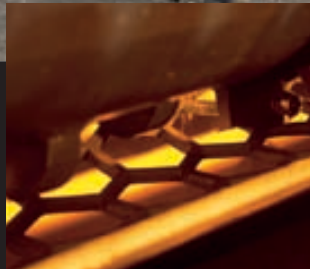


# SHARK

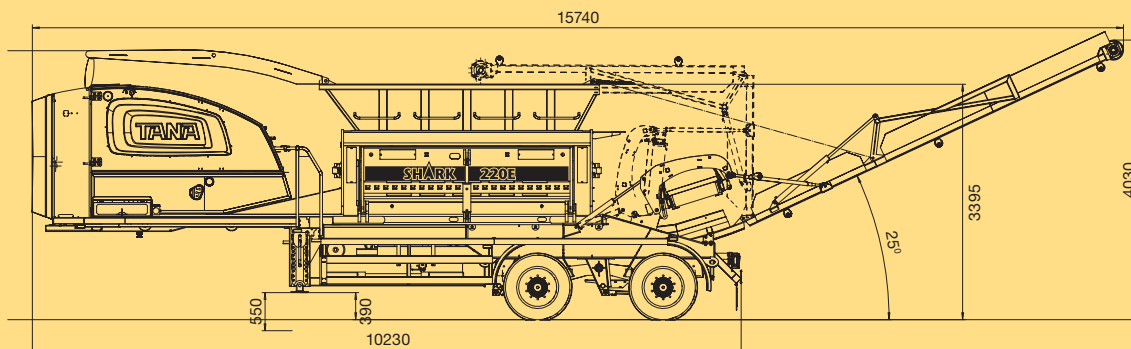
# 220D 440D

# Mobile Shredder



## Unique Versatility – suitable for shredding of

- Municipal solid waste
- Tires and wires
- Bulky waste: e.g. mattresses, pieces of furniture
- Waste wood
- Construction and demolition waste
- Plastics
- Packaging waste
- Green waste
- Railway sleepers
- Hard and tough special materials; e.g. carpets of paper machine, kraft paper



## General information

<b>Operating weight</b> .....	<b>220D</b> 24 000 kg, <b>440D</b> 27 000 kg
<b>Total transportation length</b> .....	10 530 mm
<b>Total operation length</b> .....	15 740 mm
<b>Total width</b> .....	2 520 mm
<b>Total transportation height</b> .....	3 880 mm
<b>Material feeding opening</b> .....	1400 x 3060 above the shredder unit
<b>Feeding height</b> .....	3 395 mm
<b>Outlet from the belt</b> .....	880 x 3060 below the shredder unit
<b>Belt discharge height</b> .....	4 030 mm
<b>Engine</b> .....	Caterpillar C15
<b>Rated power output</b> .....	403 kW (540 bhp)@2 100 rpm, SAEJ 1995
<b>No of hydraulic cylinders</b> .....	6
<b>Aspiration</b> .....	Turbocharger and intercooler
<b>Cooling</b> .....	Liquid
<b>Fuel tank</b> .....	750 l

<b>Power transmission</b> .....	Hydrostatic with stepless and automatic control of speed
<b>Pumps</b> .....	Rexroth, 2 pieces – variable displacement axial piston pumps with electrical proportional control
<b>Motors</b> .....	Rexroth, 2 pieces variable displacement plug-in motors
<b>Final drives</b> .....	Lohmann + Stolterfoht, 220D 2 x 110 kNm, total torque 220 kNm 440D 2 x 220 kNm, total torque 440 kNm

## Shredding tools

<b>Rotor shredding length</b> .....	3 000 mm
<b>Rotor speed</b> .....	max. 30 rpm
<b>Rotor diameter</b> .....	<b>220D</b> 870 mm, <b>440D</b> 920 mm
<b>Rotor knives</b> .....	<b>220D</b> 22 pcs, <b>440D</b> 33 pcs
<b>Counter knives</b> .....	23 pcs

## General description

TANA Shark 220D and 440D are hydraulically driven, diesel engine powered, single shaft, low speed mobile shredders. Their diesel engine and hydrostatic transmission are controlled by TANA Control System (TCS) control unit, which also protects the machine from overloading, overheating and damage caused by non-crushable material.

## Unique versatility

TANA Shark is suitable for the shredding of most reusable, recyclable and recoverable materials. The purpose may be volume reduction, renewable energy fuel production or recyclable material production.

The key to productivity is the machine's versatility. It is able to handle materials from domestic waste to waste wood, from plastics to cardboard and it can be used either as pre-shredder or making the required particle size in one phase.

## Rotor and cutting knives

TANA Shark shreds material by cutting. The rotor configuration is a uniquely designed counter-twist. The cutting knives are reversible and made of highly wear-resistant material. There is a special rotor carrier assembly (pat. pend) protecting against possible damage in gearboxes.

## Adjustable screen

The rotor to screen clearance has a major impact on the overall functioning of the shredder. If the gap is too wide the capacity decreases and may eventually cause screen clogging. In TANA Shark 220D and 440D this clearance can be finetuned for a maximum performance.

Screens are available in different mesh shapes and sizes which the operator can choose from according to the requirements he has for the end product size.

The simple and robust counter knife design adds up to the versatility. The amount of the counter knives can be adjusted and they have two wearing surfaces.

## TANA Pro Track

An Internet based wireless connection to the shredders control system minimizes downtime by enabling immediate trouble-shooting and technical support. It also provides automatic reports on the operational costs of the machine. Reporting is available as option.

A variety of options available, e.g.:

- Reversible fan
- Hydraulic support legs
- Screen transport rack
- Electric fuel refill pump
- Engine air-intake pre cleaner
- Extension to conveyor

Weights and measurements are given within normal tolerances. Manufacturer reserves the right to alter the above as necessary. Revised print October 2010.

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# TANA

From Waste to Value