

Doppstadt

INVENTHOR

TYPE 6

SLOW SPEED SHREDDER LINE



Best Solution. Smart Recycling.

[doppstadt.com](https://www.doppstadt.com)





INVENTHOR TYPE 6

Redefining efficiency.

The Inventhor Type 6 sets standards in terms of shredding efficiency. The new addition to the slow speed shredder line fits perfectly with Doppstadt's "Smart Solutions" concept. It impresses in every aspect as a mobile, modular machine that can be used cost-effectively and flexibly in a wide variety of applications. And thanks to its great efficiency, it distinguishes itself with a fast return on investment.

EXTENDING OUR LEAD

The Inventhor Type 6 combines the best of both worlds. It is technologically based on the latest generation of shredders from Doppstadt. At the same time, it consistently continues the success of its predecessor, DW 3060. The entire machine concept is geared to:

- **higher efficiency**
- **ease of use**
- **good accessibility**
- **increased uptime**

For instance, it includes an improved cooling system, a maintenance-optimized engine compartment, an intelligent material feed, a well-designed shredding compartment and an effective material discharge.

SHREDDING WITHOUT COMPROMISE

The unique and variable direct drive concept, the VarioDirect Drive forms the core technology. It leverages Doppstadt's patented phase shifter gearbox. By continuously transferring torque to the shredding system, it ensures high production, low fuel consumption and optimum starting

performance, even when handling difficult shredding jobs!

The Inventhor Type 6 is able to handle a wide range of applications thanks to its flexible shredding system with different tooth sizes.

The whole shredding concept is designed for high uptime of the machine, easy and fast maintenance or service work while offering improved safety. One example for the outstanding accessibility is the comb door which can be opened up to 90°.

ENSURING YOUR SYSTEM RUNS SMOOTHLY!

The SLOW SPEED SHREDDER LINE includes all shredders that pre-shred and work at low speeds and high torque. All of these machines are consistently tailored to meet your requirements. And the result of our many years of expertise in successfully delivering high-quality and forward-looking technology.

That is why the Inventhor Type 6 takes the next important step compared to other machines. The effective drive train, the optimized material feed and shredding system including an excellent monitoring concept and production performance capacity even during demanding appli-

cations make the Inventhor Type 6 a highly efficient future-proof machine for almost every area of application that is able to handle a wide range of materials.

THIS IS DOPPSTADT.

The family owned business Doppstadt with headquarters in Velbert, Germany, was founded in 1965. While the company focused in the beginning on the development of agricultural machinery, Doppstadt is now a leading internationally active solution and full-service provider in all areas of environmental technology and recycling. "Best Solution. Smart Recycling." – in line with this slogan, we combine proven processes to create complete individual solutions that are distinguished by innovative process operations, maximum efficiency and optimum economic viability. Especially in the fields of water-based separation systems and wet recycling, we impress our customers with our flexible systems designed to handle every challenge. From our locations in Velbert, Wülfrath, Calbe and Wilsdruff, we serve customers in more than 40 countries with our own network of authorized dealers, offering comprehensive services that cater to Doppstadt's unique portfolio.

MACHINE DETAILS



COOLING SYSTEM DESIGN

Highly efficient cooling system geometry, directly upstream of hydraulic, reversible fan.



PLUG & PLAY

Simple operating concept makes daily routine tasks easy with the press of a button using different programs.



ENGINE COMPARTMENT

The engine compartment offers lots of space and easy access to all components, such as engine equipment, transfer case with direct engine connection or to the load-sensing system.



SMART HOPPER

Extended feed area and automatic adjustment of material feed to increase the production of the shredding system.



MATERIAL FEED AND SHREDDING CHAMBER

The steep walls of the feed hopper ensure continuous production. The flexible shredding concept with different shaft configurations allows a precise adaptation to different material requirements.



VARIODIRECT DRIVE

The newly developed and patented Vario-Direct Drive delivers steplessly variable power directly to the shredding shaft.



REAR BELT OPTIONS

The central DoppHitch attachment system makes it easy to utilize different rear-mounted system solutions. Selectable belt length options offer high discharge heights and steplessly adjustable belt angles.



INNOVATIVE DOOR CONCEPT

All door panels open upwards ensuring optimum access. The GRP door panels with their large air vents ensure optimal ventilation, while reducing noise emissions at the same time.



EASY ACCESS CONCEPT

The counter comb door which opens up to 90° greatly ensures easy access to the entire shredding compartment. It also increases on-the-job safety and ensures a fast re-start after service work.



MULTI TOOL CONCEPT

Use of shredding tools equipped with Dopp-Lock® system from other slow speed shredders, available in sizes M and L including the new generation of limiters.

OPTIONAL CHASSIS

The Inventhor Type 6 is available on a trailer or semi-trailer chassis with hydraulic self-propelled drive, or on a remote-controlled track-mounted chassis.





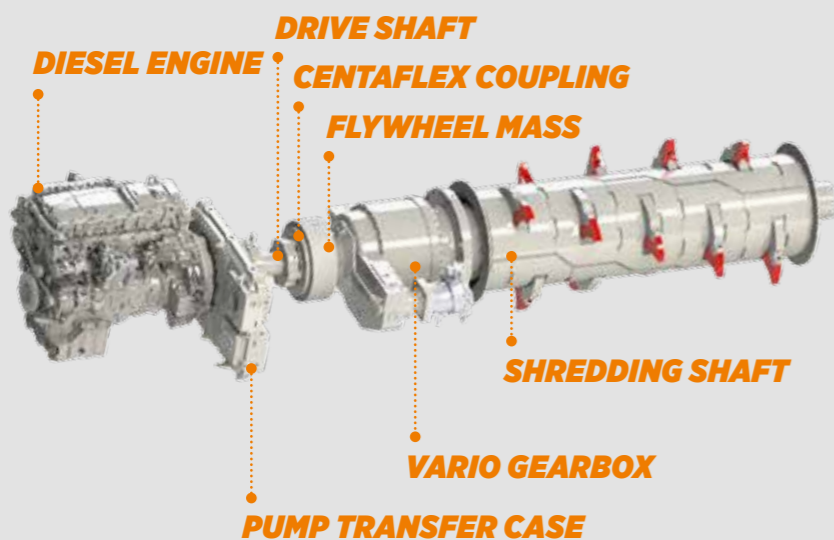
VARIODIRECT DRIVE

Getting down to business.

The patented direct drive handles literally all shredding jobs. The flexible VarioDirect Drive runs precisely even under the most difficult conditions with high power requirements.

NEW STANDARDS IN TERMS OF DRIVE

The VarioDirect Drive variably and continuously transmits torque to the shredding shaft, thus enabling entirely new, effective shredding. It impresses with its new reversing performance while loaded, with different speeds adapted to the material, which can be set with optimum torque independently of the diesel engine rpm, and the integration of different material-specific operating programs. This forward-looking drive concept thus provides all the functions of a hydraulic drive train while retaining the direct drive concept with its high efficiency, for which Doppstadt is well-known.



OVERVIEW OF KEY ADVANTAGES:

FLEXIBLE:

The shaft's direction of rotation can be reversed, even while working.

INTELLIGENT:

Automatic mode is disabled in case of overload.

ADAPTABLE:

The gearbox ensures a flexible speed range for the shredding shaft, regardless of the main drive.

SAFE:

Shredding stops promptly in the event of any problems.

READY TO GO:

The efficiency of directly driven shaft ensures higher efficiency compared to hydraulically driven shredding systems. In addition to that, the gearbox allows for re-start even under load.

ADJUSTABLE:

The gearbox enables the integration of various operating programs for different applications.

THE SHREDDING CONCEPT

Making short work of difficult jobs.

The Inventhor Type 6 is suited for shredding:

- waste wood
- green waste
- roots, stumps and logs
- construction and demolition waste
- commercial and industrial waste
- municipal solid waste

In order to successfully handle so many different tasks, we have further developed the advantages and technical characteristics of the DW series' proven shredding concept.

Shredding compartment: The feed hopper walls are steeper in relation to the shaft, ensuring that material can better enter the process. The space between the shredding shaft and under belt has been increased. The result: Improved discharge, better accessibility.

Comb bar: The wide-opening counter comb door makes it easy to access the shredding compartment and thus take out the entire comb bar. This ensures that all comb teeth can be replaced all at once. It also increases on-the-job safety and a fast re-start of the machine after completion of service work.

Limiter system & tools: Shredding tools and limiters can be replaced in a very short period of time. The wear part is separate from the suspension in the limiters' fastening concept.

Shredding shaft: The shaft can be rotated hydraulically to provide an optimal and easy tool replacement.





INSIDE INVENTHOR TYPE 6 **Packed with advantages to the minutest detail.**

The hydraulically driven **cooling system** automatically regulates the fan's speed in relation to the temperature. In addition, the large front hinged door ensures optimum access and makes the cooling system extremely easy to maintain.

The **further developed engine compartment** also ease maintenance and service work. Doors that are designed using lightweight GRP and which open upwards ensure optimum access to the entire engine compartment from both sides.

Depending on your requirements, you can choose between an **MTU engine with 354 hp** or a **more powerful Caterpillar engine with 421 hp**. These not only meet

the latest stage V emissions standard, but the CAT engine is also available in the Tier IVf and Euromot IIIA emissions standards.

The **optimized transfer case** provides several drives for the hydraulic pumps. The direct engine connection ensures that power is ideally transferred both to the connected hydraulic pumps and to the maintenance-friendly transfer case.

The ingenious **load-sensing system** ensures that the volume flow from the hydraulic pump is adapted to the required performance. This precisely metered flow of oil also reduces fuel consumption, since the machine only gets as much oil as it needs. The full functionality of the

hydraulic system can be leveraged at idle as well. The system also ensures a constant belt speed even when the engine speed fluctuates, while the auxiliary hydraulic system is reliably working thanks to the continuous volume flow being provided. Depending on job requirements, there are **several rear belt options** that are available. All versions (belt lengths 4.9 m and 7 m – both for semi-trailer and track-mounted chassis) can be adjusted steplessly in terms of height and speed. All belts are also equipped with a pressure monitoring system that can stop the shredding process when necessary.

The **simple operating concept** relies on a convenient and reliable 18-channel wireless remote control. In other words: The

interaction of these individual components allows for achieving new levels of throughput and efficiency.

That makes the Inventhor Type 6 a first-class mobile shredder.

Made by Doppstadt, made in Germany!



RECYCLING WITHOUT ANY DISTURBANCES.

