

MUS-MAX[®]

demonstrates competence in chipper construction.

WOOD-TERMINATOR



High-tech mobile chopping machines

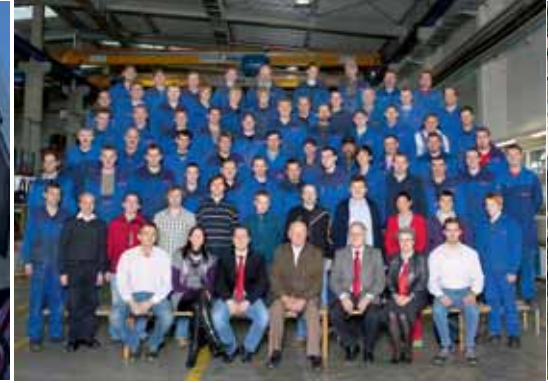
CRANE-FED, MOBILE WOOD-CHOPPING MACHINES

The drum chopping machines process logs, treetops, residual wood and shrubbery to produce high-quality wood chips.

Feed opening (w x h):	max. 114 x 75 cm
Tree diameter:	max. 75 cm
Wood chips output:	max. 300 m ³ /hour

Drive:	diesel engines, trucks up to 750 HP and tractors up to 500 HP
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The milestones of our corporate history:

- 1859 The company originates from the blacksmith's shop in the market town of Groß St. Florian established by Karl Gutjahr I. in the year 1859.
- 1920 The blacksmith's shop is taken over by Karl Guß and his wife Aloisia.
- 1925 After his death, his wife continues to run the blacksmith's shop on her own.
- 1926 Aloisia Guß marries the master blacksmith Karl Steindl.
- 1932 Cäcilia Halbauer is adopted. Large quantities of carts, ploughs and harrows are manufactured.
- 1952 Daughter Cäcilia marries the master blacksmith Erich Urch sen. The blacksmith's shop of the market town gradually develops into an agricultural machinery and trading company.
- 1967 Erich Urch sen. purchases a commercial building from the parish prebend in Groß St. Florian and builds a workshop with a petrol station there in the subsequent years.
- 1974 Together with his father, Erich Urch jun. develops and markets screw conveyors, maize mills, silo rotary cutters and many more.

- 1975 The brand MUS-MAX is created.
- 1979 A further production hall is put into operation. Staff: 25 employees.
- 1986 After successful sales in Yugoslavia, Switzerland and in the Federal Republic of Germany, export is extended to Sweden and Italy as well.
- 1988 A further two-storey production hall with 1,500 m² is put into operation. The production range is extended by full-corn facilities and wood chip blowers.
- 1989 Erich Urch sen. leaves the company for

- his well-deserved retirement. Erich Urch jun. and his wife Helene run the company together. Another extension is built.
- 1993 The first wood-chopping machine is developed.
- 1994 State-of-the-art laser cutting technology makes its arrival. The largest silo plant in Europe with a silo space of 5,000 m² and 12,000 fattening pigs in the Czech Republic is supplied.
- 1997 "Wood-Terminator 8" mobile wood chopping diesel generators are developed and marketed successfully.

Financial data

Currently MUS-MAX has a staff of 80 people. The turnover was increased by approx. 15 % over the past years.

Especially in export, the sales figures have increased in the new EU member countries. State-of-the-art production equipment, a high degree of automation and the use of high-quality materials and raw materials guarantee an extremely efficient production process and the quality for which MUS-MAX machinery is renowned.

In Europe, the company has 27 carefully selected, first-rate distribution partners in 22 countries. They ensure an optimum service and a fast, smooth spare parts supply. An above-average commitment in the field of research and development and/or numerous patents and innovations made MUS-MAX one of the technology and market leaders in the sector of wood chopping machinery in the whole of Europe.

The MUS-MAX service team

An in-depth technical introduction during the start-up of machinery enables the safe and optimum use of all functions. If technical problems with operation of machinery occur, however, our

**TELEPHONE
HOTLINE +43 (0)3464 / 2252**

will be pleased to help you (Monday-Thursday from 7.00 a.m. to 4.45 p.m./Friday from 7.00 to 12.00 a.m.).

Experienced MUS-MAX technicians try to localise malfunctions on the telephone and to eliminate reasons for the breakdown of machinery. In that way, costly and unnecessary downtimes are reduced to a minimum. For a fast repair of machinery, our distribution partners (we have 27 service points in 22 countries) keep ready the most important spare parts and wear parts.

SERVICE

Here some purchase criteria

- What kind of material do you intend to chop?
- What trunk diameters are to be chopped?
- What is the planned annual quantity (cubic meters of loose chips)?
- What machine dimensions are necessary?
- Where do you intend to use the machine (in the forest, in the mountain forest, on set-up sites)?
- For what terrains must the machine be suitable?
- What are your chopped material customers (G30/small heating systems or G50/heat-and-power stations)?
- How many kilometres do you have to drive to get to your customers?



- 2003 The laser cutting machine Trumpf L 3050 is put into operation. Ing. Robert Urch joins the company.
- 2005 The wood chopper range is extended. The first wood chopping machines are exported to Lithuania, England, France and Sweden.
- 2006 In the period from 2006 to 2007, the company MUS-MAX invested almost 3 million Euros in a new assembly shop II (approx. 1,600 m²) on the extended

- company site. Total surface: approx. 5,000 m².
- 2007 Successful exports to Ireland, Portugal and Slovenia.
- 2008 Strong sales growth in Spain, Poland, Hungary and Croatia. New truck with 23-m crane.
- 2009 150 years – our “anniversary year”, new truck 416 and the new laser cutting plant Trumpf 5030 is installed
- 2010 New export country: Finland
- 2011 Reconstructed hall, new turning machine



Years of application experience have gone into the machinery range of MUS-MAX

The series comprises the following basic types of crane-supplied mobile wood chopping machinery for the processing of biomass – with the Wood-Terminator 11 NMV at the top. The large range of additional equipment variants enables an optimum adjustment to a wide variety of requirements. As a result of the small number of processing steps and a short logistic chain, the individual machines ensure a fast and efficient processing of wood for energy production.

The series in detail:

WOOD-TERMINATOR 7 L Z

Feed opening (w x h): 64 x 50 cm
Wood chip output: up to 60 m³/Std.

WOOD-TERMINATOR 8 XL Z

Feed opening (w x h): 64 x 60 cm
Wood chip output: up to 90 m³/Std.

WOOD-TERMINATOR 9 XL Z

Feed opening (w x h): 82 x 70 cm
Wood chip output: up to 130 m³/Std.

WOOD-TERMINATOR 9 XL NMV

Feed opening (w x h): 82 x 70 cm
Wood chip output: up to 130 m³/Std.

WOOD-TERMINATOR 9 XL DLK

Feed opening (w x h): 82 x 70 cm
Wood chip output: up to 160 m³/Std.

WOOD-TERMINATOR 10 Z

Feed opening (w x h): 98 x 71 cm
Wood chip output: up to 160 m³/Std.

WOOD-TERMINATOR 10 NMV

Feed opening (w x h): 98 x 71 cm
Wood chip output: up to 180 m³/Std.

WOOD-TERMINATOR 10 DLK

Feed opening (w x h): 98 x 71 cm
Wood chip output: up to 220 m³/Std.

WOOD-TERMINATOR 10 DLB

Feed opening (w x h): 98 x 71 cm
Wood chip output: up to 260 m³/Std.

WOOD-TERMINATOR 10 XL Z

Feed opening (w x h): 98 x 75 cm
Wood chip output: up to 180 m³/Std.

