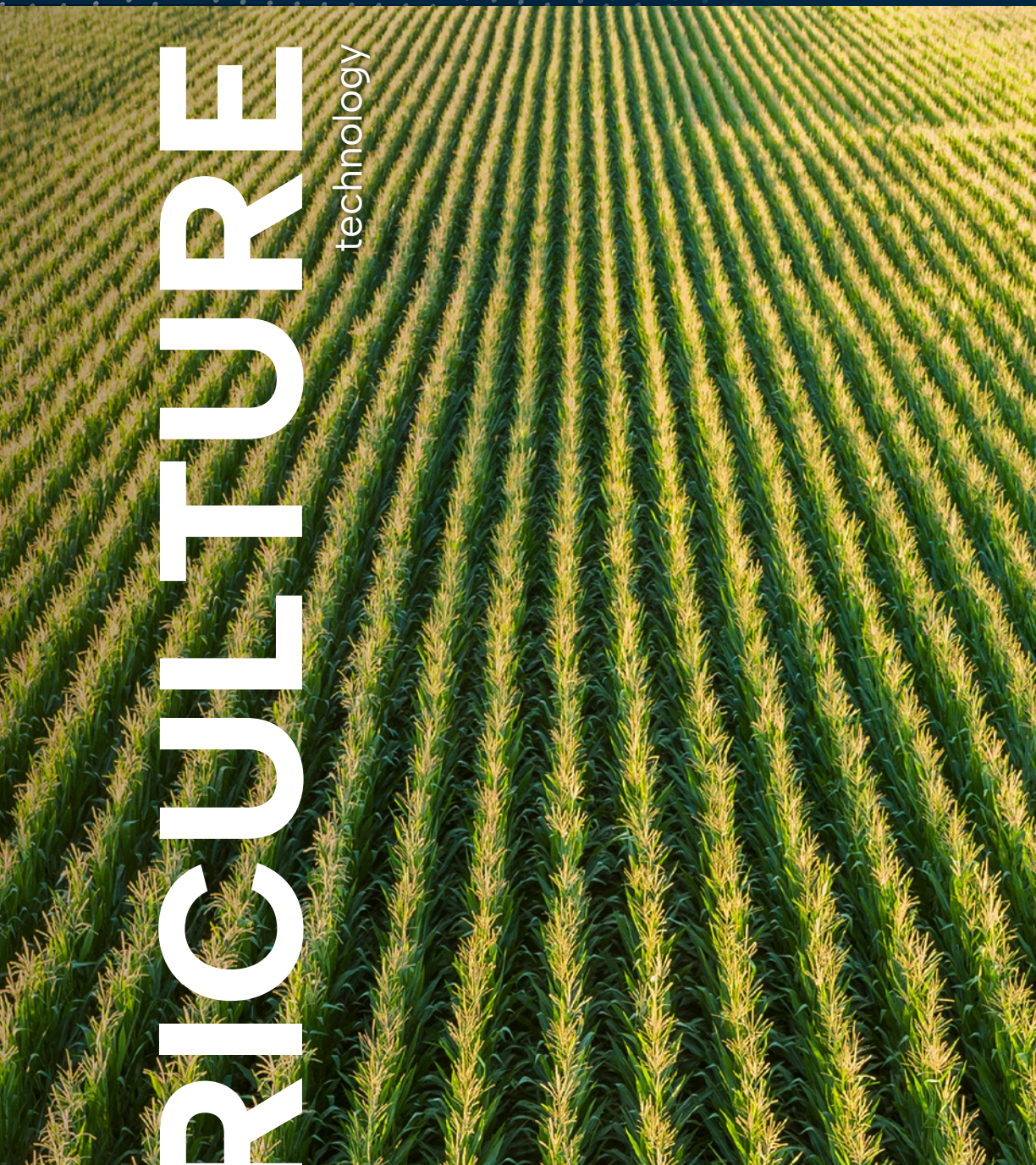


AGRICULTURE

technology



Driving agriculture
forward

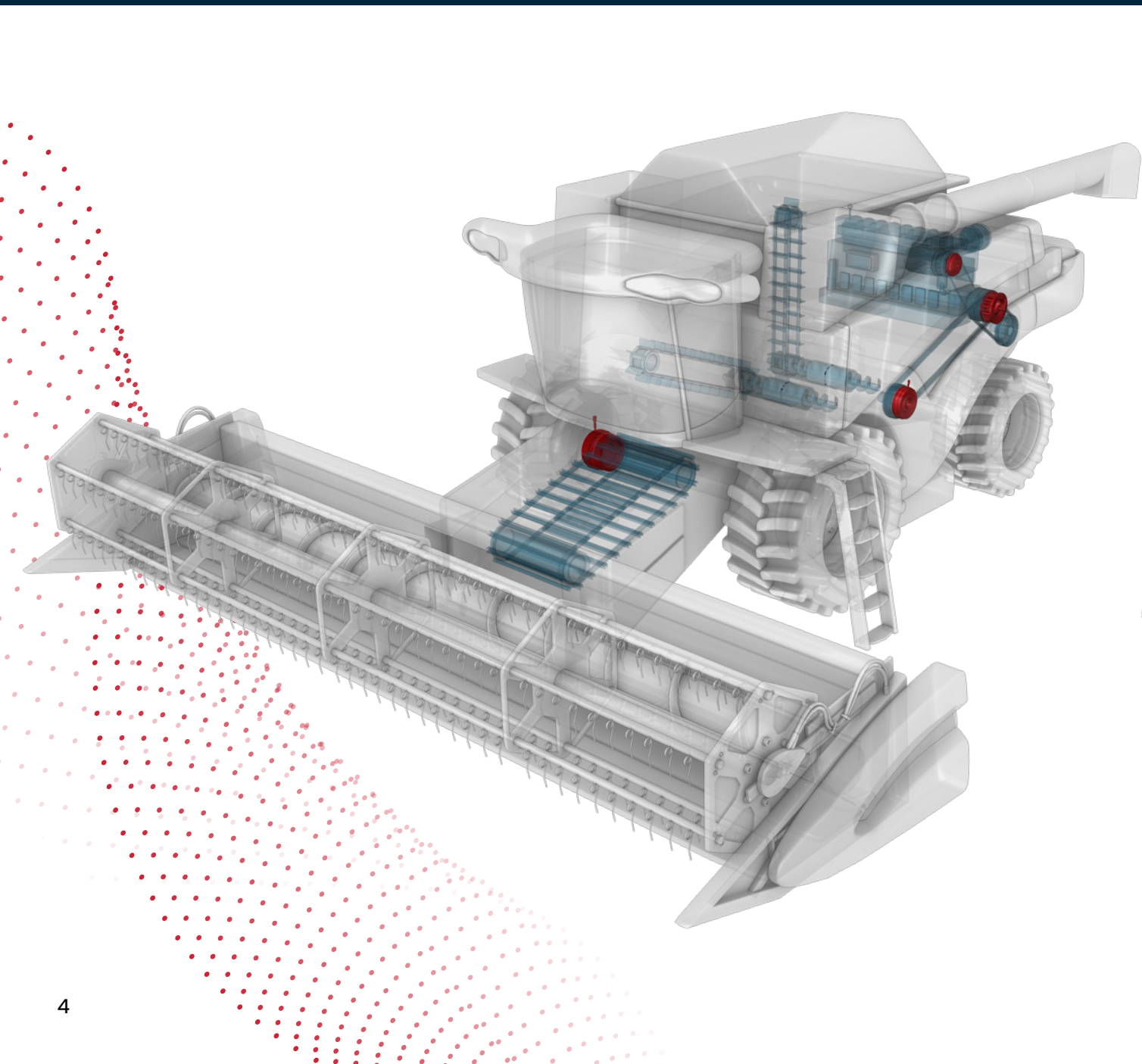
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Agriculture technology

