

TANA – Mobile Disc Screens



55/70x – On Tracks



55/70x – Hooklift

TANA – Mobile Disc Screens



THE MOST VERSATILE SCREENING TECHNOLOGY ON THE MARKET

TANA TE Disc Screen

The dynamic screening falls into the innovative category of next-generation screening machines with discs. It brings along significant advantages never seen before with the traditional screening systems.

The machine, unique in its kind, consists of a series of screening shafts into which series of discs are inserted and which is supported by a frame. An inverter in the machine enables changing the speed of the shafts. This allows the adjustment of the particle size by $\pm 20\%$.

The discs

The discs can be either 6-sided, 7-sided or 8-sided. Their flat profile is patented as well as the system with idler pipes, which prevent material wrapping around the shaft and clogging the unit.

Patented anti-clogging system

This patented Ecostar™ anti-clogging system is a result of over 20 years of experience, research and testing.

High capacity

Each machine will be tailor-made for a certain application, for example screening RDF for two or three fractions. The size, shape and the clearance between the discs iWs specified according to the material the machine will be used for.

For each material and purpose there is a specific configuration which assures ideal output and high capacity.





Applications

The technology is used with outstanding results in the separation of waste of all sorts, like:

- Industrial waste
- RDF & SRF
- MSW
- “dry & wet” separation of MSW
- Cleaning or selection industrial waste
- Construction and demolition waste (C&D)
- Recycled wood and green waste – biomass
- Paper and cardboard
- Rubber and tyres
- Metals, slags and ash
- Separating glass from waste
- Plastic and PET
- Compost screening before and after maturation in the biocells

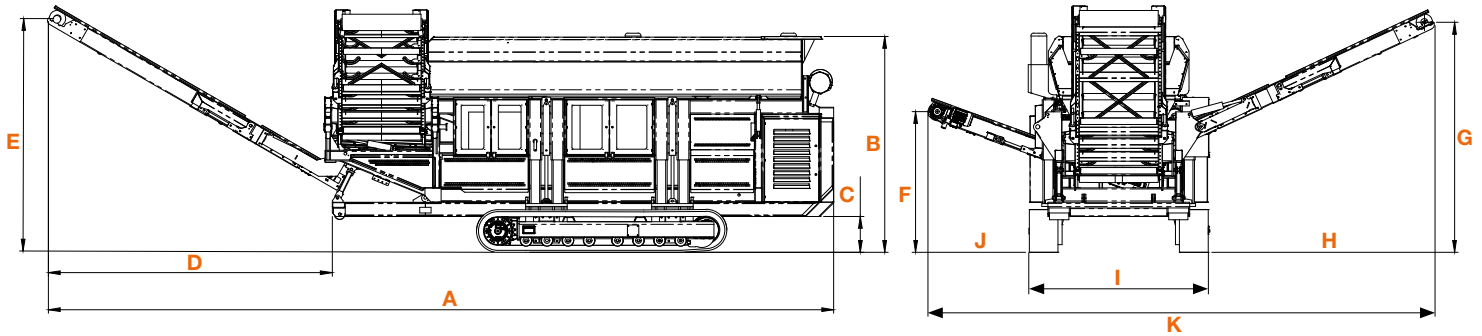


Want to know
more?

