



OBJECTIVES SERVICES SOLUTIONS

# INNOVATION IN SEPARATION



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WE MEET THE GREAT WORLDWIDE CHALLENGES WITH INNOVATIVE, SUSTAINABLE SOLUTIONS – FOR A LIVEABLE FUTURE.



## VALUES FOR A FORWARD-LOOKING CO-OPERATION

The work of our company is based on the three pillars of quality, customer orientation and sustainability. All employees identify with the shared values formulated in the following.

### Quality

To fulfill defined quality parameters at all corporate levels on a permanent basis and set new forward-looking quality standards.

### Customer orientation

To consistently tailor all measures and actions to our customers and their customer requirements across all markets.

### Sustainability

To protect natural resources and through our actions actively take responsibility for the conservation of a viable environment.

## TABLE OF CONTENTS

3	The future needs provenance
4	Machines and modules
6	Engineering
8	Production
10	Solutions for recycling and raw materials
12	Solutions for the food industry
14	Testcenter for maximum process safety
15	Service

## THE FUTURE NEEDS PROVENANCE!

As early as 1988, the family-run Bavarian company of TRENNSO-TECHNIK® recognised the elementary challenge of the future: **Protect resources, recover valuable raw materials and also save energy. The results of this objective are the pioneering solutions of TRENNSO-TECHNIK® in the field of process engineering and preparation of a wide range of materials. In particular, this refers to the three core competence areas of recycling, bulk material and food.**

We implement the projects of our clients with passion and creativity with the aim of achieving maximum cost-effectiveness and purity. To this end, we offer **complete systems** as well as **machines** and **modules tailored to customer requirements** which impress due to their innovative technology and robust construction.

As a shortage of resources is a growing global problem, we sell our successful products on the growing international market. With this strategy, we have experienced years of growth and thus consistently contribute to the necessary conservation of resources and protection of our environment.

With the various screening machines, separating tables, wind sifters, dispensing systems and conveying technologies, which are implemented as individual machines in modules or in complete systems, TRENNSO-TECHNIK® offers a solid basis for a profitable, valuable investment in the future. We ensure value preservation for you through durability and reliability with high-quality materials, precise machining and state-of-the-art technology.

Existing processing plants can also be supplemented with TRENNSO-TECHNIK® technology and thus sustainably increase the quality of the end-product and value added.

With its entrepreneurial vision and clear principles, TRENNSO-TECHNIK® sets standards in the continual development of dry separation processes: For a future which also offers convincing prospects for future generations with resource-friendly use of materials.



# HIGH-QUALITY AND PRECISE MACHINES AND MODULES

**TRENNSO-TECHNIK® offers various separating tables, wind sifters, screening machines, mills, magnetic units, dosing systems and conveyors. From individual machines to modules and complete turnkey solutions, TRENNSO-TECHNIK® offers a solid basis for a profitable, valuable investment in the future.**

## **Density sorting technology**

Machines for sorting dry bulk materials and raw materials:

- Separating Table TTS
- Longitudinal Vibration Table VLT

## **Wind sifter technology**

Wind sifters for various areas of application:

- Wind Sifter ZZS
- Wind Sifter QSS

## **Screening technology**

Screening machines for classification of granular and floury products:

- Screening Machine SIK
- Screening Machine TSM
- Screening Machine RSS
- Screening Machine SIS
- Screening Machine SVR
- Screening Machine STR

## **Conveying and dosing technology**

Mechanical means of transportation process:

- Elevator EL
- Screw Conveyor TS
- Trough Chain Conveyor KF
- Conveyor Belt FB
- Cyclone ZKE
- Rotary Valve AS
- Pneumatic Suction and Pressure Conveying Systems

## **Milling technology**

Special mills for optimal preparation:

- Horizontal Turbo Mill HOTHU/HOTU HD
- Vertical Hammer Mill VEHA/VEHA HD

## **Magnetic technology**

Magnetic units for various tasks:

- Drum Magnet TM
- Magnetic Separation Unit MSE
- Eddy Current Barrier Separator WSB

Density sorting technology



Wind sifter technology



Screening technology





**WITH OUR DRY SEPARATING PROCESS,  
WE ACHIEVE  
MAXIMUM PRODUCT PURITY.**



Energy-saving, environmentally friendly and without waste water, new standards are constantly being set which are individually and perfectly adapted to the individual materials and specific customer requirements. This ensures the highest possible product purity.

High quality materials, precise processing and state-of-the-art technology guarantee durability and reliability of the machines of TRENNSO-TECHNIK®.

#### Conveying and dosing technology



#### Milling technology



*EFFICIENT AND PROFESSIONAL*

# ENGINEERING



**THE KNOW-HOW AND CREATIVITY  
OF OUR QUALIFIED ENGINEERS  
LEAD TO TAILOR-MADE SYSTEMS.**





## TRENNSO-TECHNIK® IS YOUR PARTNER FOR PLANNING, DESIGN AND ENGINEERING OF INDIVIDUAL CUSTOMISED SYSTEMS

**From individual components to turnkey preparation and recycling systems, we design and plan the perfect system configuration.**

- Use of 3D-CAD software Autodesk® Inventor®
- Use of Autodesk® Navisworks®
- Re-design of turnkey systems and modules
- 3D-scan of existing systems, transfer of the scan point cloud to a ReCAP-format as the basis for use in CAD
- Expansion/extension of existing systems with TRENNSO-TECHNIK® technology
- Design of steel platforms and support structures in accordance with national standards
- Preparation of all necessary documents, drawings and certificates





A HIGH LEVEL OF VERTICAL INTEGRATION ALLOWS US TO REACT **QUICKLY AND FLEXIBLY** TO SPECIFIC CUSTOMER REQUIREMENTS.

