MUS-MAX®

INNOVATION AND COMPETENCE IN THE CHIPPER TRADE!

Hack-Truck Mobile Chipper

Truck and diesel-engined mobile wood chippers
with power rating up to 775 HP

"If you have had the best, then you will never be happy just with the good."

WELCOME TO MUS-MAX

INNOVATION ALS STRATEGIE!
INNOVATION AS STRATEGY!

The company MUS-MAX developed from a forge founded in 1859 by Karl Gutjahr, which, since the 1950s, has concentrated more and more on the manufacture and trading of agricultural machinery. The **MUS-MAX** brand was brought to the world in 1975 – and since then our machines have always stood for innovative technology and the highest level of handshake quality. The company has remained in family ownership since the first days of our history in the 19th century and it continues to grow. We currently have more than 115 employees who make a significant contribution to the success of the brand.

Our history in numbers

1859

Foundation of the market town forge Gross Sankt Florian by Karl Gutjahr, which later was to become the MUS-MAX company.

1952

The start of manufacture and trading of agricultural machinery

1975

Birth of the "MUS-MAX" brand

mus max

The **"Wood-Terminator"** wood chipper range is marketed worldwide by our continuously-expanding sales and service network.

Above all, our customers have come to appreciate the efficiency of the products, the high reliability levels, and also the flexibility of our company. Everything is available from a single source, from the initial idea to the series product, since we develop, produce and market our products ourselves.

It is our aim to make the tasks performed by our customers easier. It is therefore our task to develop high-quality machinery that meets the needs of our customers, because the customer is always the focus at MUS-MAX! We also secure the quality and sustainability of our machines by using optimum working procedures and continuous development.

