

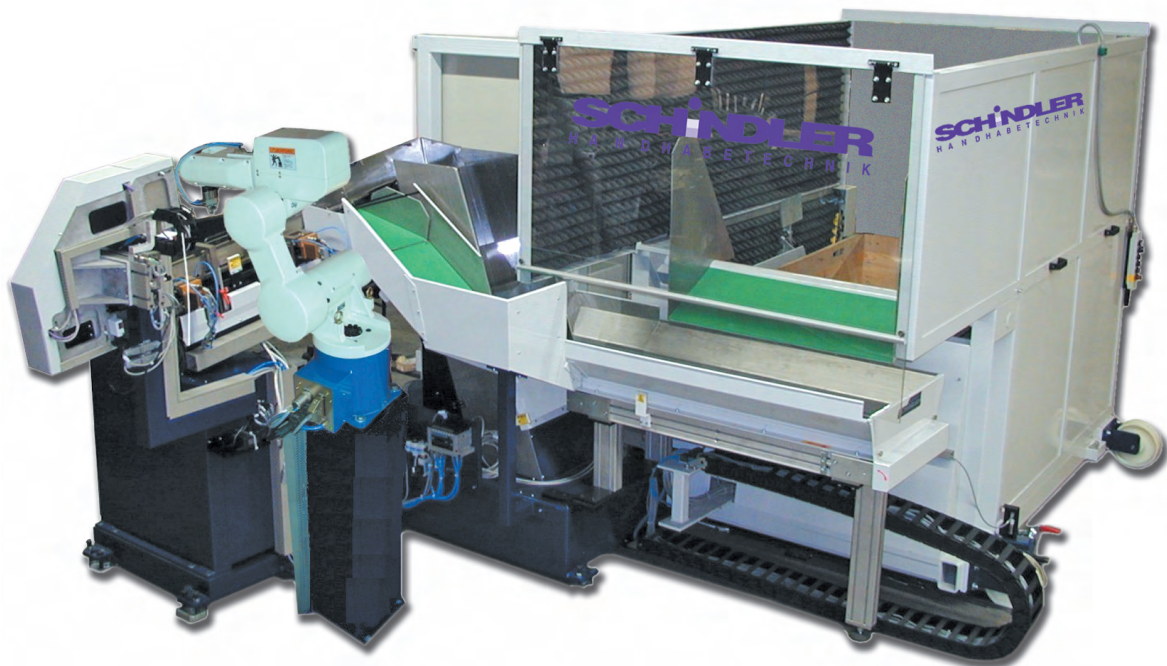
SCHINDLER

HANDHABETECHNIK GmbH

Feeding

Interlinking

Automation



Innovative solutions
from "Schindler"





Our company profile

- independent, flexible company
- approx. 150 qualified employees
- roughly 40 years experience
- References include the automotive industry, electrical and plastics industries, fitting industry

Specially therefore we have developed a step system, in order to convey the parts in the **step conveyor** via one or more steps, distributed to the frequency and amplitude controlled sorting rails, which the parts orientates and presents.

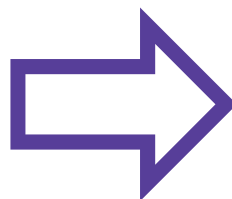
The step conveyor can be designed flexibly and adapted to the required exit height of the sorting parts. Our feed system is especially characterised by the handling of

- ▶ heavy
- ▶ impact-sensitive and
- ▶ noise-intensive parts, as well as
- ▶ high output capacity

From single solutions up to system integration and turnkey systems

Single solutions

- Self-controlled feed systems
Step conveyor
- Raw part loader **PICKLA®**
- flexible robot cells **SCHIMAT®**
- Automated loading/unloading of machines
- Workpiece conveyor systems
- Interlinking systems
- Workpiece handling
- Palletising system
- Custom solutions



