

Chippertruck



INT

JENZ

Preface



Dear reader,

The Chippertruck has been one of our most important products since 2006. The vehicles have run the through emission categories Euro 3 up to Euro 6 c at the present time, all within 10 years. We haven't carried out any major changes to the machine's drive concept at all over this entire period, whereas considerable further developments have been applied to the add-on chipper machines.

After a period of 10 years it is therefore understandable that we feel it is time to deal with the overall machine's drive concept, i.e. not just the chipper unit but also with the HGV. The starting point in this case is driver comfort which, after all, does form the basis for the overall system's shredding power on site. If operation becomes easier and the working conditions are improved the level of comfort also improves, which then specifically pays off in more woodchippings per hour.

Our first approach was to replace the manual transmission used up to now by the modern TraXon automatic transmission. This means the driver comfort has improved without compare, the chipper trucks now drives as softly as butter, almost like a normal car. At the same time the fuel consumption in pure drive mode has been reduced yet again.

The second stage is improvements to the driving comfort on site. In this case we have achieved this optimisation by providing the vehicle with a second drivetrain which is only used for chipping operations. Since there are no series parts available from MAN for this purpose we have started to use what is currently the most powerful NMV available and have combined it with the established pump distribution transmission from our power takeoff machines. Now the machine can be moved around the site in the engaged condition with full engine power. At the same time the hydraulics have been completely removed from the engine heat range. The drivetrain required for driving is unaffected by this change and is now specifically only used for transport.

These measures have been rounded off by optimisation of the human-machine interface. The new easy2 controller makes it possible for us to automate repeating operational sequences when setting up and taking down the chipper. For the Cobra vehicles, we have been able to elegantly and logically integrate the new control system with its console and armrest in the driving seat. The drivers feel comfortable, everything is just that little bit quicker and simpler, and this always results in a few more woodchippings per hour on balance.

Even if these improvements cannot be seen from the outside, the Chippertrucks represent something completely new in 2017. From our point of view, the ambitious description "Chippertruck 2.0" is deserved to the fullest extent. You can find all further details about this on the following pages.

Your

Dipl. Oec. Uwe Hempfen-Hermeier
Managing Partner

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HGV driver's cab with mowing window



Take your seat in HGV with amazingly comfortable long-distance driving equipment. The space available and the excellent view are setting standards! The driver does not have to leave the cab to change between driving and chipper operation. Just quickly change places to the operator's seat, and off you go. From here you have an unobstructed view over the fitted chipper draw-in area through an enlarged rear window. An additional side window provides a good overview of the woodpile.

All the operating elements are ergonomically arranged. Cameras allow monitoring of locations which cannot be seen directly, for example the delivery pipe or the rear of the HGV. Four LED headlights on the rear windscreen and two side headlights illuminate the working area even when it is completely dark. The driver's cab is sound-insulated and air-conditioned.

The air-sprung driver comfort seat with lumbar support, shoulder adjustment and heating leaves nothing to be desired. A roof-mounted air conditioning unit is available as an additional fitting. This means that you can leave the cab completely relaxed, even after a long day at work. Convince yourself: the working comfort will simply inspire you!

Rotating cab



JENZ can offer the fitting of a rotating CLAAS X10 cab as an alternative to the HGV driver's cab. The decisive advantage is that the driver no longer has to change from the driver's seat to the chipper operator seat because the cab can swivel through up to 160°. Just sit down and off you go! Driving and chipping from one and the same workplace, and all this with an optimum view of the woodpile, the draw-in table and the crane.

Relocating the machine with the cabin rotated does not pose problems. The chipper can be moved at a fast walking pace when the driver is looking towards the draw-in table, and is therefore especially suitable for work with frequent, brief changes of location.

The fittings provided in the rotating cab are extensive: it is fully air-conditioned, has a flexible driving column, swivelling working instruments and enough storage space including a cooler, which means that all the ergonomic requirements for a long working day are fulfilled.

