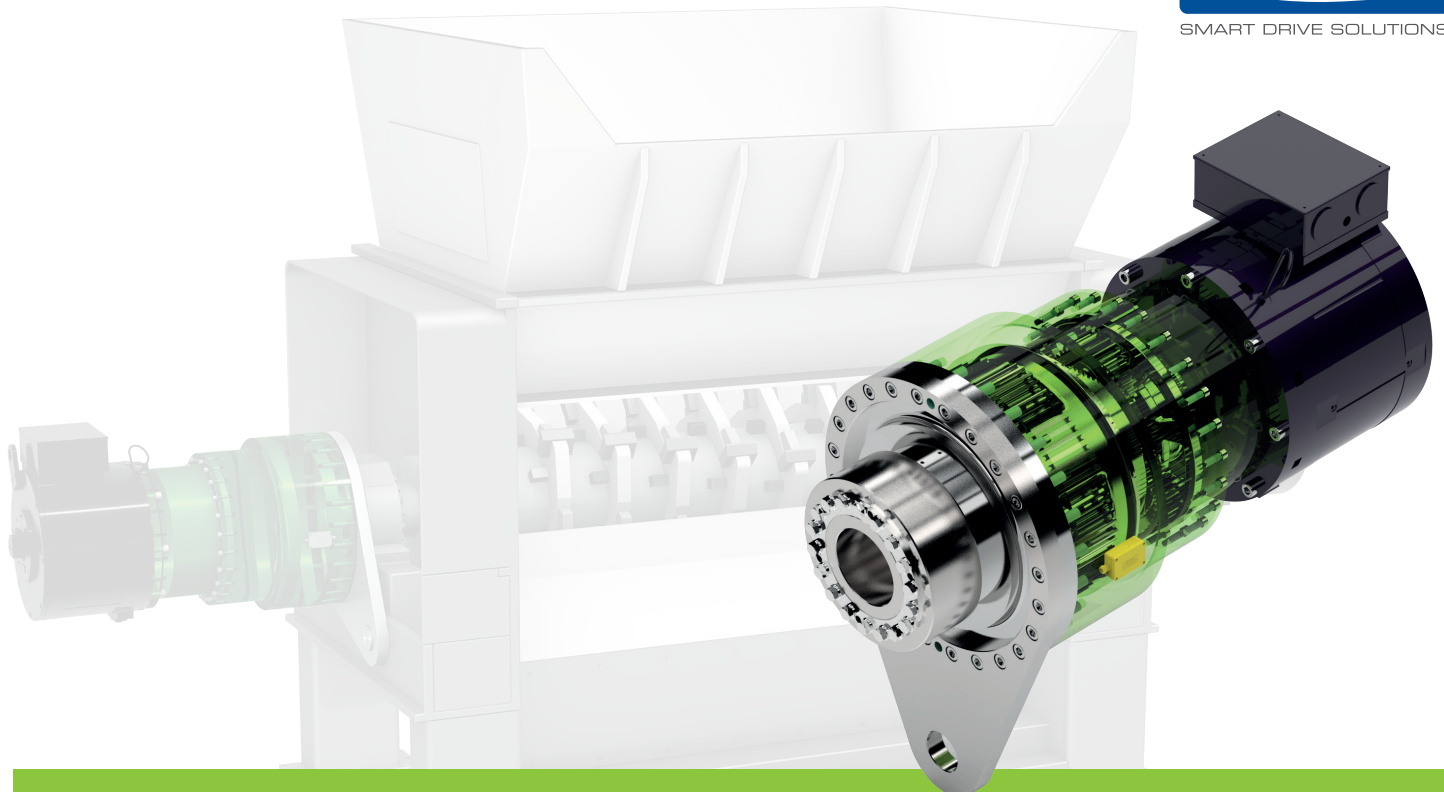


# DESCH Tevox® Direct drive



## THE DRIVE. OF A NEW AGE.

### Description

The new energy-efficient drive solution compared to electric hydraulic drive concepts for mobile and stationary systems with a special focus on recycling applications.

- System solution consisting of gearbox + clutch + electric motor
- Modular design with various gear ratios and mounting and connection options
- Wide output torque range from 10kNm up to 400kNm
- Single-stage or multi-stage planetary gearbox
- Energy-efficient drive solution / electric drive train
- Designed for applications with high alternating loads
- Protection of the drive train by integrated overload clutch
- Continuous torque measurement - DESCHtorque
- Direct replacement of electro-hydraulic drive train

### Technical details

- **1- or multi-stage planetary gearboxes**  
Output torque  $T = 10 - 400 \text{ kNm}$   
Output speed  $n = 3 - 200 \text{ rpm}$
- **Wear-resistant torque limiting clutch**  
For protection against shock torques  
by use of defined slipping torques
- **Connections**  
Shrink disc connection in combination with torque arm alternatively  
flange connection combined with spline or shamrock shaft

### Field of Application

- **Stationary recycling systems**  
Pre-shredders  
Post-shredders  
Rotary shears
- **Mobile shredders**  
Wood shredders  
Biomass crushers
- **Other applications**  
Road milling machines  
Surface Miners  
Crushers

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# DESCH Tevox® Direct drive



## Technical questionnaire to select DESCH Tevox® for recycling solutions

Gearbox output	
Nominal torque [Nm]	
Nominal speed [rpm]	
Max. speed [rpm]	
Torque at max. speed [Nm]	
Max. torque [Nm]	
Speed at max. torque [rpm]	
Max. peak torque at blockage [Nm]	
Required bearing lifetime [h]	

Load spectrum / duty cycle (if available)	
Load [Nm]	Time slice [h or %]

Connection to shredder shaft and machine frame	
Shrink disc and torque arm	<input type="checkbox"/>
Shamrock connection and flange	<input type="checkbox"/>
Spline shaft and flange	<input type="checkbox"/>
other	<input type="checkbox"/>
Description:	

Sensors	
DESCHtorque (torque measurement)	<input type="checkbox"/>
Oil temperature	<input type="checkbox"/>
Oil level	<input type="checkbox"/>

Based on your data, we will configure the optimum Tevox drive® and the required motor for you.

Oil type	
Castrol Alpha SP 150 P	<input type="checkbox"/>
other	<input type="checkbox"/>
Specification:	



**CIRCULAR ECONOMY**



Recycle - Make - Use  
Reuse - Repair

THE DRIVE. **OF A NEW AGE.**