Obtaining raw materials. Increasing quality.
Over 20 years ago, the Bavarian family company Trennso-Technik recognised the elementary challenge of the future: protection of resources, reclaiming of valuable raw materials whilst at the same time saving energy. These objectives have resulted in trend-setting solutions from Trennso-Technik for the separation and sorting of bulk materials.

We face up to the challenges set us by our customers with passion and creativity, and with the aim of achieving maximum economic efficiency and purity. We offer both complete systems as well as machines and modules, tailored optimally to customer requirements, which impress through their innovative technology and robust construction – all of this with a high level of expertise.

Global raw material prices will rise in the long term. And every person in the European Union produces over half a tonne of refuse per year on average. Increased consumption in emerging industrial countries is also resulting in a strong upward trend worldwide.

This is the current situation. All of the regularly published figures show one thing absolutely clearly: the immense potential of recycling as a global economic factor. Standards and laws mean that the volume of raw materials being reclaimed is increasing constantly. The forecasts for the development of reserves of raw materials and demand for these underline the urgent need for future-oriented and sustainable solutions. In this respect, the quality of the secondary raw materials should be as close as possible to the original condition and the reclaiming should be carried out in energy-economising manner. This is where the separation and sorting of the various types of waste in dry separation processes comes into play; the related technology is the world of Trennso-Technik.

Our technology centre:
Testing centre for maximum process reliability.

We have invested in an ultra-modern, own technology centre which is an indispensable process module between planning and production. All solutions striven for in terms of separating feasibility are tested here.

The knowledge gained from this serves as the basis for the planning and production of customer-specific systems. These trial runs guarantee the customer the security needed for optimum process technology operations as well as a highly functional and reliable concept.
On the road to success.
Innovative dry separation technology!

As the scarcity of resources is a global problem, we sell our successful products on the constantly growing international recycling market. This strategy has enabled us to expand for many years and thus contribute continuously to the necessary protection of resources and the environment.

Through its various screening machines, separating tables, wind sifters, dosing systems and materials handling technology – available as individual machines in modules or in complete systems –, Trennso-Technik offers a solid fundament for a highly profitable and valuable investment in the future. We guarantee value retention through longevity and reliability with high-quality materials, precise workmanship and the latest technology. Trennso-Technik draws on all desired technology suppliers for the integration of complementing machine technology.

Existing processing systems can also be extended in optimum manner using TST technology, thus sustainably increasing the quality of the final product and the value added.

Thanks to a far-sighted corporate policy and clear principles, Trennso-Technik sets standards in the continuous development of dry separation processes; for a future which also offers future generations convincing perspectives through the resource-saving handling of raw materials.
Used successfully all over the world. Highly productive plant engineering!

Technology and functionality!

The separating and sorting machines are the centerpiece of each recycling system and represent the core competence of Trennsortechnik.

Our optimised dry separation process separates bulk materials or products pre-reduced to bulk materials with up to 100% purity. Each system is developed in line with the individual requirements of the customer so that each is a masterpiece of functionality and technology in itself. If required, we can supply systems in turn-key design. These also include the dosing and materials handling technology, aspiration technology, electrical and control technology as well as assembly and commissioning of the system. Comprehensive test processes in our own technology centre ensure that our systems meet all requirements.

The continuous use of many systems in three-shift operation is an indication of the high process reliability and quality of our products and services. Whether the required throughput capacity is just a few kilograms or several tonnes per hour is immaterial.
References:

- Australia
- Belgium
- Bulgaria
- China
- Denmark
- Germany
- France
- Great Britain
- India
- Italy
- Japan
- Croatia
- Luxembourg
- Morocco
- Netherlands
- Austria
- Poland
- Russia
- Switzerland
- Slovakia
- Spain
- South Korea
- Czech Republic
- Tunisia
- USA
- ...
We are constantly further developing our separating and sorting machines in order to take account of specific customer requirements and to ensure optimum efficiency, separation purity and longevity.

The core competences here are screening technology, wind sifting technology and density sorting technology. Each process is tailored individually and perfectly to the respective materials.

Only in this way is it possible to guarantee ideal results of up to 100 % sorting purity.

**Machines:**

Density sorting technology

- SIK Screening machine
- QSS Cross-flow sifter

Dosing/materials handling technology

- TTS separating table
- SSM Shaking screen
- Screw conveyors, dosing container
- ZZS Zigzag sifter
- Screw conveyors, dosing container
Obtaining raw materials.
Separating with perfect purity!

Module:

The modules on offer can include all complementing systems in addition to the TTS core components. These include the size-reduction and comminution technology, magnetic and eddy current separation as well as induction and sensor-protected sorting techniques.