The Inventhor Type 6 can be optimally combined as part of more complex shredding systems with rugged separation solutions like Doppstadt's Selector 800 with SWS 800 spiral shaft screening deck. Doing so allows you to effectively and efficiently separate materials right after the shredding process, e.g., of waste wood or biomass and generate a finished product practically in one step or line.

TECHNICAL SPECIFICATIONS

INVENTHOR TYPE 6 3-AXLE TRAILER CHASSIS SEMI-TRAILER CHASSIS TRACK-MOUNTED CHASSIS



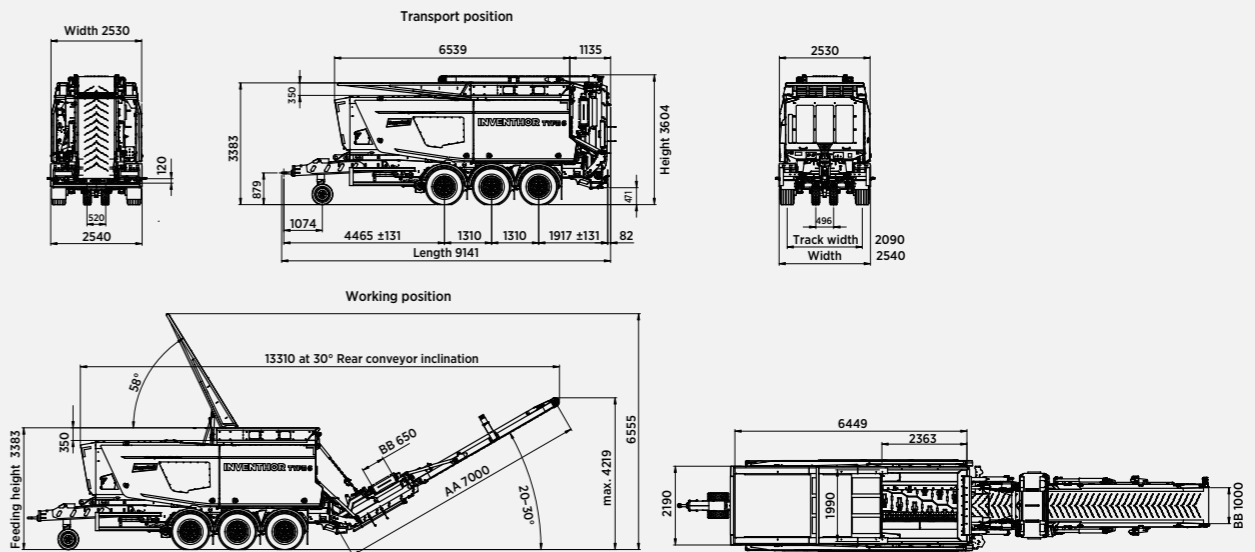
Overall weight	25,000 kg (depending on equipment configuration)		25,000 kg (depending on equipment configuration)		25,000 kg (depending on equipment configuration)	
Chassis	Central axle trailer chassis for 80 km/h, as per StVZO (Road Traffic Licensing Regulations), with ABS brake system		Semi-trailer chassis for 80 km/h, as per StVZO (Road Traffic Licensing Regulations), with ABS brake system		Track-mounted chassis for self-propelled drive, Two travel speeds	
Drive	Diesel engine		Diesel engine		Diesel engine	
Motor-Type: 1	CAT C9.3B		CAT C9.3B		CAT C9.3B	
Nominal output	310 kW (421 HP) at 1,800 rpm		310 kW (421 HP) at 1,800 rpm		310 kW (421 HP) at 1,800 rpm	
Emission standard	STAGE V / Tier IVf / EUROMOT IIIA		STAGE V / Tier IVf / EUROMOT IIIA		STAGE V / Tier IVf / EUROMOT IIIA	
Cubic capacity	9.300 cm ³		9.300 cm ³		9.300 cm ³	
Motor-Type: 2	MTU 6R1000 Daimler OM 936*		MTU 6R1000 Daimler OM 936*		MTU 6R1000 Daimler OM 936*	
Nominal output	260 kW (354 HP) at 1,700 rpm		260 kW (354 HP) at 1,700 rpm		260 kW (354 HP) at 1,700 rpm	
Emission standard	STAGE V		STAGE V		STAGE V	
Cubic capacity	7.700 cm ³		7.700 cm ³		7.700 cm ³	
Tank capacity	500 L		500 L		500 L	
Shaft/drum length	2,200 mm		2,200 mm		2,200 mm	
Shaft diameter	600/800 mm		600/800 mm		600/800 mm	
Shaft speed	-2 to 28 rpm		-2 to 28 rpm		-2 to 28 rpm	
Conveyor belt	Under belt	Rear belt	Under belt	Rear belt	Under belt	Rear belt
Width	800 mm	1,000 mm	800 mm	1,000 mm	800 mm	1,000 mm
Length	2,900 mm	4,900 mm/optional 7,000 mm	2,900 mm	4,900 mm/optional 7,000 mm	2,900 mm	4,900 mm/optional 7,000 mm
Discharge height		3,162 mm/4,219 mm		3,162 mm/4,219 mm		2,917 mm/3,967 mm
Conveying speed	1.3 to 2.9 m/s	1.25 to 3.0 m/s	1.3 to 2.9 m/s	1.25 to 3.0 m/s	1.3 to 2.9 m/s	1.25 to 3.0 m/s
Optional equipment	Oversize reduction "Limiter", shredder packages of size S, M, L or XL, hydraulic self-propelled drive, rear belt length 7 m, overbelt magnet, auxiliary hopper attachment panels, hopper wedge, water spraying system, winter package, LED light package		Oversize reduction "Limiter", shredder packages of size S, M, L or XL, hydraulic self-propelled drive, rear belt length 7 m, overbelt magnet, auxiliary hopper attachment panels, hopper wedge, water spraying system, winter package, LED light package		Oversize reduction "Limiter", shredder packages of size S, M, L or XL, rear belt length 7 m, overbelt magnet, auxiliary hopper attachment panels, hopper wedge, water spraying system, winter package, LED light package	

SHREDDING PACKAGES SHAFT WITH TEETH + COMB BAR + LIMITER (IF NECESSARY)

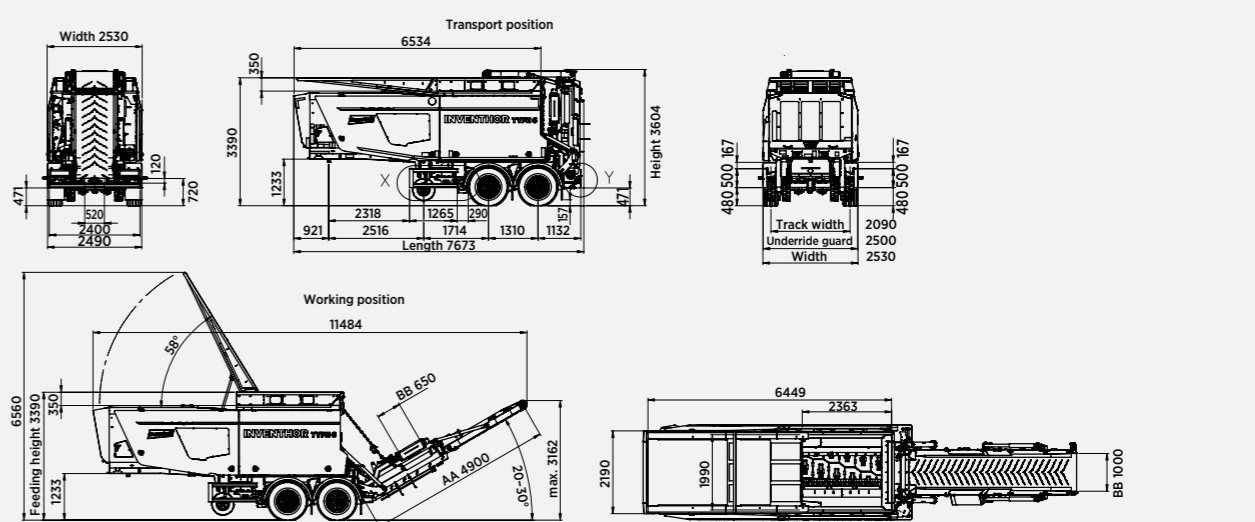
PACKAGE	SIZE XL (600)	SIZE L (600)	SIZE M (800)	SIZE S (800)
	on request			on request
Engine	CAT 310 kW	CAT 310 kW / MTU 260 kW	CAT 310 kW / MTU 260 kW	CAT 310 kW
Type		Shredding shaft with 30 (CAT only) or 20 teeth (14 comb teeth)	Shredding shaft with 72 teeth (2 comb plates)	
Diameter	600 mm	600 mm	800 mm	800 mm
Tooth length	170 mm	174 mm L / L-C3	100 mm	60 mm
Limiter		7 x Limiter L 600	9 x Limiter M 800	
Main areas of use	Heavy waste / waste wood	Green waste/waste wood/MSW/C+D/C+I waste/roots	Waste wood/limited special materials	Waste wood only

Limiter system available for all types of teeth - Limiter use in waste wood - only partially in other materials

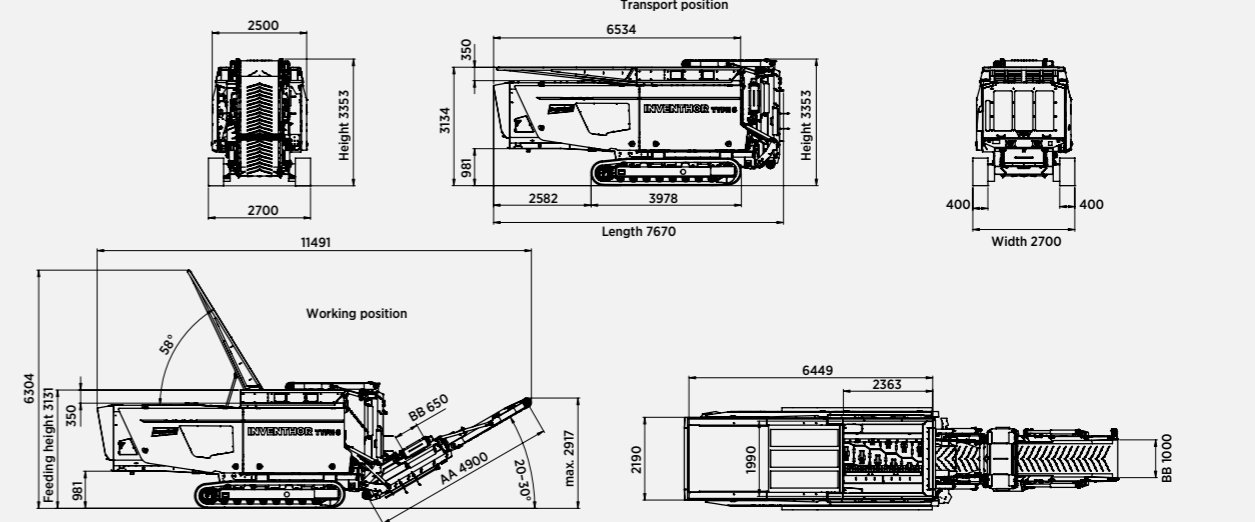
3-AXLE TRAILER CHASSIS



SEMI-TRAILER CHASSIS



TRACK-MOUNTED CHASSIS



* MTU engines are based on Mercedes-Benz's proven engine technology. As of August 2020 - Subject to changes. All dimensions shown in mm. The information is to be regarded as approximate. Figures and descriptions might include options or additional components that are not part of the standard equipment.