System solution

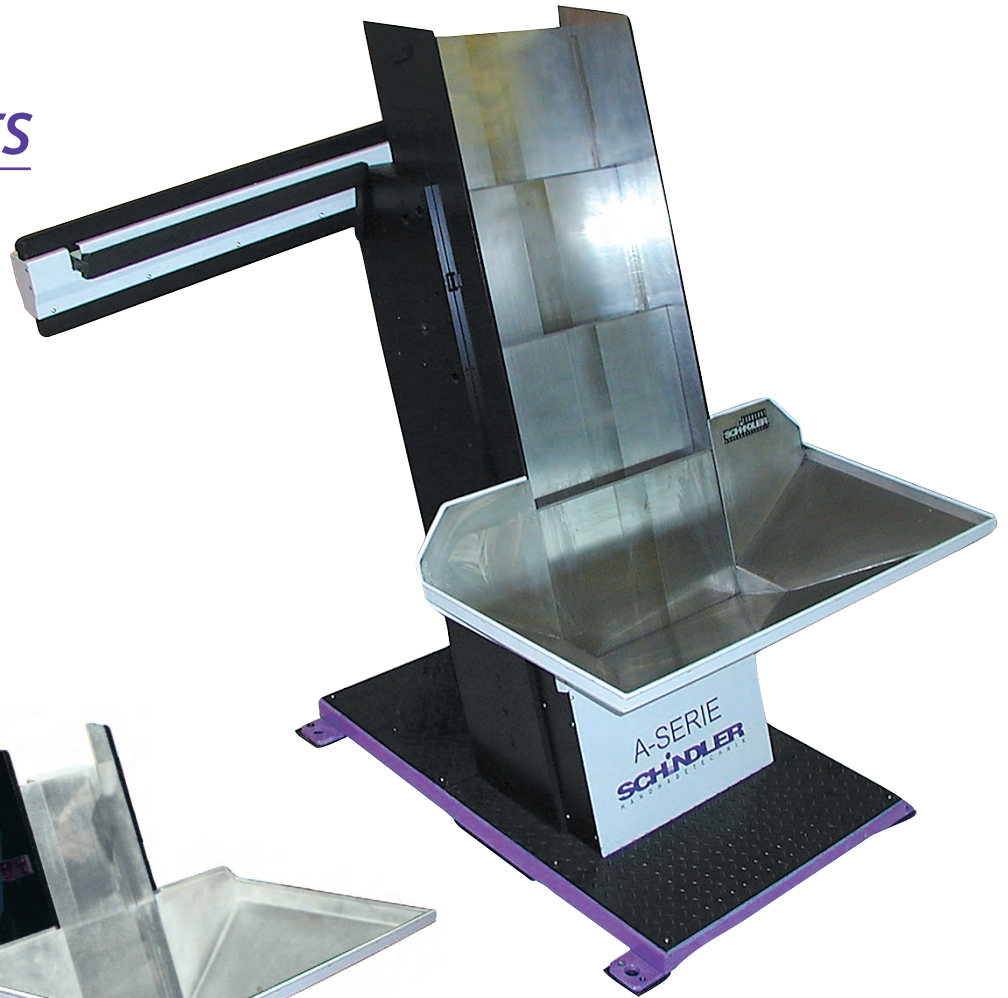
Combination of single solutions, including software and integration of portals, robots, etc.

Example:

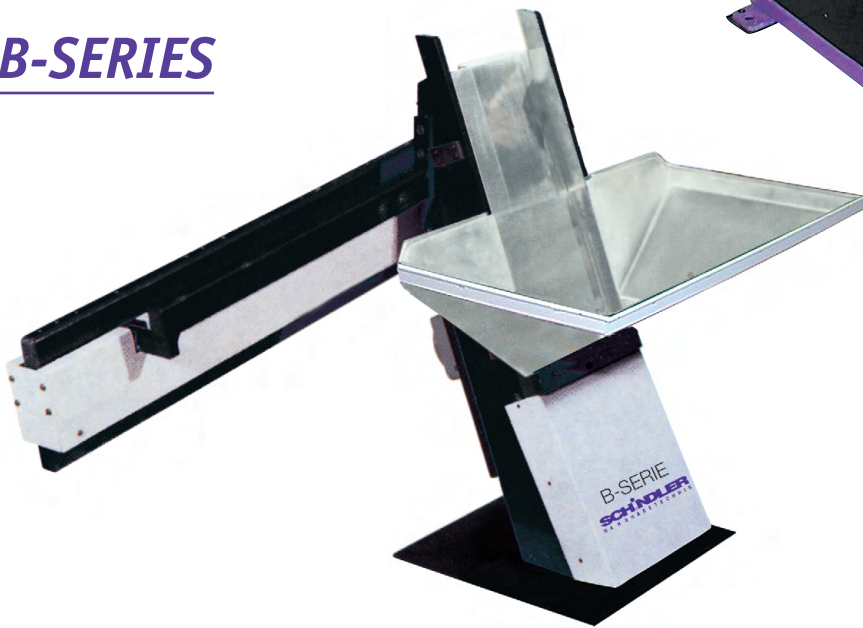
- complete feed systems, incl. Pick & Place
- Crankshaft interlinking
- Brake disc interlinking
- Gear interlinking
- Complete transmission production
- etc.

