



Avermann



Sorting systems

Revolutionary and powerful

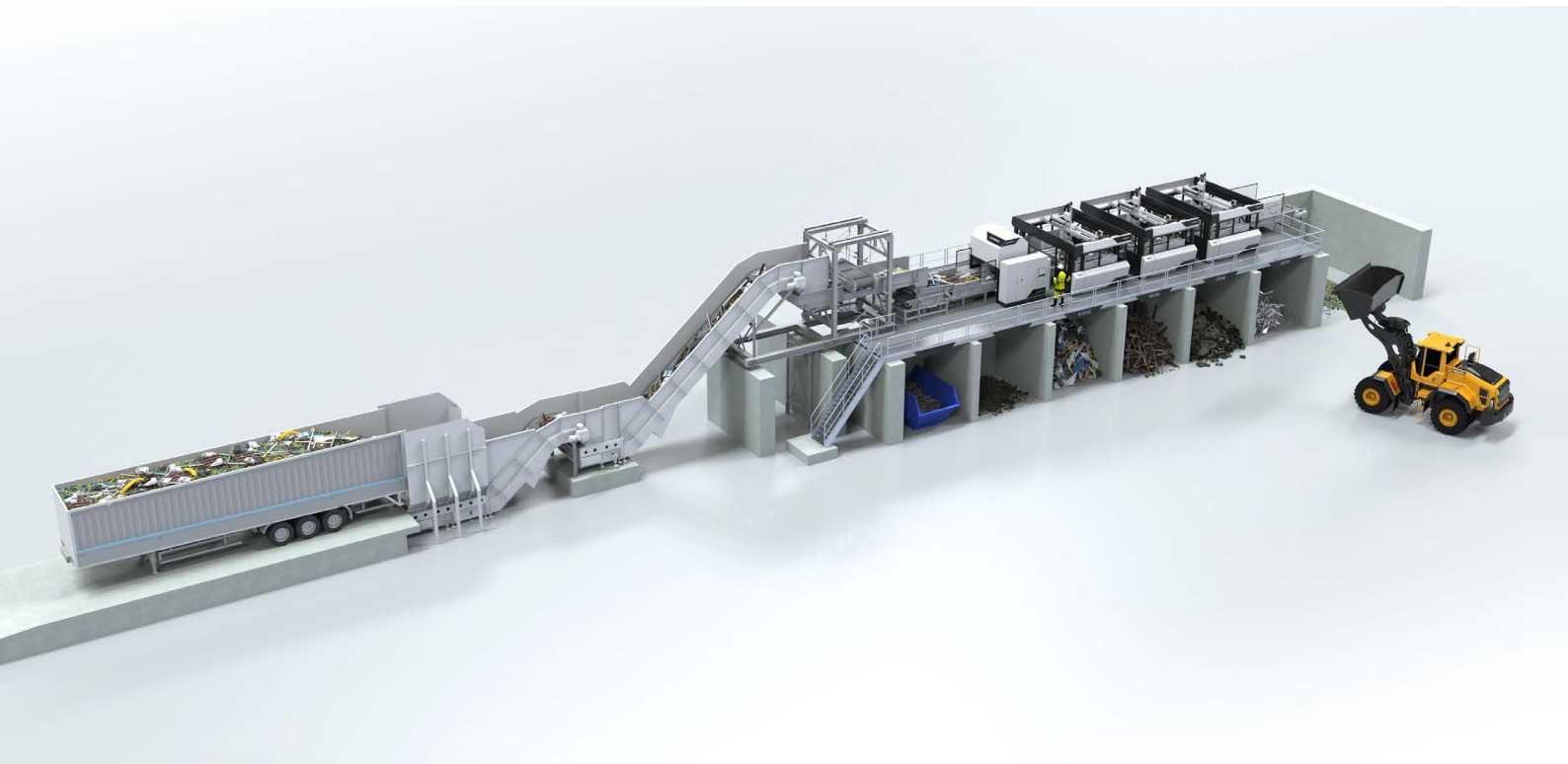
With the customised production of turnkey sorting systems, Avermann offers you complete system solutions from a single source. By separating the waste mixture into sorted fractions, valuable raw materials can be recovered and then reused. As experts in disposal systems, we provide you with comprehensive advice and develop the optimal solution for you.

Your benefits:

- + Higher revenues through better resource recovery
- + Lower sorting costs through automatic sorting
- + Low energy consumption at high precision performance

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24/7 non-stop fully automated sorting. This is how it works:

- 1) An excavator dumps the material that should be sorted onto a walking floor with a volume of 120m². Larger impurities are sorted out before.
- 2) From the walking floor, the material is transferred to a chain conveyor belt to equalise the material flow.
- 3) Afterwards the material is transferred onto another chain conveyor belt. The conveyors can run at different speeds and, in addition, they are controlled via filling level sensors.
- 4) After equalisation of the material flow, the material is transferred onto a sliding belt conveyor with a stainless steel segment.
- 5) Above the sliding belt, a permanent magnetic separator is arranged, which automatically separates the ferrous parts from the material flow.
- 6) Afterwards, the material is transferred to a vibrating screen.
- 7) The vibrating screen separates the remaining fine fractions and loosens the material before it falls onto a sorting belt.
- 8) Now the sorting belt conveys the material towards the robots.
- 9) Before the robots can get started, they need to know which material to expect. This information is provided by the sensor box. It scans the material and delivers the necessary information to the robots.
- 10) Since the robots are equipped with artificial intelligence, they can recognise and sort out almost any recyclables from the material flow. They can also be „trained“ to new materials at any time. The robots can lift single weights up to 30 kg.
- 11) Material that cannot be reused falls into a container at the end of the sorting belt.

Watch now:

