant load changes, having no gaps to that add to the stress.

### TOP FEATURES

- Unaffected by load changes
- Full torque throughout speed range
- Low weight



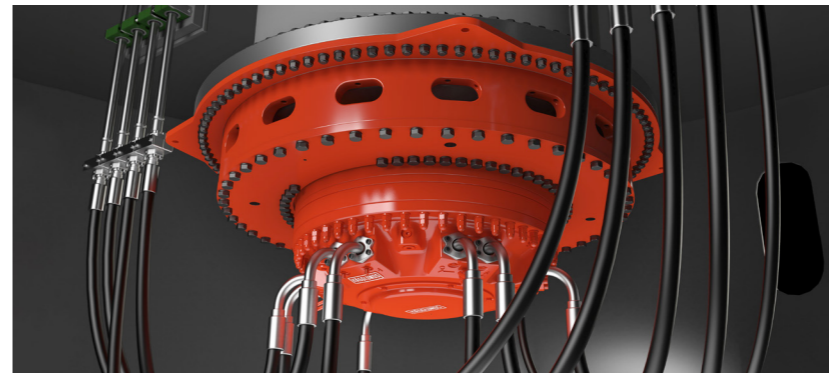
## DRUM DISPLACER WASHERS

Drum displacer washers are gentle on pulp fibers, but they're far from gentle on washer drive systems. Apart from the high torque needed to start them, their angular design creates torque pulsations as they rotate. Fortunately, Hägglunds drives take the challenges in stride. Gear-

less and gapless, our drives are unaffected by the relentless pulse, yet their high torque defies their size and weight.

### TOP FEATURES

- Full torque throughout speed range
- Excellent controllability
- Withstand torque pulsations



## IMPREGNATION BINS AND DIGESTERS

Impregnation bins, digesters and their outlet devices are the key to pulp quality. Hägglunds drives add almost no bulk or weight, yet they get wood chips and liquor moving with the highest starting torque available. If the mixture gets stuck, that torque can be applied with a change in direction to get things going again. Oper-

ated at nominal torque, when impregnation and cooking are running smoothly, the drives deliver the very long service life mills demand.

### TOP FEATURES

- High starting torque
- Long service life
- No foundations

## LIME MUD KILNS

Steady rotation is vital for your lime mud kiln, just as it is for the quality of your lime. Calcining demands even heat exposure, while any overexposure could damage and deform your equipment. With a Hägglunds drive, you have ample torque to get the drum turning, plus the high reliability to keep it in motion. And it's easy to create a small standby unit for emergencies, just in case the main power grid should fail.

### TOP FEATURES

- High starting torque
- Easy to implement emergency drive
- Low weight



## TWIN ROLL PRESSES

Twin roll presses offer effective washing. Through 100% load sharing, compact Hägglunds drives ensure smooth, reliable operation that prolongs both drive and press service life. Once the pulp output has the correct dryness, the drives maintain it automatically by matching the roll speed to the varying pulp flow. Since full torque is available across a wide speed range, the rolls respond quickly to any change.

### TOP FEATURES

- Full torque throughout speed range
- Excellent controllability
- Long service life

## CUSTOMER VOICE

## Rapid refurbishment of line for cellulose washer thanks to good cooperation and strong commitment

**Domsjö Fabriker experienced two dramatic weeks when a gearbox for a drum displacement washer for cellulose in the factory's bleaching plant broke down. Thanks to a great team effort, production could resume quicker than feared.**

"The alternative from Bosch Rexroth was the one that let us resume production most quickly. We've had a great cooperation with them! We were at a total standstill for about two weeks. If we had chosen a different solution, the stoppage would have been considerably longer," says Björn Vedin, CEO Domsjö Fabriker.

From the initial contact with Bosch Rexroth regarding a new motor, it took approximately one and a half weeks until start-up. In a project requiring the modification of existing equipment, that was fast work. ●



## SERVICE



## Partners in performance

**For decades, Hägglunds systems and solutions have delivered reliability in pulp and paper – and so have our service experts. Our service team is on your side 24/7, wherever you happen to be.**

Whether assisting you on site, supporting you remotely or making repairs and adjustments in our workshops, we keep your existing Hägglunds systems running strong. But we can also modernize or upgrade your drives, putting the latest advances and application know-how to work for your productivity. Our service offices and workshops are available throughout the world, and you'll always find us at [www.hagglunds.com](http://www.hagglunds.com)



**HÄGGLUNDS**  
**Bosch Rexroth AB**  
SE-895 80 Mellansel  
tel: +46 (0)660 870 00  
[www.hagglunds.com](http://www.hagglunds.com)

R999002183 (2022-09)  
© Bosch Rexroth AG 2022  
Subject to revision

Hägglands is a brand of Rexroth, a leading global supplier of drive and control technologies. Hägglands solutions enrich a comprehensive Rexroth portfolio.