1994

Manufacture of the first wood chipper **"Wood Terminator WT 7"**

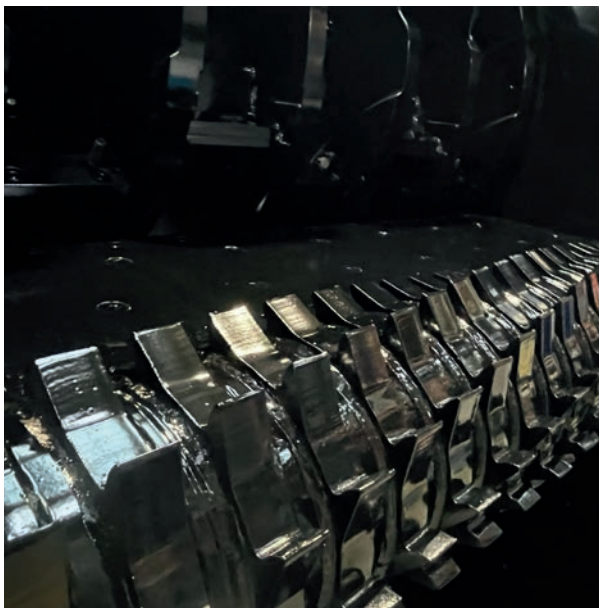
2004

Delivery of the first truck chipper **"Hack-Truck"**

2023

Start of building the new company headquarters

Infeed system on model WT 11 NMV



Lower infeed roller with optimum tooth geometry

AGGRESSIVE **INFEED SYSTEM**

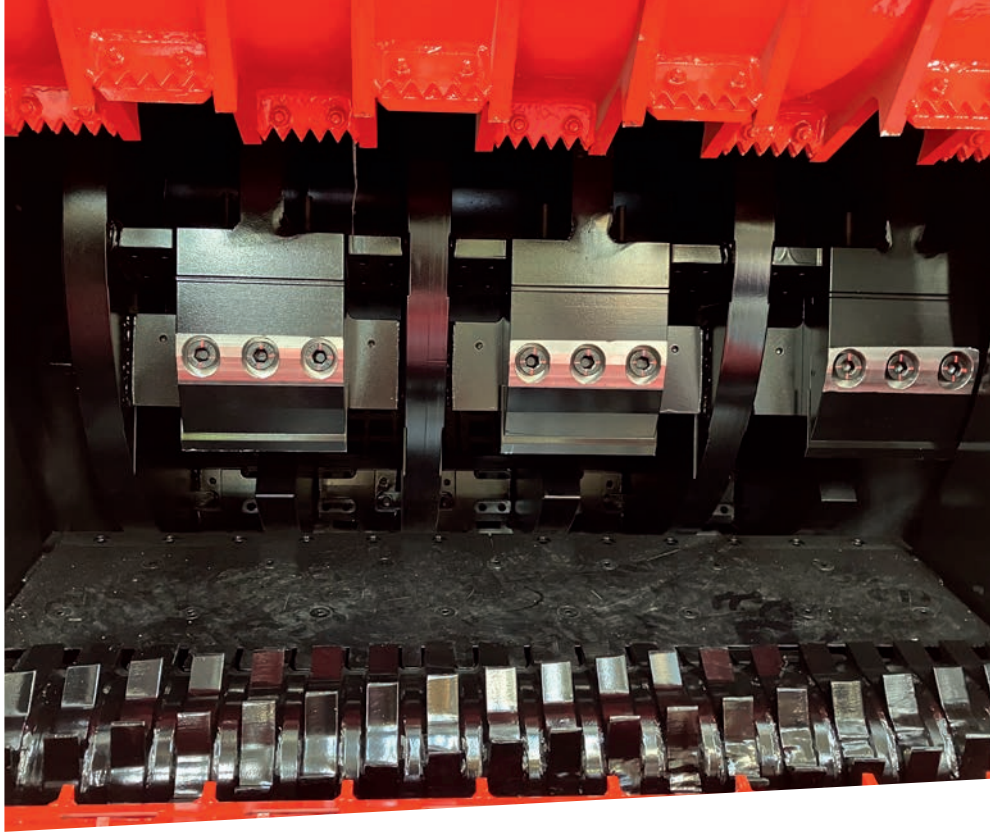
Exchangeable teeth and blades ensure consistent smooth running of the top roller.

Sturdy infeed table

The infeed table, made of high-strength hot-dip galvanised steel, ensures easy feeding to the machine as a result of its design. On the narrow models, the infeed table can be supplied with an extended roller or with a swivelling infeed tube.

Aggressive infeed rollers

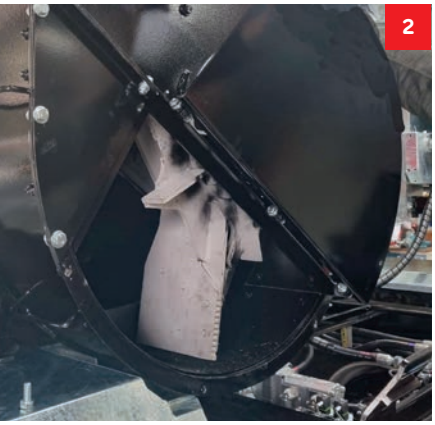
The generously dimensioned upper infeed roller, with its internal planetary gearbox, together with the lower infeed roller, provides continuous powerful material infeed.



MUS-MAX
DRUM TECHNOLOGY

Whether it be **fine or coarse material to be chipped,** the MUS-MAX chipping drums guarantee continuous consistent **high quality chipped material.** The drums are characterised by a very high drum mass with a simultaneous low speed of rotation. This ensures very smooth and even running. All drum types can be supplied with knives (20 mm thick) or blades (8 or 10 mm thick), depending on customer requirements. They can be supplied in a single or double cut version, depending on the material to be chipped.

		WT 10 XL NMV	WT 11 NMV	WT 11 L NMV	WT 11 XL NMV	WT 12 NMV
5 knives drum	233 mm	–	●	●	–	–
6 knives drum	233 mm	–	–	–	●	●
8 knives drum	168 mm	–	–	–	–	–
10 knives drum	168 mm	–	–	–	–	–
10 knives drum	200 mm	●	–	–	–	–
10 knives drum	233 mm	–	●	●	–	–
12 knives drum	233 mm	–	–	–	●	●



1. Hydraulic blower with swivelling blower cover
2. Mechanical blower with industrial freewheel
3. New MUS-MAX high-performance fan blade

Central blower
MUS-MAX Hack-Trucks can also be supplied with a central blower. When using in combination with our 160 cm telescopic ejector, this makes it possible to eject the chips to both sides of the machine.

BLOWER

Our powerful blowers are available with a **mechanical or hydraulic** drive, depending on the model. Irrespective of the drive, each is characterised by:

- Highly efficient projection
- Less post-chipping ensures a small amount of fines
- Resistant Hardox material
- Easy replacement of wear plates

EJECTOR

The appropriate ejector is available for every MUS-MAX chipper, matched in each case to the delivery rate and the blower. All the ejectors are driven by a sturdy and wear-resistant rotary drive. They are characterised by their **high performance** and **consistently accurate stream of ejected material.** They are also available in a telescopic version (80 or 160 cm), depending on the model.