Breaks up more. Takes in more.

- modular, individual design
- great flexibility
- moderate operating costs, high machine uptime
- outstanding shredding capacity even with demanding applications
- excellent monitoring concept for shredding process
- maximum production rates
- quick re-start after maintenance and improved on-the-job safety
- lower specific fuel consumption and reduced noise emissions



[doppstadt.com](https://www.doppstadt.com)

Doppstadt Umwelttechnik GmbH

Steinbrink 13, 42555 Velbert
Germany

Phone +49 2052 889-0
info@doppstadt.de

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SLOW SPEED SHREDDER LINE



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Discover the many advantages of the largest mobile slow-speed grinder made by Doppstadt.

INVENTHOR TYPE 9

Innovation and technology for the future.

In the development of the INVENTHOR Type 9 we have leveraged the spirit of experience and innovation which has always been the company's hallmark. The result: A machine destined to set a new quality standard in the area of grinding technology.

NEW DEVELOPMENTS THAT MAKE A DIFFERENCE

The INVENTHOR Type 9 of our latest machine generation is based on the tried and trusted single drum principle used in the successful DW series and features a number of technological innovations. Among others, major changes affect a number of functional areas and components, such

as cooling unit, engine bay, material feed, grinding chamber and material discharge. Arguably the highlight is the off-the-shelf vario drive unit, VarioDirect Drive, which directly and continuously transmits power to the grinding drum and provides entirely new possibilities to further enhance efficiency and flexibility in the grinding process.

The grinding concept has also been thoroughly revised and updated at several key points, such as the grinding comb, which now has a comb flap that opens up to 120°. Overall, the grinding concept now ensures immediate machine availability following maintenance and service work and further improves operational safety.

SLOW SPEED SHREDDER LINE

The SLOW SPEED SHREDDER LINE encompasses all pre-grinding machines operating at low or high grinding speed. As it has become a distinctive feature of our company, our development approach focuses on solution-based thinking and puts the requirements and challenges of our customers in the center of attention.

Another valuable asset for the development of new machines is our extensive experience in the field of high-quality, forward-thinking recycling technology. All of this gives the INVENTHOR Type 9 the competitive edge over other grinding machines in this segment.

The new development of the entire drive train, the updated concepts for the infeed and grinding process, (including a stand-out monitoring concept), and the ability to tease out additional power reserves if so demanded by the grinding job make the INVENTHOR Type 9 a future-proof solution for almost all areas of application which easily handles a wide range of material requirements.

THIS IS DOPPSTADT

Doppstadt, the family-owned company based in Velbert, was founded in 1965. What started with the development of agricultural machines has turned into a leading worldwide solution and full-service provider in all areas of recycling/environmental technology and resource recovery.

„Best Solution. Smart Recycling.“ – under this motto we combine established procedures resulting in individual all-in-one solutions that distinguish themselves by innovative process workflows, maximum

efficiency and profitability. Especially in the field of water-based separation systems/wet recycling we can meet any requirements of our customers with flexible, tailor-made machines. From our company sites in Velbert, Wülfrath, Calbe and Wilsdruff, we serve customers in more than 40 countries, making use of our own dealer network and offering comprehensive services for all segments of the unique Doppstadt product range.

MACHINE-DETAILS



NEW COOLER DESIGN

Very efficient cooler geometry, right in front of the hydraulic, reversible cooler



NEW - PLUG AND PLAY

Easy machine operation concept facilitates routine work based on various program modes triggered at the touch of a button.



NEW - ENGINE COMPARTMENT

The available space has been optimized to provide easy access to all aggregates (e.g. engine components), the new transfer case with direct engine connection as well as to control systems such as Load Sensing.



NEW - FOLDABLE FEED HOPPER

Expands the feeding area and enhances the material feed process.



NEW - MATERIAL FEED AND GRINDING COMPARTMENT

The steep ascent of the feed hopper wall ensures maximum throughput rates. The flexible grinding concept based on various grinding packages allows for exact adaptation to the processing requirements of different materials.



NEW DRIVE CONCEPT

The new, patented VarioDirect Drive allows for continuous, variable power transmission directly to the grinding drum.



NEW CASING CONCEPT

For optimum accessibility, all doors open upwards. The GRP doors including vent slots efficiently reduce noise emission.



NEW - COMB FLAP

The comb flap opens up to 120°, providing easy access to the entire grinding compartment. It also further improves operational safety and ensures immediate machine availability following maintenance and service work.

NEW - REAR CONVEYOR OPTIONS

Using the new overall mounting unit different rear system configurations may be applied and easily exchanged. Thanks to selectable conveyor length variants, a great range of drop heights can be realized as well as continuously adjustable conveyor inclinations.



NEW - CHASSIS OPTIONS

Two chassis options are available for the INVENTHOR Type 9: semi-trailer configuration incl. travel drive and track-mounted configuration (remotely controlled).





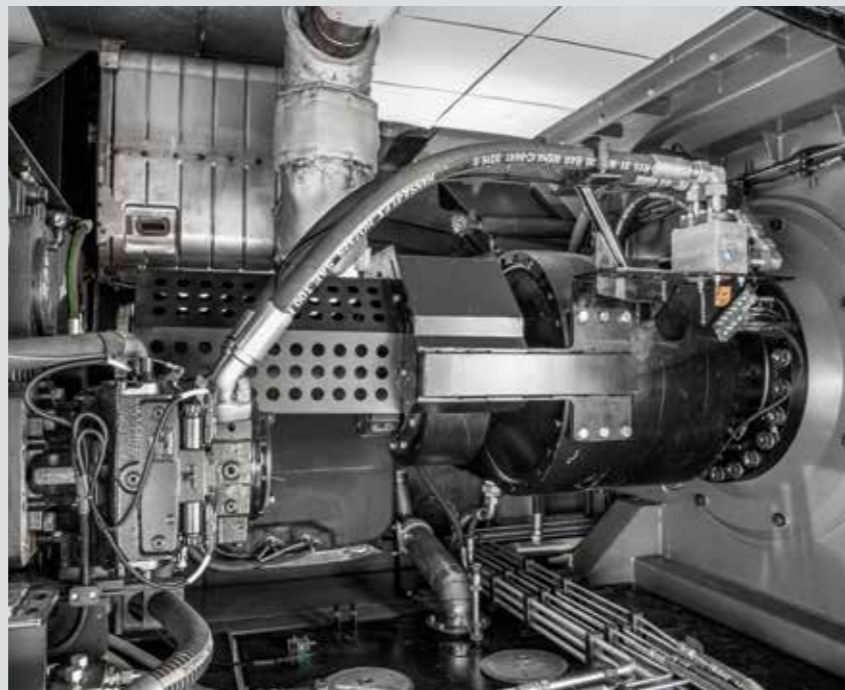
VARIODIRECT DRIVE

The new gear generation.

The new, patented gear system is able to cope with almost any grinding task. Even in difficult circumstances and when high requirements are put on the material, the tremendously flexible VarioDirect Drive operates at maximum efficiency.

SMART AND FLEXIBLE

The future-proof drive concept leaves nothing to be desired: The VarioDirect Drive stands out for a new reversing behavior towards the material, material-dependent rotational speeds and the inclusion of several material-specific modes of operation.



THE GRINDING CONCEPT

Proven and still improving.

The INVENTHOR Type 9 is used for on-site volume reduction, primary size reduction following homogenization in bio-mechanical treatment and recycling plants, for waste wood treatment and the homogenization process in thermal waste treatment. To satisfy such a variety of requirements, we have refined and enhanced the advantages and technical

qualities of the proven grinding concept applied in the DW series.

Grinding compartment: The steeper ascent of the drum walls in relation to the roller enhances the sliding ability of the material along the smooth side walls. The gap between grinding drum and lower band conveyor has been enlarged, resulting in reduced clogging

and better overall accessibility.

Grinding comb: Thanks to the comb flap which opens up to 120° the access to the grinding compartment has been made much easier which also enhances both operational safety and machine availability even after service work.

Limiter system & tools: A quick change of the grinding tools and limiters can be carried out with just a few motions. A new mounting concept for the limiters called for the separation of the wearing part from the suspension.

Grinding roller: The roller can be removed in an upward direction without having to apply slings. It is also possible to hydraulically turn the roller in order to change tools in an easy way.





INVENTHOR TYPE 9: A CLOSER LOOK

Efficient, flexible, performance-oriented.

Apart from the revolutionary **Vario-Direct Drive** and the updated grinding concept the INVENTHOR Type 9 combines a number of powerful components in an outstanding, future-proof machine solution Made in Germany. The interaction of the individual components results in **unprecedented throughput** rates and positions the INVENTHOR as a one-of-a-kind roller-based grinding system in the market.

The **new cooler** is hydraulically propelled and automatically regulates rotational speeds. In addition, a large frontal, upward-opening door ensures easy accessibility, making the cooler extremely maintenance-friendly.

The **further development of the engine compartment** makes maintenance and service work in this part of the machine easier. GPR-made, upward opening doors provide comfortable access to the entire engine compartment from either side. The space-efficient, well-organized positioning of the drive chain allows for easy accessibility of individual components and aggregates.

The **530 PS (ca. 522 HP) diesel engine** is fully compliant with exhaust emission standards Euromot IIIA and Euromot IV / Tier 4. From 2019, it will also comply with the requirements of emission category V.

The **enhanced transfer case** provides several outputs for hydraulic pumps. Because of the direct engine connection, a v-belt drive is not required. As a result, power is transmitted to the connected hydraulic pumps in a most efficient way, and the transfer case is extremely maintenance-friendly.

Thanks to the clever **Load Sensing system**, the flow rate of the hydraulic pump are perfectly adjusted to the requirements of the electrical consumer. This has the effect that the full function of the hydraulic system is available even at idle-running. Moreover, the system also ensures constant conveyor speeds when engine speeds

vary, while the additional hydraulic system is able to operate steadily thanks to the constant volume flow provided.

