

ELIET[®]

ULTRA PROF
SHREDDER







FIRST ENVIRONMENT-FRIENDLY SHREDDER

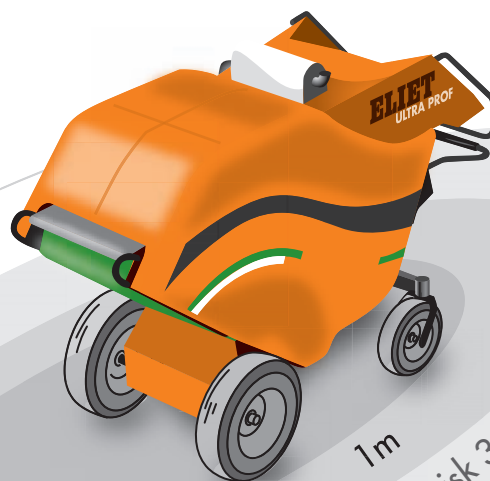


Eliet's new Ultra Prof is not just a shredder.

The priorities that were top of our mind when we designed this machine were to develop a machine that caused as little hindrance to its immediate environment during use as possible. 4 issues of concern were given careful consideration :

1 SAFE FOR USER AND AREA

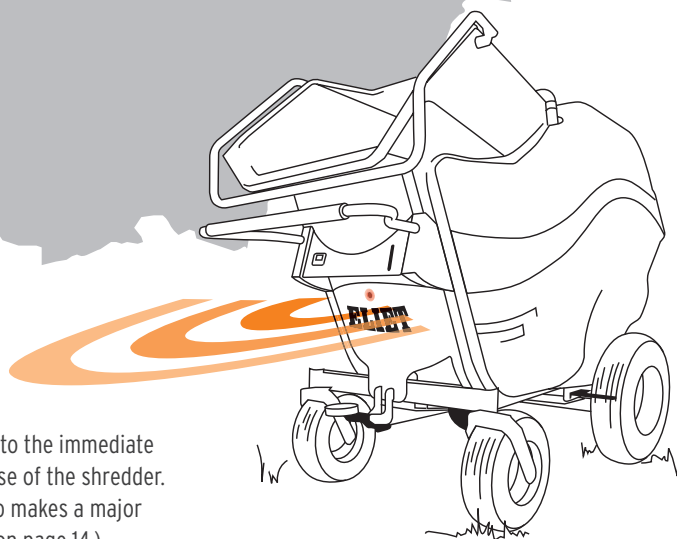
The first key area is active and passive safety. That user safety takes precedence is obvious. At ELIET, however, we go a step further when it comes to thinking of the safety of third parties. Residential areas, parks, gardens, verges, etc., are traditional locations where pruning and shredding must take place while the normal life around the machine needs to continue as usual. Coincidental passers-by, parked cars or other property must absolutely not be injured or damaged, for example, by flying chippings. To this end, the ELIET ULTRA PROF features a discharge system dedicated to reducing the dynamic energy of the waste chippings conveying them in a controlled manner in a wheel barrow or on a trailer.



1m
2m - risk 30%
4m - risk 20%
8m - risk 0%

2 NOISE REDUCING

In order for the shredding itself to be as little disruptive as possible to the immediate environment, ELIET has paid particular attention to reducing the noise of the shredder. In addition to all kinds of noise-reducing measures, the EcoEye™ also makes a major contribution to reducing sound pollution. (Read more about EcoEye on page 14.)



3 ECOLOGICALLY SOUND

Kyoto, the greenhouse effect, etc., the talk of the town but who is acting? At Eliet, we are convinced that a shredder can maximise our contribution to minimising sources of exhaust fumes. We decided to fit one of the best exhaust catalytic converters available on each ULTRA PROF series shredder. The catalytic converter filters out the most harmful substances from the exhaust gases produced during the combustion

process of fuel and producing harmful effects to the environment (CO -87%, HC -90%, NOx -85%).

ELIET, moreover, also developed the EcoEye™ system. The beauty of this system is that at non-productive moments the engine will switch to idle operation. Once the machine operator returns with a new load of green material the engine will recover to full power. This not only reduces fuel

consumption but has also a positive effect on the overall noise level of the shredder.