WOOD-TERMINATOR 10 XL NMV

Feed opening (w x h): 98 x 75 cm
Wood chip output: up to 180 m³/Std.

WOOD-TERMINATOR 11 Z

Feed opening (w x h): 114 x 75 cm
Wood chip output: up to 200 m³/Std.

WOOD-TERMINATOR 11 NMV

Feed opening (w x h): 114 x 75 cm
Wood chip output: up to 200 m³/Std.

Our sales team will be pleased to provide further information or to demonstrate machinery.

■ Mankind and climate

In the past, people brought about largely only local and regional changes through their interventions in nature. Through the artificial greenhouse effect, mainly caused by the burning of gigantic quantities of fossil energy carriers, mankind changes the ecosystem of the Earth on a global scale.

The tornado catastrophes in the USA and Asia at the latest have shown that mankind is partly to blame for the climate change and so the dramatic increase in catastrophic phenomena and how susceptible our current energy system is as a result. Turning to renewable energy carriers seems to be top priority right now.

■ What are the imminent dangers?

- Rise in temperature by 1.4 to 5.8 degree centigrade.
- Rise of the sea level by 9 to 88 cm.
- Increasing intensity of extreme weather conditions (example: heavy rains, storms).
- In part clearly increased intensity of precipitations, partly more frequent aridity and drought.
- Moving up of the winter snow cover by 300 metres.
- Drastic retreat of alpine glaciers.
- Loss of the protective function of alpine forests (avalanches, changed mix of species, migration and/or extinction of plant and animal species).
- Risks to human health resulting from increased climatic stress brought about by extreme weather conditions and newly developed pathogens.
- Increased immigration pressure on people from regions that are especially affected by climatic changes (climate refugees).

■ Heating costs

Wood is the cheapest fuel! At present, you can save up to 50% of your running heating costs when using wood fuels. Over the past years, the crude oil prices have doubled, the fuel oil prices develop in parallel to this for the most



part, and the natural gas prices as well with a certain delay. A development which is certain not to change in view of the general conditions: Fossil resources are getting scarce, the hunger for energy keeps growing, and fuel oil production in trouble spots is extremely unstable and susceptible.

■ Wood chips

■ Energy from local forests

Wood chips are made from wood chopped up with machines ("wooden chips") in the size range from 1 mm to 10 cm. As a rule, these are less expensive types of wood that are not used for further processing and are chopped up - undergrowth, wood from thinning-out, treetops, residual wood left after cutting, sawmill by-products, wood residue, end pieces, among others.

Short-rotation forests will become increasingly more important in the future as well, also "tree plantations" with fast-growing timber that can be cut every 4 to 5 years and is used only for energy production (energy forests).

■ Quality criteria

In the first place, they are distinguished on the basis of the size of the chips (nominal length). For automatic boilers - and this is standard for wood chip systems already - mainly the fine wood chips (G30: diameter 2-3 cm, max. 8 cm long) are important. The small nominal length ensures that the fuel can easily be conveyed

from the store into the boiler by means of a screw conveyor.

As far as the quality of the chips is concerned, the water content is the decisive criterion in the first place. The drier the wood chips, the higher the calorific value and the better for storage. The range of quality classes here ranges from "freshly cut" (W50: 40 to 50 % water content) to "air-dry" (W20: water content less than 20 %).

Furthermore, the type of wood naturally plays a decisive part. The wood chip quality G50 (diameter 3-5 cm, max. 12 cm long) is ideally suited for heat-and-power stations.

■ Comfortable and versatile

Wood has been used for heating for thousands of years. Wood is a renewable resource. Many other types of energy bring even more hunger in the world.

From now on, wood chips can be conveyed dust-free into the storage rooms by means of a screw conveyor and the ejector. Wood chip blowers with electric motors or tractor-driven ones are used as well.

Wood chip systems are used in the field of small systems (example: one-family home) as well as in biomass heat-generating stations which supply individual buildings or complete local and/or district heat supply networks.

■ The lowest possible price

Wood chips are the cheapest raw material by a wide margin, even among the meanwhile unmatched low-priced wood fuels!



■ Customer: Franc Hartman



■ Customer: Richard Resch



■ Customer: Franz Lindner



■ Customer: Alois Kapaurer



■ Customer: Walter Marchsteiner



■ Customer: Franz Winter



■ Customer: Dipl.-Ing. Rudolf Beno



■ Customer: Zerko GmbH

The brand MUS-MAX is the byword for quality and reliability. The aim of this innovation is to make our customers even more successful by means of this product.

It is important that customers earn money with the machine and are successful in the financial sense of the word. And this is why we integrate the ideas of our customers when implementing improvements. In the field of research and development, many patents, innovations with regard to electronic and hydraulic systems, material, processing and painting technology ensure progress in production.

■ PRODUCT INNOVATIONS

Wood-Terminator WT 9 XL and WT 30

1. Process box/CAN bus system

- Fast, electronic switching operations for Danfoss hydraulic feed system
- Automatic feed rollers – reversing control
- Operating hours counter for up to 10 customers a day
- Feed conveyor speed indicated on the display in %
- Fine wood chips mode – coarse wood chips mode
- Maintenance intervals easy to read
- Operating temperature indicator
- Foot pedals: Every desired function of the chopping machine can be realised by means of the foot pedals

2. Upper feed rollers

- Large-scale inside hydraulic drive (planetary gear unit)
- Aggressive feed claws
- No loss of wood chips through lateral slits in the machine

3. Bottom feed rollers

- Drive shaft with clamp fixing
- Take blows and continuous load easily

4. Screw conveyors

Extra-strong, thick-walled, low-wear screw conveyors for chopping material supply to blower.

5. Wear plates

Novel wear plates in the blower and on the blade – made of special material – their service



Replacing of knives with block



Knife grinding device



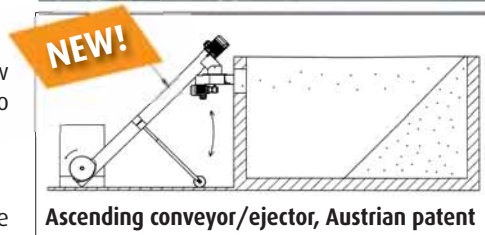
Ejector flap



Process box



Foot pedal



Ascending conveyor/ejector, Austrian patent

life is at least double the previous number of hours.

6. Chopping drum

- Low chopping drum speed
- Clean, square wood chips with small portion of fines

7. Chopping knives

Knife cutting over 30 mm lift enabled by 20 mm thick chopping knives. Result: nice pieces of wood chips with a clean-cut structure (3 cm x 5 cm).

8. Easy changing of knives

- Easy changing of knives due to changeable blocks with stop screws
- Ideal foreign body protection - patented
- NEW: electrically operated knife grinding device – easy to use

9. Ejector flap electrically adjustable

With electric shifting motor and gas-pressure shock absorber – for a precise adjustment of the ejected stream of material – all wear plates can be replaced.

10. New paint technology

- Bubby Cleaner cleaning machine
- Sandblasting
- Two-component paint
- KTL power coating

11. Ascending conveyor (ejector for filling bunkers with wood chips)

Filling device for filling storage space with solid fuels (wood chips, pellets, maize cobs,...). The chip tray is filled by means of a tipper or a push-off trailer. The wood chips are conveyed up via the inclined conveying screw. There is a new ejector under the discharge tube of the screw. This ejector hurls the wood chips in the bunker horizontally and fills the space almost dust-free. Thanks to the swivelling design, the storage space can be filled up completely. Outputs of up to 60 m³ per hour are no problem. Conveying heights up to 8 m possible, discharge range adjustable to up to 6 m.