Depending on operational requirements, there are **several rear conveyor versions** to choose from (length 8.5 m for semi-trailer/track-mounted option, 7 m for semi-trailer/track-mounted option, 12 m stiff rear conveyor for the track-mounted option), all of which can be continuously height-and speed-adjusted. The **easy operational concept** is based on a comfortable, reliable 18-channel radio remote control.

New drive concept – new standards.

The INVENTHOR Type 9 is a genuine jack of all trades. This is not just due to the smart grinding concept and the many technology updates and enhancements – it is also owing to the many advantages of the new VarioDirect Drive:

MOBILE:

During operation, the running direction of the roller may be reversed.

SMART:

In the case of overload, automatic operation will be abandoned.

ADAPTIVE:

The drive unit allows for variable rotational speeds of the grinding roller.

SECURE:

In the case of malfunctioning, grinding operations are immediately abandoned.

POWERFUL:

The drum roller may be turned down to an almost complete standstill at idle-running so that the machine can also be started on-load.

FLEXIBLE:

The gear allows for the inclusion of various modes of operation.

TECHNICAL DETAILS

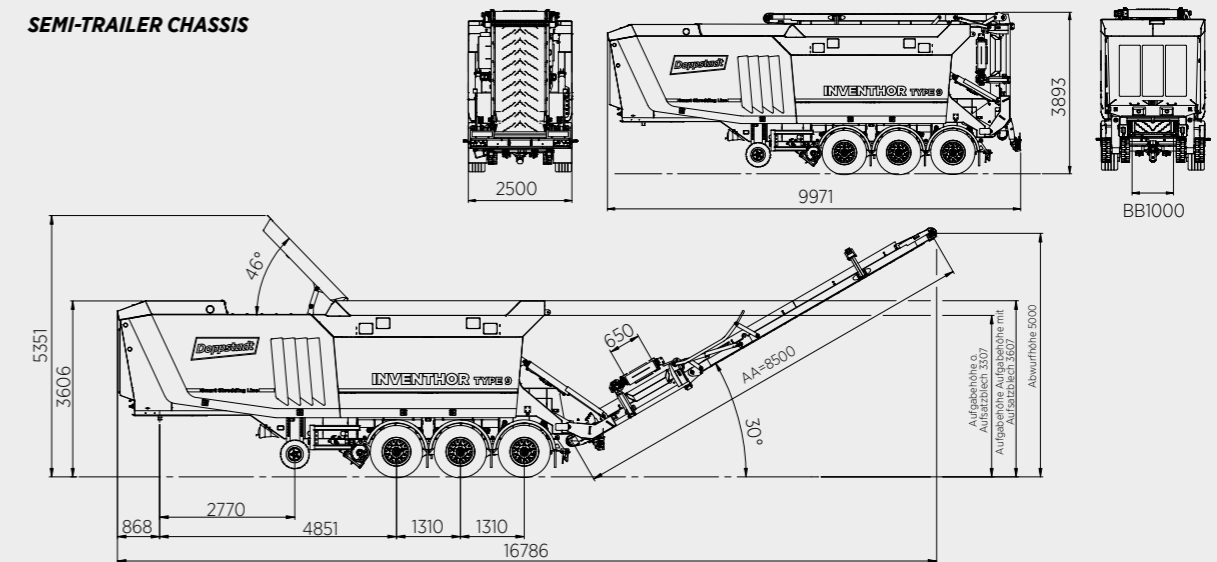
INVENTHOR TYPE 9 SEMI-TRAILER CHASSIS TRACK-MOUNTED CHASSIS



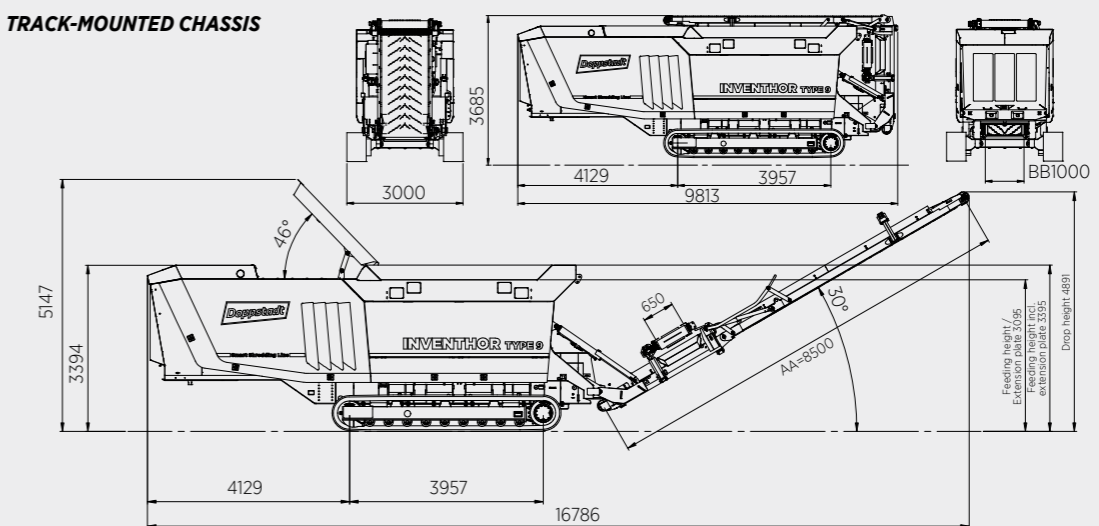
Total Weight	32,000 kg	35,000 kg
Chassis	Center-axle trailer chassis Approved for 80 km/h, according to Road Traffic Licensing Regulations, incl. ABS	Track-mounted chassis for independent driving, two driving speeds
Drive	Diesel engine	Diesel engine
Type	MTU 6R1300*	MTU 6R1300*
Nominal Output	390 kW (522,75 HP) at 1,800 min ⁻¹	390 kW (522,75 HP) at 1,800 min ⁻¹
Exhaust Emission Standard	EUROMOT IIA or EUROMOT IV/Tier 4	EUROMOT IIA or EUROMOT IV/Tier 4
Cubic Capacity	11,970 cm ³	11,970 cm ³
Filling Capacity (Tank)	950 l	950 l
Roller Drum Length	3,000 mm	3,000 mm
Roller Diameter	600 / 800 mm	600 / 800 mm
Roller Rotational Speed	- 5 to 32 min ⁻¹	- 5 to 32 min ⁻¹
Conveyor Belt	Lower Conveyor Belt Rear Conveyor Belt	Lower Conveyor Belt Rear Conveyor Belt
Width	1,000 mm 1,200 mm	1,000 mm 1,200 mm
Length	4,450 mm 8,500 mm	4,450 mm 8,500 mm
Drop Height	5,050 mm	4,890 mm
Conveying Velocity	1.3 to 2.9 m/s to 2.0 m/s	1.3 to 2.9 m/s to 2.0 m/s
Additional Equipment	Fine grinding system „Limiter“, grinding packages Sitze M, S or XL, hydraulic traction drive, rear conveyor length: 7 m, overhead magnetic system, folding hopper, hopper extension plates, moisturization system, winter package, LED lighting package.	Fine grinding system „Limiter“, grinding packages Sitze M, S or XL, rear conveyor length: 7 m, rear conveyor (rigid): 12 m, overhead magnetic system, folding hopper, hopper extension plates, moisturization system, winter package, LED lighting package

*MTU engines based on proven engine technology by Mercedes-Benz. As at December 2018 - subject to modifications. All indicated dimensions in mm. Specifications are to be considered approximate. Illustrations and descriptions may contain additional or special equipment not included in standard shipment.

SEMI-TRAILER CHASSIS



TRACK-MOUNTED CHASSIS



Standard Configuration

Grinding system Variomat Size L, 42 roller teeth, 174 mm C, armored comb tooth, wireless remote control, additional hydraulic connection (40 l/min or 70 l/min), rear conveyor length: 8,5 m, telematics system



GRINDING PACKAGES ROLLER INCL. TEETH + TOOTH STRIP + LIMITER (IF REQUIRED)

PACKAGE	SIZE XL (600/4)	SIZE L (600/4)	SIZE M (800)	SIZE S (800)
Type	Grinding Roller equipped with 28 teeth	Grinding Roller equipped with 42 teeth	Grinding Roller equipped with 100 teeth	Grinding Roller equipped with 145 teeth
Diameter	600 mm	600 mm	800 mm	800 mm
Tooth height	170 mm	174 mm	100 mm	60 mm
Limiter	15 x Limiter XL 600 (15 comb teeth)	20 x Limiter L 600 (20 comb teeth)	24 x Limiter M 800 (24 comb teeth)	30 x Limiter S 800 (30 comb teeth)
Core application areas	heavy waste / old growth	green waste / old growth / waste / roots	old growth / bulky waste (limited)	old growth only

Limiter system available for all tooth types
Limiter to be used with old growth – only limited use with other materials



December 2018

Setting new standards for the recycling process

- high flexibility thanks to a variety of grinding systems to choose from
- outstanding power reserves for the most demanding requirements
- immediate machine availability after service work and improved operational safety
- high-quality, future-proof technology
- reduced noise emission
- sophisticated monitoring of the entire grinding process
- maximum throughput rates

Doppstadt

Werner Doppstadt
Umwelttechnik GmbH & Co. KG
Steinbrink 13, 42555 Velbert
Deutschland

doppstadt.com

Telefon +49 2052 889-0
info@doppstadt.de

Doppstadt

METHOR

SLOW SPEED SHREDDER LINE



Best Solution. Smart Recycling.

[doppstadt.com](https://www.doppstadt.com)





THE METHOR

The definition of flexibility.

With the Methor, Doppstadt takes a new approach! It is the first shredder that we have designed for processing several materials containing very different waste fractions (e.g. wood, commercial waste, green waste as well as construction and demolition waste). At the same time, it includes all the advantages of our larger shredders, offering the uncompromising quality of Doppstadt's high-performance technology.

RESPONDING FLEXIBLY TO EVERY TASK
Processing small volumes efficiently is a real challenge. Anyone who generally has had to handle small volumes, particular batches or materials that change fre-

quently will agree. At Doppstadt, we have made it our task to deliver a solution. The result is the Methor: a shredder that has been developed from scratch and which is distinguished by:

- maximum flexibility
- reliable performance
- good resistance against extraneous material
- easy to use

This ensures that you are well equipped for tasks that were previously very difficult, if not impossible, for professional shredding solutions to handle.

