

LINDNER



MERAK 2800.

**ULTIMATELY
VERSATILE.**

MERAK: SHREDDING AT ITS BEST.

UNIVERSAL GENIUS MEETS EFFICIENCY.

The Merak is the all-rounder of the Lindner product family and stands for maximum versatility, high productivity, and reliable throughput performance. Thanks to its innovative cutting system, the shredder can be used flexibly – from coarse pre-shredding to precise universal and post-shredding applications. The Merak consistently achieves particle sizes between 30 and 350 mm, covering a wide range of applications.

The well-engineered drive concept – available in either electric or diesel-powered versions – with three transmission stages enables efficient processing of a wide variety of materials, always operating at the optimal duty point and ensuring maximum energy efficiency.



KEY FEATURES

- Mobile, powerful and compact single-shaft shredder
- Electric or diesel-powered version designed for maximum energy efficiency
- Three different cutting units for maximum flexibility
- Maximum material diversity for a variety of applications
- Homogeneous, defined output sizes from 30 to 350 mm
- High ease of maintenance and servicing

MATERIALS:



Bulky waste



Industrial and commercial waste



MSW (household waste)



Plastic film



Plastic containers



Big Bags



Aluminium / PVC window profiles



Green waste



Tyres



Mattresses



Waste wood and pallets



Rootstocks

- 1.** Internal pusher
- 2.** Powerful belt and gear drive combo
- 3.** Plug & go screen unit
- 4.** Chassis
- 5.** Wet-running safety clutch
- 6.** Maintenance door
- 7.** Motor (tracked chassis)
- 8.** Energy-efficient electric motor
- 9.** Mobility
- 10.** Cooling
- 11.** Quick connectors for electrical supply
- 12.** Cutting unit
- 13.** Control

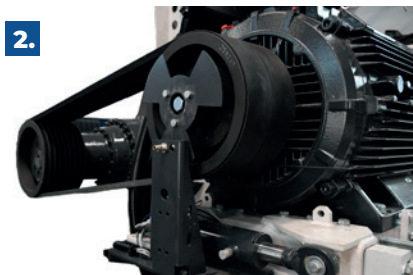


MOBILE ALL-ROUND SOLUTION FOR MAXIMUM PERFORMANCE AND FLEXIBILITY.