■ Customer: Johann Nassl

I use my fourth MUS-MAX chipping machine already. The new WT10 with NMV MAN truck engine drive can be adjusted to a wide variety of chipping applications (shrubbery, treetops, logs, ...) in a very flexible manner and convinces with its small weight, the economic diesel consumption and the small turning radius.



■ Customer: Franz Huber

In close cooperation with the MUS-MAX technicians, I was able to fulfil my special requirements for every wood chopping machine (I got my sixth chopping machine this year already – the WT 11 Z). I am of the opinion that the chopping quality and the durability of the WT chopping machines are currently top of the class in Europe.



■ Customer: Hannes Schirrhofer

This powerful machine WT 9 DLB from the manufacturer MUS-MAX withstands the permanent load from the diesel engine. The conveyor is low-wear and energy-efficient. The wood chips contain few fines. The cooperative teamwork and the service close at hand justified my decision to buy it.



■ MUS-MAX technology partner AWARD

Customer suggestions implemented by us are honoured with awards as a mark of recognition.

SPECIAL-PURPOSE MACHINERY

We make more out of your mobile chopping machine!

The close cooperation with the users enables MUS-MAX, like no other manufacturer, to fulfil the complex requirements of each single customer. The area of application of the machine is considerably

extended by means of a wide variety of additional equipment and special-purpose machine variants. Special attention is paid to a maximum of comfort for operation.

Satisfy yourself as to the flexibility and the power of MUS-MAX and the numerous critical advantages of the MUS-MAX drum hacker as well as the optimum price-performance ratio!



WT 8 on logging trailer



WT 10 Z with cyclone



WT 8 XL mobile hacker for beginners from 130 HP onwards



WT 9 XL mobile hacker for tractors from 180 HP onwards



WT 10 DLK. WT 10 on carriage with diesel engine CAT C18 700 HP, chopping machine with slewing ring



FURTHER SPECIAL-PURPOSE EQUIPMENT

Hinged belt for all types

Length 2.10 m, 2.40 m or 2.70 m

Slanting belt WT 8 XL

Horizontal belt WT 9 XL
Length 3.00 m and 1.2 m trough

For WT 10 diesel engine chopping machine:

Length of belt 3.10 m and 1.2 m trough

WT 11 Z

Length of belt 2.7 m

Feed nozzle with feed rollers

Remote control – chopping functions

Remote control – ejector

Swivel drawbar

And many more



WT 10 on carriage with diesel engine John Deere 600 HP, chopping machine with slewing ring



WT 9 XL DS with conveyor belt



WT 11 Z with blower and ejector for tractors from 350 HP onwards



WT 10 DLB Longitudinal machine conveyor discharge (conveyor discharge)



Perfect wood chips



Tractor chopping machine WT 7 L Z

The cost-efficient low-end model!

This small tractor chopping machine (for manual and crane operation) is ideally suited for tractors with 75 to 170 HP and is characterised especially by easy operation, quick maintenance and easy use.

Chopping output: up to 60 m³/hour

Feed opening (w x h): 64 x 50 cm
Tree diameter: max. 50 cm



The low-end model - NEW



The chopping rotor of the "new" WT 7 LZ has a larger rotor diameter than the previous "old" WT 7. As a result, the chopping machine can chop logs with a thickness of 50 cm. The large flywheel mass of the rotor guarantees easy chopping with less powerful tractors with little power requirements.

Sturdy chopping knives can be used for hardwood and quick-change knife blades for softwood and shrubbery. A patented foreign matter protection with folding chopping knife stop blocks and the supersized rotor bearing prevent major damage to the rotor.

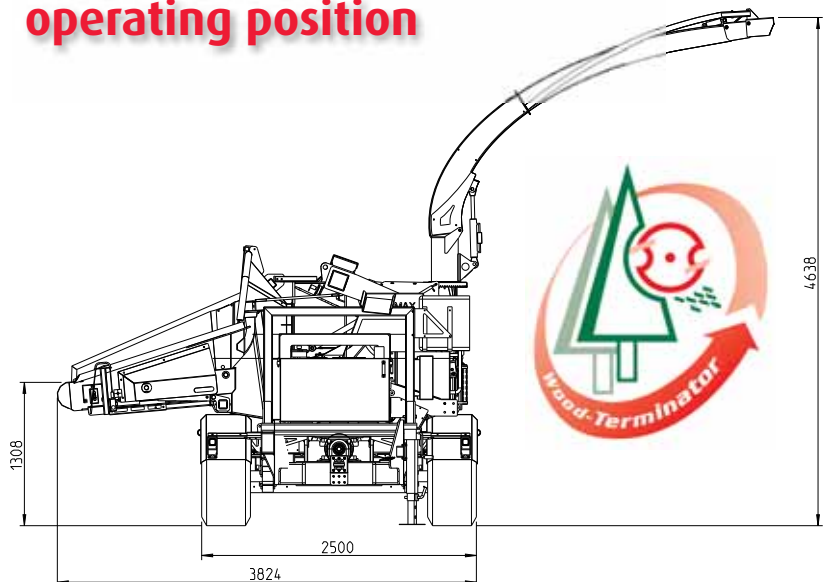
Control panel process box



Aggressive feed roller



Dimensions in operating position



Infeed "like a crocodile"

A large, aggressive upper feed roller with a feed belt with a length of 2.2 m with roller ensures the reliable "swallowing" of the chopping material. The large feed opening (w = 64 cm; h = 50 cm) ensures trouble-free, fully automatic chopping even of scrap wood, shrubbery and treetops. The machine also chops tree logs and hardwood with a diameter of up to 50 cm.

Separate on-board hydraulic system

Every WT 7 LZ tractor chopping machine has an enclosed hydraulic unit. Separate gear pumps ensure feeding, the lifting of the rollers, the lifting of the nozzle and the tower function. Gears and planetary gears with powerful reduction are driven by powerful oil engines. Reliable Danfoss PVG valves control infeed progressively. The hydraulic system has been designed for continuous operation in summer.



Ejection stream carefully targeted



Road transport position

WT 7 LZ with state-of-the-art safety standard

When the cable-type shut-off device on the feed nozzle is activated, the feed belt is stopped very quickly during manual operation, a manual switch for "belt in - stop - return" has been provided. For crane operation, the cable-type shut-off device is pushed back with a couple of manoeuvres and put out of operation. During crane operation, however, a seat switch has to be used to switch off the feed belt. During crane operation, the remote control (process box) can be used to activate all important functions from the tractor cab ergonomically. In addition, emergency stop switches have been installed on both sides of the feed nozzle.

Neat hydraulic system



Easy maintenance



Cable-type shut-off device



Fast switching to crane operation



Easy screen change



Precisely cut, clean wood chips

The chopping machine allows a variable use of chopping knives or exchange blades. Exchangeable laser-cut Hardox screen plates with square holes ensure wood chip quality G30, and the chopping length can be adjusted to 2, 3, 4 or 5 cm. Underneath the screen, 3 generously dimensioned conveyor screws ensure a continuous chopping material supply to the blower. The powerful blower output can be adjusted to the tractor power by means of replaceable wear plates on the blade in each case. In this feed size class (w = 64 cm; h = 50 cm), the mobile chopping machine WT 7 LZ is far ahead of its time. With the state-of-the-art electronic, load-dependent control, the machine was designed to be easy to use and powerful. A long useful life is guaranteed. All wearing plates in the blower and the ejector can be replaced very easily. The Wood-Terminator 7 LZ is quite simply the superior tractor chopping machine of its performance class!