CONSISTENT **HIGH QUALITY WOODCHIPS**

Our wide product range ensures the production of high quality woodchips in the sizes P16–P63 (G30–G100).

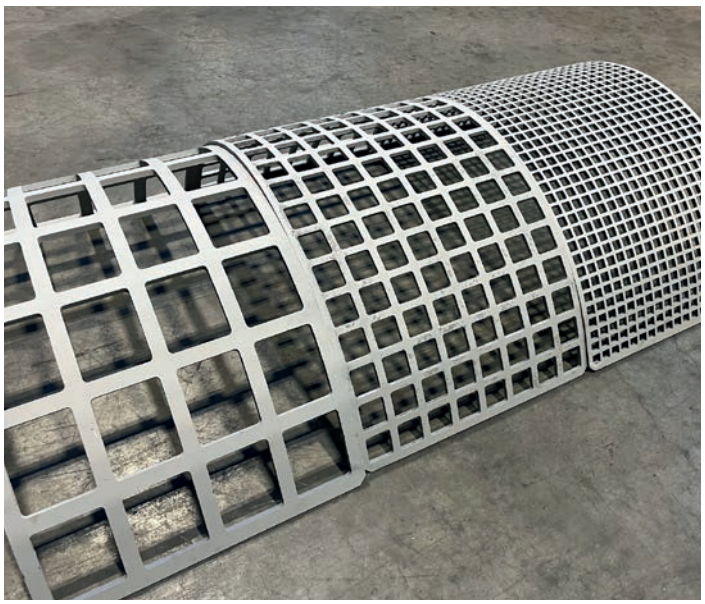
The screens **have an important role** in the chipping process. They make sure that no over-long parts remain in the chipped material. MUS-MAX chippers have a large screen surface, resulting in a low level of fines, minimizing the post-chipping involved. The screens can be replaced by a single person in just a few minutes, thanks to their low weight and their two-section design.

P16 (G30)

P31 (G50)

P63 (G100)

Our screens are available in all common versions from 20–120 mm.



CONTROL SYSTEM

MUS-MAX System Control "SC"

Intelligent and intuitive control unit for wood chippers. A combined controller consists of a 10.1" touch screen and a keypad with thumb joystick, rotary knob and 9 multi-function keys. It is possible to integrate up to 3 cameras, one foot-pedal feed and one remote control connection.

Flexible mounting options

The MUS-MAX System Control components can be arranged individually to suit the customer's requirements and the installation situation. For example, the controller can be mounted directly next to the touch screen, or even in the armrest on the operator's seat.

As an option, our wood chippers can also be supplied with the classic MUS-MAX Process Box.

The **powerful MUS-MAX Control System** is characterised, amongst other things, by:

- An intuitive arrangement of all the control elements
- An intelligent feed control system, matched to the material to be processed
- Modern powerful hardware
- Individual setting possibilities for the joystick functions and chipping programmes
- Rapid identification of faults with optional online support via the IOT System

MAINTENANCE

MUS-MAX wood chippers are characterised, amongst other things, by an **outstanding maintenance accessibility**. Whether it be the rotor, the bearings, the belt tensioner or the oil filters, all important machine components can be **obtained without great expense.**

The new **MUS-MAX "Safety" maintenance platform,** fitted as standard, provides the greatest possible freedom of movement when working on the rotor and also ensures the highest level of safety. Ergonomic screen and knife replacement from the platform is ensured, in combination with the rotating screen mount and swivelling toolbox.

All the essential maintenance intervals are stored in the intelligent **MUS-MAX Control System** and the operator is reminded to carry out the routines in good time.

Rotating screen mount

Rotating aluminium toolbox including LED lighting for the rotor

Safety maintenance platform with fall prevention

Spare parts availability

Based on the high level of in-house manufacture (CNC milling, turning, drilling, and laser-cutting), we can ensure an optimum provision of spare parts and wear parts at all times.

OPTIONS

All of our models can be matched to the specific requirements of our customers by the use of a **wide variety of optional equipment possibilities**. The options listed here are only a small extract from our range of special equipment. On request we can also incorporate **individual special solutions**.

Cover for stabilizers

Robust cover for crane support with reinforced floorplate.