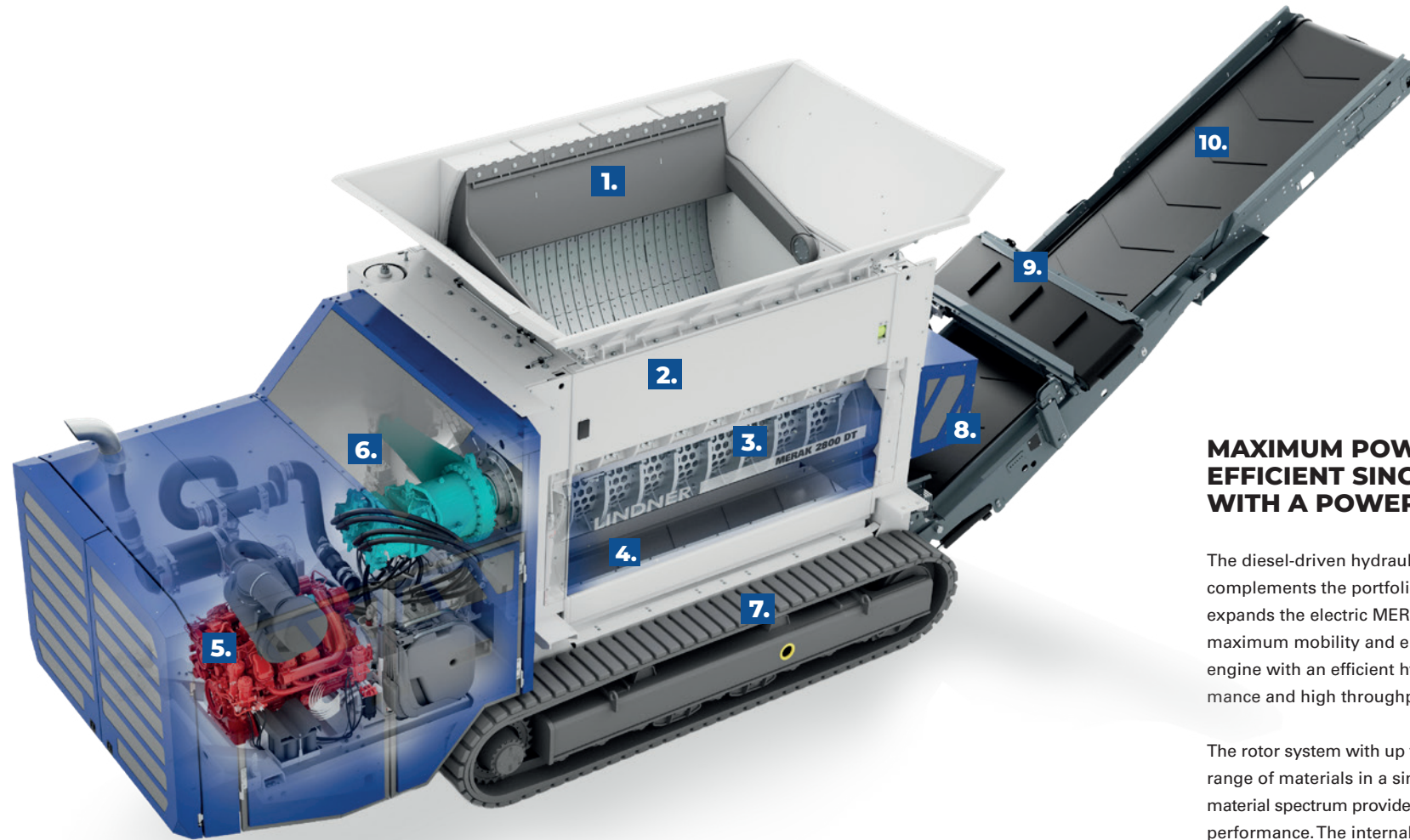
The powerful single-shaft shredder impresses with its robust design and added mobility. 100% electric, the innovative drive concept with three different cutting units and the ideal adjustment of the rotor speed to the specific material requirements ensures maximum efficiency and productivity. Moreover, the internal pusher supports continuous throughput.

The wet-running safety clutch protects against damage to the cutting and drive components in the event of blockages caused by contaminants, which are easily removed using the door that opens inwards. In addition, the self-sufficient auxiliary unit allows the shredder to be moved flexibly and all hydraulic functions to be operated independently of the electric power supply, e.g. for maintenance purposes.

For detailed product information, pictures & videos:



- 1. Internal pusher
- 2. Cutting unit
- 3. Plug & go screen unit
- 4. Maintenance door
- 5. Powerful diesel engine
- 6. Hydraulic unit
- 7. Tracked undercarriage
- 8. Diesel fuel tank
- 9. Overband magnetic separator
- 10. Folding discharge conveyor
- 11. Operator control unit



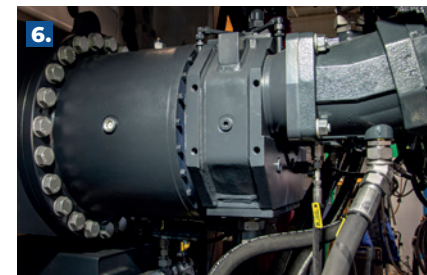
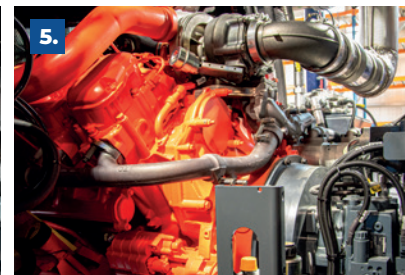
For detailed product information, pictures & videos:



**MAXIMUM POWER:
EFFICIENT SINGLE-SHAFT SHREDDING
WITH A POWERFUL DIESEL DRIVE**

The diesel-driven hydraulically-operated single-shaft shredder complements the portfolio as a powerful mobile solution and expands the electric MERAK 2800 ET. It combines robust design with maximum mobility and enables off-grid operation. A powerful diesel engine with an efficient hydraulic system ensures reliable performance and high throughput.