Arguments that carry conviction

- user-friendly
- screen change – very easy
- easy maintenance
- reliable
- robust design
- long useful life
- perfect wood chips
- low diesel consumption



Technical data WT 7 LZ

Feed opening (w x h):	cm	64 x 50
Tree diameter max.:	cm	50
Chopping output up to max.:	m ³ /h	60
Chopping knives or blades:	pieces	8
Ejection height:	max m	4.64
Horizontal conveying:	max. approx. m	8
Machine dimensions (l/w/h) m		5.45 / 2.50 / 3.21
Dead weight	from t	7 – 7.5
Feed chain with roller	m	1.2 or 2.2
Power requirement tractor	kW	55-125
PTO speed	1/min	750 or 1000
Axles	units	1 or 2
Hooked up		top or bottom

Cable remote control load-controlled electronic feed belt switch-off device with operating hours counter and daily operating hours counter for 10 customers

Easy screen replacement: Just loosen two screws and lift the cover (secured with gas spring):



First-rate wood chips: uniformly sized pieces, few fines – chopping knives or exchange blades can be used



All our equipment and machinery are constantly tested and further developed. Subject to technical alterations and output data changes without notice. © 2011 by MUS-MAX/Austria - photographs: MUS-MAX.at





Tractor chopping machine WT 8 XL Z

The successful model for pros!

With its high-tech electronic equipment, the WT 8 XL Z once more confirms the leading position of MUS-MAX technology for the 200 HP class of tractors.

Chopping output: approx. 90 m³/hour

Feed opening (w x h): 64 x 60 cm
Tree diameter: max. 60 cm



Developed for users who bank on cost-efficient technology!

The state-of-the-art CANBUS electronic system and the load-dependent feed belt control confirm the success of this development. You can switch from coarse to fine chopping in no time at the touch of a button. Furthermore the CANBUS electronic

system has the advantage that the board is installed vibration-proof and requires little space in the control box. In addition, a very thin weather-proof cable with steel plaiting and a small, handy ergonomic process box are used.



Arguments that carry conviction

- **First-rate feed:**
Decisive advantages of this machine are the large rotor diameter and the amply dimensioned feed (w = 64 cm, h = 60 cm).
- **First-rate lift:**
The longest chopping knife lift and the largest screen surface of this series of chopping machines carry conviction.
- **First-rate maintenance:**
As there are only eight chopping knives, they can be changed and sharpened fast. An amply dimensioned, thick-walled discharge screw and a blower equipped with easily replaceable wear plates confirm the maintenance-friendliness of this machine.
- **First-rate wood chips:**
Best wood chip quality, and as a result: clean, square wood chips without fines – with reduced diesel consumption.
- **First-rate protection:**
The patented protection against foreign bodies for the chopping knives (against steel parts, stones,...) has proven successful and prevents major damage to the chopping drum.

Technical Data WT 8 XL Z

Feed opening (w x h)	cm	64 x 60
Tree diameter	max. cm	60
Chopping output up to max.	m ³ /hour	90
Chopping knives	units	8
Discharge height	max. m	4.6
Horizontal conveying	max. m	6
Machine length	m	5.6
Machine width	m	2.5
Dead weight (w/o crane) approx.	t	8.7
Dead weight (with crane) approx	t	10.3
Feed chain/Roller length	m	2.4
Power requirement tractor	HP	130-220
Axles		2
Tyres		445/45-R19.5
Drawbar design	top/bottom connection with/without crane console	



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MUS-MAX®

WOOD-TERMINATOR 9 XL Z



Tractor chopping machine WT 9 XL Z

Start into a new dimension of performance

In all areas of application requiring maximum performance, the WT 9 XL Z provides evidence of its power in an impressive manner.

Chopping output: max. 130 m³/hour

Feed opening (w x h): 82 x 70 cm
Tree diameter: max. 70 cm



Even more efficient!

Thanks to a large rotor (diameter 900 mm) and a state-of-the-art electronic feed system, you can use tractors with approx. 200 HP to easily process whole trees with a diameter of up to 700 mm into high-quality wood chips for the first time. The chopped material is passed through the screen with only one turn of the rotor. The WT 9 XL Z has the largest screen surface of all chopping machines of this feed width class! And so it produces clean pieces of wood chips with little fine material.



Arguments that carry conviction

- **First-rate chopping knife anti-rebound system:**
Prevents damaging of the motor.
- **First-rate chopped material according to quality standard:**
ÖNORM M7 133 or EN/TSS 14961.
- **First-rate efficiency:**
With 200 HP, low diesel consumption, high throughput.
- **First-rate feed:**
Larger upper roller with ripping devices, bottom roller rigid design. Aggressive on shrubbery and residual wood left after cutting.
- **First-rate leak-tight chopping machine:**
Machine loses no chopped material.
- **First-rate worm gear:**
Hydraulic, over-dimensioned, maintenance-free.
- **First-rate rotor:**
10 staggered chopping knives, smooth operation.
- **First-rate screen change:**
Laser screen easy to change, from G30 to G50 in 5 minutes.

Technical Data WT 9 XL Z

Feed opening (w x h)	cm	82 x 70
Tree diameter	max. cm	70
Residual pieces diameter	max. cm	70
Chopping output up to max.	m ³ /hour	130
Chopping knives	units	10
Discharge height	max. m	4.8
Horizontal conveying	max. m	6
Machine length	m	5.80
Machine width	m	2.5
Dead weight	t	9.20
Feed chain/Roller length	m	1.1 or 2.7
Power requirement tractor	HP	180-300
Axles		2



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This powerful tractor chopping machine WT 9 XL Z is the ideal solution for the average HP class of 180 to 250 HP – hard-wearing - stable – cost-efficient!

This machine enables the loading of 25 to 30-m³ trailers within a short period of time so that agricultural businesses can use the tractors and trailers they already have. The fast changing of the knives (10 units) and the even faster changing of the screen ensure high-quality wood chips (G30 and G50). The aggressive roller feed ensures an enormous throughput rate even for shrubbery and tree-tops. The large rotor diameter ensures clean wood chips and a high level of efficiency with a low diesel consumption.



Wood chopping machine WT 9 XL DLK – mounted on articulated vehicle – with wood splitter



With slewing ring, can be swivelled 90° to the left and to the right. Small weight, low diesel consumption, little wear and tear.

Technical Data **WT 9 XL DLK**

Feed opening (w x h)	cm	82 x 70
Tree diameter	max. cm	70
Chopping output up to max.	m ³ /hour	160
Chopping knives	units	10
Discharge height	max. m	5.1
Horizontal conveying	max. m	10
Machine length	m	6.6
Machine width	m	2.5
Dead weight (w/o crane) approx.	t	12
Dead weight (with crane) approx	t	18
Feed chain/Roller length	m	3
Engine 6090	HP	405 (298 kW)
Axles		2
Tyres		445/45-R19.5
Drawbar design	regular drawbar, swivel drawbar, articulated trailer	
on request		



A 405 HP John Deere engine drives the chopping machine and the timber crane. This compact design with a feed belt with a length of 3 m and a nozzle extension that is 1.5 m long is ideally suited for long treetops, processor waste and wood residue etc.



Tractor chopping machine WT 10 Z

Maximum output guaranteed!

In areas of application where conventional mobile chopping machines reach their limits, the WT 10 Z only just starts to warm up.

