HAMMEL
RECYCLINGTECHNIK

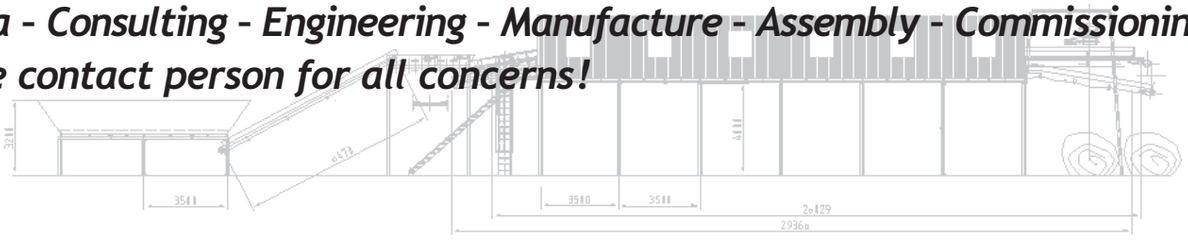
HAMMEL - Plant engineering and construction
The complete solution

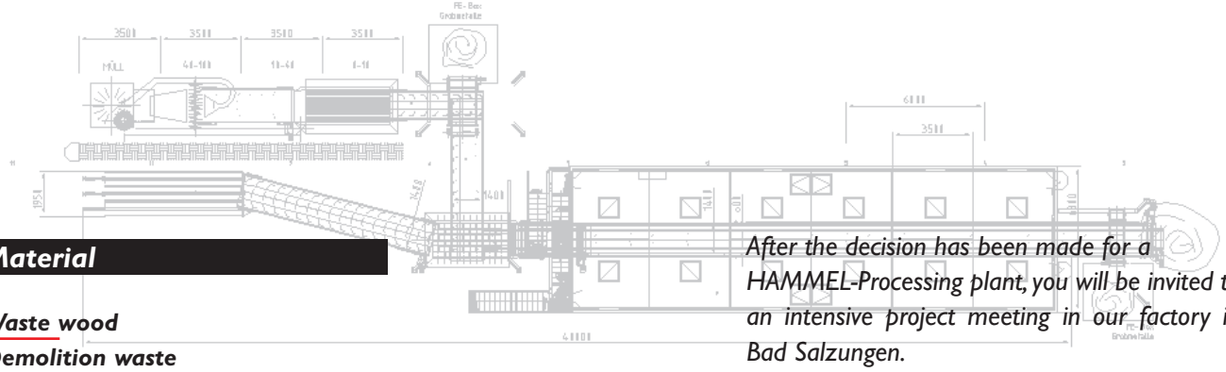
Commissioning
Assembly
Manufacturing
Engineering
Consulting
Idea

www.hammel.de

The complete solution!

If you tell us your demands, we develop ideas for your individual plant!
Idea - Consulting - Engineering - Manufacture - Assembly - Commissioning
One contact person for all concerns!





Material

- ***Waste wood***
- ***Demolition waste***
- ***Pallets***
- ***Railway sleepers***
- ***Bulky waste***
- ***Domestic waste***
- ***Commercial waste***
- ***Industrial waste***
- ***C & D waste***
- ***High caloric fuels***

After the decision has been made for a HAMMEL-Processing plant, you will be invited to an intensive project meeting in our factory in Bad Salzungen.

Here your individual requirements and aims are combined with our ideas and experience.

From this moment on a project team will be at your disposal, consisting of experienced sales representatives and design engineers, to conceive the optimal plant solution.

The most powerful primary shredders ...

At first the HAMMEL-Primary Shredder processes the material, like waste wood, industrial and commercial waste or extremely heavy materials, like railway sleepers, roots and stumps, paper rolls, mattresses and car bodies, creating a coarse pre-shredded material for the following processing steps.

The stationary HAMMEL-Primary Shredders can be planned either as a complete machine or in component formats depending on the individual local conditions.
Thereby the shredding and the power unit are separated. The machine is therefore flexible and is arranged to suit structural circumstances.

Pre-determined shaft configuration regulates the material size for further processing steps.

