



ALBACH
Albach North America



Technique that inspires

The Albach Diamant 2000 is considered the most powerful and flexible usable wood chipper in its class, worldwide. The software specifically developed for the Diamant allows the machine to

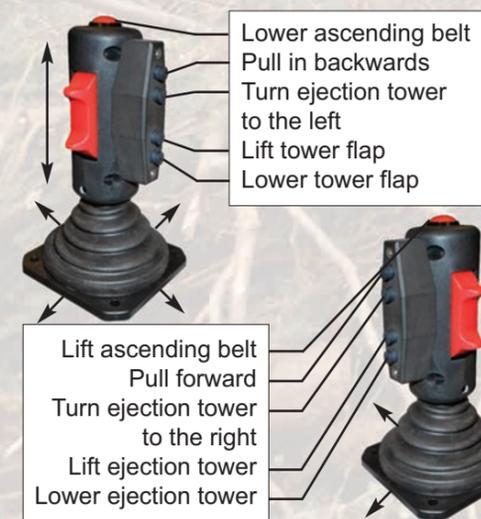
be ready to chip or to drive within 20 seconds after touching a button. Many different chipping positions are easily available. The driver's cabin is height-adjustable and can be lifted to an eye level

of 15.748 feet. This provides a perfect view to operate the crane, retract logs or eject woodchips. The air-sprung cabin mitigates strokes and minimizes shocks, convulsions and vibrations,

providing a more relaxed working experience. The machine's support stabilizers maintain a safe position even if the crane is extended and loaded, which means the Diamant offers a

greater working radius. The storage compartments integrated in the front keep the user's tools reachable. The most important wearing parts and tools are held here and are always

reachable on the job site. With a few hand movements and folding away of the accelerator, the user can have easy access to the screw-conveyors and to the counter blade.



A perfect working place for the user

The air-conditioned drivers' cabin can be lifted to a height of 15.74 feet and provides a perfect panoramic view for the user. The ergonomic and rotating seat (swivelling to 180°) has a three-

point seat belt and is mounted with control consoles on both sides. The new software was developed in-house by Albach and offers five languages as standard. Additional languages

and adjustments can be integrated through manual programming. The driving terminal serves as the command centre of the Diamant. The touchscreen eases the operation