Chopping output: max. 160 m³/hour

Feed opening (w x h): 98 x 71 cm
Tree diameter: max. 70 cm



Optimum output and user-friendliness!

This versatile, mobile chopping machine devours thick end pieces as well as shrubbery (residual wood left after cutting). The WT 10 Z is very easy to manoeuvre and produces coarse G50 chopped material with square wood chips for heat-generating stations. This chopping machine produces a very small portion of fines in the chopped material and so very little fine dust. When you change the screen (5 min) and the feed, you can produce high-quality G30 chopped material for small heating systems.



Technical data WT 10 Z		
Feed opening (w x h)	cm	98 x 71
Tree diameter	max. cm	70
Chopping output up to max.	m ³ /hour	160
Chopping knives	units	12
Discharge height	max. m	5.2
Horizontal conveying	max. m	8
Machine length	m	5.8
Machine width	m	2.5
Dead weight w/o crane from	t	10.5
Dead weight with crane from	t	13
Feed chain/Roller length	m	1.1 or 2.7
Power requirement tractor	HP	270-400
Chassis with 2 axles		4 wheels, w 445/h 900



Arguments that carry conviction

- **First-rate heavy-duty blower:** Discharge output adjustable, wear plates of different size can be used.
- **First-rate automatic reverse system:** Danfoss PVG hydraulic valve for automatic reversing system for feed conveyor.
- **First-rate sensor:** Speed sensor on the blower, faster switching response, easy on the V-belt drive on the blower.
- **First-rate electronic box:** Process control CAN BUS system for all functions (no relays and contactor box controls).
- **First-rate performance:** Large tractors with up to 400 HP serve as drives.
- **First-rate feed:** Planetary drive in the upper roller, aggressive feed for shrubbery and residual wood left after cutting.
- **First-rate feed conveyor:** Length: 2.7 m – swivelling for transport position.
- **First-rate ejector:** All functions electric, cyclone – dust-free chopping.
- **First-rate bottom connection:** Improved traction of the tractor.
- **First-rate chassis:** Spring-loaded axles, extra-wide tyres, easy to manoeuvre in the forest.
- **First-rate screen change:** Remove 3 screws, 5 minutes' work, continue chopping. Can be turned round if worn.



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Diesel engine chopping machine WT 10 DLK



Maximum power and performance!

The WT 10 DLK impresses with a variety of technical highlights that are typical of a Wood-Terminator.

Chopping output: approx. 220 m³/hour

Feed opening (w x h): 98 x 71 cm
Tree diameter: max. 70 cm

Lifting crane cab. For chopping yards where timber is stored up high!

A safe and clearly arranged deluxe workplace!

The WT 10 DLK starts working where others have to give up. Whole trees with a diameter of up to 70 cm are easily pulled in and chopped up smoothly.

The machine can quickly be switched from G30 fine wood chips to G50 coarse wood chips for heat-generating stations. As a result of the enormous continuous output, it is necessary to remove the material by means of containers and/or large trailers or to chop onto large cone-shaped heaps or on covered storage yards. The foldable wood splitter serves to split trees with a diameter of 1 m can easily. Splitting power: 27 t.



Technical data WT 10 DLK		
Feed opening (w x h)	cm	98 x 71
Tree diameter	max. cm	70
Chopping output up to max.	m ³ /hour	220
Chopping knives	units	12
Discharge height	max. m	6.3
Horizontal conveying	max. m	8
Machine length	m	6.6
Machine width	m	2.5
Dead weight w/o crane from	t	13
Dead weight with crane from	t	16
Feed chain/Roller length	m	2.7 or 3
Power requirement diesel engine HP		450-700
Chassis with 2 axles		4 wheels, w 445/h 900
Truck construction		fixed (DS lateral feed) or with slewing ring (DLK)

WT 10 DLK (longitudinal machine/3-m feed belt)

Are delivered with a swivel slewing ring (WT 10 DLK) most of the time. The chopping machine can be swivelled by 90° to the left and to the right and is very flexible to use as a result. The 600 HP John Deere engines ensures an optimum throughput and a modest consumption.

CAT-18 engines with 700 HP are set up as well.



Arguments that carry conviction

- **First-rate sensor:**
Speed sensor on blower, quicker switching response, easy on V-belt drive on blower.
- **First-rate knife grinding device:**
Grinding device mounted quickly, electric motor with cup-shaped disk ensures short grinding time.
- **First-rate foreign-matter protection:**
Chopping knife upsets replaceable stop screw block, quicker and less expensive to repair.
- **First-rate performance:**
Up to 240 m³ wood chips G50/hour, large screen surface – maximum throughput.
- **First-rate feed:**
Planetary drive in the upper roller, machine without slits, aggressive feed.
- **First-rate drive:**
Pneumatic belt tension clutch, V-belt tension – always the same pressure.
- **First-rate rotor:**
12 staggered, robust knives – smooth operation, easy and quick replacement (winter-proof).
- **First-rate steel:**
Shaft material from aircraft technology.
- **First-rate efficiency:**
Unrivalled chopping output m³/hour for diesel consumption.
- **First-rate maintenance:**
Central lubricating system, few knife screws, wear parts easy to replace.
- **First-rate ejector:**
Can be slid out lengthwise 80 cm like a telescope, optimum filling of containers.
- **First-rate ejector flap:**
Linear drive for exact electrical adjustment of the discharge blade with gas-pressure spring, no vibrations, wear plates can be replaced.

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Diesel engine chopping machine WT 10 DLB: Thanks to its efficiency ahead of its time!

Extra-wide, extra-long, extra-powerful - an ideal stationary device for large heat-generating stations.

The WT 10 DLB (longitudinal machine/conveyor discharge) produces coarse wood chips (G50 and G80). Equipped with a conversion set, it can also chop material very finely (for the production of pellets). Thanks to radio control, it can be charged by means of a truck crane, an excavator or a wheeled loader, among others.



Arguments that carry conviction

- Conveyor discharge with extra-wide, 8 m long discharge conveyor.
- Little power required, little wear.
- Less fine material in the chopped material.
- CAT-C18 diesel engine with improved cooling capacity.
- Chopping output in continuous operation: up to 260 m³ wood chips per hour.
- Radio control: all CAT diesel engine start-stop functions on the console as well.
- Electrically controlled diesel cooler.
- Cartridge starter: automatically generates ether during cold start.
- Automatic fire extinguishing systems.
- Extension plate for the feed conveyor, advantage for logs.
- Radio control enables flexible loading of timber trucks, wheeled loaders and the like.



Technical data **WT 10 DLB**

Feed opening (w x h)	cm	98 x 71
Tree diameter	max. cm	70
Chopping output up to max.	m ³ /hour	260
Chopping knives	units	12
Discharge height conveyor	max. m	5.3
Machine length	m	9.5
Machine width	m	2.5
Dead weight w/o crane from	t	15.8
Feed chain/Roller length	m	3
Power requirement diesel engine HP		700
Chassis with 2 axles	4 wheels, w 445/h 900	



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New wood chopper concept "hack truck" with unrivalled efficiency

Environmentally friendly! "Euro-5 engine" – reduced diesel consumption

With this type of machine, the wood chopping machine is driven directly by the truck engine, and the powerful power take-off (PTO) is used in addition. The machine achieves a maximum chopping output with tree-tops, shrubbery and residual material from tree cutting in forests.

