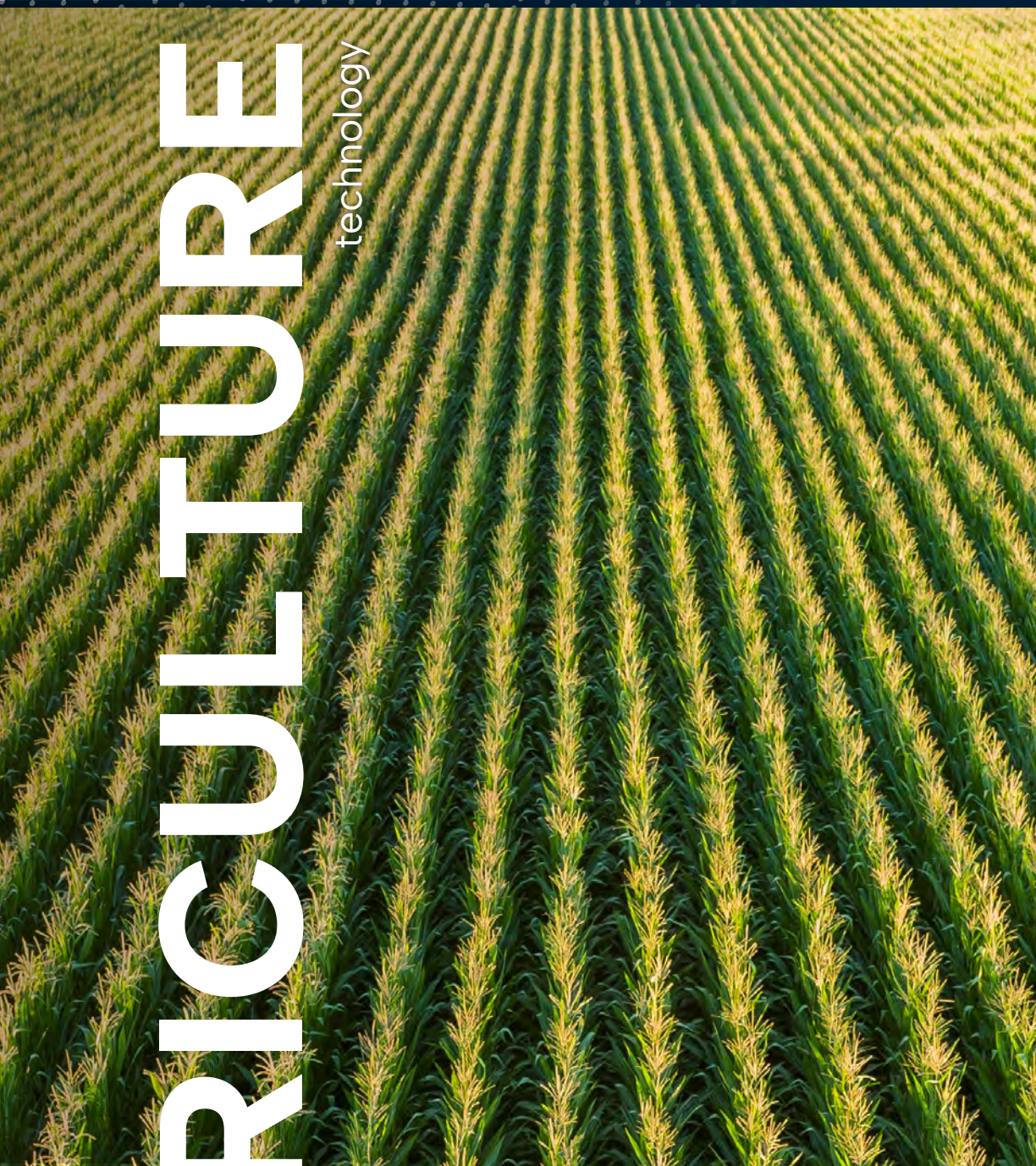


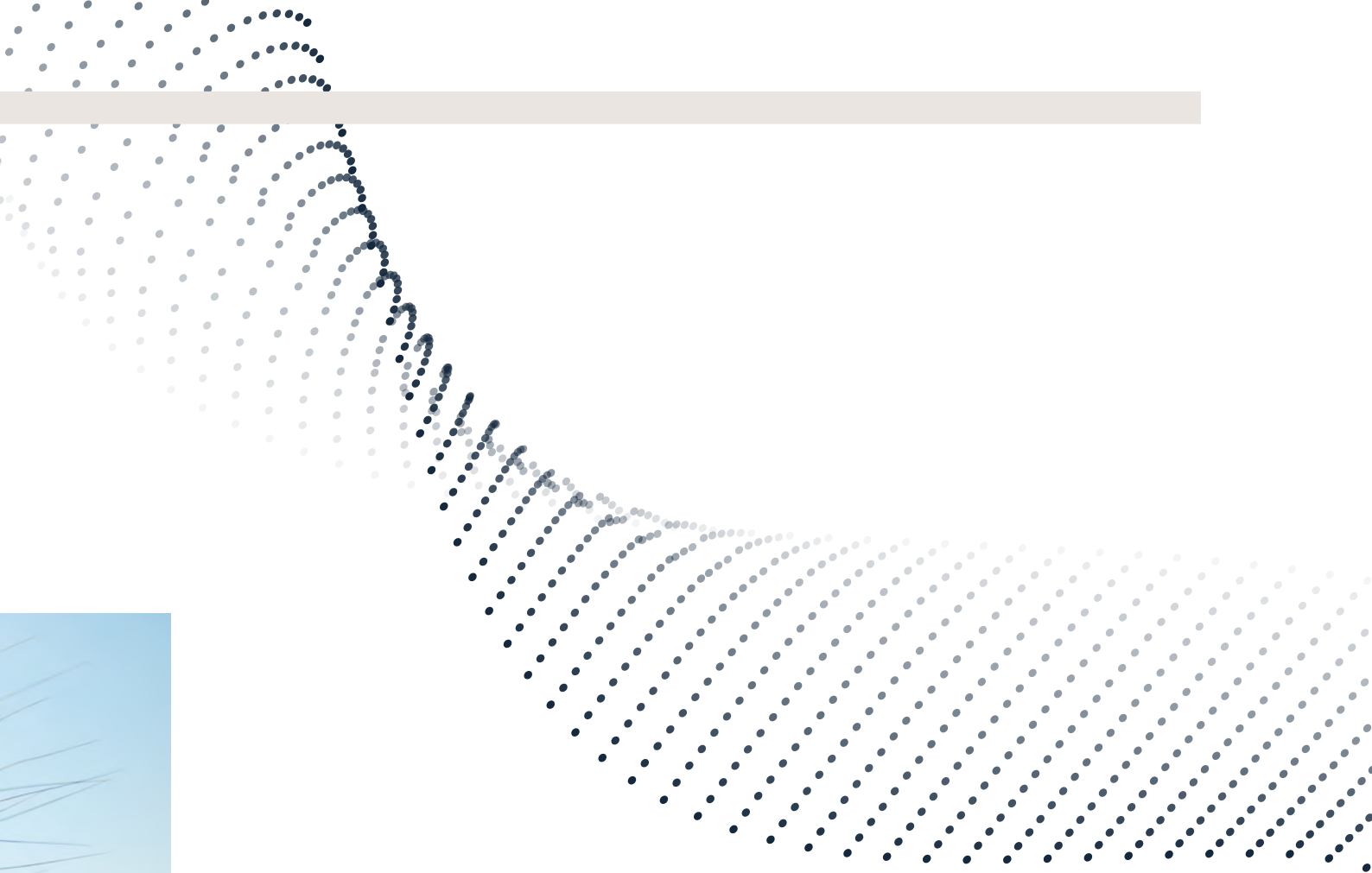
AGRICULTURE

