KOMPTECH®

Technology for a better environment

TERMINATOR

Slow-speed universal waste shredder

TERMINATOR - Slow-speed universal waste shredder

Introduction

Waste treatment for material recycling or energy recovery generally begins with a shredding process, in which the entire waste spectrum is conditioned for subsequent process stages. The TERMINATOR was built specifically for this purpose.
As a low-speed single-shaft shredder, it can be used for all types of waste. Applications with drum/opposing comb system variants range from coarse pre-shredding to defined shredding.
The continuous cutting gap adjustment allows tailoring of the produced particle size. A hydraulic drive with load-dependent speed control ensures maximum motor performance on mobile machines.

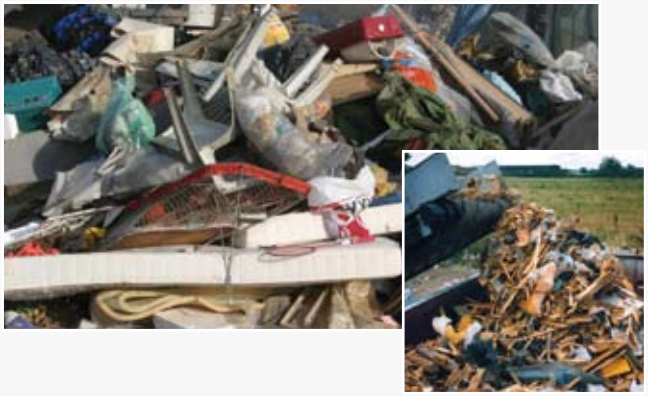
- able to shred the most difficult materials
- sturdy, contrary-insensitive pre-shredder
- two shredding units to match all job requirements
  U for Universal
  UF for Universal Fine
- variable particle size by adjusting cutting gap
- optimum utilisation of power with hydraulic drive
- multiple configurations to suit all customer needs




Application

Construction & demolition waste (C&D)

Hardly any other shredder can be used in such a broad range of applications as the TERMINATOR, something which is of course a massive benefit with construction and demolition waste.
Even the touthest C&D materials can be processed efficiently and at high volumes



Municipal solid waste (MSW)

For these material streams, uniform shredding and long tool service life are especially important. With plated teeth and easily exchangeable wear protection, they keep operating costs low. The adjustable cutting gap allows the degree of shredding to be precisely configured for subsequent process stages.

White goods

Because of its inhomogenous nature, this waste stream requires the highest shredding power, which is provided by the hydraulic drive. This also prevents jamming and blockages - clearing by reversing is possible at all times.

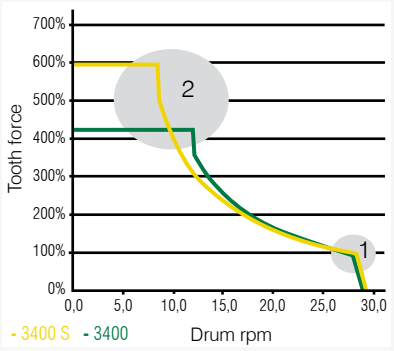
Tires, carpet, paper rolls

Almost any material can be handled with the TERMINATOR. All kinds of tires, from car tires to specialty tires, can be shredded with the UF unit thanks to high tooth force and hydraulic drive. The same applies to paper rolls, residual textiles, fridges, washing machines, etc. – there is no such thing as impossible.

TERMINATOR - Slow-speed universal waste shredder

Motor

- modern CAT®-diesel engine
- completely enclosed engine compartment
- efficient cooling system



