TRUCKLOADER VACUUMS



ELIET®



PRODUCT OVERVIEW

TL 450 PRO HD

TL 450 PRO



TL 450 PRO HD

The Eliet Truck Loader was designed to meet the needs of intensive users down to the smallest detail. Equipped with a powerful engine, this air cyclone develops a suction power that effortlessly removes large volumes of leaves. With the Eliet Truck Loader you can count on a reliable, sturdy and ergonomic machine with a guaranteed low maintenance cost.



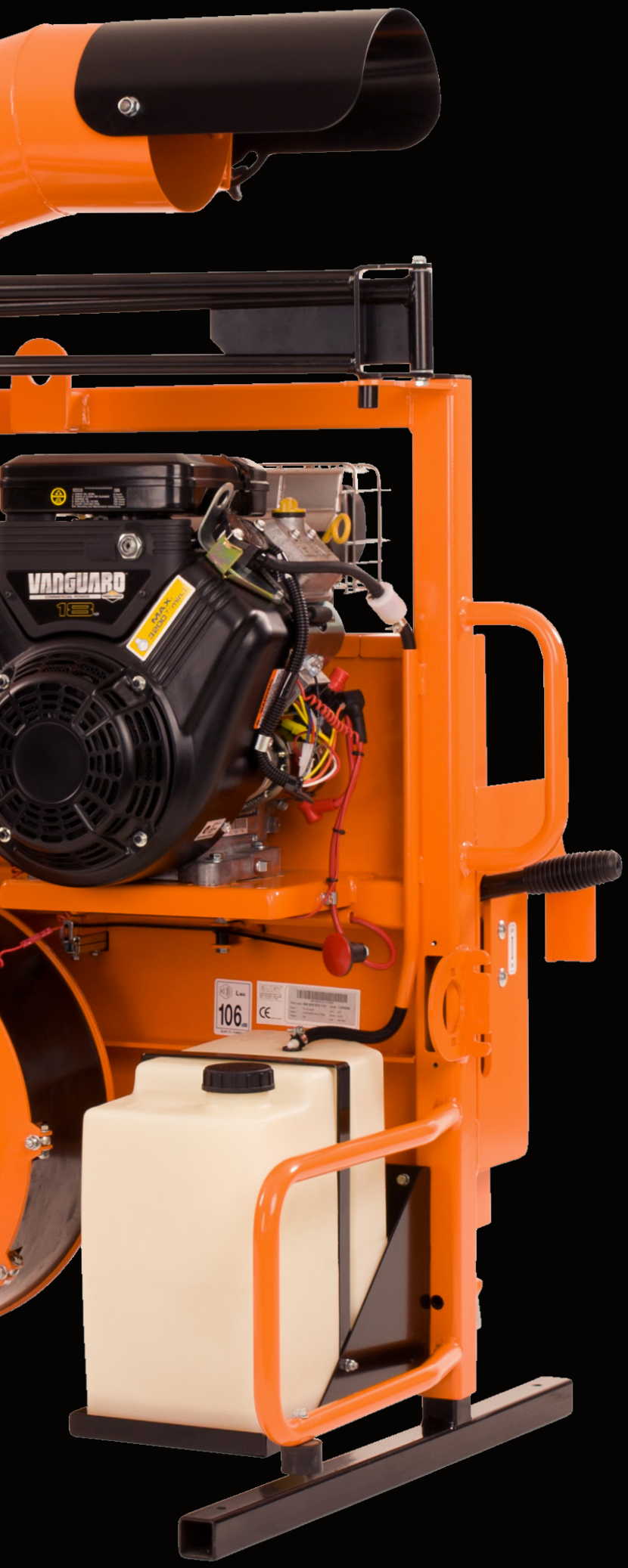
SAFETY IS KEY

Key in the development of the new generation of Truck Loaders was the active safety of the machine through integration of a clutch and a brake. This means that disengaging of the belt automatically puts a brake on the Impeller.

Furthermore, by providing the Truck Loader 450 Pro HD with a clutch, the engine can be started without load which makes this procedure easier smooth and kind for the starting motor. Since not the engine but the clutch is turned off in a potential unsecure situation, it considerably reduces the number of starting procedures, which increases the life of the starting mechanism.

STURDY AND COMPACT

It is a well-known fact that vacuum loaders must be able to stand rough handling. Leaves, gravel, sand, sludge, beverage cans ... the machine must be able to process it all effortlessly. In that respect, the Eliet Truck Loader is a benchmark on the market. Because the Truck Loader is usually attached to the loading platform of a lorry, its short design is a great feature. And since the width of the machine measures only 66cm, it doesn't widen the vehicle.