Ortlinghaus has a clear focus on the demands of customers in agricultural technology. We offer an increasing variety of modular clutch solutions that can be adapted to different requirements easily. Due to our extensive specialist knowledge, years of experience and ongoing technical innovations, we are always a qualified partner for our customers.



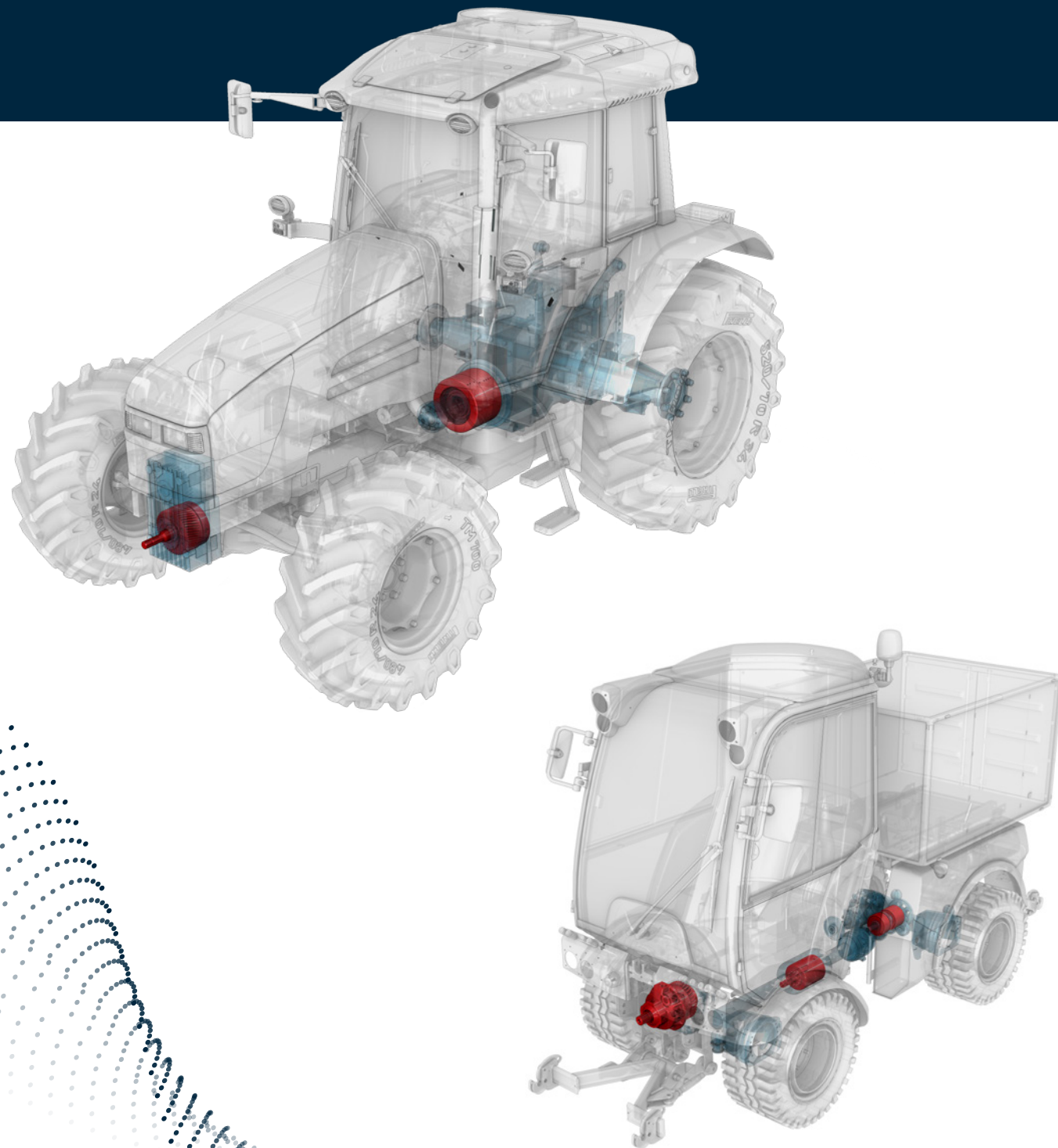
Self-propelled harvesting vehicles

Combine harvesters and forage harvesters. Ortlinghaus clutches are used in various applications in self-propelled harvesting vehicles, such as belt drives, inclined conveyors, compressors and threshing systems.