www.tana.fi/recycling-processes

Technical data

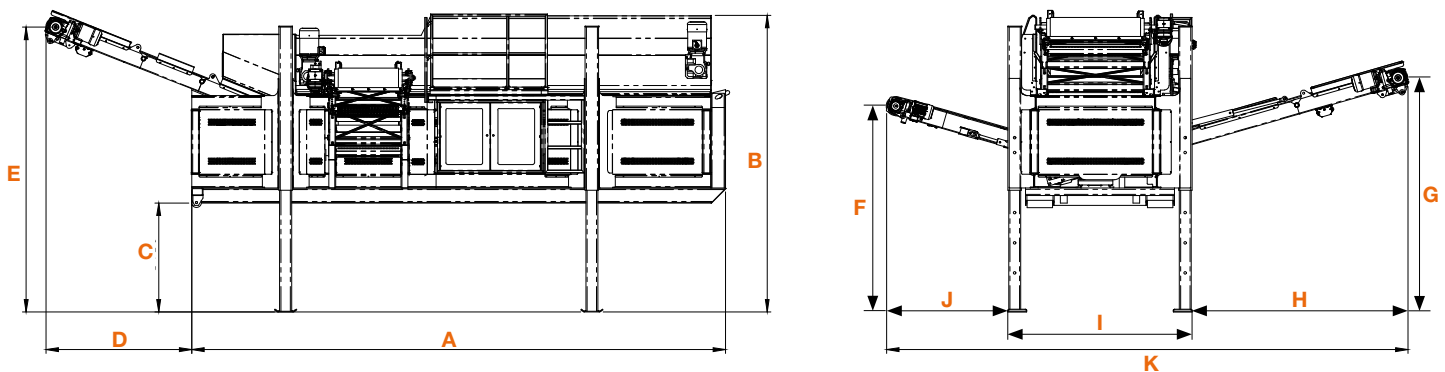
TANA TE 552/553 T & 702/703 T – On Tracks



General information	TE 552 T	TE 553 T	TE 702 T	TE 703 T	TE 552 H	TE 553 H	TE 702 H	TE 703 H
Operating weight, kg	16900	17300	16800	17200	13000	13400	14100	14500
Total length on duty (A)	10960		12290		9050		10550	
Max deck height (B)	3010		2910		3950		3950	
Ground clearance (C)	500		500		1450		1450	
Main conveyor length (D)	4000		3900		2000		2000	
Main conveyor height (E)	3300		3200		3800		3800	
Right conveyor height (F)	-	2000	-	1900	-	2800	-	2800
Left conveyor side (G)	3300		3200		3200		3200	
Left conveyor length (H)	3200		3200		2900		2900	
Undercarriage width (I)	2500		2450		2450		2450	
Right conveyor length (J)	-	1410	-	1440	-	1620	-	1620
Total width on duty (K)	7060		5620		6940		6940	

Diesel engine	Electric motors
Turbocharged four-cylinder FPT (Tier 3)	Torque: 2 x 420 Nm
48 kW / 1500 RPM	Power: 7,5 kW