SUSPENSION DEVICES

The Truck Loader is equipped with eye by which the machine can be hoisted. This eye is positioned in such way that the Truck Loader hangs in balance when lifted. It therefore requires little effort to put the Truck Loader on a trailer or on a loading platform. Hooks are provided to attach the machine to tailboard of a truck or hang it on front of a trailer. Two adjustable supporting feet allow to stabilise the machine on the vehicle.

NOISE REDUCING TURBINE WALL

Every leaf or stone that is vacuumed up follows the air stream through the vacuum hose and hits the impeller. The centrifugal power causes everything to be swirled against the turbine wall, where it will subsequently follow the spiral casing into the blow pipe. The turbine wall therefore acts as a kind of a drum, generating a lot of noise. Thanks to an adapted rubber mantle, Eliet was able to reduce the noise on each impact.



QUICK SERVICE STOPS

Besides operational security, low maintenance costs are almost as important for the user of the machine. With that in mind, the engineers at Eliet developed several smart solutions:

1. QUICKLY DETACHABLE FRONT COVER

Of all the material passing through the turbine, some of it is likely to stick to its sides. On most machines, in order to remove the front cover, you first have to find the mounting nuts in the dirt sticking to it. The special and well thought-out mounting bolts on the Eliet Truck Loader allow you to remove the front cover in no time with minimum tools.

2. CLEANING VALVE

If the vacuum loader regularly sucks up sludge and mud, a deposit will soon form on the bottom of the turbine. Eliet therefore provided a cleaning hatch on the bottom of the machine, which enables you to quickly spray the sludge out of the turbine by using a water hose.



3. TRANSPARENT VACUUM HOSE

The Truck Loader is also equipped with a transparent vacuum-flex vacuum hose. The highly flexible suction hose measures 3.5 metres and is transparent. The ultra light aluminium suction mouth rests on two swivel casters, making it unnecessary to hold it up constantly. This light and transparent vacuum hose hardly obstructs the user's freedom of movement and allows him to immediately pin-point and then remove any blockage from the hose. A special quick coupling system easily detaches the vacuum hose from the machine. It simultaneously activates the safety device, shutting off the engine if necessary.



360° VARIABLE BLOW CHUTE

Just like the vacuum hose, the blow pipe with adjustable valve has a diameter of 200 mm, making clogging almost impossible. In addition, the swirled pipe, made from welded steel elements, can rotate 360°. The rotation point is made of nylon and as it is self-lubricating, it won't get stuck as a result of dirt or rust.

ADJUSTABLE FLAP

In order to be able to fill the loading area of a truck to the brim, a deflector valve is mounted at the end of the blow pipe. It can be adjusted to any desired angle. The form of the valve prevents the air stream from immediately diverging as it leaves the pipe, which allows for a better aim.



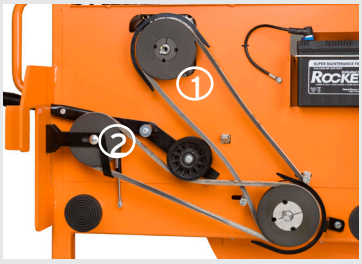
OPERATIONAL SAFETY

Many factors are usually considered when purchasing a machine. Aside from reliability of the materials used, the future user wants certainty about the safety of the machine and its user comfort. On top of these criteria the user will first and foremost be looking for a machine he can count on. In order to meet those requirements, Eliet offers a good many guarantees with respect to the Truck Loader.



STEEL TURBINE WITH CONIC BEARINGS

The steel turbine (6mm) is made from high-quality Hardox steel and is resistant to the impact of vacuumed stones and the grinding effect from sand and earth. Although the steel impeller is in itself a guarantee for sturdiness, this also means that there's quite some weight on the ventilator axle. Intensive use may cause axle bearing play, which, if the bearing is not adjusted, can have far-reaching consequences for the machine. The conic bearing allows for quick and simple adjustment, and hence adds to more operational security and a longer life for the machine. Special labirinth seals avoid grease being sucked out of the bearrings and guarantee the



1. BELT DRIVE

Because operational security is of crucial importance, Eliet chose to equip the machine with a belt drive. Thus, the rotation inertia of the heavy turbine doesn't influence the crankshaft of the engine. In addition it allows for a quicker start of the engine.

2. BRAKING SYSTEM

Eliet has designed a simple but ingenious system which, when disengaging the belt, also actively slows the impeller. This increases the safety level of the machine significantly, since not the engine, but the coupling is turned off in a potentially risky situation. This reduces the number of starting procedures considerably, which in turn increases the life of the starter.



