KOMPTECH

TECHNOLOGY FOR A BETTER ENVIRONMENT

AXTOR

UNIVERSAL WOOD SHREDDER

SHREDDING AND CHIPPING
CONTRARY-RESISTANT
HIGH THROUGHPUT
MAINTENANCE-FRIENDLY

HIGHLIGHTS

- Long feed area, open to the front, with filling capability on both sides
- Active feed system with pre-compression and extremely large feed opening
- 2 shredding concepts: shredder mode or chipper mode
- Ideal servicing access to the engine (underfloor engine) and to the shredding area
- Excellent mobility: Hook lift platform, semi-trailer chassis or steel tracks

1x AXTOR = **2 MACHINES**

The Axtor is one of the most flexible machines out there for processing wood and green cuttings. In fast-running shredder mode with free-swinging tools, it produces material for composting. In reduced-speed chipper mode with fixed tools, it makes biomass fuel for heating plants. Beside the high-performance Axtor 8012, the product range is now extended with the new Axtor 6010 and 5010.

High functionality but compact, while packing ample 590 and 480 HP power, these types are designed specifically for the medium to high output category. The most important features of the Axtor are a low-emissions diesel engine in a maintenance-friendly underfloor position, wide-area forward-facing feed with aggressive intake and high 1000 mm clearance (Axtor 8012).

01

Composting: Green waste, yard waste

Green waste is a valuable input material for composting. Fibrous shredding increases the surface area, for speedy microbial decomposition. To do this, the Axtor uses free-swinging tools with a special slim-line profile and armouring, shredding the material like a hammer mill at high drum speed. Everything landing on the huge feed table is grabbed instantly by the active feed system and pulled in automatically.
The Axtor's voracious appetite means that feeding is usually the limiting factor. The machine itself is capable of up to 400 m³ per hour.

02

Wood chips: Logs

With fixed tool holders and chipping blades, the Axtor is a powerful chipper with throughput up to 300 m³ per hour. Because contraries cannot be ruled out, the fixed tool holders have a patented overload protection system which prevents damage to the drum body, shaft and bearing on contact with a solid contrary. Usually work can be resumed quickly. With its large drum diameter (Ø=1.0 or 1.25 m) and efficient shredding geometry, the Axtor can handle logs up to a meter in diameter. Length is not an issue, since the tilt hopper leaves the feed table open to the front.

03

Processing of untreated waste wood, forestry residue, bark etc.

Bulky tangles of branches and treetops present no problem for this aggressive feed. No wonder - the Axtor 6010 feed opening is 1.45 m wide and 0.85 m high. The Axtor 8012 opens even wider: 1.61 m in width and impressive 1 m in height are available. With the drum turning at reduced speed, fixed tools with robust shredder blades break the material down into particles, with the size defined by a surrounding screen basket.
Waste wood is best processed with the free-swinging tools - they are very resistant to contraries and deliver the ideal chip size for use as fuel or material.

INSIDE
THE MACHINE

Built for top performance

The Axtor is powered by an underfloor-mounted Caterpillar®-diesel engine, with a tough power band and optional gearbox drive.
There are 32 or 36 (Axtor 8012) tool holders spiralling around the circumference. Since each holder is on an individual, removable floating shaft, tool change is easy.
On the Axtor 6010/5010 the shredder table and counter-cutter are firmly mounted to the frame, while on the Axtor 8012 the shredder table with counter-cutter is movable and is held in place by hydraulic tension.
The perfect positioning of the counter-cutter in connection with the large drum diameter ensures a very efficient cutting process.
Overlengths are kept out by the screen basket and friction floor.
Material discharge is by a conveyor that also provides a place to stand when doing maintenance work on the shredding area, and a wide discharge conveyor that reaches up to 6 meters high to fill container trucks.

