

Allroad self-propelled



2006

Milestone

In order to achieve the hacker concept "self-driving and powerful", the **ALBACH** Maschinenbau GmbH & Co. KG was founded in Menning.

Construction of the first prototype and testing phase.



DIAMANT 2000

The wood industry demands even more mobility. ALBACH presents the new **Diamant** 2000 with truck-typical dimensions, a new drive and rotor concept and a maximum speed of of 70 km/h.



2019

Highway approval

Presentation of the **Diamant** 2000 80 km/h version.



Anniversary

The 500th machine **Diamant** 2000 is delivered.





2008

Presentation Silvator 2000

2008 the serial production started and the first Silvator 2000 was presented to the public.

With a transport width of 3 m and a specially built crane, the machine was up to 50 km/h fast.

2008 - 2014

In the following years the

developed and sold in more

than 15 countries worldwide.

Silvator was constantly

Evolution



Expansion

For the first time, the **Diamant** 2000 is also sold in North America.





2015 - 2018

Due to the enormous increase in demand for the **Diamant** 2000, a new production site in



New production facility

Langquaid is established.



2018

FÄLLBACH the mobile felling crane

In 2018 the first newly designed felling cranes FÄLLBACH have been delivered to Northern Germany and to the USA.







2013

Shrub press

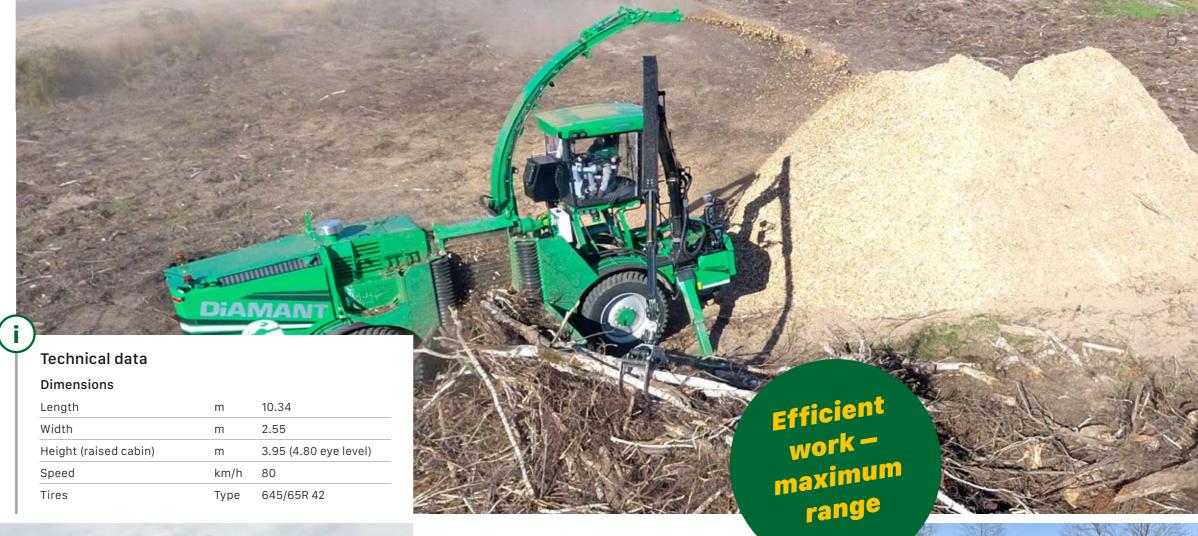
In 2013 the first mobile shrub press was developed and completed.

DIAMANT 2000

convinces with the best wood chip quality, which has been combined in the overall concept with **off-road capability** and **durability**.

These requirements, which are set by the market together with self-feeding, are met by the **Diamant 2000** every day in practical use.

With its truck-compliant 80km/h approval the self-propelled all-road vehicle takes you uncomplicated to any place of operation.







Even the heaviest trailer loads do not bring the **Diamant 2000** to its limits. Individual **crab steering or all-wheel steering** enable you to operate in the most confined spaces.



Highway approval

Axle suspension

Steering







Thanks to the **permanent all-wheel drive system** with independent hydromechanical drive on each axle, it is easy to master hill climbs in rough terrain.