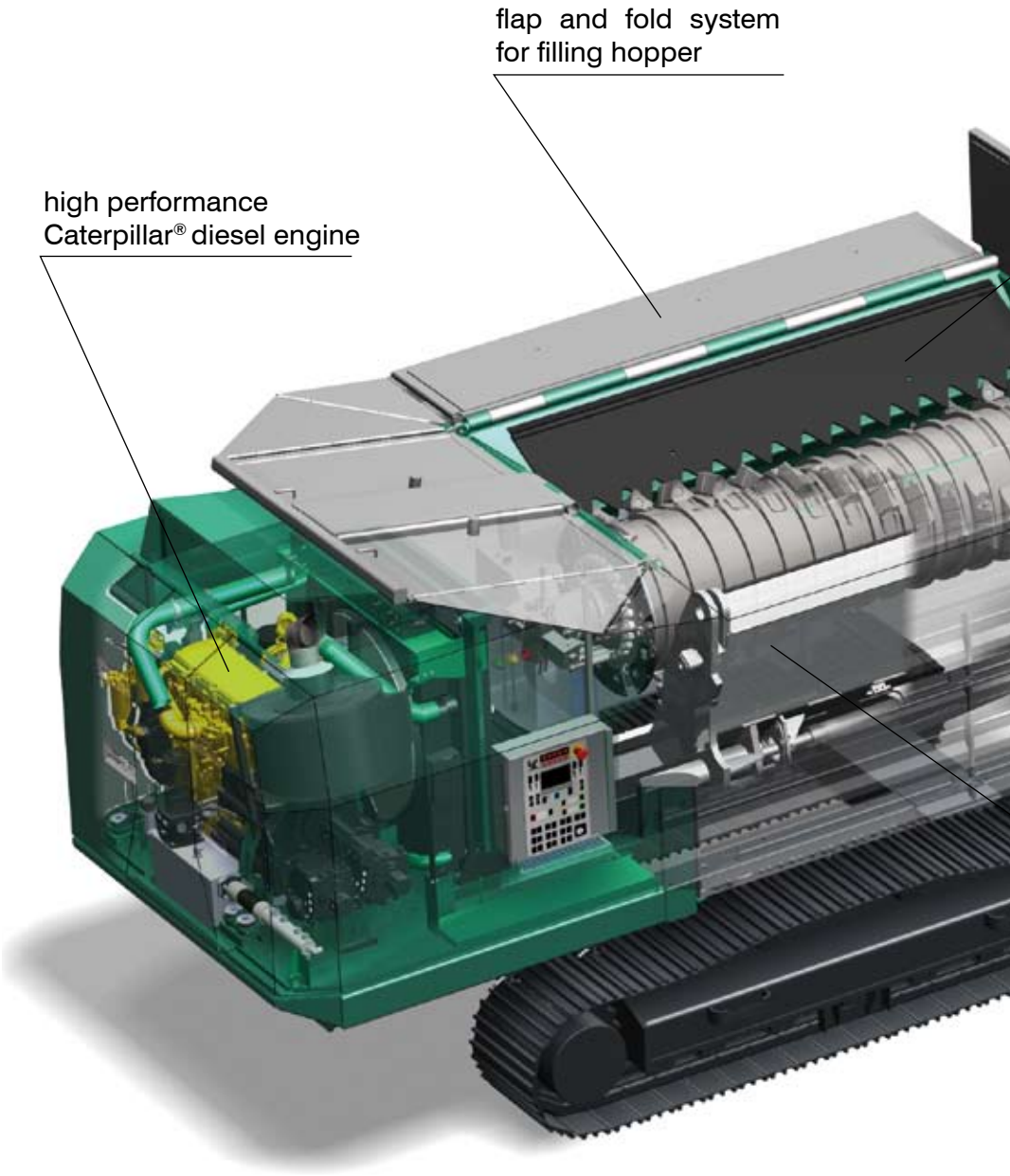
Hydraulic

- load-dependent speed regulation:
  1: high rpm at middle load
  2: max tooth force at highest load

Operator console

- logical layout for simple operation
- control electronics for monitoring of operational status

The Komptech brand is synonymous with quality, reliability and stability in product value. This means that only premier quality sourced components are used alongside components manufactured in-house.
The TERMINATOR has a modern Caterpillar® engine as its power source (TIER III). The complete muffling of the motor compartment reduces noise emissions to a minimum.
With load-dependent rotation speed regulation (constant power control), the hydraulic drum drive ensures full advantage is taken of the engine output. Overload protection prevents unshreddable contraries from ruining the tool elements. The clearly laid out function keys make operation simple and reliable. Control electronics circuitry continually monitors the operational status of the machine and intervenes to protect the machine should a breakdown occur.