A total of eight LED spotlights have been fitted to the front and rear of the cab. Two halogen and two xenon dipped-beam headlights decorate the roof. These ensure ideal visual conditions even in the dark.



HGV chassis



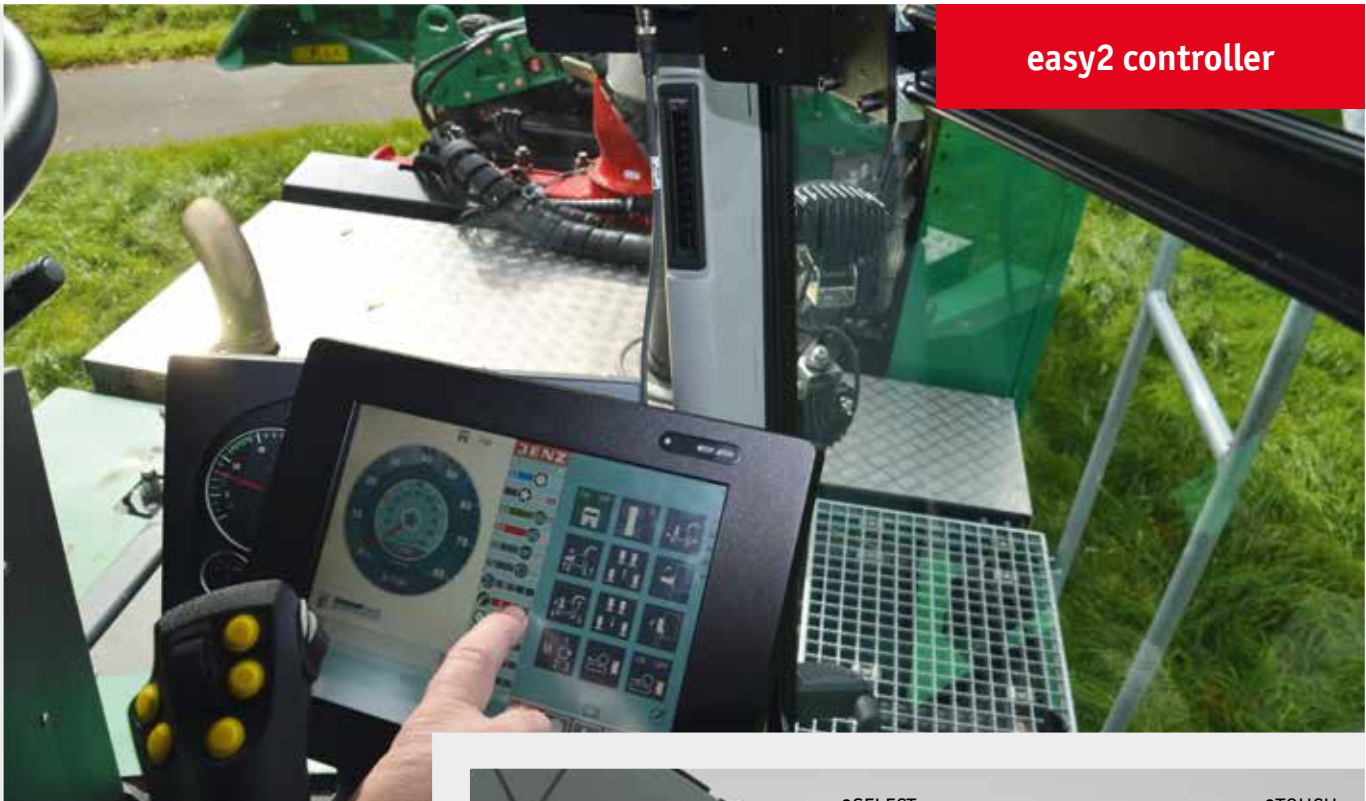
The Chippertruck concept is just as simple as it is ingenious. The chipper has been fitted on a compact, triple-axle MAN HGV chassis and is driven by the HGV engine. An additional engine is not required. The result is an unbeatably economic machine which is almost as good as a tractor-trailer combination in terms of off-road capability.