Stabilizers

Hydraulic support at the rear.

Central lubrication

Grease central lubrication for the chipper and the crane.

LED lighting packages

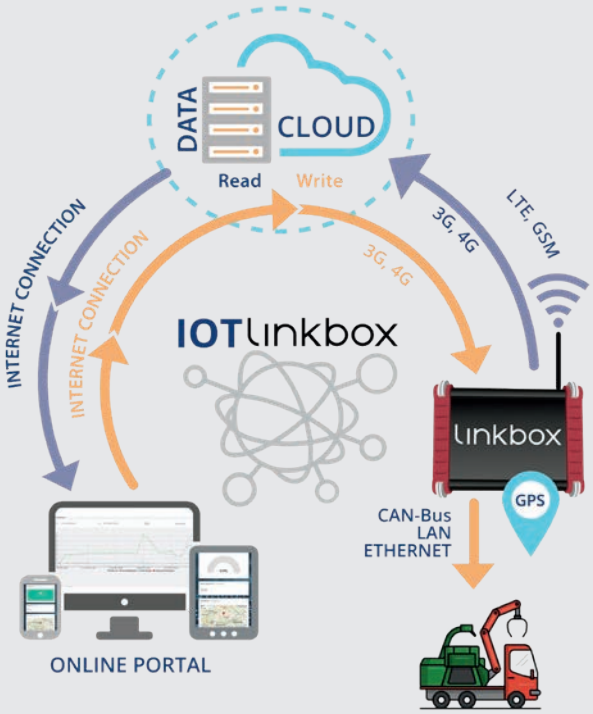
The premium LED lighting package ensures safe, accurate and productive working, even at night.
This lighting upgrade consists of up to 6 LED working spotlights, providing the driver with a good view of the entire machine.

Toolboxes

Swivelling or fixed powder-coated toolboxes.

Camera

Camera system with up to 3 cameras (reversing camera, ejector, etc.).



Telemetry

IOT Connect System

The IOT Connect System connects mobile and stationary machines to the portal via the internet, where remote control, remote monitoring and various assessment tasks can be carried out.

The following functions can be monitored and adapted at any time by the owner or even by the MUS-MAX service team, if required, using our own web and mobile application:

- Realtime status of the machine
- The chipping parameters
- Call-up of error messages
- Hydraulic pressures and all rotating speeds
- Remote maintenance by the manufacturer
- Data recording
- Live maintenance
- Position determination of the machine using GPS

Radio remote

Radio remote control with 2 button levels for controlling the election and feed functions.

Wood splitter

Our machines can be equipped with splitter jaws and splitter wedges to allow you to process oversize items economically.

Knife storage box

For secure storage of 1-2 sets of knives.

Footpedals

The operator can himself allocate the various different functions (feed reverse, upper rollers, etc.) to the footpedals using the chipper control system.

COMPONENTS
TRUCK

Cabin modification of the driver's cab

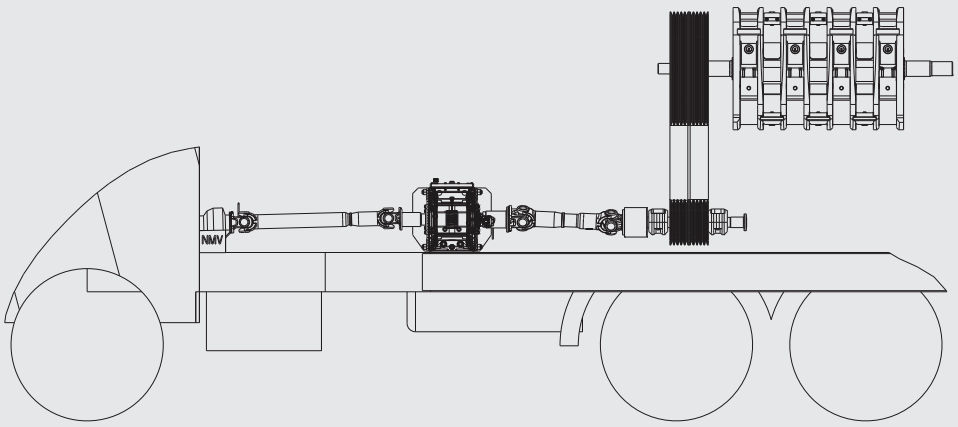
The panorama windows in the truck cab, together with the rotating seat (seat heating and ventilation) ensure **outstanding viewing conditions and the highest level of operator comfort.** The cab modification is extended by the standard additional LED spotlights and the windscreen wiper system. As an option, the cab can be fitted with an air conditioning system on the roof and sunblinds.