Engine and drive

- Underfloor engine with excellent access from both sides
- Self-cleaning triple cooling system
- Gentle gear changes with electro-hydraulic belt tensioner
- All maintenance points external

Material feed

» Large feed area, open to the front, with hinged hopper
» Active feed with robust chain belt, upper and lower feed drum (Axtor 6010)
» Plug-in sidewall or folding sidewalls (Axtor 8012) for more hopper volume

Shredding unit

» Extrem big feeder opening (H x W) with 850 x 1450 mm or 1000 x 1610 mm (Axtor 8012)
» Large open drum diameter 1050 mm or 1250 mm (Axtor 8012)
» 32 or 36 (Axtor 8012) tool positions, easy tool change thanks to individual mounting

Screen basket

» Screen basket hydraulically extendable for easy change
» Wear-resistant screen baskets available in different sizes
» Overload protection for screen basket and friction floor prevents damage

Discharge system

» Wide discharge conveyor with excellent access to shredding area
» Discharge conveyor with three different lengths (4.5/5.5 /6.5 m), incline steplessly adjustable
» Magnetic drum or over-belt magnet

green efficiency® by KOMPTECH

green efficiency® by Komptech is an innovation programme that gives our machines lower consumption and higher performance. This incorporates the latest exhaust-scrubbing technology, reduced noise emissions and design measures that make the machines generally more efficient in use.

Axtor 6010/5010 - criteria in detail

Active feed system and efficient cutting geometry for up to 30 percent lower fuel consumption (in relation to comparable machines from competition)

Diesel engine with current exhaust technology (Tier 4 Final /EU Stage IV) for minimal harmful emissions (fine particulates and nitrous oxides)

Ideal positioning of engine for reduction of noise emissions

One machine - two functions: Powerful shredder and full-value chipper

HIGHLIGHTS

- » Simple conversion from shredder to chipper
- » Short setup times: Screen basket change in minutes, complete blade set change in 30 minutes
- » High operational dependability through contrary-safe design
- » Low wear and maintenance costs
- » Logically laid-out operating panel with graphic control for easy operation

EFFICIENT & **FLEXIBLE**

The biomass market is dynamic.
To thrive in this market as a fuel supplier or shredding service provider, you need a flexible machine like the Axtor.
With the right combination of shredder or chipper mode and the right blades and screening baskets, it can turn a wide variety of input materials into a product of the desired quality with high throughput.

Conversion from shredder to chipper is fast and simple: In three hours work or less, the machine is switched from free-swinging shredder tools to fixed holders with precision-cut chipping blades or tough shredder blades. Overload protection for the screen basket, friction floor and fixed tools minimizes damage in case of contraries.

01

Huge feed area

The feed hopper is a perfect match with the machine's performance and permits stress-free operation.
No length limit and a loading height of just 2.7 m on the Axtor 6010/5010 make loading easy. For long trunks the movable hopper opens in the front, while it can be closed for better feeding of other materials.

02

Active feed

High-end solution for the Axtor 8012:
The horizontal and vertical feed drums and a wide sectional steel belt ensure active transport into the machine.
On the smaller types a tough chain belt moves the material towards the intake.
Since the feed opening, conveyor and hopper are exactly the same width, there are no corners where things can get hung up.

03

Shredding or chipping

In shredder mode, there is a free-swinging tool in each tool mount.
In chipper mode, there is a fixed tool holder in each position that can take chipper or shredder blades.
Conversion takes about an hour.
The Axtor shreds at higher rpm and chips at lower rpm. Speed change is done by a gearbox.

04

Contrary-safe in chipper mode

The fixed holder can turn on its shaft, but is held in position on the drum by a shear bolt. In the event of a large contrary, the shear bolt breaks and the holder swings into the drum body, preventing additional damage in the shredding area.

05

Man and machine

The operating panel on the machine has a colour display that clearly shows all functions and the operating status. Colour-coded graphics help the user quickly locate the right controls for each function. The optional remote control has all the functions needed to control the machine.