Depending on the model, motor powers of 360 or 500 hp are available. The machines are ready for operation on site within a very short time, are completely stable and very quiet.



The Chippertruck is also fast and economic or when travelling on the road. The vehicles are suitable for motorway use with a top speed of 80 km/h.

easy2 controller



All Chippertruck functions are operated via the easy2 operating system. The new controller replaces the previous easygreen controller. It consists of a touch display, the easy2touch in addition to an additional operating element called the easy2select Joystick. In the vehicle variation with the Cobra cabin version, the operating system has been extended with an additional operating console, the easy2CONTROL.

The easy2TOUCH display is the machine's command centre. Here, settings can be made by tapping the screen or using special pens/gloves. All functions which can be operated using the easy2TOUCH display can also be set using the easy2SELECT joystick.

The operator can arrange settings to his requirements in a range of display menus. Limit values can be defined or special user profiles can be created in the configuration menus. Display menus enable representation of display instruments, for example those showing torque or fuel consumption. All operating data can be recorded and transmitted to the company-specific data processing system using USB, via Wi-Fi or mobile telephones. This means that they are available almost immediately for economic evaluation.

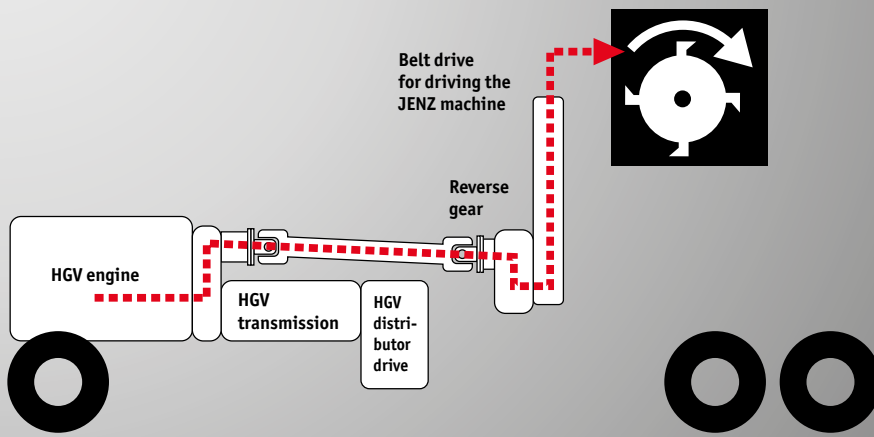


The easy2 controller in the Cobra edition with operating console easy2CONTROL.

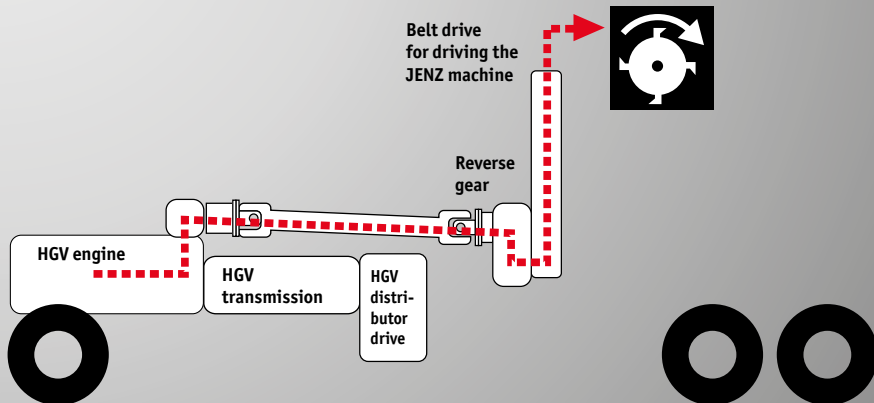


Individual arrangement of work functions possible

Main drive



Main drive Chippertuck HEM 583/593 R-Truck



Main drive Chippertuck HEM 561 R-Truck

The principle of the Chippertuck is based on the fact that the add-on chipper is driven by the HGV engine. Power transmission takes place using the ADEC (Auxiliary Drive Engine Connected) in each case. The strongest ADEC available on the market is used in the case of the larger Chippertuck models (HEM 583 and above). The solution is convincing with its long service life and enables high performances when chipping.