technology



Driving agriculture
forward

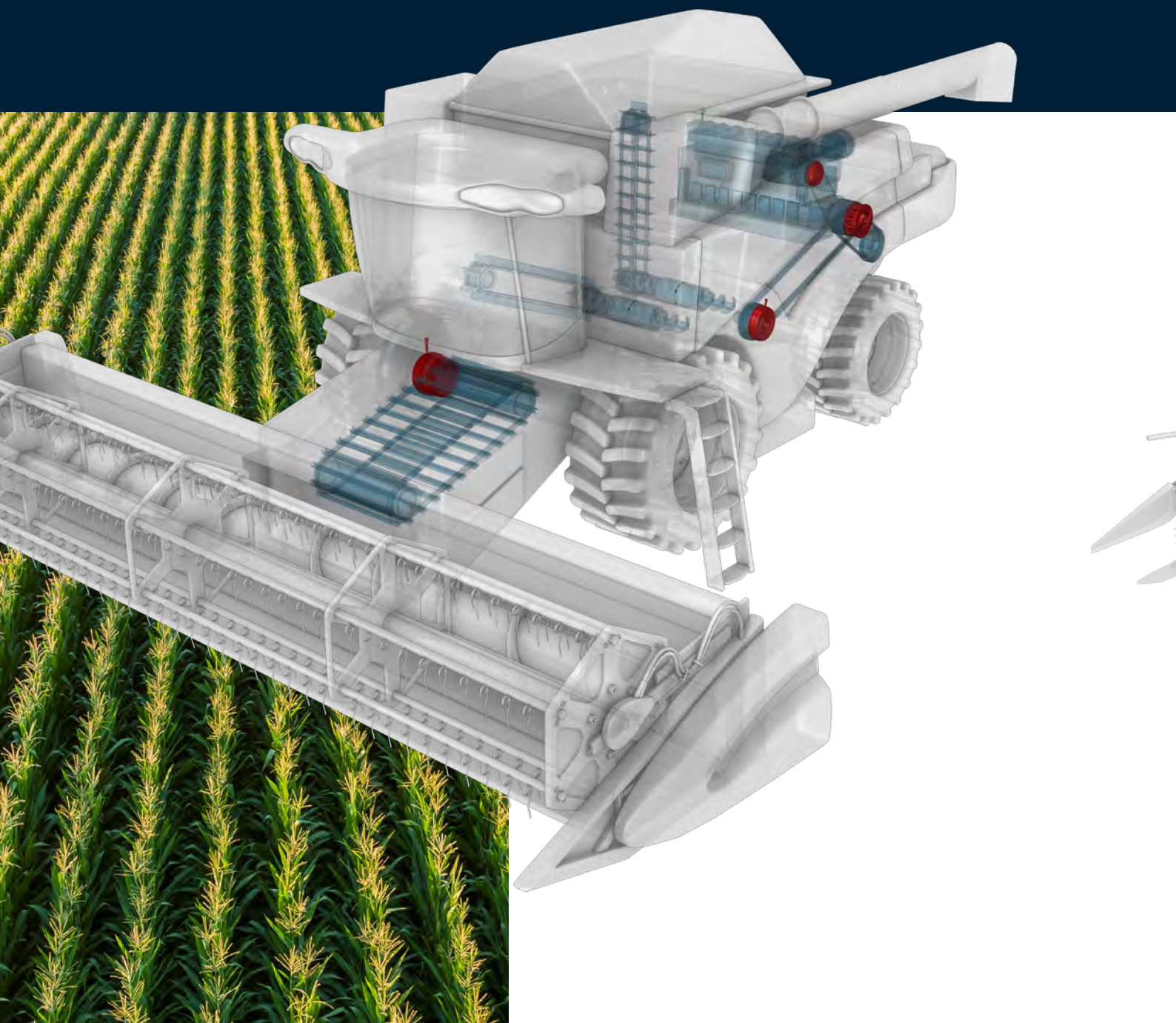
