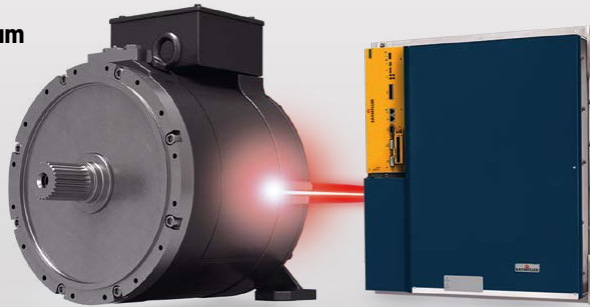


## PowRex drive package: Low operating costs – high machine availability

### **DST2 high-torque motors: Maximum torque from a standing start**

The low inertia of the high-torque motors, combined with the powerful b maXX servo drive, enables faster free running and restarting of the machine shaft, even with the hardest materials. Thanks to its motor characteristics, the DST2 high-torque motor enables high peak and rated torques across the entire speed range. The maximum torque from zero speed also allows restarting when the machine is full, for example. The highly dynamic drive system significantly increases productivity.



### **b maXX servo drives: Dynamic and intelligent**

The biggest advantage is energy efficiency. Thanks to the b maXX servo drive, the high-torque motor is very easy to regulate and control and only draws energy when it is needed in the process.

# SHREDDERS

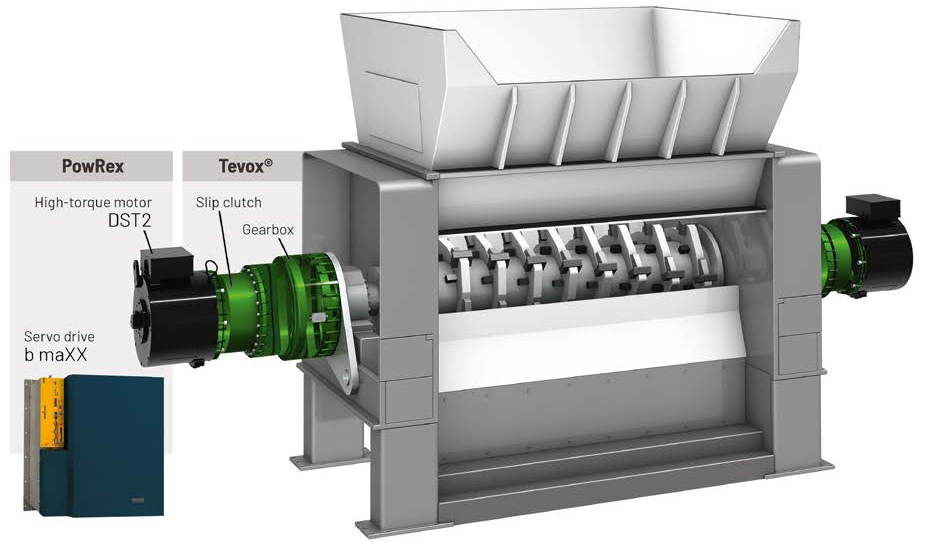
PowRex – the all-electric high-torque drive solution from Baumüller  
Engineering | Hardware | Software

The PowRex drive package, consisting of DST2 high-torque motors and b maXX 5500 servo drives, forms the basis for our shredder drive solution.

**BE IN MOTION**

**Perfect connection of the drive to the rotor shaft – system solution comprising motor, gearbox and slip clutch**

The powerful PowRex drive system from Baumüller, combined with the robust Tevox® – a gearbox/slip-clutch combination from Nidec DESCH – forms a perfectly coordinated complete system consisting of motor, servo drive, gearbox, and slip clutch.



**The advantages of a fully electric high-torque drive system**

- |   |   |   |   |
|---|---|---|---|
| <p> <b>POWERFUL</b></p> <ul style="list-style-type: none"> <li>✓ Torque curve matches the shredding process</li> <li>✓ Flexibility in torque and speed through the use of gearboxes</li> <li>✓ Peak torque is also available when stationary</li> </ul> | <p> <b>HIGH ENERGY EFFICIENCY</b></p> <ul style="list-style-type: none"> <li>✓ High system efficiency due to efficient individual components</li> <li>✓ System components with less impact on efficiency</li> </ul> | <p> <b>DYNAMICS</b></p> <ul style="list-style-type: none"> <li>✓ Dynamic control of the drive system by powerful servo controllers</li> <li>✓ Low inertia of torque motors enables faster acceleration</li> </ul> | <p> <b>LOW MAINTENANCE COST</b></p> <ul style="list-style-type: none"> <li>✓ No maintenance required for belts and pulleys</li> <li>✓ No maintenance of a hydraulic system</li> </ul>   |
| <p> <b>ENVIRONMENTAL COMPATIBILITY</b></p> <ul style="list-style-type: none"> <li>✓ No hydraulic oil required</li> <li>✓ Lower CO<sub>2</sub> emissions</li> <li>✓ Low-noise drive system</li> </ul>  | <p> <b>LOW RUNNING COSTS</b></p> <ul style="list-style-type: none"> <li>✓ Reduced energy costs due to high energy efficiency</li> <li>✓ Low maintenance costs</li> <li>✓ High machine availability</li> </ul>       | <p> <b>PROTECTION</b></p> <ul style="list-style-type: none"> <li>✓ Using a wet slip clutch protects the drive train and tools from damage in the event of a blockage</li> </ul>                                   | <p> <b>EASY INTEGRATION INTO EXISTING SYSTEMS</b></p> <ul style="list-style-type: none"> <li>✓ Three standard options for connecting to the machine shaft</li> <li>✓ Customization</li> <li>✓ Standardized interface between engine and transmission</li> </ul> |

**Customers worldwide trust Baumüller**



**Additional information**

<p> Fully electric high-torque drive solution for shredders</p>		<p> Motors</p>			<p> DST2 135-400</p>		
<p> Driving Innovation Together   Baumüller x WEIMA</p>		<p> Servo drives</p>			<p> b maXX 6000</p>		



**Interested in our system?**

Scan the QR code and contact us now.  
<https://www.baumueller.com/en/contact>

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