In the case of the smaller HEM 561 R-Truck, the MAN ADEC available from the works is used. This solution is considerably less expensive, and certainly sufficient for the lower HGV motor power of 360 hp.

A further advantage is that the ADEC auxiliary drive can be switched on and off both at a standstill and while travelling under load. This means that the vehicle can be driven simply and quickly along short routes, for example alongside a material heap.

Driving while chipping



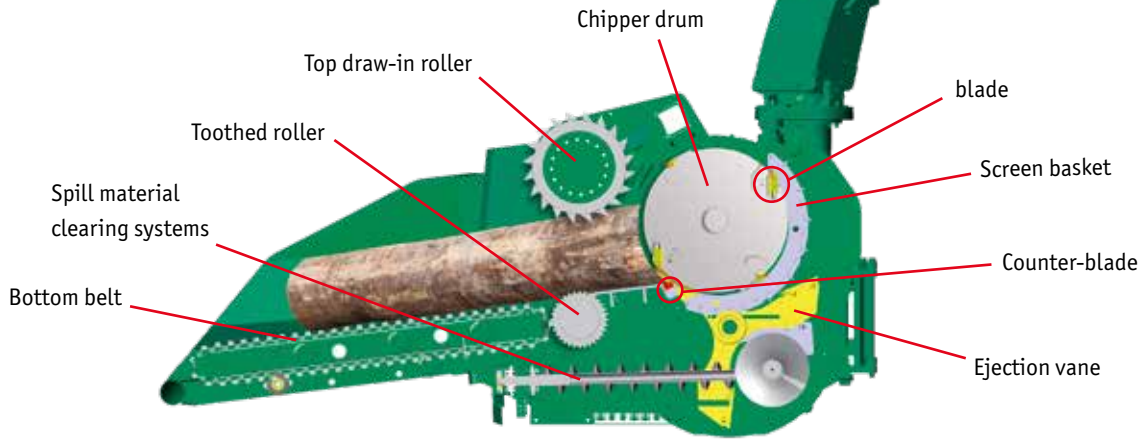
JENZ now offers all Chippertrucks with an LX driver's cab as double operating system at the operator seat with electro-hydraulic remote-control as an optional fitting. With this solution the driver can move the HGV slowly with full mechanical all-wheel drive without changing the driving seat - the perfect solution for working several small stacks or alongside motorways. A double operating system has been fitted to operate the pedals (accelerator/brake), the loading crane joystick is used to steer, the drive does not have to be disengaged. This function is compiled to form the new JENZ forward drive assistant.

The Cobra Chippertrucks can be relocated when the cabin is rotated at a fast walking speed under full traction force using the mechanical HGV drive, and thanks to the rotating cab changing between the driver and working seat is no longer necessary.