Alternatively it is also possible to mount a **cabin crane.**

Combined cooling system/air filter modification

The tried and tested **MUS-MAX combination cooling system** was developed specifically for our application to ensure problem-free running, even at high temperatures.
The cooling system, mounted to the side of the chassis frame, consists of a water cooler and two hydraulic oil coolers (chipper hydraulics and crane hydraulics). An incorporated **Clean-Fix reversible fan** ensures continuous cleaning for the cooler. This system, in combination with the conversion to a larger air filter with pre-cleaner, provides the best of prerequisites for working in dusty conditions.

Easy-to-open cooler door for quick cleaning.



Schematic representation of the drive train on a MUS-MAX Hack-Truck.

Drive system

We use a works **Mercedes-Benz NMV auxiliary drive, having a torque rating of 3,200 Nm** as the drive unit for the MUS-MAX Hack-Truck range. Reversing the direction of rotation takes place subsequently by a spur gear unit. The engine and distribution gearbox remains stationary throughout the entire chipping process, and this has a positive effect on wear and effectiveness. In combination with a freewheel in the drive train, it is therefore possible to move the vehicle on immediately after deactivating the auxiliary drive.

Driving device for the operator seat

This device allows the chipper to **travel** at a speed of up to a maximum speed of 10 km/h, **controlled from the operator's seat.** To do this, we mount a control panel to the operator's seat, having a steering column stalk, parking brake, and a joystick. In combination with the integrated accelerator and brake pedal, this device makes sure that the driver no longer has to descend from the operator's seat to reposition the machine.

Driving unit with footpedals at the operator's seat.

HACK-TRUCK
TRUCK DRIVE

The **MUS-MAX "Hack-Truck" range** unites the concentrated power of the truck engines with our "Wood-Terminator" chippers to ensure professional chip production.
The structure is built up on a Mercedes-Benz Arocs chassis. Vehicles having **520, 580 and 630 HP in 3-axle or 4-axle versions** are used, depending on the requirements and the type of chipper concerned.