CABINE AND TERMINAL

Perfect workplace for the operator

4.8 m eye height guarantees **perfect and** safe all-round visibility even with high wood piles. This means that you can see your field of vision at all times.

The combination of sound-insulated and air-suspended cab with comfort seat, air conditioning and heating incl. underfloor heating allows fatigue-free work even on long working

For even more comfort, a refrigerator and microwave are optionally available.



Air susp ension

Underfloor heating Comfort seat

THE SYSTEM SOLUTION **FROM ALBACH**

Driver display for control and joystick-settings up to engine and drive diagnostics.

With the ALBACH Touch Screen Terminal you can easily control all functions and adapt the machine to your individual needs.

Working parameters and joystick functions can be conveniently set from the driver's seat and saved in a maximum of three different operator profiles.







Export of all work orders and import of further driver profiles via USB interface.





on the cables.

CHIPPING UNIT

Quality that pays off

Chipping unit with vertical infeed belt, direct drive for infeed chain and infeed roller.

Laterally arranged infeed rollers guarantee a trouble-free infeed, e.g. when chipping complete trees and branches.

The augers in the discharge floor are all driven driven by specially mounted oil motors.

The Diamant has a **unique guarding system** to protect the rotor against foreign material. If the counter-blade is triggered by a sensor, the rotor clutch and infeed are switched off within a fraction of a second.





To protect the rotor and rotor shaft from damage in a controlled manner, additional predetermined breaking points are installed. Interchangeable counterblade

Hydraulically preloaded counterblade

Rotatable counterblade

Variably adjustable



mm

mm

rpm

m³/h

GEN 6

980

1230 (1730)

up to 420

up to 380

GEN 7

980

1230 (1730)

up to 420

up to 500





ROTOR

For optimum wood chip quality

Thanks to our rotor concept and flexible configuration options we can respond to a wide range of customer requirements.

With the **ALBACH** Diamant it is easy to produce wood chips in all specifications and for all purposes.



With the Rotor Gen. 6 you have the choice between 6 or optionally 12 knives. With 6 knives you can produce chips from 9 to 35 mm, with 12 knives from 9 to 28 mm. The exact setting is possible in 2 mm steps

Rotor Generation 6 comes with the Gen. 1 accelerator as standard. Optionally the Gen. 2 accelerator is available.

Two different knife variants are available:

- Blades with adapter (quick-change system)
- Knife for universal use (quick-change system)
- * Optional retrofitting in all machines of type Silvator and Diamant is possible.





Rotor Generation 7

With **Rotor Generation 7** you can produce wood chips from 15 to 60 mm. The exact adjustment is possible in 2 mm steps.

Interchangeable knife carriers allow optimal adjustment to a wide range of materials, to produce the best possible chopped material and thus ensure corresponding efficiency.

Possible knife variants for Gen. 7:

- Blades with quick-change system for cutting lengths up to 38 mm
- Blades for cutting lengths up to 38 mm
- Blades for cutting lengths up to 60 mm

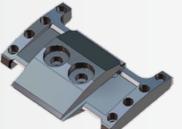














Interchangeable wear plates allow long rotor working time and an optimization of the of the wood chip quality.

ACCELERATOR

The hydraulically infinitely variable **Genera**tion 1 accelerator has a high ejection capacity and throwing range. Overloading is possible in many directions. All wearing parts can be replaced in the shortest exchanged in a very short time.

Optionally, the tower can be ordered with a remote control. This allows the driver to control the tower and fill trailers himself. The chipper driver can concentrate on his work without distraction. Overloading heights of more than six meters are possible without any problems.

With the **Generation 2 accelerator** you get all advantages of the Generation 1 accelerator. In addition by folding out the accelerator makes daily maintenance easier and access for service work.