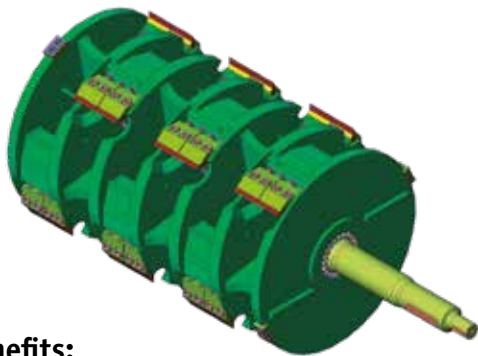


Chipper drums

Cross-section of HEM



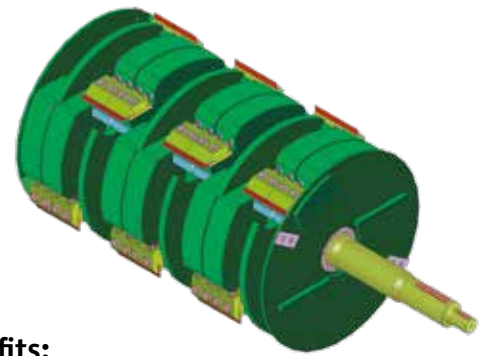
open



Benefits:

- less fines content and good chipping flow with coarse chippings

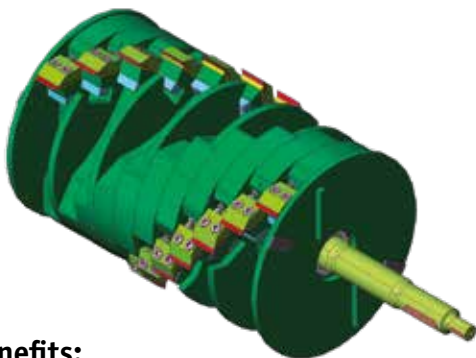
closed



Benefits:

- less overlength with light cuttings

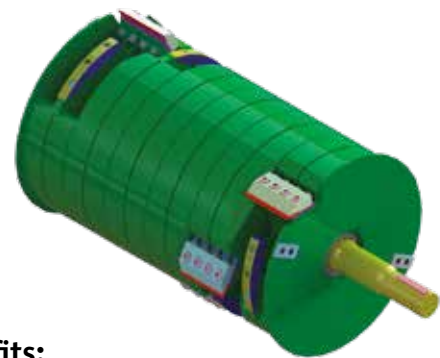
helix



Benefits:

- extremely quiet, jerk-free running
- fine woodchippings when chipping standing timber

H1



Benefits:

- coarse chippings with very low fines content
- optimised woodchipping flow
- rapid adjustment of pre-grip using wedges

Blade system

Benefits:

- no regrinding
- no further handling costs



Very fine chippings for pellet production.