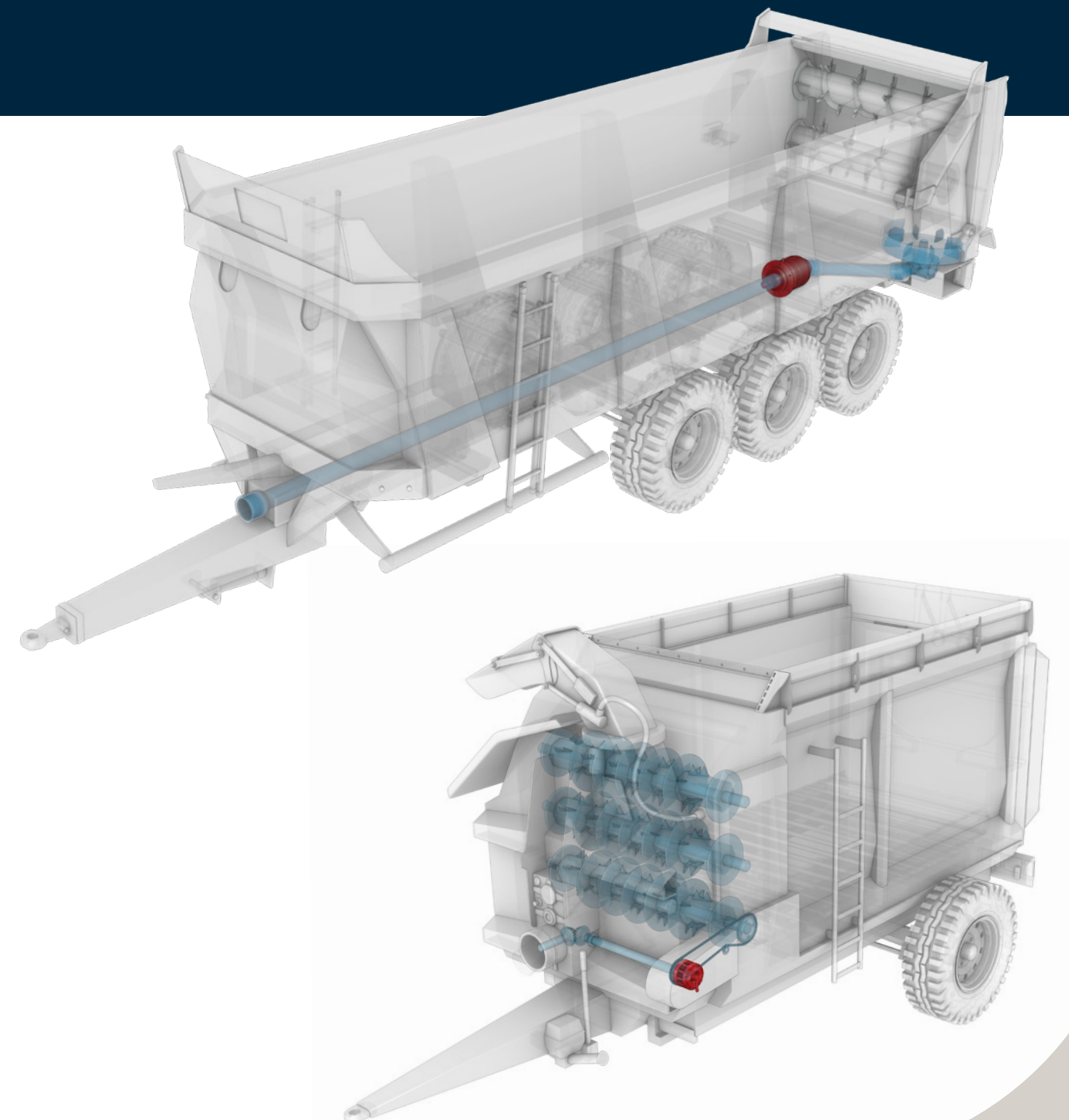
Tractors and municipals

Tractors are used as pulling machines and provide power for attached machines. Ortlinghaus clutches are used here in PTO units or CVT gearboxes.