MACHINE WALKABOUT

The TERMINATOR can be configured precisely for the application using equipment options. For example, central lubrication simplifies servicing. The TERMINATOR responds to the press of a button when using the convenient radio remote control function from the cab of the wheel loader.
Effective separation of metallic contraries is carried out by a swivellable hydraulic overhead magnet (or alternatively by a magnetic roller on the discharge belt).

Options

- overhead conveyor magnet
- central lubrication
- radio remote control

S-version

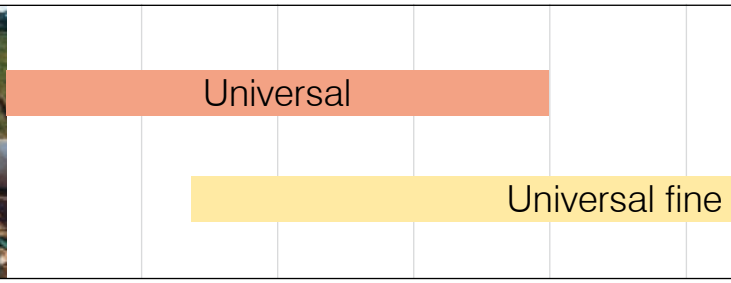
- double sided drum drive for higher shredding force
- for difficult material such as commercial waste, tyres

Adjustable counter comb

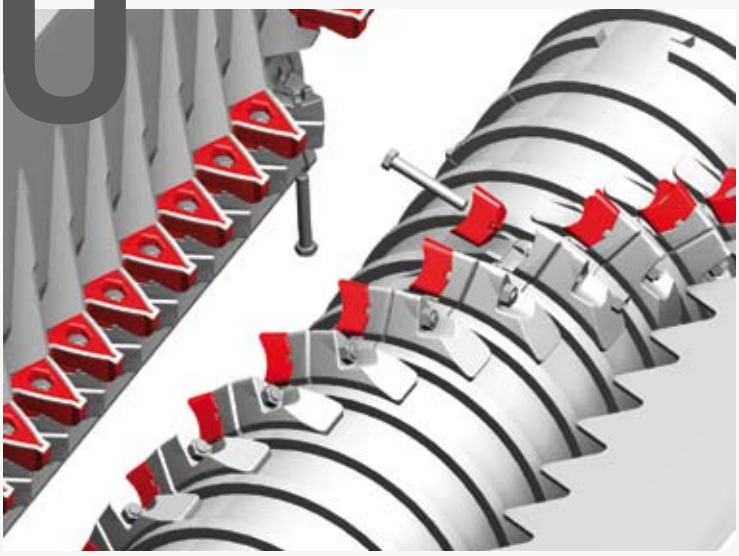
- for adjusting of particle size
- compensation of wear
- perfect accessibility to the shredding area

TERMINATOR - Slow-speed universal waste shredder

Coarse (up to >10˝)



Universal shredding unit



The roller has two spiral-shaped rows of triangular teeth. The teeth on the counter-comb are perfectly aligned with the geometry of the roller teeth. A central bolt connects tooth mounting and tooth.

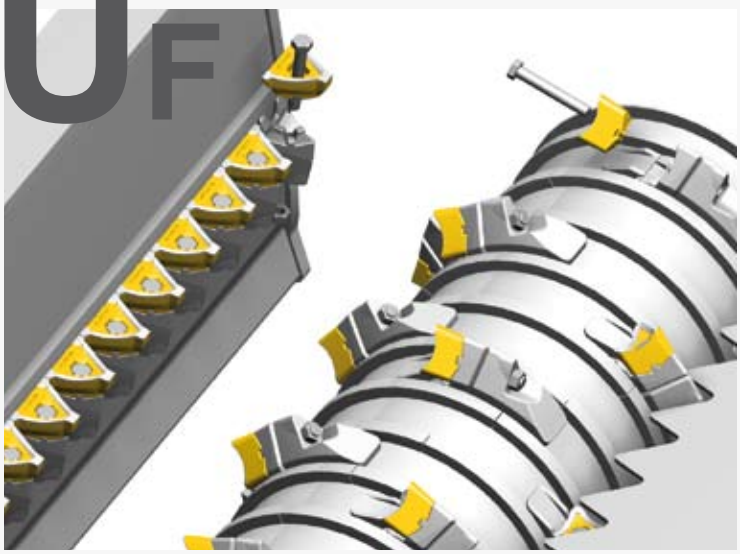
- aggressive material feed
- threefold use of drum teeth
- high resistance against contaminants
- adjustable cutting gap of 0.1˝ to 3˝