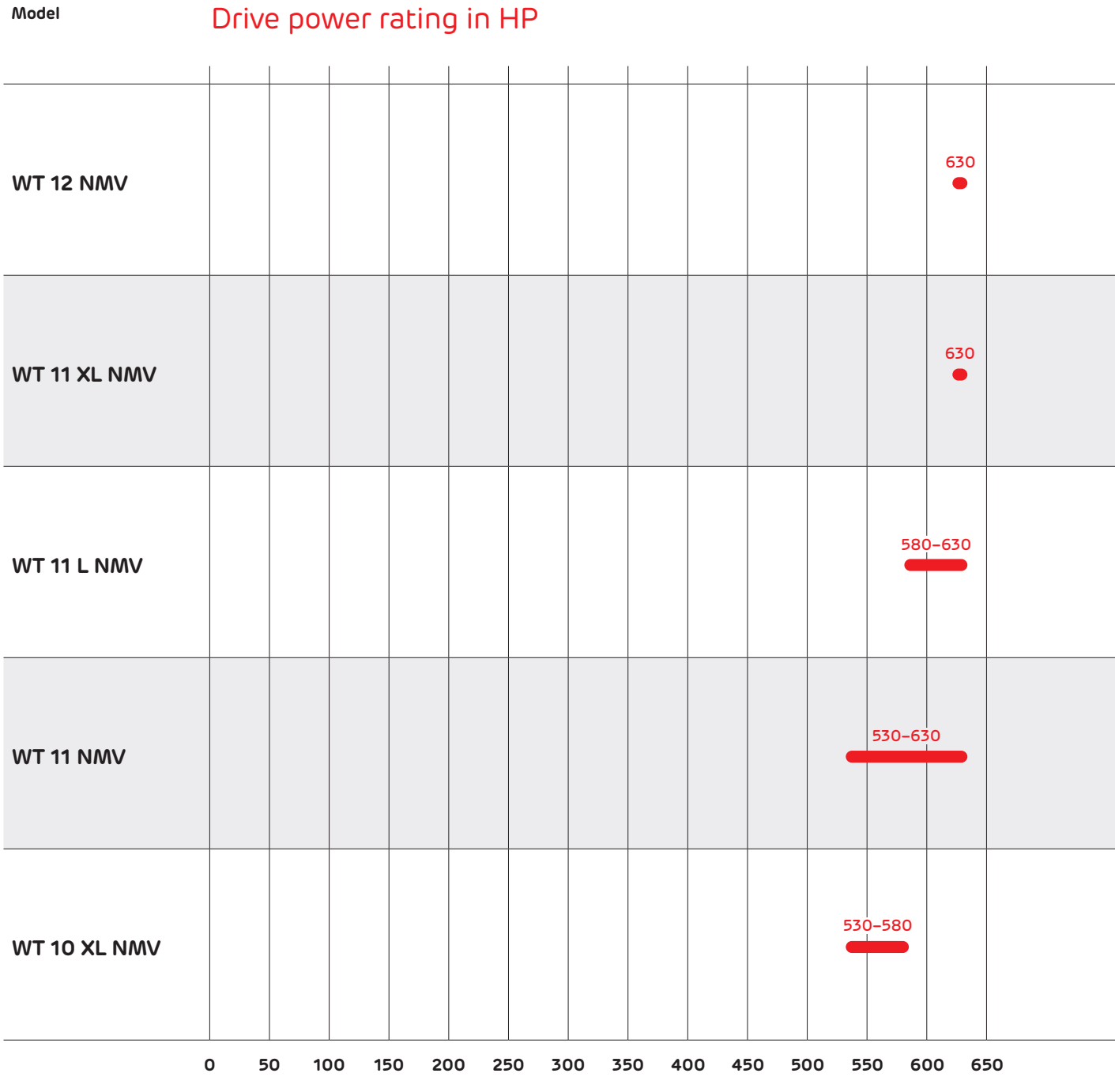
		WT 10 XL NMV
Infeed opening (WxH)	cm	98x75
Maximum tree diameter	cm	75
Chipping capacity*	lcm/h	200
Number of chipper knives/blades	No.	10
Screen surface	m^2	1.70
Maximum ejection height*	m	5.20
Maximum throwing distance*	m	14
Feed chain length	m	2.7
Truck engine rating	HP	530–580
Truck axles	No.	3
Example of truck**		Mercedes-Benz Arocs 3353 6x6 or 6x4

* In loose cubic metres per hour, data depending on wood consistency
** Chassis data subject to correction. Depending on the special equipment, it may be necessary to use a chassis having a higher tonnage or number of axles.