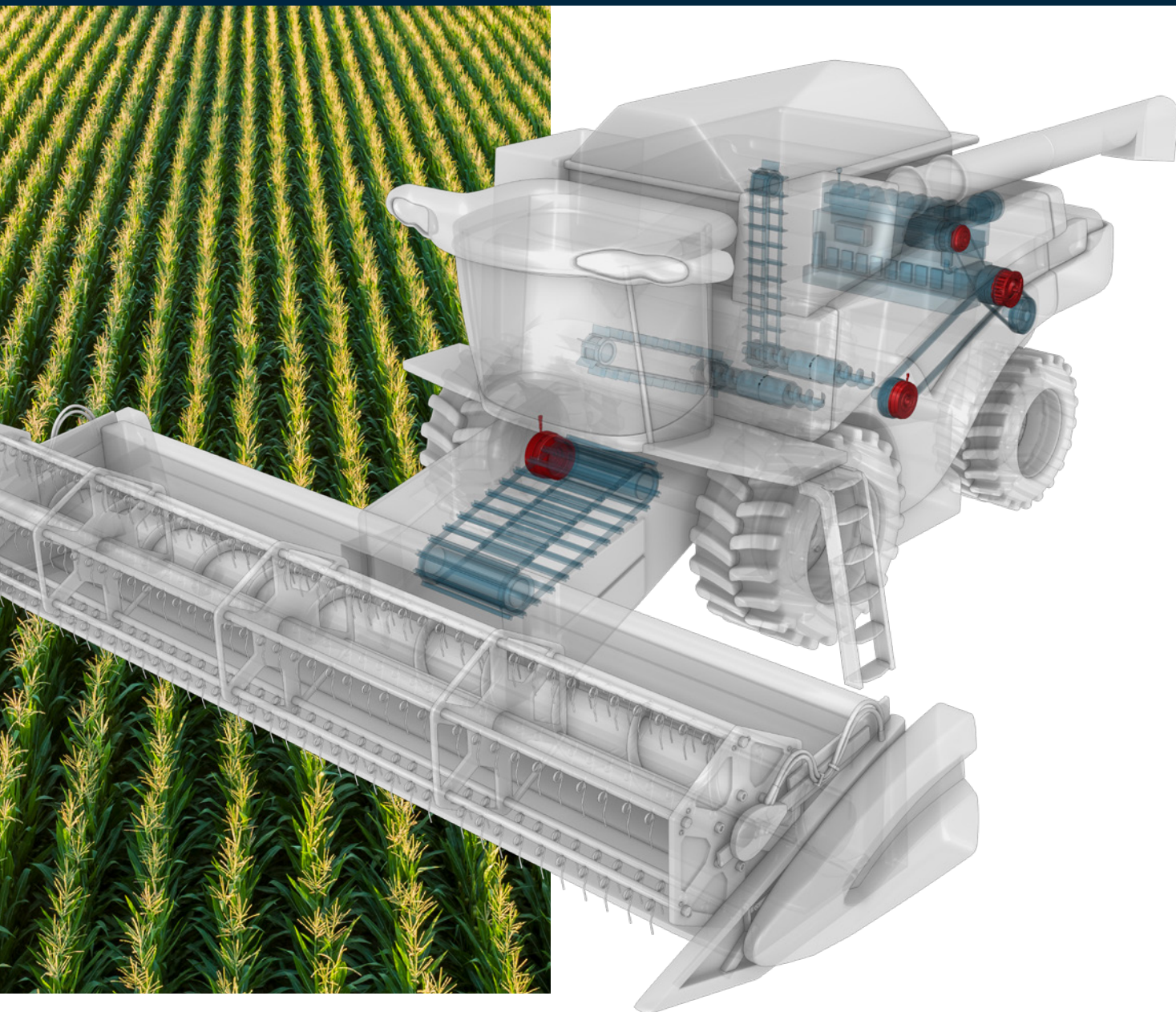
Trailers

Pulling vehicles provide power to attached machines. Individual drives are engaged via additional clutches in the drivetrain on attached machines. For this purpose Ortlinghaus clutches are also available with radial oil inlets.



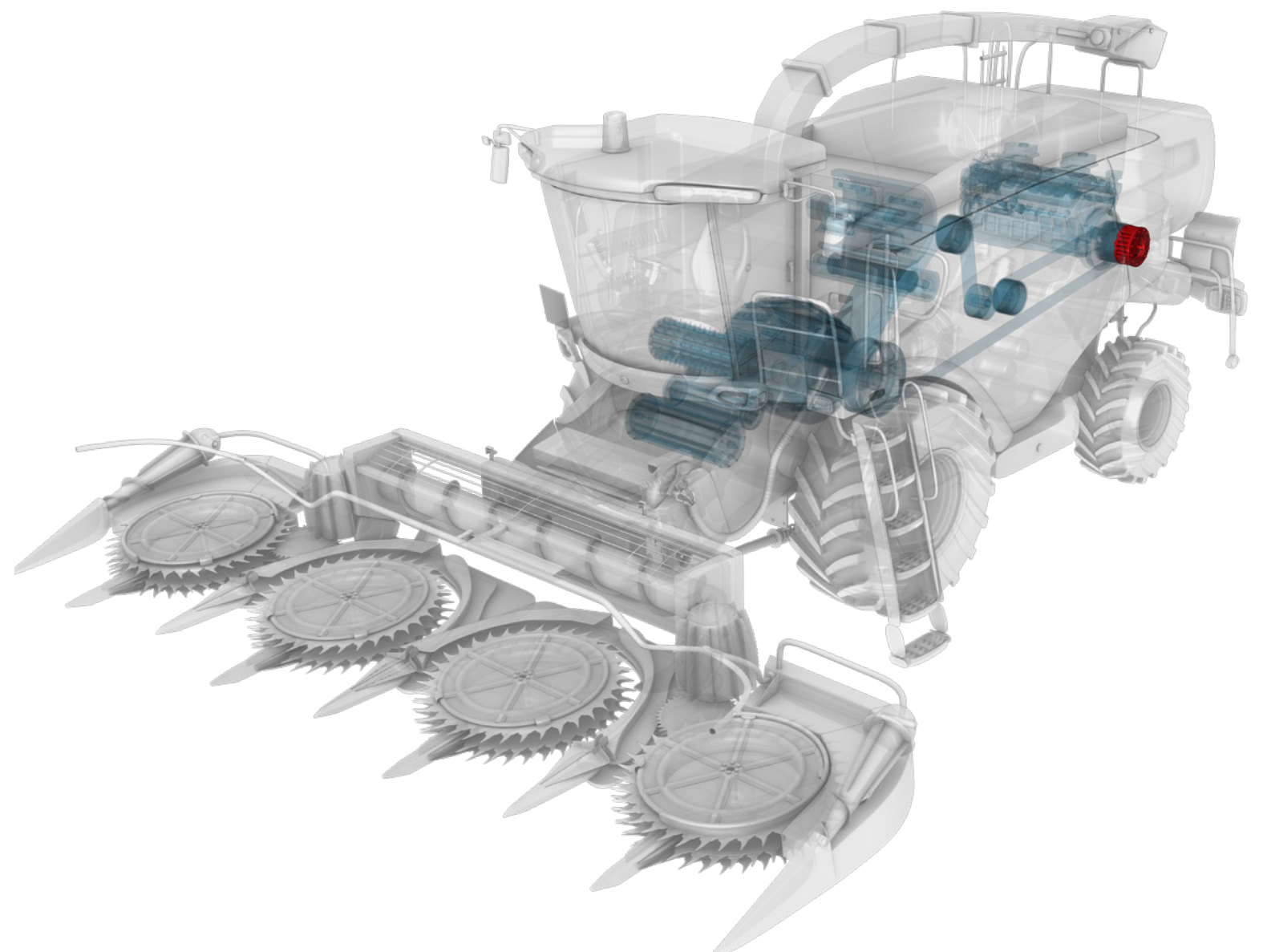
Agriculture solutions: Self-propelled harvesting vehicles

Self-propelled harvesters. These harvesters have a variety of drive systems that perform different functions, for which Ortlinghaus supplies customer-specific solutions. For these applications, Ortlinghaus offers hydraulically actuated shifting clutches in wet- or dry-running execution made for main and auxiliary drives.