robust drum for coarse pre-shredding
for bulky waste, white goods, waste wood, railway ties, construction and demolition waste

Shredding unit

Fine (predominantly <4″)

UF Universal fine shredding unit



The UF shredding unit consists of a drum with 30 plated teeth arranged “chaotically”. In this configuration, the engaging tooth and following tooth are separated by a maximum distance. This way the available tooth force is concentrated on the engaging tooth.

- maximum throughput with difficult material
- threefold use of drum teeth
- higher degree of shredding than U-unit
- high resistance against contaminants
- adjustable cutting gap of 0.1″ to 3″

universal applications, including difficult materials
for MSW, bulky waste, commercial waste tires, special applications

TERMINATOR - Mobile

Mobile

TERMINATOR mobility means moving quickly and easily from A to B, and also speedy operational readiness on site: Unload, open up, power on, then start work. Komptech has mastered the art of building mobile high-performance machinery, adhering completely to tight dimensional, weight and emission tolerances like no other.
The TERMINATOR offers a choice of hook lift version, trailer chassis, or tracks. On the hook lift version, towing or automatic feet options provide manoeuvrability on site. With its airsprung axles and automatic feed device, the TERMINATOR offers the utmost in mobility.
The self-propelled steel tracks, with extra wide 3-bar baseplates, allow maneuverability on difficult terrain.

Advantages

- very convenient for road transport
- machine can be taken from the transport position into the working position immediately
- mobility also on site with towing or automatic feed device (options)
- the right chassis for every surface and application (hook, trailer, track)

TERMINATOR - Stationary

STATIONARY

If mobility is not required, electric drive is the best solution from an operational efficiency viewpoint. Given their energy efficiency, virtually maintenance-free operation and control-related benefits, electrical drives are the solutions of choice – especially for large-scale plants with long machine operating times.
The right machine exists for any system size because all installation sizes are available as electro-mechanical and electro-hydraulic versions.
Besides the standard stationary frame, isolation of the drive unit from the shredding unit is also provided as an option for the hydraulic version. This way the drive unit can be protected from dust and be installed easily and accessibly in containers or in a utility room. The compact shredding unit can be integrated into the process cycle without taking up too much space.

ADVANTAGES

- electric drive for high efficiency and minimal maintenance
- optional economic mechanical direct drive:
  low energy costs due to high efficiency
  simple installation: Set up - connect - power on
- optional hydraulic drive for high shredding power and continously variable throughput control
- optional isolated design:
  protection of drive unit (dust protected, better cooling)
  space-saving integration of compact shredding unit