G30 woodchippings

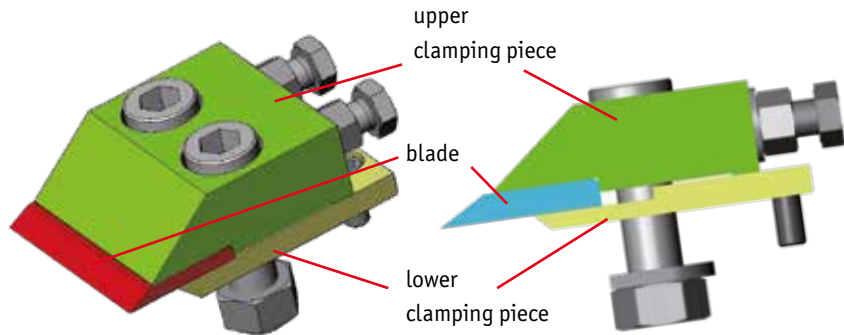


G50 woodchippings

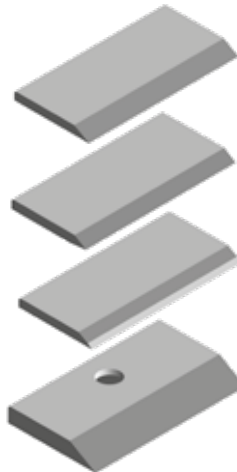


G100 woodchippings

JENZ blade system - the original



Interchangeable blades



Multipurpose blade

good for changing materials

Softwood blade

easy-running, high throughput

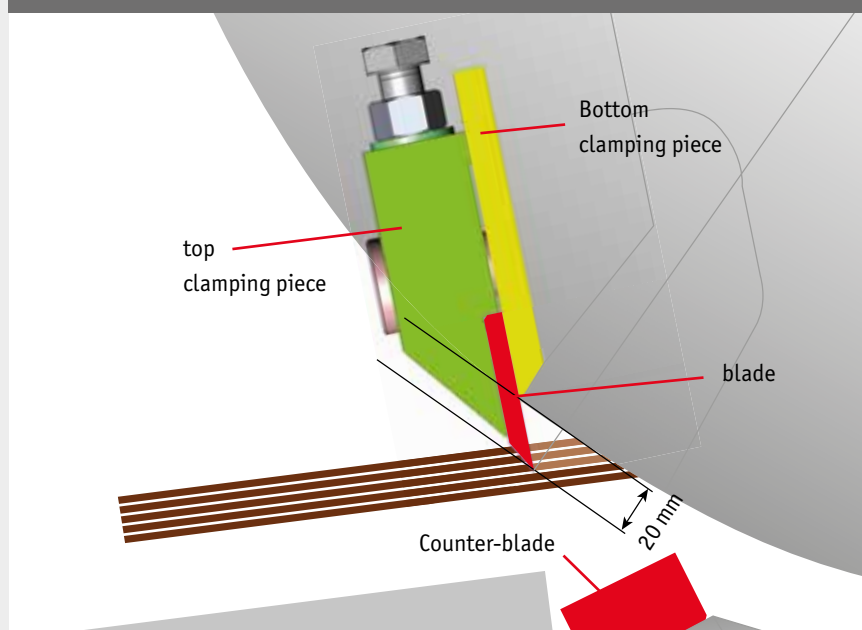
Hardwood cutter

long service life

Thick wood blade reinforced

extra thick, especially stable

pre-grip= distance between chipper drum body and cutter blade



Maintenance-friendliness



Maintenance-friendliness



The Chippertruck reduces the requirement for maintenance and repairs to a minimum. After all, you want to earn money with the machine. This is only possible if the chipper is ready to use again quickly.

The screen basket cover can be hydraulically opened for all chippers. This means that the chipper rotor is freely accessible immediately. This allows the blades to be sharpened or replaced easily from a standing position. The screen basket can be replaced without tools.

All electrical components are fitted together in a protective housing.



Maintenance-friendliness



The focus of the development was on simple maintenance. We are very proud of the result.

The hydraulic blower can be completely opened within a very short time in a similar manner to opening a safe door. When you do this, the fan swivels out of the housing to enable access. All wear parts are optimally accessible and can be checked and replaced if necessary in a simple manner.

The hydraulic system is safely protected from overheating using a single large-volume oil cooler.

The driver's cab can easily be hydraulically opened for maintenance purposes. This now means that the engine and its accessories are simply and easily accessible for the service fitter.



Material loading
as required



Throwing distance - infinitely variable

Unloading to the front or to the rear



With the Chippertruck you have a choice of how the woodchippings should be discharged: via the delivery pipe or the outfeed conveyor.

A new standard fitting for the HEM 583 onwards is the centric alignment of the hydraulically-driven blower. This results in two major benefits.

The speed can be infinitely varied independently of the chipper drum. The result is that the fuel consumption is reduced, there is less wear on the blower and the gentle outfeed improves the woodchipping quality. Furthermore, the centric alignment of the blower enables woodchip transport in both directions - the perfect solution for use in restricted spaces.

People who have enough space and place considerable value on the woodchipping quality can also equip the Chippertruck with a rear-fitted outfeed conveyor. This solution requires less drive power compared with the blower, and this is then reflected in a higher throughput rate. On top of this, less dust is created if chipping is carried out with a conveyor belt.



JENZ combined cooler



Chippers often work in a dusty environment and at high outside temperatures. A clean cooler is indispensable for permanent high performance.

A newly developed combined cooler is now available as an option to improve the cleaning facilities compared with the standard original. In this system, continuous cooler fins which are arranged at greater spacing compared with the original are used. This cooler can simply be blown out from the front using the air hose provided.