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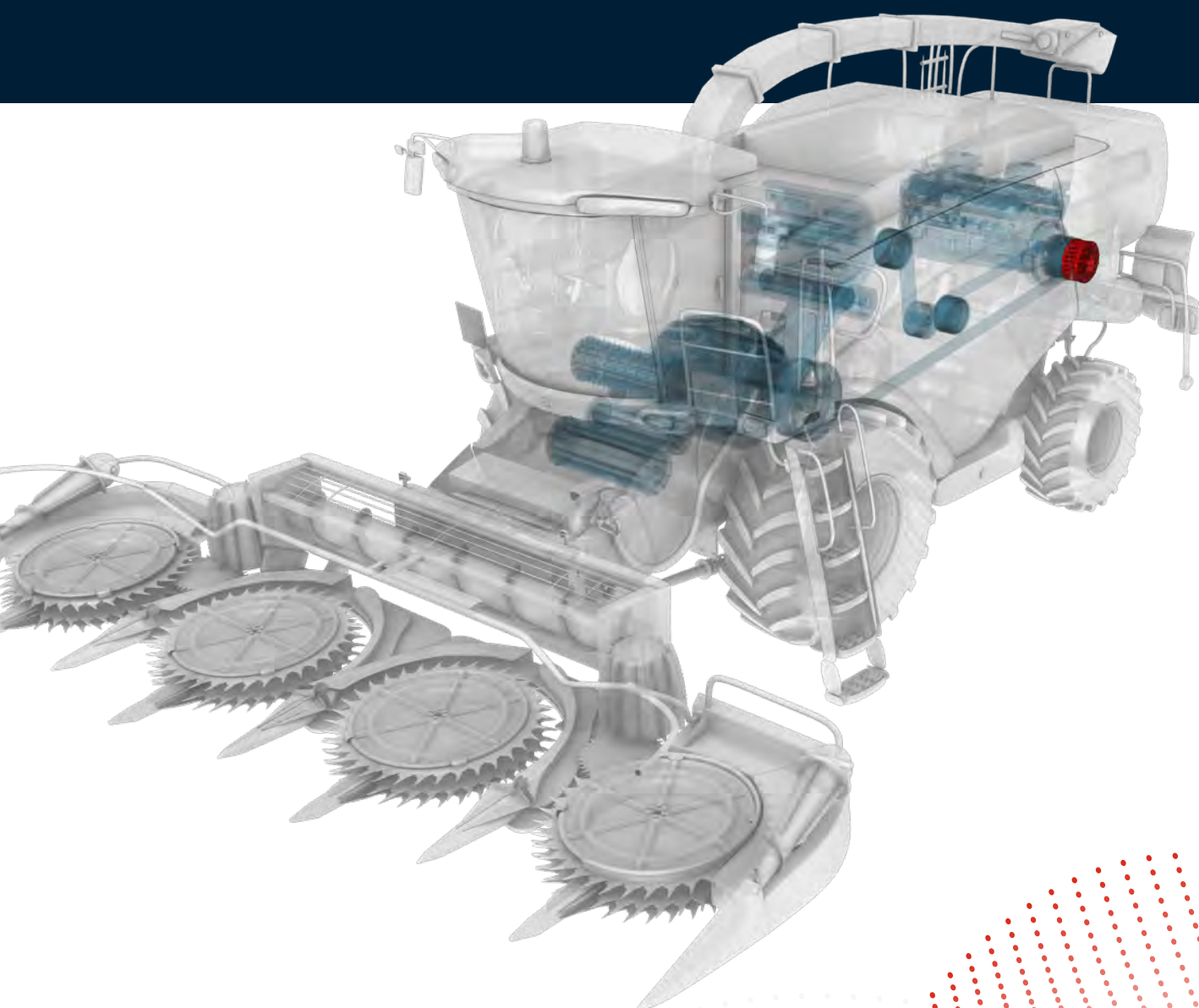
Agriculture technology