RETHINKING SHREDDING PRACTICES
The objective pursued while designing the Methor was to develop the most flexible single-shaft shredder in the world – without compromising improved uptime, resistance to wear or even performance! That is why we have redesigned the entire system concept. Starting with the horizontally installed shredding shaft and a much simplified material feed and discharge system through to HydraulicDirect Drive system, which delivers an ideally metered output without gearbox. The result is a machine that is equally well suited for all conceivable applications in the waste disposal and recycling industries. For small to medium-sized companies as well as operations that do

not typically have their own shredder yet, the Methor ensures efficiency and flexibility for economically shredding, even special batches, for instance.

SIMPLY A SMARTER SETUP
Its modular design makes a decisive contribution to the Methor's flexibility. Every machine is literally built on the basis of a modular system: As core component, the shredding system is the only component that is the same in every unit. By changing the shaft, the system can be retrofitted to four different tooth sizes within 60 minutes. Everything else, from drive system to carrier version as hook lift arrangement or with tracks, can be customized to suit

your individual requirements and equipped with precisely engineered options. In other words, the Methor demonstrates maximum adaptability, even in terms of site of use.

THIS IS DOPPSTADT.

The family owned business Doppstadt with headquarters in Velbert, Germany, was founded in 1965. While the company focused in the beginning on the development of agricultural machinery, Doppstadt is now a leading internationally active solution and full-service provider in all areas of environmental technology and recycling. "Best Solution. Smart Recycling." – in line with this slogan, we combine proven processes to create complete individual solutions that are distinguished by innovative process operations, maximum efficiency and optimum economic viability. Especially in the fields of water-based separation systems and wet recycling, we impress our customers with our flexible systems designed to handle every challenge. From our locations in Velbert, Wülfrath, Calbe and Wilsdruff, we serve customers in more than 40 countries with our own network of authorized dealers, offering comprehensive services that cater to Doppstadt's unique portfolio.

MACHINE DETAILS



OPERATING CONCEPT

The Methor has an intuitive control panel, the core functions of which can also be implemented via a wireless remote control. The system can also be used to set up a WiFi hotspot, allowing it to be monitored and evaluated using any browser installed on an internet-enabled device.



SMART HOPPER

Large feed area with tipping hopper. Material feed is controlled automatically in relation to the load of the shredding shaft. In conjunction with the hydraulic drive, it allows a shredding with an optimal load torque curve and corresponding efficiency.



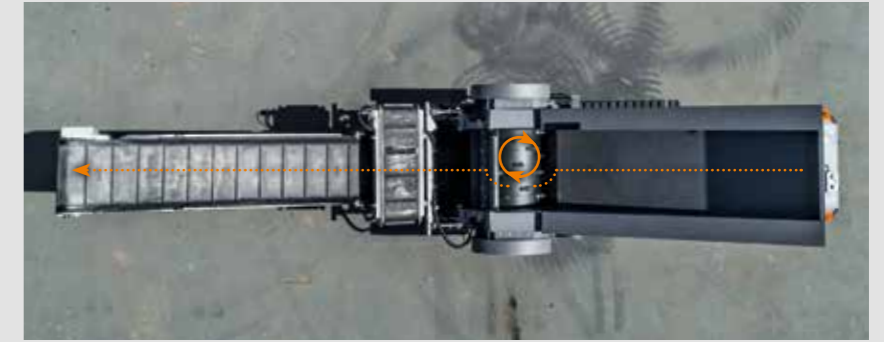
HYDRAULIC DIRECT DRIVE

This fully hydraulic drive delivers an optimum torque to the shaft and allows the implementation of any engine. The system utilizes the hydraulic pump's intelligent control system to flexibly respond to any blockage.



OPTION: HEIGHT-ADJUSTABLE OVERBELT MAGNET

Its angle is adjusted hydraulically or with the aid of threaded rods, it can also remain in the transport position of the machine's belt.



FLUENT PROCESS

To ensure outstanding process reliability, input materials are shredded and discharged in the belt's direction of conveyance. The shredding compartment is designed in such a way that it operates with a conveyor belt without an articulated and under belt. That also simplifies assembly and disassembly.



COOLING CONCEPT

The hydraulic unit has its own cooling system, which is independent of the drive system. The fan is driven hydraulically. It is designed for a maximum blockage (obstruction) of up to 50 % of the area and its rotational speed is regulated in relation to the system's temperature. As a result, it can be used at an ambient temperature of up to 48 °C.



SHAFT DRIVE AND SUPPORT

The shaft is driven by slow speed radial piston pumps with high torque. They achieve a high degree of efficiency and minimal loss of power without requiring a gearbox. The shaft is supported by truck tires, which also allows for a quick switchover (approx. 60 minutes).



OPTION: AUXILIARY CHASSIS & DRAWBAR

For the mobile hook lift Methor, there is an auxiliary chassis available with rugged solid rubber tires and drawbar. That makes it easy to move the machine around on site by lifting it up via hydraulic rams.



EASY ACCESS CONCEPT

All drive and hydraulic components are optimally ventilated and can be easily ground accessed via the large door panels.



OPTION: HYDRAULIC QUICK COUPLERS

For a quick and leak-free removal of the shaft, the Methor can be equipped with hydraulic quick couplers that can be released without tools.



SHAFT DESIGN

The shafts utilize our tried-and-tested Dopp-Lock® system and are designed with emphasis placed on cost and weight optimization. The shredding shafts are available with tooth sizes XL, L, M and S.

MODULAR DESIGN

The Methor is available on a hook lift frame, on tracks or as a stationary system. While it is factory-equipped with a diesel engine or an electric motor, it is also possible to integrate any other drive.





THE HYDRAULICDIRECT DRIVE **Delivers the power you need.**

The Methor's drive train is just as important as the shredding system. The innovative HydraulicDirect Drive ensures that operation is flexible, powerful and efficient. At the same time, it allows the system to quickly respond to extraneous material, thus protecting itself.

CONTROLLED POWER

The HydraulicDirect Drive transfers the torque to the shredding shaft via two radial piston pumps without a gearbox. As a result, the shaft can be operated at up to 34 revolutions per minute and a torque of 75,200 Nm. Control is handled proportionally via the pump pressure: If the load on the shredder mechanism increases, the pump switches to reverse.

Doing so continuously optimizes the load torque on the drive, which has a positive impact on consumption and wear and tear. In addition, pump pressure is also used to regulate the supply of material via the feed hopper.

RESPONDING QUICKLY TO RESISTANCE

If there is extraneous material blocking the shredding mechanism, the pump automatically switches via neutral to reverse without delay. After briefly running in reverse, it switches back again to the direction of operation. If pressure builds up again, it will reverse for a longer period. That is how the system automatically overcomes any obstructions or blockage and protects the drive from damage.

CONNECTED IN EVERY RESPECT

The Methor's control system communicates exclusively with the hydraulic pump, which is equipped with speed and pressure sensors. As a result of the system design, the Methor may also be easily integrated into existing operational processes. Of course, the main drive of systems with factory-installed engines can also be started using the control system, which will also regulate the drive's speed.



SMART PARTNER FOR COMBINING.

The Methor is ideally suited for setting up high-performance process chains when combined with other Smart Solutions from Doppstadt. Based on material throughput, it can be optimally combined, e.g., with the Airflex 1500 air-based separator, the 518 FLEX drum screening machine or the Selector 400 with SWS spiral shaft screening deck.



SIMPLY WELL-DESIGNED The Methor takes care of all your needs.

The Methor's uniquely flexible and powerful machine concept opens up a wide variety of possible application areas: It is also suited for **container services**, which are dealing with shredding for the first time. Even **smaller recycling facilities** can benefit from utilizing the Methor, for instance, in combination with screening and air-based separation systems, rolling out a full-fledged, mobile processing system.

For **smaller sites**, it ensures efficiency and flexibility in processing many different materials. After all, it can be incorporated into more complex systems or implemented specifically to reduce the load on the main machine during peak hours. Its mobility also allows it to be used as a

standby solution that can be moved to a site whenever operations require it.

Thanks to the Methor's **extremely rugged design**, it is not picky in terms of the materials that it can process:

- **construction and demolition waste**
- **waste wood**
- **commercial and industrial waste**
- **green waste**

With the corresponding equipment, it can even handle ropes from paper and plastic production as well as shred rolls or rolled goods, mattresses and recycling bags.

The Methor shows its true potential when it is working: It is designed for maximum **durability and operational reliability**. The formula for smooth, trouble-free operation involves rugged components, an intuitive operating concept, a drive system that quickly responds to obstructions and easy access to all areas where maintenance is important.

Which one is your Methor? We will be glad to advise you!

One of the major advantages offered by the Methor is its well-thought-out **modular design**. That ensures the Methor can be precisely adapted to your requirements.

CARRIER OPTIONS:

The Methor is available as hook lift machine or on tracks. There is also a version available for stationary installation, which only includes the shredder with feed hopper.

DRIVE SYSTEMS:

Both a diesel engine with 205 kW and an electric motor with 200 kW are available by default as primary drive units. The hydraulic drive is also equipped with speed and pressure sensors. That also enables you to operate the Methor's HydraulicDirect Drive using other external engines.



SHREDDING SHAFT:

Shafts with a total of four tooth sizes make sure that the Methor's shredding system can be precisely adapted to the material to be processed.

CONTACT US!

To make the Methor the right shredding solution for your requirements, we would be very happy to advise you! Contact your local Doppstadt sales partner. You can find one under Contact at doppstadt.de.