station

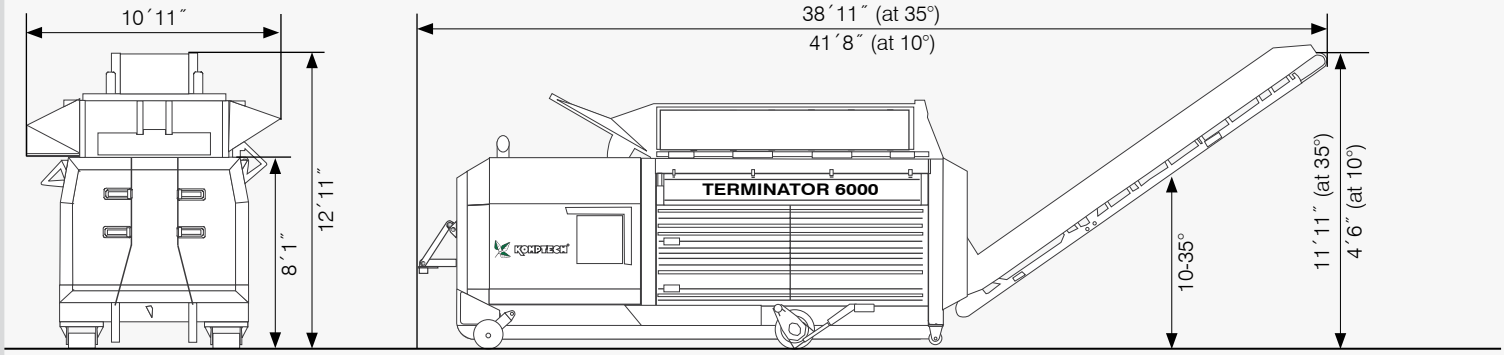
station

TERMINATOR - Slow-speed universal waste shredder

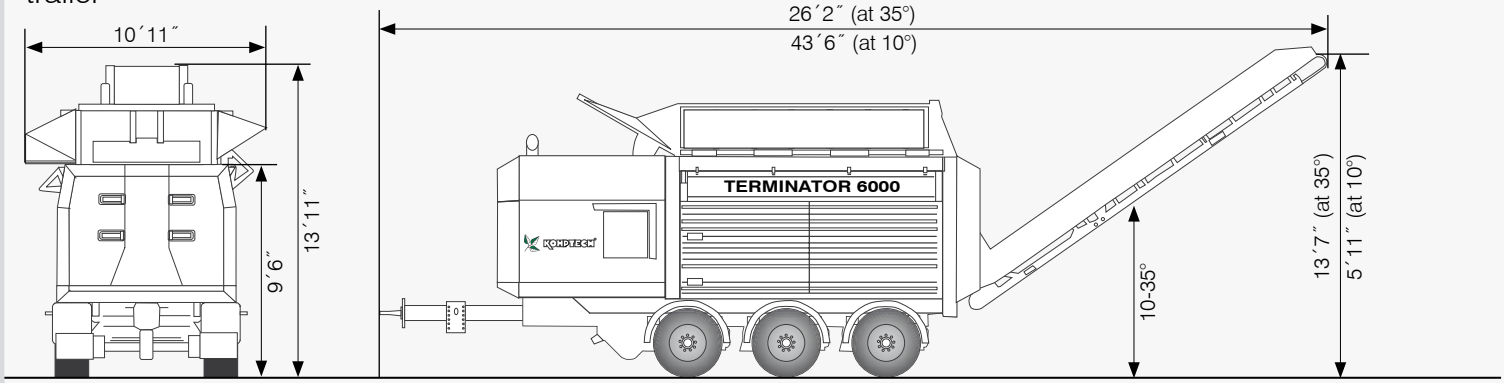
TERMINATOR	3400	3400S	5000	5000S	6000S
Motor					
Diesel engine					
Type:	Caterpillar® C9	Caterpillar® C9	Caterpillar® C13	Caterpillar® C13	Caterpillar® C18
Number of cylinders:	6	6	6	6	6
Power:	242 kW/330 HP	242 kW/330 HP Roller drive on both sides	328 kW/446 HP	328 kW/446 HP Roller drive on both sides	429 kW/583 HP Roller drive on both sides
Asynchronous motor					
Hydraulic rating:	1 x 160 kW	1 x 160 kW	1 x 200 kW	1 x 200 kW	2 x 160 kW
Mechanical rating:	1 x 160 kW	2 x 75 kW	-	2 x 110 kW	-
Loading heights					
Fill height:					
hook	8´1˝	8´1˝	8´1˝	8´1˝	8´1˝
trailer	9´6˝	9´6˝	9´6˝	9´6˝	9´6˝
track	9´7˝	9´7˝	9´7˝	9´7˝	9´7˝
Discharge height:					
hook	4´6˝ - 11´11˝	4´6˝ - 11´11˝	4´6˝ - 11´11˝	4´6˝ - 11´11˝	4´6˝ - 11´11˝
trailer	5´11˝ - 13´7˝	5´11˝ - 13´7˝	5´11˝ - 13´7˝	5´11˝ - 13´7˝	5´11˝ - 13´7˝
track	6´ - 13´7˝	6´ - 13´7˝	6´ - 13´7˝	6´ - 13´7˝	6´ - 13´7˝
Weight					
hook	~ 41,400 lbs	~ 43,600 lbs	~ 42,700 lbs	~ 44,900 lbs	~ 46,900 lbs
trailer	~ 46,200 lbs	~ 48,500 lbs	~ 47,100 lbs	~ 49,800 lbs	~ 51,800 lbs
track	~ 53,300 lbs	~ 55,500 lbs	~ 54,600 lbs	~ 56,800 lbs	~ 58,800 lbs
Transport position					
L x W x H *hook*	22´5˝ x 8´1˝ x 8´8˝	22´5˝ x 8´1˝ x 8´8˝	22´5˝ x 8´1˝ x 8´8˝	22´5˝ x 8´1˝ x 8´8˝	22´5˝ x 8´1˝ x 8´8˝
