STRATEGICALLY ALIGNED, FUTURE READY.
WE ARE CHANGING THE FACE OF THE ENVIRONMENTAL SOLUTIONS INDUSTRY BY COMBINING YEARS OF INDUSTRY EXPERIENCE WITH PREMIER TECHNOLOGY.

PLEXUS was formed by a team of industry leaders with one massive goal - to bring advanced recycling technologies from around the world together in systems that solve entrenched problems. We provide solutions that combine world-class technologies, unmatched expertise and unrivaled support. Our team works relentlessly to unite global recycling technologies to serve our customers’ needs today and well into the future.

PLEXUS RECYCLING TECHNOLOGIES ISN’T THE ONLY SOLUTION. WE’RE THE BEST SOLUTION.

- **Andritz**: The ultimate industrial muscle to break, shatter and shred
- **Komptech**: Global full-line technology leader in modern waste handling
- **Matthiessen**: World-renowned bag opening and bale breaking solutions
- **Zentrobotics**: The world’s first AI-powered waste sorting system
- **WTT**: The latest mechanical and biological techniques for turnkey waste solutions
**Welcome to the future**

ZenRobotics Recycler is the world’s first robotic waste sorting system. ZenRobotics Recycler reclaims raw materials from waste with industrial robots and intelligent machine learning.

The ZRR is trainable and sorts multiple fractions simultaneously. It’s unique ability to learn new fractions allows the operator to quickly react to changes in the waste stream and to easily create new qualities of recyclables.

By training the system, the operator is in full control of what is sorted. Training can be used to introduce a completely new fraction, improve sorting quality of a current fraction or divide existing fractions into sub-fractions. The ZRR is equipped with an easy-to-use HMI. Operators can control sorted fractions, purity and throughput and react to changes in the waste stream.

The ZenRobotics Reporting Tool gives waste operators access to online analysis of their waste stream and sorting results to control and optimize production.

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**ZenRobotics Brain Software**

- Robots sort waste with Artificial Intelligence (AI)
- Eliminate or Reduce Manual Sorting
- Unit value increases in time
- Hybrid Sorting: Sort positive, negative simultaneously
- Flexible: Sort any type of material

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<table>
<thead>
<tr>
<th>ZenRobot</th>
<th>ZRR1</th>
<th>ZRR2</th>
<th>Semi-Mobile ZRR2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Robot Arms</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Maximum Picking Speed</td>
<td>2000</td>
<td>4000</td>
<td>4000</td>
</tr>
<tr>
<td>Maximum Picking Area</td>
<td>79” x 63“</td>
<td>79” x 63“</td>
<td>79” x 63“</td>
</tr>
<tr>
<td>Maximum Object Weight</td>
<td>44 lbs</td>
<td>44 lbs</td>
<td>44 lbs</td>
</tr>
<tr>
<td>Maximum Object Size</td>
<td>59” x 19“</td>
<td>59” x 19“</td>
<td>59” x 19“</td>
</tr>
<tr>
<td>Length of Unit</td>
<td>20’</td>
<td>31’</td>
<td>46’</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>10kW</td>
<td>14kW</td>
<td>16kW</td>
</tr>
</tbody>
</table>

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The next generation of recycling.

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**Eliminates injuries and overtime. The ZRR works 24/7. That’s 8760 hours per year.**
Universal Cross-Flow Shredder QZ

The QZ utilizes the physical forces of impact energy with the use of a heavy gauge chain, guaranteeing particularly fast and efficient material separation with low wear costs. Floor mounted chains create a hurricane inside the machine resulting in constant material impact within the drum.

APPLICATIONS - QZ
- e-scrap
- refrigerators
- printed circuit boards
- scrap cans
- engine blocks
- slag
- aerosol cans
- biomass
- food waste

- High throughput
- Multiple in-feed materials
- Able to process solid metal parts
- Batch run or constant feed customizing particle size

Universal Granulator UG

Angled fixed hammers rotate at 200 RPMS towards a fixed cutting ledge that is set to .001 mm gap size, creating an efficient and productive material from ½” to 4”. Downtime is minimized due to the easy screen change and quick access to the shaft and cutting ledge.

- Uniform high quality final product
- Precise setting of the cutting gap
- High throughput
- Able to process very solid, non-hardened metal
- Cutting faces can be flipped 4 ways

APPLICATIONS - UG
- tires
- cable scrap
- transformers
- paper
- plastic
- textiles
- tire granulate
- aluminum
- copper
- RDF
Shredding
OF THE MOST DIFFICULT MATERIALS
Rugged design provides powerful pre-shredding • Extremely large feed area • High throughput with general-purpose use • Shredding drums with extremely aggressive cutting tools

Screening
WITH WELL-PROVEN TECHNOLOGY
Variable configuration for perfect adaption to application • Simple speed control at the screen deck to change particle size in seconds • Flexibly tailored solution using drum screen or star screen technology

Separating
USING MULTI-PURPOSE MACHINES
Outstanding windsifting performance using pressure-suction and vibration • Low energy costs due to electrical drive of components • High degree of selectivity with setting of separation limit

APPLICATIONS

www.PlexusRT.com
The Matthiessen Bagsplitter is working around the world in the first phase of many recycling operations. The Bagsplitter is designed to improve the recovery of recyclable materials by opening bags and presenting the contents evenly on a conveyor for screening and optical or manual sorting.

Bags are opened without compressing or shredding the contents in the waste stream. This allows subsequent steps to be accomplished more efficiently and accurately.

Matthiessen also manufactures Bale Breakers and Dosing Drums.

GOT BAGS?  WE’VE GOT THE SOLUTION.

THE BAGSPLITTER: A highly efficient and effective machine for opening bags and removing them from waste streams. With minimal energy consumption and low wear costs, the Matthiessen Bagsplitter can improve productivity as well as product quality. The solution starts here.

APPLICATIONS

- MSW
- Packaged goods
- Bio waste
- Transfer stations
- Balers
- Co mingled recycling
- Single stream recyclers

Matthiessen Bagsplitters are available in 3 different models.

HOW IT WORKS.

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Turnkey Solutions in Mechanical and Biological Treatment

WTT is a reliable, experienced and independent one-stop-shop for turn-key high-tech waste management solutions. Combining solutions in the field of biological and mechanical waste treatment, choosing WTT’s expertise can avoid disturbing interfaces between different technology suppliers. WTT provides a comprehensive range of services using leading technologies and products.

“We are convinced that using the smartest technology for waste treatment can make a positive contribution to the conservation of our environment.”

Mechanical Biological Treatment (MBT):
Recovering high valuable recyclables and producing alternative energy sources like compost, biogas and RDF. WTT has built over 120 projects world-wide.

Sorting Installations:
WTT designs the most efficient mechanical solutions by selecting the most suitable equipment for the benefit of their clients.

Anaerobic Digestion:
WTT designs Dry Anaerobic Digestion installations for the optimal degradation of organic waste streams.

Composting, and Biodrying:
WTT’s biological tunnel process allows the facility to treat organic waste optimally in a short period of time, maximizing processing efficiency.

Odor Reduction Systems:
WTT’s wide experience and practical knowledge of these systems has provided the know-how to guarantee low-level odor emissions in any facility.