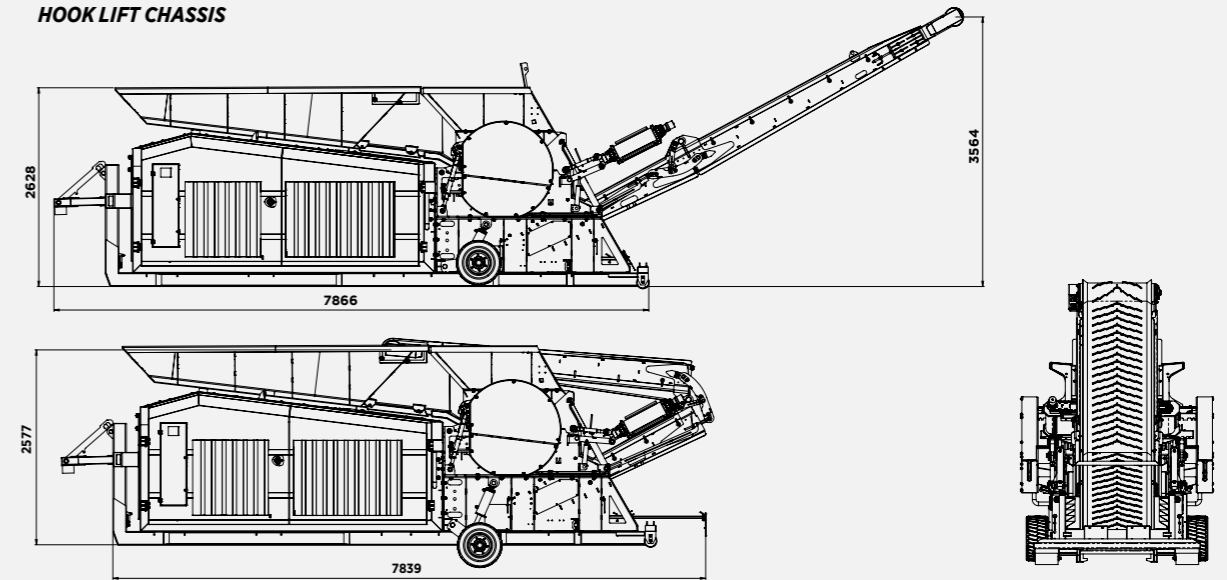
TECHNICAL SPECIFICATIONS

METHOR	HOOK LIFT CHASSIS	TRACK-MOUNTED CHASSIS
		
Overall weight	13,400 kg	15,700 kg
Chassis	Hook lift	Track-mounted
Drive	Diesel engine	Diesel engine
Type	Caterpillar C 7.1	Caterpillar C 7.1
Nominal output	205 kW/278 HP	205 kW/278 HP
Emission standard	STAGE V	STAGE V
Cubic capacity	7.1 L	7.1 L
Fuel tank capacity	300 L	300 L
Shaft diameter	600 mm for XL/L, 800 mm for M/S	600 mm for XL/L, 800 mm for M/S
Shaft speed	max. 33 rpm	max. 33 rpm
Rear belt width	1,000 mm	1,000 mm
Rear belt length	6,900 mm	6,900 mm
Discharge height	3,564 mm	4,059 mm
Conveying speed	adjustable 1 m/s to 4 m/s	adjustable 1 m/s to 4 m/s
Optional equipment	Water spraying system, work lighting, Electric hydraulic pump, auxiliary hydraulic shredder packages Size XL, L, M or S, fire extinguisher, overbelt magnet, drawbar, auxiliary chassis	Water spraying system, work lighting, Electric hydraulic pump, shredder packages Size XL, L, M or S, fire extinguisher, overbelt magnet

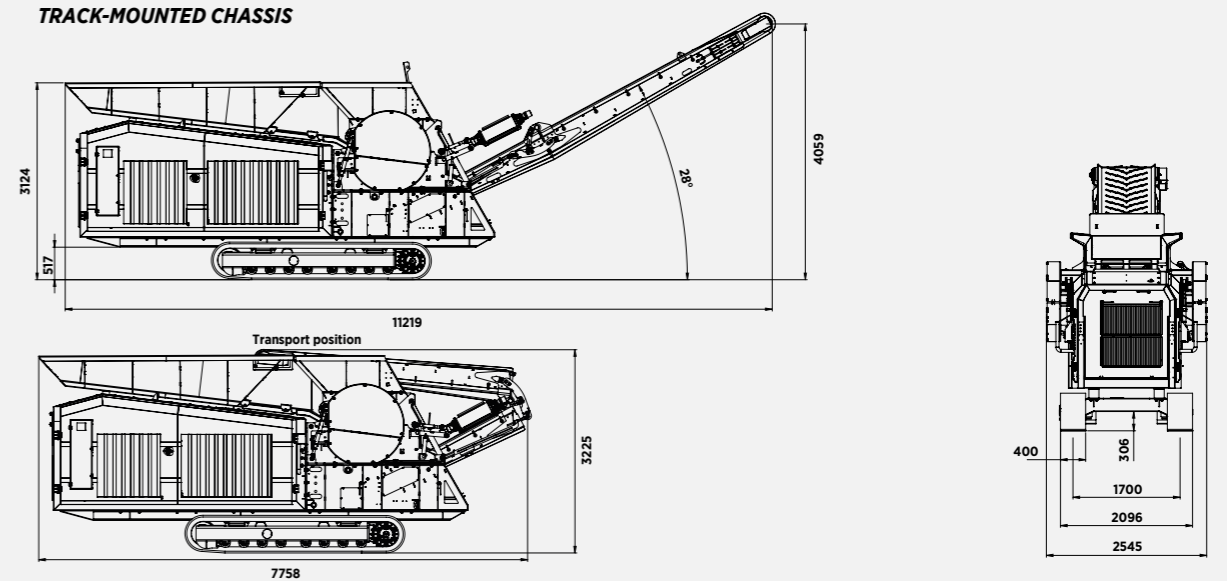
As of May 2020 - Subject to changes. All dimensions shown in mm. The information is to be regarded as approximate. Figures and descriptions might include options or additional components that are not part of the standard equipment.



HOOK LIFT CHASSIS



TRACK-MOUNTED CHASSIS



SHREDDING PACKAGES

PACKAGE	SIZE XL (600)	SIZE L (600)	SIZE M (800)	SIZE S (800)
				
Type	Shredding shaft with 6 teeth	Shredding shaft with 8 teeth	Shredding shaft with 26 teeth	Shredding shaft with 36 teeth
Diameter	600 mm	600 mm	800 mm	800 mm
Tooth length	170 mm	174 mm	100 mm	60 mm



May 2020

Masters every task. Worth every penny.

- machine concept geared to deliver maximum flexibility
- only single-shaft shredder in its class
- efficient shredding solution for smaller volume flows and special batches
- unique quick tool replacement
- HydraulicDirect Drive to ensure a smooth and high production and operation that meets your needs



Doppstadt Umwelttechnik GmbH
Steinbrink 13, 42555 Velbert
Germany

doppstadt.com

Phone +49 2052 889-0
info@doppstadt.de

Doppstadt

CERON

TYPE 206 . 256 . 306 . 308

SLOW SPEED SHREDDER LINE



Best Solution. Smart Recycling.

doppstadt.com





The new generation: The perfect combination of high quality technology, high efficiency and long service life.

THE CERON SERIES

Proven principle meets state-of-the-art technology

When it comes to pre-shredders, we are setting new standards with the CERON series. Every detail of Doppstadt's new generation machines reflects more than 50 years of experience and our typical passion for innovative and customer-oriented solutions.

RUGGED, FLEXIBLE AND EFFICIENT

With these characteristics the new generation of CERON single-shaft shredders handles the most demanding challenges arising in the shredding of household waste, bulky waste, commercial waste, construction and demolition waste, waste

wood, roots, green waste and much more. Like all machines of our Slow Speed Shredder Line, the new family also operates on the basis of our proven single-shaft principle. In combination with the hydraulically controlled shredding comb and the flexibly mounted limiter elements, the system is impervious to many obstructions, while ensuring at the same time the usual excellent output quality.

POWERFUL AND IN LINE WITH DEMAND

Thanks to an unmatched range of model variations and equipment options, the CERON series

offers ideal solutions for almost every material requirement. The series impresses with its innovative technology and intelligent drive concept.

The AC motor in combination with the latest frequency converter technology not only enables the machine to started-up under full load but also to set the rotary speed of the shaft in order to optimally suit every individual process requirement.

CONVENIENT AND EASY TO MAINTAIN

For us, ease of use and a high level of user comfort is not optional but rather a mandatory integral element of all our solutions.

Proven construction methods such as the modular design of our machine components, the patented Dopp-Lock® system or our new Easy Access Concept make Doppstadt machines the unmatched front runners in terms of ease of maintenance and service. This is especially the case for CERON machines, which are tailored for durability.

THIS IS DOPPSTADT

Doppstadt, a family owned company based in Velbert (near Düsseldorf), was founded in 1965. Initially a producer of agricultural machines, Doppstadt has become a leading global supplier of solutions and services in all areas of recycling/environmental technology and resource recovery.

'Best Solutions. Smart Recycling.' True to this motto, we combine proven processes technology into individual solutions that are hallmarked by innovative concepts, maximum operational efficiency and cost-effectiveness.

With sites in Velbert, Wülfrath and Calbe, we serve customers in more than 40 countries through our own dealership network and offer a wide range of services to support the unique Doppstadt product portfolio.



HIGH VERSATILITY

Optimum results in many areas of application

The powerful drive system, the wear-resistant shaft and comb teeth as well as the diverse equipment variations and a wide range of tooth shapes, machine frames and discharge conveyor belts provide you with the necessary flexibility for all typical pre-shredding tasks to satisfy a broad spectrum of recycling requirements.

Material density, surface properties, hardness and moisture content are very different for green waste, waste wood, or commercial waste. The CERON concept is designed for the entire spectrum allowing you to get the best results in all three cate-

gories. The machines are especially flexible due to the different combination options with system components for feeding the CERON or for discharge of product material.

OPTIMALLY ADAPTABLE TO ALL PROCESSES.

GREEN WASTE

The CERON series ensures a homogeneous material structure when pre-treating green waste to produce compost. Plant material is uniformly disintegrated to allow best conditions for further processing.

WASTE WOOD

Uniform shredding is crucial for optimally preparing waste wood for further processing. The CERON breaks the material up into uniform pieces, thus ensuring good homogenization.

COMMERCIAL / RESIDENTIAL / BULKY WASTE

These types of waste contain a wide variety of materials that have to be separated with the greatest possible precision for further processing. When pre-treating with the CERON, the material is fragmented in such a way that it is optimally suited for the subsequent separation process.

THOROUGH SHREDDING

One series – Universally usable



GREEN WASTE



WASTE WOOD



COMMERCIAL WASTE

In-depth overview of innovations and advantages



NEW MACHINE HOUSING

A central wing door ensures convenient access to the drive, gearbox, cooling and central lubrication systems. Maintenance work can thus be carried out more efficiently. The safety interlock system prevents doors from being opened during ongoing operation.

NEW OPERATION ASSISTANT

An integrated assistant supports the operator in controlling with pre-programmed standard processes. With the aid of the touch screen, operation is even more intuitive and easier.



NEW FEED HOPPER

The optional feed hopper can be moved steplessly. In the case of the smallest model Ceron type 206 the feeding width is increased from 2.7 m without hopper to over 6.5 meters.



MATERIAL FEED AND SHREDDING CHAMBER

The walls of the feed hopper have a steeper angle, thus ensuring a maximum throughput thanks to optimum intake characteristics. As a result of the flexible shredding concept and the selection of different sizes and options, the CERON can be optimally adapted to the different material requirements.