The Generation 2 accelerator enables highest throughputs due to its direct drive even with the longest cut lengths. Here you can adjust the speed independently hydraulically. Speed fluctuations of the engine are compensated by the hydraulically variable drive.











pcs.

rpm

GEN 2

6

1250

270

6.5

Planetary gear

hydraulic – stepless

variable adjustable

GEN 1

1200

270

6.2

Toothed belt

Hardox© 400 (gray)

Maintenance-free slewing ring

Hydraulic, stepless accelerator drive

Carbon fiber reinforced timing belt (Gen. 1 only)

CRANE AND LOAD IN ALL DIRECTIONS

More efficiency – less idling

The 270-degree swiveling and height-adjustable tower ensures **easy handling by transporting** the chipping material. The extended angle of rotation of the ejector tower allows almost any positioning of the transport vehicles.

This variety of vehicle positioning allows the simultaneous use of several transport vehicles at the same time. The saving of idle time during maneuvering further increases efficiency during chipping.





ENGINE

Volvo or MAN engine with 16.1/16.2liter displacement – 3 options

Highest power and torque output already at low engine speeds! The engine variants, combined with the chipping and driving characteristics of the **Diamant 2000**, are an ideal combination for the self-propelled wood chipper.

Transmission and hydraulics are optimally adapted to the torque characteristics of the respective engine to ensure powerful, dynamic and economical operation with sufficient performance with low fuel consumption.

Allocation according to emission levels:

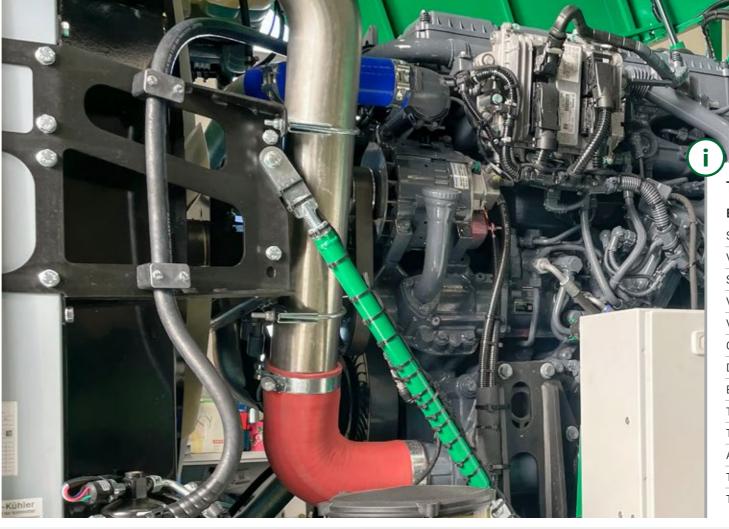
Currently, for new registrations

- in Europe is exhaust stage V (EU 2016 / 1628)
- in the USA Tier4 (according to EPA/CARB)
- rest of countries country-specific different requirements, mostly based on to Tier V or Tier 4, in some cases even no specific requirement

In general, the country-specific availability to be checked.



MAN 6-cylinder in-line engine **581 kW (790 hp)** with 16.2 liters displacement with common rail injection system, AdBlue, SCR catalytic converter and exhaust gas recirculation.



Technical data

Engine	Туре	
Series engine MAN (exhaust level V)	D4276	581 kW (790 hp)
Volvo engine (exhaust level V)	TWD1683VE	585 kW (795 hp)
Standard Volvo engine (exhaust level Tier 4)	TAD1672VE	515 kW (700 hp)
Volvo engine (exhaust level Tier 4)	TAD1671VE	450 kW (612 hp)
Volvo engine	TAD1643VE-B	565 kW (768 hp)
Cylinder		6
Displacement	I	16.1/16.2
Engine speed at chopping	rpm	1600 - 1800
Tank capacity	I	942
Travel drive 2-speed transmission	hydromechanical	
All-wheel drive		✓
Travel speed	km/h	80
Turning radius	m	approx. 8.50

SPLIT COOLING SYSTEM

With the split cooling system of the Diamant 2000 you always keep a cool head.

