



— QUALITY —
MADE IN
GERMANY



HAAS TYRON

Double Shaft Slow Speed Shredder

The HAAS TYRON Slow Speed Shredder shreds difficult material such as

MSW · WOOD WASTE · PALETTES · RAILWAY SLEEPERS · RESIDUAL WASTE
DOMESTIC, COMMERCIAL AND BULKY WASTE · CABLE DRUMS · TYRES · PAPER ROLLS
GREEN WASTE · MATTRESSES · ROOTS · ALUMINIUM · FOOD WASTE



HAAS[®]
Recycling-Systems

TYRON - the intelligent 2-Shaft System

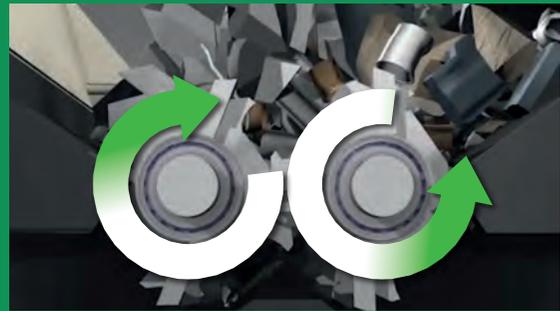
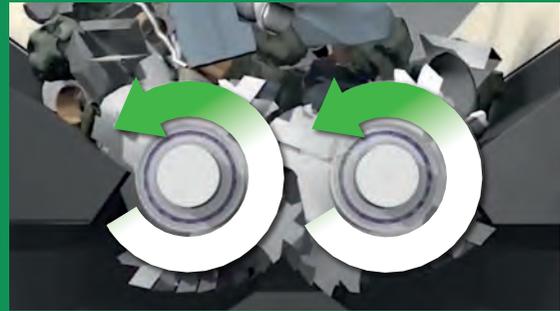
The machine with the Viking, the HAAS TYRON, is the ideal solution to an effective shredding of most difficult materials due to its intelligent 2-shaft-system.

Two independent shafts ensure highest flexibility!

Shaft speed, direction of rotation and reversing times can be adjusted, dependent on the material, by the customer at any time.

Wrapping of wire and long fibre material is avoided, throughput is maximised!

The intelligent and unique 2-shaft-system reduces wear and tear and downtimes, compared to shredders running synchronously.

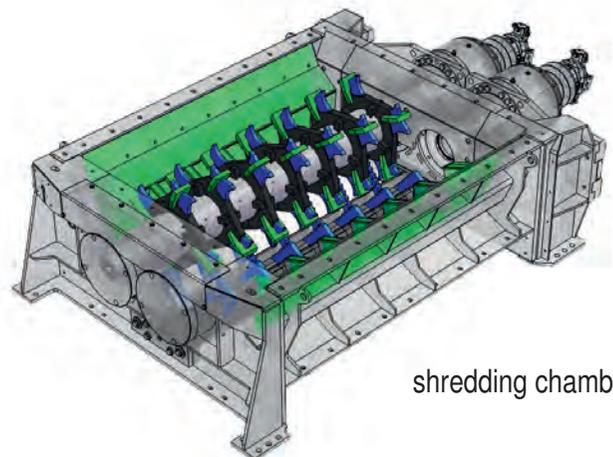


You can watch the video in our Youtube channel: <https://youtu.be/RuCBT7RnXJk>



Advantages

High throughput capacities of up to 100 t/h	✓
Resistent to foreign particles	✓
Low wear and tear costs, high longevity	✓
Easy access for service and maintenance works	✓
Very low noise emission	✓
Self-cleaning	✓



shredding chamber



STATIONARY VERSIONS / MOBILE VERSIONS



TYRON 1500-E



TYRON 2000-E



TYRON 2500-E



TYRON 1500



TYRON 2000



TYRON 2500

THE solution for the shredding in:

- RDF plants
- Biomass plants
- Incineration plants / combusters
- Recycling plants / waste wood
- Compost plants
- Domestic waste sorting plants

The Double Shaft Slow Speed Shredder TYRON captivates with its unique basic equipment:

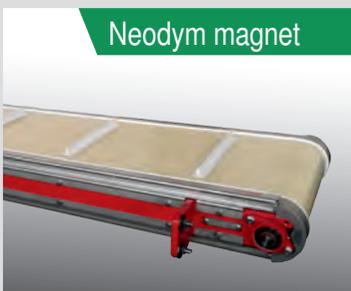
- Strong diesel- and electric engines
- Breaker bar
- IFM display
- Central lubrication for rotor bearings
- Outfeed belt and tilting hopper
- 12-channel-remote control
- POWER-RAM pre-filter
- Sound insulation system
- Scania IV final engines

With the approved standard configuration and many available options you will receive a high quality end product

- No „wrappings“ on the shafts due to the HAAS cleaning system
- Shredding programmes (waste, wood, mattresses, special)
- Waste shredding <150-500 mm, dependent on the configuration of the shafts
- Special HAAS shaft bearing and gear box protection system
- Revolution speed of shafts individually and infinitely adjustable, ca. 0-40 rpm
- Available in 3 sizes as well as XL-version for an extra strong shredding
- Stationary available in electric version
- Mobile diesel version on wheel axle (hydraulic adjustable), on tracks or trailer
- Low wear and tear costs

OPTIONS

- Pre-hardfaced shafts and tools
- Belt with steel inlay
- Fine tools
- Belt speed adjustable
- Special varnish in corporate colour
- Stainless steel drive pulley (for magnet use)



Neodym magnet



hydraulically adjustable magnet



On tracks with rubber shoes



Colour display and remote control

CUSTOMIZED MANUFACTURE



- 1 Outfeed belt**
- Outfeed belt customized possible
 - Individual dropping height and solutions possible



- 2 Overband magnet**
- Crosswise or in direction of transport
 - Permanent / neodym electric



- 3 Infeed area**
- Individual hopper solutions possible



- 4 Shredding shafts**
- Special wear and tear protection with hardfacing
 - High lifetimes
 - Specific customization possible
 - Low fines content



- 5 Material feeding**
- Tilting hopper



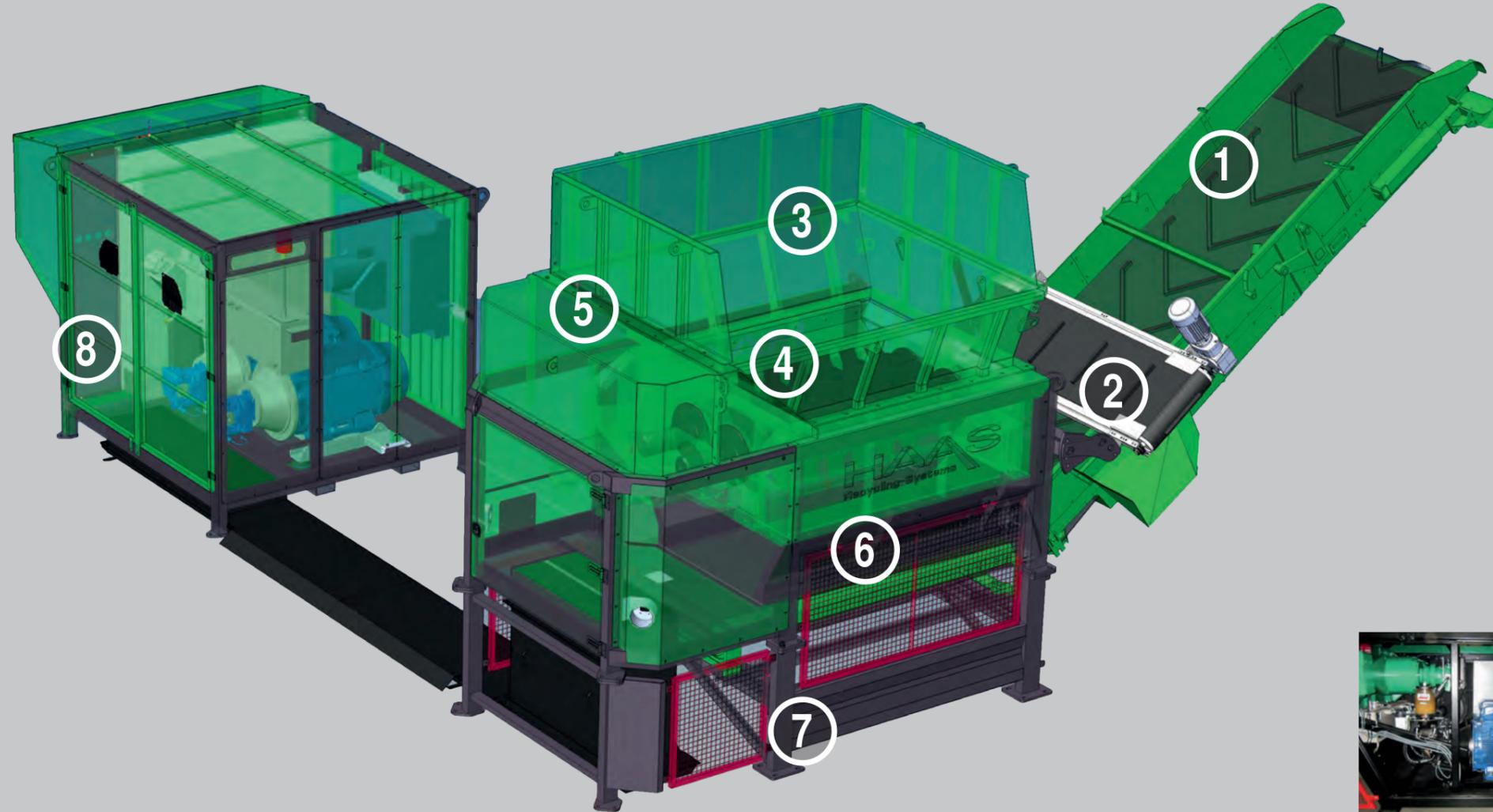
- 6 Tiltable transfer**
- Breaker bar easy change
 - Easy access to the shafts