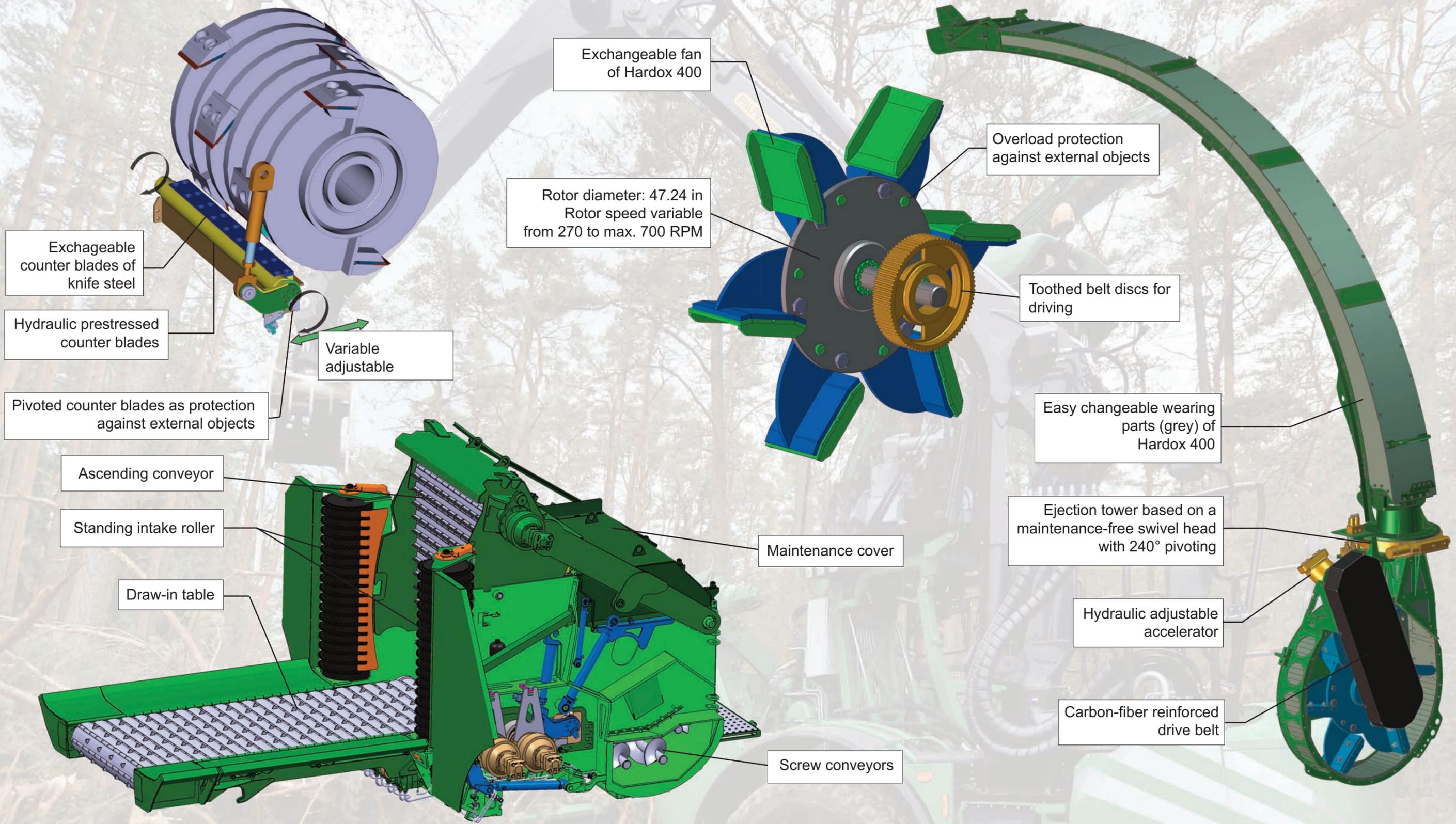
and the user can access all desired information about the current state of the machine more quickly. The new user interface allows customized configuration. The sensitivity and the core

movements of the joystick axes can be adjusted. USB-interface performance and order data can be exported and delivered to a computer for analysis. For greater convenience, the cabin includes

an integrated cabinet system with microwave and refrigerator.







Exchangeable fan of Hardox 400

Rotor diameter: 47.24 in
Rotor speed variable from 270 to max. 700 RPM

Overload protection against external objects

Toothed belt discs for driving

Exchangeable counter blades of knife steel

Hydraulic prestressed counter blades

Variable adjustable

Pivoted counter blades as protection against external objects

Ascending conveyor

Standing intake roller

Draw-in table

Maintenance cover

Easy changeable wearing parts (grey) of Hardox 400

Ejection tower based on a maintenance-free swivel head with 240° pivoting

Hydraulic adjustable accelerator

Carbon-fiber reinforced drive belt

Screw conveyors

Quality that pays off

The Enhancements in the chipping rotors and the optimized control through the new software reduce the dust of chips and decrease the overall energy

consumption. Due to the newly developed flap mechanism at the draw-in table, the chipper unit is now 17.71 inches narrower, without losing any functionality.

The chipping rotor is equipped with 6, 8 or 12 blades, which can be used as needed. When operated with 6 or 8 blades, counterweights provide a

rotationally symmetric mass distribution and enable a fluent, smooth and energy efficient cut. The variable distance of the counter blades and a large choice

of screens make the Diamant universally usable. Counter blades can fold back automatically to prevent damage from foreign elements (e.g., iron)

entering the chipping unit. The wearing parts are made of HARDOX to minimize maintenance intervals and costs.