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 easily adapted to different requirements. Due to our extensive specialist knowledge, years of experience and ongoing technical innovations we are always a qualified partner for our customers.



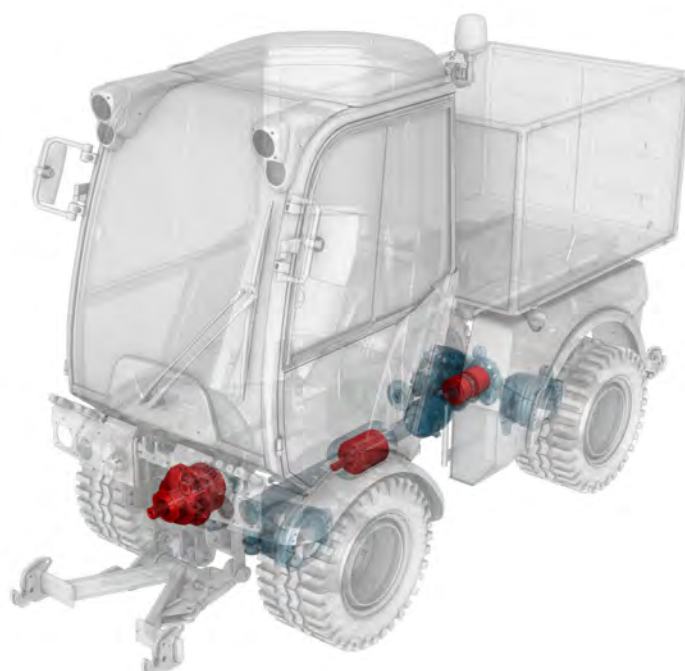
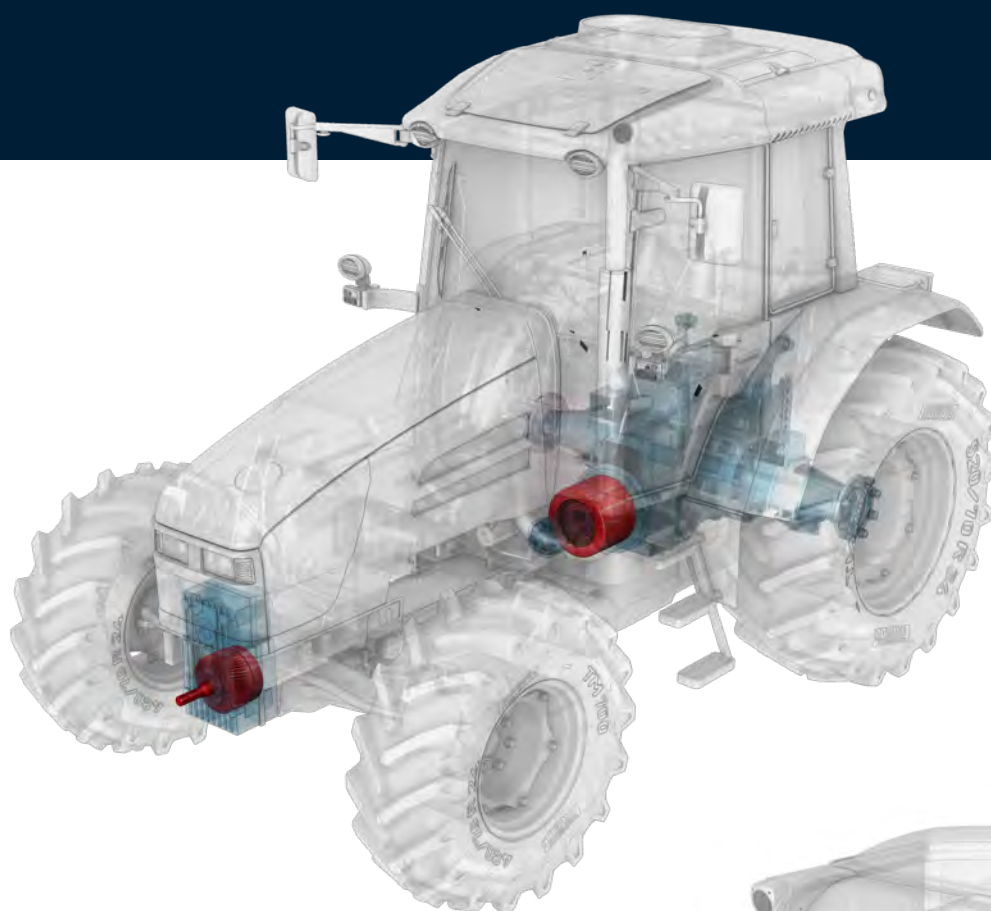
Self-propelled harvesting vehicles

Combine harvesters & 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.