This design of the WT 10 on a truck has many advantages:

- Only the truck diesel engine runs – more powerful than tractors.
- Small dead weight: approx. 25 t, short design, easy to manoeuvre, off-road use

- Get to your customers more quickly, more flexible (80 km/h).
- Logistic advantage (feeding from the right in the direction of travelling).
- Free-view cab with air-conditioning system (less dust, less noise).
- Comfortable swivel seat with ergonomic joysticks
- With integrated wood splitter, tree trunks with a diameter of up to 1 m can be chopped.
- Snow chains easier to fix than on tractor.

Technical data **WT 10 NMV**

Feed opening (w x h)	cm	98 x 71
Tree diameter	max. cm	70
Chopping output up to max.	m ³ /hour	180
Chopping knives	units	12
Discharge height	max. m	5.2
Horizontal conveying	max. m	8
Machine length	m	7.8
Machine width	m	2.5
Dead weight with crane from	t	25
Feed chain/roller length	m	2.7
Power requirement tractor	HP	400-510
Available	on MAN or Mercedes truck	
New: also WT 9 XL	available as NMW type	



Timber crane with lifting crane cab



Short feed belt with long feed roller



Advantages: feed roller (aggressive feed, height-adjustable nozzle, driven roller at the beginning of the nozzle, the nozzle can be lifted and lowered during chopping, low maintenance costs (cost-efficient).

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Tractor chopping machine WT 10 XL Z

Easy to use and produces perfect wood chips!



The drum chopping machine Wood-Terminator 10 XL Z automatically chops up whole trees with relatively small power requirements.

Chopping output:
up to 180 loose cubic metres/hour

Feed opening (w x h): 98 x 75 cm
Tree diameter: max. 75 cm

The robust design and easy operation carry conviction!

The infeed has a larger and more aggressive feed roller than the WT 10. A load-controlled electronic system stops the feed belt very fast, backs up automatically and ensures smooth chopping operation. The feed belt does not slow down, which produces cleanly chipped pieces. The wide feed opening (1 m) is ideally suited for shrubbery and also has proven very

successful for tree trunks. The high clamping pressure of the upper feed roller ensures a good wood chip quality even with scrap wood. The fully automatic, safe operation of the chopping machine enables the crane operator to concentrate fully on supplying the chopping machine, which enables a throughput of up to 180 loose cubic metres.



Arguments that carry conviction

- **First-rate feed:**
Feed belt 2.7 m long; reinforced design; long useful life.
- **First-rate drive:**
Feed belt and bottom roller driven by separate hydraulic motors; powerful infeed.
- **First-rate chopping drum:** **PATENTED!**
The "multi-tool" rotor (diameter 940 mm) is a novel construction, and different chopping knives or knife blades can be used variably depending on the material to be chopped; knife blades can be re-sharpened.
- **First-rate crash protection:**
When foreign matter gets into it, the chopping knives destroy a replaceable metal body, which prevents major damage to the chopping drum.
- **First-rate screen change:**
The screen basket is subdivided and can easily be replaced by one person in a few minutes.
- **First-rate blower:**
New ejector blades with replaceable Hardox wearing plates - improved blower ejection performance.

Technical data **WT 10 XL Z**

Feed opening (w x h)	cm	98 x 75
Tree diameter	max. cm	75
Chopping output up to max. loose cubic metres/hour		180
Chopping knives	pieces	12
Discharge height	max. m	5.2
Horizontal conveying	max. m	8
Machine length	m	6
Machine width	m	2.5
Dead weight w/o crane from	t	12.5
Dead weight with crane from	t	15
Feed chain/roller length	m	2.7
Power requirement tractor	HP	270-400
Chassis with 2 axles		4 wheels, w 445/h 900



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Tractor chopping machine WT 11 Z

For demanding pros!

The WT 11 Z is simply unbeatable with a view to chopping quality and throughput rate for tractors up to 400 HP.

Chopping output: max. 200 m³/hour

Feed opening (B x H): 114 x 75 cm
Tree diameter: max. 75 cm



Welcome to the pros among wood chip producers!

The aggressive feed and the fast-responding electronic system enable trouble-free working. Whole trees with a diameter of up to 75 cm are pulled in without the crane operator having to lift the feed roller. The CANBUS process control never lets the feed belt slow down to maintain the desired chopping length for the wood chips and to obtain clean, chunky, rather square wood chips. The large feed width (1.14 m) is especially advantageous for shrubbery

or treetops. The high hydraulic surface pressure of the massive upper feed roller ensures nice, uniform chopped material (G30 or G50) even with residual wood.

The fully automatic, secure operation of the chopping machine enables the crane operator to fully focus on his charging work with the crane. This enables the smooth processing of up to 200 loose cubic metres of chopping material per hour.



Technical data WT 11 Z

Feed opening (w x h)	cm	114 x 75
Tree diameter	max. cm	75
Chopping output up to max.	m ³ /hour	200
Chopping knives	units	14
Discharge height	max. m	5.2
Horizontal conveying	max. m	8
Machine length	m	6.3
Machine width	m	2.5
Dead weight (w/o crane) approx.	t	12.9
Dead weight (with crane) approx.	t	15.3
Feed chain/Roller length	m	2.7
Power requirement tractor	HP	300-500
Axles		2
Tyres		445/45-R19.5
Drawbar design	top/bottom connection with/without crane console	



▲ 75 cm tree diameter – no problem!



▲ Large discharge width – first-rate blower!

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Arguments that carry conviction

- **First-rate feed belt:**
Contrary to competitors' products, the feed belt of this chopping machine is 2.7 m long so that 4-m logs stay on the belt when crane-fed and do not fall on the ground – unlike with other makes of chopping machines (belt: 2.4 m).
- **First-rate drive:**
This machine has no high-maintenance roller chain drives on the feed screws either, but maintenance-free hydraulic drive motors.
- **First-rate efficiency:**
The smooth operation of the chopping drum and the modern electronic system of the feed control go easy on the tractor and ensure a level of efficiency that is unrivalled to date.
- **First-rate protection:**
The patented protection against foreign bodies of the chopping knives (against steel parts, stones,...) has proven successful and prevents major damage to the chopping drum.
- **First-rate screen change:**
The screen basket is subdivided, is light-weight and is replaced very easily by one person in only a couple of minutes.
- **First-rate radio control:**
The carrier can easily operate the radio control for the ejection functions and completely fill the trailer, making work easier for the hacker crane operator.
- **First-rate blower:**
By means of the installation of an additional blower, the chopping drum speed can be reduced by 150 revolutions – with constant blower performance. Result: reduced diesel consumption.



MUS-MAX®

HACK-TRUCK



Hack-Truck High-tech mobile chopping machine

A pioneering concept.

**Simply unbeatable with regard to chopping output,
wood chip quality, cost-effectiveness and mobility.**

For the chopping machine types WT 9 XL, WT 10 XL and WT 11.



HACK-TRUCK: The innovative concept



As early as in the year 2004, Mus-Max and the company Lochner mounted the WT 9 wood chopping machine on a MAN truck. It was the first to be driven directly by the truck engine. The original truck diesel engine ensures optimum cost-efficiency and can be used for driving or chopping operation alternatively.

Power take-off NMV



The super powerful NMV drive is directly connected to the crankshaft of the engine.

It is suitable for continuous operation with a maximum engine torque and can be switched on or off in the cab. Power transmission to the power take-off is completely independent from the drive clutch.

NEW

- Blower hydraulic
- Speed infinitely variable
- High degree of mobility



Due to the small turning radius of the chopping trucks, it is very flexible to use on the site, and you can drive very quickly from one chopping site to the other. When you drive on, you can stay seated in the air-conditioned truck cab – this is really comfortable.