- 7 Support**
- Individual solutions possible



- 8 Separate power unit**
- Powerpack
 - Easy access for service and maintenance works

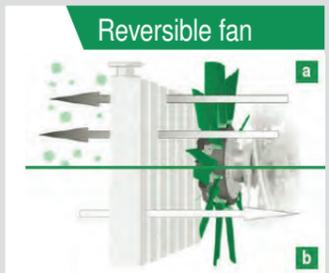


- Mechanically or hydraulically height adjustable magnet
- Engine in tier 2 version without SCR

- CAT engine on request
- Radiator cleaning
- Soft start of main engines

- Frequency converter control for main engines
- Air condition for switchboard
- Heater for hydraulic oil tank

- Fire extinguishing system (in the engine compartment)
- Spray system (dust minimisation)



THROUGHPUT CAPACITY

Designation Type	Power		No. of Shafts	Shredding Chamber Φ x Length (mm)	rpm
	Diesel	Electric			
TYRON 1500	350 HP / 257 kW	2 x 90 kW	2 Shafts*	700 x 1.500	max. 40**
TYRON 1500 XL	400 HP / 294 kW	2 x 110 kW			
TYRON 2000	350 HP / 257 kW				
TYRON 2000 XL	400 HP / 294 kW	2 x 132 kW		700 x 2.000	
TYRON 2500	770 HP / 566 kW	2 x 160 kW			900 x 2.500

* The number and form of the tools is adjusted according to the requested final material.

** The revolutions per minute of the shafts can be infinitely adjusted from 0-40 rpm. Furthermore, both shafts are driven separately, and can thus run with different speed. Due to the variety of the discs per shaft and the tools per disc, an end product of ca. 150 - 500 mm can be achieved.



The HAAS TYRON convinces with high throughput capacities of up to 100 t/h!

	TYRON 1500	TYRON 2000	TYRON 2000 XL*	TYRON 2500
Waste wood	up to 25 t/h	up to 50 t/h	up to 65 t/h	up to 100 t/h
Green waste	up to 35 t/h	up to 50 t/h	up to 60 t/h	up to 85 t/h
Domestic waste	up to 38 t/h	up to 50 t/h	up to 50 t/h	up to 100 t/h
Bulky waste	up to 25 t/h	up to 35 t/h	up to 40 t/h	up to 65 t/h
Industrial waste	up to 30 t/h	up to 40 t/h	up to 45 t/h	up to 85 t/h

*Available on demand. Please request our brochure.

Remark: The indicated capacity depends on the final product, the tools and the tool configuration.

**Stronger! More efficient!
TYRON 2000 XL 2.0!**

Request our brochure now!