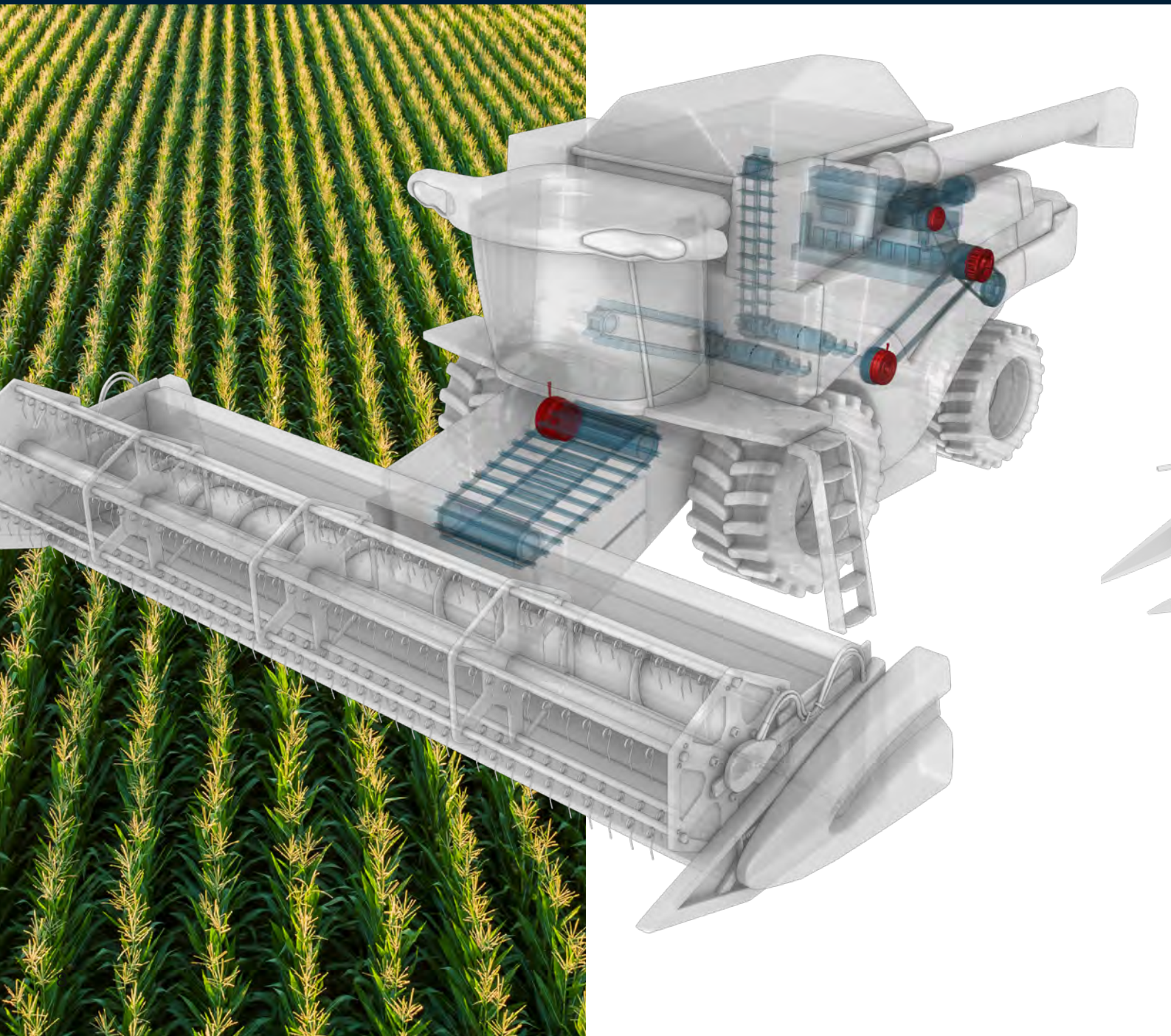
Trailers

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

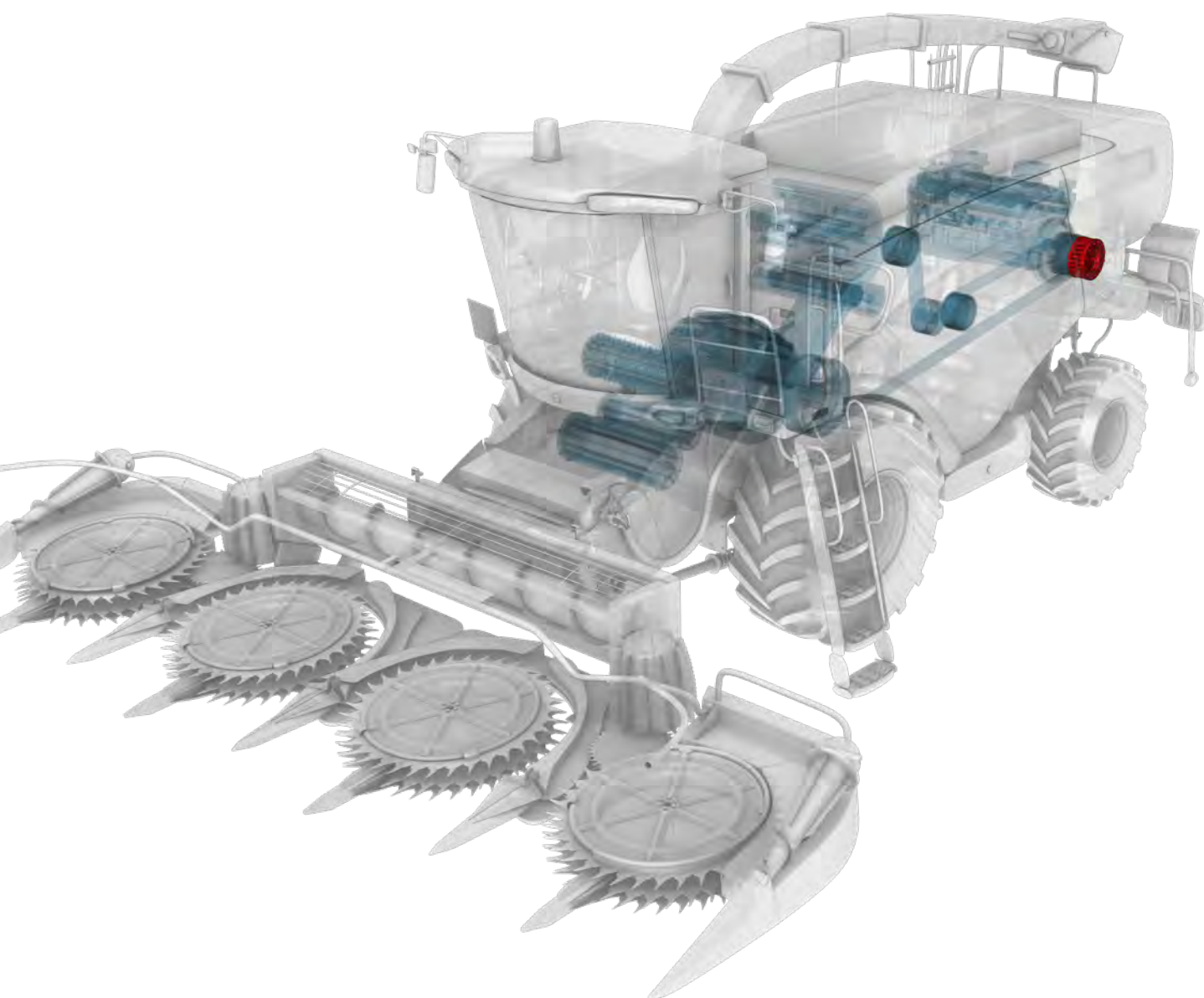
Self-propelled harvesters. These harvesters have a variety of drive systems that perform different functions, for which Ortlinghaus supplies customer-specific solutions. For these applications Ortlinghaus offers electromagnetic or hydraulically-actuated shifting clutches in wet or dry running execution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





Series 250

Hydraulic dry-running
multi-plate clutch



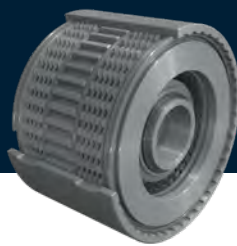
Tractors and municipal vehicles

A main area 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 out-put. 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.