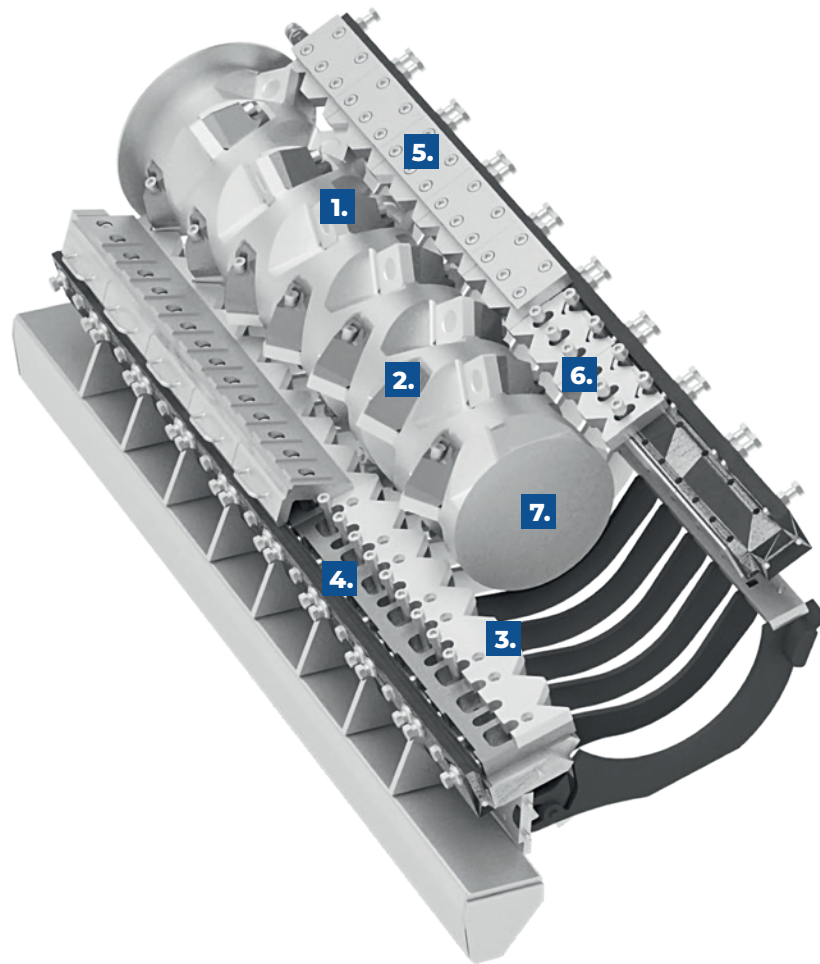
The rotor system with up to 110 rpm efficiently processes a wide range of materials in a single step. Variable output sizes and a broad material spectrum provide maximum flexibility with consistent performance. The internal pusher ensures a continuous material flow and consistently high productivity.



MERAK PRIMARY SHREDDING.

EFFICIENCY HIGH, VOLUME LOW.

The Merak primary shredding cutting system is specially designed for volume reduction and high throughputs and prepares materials optimally for downstream processes.



- 1. Rotor knives
- 2. Knife holders
- 3. Counter knives
- 4. Counter knife slider
- 5. Clamping bar
- 6. Scraper
- 7. Solid shaft

Particle size:



MATERIALS:

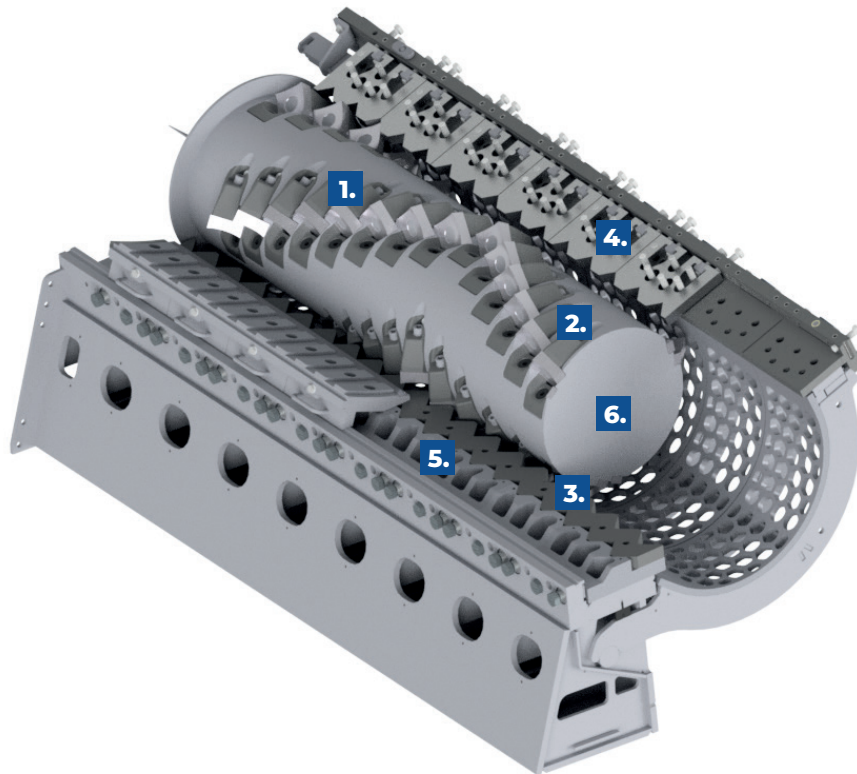
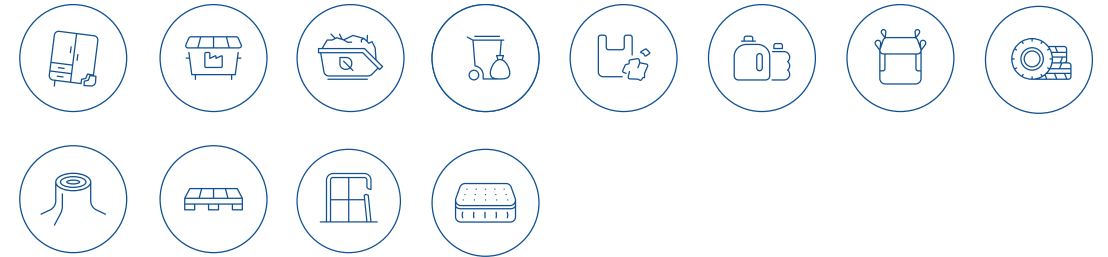


MERAK UNIVERSAL SHREDDING.

ALWAYS THE RIGHT CHOICE.

The Merak universal cutting system was developed for primary shredding as well as for the one-step processing of a wide variety of material streams to a defined output size. The closely arranged rows of knives in combination with adjustable speeds ensure high throughput, efficiency and capacity to shred diverse materials and allow for different applications, in each case depending on the requirements and screen diameter. Both the knives and the knife holders are screwable, so that the individual components can be replaced quickly and easily if necessary.

MATERIALS:



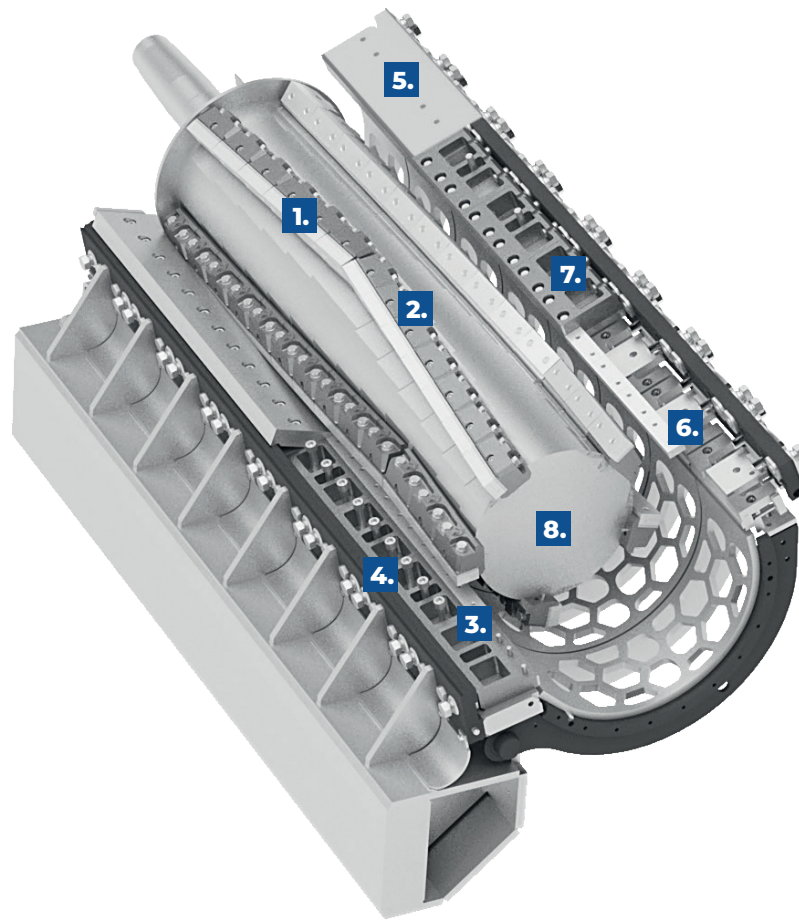
- 1. Rotor knives
- 2. Knife holders
- 3. Counter knives
- 4. Scraper
- 5. Counter knife slider
- 6. Solid shaft