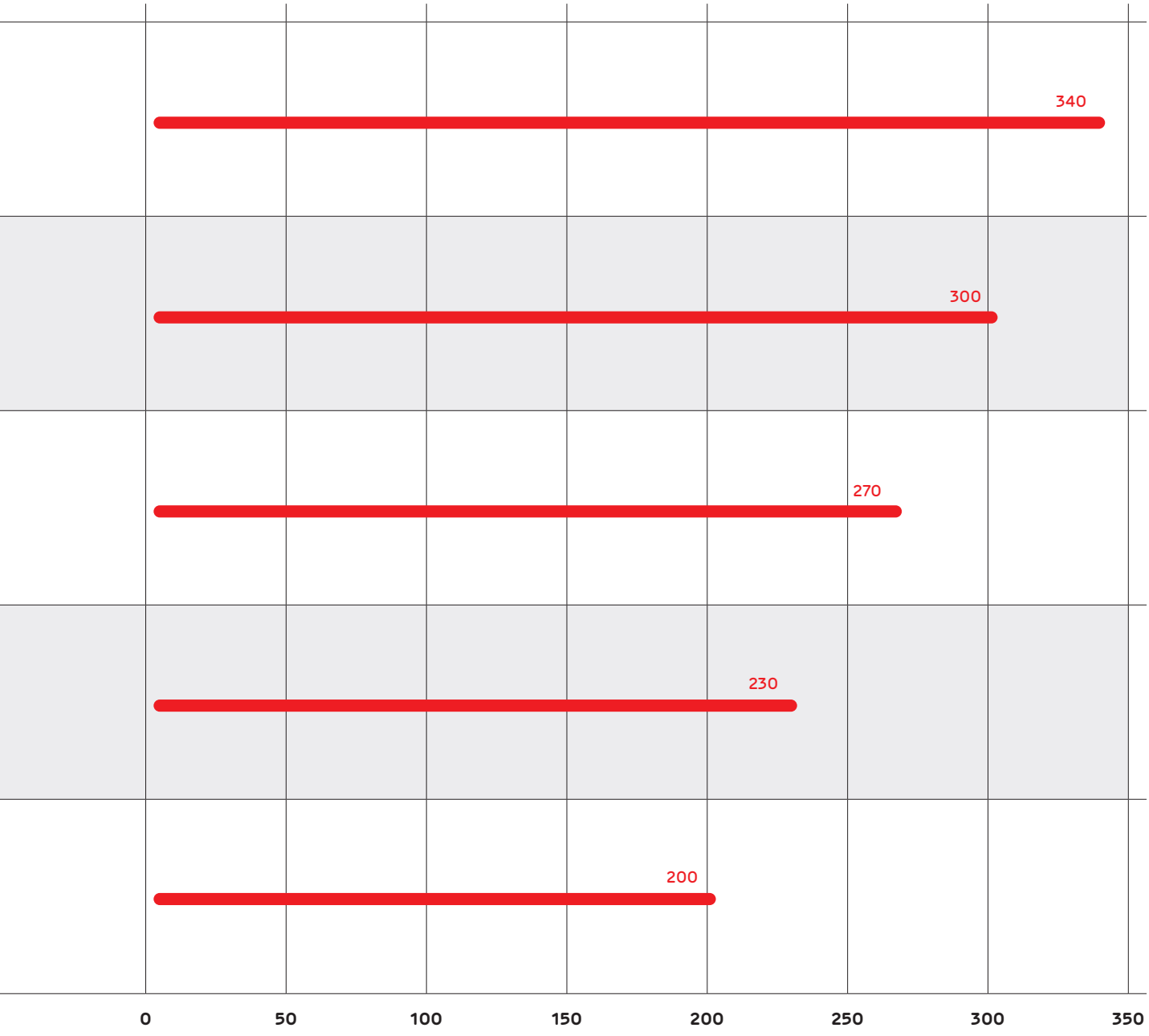
WT 11 NMV	WT 11 L NMV	WT 11 XL NMV	WT 12 NMV
114x75	114x80	135x80	135x90
75	80	80	90
230	270	300	340
5/10	5/10	6/12	6/12
1.95	2.00	2.10	2.20
5.20	5.50	5.50	5.60
16	18	18	20
2.7	3.15	3.15	3.15
530–630	580–630	630	630
3	3/4	4	4
Mercedes-Benz Arocs 3358 6x6 or 6x4	Mercedes-Benz Arocs 3353 6x6 or 6x4	Mercedes-Benz Arocs 3363 8x4 or 8x6	Mercedes-Benz Arocs 3363 8x4 or 8x6

DRIVE POWER AND THROUGHPUT RATE

Depending on the type of chipper and the truck drive power rating, our Hack-Truck range covers a **throughput of 200–340 lcm/h**. This means that we can deal with all types or work, from the private contract to delivery to industrial installations.



Throughput in lcm/h



DIESEL UNIT RANGE

The **MUS-MAX Diesel unit range** unites the combined force of our chippers with the power and efficiency of the most modern of diesel engines. The tried and tested Caterpillar engine technology serves as the drive. These diesel engines are available in widest variety of power ranges with the most common emission standards.

"DS" range
Diesel engine machine with side feed

The body is built up on various different trailer chassis (tandem or tridem trailers), or on truck chassis frames supplied by all common manufacturers, depending on the application.

Availability overview

(Technical data according to that in the truck machine table, starting at Page 14)

	WT 7L	WT 8XL	WT 9XL	WT 10XL	WT 11	WT 11L	WT 11XL	WT 12
DS	–	●	●	●	●	●	–	●
DLK	–	–	●	●	●	–	●	–
DLR	–	–	●	●	●	–	●	–

“DLK” range
Diesel engine machine with longitudinal feed and slewing ring

The body is built up on a trailer chassis (tandem or tridem trailer), or on truck chassis frames supplied by all common manufacturers, as specified by the customer. As a result of its longitudinal feed (3.0 m long) and the slewing ring, the machine can be used very flexibly, and can be fed either from the left or from the right.

Radio remote control
for track driven machines

“DLR” range
Diesel engine machine with length infeed on a track chassis

The unit is mounted on a track chassis (400 mm or 600 mm track width). This machine was designed for rough terrain or where the ground consistency is poor. The entire machine is operated through a radio remote control.

MUS-MAX®

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