*INDIVIDUAL AND FLEXIBLE*

# PRODUCTION



**WITH A STRONG TEAM SPIRIT  
AND WIDE EXPERIENCE,  
WE MASTER ALL CHALLENGES**

**We have always set great store by implementing the central production steps in-house. We thus maintain a high level of flexibility which enables us, even with exceptional requirements, to implement solutions quickly and economically.**

Thanks to our high level of vertical integration with all essential machining steps in-house, we are able to meet individual customer requirements quickly and cost-effectively.

**Our production processes comprise:**

- Welding
- Laser Welding
- Welding Robots
- Pickling
- Surface Blasting
- Electropolishing
- Drilling
- Turning
- Milling
- Sawing
- Punching
- Metalworking
- Painting
- Powder Coating
- Laser Cutting
- Water Jet Cutting
- Assembly

**With this combination of mechanical production processes and final assembly, we ensure the high quality of all our systems and machines.**



# SOLUTIONS FOR RECYCLING AND RAW MATERIALS



## Recycling systems as a sustainable solution

Each of the regularly published numbers clearly expresses one thing: The immense potential of recycling as a global economic factor. Based on standards and laws, the volume of raw material recovery is constantly increasing. The forecasts for natural resources and the demand for them require pioneering, sustainable solutions. We contribute to the solution – TRENNSO-TECHNIK® recycling systems for a sustainable future!

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THE FORECASTS FOR  
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**NATURAL RESOURCES AND  
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# MAXIMUM PURITY WITH IMPRESSIVE PRODUCTIVITY

In the recycling sector, the quality of the secondary raw materials should be as close as possible to that of the original condition and recovery should also be carried out in an energy-saving way. This is where separating and sorting of the various waste types come into their own, in the dry separation process, the technology of which is the world of TRENNSO-TECHNIK®.

## Pioneering dry separation processes and recycling systems from TRENNSO-TECHNIK®

Our machines and systems are designed in accordance with the latest standards for various applications of material recycling. Our product range includes systems for the recycling of



### E-Waste

- Waste Electrical and Electronic Equipment (WEEE)
- Printed Circuit Boards
- Cables
- Refrigerators
- Radiators

### Batteries and PV-Modules

- Batteries (LIB)
- Cathode/Anode Processing
- Lead-Acid Batteries
- PV Modules

### Ferrous and Non-Ferrous Metals

- Zorba
- Electric Motors
- Aluminum Fraction
- Used Beverage Cans (UBC)

### End-of-Life Vehicles

- Shredder Residues (ASR)
- Shredder Light Fraction (SLF)
- Shredder Heavy Fraction (SHF)
- Recovered Shredder Cable

### Ash and Slag

- Incinerator Bottom Ash (IBA)
- Slag and Dross

### Plastics & Packaging Material

- Plastic (PET, Foil, Granulate)
- Packaging Waste (Green Dot, Compounds)
- Window Frames
- Artificial Turf

### Tyres and Rubber Material

- Tyres and Rubber
- EPDM

### Mineral Materials

- Construction and Demolition Waste
- Mineral Waste
- Gypsum and Plasterboard
- Glass (Container Glass / Flat Glass)
- PVB (Windscreens)

### Organic Waste

- Compost
- Waste Wood

### Municipal and Commercial Waste

- Municipal Waste
- Commercial Waste
- MRF
- Refuse-Derived Fuel (RDF)
- Used Textiles
- Shoes
- Clinical Waste





# SOLUTIONS FOR THE FOOD INDUSTRY

## INCREASING QUALITY. TODAY AND IN THE FUTURE WITH TRENNSO-TECHNIK®

**Solutions for the food industry are one of four fields of expertise which we serve with our dry separating technology. Dried fruits and dried vegetables, coffee and cocoa, tea, herbs and spices, grains and nuts as well as eggshells are just some examples of how use of our plants leads to 100 % purity.**

The separating and sorting machines are the heart of every plant and form the core competency of TRENNSO-TECHNIK®. In the dry separating process optimised by us, we separate foreign materials from food. Every plant is developed for the individual requirements of the customers so that each one is a masterpiece of functionality and technology. On request, we supply our plants in a turnkey version.



**THE DEMAND FOR QUALITY OF  
FOOD IS INCREASING. CONSUMERS  
AND THE TRADE EXPECT MAXIMUM  
PURITY OF THE PRODUCTS.**



# FOR MAXIMUM PROCESS SAFETY **TESTCENTER**

As an indispensable process module between planning and production, we have invested in our company's own state-of-the-art Testcenter. Here, all envisaged solutions are tested for feasibility in terms of separation technology.

The findings thus obtained form the basis for the planning and production of customised systems. These test runs guarantee the customer reliability for optimum process engineering.

We shall be pleased to carry out tests with your product in our Testcenter.



AT OUR TEST CENTER, WE TEST EVERY MEDIUM **UNDER REAL-WORLD CONDITIONS**, ALLOWING US TO DESIGN THE **IDEAL SYSTEM CONFIGURATION** EVEN BEFORE AN ORDER IS PLACED.

AVAILABLE WORLDWIDE



# SERVICE



**ASSEMBLY, ELECTRICAL  
INSTALLATION, COMMISSIONING  
AND CUSTOMER SERVICE IN  
ORIGINAL TRENNSO-TECHNIK®  
QUALITY.**

**As a globally operating medium-sized company, perfect service is one of our basic pre-conditions for sustainable success.**

**Overview of our services:**

- Assembly
- Electrical Installation/Wiring
- Commissioning
- Training Support
- Training Courses
- Supply of Replacement Parts
- Worldwide Logistics



Naturally, we also offer comprehensive training in our company or on site, so that your employees can work very efficiently right from the start.

**Please also contact us if you have unusual requirements - we are sure that we can meet them for you!**





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