The greatest advantage of the truck is the vehicle speed of 80 km/h. The chopping truck is suitable for motorways and lets you get to your customers as quickly as possible. This saves you time – and time saves you money again.

Free all-round view and comfort for the driver

The sound-insulated XL cab is completely converted on the passenger side. The large safety glazing ensures a good view of the working area of the wood chopping machine and the stacked wood material. A specially raised ergonomic swivel seat with integrated joysticks

for crane operation in the armrests ensures extraordinary comfort and a comprehensive view for the operator. The control panel of the chopping machine was also adjusted ergonomically in such a way that accessibility is guaranteed in every seating position. The belt speed can be read off all the time, and the joystick can be used to adjust the ejection tower accurately.

It has a positive effect on the operator's health as well – due to less dust and noise. Furthermore the truck air-conditioning unit ensures agreeable working conditions in summer and in winter.



Crane cab height-adjustable

For specific customers who have to chop highly stacked timber, we offer the air-conditioned, height-adjustable crane cab. In addition to the ergonomic seat, this design offers the greatest and best all-round visibility for the operator.

For trucks, the small, cost-efficient M-cab can be used as well. This version is also an interesting alternative from a financial point of view.

WT 10: wood chopping machine with vertical conveyor device

This chopping machine has a vertical screw conveyor device for the vertical conveying of the wood chips. An amply dimensioned screw conveyor conveys the chopped material vertically upwards in a folding conveyor tube. A sophisticated system ensures that the wood chips find their way onto the conveyor belt in an unimpeded manner. There is a movable ejector flap at the end of this studded conveyor belt. The ejection range of the wood chips can be set with an adjustable belt speed and by means of the adjustable ejector flap. This vertical conveyor device works perfectly, and the wood chips are clean with very few fines. The chopping machine is very low-maintenance and all wearing plates and conveyor screws can be replaced quickly and easily.



The chopping machine WT 11 has a feed that is 1.14 m wide and "swallows" trees with a diameter of 75 cm. With the divisible screen and the intelligent hydraulic system, it can easily be adjusted for different wood chip qualities (G30, G50, G80). The new rotor can be equipped with robust chopping knives or replacement blades. The feed roller system plays in a league of itself with scrap wood as well.



The simple, low-maintenance, stable and safe design convinces every pro who wants to chop wood in an unimpeded manner.

Only the best timber cranes are mounted on the wood chopping truck. The range should be approx. 10 m and the working speed has to correspond to the chopping output of the chopping machine. The crane must be suitable for continuous operation and easy to maintain. Examples: Epsilon type M 110 L (R-9,7m), Epsilon type Q 170 L (R-10m), Penz type 14 L/HL (R-10m) or Cranap type FC 115 (R-10m) and others.



Different wood splitter types can be mounted on request. The splitters can be mounted on the wood chopping truck non-detachable or detachable.

Technical data	WT 9 XL	WT 10 XL	WT 11
Feed opening (w x h) cm	82 x 70	98 x 75	114 x 75
Tree diameter max. cm	70	75	75
Chopping output up to max. m ³ /hour	130	180	200
Chopping knives or blades pieces	10	12	14
Machine dimensions (l/w/h) approx. m	8.8/2.5/3.95	9/2.5/3.95	9.2/2.5/3.95
Chopping truck weight approx. t	26	27	28
Truck MAN type TGS HP	380-480	540	540
Mercedes type Actros HP	380-510	550	550

First-rate arguments

- Convincing mobility
- The simplest chopping machine NMV drive
- The best efficiency level of the truck engine directly to the chopping machine
- High degree of flexibility (80 km/h)
- Very easy to use / narrow curve radius
- A lot of comfort for the operator: less dust, less noise, good air-conditioning, optimum all-round visibility for the driver
- Top wood chips with few fines
- AD-Blue (Euro 5) – environmentally friendly according to new exhaust gas standard



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Wood chip blower

For the professional unloading of dump trucks!

Modern conveying blower for material to be chopped enable a relatively dust-free conveying process – safe and easy.

Output: up to 40 m³/hour



Practical application!

TROUGH-TYPE BLOWER: The sturdy trough-type helical blower with the robust helical design is easy to fill thanks to the low charging nozzle. Vertical heights of up to 25 m are possible for conveying. The nozzle extension board can be rearranged. All blades of the blower are electronically balanced.

SUCTION BLOWER: An ideal device for smaller heating systems. The blower can also be used for refilling wood chips from the chopping materials store to the discharge end. Available in the following versions: wood chip suction blower with electric motor (7.5 – 18.5 kW) or tractor (can be used with a hopper or a suction hose from the tipper slot or the ground).



TROUGH-TYPE BLOWER TECHNICAL DATA

Blower with 3-m charging nozzle:		
kW blower		7.5; 9.2; 11
kW screw		3
Tube Ø	mm	210
Conveying height	m	10
Conveying range	m	7
Trough length	m	3
Output	m ³ /hour	20-22
Blower with 3-m charging nozzle:		
kW blower		15 or 18.5
kW screw		4 or 5.5
Tube Ø	mm	250
Conveying height	m	20
Conveying range	m	7
Trough length	m	3
Output	m ³ /hour	30-40

SUCTION BLOWER TECHNICAL DATA

Wood chip suction blower:		
kW blower		7.5; 9.2
Pipe/Suction connection Ø	mm	210
Conveying height	m	10
Conveying range	m	7
Output	m ³ /hour	13-15
Suction blower/swivel design for electric motor:		
kW blower		15; 18.5
Pipe connection Ø 2x	mm	250
Suction blower/swivel design for tractor:		
Gear	r/min	1000 (540)
Pipe connection Ø 2x	mm	250
Conveying height	m	20
Conveying range	m	7
Output	m ³ /hour	30-40
Hopper:		
Suction funnel Ø 250 with air register	mm	l 1000/w 500
Suction hose Ø 200:		
Ø cone 250 on	mm	200
Suction pipe 0.5 m with handle		
Connecting sleeve for hose	mm	200

TROUGH-TYPE BLOWER Arguments that carry conviction

- **First-rate filling trough 3 m:**
Extra-low for all tippers.
- **First-rate conveyor screw:**
Strong, wear-resistant screw.
- **First-rate drive:**
Maintenance-free, robust geared motor.
- **First-rate blower:**
Maximum discharge output thanks to special pressure blades.
- **First-rate performance:**
Two slide valves serve to exactly adjust the screw feed quantity (see ammeter blower).
- **First-rate mobility:**
The wheels can easily be lifted by means of a hand lever.
- **First-rate dust-free processing:**
Every trough-type blower is equipped with a withdrawal unit for a clean workplace.

SUCTION BLOWER Arguments that carry conviction

- **First-rate suction power:**
Maximum performance ensured by rubber suction hose with a diameter of 200 mm.
- **First-rate flexibility:**
All blowers swivelling design, small number of tube bends, more power.
- **First-rate blower:**
Extra-reinforced, electronically balanced pressure blades.
- **First-rate cyclone:**
Ensures a relatively dust-free conveying.
- **NEW: ascending conveyor**
Now also available in the product range: ejector device for filling wood chips bunkers, output: up to 60 m³/hour!



Tractor wood chip blower with swivel filling trough



For a fast filling of storing space for chopped material!

Thanks to its small overall height, the hydro tractor blower is easy to charge and is also suitable for conveying pellets, wood shavings and the like as a result.

Output: up to 50 m³/hour

Versatile and flexible!