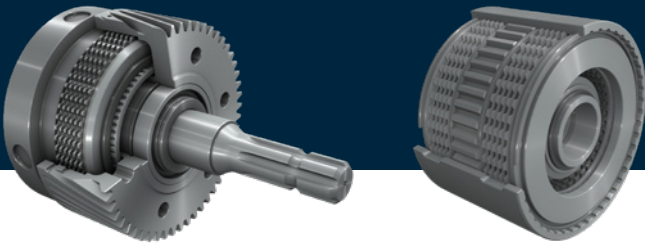
Series 250

Hydraulic dry-running
multi-plate clutch



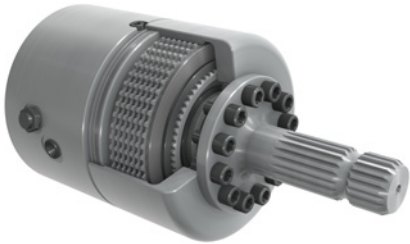
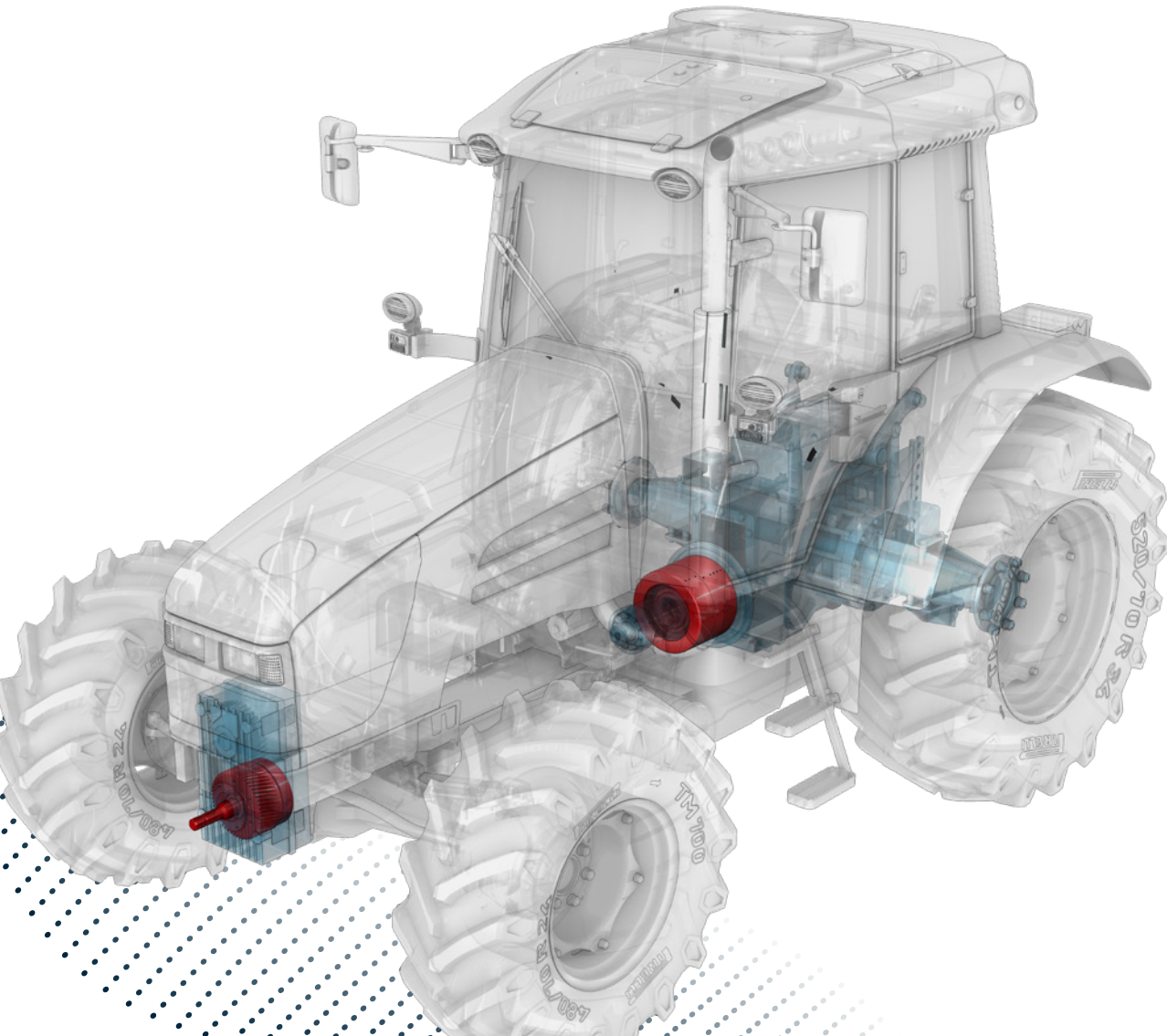
Tractors and municipal vehicles

Main areas of focus for Ortlinghaus are wet-running multi-plate clutches for power take-off (PTO) units and multi-plate clutches for main gearboxes. PTO units are used with front or rear power output. Suitable clutch solutions are available for power shift transmissions and continuously variable transmissions (CVT). They provide customer-specific solutions thanks to the modular clutch design.



Series 260
Hydraulic wet-running
PTO clutch

Series 245
Hydraulic wet-running
double clutch



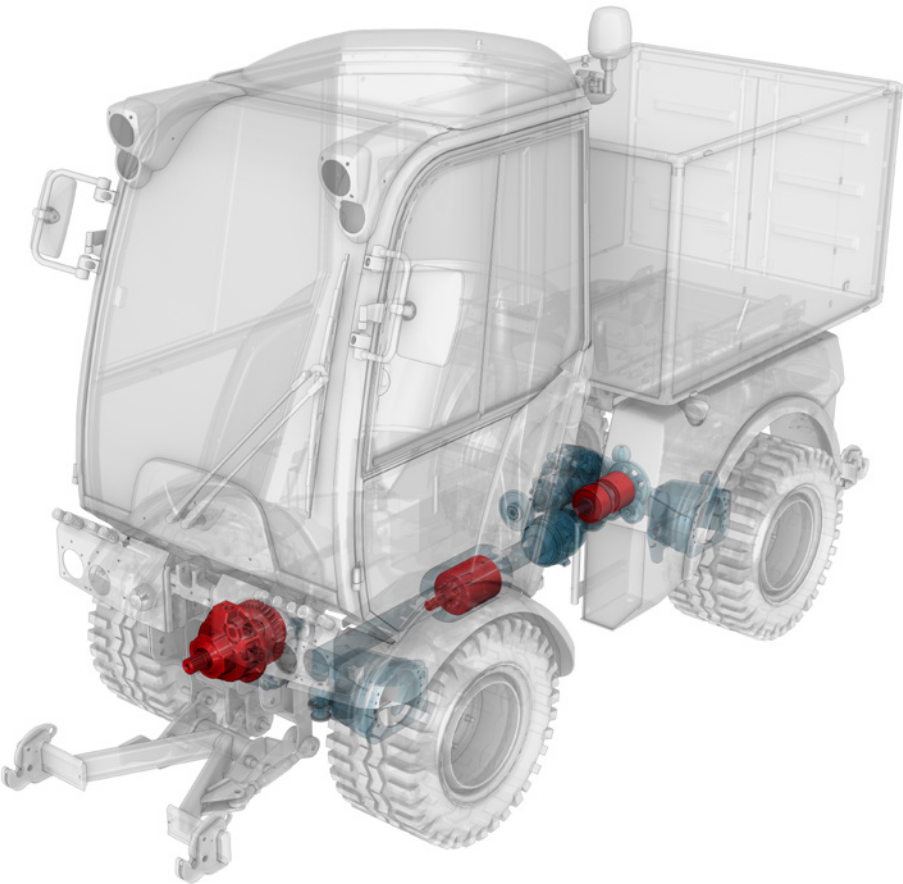
Series 230
Dry-running multi-plate
clutch with hydraulic
external actuation