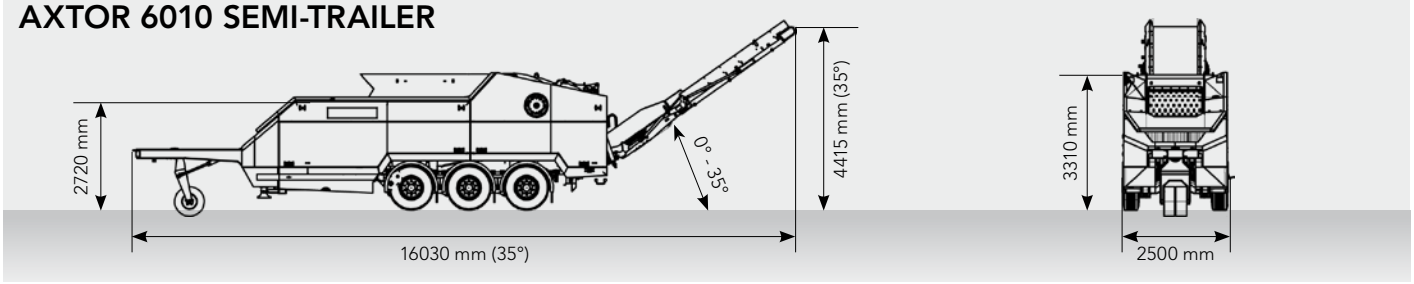
06

Easy maintenance

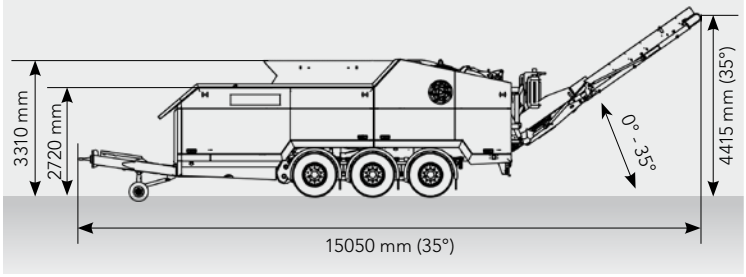
Designers and service technicians worked together on the Axtor right from the start, to give it easy maintenance access few other machines can match. The Axtor is the only machine anywhere to combine an underfloor engine, swing-out screen basket, easily accessible shredding chamber and individual mounting of tools on the drum.

TECHNICAL SPECIFICATIONS

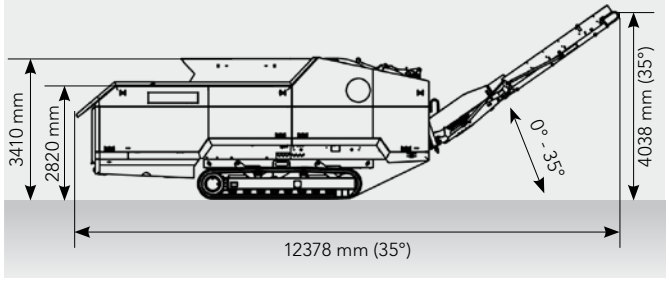
AXTOR 6010 SEMI-TRAILER



AXTOR 6010 TRAILER



AXTOR 6010 TRACK



	AXTOR 6010 / 5010	AXTOR 8012
Drive		
Engine: Power (kW/HP):	CAT ® C15 / CAT ® C13 433/590 / 354/480	CAT ® C18 570 / 780
Material feed		
Feed table L x W (mm):	5600 (3500 activ) x 1430	6000 (4500 activ) x 2100
Feed table height (mm):	2720	2800
Number of feed drums:	2 horizontal	3 horizontal, 2 vertical
Feeder opening H x W (mm):	850 x 1430	1000 x 1610 (with vertical feed drums 2100)
Shredding unit		
Drum diameter x drum width (mm):	1100 x 1510	1250 x 1630
Tools:	32 free-swinging tools or 32 fixed tools	36 free-swinging tools or 36 fixed tools
Drum rpm:	810 or 445 810 and 445 (option)	730 730 and 400 (option)
Material discharge		
Conveyor belt L x W (mm):	4500/5500/6500 (option) x 1200	4500/5500/6500 (option) x 1600
Max. discharge height (Conveyor belt 4500 mm, 35°, mm):	4415	4700
Dimensions		
Transport dimensions L x W x H (mm):	Trailer: 10700 x 2500 x 3800 Track: 8720 x 2854 x 3600 Semi-trailer: 11700 x 2500 x 3702	Trailer: 10600 x 2550 x 4000 Track: 8467 x 2854 x 3732 Semi-trailer: 11535 x 2550 x 3918
Working dimensions L x W x H (Conveyor belt 4500 mm, 35°, mm):	Trailer: 15050 x 2500 x 4415 Track: 12378 x 2854 x 4038 Semi-trailer: 16030 x 2500 x 4415	Trailer: 15000 x 2550 x 4650 Track: 13969 x 2854 x 4647 Semi-trailer: 16455 x 2550 x 4650
Weight, dependent on equipment (t):	Trailer: ~ 24,0 Track: ~ 27,0 Semi-trailer: ~ 26,5	Trailer: ~ 28,0 Track: ~ 31,0 Semi-trailer: ~ 32,0
Throughput (dependent on material)		
Throughput performance (m^3/h):	up to 310	up to 400

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