With this system all the cooler connections and bearings remain at the MAN original specification and have not been changed.

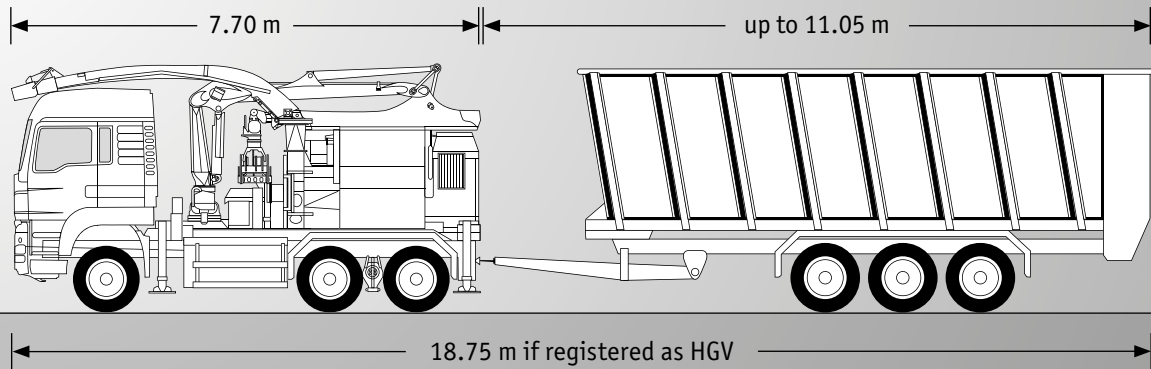


Logistics



The label "Chippertruck" is an obvious association of words. In this case, truck means transport and stands for optimum transport logistics. The Chippertruck provides the best preconditions for this purpose with its compact construction, comparably low weight, high transport speed including motorway approval and the comfort of a large and comfortable driver's cab. Further economic bonuses are provided by its excellent low fuel consumption and extremely fair costs for tyres and inspections.





A Chippertruck can be registered either as an HGV or as a self-propelled working machine depending on preferences. Registration as a self-propelled working machine is cheaper in terms of tax, but results in restrictions on transport opportunities. If, in contrast, the Chippertruck is registered as an HGV, the owner has all the facilities of a powerful HGV towing machine available and can use the full range of transport facilities as allowed by the relevant road traffic registration either for woodchipping transport or for other tasks.

Technical data for HGVs Applies to Germany only

	3 axles	Cert. of exemption §70 StVZO
Admissible overall weight	26000 kg	27500 kg
Admissible axle load rear	19000 kg	20000 kg
Admissible drawbar load (the drawbar load increases the overall weight and the axle load on the rear axle. Admissible loadings must be observed!)	1000 kg	-
Admissible overall vehicle length (single vehicle)	12 m	-
Admissible overall vehicle length (tractor + trailer)	18 m	-
Permissible overall weight (tractor + trailer + load)	40000 kg Vehicle combinations with more than 4 axles	-
Possible trailer	Turntable trailer (without drawbar load)	
	rigid drawbar (with drawbar load)	
	Self-propelled working machine (LoF) Towing hitch only for towing trailers in "LoF" operation, Overall length up to 18.00 m	
Registration*	HGV Overall length up to 18.75 m	
	Special vehicle operation in "LoF operation" and any other deployments.	

All information without legal liability!

*Details or other approval types in acc. w. usage type must be clarified with the responsible registration office.