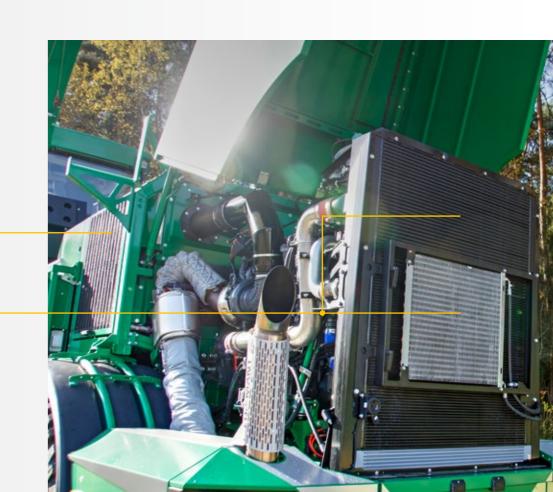


Volvo 6-cylinder in-line engine (Tier 4) 515 kW (700 hp) with 16.1 liter displacement, unit injector system, AdBlue, SCR catalytic converter and exhaust gas recirculation.

Hydraulic oil cooler with reversing function

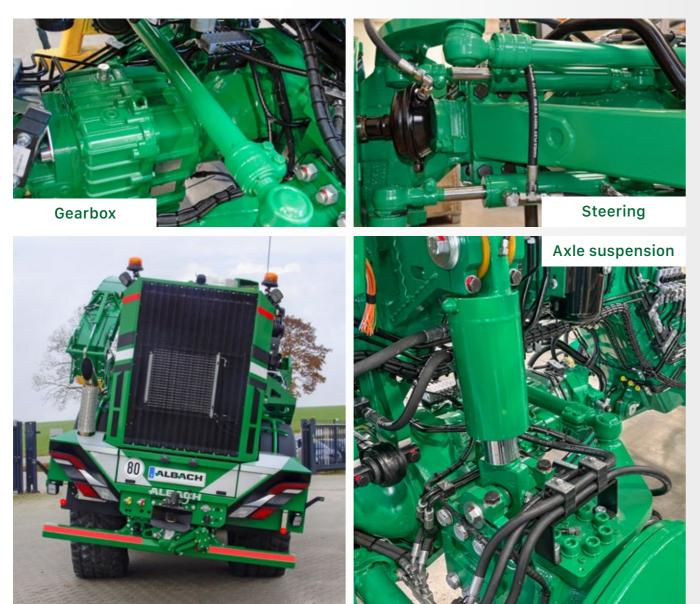
Water, intercooler and air-conditioning cooler are installed in the rear of the chipper.

Automatic reversing function as standard.





Best driving characteristics – on the road and off-road

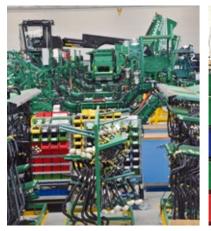




TRAINING AND SERVICE PARTS

ALBACH training for drivers and service technicians

For each machine delivered by **ALBACH** we offer a qualified training. This training takes place on the machine and also on the individual components. Our goal is to provide you with the best knowhow.







Spare parts supply and availability

Our motto is: **Everything from one source.** Motors, gearboxes and crane parts are directly from **ALBACH**.

We guarantee complete spare parts inventory for service, wear parts and all drive parts including motors.





OPTIONAL ACCESSORIES



3 drawers



2 drawers and refrigerator compartment



1 drawer, microwave / refrigerator compartment







underride guard, country specific







Splitting tongs



Log splitting tongs or finger gripper



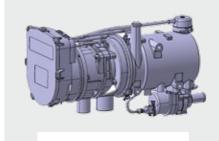
Reverse flap



LED light package



Camera systems



Parking heater





trailer hitches



DIAMANT

ALBACH

ARGUMENTS THAT CONVINCE



Quality made in Germany

As a premium manufacturer, **ALBACH** focuses on the highest standards – in all areas.

- Design reliable machines extremely robust construction as a basis for the future
- High vertical range of manufacture
- High flexibility
- Trained, experienced specialists
- Loading and shipping



Contact partners worldwide

In addition to production in Langquaid, the company headquarters are also located in Menning, Upper Bavaria, Germany.

Our international customers have contacts in many countries around the world.



Individual solutions

Mechanical engineering belongs to the classical engineering sciences.