4 EXTREMELY FLEXIBLE

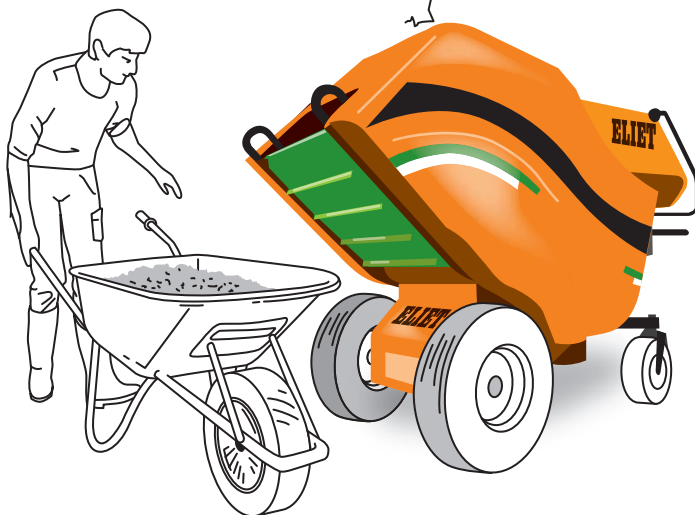
Self-propelled, the ELIET ULTRA PROF is extremely flexible in use, thanks to the fact that it can always be driven up to the specific work area. This ensures that pedestrians, cyclists or traffic are not hampered in their activities and you can professionally save time. The ULTRA PROF includes maximum shredding capacity (5-1/2" in diameter) in a design that is as compact as possible.

In considering these four key areas, we at ELIET are proud to have succeeded in developing a shredder that provides optimum comfort in use to its user and that it applies the quality of friendliness to its non-users in the vicinity of the machine.

MOBILE SHREDDER

MOBILE SHREDDER

For the past ten years ELIET has revolutionised the world of shredders with its innovative design for a mobile shredder with the following motto: "Take the machine to the wood, not the wood to the machine". This pioneering idea was, moreover, awarded the Golden Spike Innovation Award.



As the original inventor of the self-propelled shredder, Eliet is the leader when it comes to its competitors. The last few years ELIET has been developing a wide range of products related to mobile shredders and can today call itself the absolute market leader.

The advantages of mobile shredding are, of course, obvious. The machine can be used anywhere it can go. And that's everywhere. It is easy to transport too, because these shredders have no trouble driving in and out of any van or trailer. That means unequalled time savings and comfort.

ELIET CHOPPING PRINCIPLE™

ALLOW THE WOOD TO DO THE WORK

The exceptional power of ELIET shredders resides in the unique shredding system. ELIET has developed and patented its own shredding system that has been given the name of Chopping Principle™.

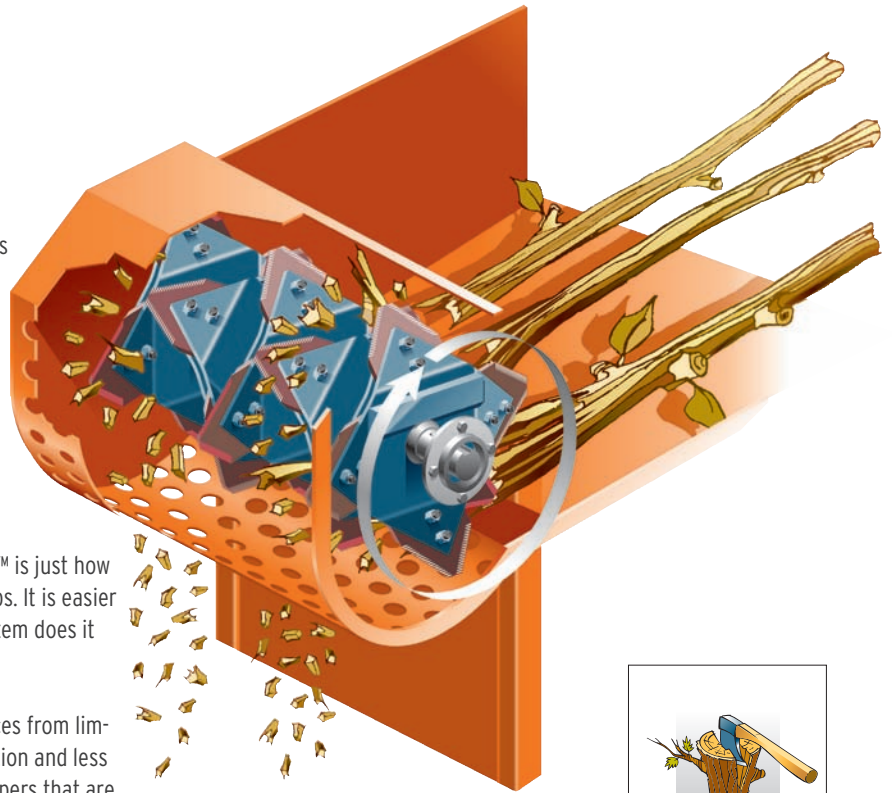
Just as a splitting maul, the blades chop with the wood grain. The green waste is reduced in a cycle of chopping and cutting into small chips with fast-composting features.