L x W x H *trailer*	26´2˝ x 8´4˝ x 10´7˝	26´2˝ x 8´4˝ x 10´7˝	26´2˝ x 8´4˝ x 10´7˝	26´2˝ x 8´4˝ x 10´7˝	26´2˝ x 8´4˝ x 10´7˝
L x W x H *track*	21´7˝ x 9´4˝ x 10´4˝	21´7˝ x 9´4˝ x 10´4˝	21´7˝ x 9´4˝ x 10´4˝	21´7˝ x 9´4˝ x 10´4˝	21´7˝ x 9´4˝ x 10´4˝
Working position					
L x W x H *hook*	38´11˝ x 10´11˝ x 12´11˝	38´11˝ x 10´11˝ x 12´11˝	38´11˝ x 10´11˝ x 12´11˝	38´11˝ x 10´11˝ x 12´11˝	38´11˝ x 10´11˝ x 12´11˝
L x W x H *trailer*	40´9˝ x 10´11˝ x 13´11˝	40´9˝ x 10´11˝ x 13´11˝	40´9˝ x 10´11˝ x 13´11˝	40´9˝ x 10´11˝ x 13´11˝	40´9˝ x 10´11˝ x 13´11˝
L x W x H *track*	35´8˝ x 10´11˝ x 10´4˝	35´8˝ x 10´11˝ x 10´4˝	35´8˝ x 10´11˝ x 10´4˝	35´8˝ x 10´11˝ x 10´4˝	35´8˝ x 10´11˝ x 10´4˝
Cutter / drum					
Length:	9´10˝	9´10˝	9´10˝	9´10˝	9´10˝
Diameter:	3´5˝	3´5˝	3´5˝	3´5˝	3´5˝
rpm *hook, trailer, track*:	max. 30 rpm	max. 30 rpm	max. 30 rpm	max. 32 rpm	max. 38 rpm
rpm hydraulic *station*:	max. 29 rpm	max. 27 rpm	max. 29 rpm	max. 29 rpm	max. 38 rpm
rpm mechanic *station*:	max. 19 rpm	max. 14 rpm Roller drive on both sides	-	max. 20 rpm Roller drive on both sides	max. 28 rpm Roller drive on both sides
Throughput (dependent on material)	to 50 t/h	to 55 t/h	to 65 t/h	to 90 t/h	to 110 t/h
Additional equipment	Remote control, central lubrication, over-belt magnet with swinging arm, towing unit *(hook)*, forward movement device *(hook, trailer)*, irrigation device				