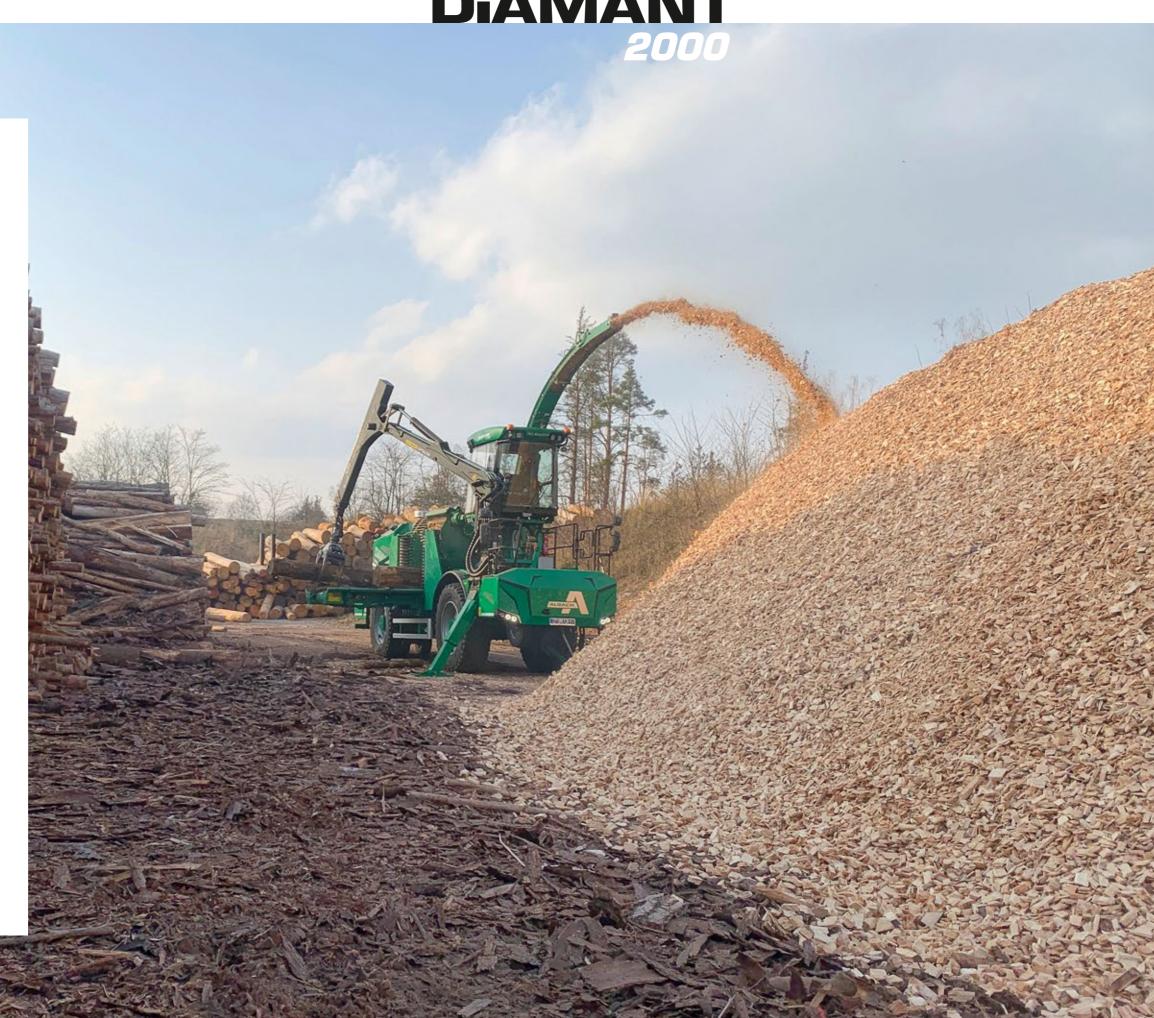
In this field, the company **ALBACH** Maschinenbau has specialized in the production and further development of chippers.



Comprehensive service

Our know-how – your benefit

- In a personal consultation, we address your individual project requirements
- We advise you on which machine is right for you
- You receive transparent information about the operating and service costs of the machine even before you make your purchase
- With our worldwide sales and service partners, you will find a competent contact person close to you





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