The big advantage of ELIET's Chopping Principle™ is just how little power is needed to chop the wood into chips. It is easier to cut wood with the grain, which is why the system does it this way.

As a result ELIET chippers get better performances from limited engine power. Which means lower consumption and less noise. It also means that we can build ELIET chippers that are more compact and less heavy.

The blade system makes thousands of cuts per minute, also cutting up leafy and wet garden waste without a problem. That means that ELIET chippers can be used on just about any job.

As well as wood, the shredding system can process a large variety of leafy green waste. Extended blade life is guaranteed because the razor-sharp, toothed blades can be sharpened and reversed. Despite the type of green waste, the sieve opening size of the sieve screen will always guarantee small and uniform chippings.



Important benefits of the ELIET Chopping Principle™

- Less engine power required
- High performance
- Broad blade surface
- Suited to just about any organic material
- Uniform fast-composting chippings
- Able to deal with foreign objects.
- Low-maintenance



Bio-Tech™ Chips

Thanks to the cutting process in accordance with the Chopping Principle™, chippings are intensively bruised and frayed. These Bio-Tech™ chippings therefore have a favourable fibre structure which promotes decomposition. All told, Bio-Tech™ chips improve the performance of your composting system.

ELIET ULTRA PROF
USER-FRIENDLY,
HARDWEARING AND POWERFUL





ELIET

ULTRA PROF

ELIET ULTRA PROF DESIGNED FOR PERFECTION

1. DISCHARGE SYSTEM

The discharge system is well integrated aesthetically into the striking design of the machine. The machine has been designed with no compromise on the functionality of the discharge mechanism. A short and fast rotating discharge conveyor removes the wood chips that are leaving the shredding chamber. The chippings are, moreover, only projected out of the machine with a slight force so that the safety of any possible passer-by can be guaranteed. Cars and houses in the immediate area will, therefore, not run a risk either. The discharge belt conveyor takes the waste chippings up to a height of a 4 feet which makes loading a wheel barrow or a trailer straightforward. The discharge system is very silent which means less overall noise radiation.



2. COMPACT DESIGN

One of the keystones of ELIET is to unite a maximum of potential in a compact construction. The challenge here is to ensure the right balance between aesthetics, technics, ergonomics, comfort and safety. The ULTRA PROF is an excellent example of this.

A few of the many benefits it offers:

- Optimum set-up possible in the operating environment.
- Safe for users and the area where it is used.
- Less space is required during transportation.
- Access through narrow passageways is not a problem at all.

3. HIGH PERFORMANCE ENGINES

The Ultra Prof features a gasoline engine for the ULTRA PROF which delivers sensitive engine response and sharp acceleration. Two engine suppliers have been selected: B&S Vanguard and Honda. They supply a 22 HP or 24 HP engine respectively for this exceptional shredder.

The beneficial features of the ELIET shredding system include that the power of these engines is exploited to full advantage giving a fuel consumption as low as 0.55 gallon/hour.



4. AUXILIARY FEED

For safety reasons, the feeding hopper has a set length. In order to ensure smooth flow of fine, leafy green waste, provision is also made to fit a 13-1/2" wide belt conveyor at the bottom of the feeding hopper. This wide moving belt transports the smaller bulk material to the feed roller where it is taken over. Both systems are perfectly harmonised with each other and, therefore, considerable quantities of hedge trimmings, leafy green waste, plants, etc., can be fed in and processed in a short period of time.



5. WIDE INFEED OPENING

In order to exploit the extra engine power to the full, the infeed speed should be adapted accordingly. To accomplish this, the feed opening on the Ultra Prof is as large as possible without compromising on compactness. The bottom of the feeding hopper is flat which means that inserting either wood or bulk green waste becomes comfortable.

6. SPEED GOVERNOR

A speed governor is standard with every ULTRA PROF. This is a hydraulic valve that offers the option to the operator to set the maximum speed for feeding the material in manually for both the feed roller and the feed belt depending on the type of green waste. This ensures that you again have the option to get the highest performance from the shredder.

ELIET ULTRA PROF

TECHNICAL SPECIFICATIONS



LOW NOISE

In designing our machines, we have kept in mind not only the specific concerns of gardening "In harmony with nature" but also machines operating in harmony with the environment. One of the elements with the most substantial impact on this and regarded as a hindrance, is noise disturbance. At ELIET, we believe it is our task to minimise this and, therefore, often calls in the assistance of university research centres to together remove the sources of noise or to completely isolate them in a constructive manner.