TECHNICAL SPECIFICATIONS

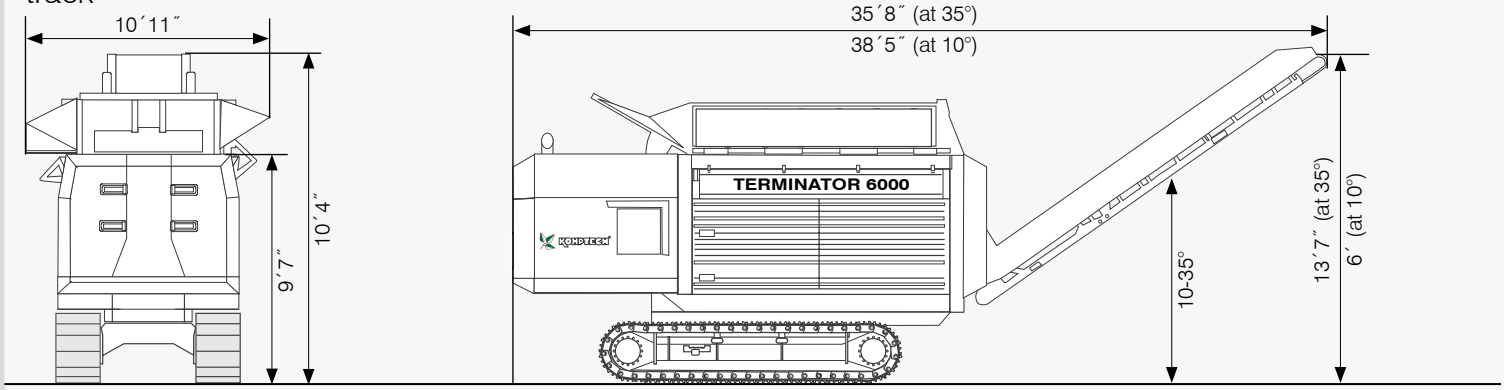
hook



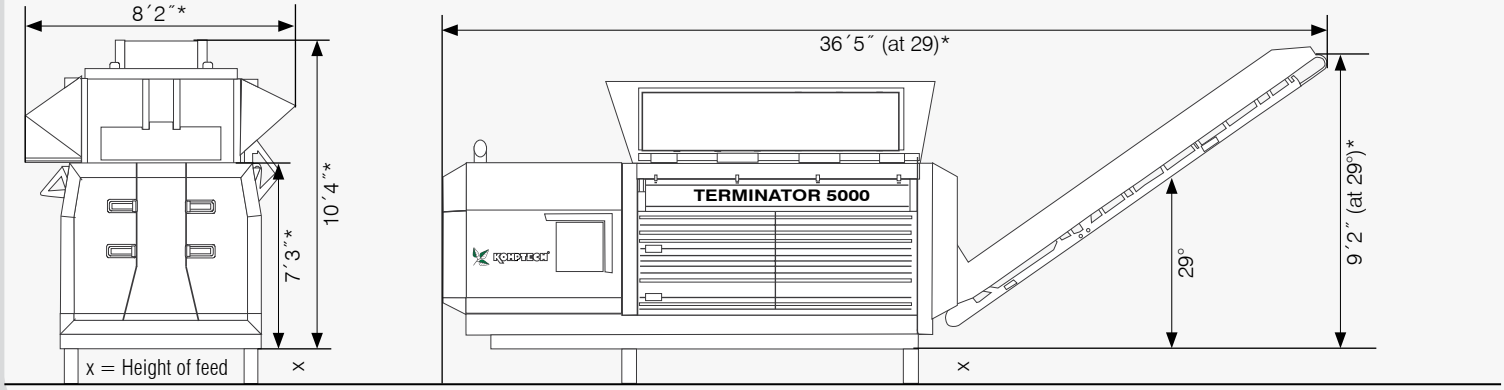
trailer



track



station (Fill height / discharge height depending on outrigger height and flap type) *or plant specific



Technology for a better environment

Komptech USA Inc.
1724 Majestic Drive #104
Lafayette, Colorado 80026
[t] 720 - 890 - 9090
[f] 720 - 890 - 5907
[e] info@komptechusa.com

www.komptechusa.com

 USA_102008