Series 240
Hydraulic wet-running
single clutch



Series 260
Hydraulic wet-running
PTO clutch

Series 245
Hydraulic wet-running
double clutch



Trailers

Auxiliary drives on trailers can be switched with the hydraulically actuated dry-running clutches series 230 or 250 depending on the requirements and installation. This broad range provides a solution for all types of safety circuit applications, but also allows the engagement of additional drives.



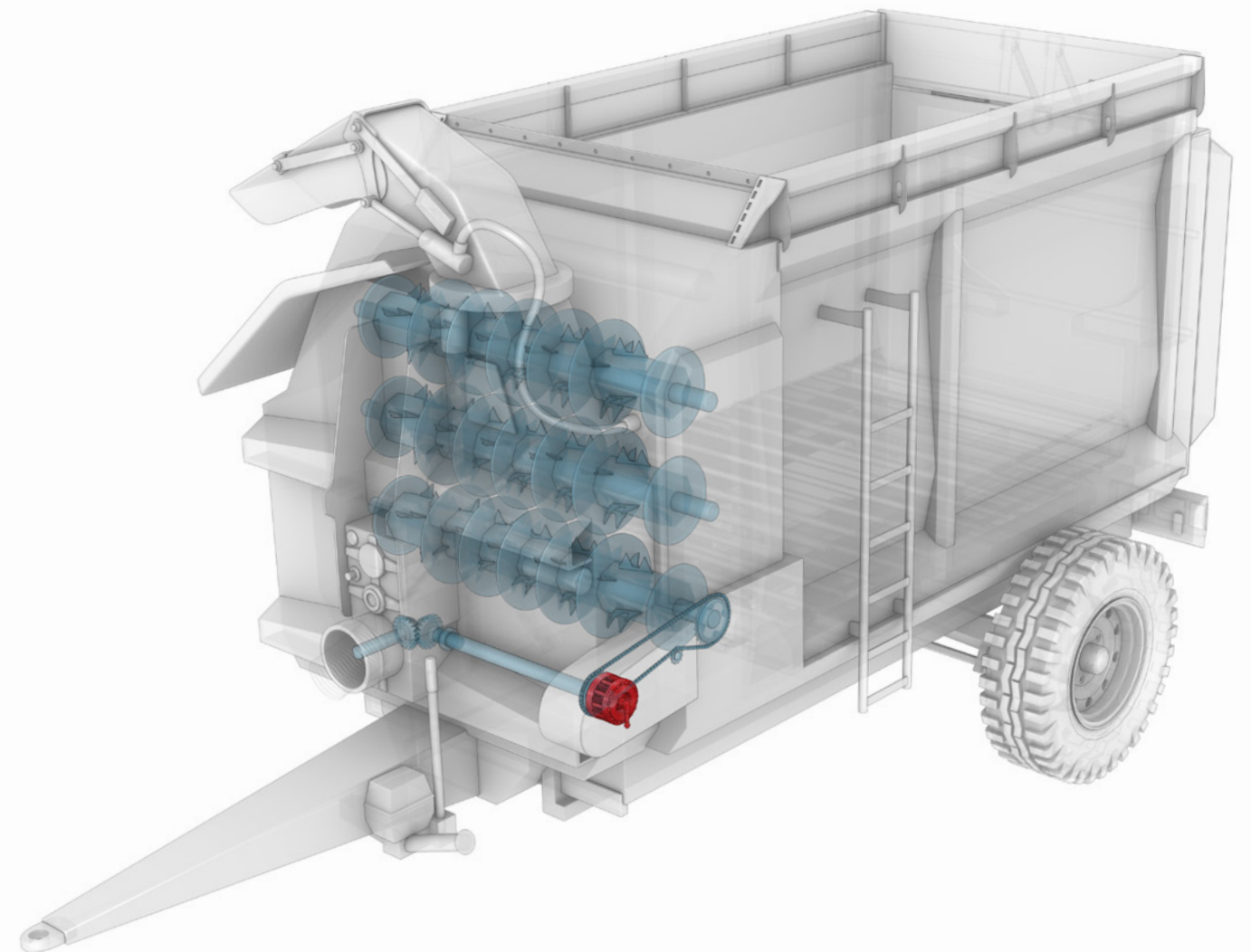
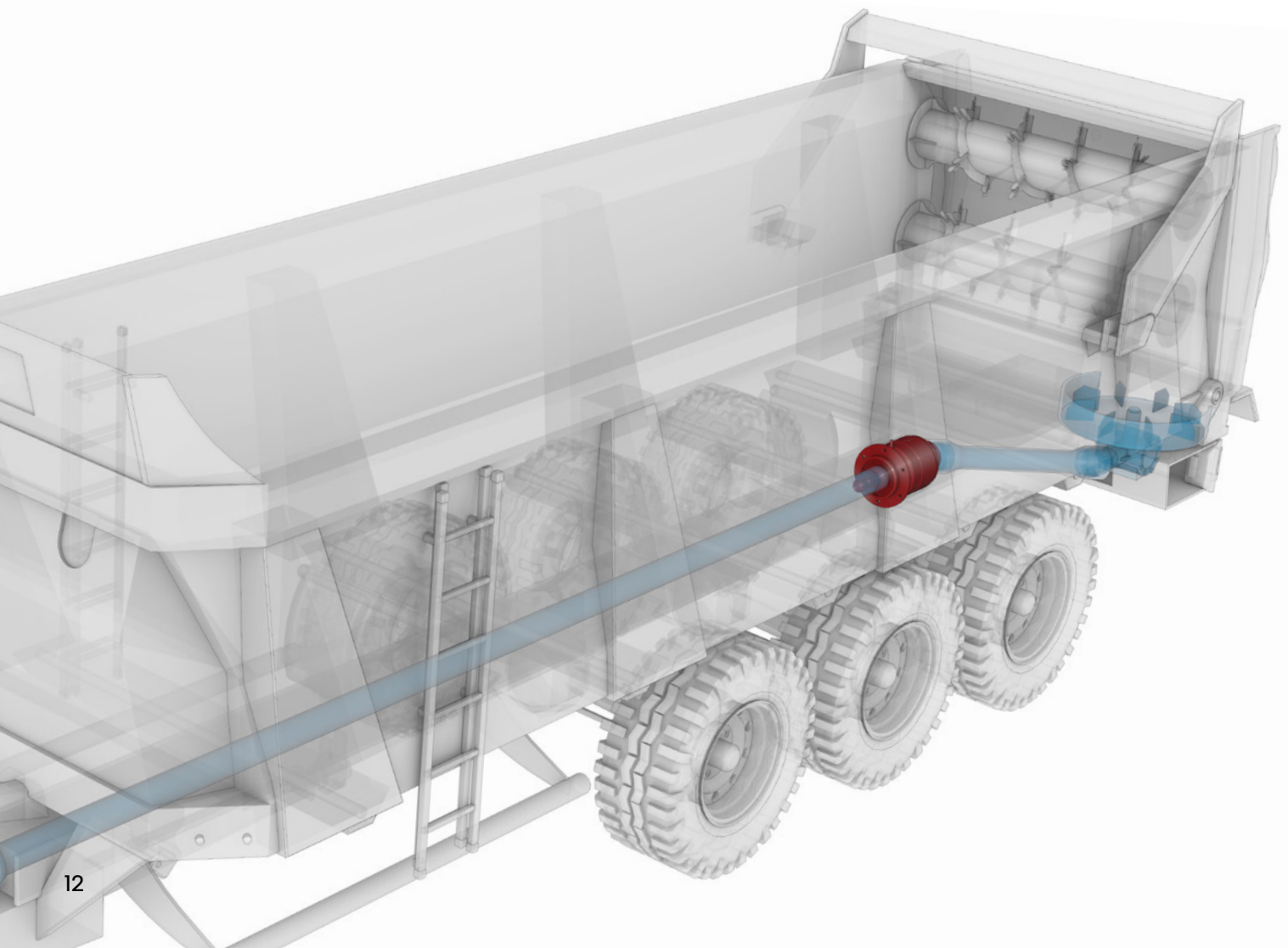
Series 230