Can be used with tractors from 50 kW/68 HP. Blower driven by tractor PTO, the charging trough can be swivelled by approx. 60°. Trough screw driven by the hydraulic system of the tractor. Vertical heights of up to 25 m are possible for conveying, and an ascending conveying range of 5-15 m is possible. A cable-type safety shut-off device ensures the necessary safety for work. The structure fitted with a 2.8 m wide filling trough can be used for filling every kind of tractor tipper, for example. A cyclone ensures less dust in the chopping material chamber.



Arguments that carry conviction

- **First-rate cable-type safety shut-off device:**
With hydraulic solenoid valve and plug for light connection of tractor.
- **First-rate speed:**
Speed of the conveyor screw infinitely variable.
- **First-rate reversing feature:**
Short reversing of the screw is possible.
- **First-rate dust-free processing:**
A cyclone ensures dust-free working.
- **NEW: ascending conveyor**
Now also available in the product range: ejector device for filling wood chips bunkers, output: up to 60 m³/hour!
- **First-rate dust-free processing:**
Every trough-type blower is equipped with a withdrawal device for a clean workplace.

Technical data hydro tractor blower

Transport width	m	2.5
Trough length	m	2.8
Trough height	m	0.65
Swivelling	approx.	60°
Conveying height	up to m	25
Conveying range ascending	m	5-15
Tube Ø	mm	250
Cardan shaft for tractor PTO	r/min	1000
Power requirement	from HP	68
Drive conveyor screw: via tractor hydraulic system - double-acting control unit	l/min	approx. 40
Tube elements galvanised, available lengths	m	0.5/1/2
Tube bends from 15-90° (15/30/45/60/90°)	mm	radius 700
Tube bend 90°	mm	radius 1450
Tube clamp stainless Ø	mm	250



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Our visions and objectives

The corporate identity of MUS-MAX:

The family business MUS-MAX has been a reliable partner of farmers for almost 150 years. Our customers can absolutely rely on the first-rate quality of our products, and an innovative spirit gives us the motivation we need. Customer proximity is not just a slogan for MUS-MAX, but we put it actively into practice in all our business relations. Our objective is the success of our customers achieved with the help of our machines. We want to make work easier for our customers and to improve their quality of life as a result. We are able to offer this benefit by means of equipment for wood and silo technology as well as the mechanisation of farms and the related services.

Environmental awareness - energy

As a family business, MUS-MAX takes its responsibility for the coming generations and the environment very seriously. It is our task to develop "agricultural technology" which uses renewable energy. Agriculture with all its aspects is to be promoted with a view to ecological, financial and social factors.

For MUS-MAX, the customers are the focus of attention. Their central part guarantees exacting requirements for the development of new products.

Our employees are the best from our region. As many employees have their roots in agriculture themselves, they are aware of the challenges that tomorrow will bring. This staff know-how is implemented to develop practical solutions for the future. Our trainees and employees are constantly further qualified and trained in a practically oriented manner in order to reach the current objectives. Our management ensures that objectives are always reached and delivery dates are complied with, thanks to their strong personality. Our employees reach the goals by means of teamwork and always think things through when carrying out their work in order to assure quality. They are also responsible for constantly improving operational procedures and cost minimisation. Employees who implement improvements get an acknowledgement for that. Our corporate culture favours an open communication - and we respect the employees' wishes too.

We work on the basis of a high quality standard. Final machinery examinations and the handing-over of machinery are recorded in writing. Transparency ensures motivation, identification and productivity! But also our dealing with mistakes - we call it "mistake-friendly" - is part of the quality system of our company. However, they can only be tolerated if new ideas are implemented in a creative manner. As a result, quality gets more important too!

"Unless you try to do something beyond what you have already mastered, you will never grow."

(Ralph Waldo Emerson)

We regard change as obligation to create innovation - we are looking ahead. Nothing is as constant as change. So it is always time to change because we can make everything we can do today still better tomorrow. The constant further development of every employee, and of our entire company as well is based on the awareness of this.

"We need to be active to set something in motion!"

Environmental awareness

Treating nature kindly is extremely important for us. So we try to achieve a balance between ecology and economy in our company. In the first place, this means for us avoiding unnecessary packaging, using environmentally friendly cleaning agents and paints as well and installing exhausting devices for the protection of our staff. The new assembly hall is operated with a 200-kW wood chip oven, and the main operation is connected to the local heat supply system of the municipality. Our chopping machines are employed there as well. For us, the sensible use of energy is not only important due to reasons of cost because:

"We do not inherit the earth from our fathers, but we borrow it from our children!"

Our actions are unobjectionable from an ethical point of view

We consciously acknowledge that we live in the third millennium in a unifying Europe. From this, we derive a boundless openness towards all peoples, cultures and people as their representatives. The agricultural technology industry is deeply human. All our employees are on friendly terms with our customers, but also with each other in the team. When dealing with conflicts, we try to turn friction into positive energy as a basis for new creativity, to the advantage of everybody. Our attitude proves that a good performance is based on the principles of decency and humanitarianism towards society and employees. By our ethical code, we understand unmistakably the values of decency, honesty, reliability and loyalty!

We set exacting objectives

We always develop our corporate goals by means of teamwork - this is the only way for us to reach them together too. From our ideas, we derive our objectives and pursue them with active methods. We constantly adapt them in order to be on the ball all the time. They always present a challenge, but they are not too much for us to handle. Here, our motto is: "Always demand more of you than others can ever request from you."

However, objectives are an important energy factor for each of us in the team as well because the attainment of objectives is our biggest source of energy. The quality of our objectives determines the quality of our future!

We make profit and grow

Positive operating results give us financial in-

dependence and corporate growth in accordance with our corporate objectives. In addition, they ensure the security of our employees and their families as well as the creation of new jobs for the economy. Expansion makes us attractive, strengthens our competitive position and helps us to find and to keep the best employees and apprentices. It gives fresh impetus to our business organisation all the time. Growth as a motivator is pure oxygen and so an absolute must for us simply for this reason alone. In our company, it creates an environment in which vitality and enthusiasm prevail. Our skilled workers perceive real opportunities for their own personal development. So growth is and will remain the most important driving force for us!

We believe in our company

Our performance brings our customers, employees and suppliers an extraordinary benefit. Our friendliness, quality awareness and professional work have helped to establish the company MUS-MAX among the top agricultural technology companies in the European region. Our strong market position was consolidated with many patents. In that way, we established an exemplary reputation for our company too. We are always up to the justifiably great expectations of our customers and dealers. We rather regard them as a minimum and are pleased about the new challenges every day. Competition is that extra something for us! Our youthfulness gives us the dynamism and the spirit necessary to live up to this profile without making any compromises. What is it that makes up success? Our way of living! Good spirits in the company is a more important basis than any know-how and capital. Only people who think positive radiate enthusiasm and competence. In our home province - with forests, farmland and vineyards - we live in one of the most favoured regions of Austria with a view to economy and culinary delights. We can be quite satisfied with our development so far - but this is not the best we can do! We have still got a lot on the agenda!

Our motto:

"It is not the strongest that survive, nor the most intelligent, but the ones that are most adaptable to change!" *(Charles Darwin)*

Sowing innovation - earning success. The secret of success? Quality and speed!



Erich Urch,
Managing Director

Today, **MUS-MAX** is one of the leading manufacturers of innovative high-tech mobile chopping machines all over Europe. The corporate philosophy is characterised by our ongoing pursuit of even better solutions **because *the state of the art* is simply not enough for the MUS-MAX POWER TEAM.**



All our equipment and machinery are constantly tested and further developed. Subject to technical alterations and output data changes without notice.

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