Specifically, large polyester shielding panels ensure that the overall noise pollution is reduced by at least 2 dB(A).

SMOOTH STEERING

Ground drive is very user-friendly and straightforward, which is extremely useful when moving through narrow passageways and twisting garden paths. In addition, the front swivel castor wheels give great manoeuvrability and ensure accurate steering.

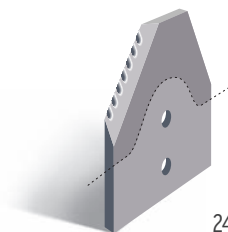
The ball bearings of the swivel axles make sure that the weight of the shredder has no impact on the manoeuvrability of these castors.

Since the oscillating front pendulum axle provides steady support on uneven surfaces for uniform ground contact and improved stability, the stability can always be retained and any unevenness of the surface will not represent a challenge to the ULTRA PROF shredder.



HYDRAULIC FEED ROLLER

The very back of the shredder chute features a powerful feed roller conveying the green waste to the shredding knives in a controlled manner. Gas springs provide a uniform pressure on the feed roller to maintain constant grip on the branches. Hydraulically operated, the feed roller can rotate in both the clockwise and counterclockwise direction with an easy to operate control.



24x RESIST/10™ blades



RESIST BLADES™

The blades that do the work are made of a special steel alloy that has the aim of maximising blade life (200 hours with a set of blades is no exception). What is more, the blades are easy to sharpen. The chipping action of the shredding system will not require precision sharpening of the blades : A small portable grinder will do the job nicely. The mounting arrangement and accessibility of the blades inside the machine allows sharpening without the need for removal.

The blade edge is profiled. This tooting adds to the keenness of the blades to chop through the wood. Each blade has two reversible cutting edges, this means that the blades can be used to the full.

ELIET ULTRA PROF

TECHNICAL SPECIFICATIONS



HYDRAULIC GROUND DRIVE

Mobile shredders: ELIET's credo for years. As a result, at ELIET we keep with the philosophy of driving the shredder to the green waste material and not the other way around. In combination with the superfast shredding technology of the ULTRA PROF, a time saving of 50% can be easily achieved.

Wheel drive is hydraulic. Each wheel has a dedicated heavy-duty wheel motor. A straightforward to operate handlebar mounted lever is used for controlling the oil supplied to the wheel motors. Steering is proportional : The more you turn the lever, the faster the machine

moves in the chosen direction.

As a result, you move this machine - quite heavy at 992 lbs - freely within a garden with the greatest of ease. Also, driving the machine on and off a van or trailer is as easy as can be.

LOW GROUND PRESSURE

The total weight of the shredder is 992 lbs. As the shredder is mobile it may well be manoeuvred on less stable ground. That is why we have kept ground pressure as low as possible in order to prevent tyre sinkage or rut formation. Load distribution is as follows: Front axle load is 388 lbs and rear axle load is 705 lbs. If we take into account the size of the tyres, this respectively gives a ground pressure of 2 lbs/sq.foot and 1.75 lbs/sq.foot.



DOUBLE WHEELS...

A compact design was the starting point when designing the Ultra Prof. This is characterised by the narrow wheel base (35"). In addition, the centre of gravity was also kept as low as possible in order to increase stability. The requirements, however, are even somewhat higher under certain extreme conditions. For this, ELIET offers an option for extending the supporting surface of the driving wheels. Suitable additional parts can be used to mount double wheels so that the wheel base is then 51".

ABM SYSTEM

With this electronic device you can make the most of your shredder. The system monitors the RPM of the engine. When engine speed drops below a critical RPM while shredding, feed speed is reduced accordingly. This is in order to take the strain off the shredding knives for a short time, thus removing any undue strain upon the engine and allowing to increase speed to maximum revolutions. This action takes but a fraction of a second without the operator hardly noticing. The RPM curve of the engine when running can be kept rather flat within a given range, which cuts fuel consumption. Optimum combustion conditions will reduce engine wear.



SIEVE SCREEN

The key factor for making good compost and waste chippings as decorative weed suppressant is uniformity in cuttings. This is the basic requirement of ELIET shredders for both wood waste and leafy green waste. A shredding screen fitted downstream the blade system helps achieve this.

This sieve screen makes sure the chips remain in the shredding chamber until they are small enough to pass through the tiny holes of the sieve. The chippings are intensively bruised through subsequent multiple cutting actions, which gives them an ideal texture for the best possible composting. The shredding system provides, in other words, added value to the composting process.

