



## Automated sorting – welcome to the future!

The ZenRobotics recycler is designed uncommitted and can be fitted into each system. Ideally it is installed like in the described layout. Besides, the software can be updated at all times and therefore represents a future-proof investment.

It consists of industrial standard components and by means of mechanical learning processes it is enabled to differentiate between valuable resources and waste. The emphasis is put on the handling of building and demolition waste and the performance is constantly enhanced.

The recognition of the materials is carried out through the incoming data of its many sensors. Among others, these are cameras for the visible spectral range, 3 D laser scanners, key sensors and near-infrared technology (NIR).

The interaction of the sensor data allows a high-precision analysis of your waste stream.

Unique in this way!

## What would be the amortization rate of the automatic sorting line in your case?

We look forward to analyzing your requirement. Simply contact our field staff by telephone number +49 5405 505-0 and make your personal appointment.

**STOP MANUAL SORTING – NOW!**  
 We proudly present  
 the first robot-based sorting system of the world



ZENROBOTICS

## Revolutionary and powerful!

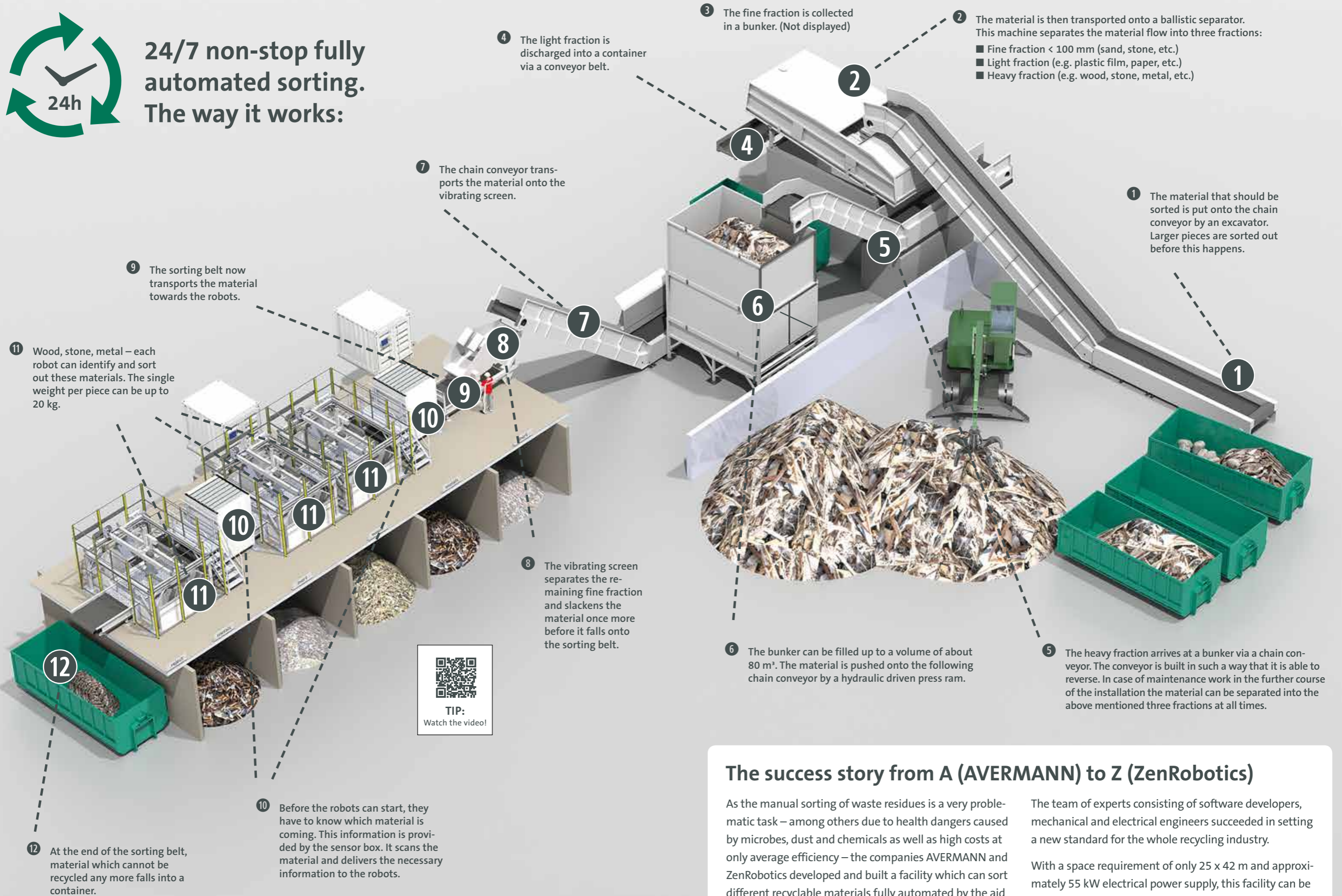
Robots controlled by artificial intelligence  
 Minimum power consumption  
 2 seconds cycle time

### Your advantages:

- ✓ higher revenues through better resource recycling
- ✓ lower sorting costs through automatic sorting
- ✓ low energy consumption at high precision performance



# 24/7 non-stop fully automated sorting. The way it works:



## The success story from A (AVERMANN) to Z (ZenRobotics)

As the manual sorting of waste residues is a very problematic task – among others due to health dangers caused by microbes, dust and chemicals as well as high costs at only average efficiency – the companies AVERMANN and ZenRobotics developed and built a facility which can sort different recyclable materials fully automated by the aid of robots.

The team of experts consisting of software developers, mechanical and electrical engineers succeeded in setting a new standard for the whole recycling industry.

With a space requirement of only 25 x 42 m and approximately 55 kW electrical power supply, this facility can be installed almost everywhere.