If required, all components can be controlled via specially developed control technology and software.
### Food products

<table>
<thead>
<tr>
<th>Medium</th>
<th>Separation</th>
<th>Aim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coffee, cocoa</td>
<td>Foreign bodies such as stones, metal, sand</td>
<td>Quality improvement and refining</td>
</tr>
<tr>
<td>Tea, herbs and spices</td>
<td>Foreign bodies such as stones, metal, sand, leaves, stems</td>
<td>Quality improvement and refining</td>
</tr>
<tr>
<td>Dried fruit and dried vegetables</td>
<td>Foreign bodies and product-own ingredients</td>
<td>Quality improvement and refining</td>
</tr>
</tbody>
</table>

### Bulk materials

<table>
<thead>
<tr>
<th>Medium</th>
<th>Separation</th>
<th>Aim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic granulate and powder such as wood, starch etc.</td>
<td>Size and type, products and foreign bodies</td>
<td>Obtaining of raw materials, refining and grade purity</td>
</tr>
<tr>
<td>Mineral granulate and powder such as ores, rock etc.</td>
<td>Size and type, products and foreign bodies</td>
<td>Obtaining of raw materials, refining and grade purity</td>
</tr>
</tbody>
</table>
Recycling

<table>
<thead>
<tr>
<th>Medium</th>
<th>Separation</th>
<th>Aim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic and industrial refuse, old glass, old metal</td>
<td>Valuable substances, secondary fuels and</td>
<td>Obtaining of raw materials and energy carriers as well as of materials suitable for the refuse tip</td>
</tr>
<tr>
<td>Scrap, shredder-light fraction, shredder-heavy fraction</td>
<td>Metals, synthetics, stones, sand</td>
<td>Obtaining of raw materials and energy carriers as well as of materials suitable for the refuse tip</td>
</tr>
<tr>
<td>Electrical waste, white goods, brown goods</td>
<td>Valuable substances and residual materials</td>
<td>Obtaining of raw materials and energy carriers</td>
</tr>
<tr>
<td>Synthetics processing: windows, pipes, packaging etc.</td>
<td>Grades and foreign bodies</td>
<td>Obtaining of raw materials and energy carriers</td>
</tr>
<tr>
<td>Car and lorry tyres</td>
<td>Minerals and inertias such as stones, sand, glass as well as textiles</td>
<td>Obtaining of pure rubber granulate and rubber flour</td>
</tr>
</tbody>
</table>

Your business area

<table>
<thead>
<tr>
<th>Medium</th>
<th>Separation</th>
<th>Aim</th>
</tr>
</thead>
<tbody>
<tr>
<td>Your products...</td>
<td>Your requirements...</td>
<td>Your definition...</td>
</tr>
</tbody>
</table>
The Trenns-Technik process solution expertise is the basis for the company’s international success. It is the driving force behind the optimised innovations which result from the tasks set us and the trends in processing and recycling technology. Thanks to the seamless transition from each individual step of the process circle to the next, we can guarantee our customers efficiency, transparency and high quality. Our qualified engineers have a particular liking for individual projects as know-how and creativity can lead to tailor-made systems here.

Professionals manage and accompany your project from advising via testing in the technology centre, planning and construction as well as production, delivery and assembly on site, through to the maintenance service. The skills of our team are constantly being improved through continuous further training, meaning that you always have the latest knowledge and state-of-the-art technology at your disposal.

Rely on top-level technical service for optimum separating and sorting results of up to 100% purity.

Know-how and creativity

ADVISING
Each project starts with qualified advising. This enables us to clarify your concrete requirements at an early stage.

EcoCycle

SERVICE
The technology of Trenns-Technik is designed for continuous operation, is simple to operate and easy to maintain. Our service team will be pleased to be of assistance at any time.

COMMISSIONING
We commission the system together with you and supply you with first-class technology.

CONTROL
Trenns-Technik produces electrical control systems that are always tailored precisely to the specific customer requirements.
Process solutions.
Maximum efficiency and security!

TESTING PROCEDURES
At our own technology centre, we test the possible solutions to your requirements under practical conditions.

CONCEPT DEVELOPMENT
We develop a tailor-made separation and sorting concept in line with your requirements.

CONSTRUCTION AND ENGINEERING
We construct and plan your solution which ranges from individual machines to module units and through to complete systems.

ASSEMBLY
Assembly by experienced professionals ensures high quality and functionality.

PRODUCTION
For us, high manufacturing penetration is a prerequisite for achieving the highest standards in terms of quality and functional reliability.
Trennso-Technik has been offering the latest separation and sorting technology, professional advising and planning for individual solutions for over 20 years – in an efficient and cost-economising manner. Processing and recycling are demanding fields of the future. The raw materials obtained as a result can be fed back to production and thus represent an energy-economising alternative to the use of diminishing resources.

Trennso-Technik: Optaining raw materials, increasing quality!