MERAK SECONDARY SHREDDING.

THE PERFECT FINISH.

The Merak secondary shredding cutting system is specially designed for small output sizes from 30 to 120 mm. Depending on the application and screen size, this cutting unit is ideal for the secondary shredding of waste wood or the processing of industrial and commercial waste into medium-calorific substitute fuel and to fuel calciners.



- 1. Rotor knives
- 2. Knife holders
- 3. Counter knives
- 4. Counter knife slider
- 5. Clamping bar
- 6. Scraper
- 7. Scraper slider
- 8. Solid shaft



MATERIALS: Pretreated materials of any kind



MERAK E-DRIVE UNIT.

POWERFUL COMBINATION.



The Merak's electric drive system offers maximum energy efficiency. The proven combination of a V-belt drive and an ABB asynchronous motor also ensures exceptional reliability. Whether for pre-shredding, universal shredding, or post-shredding, the Lindner modular system – with its various drive and cutting units – combines a wide range of applications with unmatched material versatility, all at the optimal operating point. Equipped with a torque-controlled safety clutch, downtime is minimised while both the cutting unit and drive components are protected. The optionally available automatic belt-tensioning system (ATB) also ensures consistently optimal power transmission.

■ FLEXIBLE APPLICATION

The innovative modular drive system enables the cutting unit and rotor speed to be perfectly adapted to the requirements of the specific input material, maximising efficiency and flexibility.

■ EFFICIENT ELECTRIC DRIVE

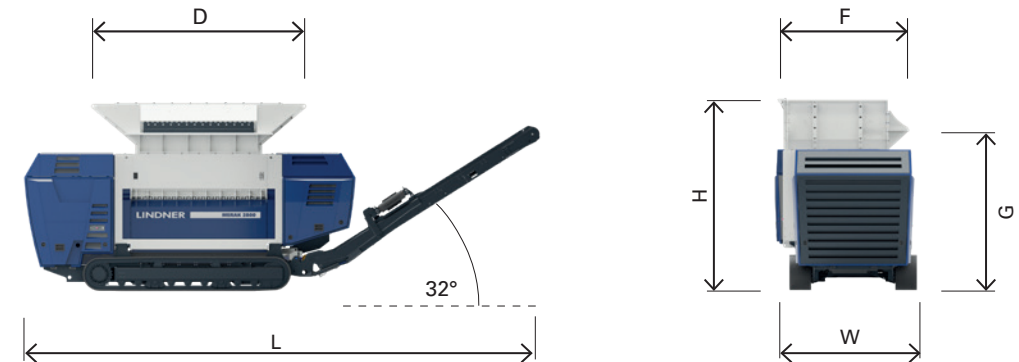
Maximum flexibility and versatility thanks to the 100 % electric drive system in combination with a self-sufficient 37 kW diesel unit.

■ MAXIMUM PRODUCTIVITY

The integrated, wet-running safety clutch protects against damage to the cutting and drive components in the event of blockages caused by non-shreddables, minimising downtime and maximising productivity.