ELIET ULTRA PROF

TECHNICAL SPECIFICATIONS



ECO EYE™ SYSTEM

At ELIET we want to go one step further in our efforts to build more environmentally friendly machines. This has led to the development of EcoEye™ Technology, a system that analyses engine behaviour. When the system notices that the machine is no longer being actively used, the system will automatically switch the engine to idle. A machine-mounted infrared sensor detects the operator approaching the front of the feeding hopper. At this point, the EcoEye™ system causes the engine to go from idle to full thus allowing the machine to cut the material at full power. In short, EcoEye™ reduces fuel consumption and emissions when the engine is idling.

EASY AND LOW MAINTENANCE

The main purpose in designing the Ultra Prof series shredders is to offer the user outstanding shredding performance. Even the service technician charged with maintaining the machine has not been overlooked.

While an Ultra Prof series shredder is an example of compactness and safety, the machine gives easy access to each critical part when performing maintenance work. As with sports cars, the large polyester machine guards fold away like butterfly wings. With the guards tucked neatly away, the engine, belts, chains, filters, valves, bearings and lube points are made easily accessible. Likewise, it takes only 20 seconds to remove the discharge belt conveyor to provide access to the blades. The blade

shaft is fitted to the perfect ergonomic height for easy maintenance (in grinding, reversing, replacing).

A display on the dashboard not only gives visual indication of the number of revolutions and the run time, but will tell when maintenance is due.



The large fuel tank with a capacity of 5 gallons, allows this machine to run for one working day without the need to refill the tank. There are many more small details that will make a big difference in maintaining and operating your Ultra Prof.

TECHNICAL SPECIFICATIONS SHEET

PERFORMANCE

Engine selection	Honda GX 670 B&S Vanguard V-Twin
Engine start system	Electrical
Type	Gasoline
Number of cylinders	2
Cylinder capacity (cc) (B&S, Honda)	627 , 670
Power : kW/HP, DIN (B&S, Honda)	16,2 / 22 , 17,6 / 24
Number of chopping motions per minute (B&S, Honda)	48.000
Cooling	Air cooled
Capacity of the fuel tank	5,3 gallons
Capacity	Max. Ø 5-1/2"
Chipping capacity	300 cubic ft/h
Rotor	6 discs, 24 ELIET RESIST™/10 blades
Shredding technology	ELIET patented Chopping Principle™
Chip width	18.1/2"
Transmission (rotor)	2V drive belt
Feed assistance	Feed roller: Ø 5-1/2" Width of the belt conveyor: 13-3/4" Feed roller speed governor
Power control	ELIET ABM (Anti Blocking system)
Ergonomic and safe material feed	Feed height: 39" Feed opening: (HxW : 22"x28") Anti-projection screen

DESIGN

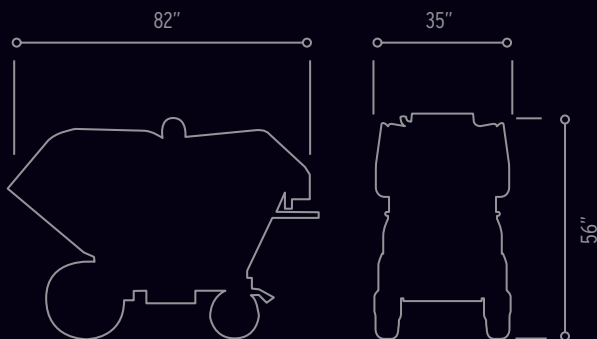
Compact Design	(L x W x H) 82" x 35" x 56" Low centre of gravity
Ecological	Exhaust Catalytic Converter Reduction : CO : 87% / HC : 90% / Nox 85%
Noise Reduction	Designed to have a low sound power level. Noise absorbing polyester cocoon Laeq : 90 dB(A)
Discharge System	Safe and quiet transport system 20" belt conveyor Discharge Height : 43"
Wheel Drive	Hydraulic rear wheels Parking brake Progressive speed control Pivoting front wheels Oscillating front pendulum wheel axle
Wheels	Driven wheels : 600 - 9 / 6 ply Front wheels : 13 x 5.00 / 6 ply
Weight	990 lbs
Comfort	Designed for easy maintenance Folding back the belt conveyor is possible for easy access to the blades.

STANDARD EXECUTION

Hour meter
Tachometer
Maintenance alarm

OPTIONS

Eco-Eye™ System
Double wheels



ELIET[®]
In harmony with nature



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