NEW DRIVE CONCEPT

The AC motor delivers maximum performance and has enough power reserves to start under load. It is protected from damage by a large disk flywheel and a safety coupling that disconnects power transmission to the gearbox in case of a major contamination.



HYDRAULIC COMB

The hydraulically actuated shredding comb controls the distance between comb and shaft thus is able to clean the shaft when it is wrapped in film or wire. It also opens up the comb to allow massive solid objects through without damage, in which case the discharge belt can reverse direction to remove the contamination from the process.



NEW COOLING SYSTEM

The cooling system is controlled according to demand. The fan is only switched on at a higher operating temperature, which in turn optimizes the energy efficiency of the machine and ensures that the hydraulic oil quickly reaches operating temperature.

COMB MAINTENANCE HATCH

The maintenance flap allows easy access to wear parts on comb and shaft. When the flap is fully open, an anti-slip platform on the inside is perfectly straight and allows for a comfortable working position. To reach all teeth on the shaft, the latter can be rotated in inching mode. Teeth on comb and shaft are both fixed via the interlocking Dopp-Lock® system.





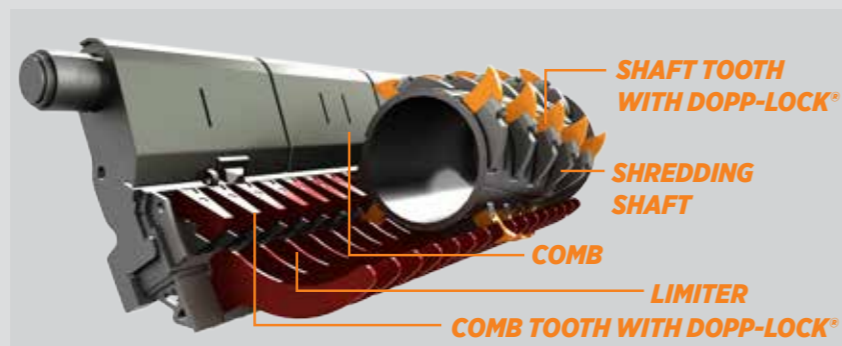
THE SHREDDING CONCEPT

Proven system – Consistently further developed

During the shredding process, the material is torn and ripped apart between the rotating shaft teeth and the stationary toothed counter comb. The working pressure of the comb and therefore the maximum counterforce can be set as well as the distance between comb and shaft, according to input material and processing aim. A lower set pressure leads to earlier opening of the comb and removal of more potential contamination. The counter comb gives way as a result of a pressure load peak due to hard solid bodies not just preventing damage to the machine but also reducing unnecessary size reduction of cer-

tain objects like for example metal fittings of furniture in waste wood. A wide variety of shredding systems are available to provide the right solution for every input material. The shredding tools are made of highly wear resistant cast iron with hard facing or forged steel to pro-

vide you with the benefit of a long service life. Another advantage: As with individual elements, the entire shredding system can quickly and easily be changed. The shredding tools are changeable in no time at all thanks to the patented Dopp-Lock® system.



CHANGING LIMITER ELEMENTS

Tool-free, simple, cost-saving

The CERON is optionally equipped with "Limiter" elements which prevent oversized pieces of material from falling down onto the discharge conveyor but instead returning them back up to the comb for additional size reduction.

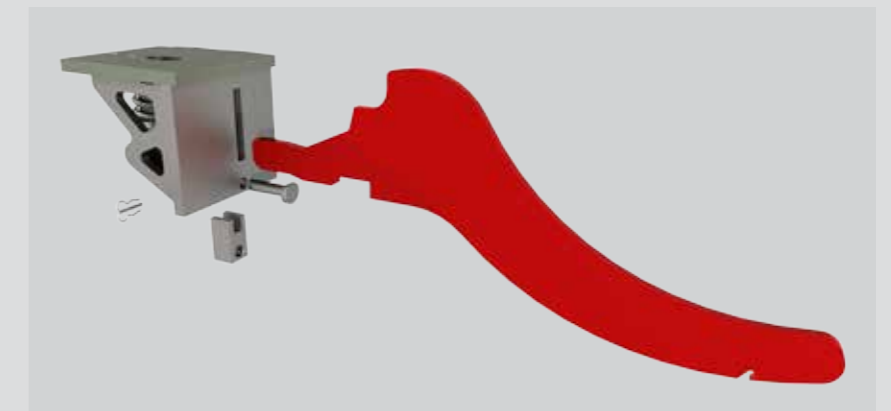
PRACTICAL AID

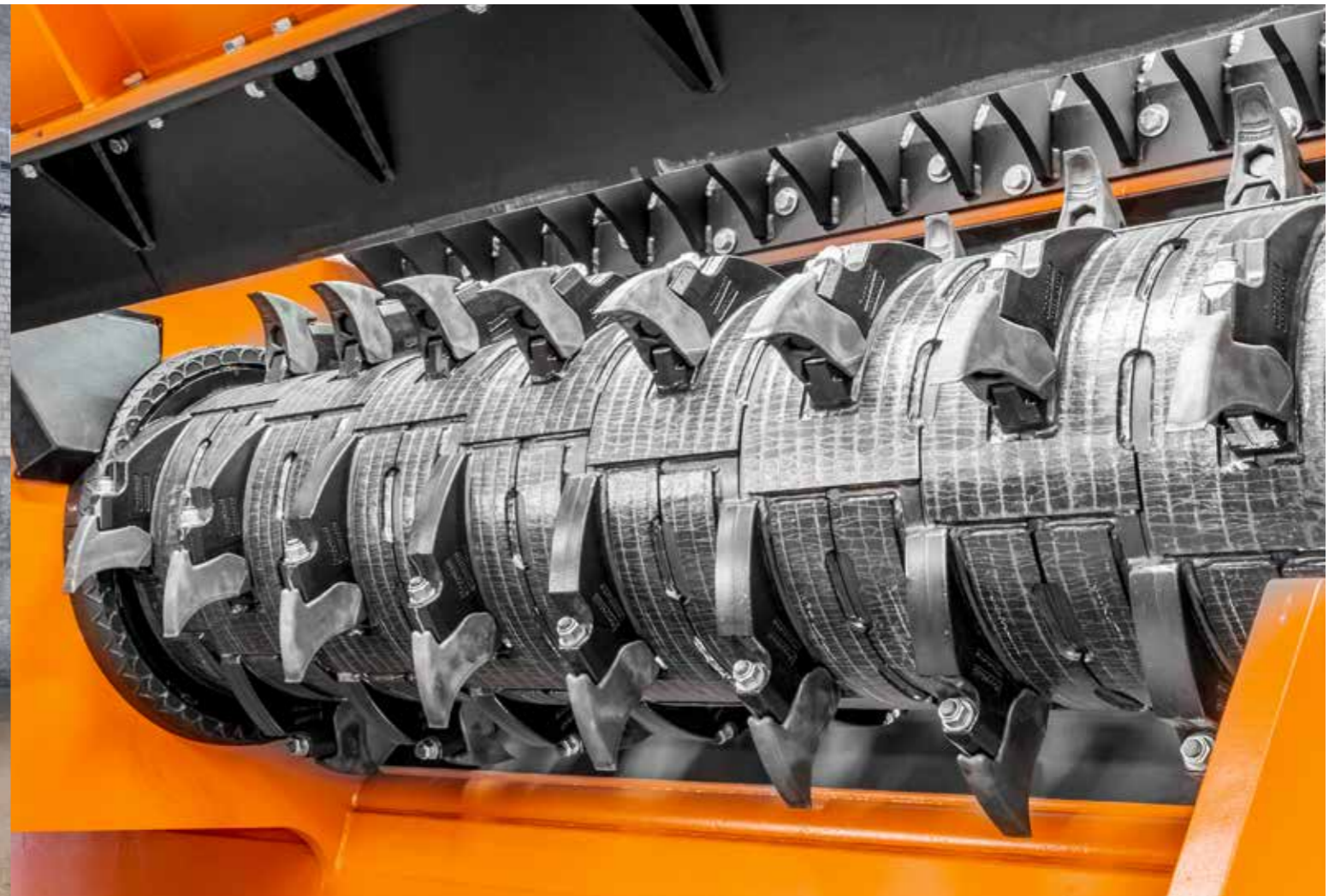
The "Limiter" elements hold back any oversized chunks, before they get to the material output and feed them back to the shredding process. The individual "Limiter" elements are gimbal-mounted below each comb tooth and are able to avoid any occurring foreign objects in all directions.

CHANGING IN NO TIME AT ALL

The elements can easily be exchanged thanks to the large comb maintenance hatch. No tools are needed for this job. After removing splint and pin the limiter can be

pulled out. In case of worn "Limiter" elements, the holder does not have to be replaced, which reduces significantly the costs of spare parts for this area.





CERON TYPES 206/256/306

More energy efficiency, lower maintenance

30% LESS ENERGY CONSUMPTION

The pre-shredders of the CERON series are equipped with a state-of-the-art three-phase drive and intelligent frequency converter technology.

The direct drive transfers power to the shredding rotor with maximum efficiency. For that reason 30 % less energy is required, compared to a hydraulic power train. The motor is dimensioned to apply enough torque in order to start the machine even when fully loaded with material.

Time-consuming maintenance work in the drive area is not needed, since the three-phase motor does not require any forced ventilation and fresh

air supply. In addition to that, filter mats and carbon brushes no longer have to be replaced. The CERON Type 206/256/306 models can be equipped with different sizes of motors.

Depending on material toughness, required size reduction and chosen machine size the installed power can vary between 132 and 400 kW.










OPTIMUM SHREDDING PROCESS

Flexibility thanks to different rotor sizes

CERON TYPES 206/256/306

SHAFT WITH TEETH + TOOTHED BAR

							
Shredding system	S 800/10	M 800/10	L 600/2	L 600/3	L 600/4	XL 600/2	XL 600/4
Shaft diameter	800 mm	800 mm	600 mm	600 mm	600 mm	600 mm	600 mm
Shaft length (mm)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)	2000/2500/3000 (Type 206/ 256/ 306)
Tooth shape	S 60 mm	M 100 mm	L 174 mm	L 174 mm	L 174 mm	XL 175 mm	XL 175 mm
Number of shaft teeth	95/115/145	68/100/125	14/17/21	14/17/21	28/34/42	9/11/14	18/22/28
Number of comb teeth & Limiter	Comb plate	Comb plate	13/16/20	13/16/20	13/16/20	8/12/15	8/12/15



CERON TYPE 308

Reliable technology for optimum performance

The CERON 308 is the largest machine of the CERON family, combining high-quality technology, high efficiency and long service life. The machine frame and the drive system have been dimensioned to optimally suit the highest requirements and workloads.