TANA TE 552/553 H & 702/703 H – Hooklift



Unique versatility & intelligence

TANA Disc Screen X553T

**Getting more out of an investment is interesting.
Not just the machine.**

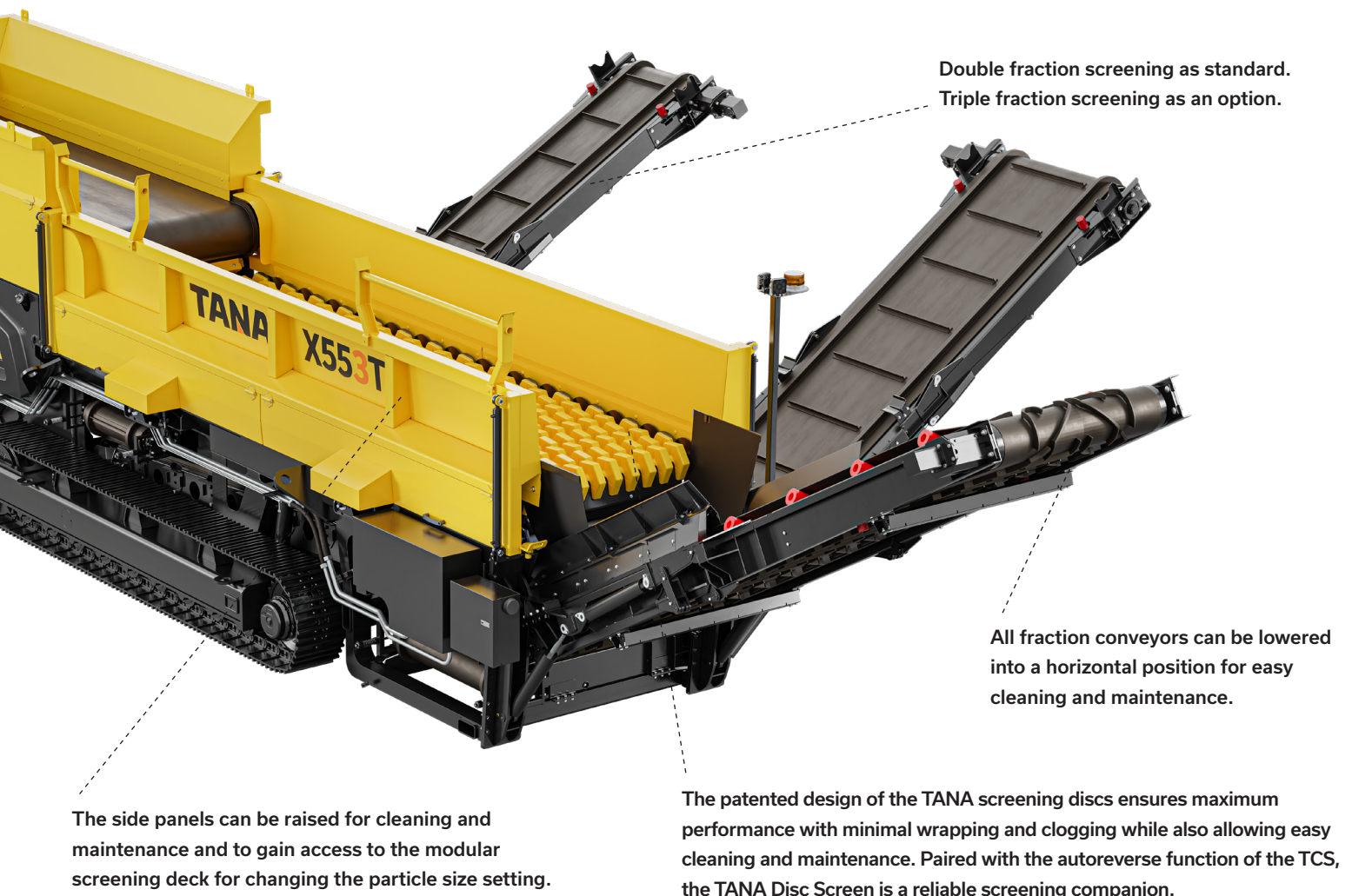


All you need. In one modular package.

Thanks to its easy adjustability and the unique intelligence behind it, the TANA Disc Screen is the most versatile screening solution. With its modular screening deck design, the machine can be easily configured for two or three fraction screening based on the customer's needs. With the TANA Disc Screen, the screening process can be easily optimized based on materials, feeding methods and process requirements.

The TANA Disc Screen is equipped with a new version of the proven and well-known TANA Control System (TCS). There are pre-set