Specifications

	HEM 561 R-Truck	HEM 583 R-Truck/Cobra	HEM 593 R-Truck/Cobra
Performance potential			
Fragmentation of hardwood up to (cm)	45	45	45
Fragmentation of softwood up to (cm)	56	56	56
Throughput up to approx. (lcm)	140	200	220
Draw-in opening			
Draw-in width (mm)	1000	1200	1400
Draw-in height (mm)	650	680	680
Fragmentation unit			
Drum diameter (mm)	820	820	820
Number of blades, half-fitting (full)	10 (20)	12 (24)	14 (28)
Material outfeed			
Mechanical blower outfeed	●	○	○
Hydraulic blower outfeed	○	●	●
Conveyor outfeed	○	◐	◐
Main drive			
Standard diesel motor	MAN, Euro 6c	MAN, Euro 6c	MAN, Euro 6c
Power in kW / HP	265/360	368/500	368/500
Drive type	via ADEC	via ADEC	via ADEC
Transport position dimensions			
Length (mm)	7500	7700	7700
Width (mm)	2550	2550	2550
Height (mm)	3950	4000	4000
controller			
easy2	●	●	●
DIP	●	●	●
Automatic overload control	●	●	●
Draw-in speed preselection	●	●	●
15-channel radio remote control	◐	◐	◐

All data is based on the basic machine version and should be considered as an approximation.

● Included in standard machine delivery ◐ Option, available at extra cost ○ Not available



HEM 561 R-Truck






HEM 583 R-Truck



Specifications

	HEM 561 R-Truck	HEM 583/593 R-Truck	HEM 583/593 Cobra
Wheel formula			
6x4-4 BL 	●	●	○
6x6 BB 	●	●	●
Weight			
Technically admissible overall weight	30000	33000	33000
Suspension			
Front axle	leaf-sprung	leaf-sprung	leaf-sprung
1st rear axle	leaf-sprung	leaf-sprung	leaf-sprung
2nd rear axle	air-sprung	air-sprung	leaf-sprung
Axles			
Number of axles	3	3	3
Wheelbase (mm)	3600	3600	3600
Top speed (km/h)	80	80	80
Driver's cab			
Version	LX with mowing window	LX with mowing window	Cobra rotating cab
Supports			
Version	2-point Epsilon GIRX39	2-point Epsilon GIRX39	2-point Epsilon GIRX39
Fuel tank			
Diesel (litres)	680	680	680
AdBlue (litres)	60	60	60
Turning circle			
Radius (in m)	8,2	8,2	10,0

 Steered axle, driven
  Driven axle
  Steered axle, not driven

HEM 583 R Cobra



HEM 593 R-Truck



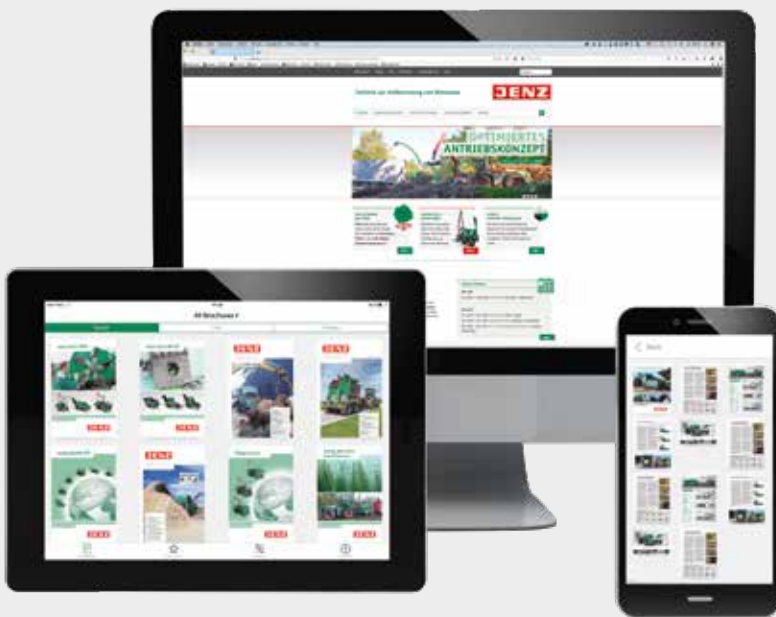
HEM 593 R Cobra



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