Dry-running multi-plate clutch with hydraulic external actuation



Series 250

Hydraulic dry-running multi-plate clutch



Clutch series: Hydraulic wet-running clutch series 240 and 245

Hydraulic wet-running multi-plate clutches with a modular structure, this system clutch is an ideal solution for gearboxes in agricultural technology. The clutch has a high level of adaptability and, at the same time, benefits from cost optimisation. This is achieved by the configuration of the number of friction surfaces, friction lining combinations, customer interfaces and the availability of two sizes, which come with either a single or double clutch, respectively.

- 

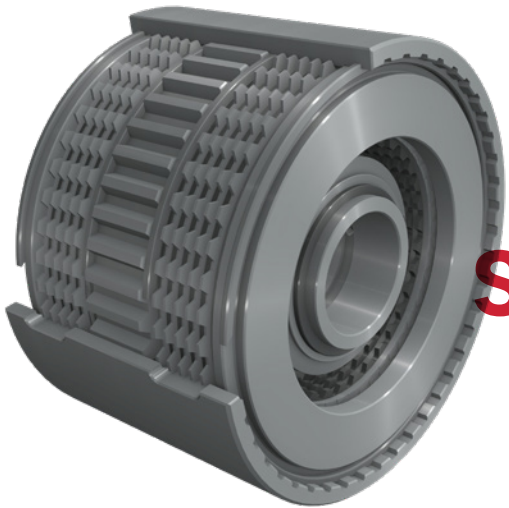
Single or double clutch
Available as single clutch in series 240 and double clutch in series 245.
- 

Suitable for high speeds
These clutches are designed for dynamic applications with high speeds.
- 

Configurable series
The modular structure of this design makes it possible to adapt it to a wide range of requirements easily.



Series 240¹⁾
Hydraulic wet-running single clutch



Series 245¹⁾
Hydraulic wet-running double clutch

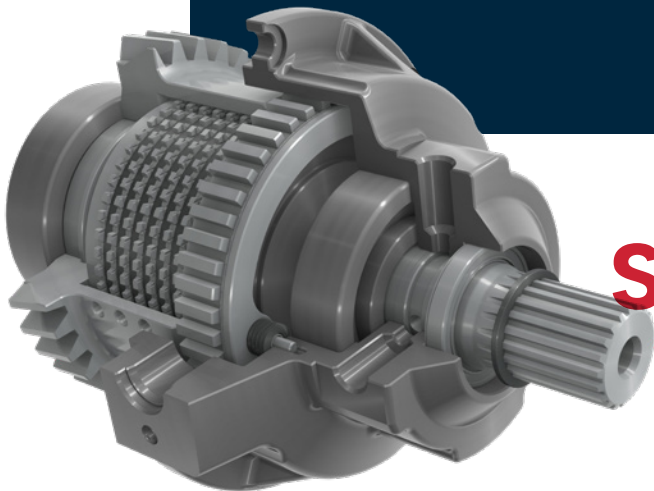


Series 240 and 245		Feature	Size 31 Single clutch	Size 47 Double clutch	Size 55 Single clutch
Dyn. torque depending on number of friction surfaces	$T_{dyn.}$		up to 1.200 Nm	up to 3.500 Nm	5.000 Nm
Speed ²⁾	n		2.000 min ⁻¹	2.000 min ⁻¹	2.000 min ⁻¹
Operating pressure	P_o		25 bar	25 bar	25 bar
Outer diameter	D1		149 mm	200 mm	260 mm
Length depending on number of friction surfaces	L1		60,5 mm	99 mm	130 mm

1) Extract of available executions. Other executions on request.
2) Higher speeds on request.