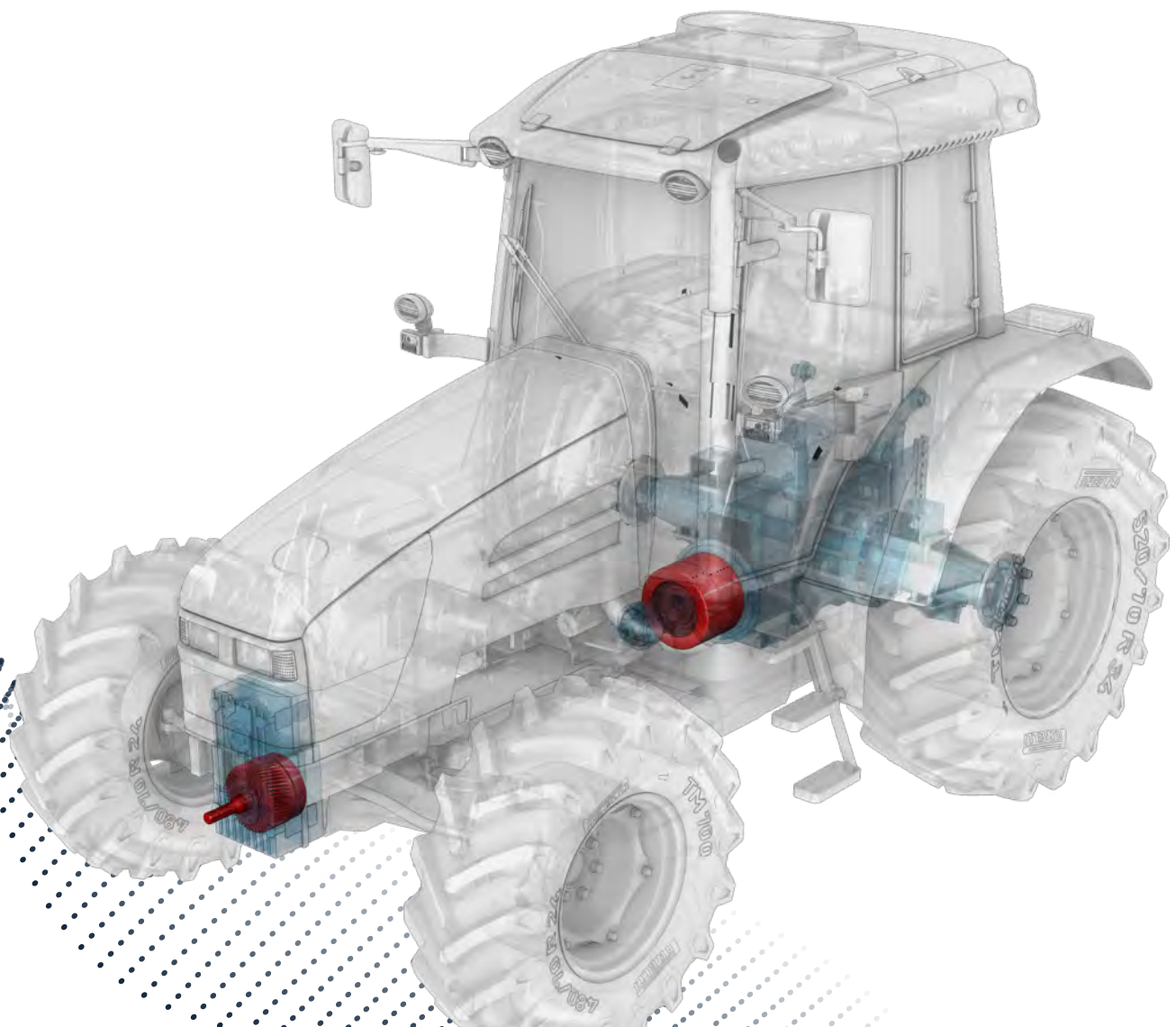
Series 260

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



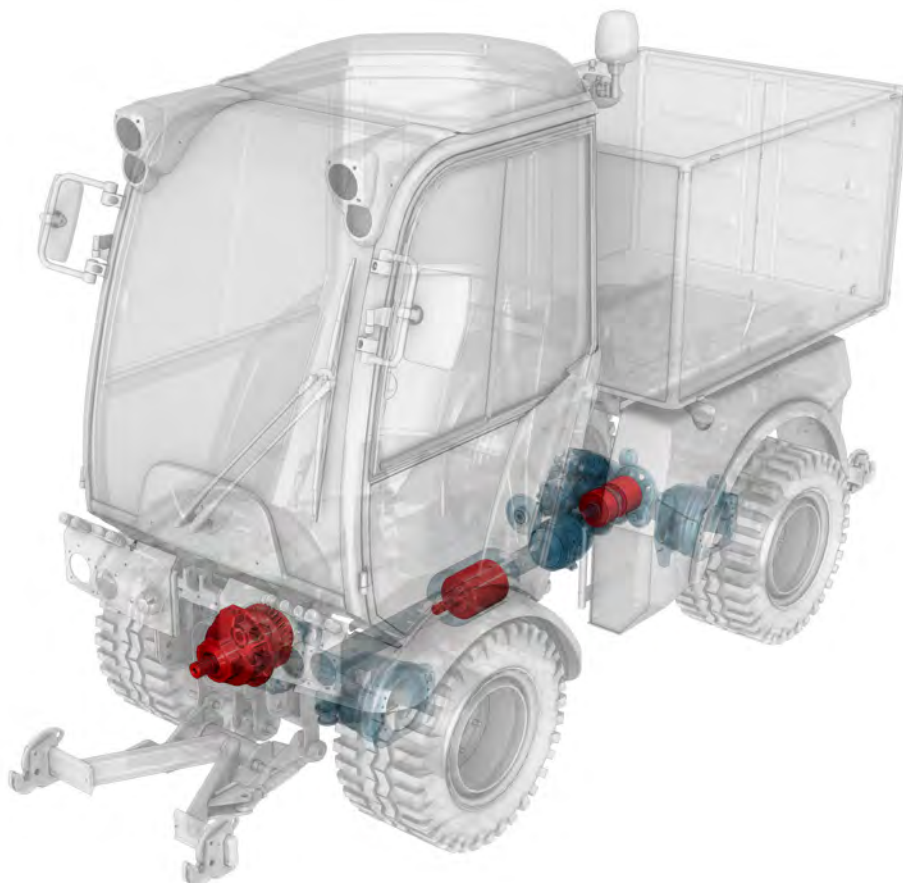
Series 260

Hydraulic wet-running PTO clutch



Series 245

Hydraulic wet-running double clutch



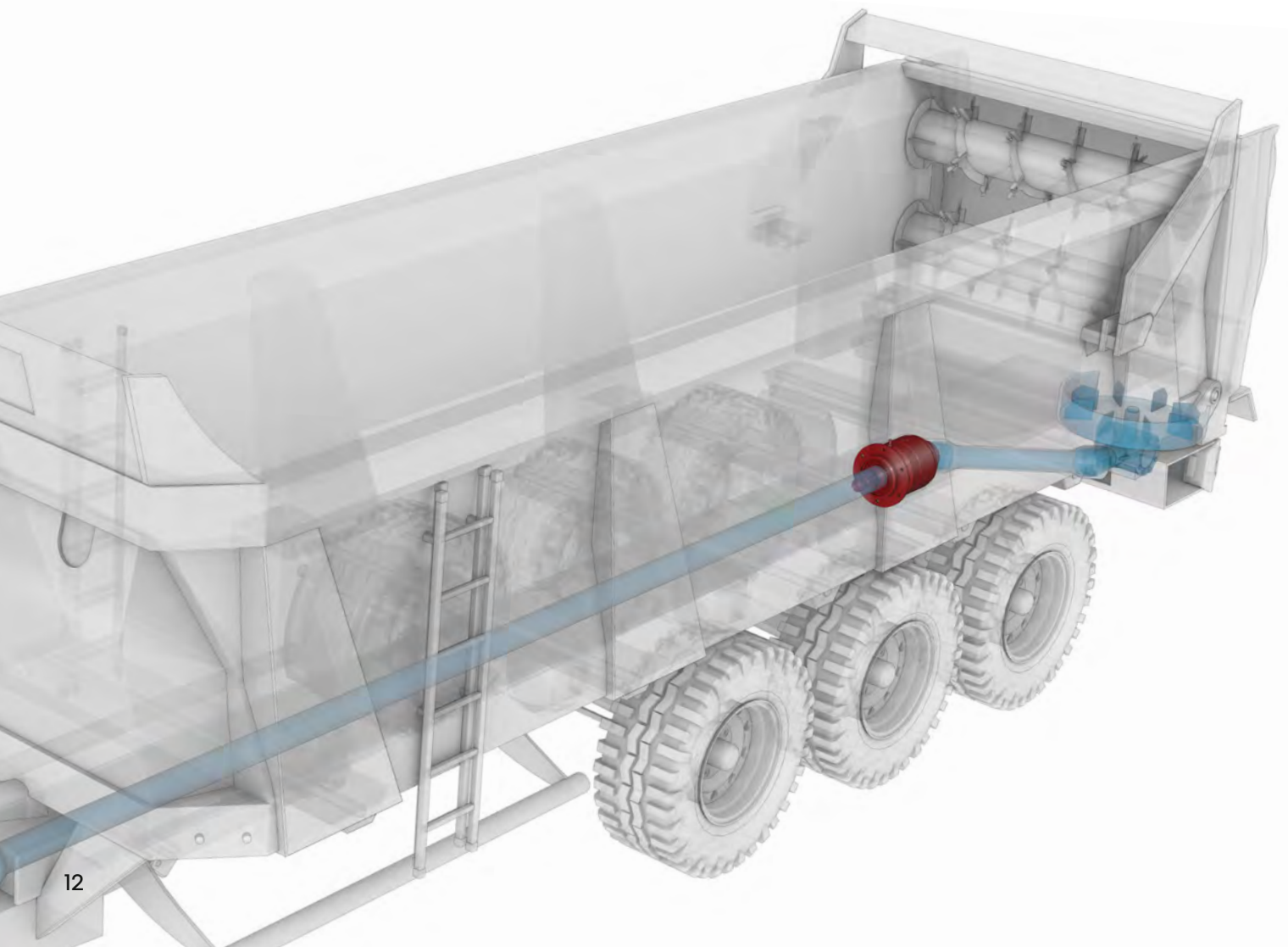
Trailers

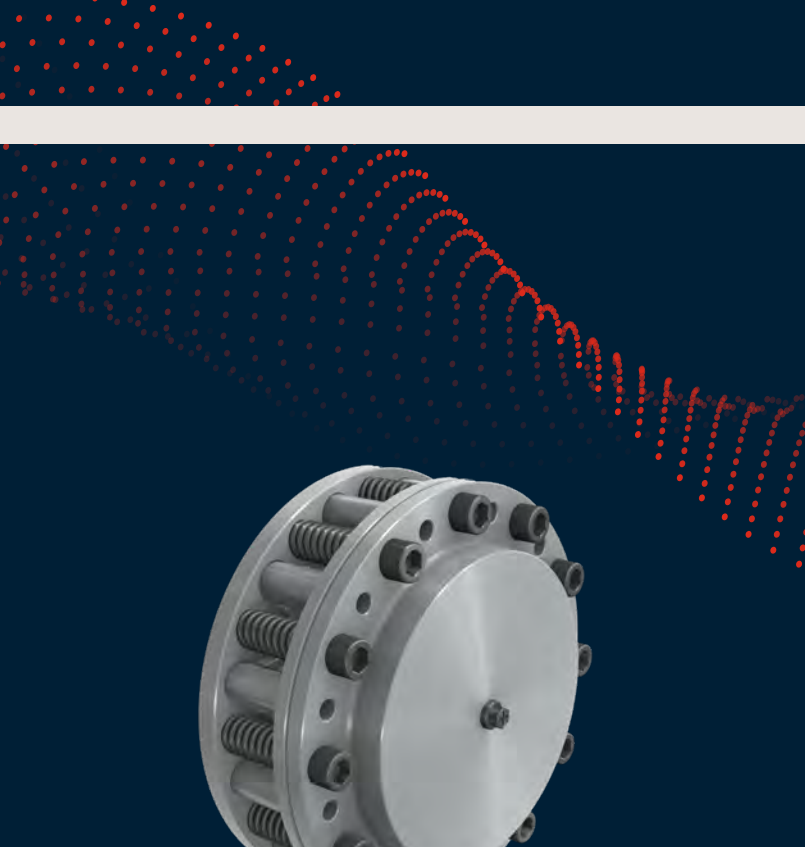
Auxiliary drives on trailers can be switched with the hydraulically actuated dry running clutches series 230, 250 or 225 depending on the requirements and installation. This broad range provides a solution for all types of safety circuit applications, but also allows the engagement of additional drives.