POWERFUL AND FLEXIBLE

The drive concept combines the 450 kW of motor power with the flexibility offered by the combination of a belt drive and a robust bevel helical gearbox. The gear reduction of the belt drive can be chosen according to demand, a smaller one for more speed and thus throughput, a higher one to achieve more torque for tougher

material. All of that can be done by means of a mechanical change. The motor meanwhile stays at nominal speed. Nevertheless the frequency converter allows for fine adjustment






of the shredding speed to adapt to throughput requirements of the subsequent process chain. Large safety doors and flaps facilitate the efficient and safe maintenance of the machine.



OPTIMUM SHREDDING PROCESS

Flexibility thanks to different rotor sizes

CERON TYPE 308 SHAFT WITH TEETH + TOOTHED BAR

					
Shredding system	M 1000/12	L 800/3	L 800/4	XL 800/2	XL 800/4
Shaft diameter	1000 mm	800 mm	800 mm	800 mm	800 mm
Shaft length	3000 mm	3000 mm	3000 mm	3000 mm	3000 mm
Tooth shape	M 100 mm	L 174 mm	L 174 mm	XL 175 mm	XL 175 mm
Number of shaft teeth	150	21	42	14	28
Number of comb teeth & Limiter	Comb plate	20	20	15	15



OPTIMALLY EQUIPPED

Material-specific processing for every requirement

INDIVIDUAL SHREDDING SYSTEMS

In order to meet process requirements in regard to material toughness, throughput as well as input and output sizes, machines of the Ceron series can be equipped with multiple options while at the same time keeping energy requirements at a minimum.

RUGGED AND MAINTENANCE-FRIENDLY

Long operating periods without any interruption are ensured by the system, since the teeth on shaft and comb are made of highly wear resistant cast iron with hard facing or forged steel.

The comb teeth are mounted on an exchangeable bar. As a result, the comb teeth can be easily replaced outside of the machine by removing the entire bar. The shaft

teeth can be changed via bolt connections on individual tooth holders fixed to the rotor and by inching the shaft forward to reach every tooth comfortably and safely.



DOPP-LOCK® SYSTEM

PRACTICAL AND SECURE

Our patented Dopp-Lock® quick-change system makes it easy to exchange teeth of shaft and comb. Just one relatively small bolt is enough to fix the tooth in place because it does not bear the load of the shredding force. That is what the patented interlocking geometry of tooth and tooth holder is designed for.

RUGGED AND SUSTAINABLE

The Dopp-Lock® quick change system is especially durable, because the tooth is primarily held in place by interlocking into the tooth holder which in turn is welded solid-

ly to the shaft. This allows the tooth to withstand extremely high loads, while at the same time being easily changeable.

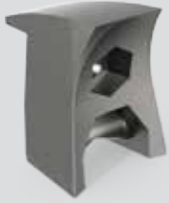
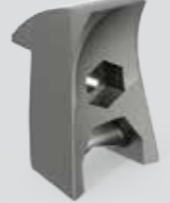

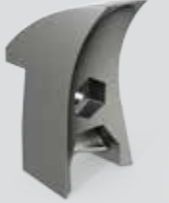



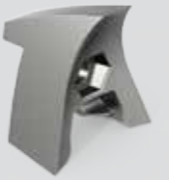



ROTOR TEETH

Broad selection for systematically perfect solutions

DOPPSTADT'S ROTOR TEETH

				
Designation	Shaft tooth 130 Size L hard facing	Shaft tooth 150 Size L hard facing	Shaft tooth 174 Size L forged	Shaft tooth 174 Size L C3 forged, root
Item No.	99254040125	99254040145	99254040445	99254040465
Household waste	★★★	★★★★☆	★★★★	★★
Bulky waste	★★	★★★★	★★★★	★★
Commercial waste	★★★	★★★★	★★★★	★★
Mixed construction waste	★★★	★★★★	*	★★
Green waste	★★	★★	★★★★	★★★★☆
Waste wood	★★★	★★★★	★★★★	★★★★
Roots	★★	★★	★★★	★★★★☆

			
Designation	Shaft tooth Size XL hard facing	Shaft tooth Size M forged	Shaft tooth Size S forged
Item No.	99255040161	99254040785	99254040875
Household waste	★★★★	★★	★★
Bulky waste	★★★★	*	*
Commercial waste	★★★★	★★	★★
Mixed construction waste	★★★★	*	★★
Green waste	★★★★	*	*
Waste wood	★★★★	★★★★	★★★★
Roots	★★	*	*

★★★★ Very good ★★★ Good ★★ Limited ★ Not recommended ☆ Especially recommended by the manufacturer for use

TECHNICAL SPECIFICATIONS

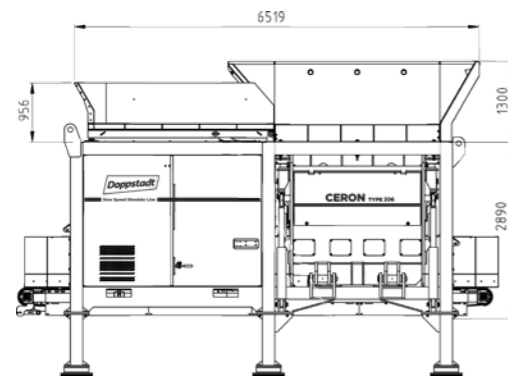
CERON TYPE 206 TYPE 256



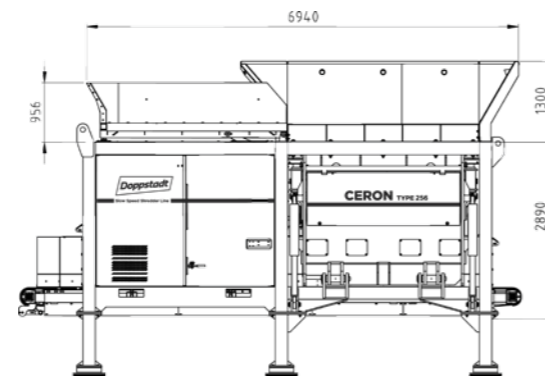
Total weight	22,000 kg	24,000 kg
Chassis	Stationary	Stationary
Length	6,440 mm	6,865 mm
Width	2,675 mm	2,675 mm
Height	3,185 mm	3,185 mm
Transport width	2,675 mm	2,675 mm
Transport height	3,185 mm	3,185 mm
Transport length	6,450 mm	6,865 mm
Engine type	Three-phase motor	Three-phase motor
Motor power	132 / 200 / 315 / 400 kW	132 / 200 / 315 / 400 kW
Torque	847 / 1,284 / 2,018 / 2,565 Nm	847 / 1,284 / 2,018 / 2,565 Nm
Fill width	2,660 mm	3,080 mm
Loading height	2,890 mm	2,890 mm
Shaft length	2,000 mm	2,500 mm
Shaft diameter	600 / 800 mm	600 / 800 mm
Shaft speed	14-31 min ⁻¹ Depending on equipment configuration	14-31 min ⁻¹ Depending on equipment configuration
Number of shaft teeth	Depending on equipment configuration	Depending on equipment configuration

Freely selectable shredding system in the sizes S, M, L and XL
(See Figures pp. 16/17) Conversion to other tooth sizes possible.

CERON TYPE 206



CERON TYPE 256



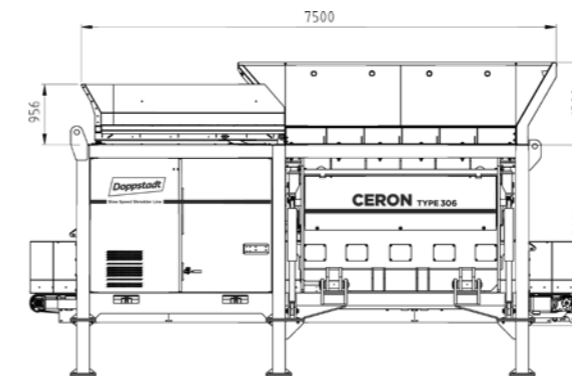
CERON TYPE 306 TYPE 308



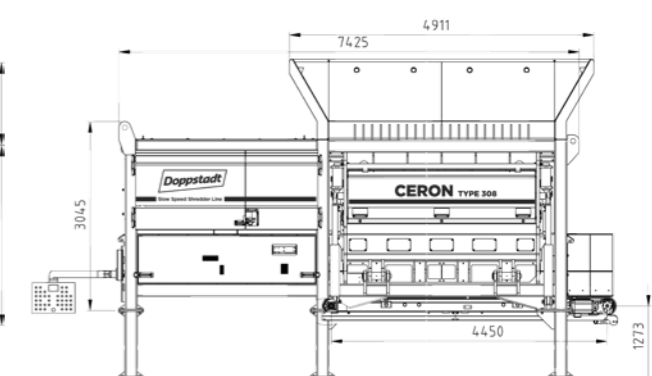
Total weight	28,000 kg	38,000 - 45,000 kg
Chassis	Stationary	Stationary
Length	7,425 mm	7,330 mm
Width	2,675 mm	2,900 mm
Height	3,185 mm	3,185 mm
Transport width	2,675 mm	2,900 mm
Transport height	3,185 mm	3,185 mm
Transport length	7,425 mm	7,425 mm
Engine type	Three-phase motor	Three-phase motor
Motor power	315 / 400 kW	315 / 450 kW
Torque	2,018 / 2,565 Nm	2,018 / 2,884 Nm
Fill width	3,640 mm	3,640 mm
Loading height	2,890 mm	2,890 mm
Shaft length	3,000 mm	3,000 mm
Shaft diameter	600 / 800 mm	800 / 1,000 mm
Shaft speed	18-31 min ⁻¹ Depending on equipment configuration	13-35 min ⁻¹ Depending on equipment configuration
Number of shaft teeth	Depending on equipment configuration	Depending on equipment configuration

Freely selectable shredding system in the sizes S, M, L and XL
(See Figures pp. 16/17) Conversion to other tooth sizes possible.

CERON TYPE 306



CERON TYPE 308





November 2020

Your advantages at a glance:

- High flexibility due to many options and configurations to choose from according to application
- Maximum throughput and power to spare even with the most difficult requirements
- Quick, save and comfortable maintenance thanks to good accessibility to tools and the engine compartment
- Significantly reduced downtime during operation thanks simple replacement of tools and components
- Less energy consumption and lower noise emissions



[doppstadt.com](https://www.doppstadt.com)

Doppstadt Umwelttechnik GmbH

Steinbrink 13, 42555 Velbert
Germany

Phone +49 2052 889-900
info@doppstadt.de