The thousandfold proven HAMMEL-Primary Shredder, series VB 750 / 850 / 950 is featured:

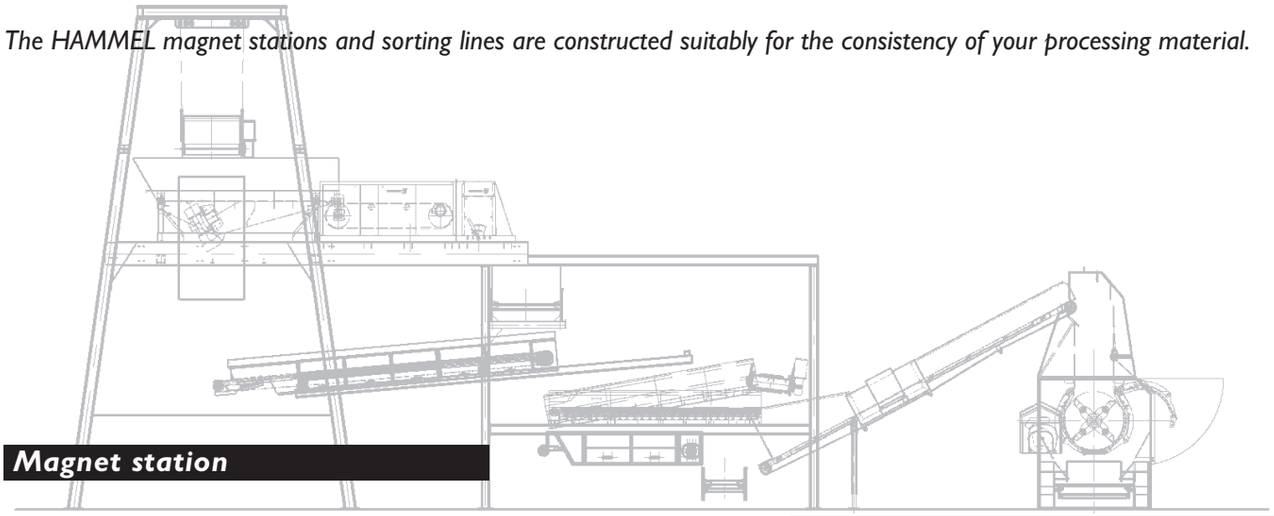
ADVANTAGES

- ***customisation***
- ***high performance***
- ***high operation efficiency***
- ***high operational availability***
- ***high operating life of the shafts***
- ***robust and simple construction***
- ***low energy and wear and tear costs***
- ***minimal dust generation***
- ***very low noise generation***

Separation and sorting, recycling in perfection

Valuable energy reserves are slumbering in waste. Whoever sorts it the right way, is earning cash! Potential recyclables like; metal, wood, plastics or stones are separated through sorting lines or via magnet stations. The recovered materials can be profitably sold or used for your own new products.

The HAMMEL magnet stations and sorting lines are constructed suitably for the consistency of your processing material.



Magnet station

If the material contains metal, a magnet station is integrated in the entire installation in connection to the primary shredder.

The magnet can either be a permanent or an electrical-overbelt magnet. These are mounted either laterally fitted or built in line.

Through the special magnetic cores a high separating rate is guaranteed and ferrous-parts are carried out over a discharge chute.

Sorting lines

Depending on which potential recyclables are significant for you, sorting lines with arbitrary container storing positions and sorting places can be built.

The sorting cabins are equipped with windows, directed illumination, electronic convector heating and an ventilation system, according to the health and safety at work act.





HAMMEL
- Screening technology

All of our HAMMEL Screens convince through individual fitted screen decks, high throughput performances, customised fractions and ideal fitting to local circumstances. They are service reduced by particular built screen segments.

The right screen is chosen accordingly to the processed material:

Tyre screen

applicable for the coarse screening of C & D waste

Drum screen

application in screening stones, soil, industrial and commercial waste, domestic waste and bulky waste
changeable screen segments, which determine the fractions

Roller screen

suitable for processing of industrial and commercial waste, waste wood and mulch
fine screening of the mineral parts, like sand, dust etc.

Star-disc-screen

for waste wood and fresh wood

HAMMEL-Secondary Shredder
How small should it be?