Series 230

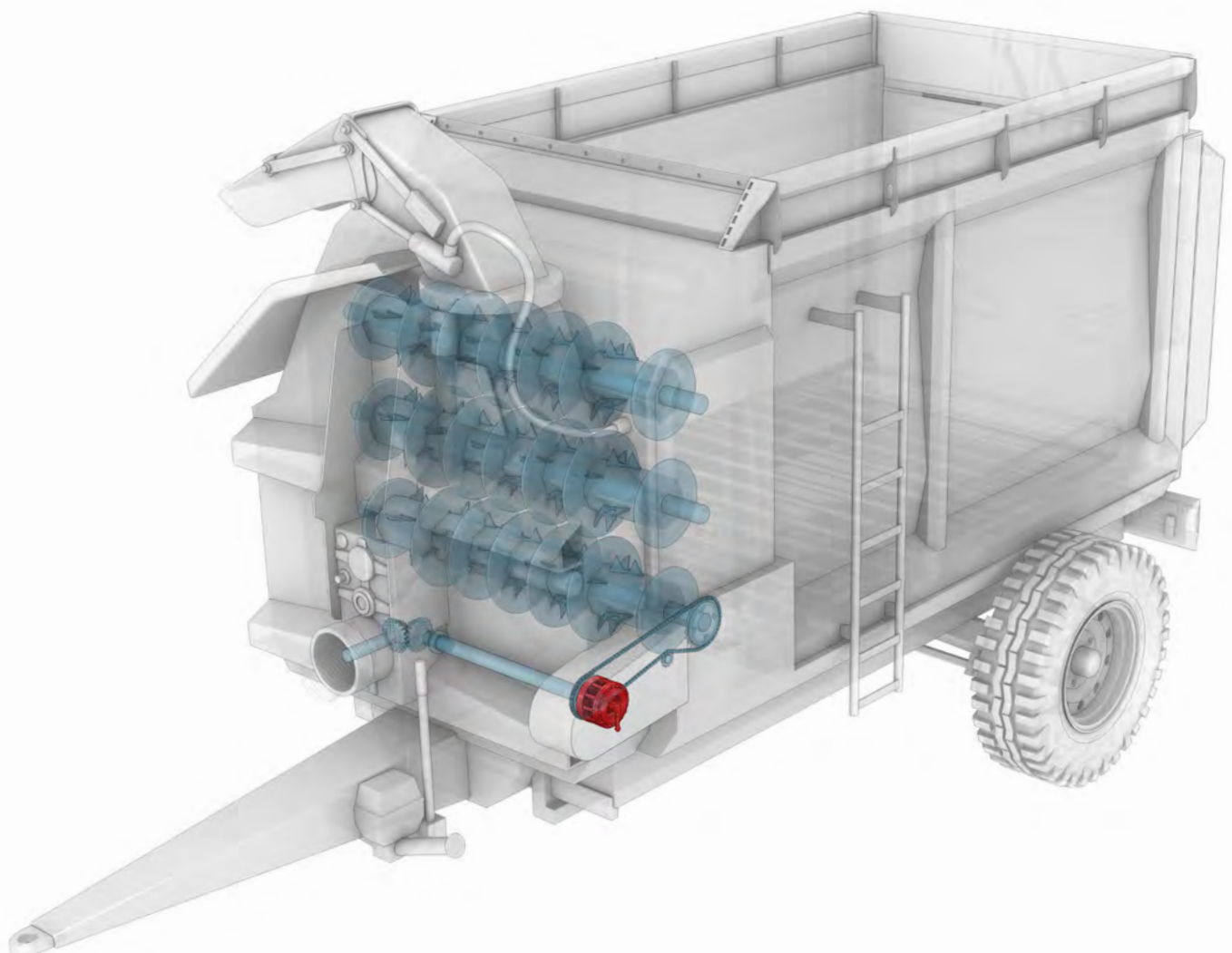
Dry-running multi-plate clutch with hydraulic external actuation





Series 250

Hydraulic dry-running
multi-plate clutch



Clutch series: Hydraulic wet-running series 240 and 245

Hydraulic wet-running multi-plate clutches with its 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 optimization. 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

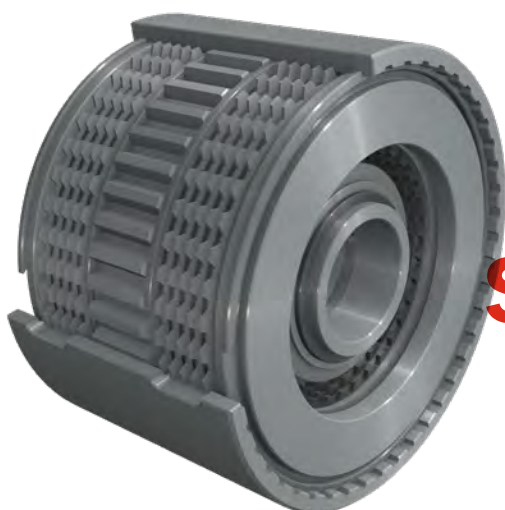
The modular structure of this design makes it possible to easily adapt it to a wide range of requirements.





Series 240

Hydraulic wet-running single clutch



Series 245

Hydraulic wet-running double clutch

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
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 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.

in Arbeit

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.

in Arbeit

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.



Series 260

Hydraulic wet-running PTO clutch

	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	2.000	2.000
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 clutches: 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.

in Arbeit

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.





Series 610

Wet-running multi-plate clutches

	Feature	Size 47	Size 63
Norminal 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 mutli-plate clutch with hydraulic external acutation

	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.



Standardized 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 in the system. As an option this clutch can be supplied with a rotary inlet and dust cover.



Series 250¹⁾

Dry-running multi-plate clutches

	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 to easily adapt it to a wide range of requirements.



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

In good hands from the beginning

Get in touch to 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
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- selection of technically and economically best fitting products

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- friendly support
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After-Sales-Service (24/7)



- 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 AG/Switzerland
 Ortlinghaus Drive Technology (Shanghai) Co., Ltd/China
 Ortlinghaus Drive Technology India Pvt.Ltd./India
 Ortlinghaus America Latina/Brasil

Manufacturing: Wermelskirchen/Germany
 Gams/Switzerland
 Jinan/China

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