Hydraulic wet-running clutch series 260

Hydraulically actuated wet-running multi-plate clutches. The multi-plate clutch series 260 is used as a clutch for power take-off units (PTO) and as a 2-speed PTO version where it is integrated in the manual gearbox. Customer-specific connections via the gearwheel and the power take-off shaft profile allow different interfaces to be achieved.



Series 260¹⁾
Hydraulic wet-running PTO clutch



Speed sensor
Integrated speed sensor available.



Connection via gearwheel
Through a gearwheel, a customer-specific connection and a compact design were achieved.



Integrated brake
The integrated friction brake system prevents the power take-off shaft from rotating further as a result of drag torque when the clutch is disengaged.



Power take-off shaft profile in accordance with DIN
The profile of the power take-off shaft is usually designed to comply with current standards, though it can be adapted to customer requirements if necessary.

	Feature	Size 27	Size 31	Size 47
Stat. torque	T _{stat.}	750 Nm	1.800 Nm	3.000 Nm
Speed ²⁾	n	1.200 rpm	1.200 rpm	1.200 rpm
Maximum speed	n _{max.}	2.000 min ⁻¹	2.000 min ⁻¹	2.000 min ⁻¹
Operating pressure	P _o	25 bar	25 bar	25 bar
Outer diameter	D1	108 mm	155 mm	200 mm
Length including PTO shaft	L1	225 mm	253 mm	295 mm

1) Extract of available executions. Other executions on request.
2) Higher speeds on request.

Overload slipping clutch series 610 spring-loaded

The spring-loaded overload clutches are used to protect gearboxes in case of overload peaks. The clutch has an integrated speed sensor that provides a control signal to stop the drive motor in case of overload.



Series 610¹⁾
Wet-running multi-plate clutch



Speed sensor
Integrated speed sensor available.



Pre-set overload torque
Upon request the clutch can be set to a specific torque value.



Wet-running
The clutch can be adjusted to work as a wet-running system.

	Feature	Size 47	Size 63
Nominal torque	T	1.500 Nm	up to 8.000 Nm
Outer diameter	D1	200 mm	280 mm
Length	L1	200 mm	300 mm

1) Extract of available executions. Other executions on request.

Clutch with stationary oil supply series 230

Dry-running multi-plate clutches with external actuation. The series 230 is the hydraulically actuated execution of this clutch design. Through external, radial actuation this clutch can be used in cases in which it is not possible to supply the actuation oil centrally through the shaft. Dry-running plates allow a compact design. In addition, this clutch can be delivered with different input and output profiles.



Series 230¹⁾
Dry-running multi-plate clutch with hydraulic external actuation

	Feature	Size 43
Torque at 33 bar	T	4.000 Nm
Speed ²⁾	n	1.000 min ⁻¹
Maximum speed	n _{max.}	2.500 min ⁻¹
Outer diameter	D1	220 mm
Length	L1	364 mm

1) Extract of available executions. Other executions on request.
2) Higher speeds on request.

 **Protected against external influences**
The sturdy housing reliably protects the actuator unit and the plate pack.

 **Standardised actuator unit**
The executions for input and output can be easily adapted to customer requirements. There is no need to modify the actuator unit.

 **Radial actuation**
Radial actuation allows the clutch to be used flexibly.

Dry-running multi-plate clutch series 250

Hydraulic dry-running multi-plate clutches. Ortlinghaus clutches of series 250 stand out by a high thermal load capacity. Due to the modular design, the clutch can be adapted flexibly to different torque requirements from 500 Nm to 10,000 Nm. Furthermore, customer-specific components such as V-belt pulleys or sprockets can be integrated into the system. As an option, this clutch can be supplied with a rotary inlet and dust cover.



Series 250¹⁾
Dry-running multi-plate clutch

	Feature	Size 77
Torque	2 friction surfaces	3.300 Nm
	4 friction surfaces	6.600 Nm
	6 friction surfaces	10.000 Nm
Operating pressure	P _O	30 bar
Spring return pressure	P _S	up to 3,1 bar
Outer diameters	D	290 mm
Length	L	118 mm

1) Extract of available executions. Other executions on request.

 **Dust cover**
Optional dust cover provides additional protection against dirt.

 **Configurable series**
The modular structure of this design allows it to be adapted to a wide range of requirements easily.

 **Soft engagement**
The clutch can be actuated with precision, which facilitates soft engagement.

In good hands from the beginning

Get in touch with one of our experts.

- Enquiry**
- via contact form on our website www.ortlinghaus.com
 - directly via email to agrar@ortlinghaus.com
 - contact through one of our worldwide sales representatives www.ortlinghaus.com | [Contacts & Media](#) | [Contacts](#)

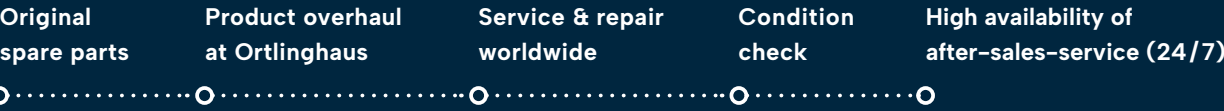
- Technical consultation**
- many thousands of products for different applications
 - selection of technically and economically best fitting products

- Order**
- quick response times
 - friendly support
 - flexible order handling

- Production**
- more than 100 years of production know-how
 - high quality

- Delivery**
- safe and reliable shipping methods according to customer requirements
 - worldwide delivery
 - known consigner

- After-sales**
- worldwide after-sales-services
 - high availability
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 - service@ortlinghaus.com



- Sales & Service hub with spare parts
- Sales & Service hub

Ortlinghaus worldwide

Founded in:	1898
Subsidiaries:	Ortlinghaus (U.K.) Ltd./England Ortlinghaus France Transmissions sarl/France Ortlinghaus Drive Technology (Shanghai) Co., Ltd./China Ortlinghaus Drive Technology India Pvt. Ltd./India Ortlinghaus America Latina/Brazil
Manufacturing:	Wermelskirchen/Germany Jinan/China
Sales:	Worldwide via agencies

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Issue 10.2025