■ POWER ELECTRONICS INCLUSIVE

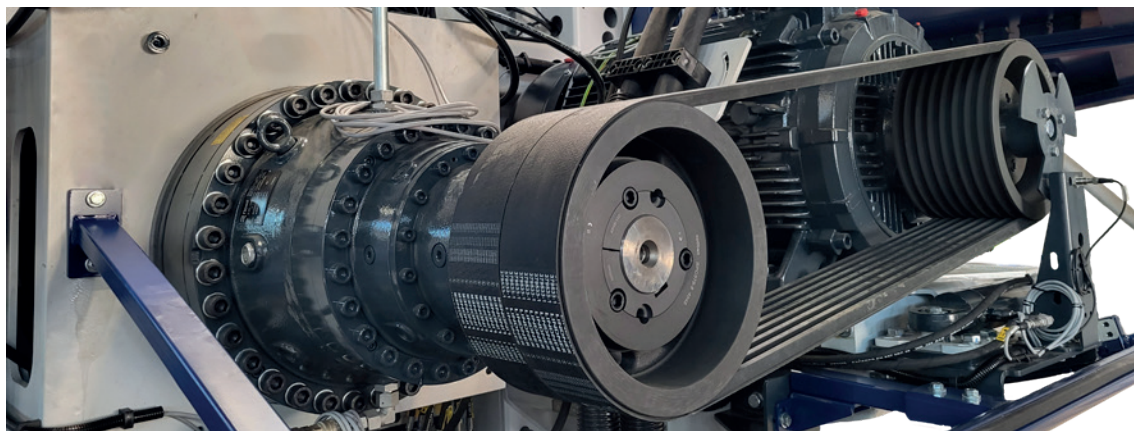
Trouble-free operation even in difficult environments thanks to the integrated frequency converter cooling system and the vibration-insulated design.



MERAK 2800 ET

DIMENSIONS*			
Measurements (LxWxH)	mm	12211 x 3308 x 4421	
Hopper opening (DxF)	mm	4546 x 2619	
Feeding height (G)	mm	3745	
Hopper capacity	m ³	9.5	
Outlet width	mm	1300	
Total weight	kg	44000 (46300 with hopper and magnetic separator)	
CUTTING UNIT*			
Rotor length	mm	2800	
Rotor speed	min ⁻¹	55-103	
Cutting system	mm	145P	116PR 172RP5
Number of knives	pcs.	32	56 80
Hexagonal	pcs.	8	8 8
Round screen	pcs.	8	8 8
Polygonal	pcs.	8	8 8
Sickle-shaped	pcs.	8	8 8
DRIVE UNIT*			
Motor	kW	1 x 250 1 x 315 (optional)	
Mobility		Tracked chassis + 37 kW independent power unit	
Frequency converter		✓	

*The stated values refer to standard machine versions with a standard hopper. The right to make technical changes is reserved.



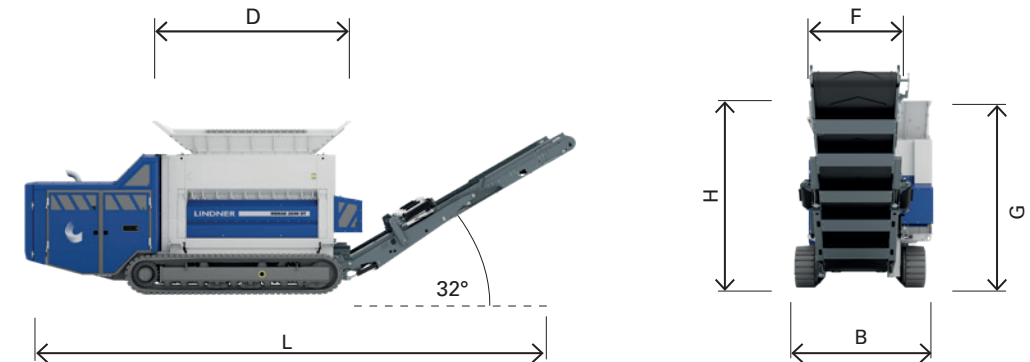
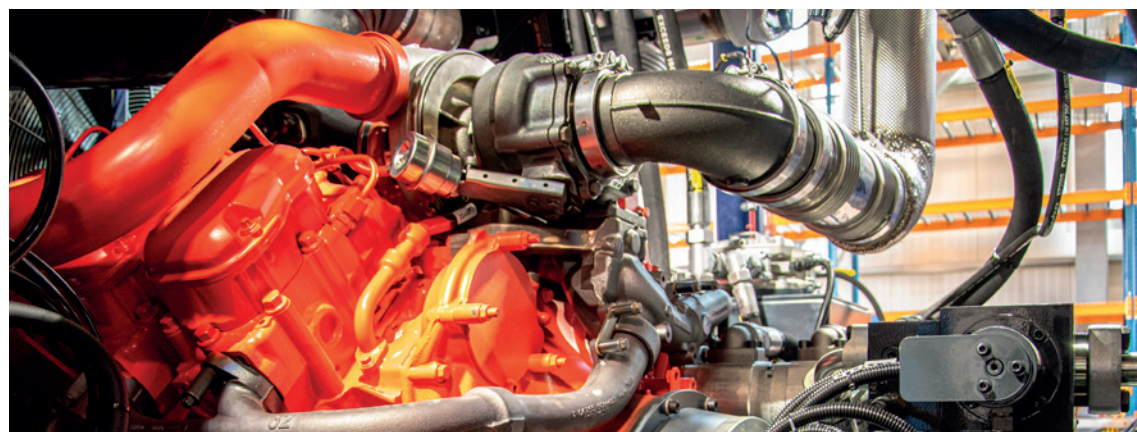
MERAK DIESEL DRIVE UNIT.