ERGONOMICS

The Truck Loader's vacuum hose is attached to a swing handle, with an outreach of 1,900 mm, keeping the vacuum hose lifted at half its length. This hinged arm offers great flexibility to follow the movements of the user. For even more user comfort, Eliet developed a vacuum nozzle equipped with two small castor wheels. Thanks to this nifty tool the operator does not have to keep the nozzle uplifted and therefore has full freedom of movement. A long handle enables any user, regardless of his posture, to hold the nozzle in an ergonomically correct manner.

TL 450 PRO

With this new TL 450 PRO, Eliet broadens its range of vacuum devices that can be loaded onto the trailer of a truck - the so-called truck loaders. This new and powerful machine meets the requirements of customers who are looking for a budget-friendly alternative.




LIET®
Machines for Lawn, Garde

TL 450 PRO

BLOW CHUTE

The blow chute can be rotated 360° and can be locked at any position. The blow chute is made of stainless steel for higher durability. The deflector valve is easily adjustable so as to be able to determine the desired blowing direction.

TRANSPORT

Two sturdy grips enable two people to lift the machine and secure it to the truck. The supports by which the machine is attached to the truck have adjustable feet with rubber soles. The machine's frame sits on two wheels that provide for easy manoeuvring and easy storage.



TRANSPARENT VACUUM HOSE

The highly flexible suction hose measures 3.5 metres and is transparent. The suction mouth rests on a swivel caster, making it unnecessary to hold it up constantly. A support arm at 1.5 metres on the suction hose prevents it from dragging on the surface, eliminating any corresponding wear.

EASYHANDLE

Alternatively, one can opt for an "Easyhandle™": a suction mouth with two swivel casters and a moveable seat, providing the operator with even greater comfort.

ENGINE

Eliet purposely chose to separate the petrol engine from the suction turbine. Fully anchored in the carrier frame, the power traction on the turbine does not affect the engine.

TURBINE

The suction turbine ensures greater suction capacity. The suction hose has a diameter of 200 mm as does the blow chute; this practically rules out the possibility of any blockages. The suction turbine has a cover that can be replaced as a result of wear and tear and is lined with rubber in order to dampen the vibration of the material that is sucked in. The specially designed paddles of the ventilator add to the silent operation of the suction device.

TECHNICAL SPECIFICATIONS
TRUCKLOADER

PERFORMANCE	TL 450 PRO	TL 450 PRO HD
Drive	9,0 HP Honda GX270	14 HP Subaru EX40 ES
	13 HP Honda GX 390	18 HP B&S Vanguard ES
	18 HP B&S Vanguard ES	
	23 HP B&S Vanguard ES	
Material turbine	steel plate 3 mm	steel plate 3 mm
Transmission	Direct	Belt drive
Diameter Turbine	380 mm	450 mm
Sound absorbing turbine	yes	yes
Cleaning valve	no	yes
Turbine	5 blades / silencer	5 blades / silencer
Material screw	steel 5 mm	steel 5 mm
Air output	108 m^3/min	108 m^3/min
Diameter impeller	380 mm	400 mm
Materiall Blow pipe	inox	inox
Diameter Blow pipe	200 mm	200 mm
Suction hose length	3500 mm	3500 mm
Emergency stop propeller	no	yes
Blow pipe	Turnable 360° / Diameter 200 mm	Turnable. 360° / Diameter 200 mm
Wind speed	260 km/h	260 km/h
Suction inlet	Diameter 200 mm / Ergonomic Swinghandle™	dia. 255 mm / Ergonomic Swinghandle™
Suction hose	dia. 200 mm / Vacuumflex	dia. 200 mm / Vacuumflex

DESIGN		
Dimensions (LxWxH) mm	980 x 790 x 1520 mm	1140 x 800 x 1430 mm
Sound capacity	112 dB(A)	105 dB(A)
Weight	125 kg	160 kg

OPTIONS		
Suction hose "Easy handle"	yes	Standard
Extension kit +3m	yes	yes
Extra length of vacuumflex hose +3,5m	yes	yes
Special trailer	No	yes
Support chassis with wheels	No	yes
Support chassis with wheels and lifting system	No	yes
Flexible chimney extension	yes	yes
Electric starter	Standard on 18 HP & 23 HP	Standard



MADE *in* BELGIUM

ELIET EUROPE NV
Diesveldstraat 2
8553 Otegem, BELGIË
Tel. +32 (0) 56 77 70 88
Fax. +32 (0) 56 77 52 13

info@eliet.be
www.eliet.eu

ELIET®