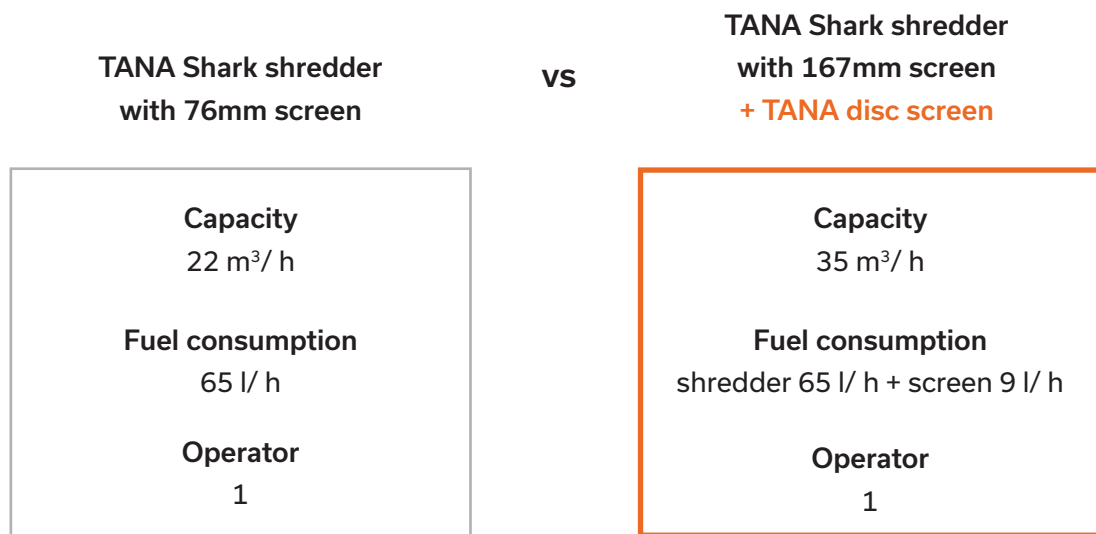
screening programs for different process materials which can be adjusted and finetuned for maximum process optimization. The programs can be configured, for example, by adjusting the disc deck rotation speed steplessly, the inclination angle of the entire screening area, and the auto-reverse function parameters for smooth and continuous operation. The fraction conveyors are equipped with scale systems that provide mass flow data on the screening process to easily monitor the whole process and the fractions. This data is available both in the TCS display and in the TANA ProTrack® system.



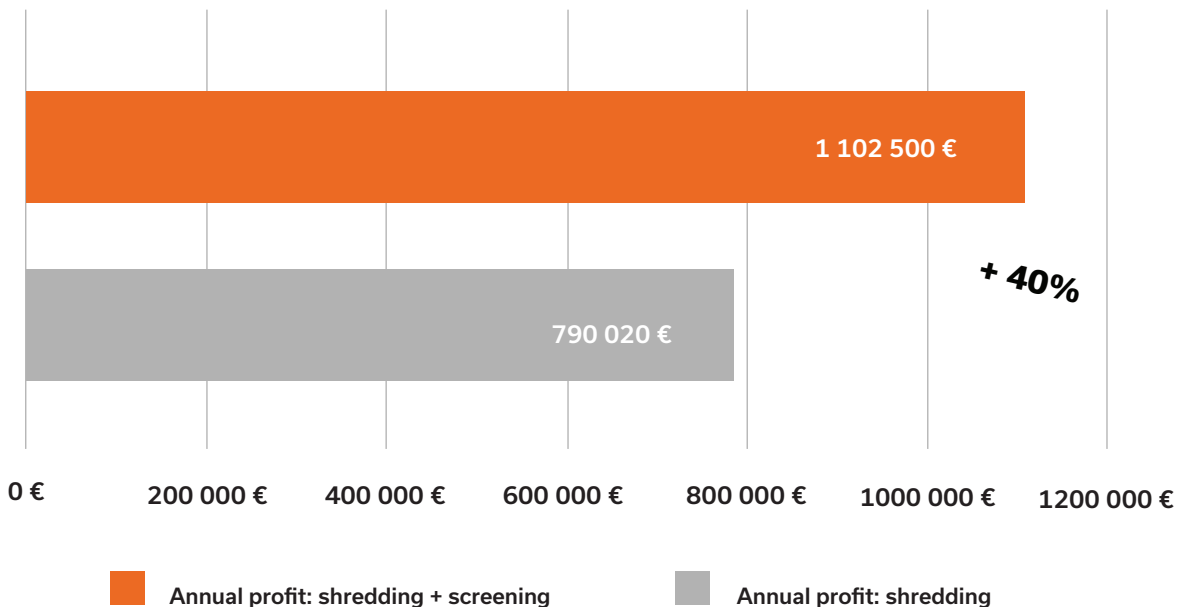
The TANA Disc screen is screening solution for removing large and heavy contaminants from pre-treated waste materials. The most common reasons for screening are:

- To produce a certain particle size for recycling and/or incineration processes
- To improve quality in terms of particle size and cleanliness (RDF / SRF)
- To remove inert inorganic fines

Possible business case: processing C&I waste



Annual profitability



Assumptions:

Gate fee: 80€/ ton

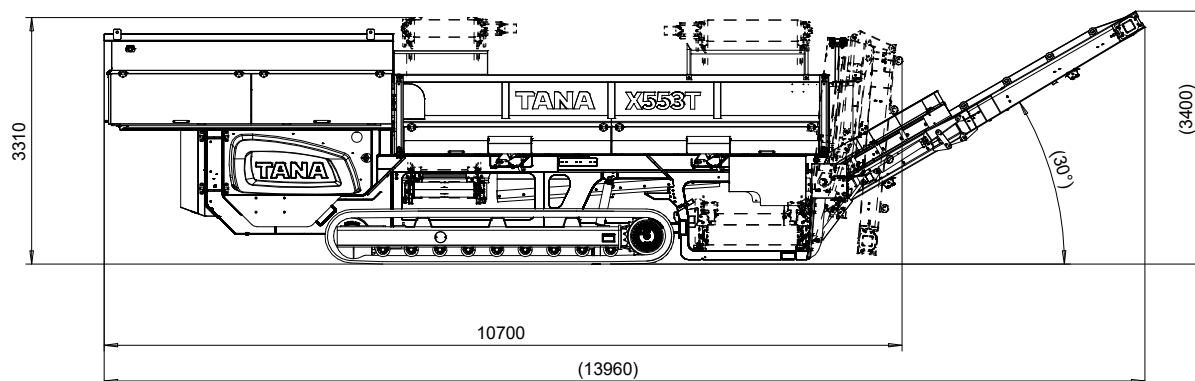
Shredding costs: 15€/ ton

Screening costs: 7€/ ton

Logistics: 8€/ ton

C&I waste equivalent --> 1 m³ = 0,35 tons

Annual operating hours: 1800 h



GENERAL INFORMATION AND MAIN DIMENSIONS

Dimensions	X552T	X553T
Operating weight	21 500 kg*	22 000 kg*
Total length in transportation	10 700 mm	10 700 mm
Total length in operation	13 960 mm**	13 960 mm**
Total width in transportation	2 510 mm	2 510 mm
Total width in operation	6 110 mm***	6 110 - 9 710 mm***
Total height in transportation	3 110 mm	3 110 mm
Total height in operation	3 080 - 3 690 mm****	3 080 - 3 690 mm****
Feeding		
Size of feeding hopper	4 m ³	4 m ³
Adjustable machine height	x	x
Adjustable machine inclination	x	x
Loading height	3 000 - 3 500 mm	3 000 - 3 500 mm
Screening		
Number of produced fractions	2	3
Oversize	x	x
Undersize	x	x
Fine grain	-	x
Modular screening deck (pat. pend.)	x	x
No. of undersize/oversize screening modules	4	3
No. of fine grain screening modules	-	1
Screening discs (pat. pend)	Tana	Tana
Powerpack		
Power generation	Diesel engine + hydraulics	Diesel engine + hydraulics
Emission	Tier 4 Final, EU Stage V	Tier 4 Final, EU Stage V
Optional power generation (screening only)	Electric motor + hydraulics	Electric motor + hydraulics

* Dimension may vary depending on screening module settings and other options.

** Dimension may vary depending on conveyor angle. Value given with nominal conveyor angles.

*** Dimension may vary depending on conveyor angle and conveyor setup. Value range given with nominal conveyor angles.

**** Dimension may vary depending on machine elevation, machine inclination and conveyor angle. Value given with max. elevation, 0° inclination and nominal conveyor angles.