The HAMMEL-Secondary Shredder types NZS 700 / 1000 in electric and diesel version offer the energy saving and very efficient processing of pre-shredded materials. According the chosen screen basket, a final product size of 50 – 150 mm could be chosen. Creating an exact particle size for resale.*

** approx. values*

ADVANTAGES

- ***exact, equal chips***
- ***minimum of fine parts***
- ***ferrous and non-ferrous***
- ***metal separation***
- ***high performance***
- ***screwed knives***
- ***quick and easy change of tools***
- ***knives and screen basket***
- ***can be used on two sides***
- ***low energy consumption***
- ***low wear and tear costs***

Technical specifications

HAMMEL-Secondary Shredder*

Type	NZS 700 D/E	NSZ 1000 E
Drive	CAT C9 350 PS 160 kW/200 kW	250 kW/350 kW
Rotor diameter	700 mm	1.000 mm
Rotor width	1.500 mm	1.500 mm
Feeding conveyor width	1.200 mm	1.200 mm
Discharge belt width	1.000 mm	1.000 mm
Throughput performance	30 – 35 t/h	50 – 60 t/h
Energy consumption	1 l/t 7 – 8 kWh/t	7 – 8 kWh/t
Weight	14 t	19 t

**all specifications are average values* — *variable according material and final product size*

Discharge and conveying technology - made by HAMMEL

Feeding and dosing bunker

This material conveying technology consists of a feeding bunker for the take up of the material and conveys it via a dosing belt continuously and equally to the following processing station or rather in the combustor.

Conveyer belt

The base for our conveyer and discharge belts is an intelligent construction kit system. It consists of single meter elements. In this way it is possible to offer the right length according to the local conditions. The belts are available in different versions with a belt width between 600 mm and 1.400 mm, for example as a slewing belt conveyer or with conveyer cover.

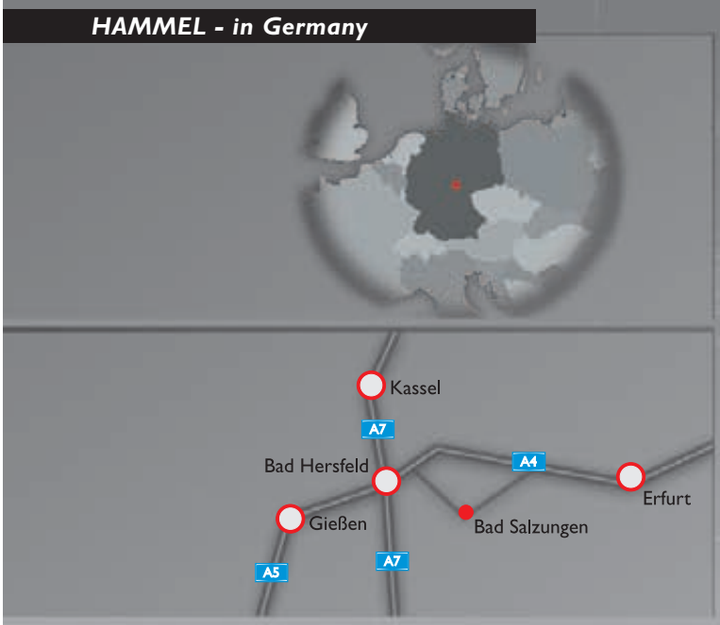
Walking floors

Walking floor systems convey the material slowly, equally and continuously from the bunker to the next conveyer system. As soon as the defined material level has been reached, the conveying will automatically be stopped.

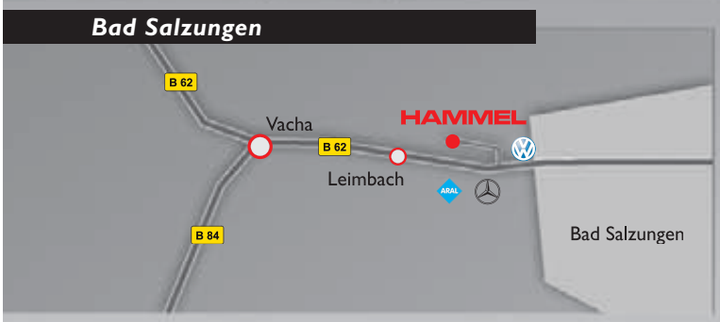
Drag link conveyer

Final products can be conveyed extreme steep and high to the next processing station or in separate boxes via drag link conveyers.

HAMMEL - in Germany



Bad Salzungen



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