Versatility

The ejection tower can be rotated by 240 degrees and lifted to 10.17 feet and allows ease of use when removing the wood chips. The extended angle of the chute enables

trucks to stand by in nearly any position. A new feature of the Diamant is the ability to eject over the driver's cabin. It is also possible to load the removal transport vehicles

sideways and over the engine hood. This variety of vehicle positions allows several removal transport vehicles to be used simultaneously. The time saved during manoeuvring

increases the efficiency of chipping. Due to its great gyrating mass, the 2.65 tons chipping rotor works effortlessly with thick trunk material as well as with smaller bush

material. Through constant improvements of the chipping rotor geometry, the chipping performance is increased by 15 % reducing the amount of dust

elements as well. Through the new barrier-free intake device 48.4252 x 38.5827 inches (width x height), the material can be fed unhindered.



Technical Data

Motor	Typ	Volvo
Series engine	TAD1671VE	603.45 hp (612 PS)
Engine version I	TAD1671VE	690.64 hp (700 PS)
Engine version II	TAD1643VE	757.68 hp (768 PS)
Cylinder		6
Cylinder Capacity	gal	425317
Engine speed during operations	RPM	1500-1700
Tank capacity	gal	262851
Fuel consumption chipping/yd ³	gal	0.06
Fuel consumption chipping & driving/yd ³	gal	0.1
Fuel consumption driving	MPG	42555
Drive 2-speed gear		Hydro-mechanical
All-wheel drive		
Driving speed	mi/h	45
Turning radius	ft	ca. 27.8871
Chipper		
Intake width (with intake roller)	in	48.4252 (68.1102)
Intake height	in	38.5827
Rotor speed	RPM	Up to 420
Max. output	yd ³ /h	Up to 575
Intake speed		Material dependant 3-Level control / variable
Rotor diameter	in	40.94488
Number of blades	Pc.	6, 8, 12
Rotor drive		mechanical
Accelerator drive		hydraulic - variable adjustable
Counter blade		2-sided use / single elements
Distance counter blades - blades		variable
Cover counter blades		hydr. Overload protection
Direction of rotation input		reversible
Accelerator		
Number of rotor blades	Pc.	6
Speed of rotor blades	RPM	270 - 700
Diameter of blades	in	47.24409
Rotation angle ejection tower	°	240
Length ejection tower	ft.	20.3412
Crane		
Type S110F		
Forwarder crane Epsilon		
Max. range	ft.	33.13648
Loads at 33.13648 ft.	US t	1.10231
Crane performance (1600 RPM)	gal/min	52.8345
Dimensions		
Length	ft.	33.9238
Width	ft.	8.3661
Height (lifted cabin)	ft.	12.9593 (15.748)
Weight	lbs.	70,548
Tires	Type	650/65R42

Product Specifications

- Highway permission
- Pneumatic differential lock
- Permanent four - wheel drive
- Central lubrication
- Fast change to counter blade
- Screw
- Hydraulic direct drive - free of maintenance (except chipping rotor)
- Automatically reversible cooler
- Automatic pressure compensation of the crane outriggers
- Loss - free timber transfer from infeed table to chipping rotor
- Chain - free drive
- Backing up with swiveled chair facilitates overall view
- Lighting, 32 headlights
- Automatical set - up/tear down (crane outriggers and brakes will be enabled/disabled automatically)

Fast, flexible, powerful ... Diamant 2000

The Diamant 2000 outperforms competitors, especially through the newly developed drive capability that accelerates up to 43.5 miles/h. An integrated antilock breaking system (ABS)

guarantees for safety all time even in sharp breaking maneuvers. Its increased speed makes the Diamant the first selfpropelled wood chipper to reach its job site via highways.

The drive function has two speed gears that can be shifted under load via double-clutch transmissions. During road travel, gear changes take place automatically.

The backbone chassis increases the turning angle to over 30° and allows a high mobility during road travel. The all-wheel steering and the reduced external width up to just 8.366 feet provide real

flexibility even in terrain difficult to access. The new monSystem is a combination of a suspension and a slope compensation system. It tilts the central joint axis via four hydraulic suspension cylinders by

7.2 degrees each. It is regulated automatically to the desired level.