DESIGNED FOR MAXIMUM FLEXIBILITY.

The MERAK 2800 DT with diesel-hydraulic drive combines strong performance with maximum operational flexibility. As an extension of the electric concept, it operates efficiently and independently of an external power supply – ideal for mobile applications.

The powerful diesel engine and the coordinated hydraulic system ensure reliable power transmission even under demanding conditions. Variable cutting and screening units enable flexible adaptation to different materials, while maintaining consistently high processing quality and stable performance.

- **INDEPENDENT OF THE POWER GRID**
Maximum operational freedom even in remote locations.
- **UNIQUE ON THE MARKET**
Drive concept with a diesel-hydraulic system and speeds of up to 110 rpm.
- **OPTIMISED INVESTMENT COSTS**
No transformer station or separate diesel generator required.
- **MAXIMUM FLEXIBILITY**
Single-stage shredding with variable output sizes and a wide range of input materials.
- **READY FOR IMMEDIATE USE**
Mobile, quickly deployable, and requiring minimal infrastructure.
- **PREMIUM COMPONENTS**
Use of renowned manufacturers for maximum reliability and durability.



MERAK 2800 DT				
DIMENSIONS*				
Measurements (LxWxH)	mm	13216 × 3145 × 4040		
Hopper opening (DxF)	mm	4546 × 2619		
Feeding height (G)	mm	3740		
Hopper capacity	m ³	9.5		
Outlet width	mm	1300		
Total weight	kg	47200		
CUTTING UNIT*				
Rotor length	mm	2800		
Rotor speed	min ⁻¹	0-110		
Cutting system	mm	145P	116PR	172RP5
Number of knives	pcs.	32	56	80
Hexagonal	pcs.	8	8	8
Round screen	pcs.	8	8	8
Polygonal	pcs.	8	8	8
Sickle-shaped	pcs.	8	8	8
DRIVE UNIT*				
Diesel drive power	kW	566		
Mobility		Tracked chassis		
Exhaust gas standard		EU stage V / USTier 4f / EU stage NC		

*The stated values refer to standard machine versions with a standard hopper. The right to make technical changes is reserved.

CREATES VALUE.



Lindner NEXUS. The service platform that connects.

Real-time machine data, performance monitoring & maintenance.

With Nexus, the new Lindner service platform, you have an overview of all relevant machine data. Using the Nexus Gateway, real-time machine data is transferred to the digital platform and summarised in customisable reports. The platform also provides all documentation relevant to the system or the individual shredders, as well as updates. The Lindner service and support team can also be reached via Nexus. In urgent cases 24/7.

Service à la Lindner:

- Lindner Nexus - digital service platform for customised performance monitoring
- Available 24/7 – worldwide
- Remote assistance – rapid support with remote maintenance
- High availability of spare parts thanks to extensive in-house production
- Original Lindner spare parts made in Austria for that extra level of quality

Maintenance – to keep everything running smoothly:

- Flexible maintenance offers for high machine availability
- Spare part packages for every application
- Qualified shaft reconditioning & hardfacing in line with the highest international standards

Lindner-Recyclingtech GmbH

Manuel-Lindner-Strasse 1 | 9800 Spittal/Drau | Austria
t.: +43 4762 2742 | f.: +43 4762 2742-9032 | office@lindner.com

www.lindner.com