Transform your waste
In its role as a general contractor, Eggersmann establishes public and commercial projects and is responsible for all work involved in planning and construction of recycling plants. These include engineering, implementation planning, procurement, production and supply of machinery and conveying/handling systems, and installation, start-up, trial operation and turnkey handover of the plant, plus all the civil engineering for the project.

With our effective deployment and smooth integration of professionals from all disciplines we can guarantee high levels of reliability at all stages of the project.

Recycling plants supplied by Eggersmann are particularly well-integrated in terms of infrastructure, control and regulating systems. In order to ensure a smooth handover, our experts remain on-site until the system is up and running in normal operation.

Mixed or pre-sorted industrial and commercial waste contains raw materials that can be recovered by means of mechanical processing. Mechanical recycling equipment supplied by Eggersmann separates recyclable waste by composition and particle size to deliver the recovered raw materials in a particularly effective and efficient way, in accordance with application and material requirements.

The size of each plant system is based on a detailed analysis of the substances being handled and the required quantities of recycled raw material. High-performance components developed by us in house guarantee maximum purity, reliability and fine-tuned capacity as required.

The entire design and setup procedure is placed in the expert hands of our highly-qualified, multi-disciplinary team.

The natural fermentation-based recycling of organic waste provides us with a potentially inexhaustible source of energy.

The fermentation of organic waste releases energy-rich methane gas, the high quality and economic efficiency of which makes it a viable alternative to fossil fuels. In addition to the recovery of biogas, Eggersmann recycling systems also provide nutrient-rich compost for use in the gardening and agricultural sectors.

Modular concepts, modern ways of optimizing efficiency and flexible applications are all characteristic of the solutions supplied by Eggersmann.

Eggersmann is your provider of key machines for almost all application areas within the recycling business.

It does not matter if you need a mobile, semi-mobile or stationary solution - BACKHUS, Terra Select, FORUS, TEUTON and BRT HARTNER have the right device for your needs.

BACKHUS is an expert when it comes to mobile turnover/composting technology, Terra Select is highly specialized in screening devices.

TEUTON and FORUS offer mobile and stationary machines for highly diverse shredding applications, whereas the BRT HARTNER portfolio ranges from opening to separating, from dosing/metering to sorting and screening.

At Eggersmann, our focus is on the customer. From developing modern plant constructions to the final implementation, maintenance, service and repairs - Eggersmann is your competent partner in all areas.

Our service staff does not only react promptly and flexibly to occurring problems and trouble-shoots them, but also shares its knowledge with the owner to improve workplace safety, make your processes more efficient and reduce operating costs.

This well-founded know-how that we share with you is the same we use to develop and improve our own recycling plants.
Designing and Planning of Recycling Plants

Conveyor Technology
- Troughed belt conveyor
- Sliding belt conveyor
- Acceleration belt
- Chain belt conveyor
- Steep belt conveyor
- Scraper chain conveyor
- Special conveyor technology: S-conveyor, roller conveyor

Solutions
- Tunnel filling device
- Tunnel discharge device
- Scraper chain conveyor with decompacting unit
- Steel structures (machine support, walkways, chutes)
- Digestate Conditioner
- Digestate Mixer
- Tunnel for composting and RDF production
- Biofilter

Process Control and Visualization
- Engineering
- Hardware
- Software
- Assembly
- Commissioning
- Online-service

Turning Technology
- Windrow Turner
- Windrow Turner with Cover Winder
- Lane Turner

Storage – Conveyors – Proportioner
- Bag Opener
- Moving Floor Conveyor
- Feed and Metering Hopper
- Bale Breaker
- Perforator
- Dismantler for Electric Appliances

Separators – Sifters – Screens
- Ballistic Separators
- Rotor Screens
- Screening Drums
- Air Belt Separators

Tank Technology
- Bolted Tank Systems
- Waste Water Treatment (SBR)
- Energy Storage Systems
- TES for thermal energy storage
- CES for cold energy storage

Materials
- Biological waste
- Bulky waste
- Commercial waste
- Compost
- Construction waste
- Demolition wood
- Digestate
- Dredged materials
- Electronic waste
- Green waste
- Household waste
- Light-packaging
- Manure
- Palm oil waste
- Paper and paperboard
- Refuse derived fuels
- Rootstocks
- Slag from municipal waste incinerators
- Sludge
- Soil remediation
- Sugarcane waste
- Trunks
- Unmixed PE/PET
- Waste wood
Roofed triangular heap

- Roofed, dynamic system as heap
- Regular turning improves oxygen supply
- Regular turning improves water output
- Homogeneous output material by regular turning

Closed tunnel with active pressure ventilation and circulating air

- Closed batch system
- Optional fully automated material in feed and discharge
- Optimized oxygen supply through pressure ventilation
- Optimized water output through pressure ventilation
- Fully automated process control
- Exhaust treatment of process and hall exhaust air

LTC-System in a capsuled lane with active pressure ventilation

- Closed dynamic system
- Fully automated material in feed and discharge
- Optimized oxygen supply through pressure ventilation
- Optimized water output through pressure ventilation
- Fully automated process control
- Exhaust treatment of process and hall exhaust air

CONVAERO
The membrane covered system

- Membrane covered to minimize emissions
- No roof or building required
- Simple and robust system operated by wheel loader
- Can be combined with BACKHUS turner
- Optimized oxygen supply through pressure ventilation
- Optimized water loss through pressure ventilation
Processes

Pre-treatment

RDF Production

Closed composter / cooling tunnels

Window composter

Compacting tunnel

Thermal drying

Tunnel filling system

Mobile mechanical treatment

Waste pre-stripping

RDF production

Further pre-treatment

Post-treatment

Tunnels for high throughput

 aerobic treatment

Composting / Drying

Tailored to specific requirements – small quantities and can be assembled according to individual needs.

is primarily suitable for processing output material – this flexible plant is tailored to specific requirements. It is very flexible in terms of budget, area requirement and setup.

is an innovative and proven plant technology of BACKHUS.

Aerobic treatment of MSW, organic waste. It is very flexible in terms of size, scale and waste treatment facilities. It is very flexible in terms of desired output, closed line composting up to the point of biological drying. Jumbo Size – tank systems.

Aerobic treatment of organic materials is processed into a substitute fuel to be used in a range of applications. Further, tunnels can be used in a range of applications. In the rotting tunnel. Depending on the desired material, different grained materials or sewage sludges.

Aerobic treatment of organic materials is subjected to mechanical and biological processes. The material is aerated, heated and dried. Aerobic treatment of MSW, organic waste, sewage sludge, for composting and biological drying of mixed to achieve a homogeneous and even material.

Various materials, e.g. green waste, electronic scrap, residual waste, can be separated into 2 or 3 fractions.

Aerobic treatment – closed line composting

Open / close line composting

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Further information as well as our references can be found at www.f-e.de.