Step conveyor

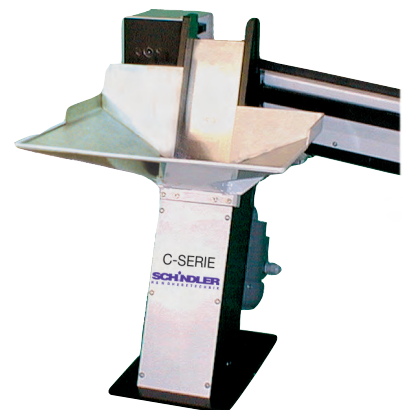
A-SERIES



B-SERIES



C-SERIES



For every part to be sorted!

– whether large or small – the matching step conveyor system. Strong, quiet, part protecting, can be changed by using the quick-change system of sorting rails.



Tipping-Tilting Unit

The tilting-tipping unit is suitable for all commercial palette dimensions. For palette weights:

up to 2000 kg

The tipping-tilting unit is loaded by a manual lift truck or forklift. After the safety door is closed, the contents of the palette will be distributed on the bunker conveyor via a sliding chute.

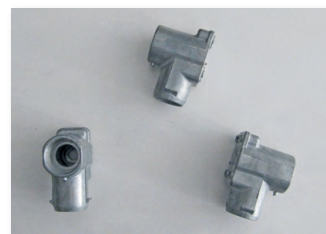


Bunker conveyors

To extend the hopper volume of the "step conveyor", there are bunker conveyors available.

Using the bunker conveyor the sorting parts are distributed in the hopper of the step conveyor.

For frequent type changing we offer a quick emptying with reverse function of the belt.



Patented raw part loading – PICKLA®

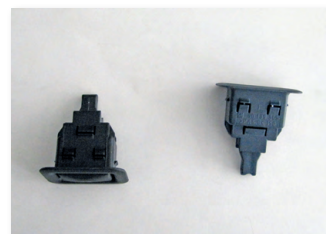
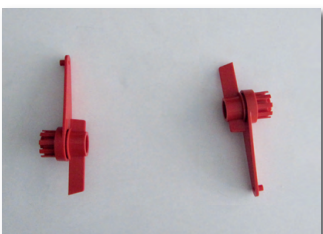
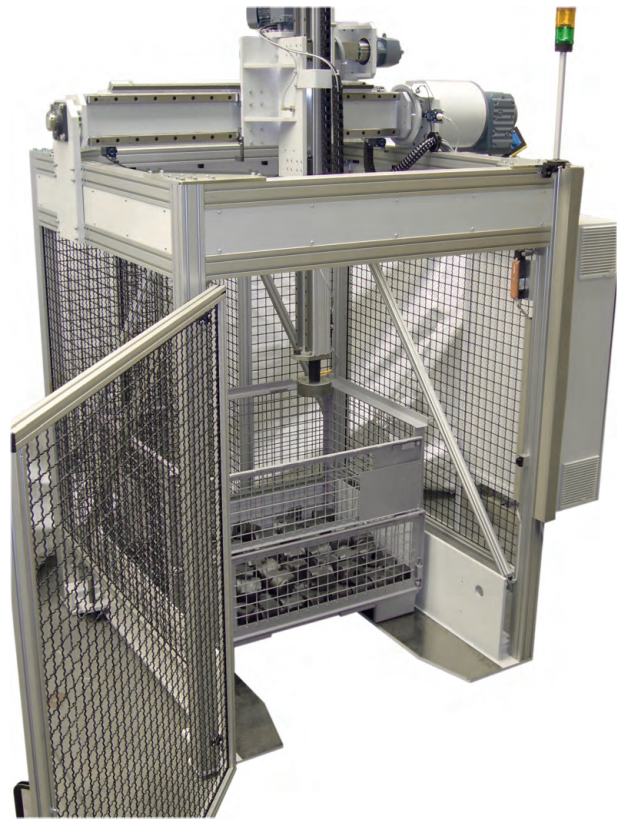
This system was specially developed to take random heavy parts out of a standard container by using an electromagnet and place them on a shelf or a belt for further processing.

The vertical arm with the magnet lowers into the container according to a specified raster and takes out some parts. The x-axis is equipped with a moving carriage, while the y-axis movement is realised by swivelling of the magnet arm.

For Off-loading the magnet arm swivels to 45° and moves over the discharge location for unloading. This has the advantage that the station does not overbuild the discharge location.

As an expansion, this unit can be designed, that 2 containers can be emptied onto one transfer position.

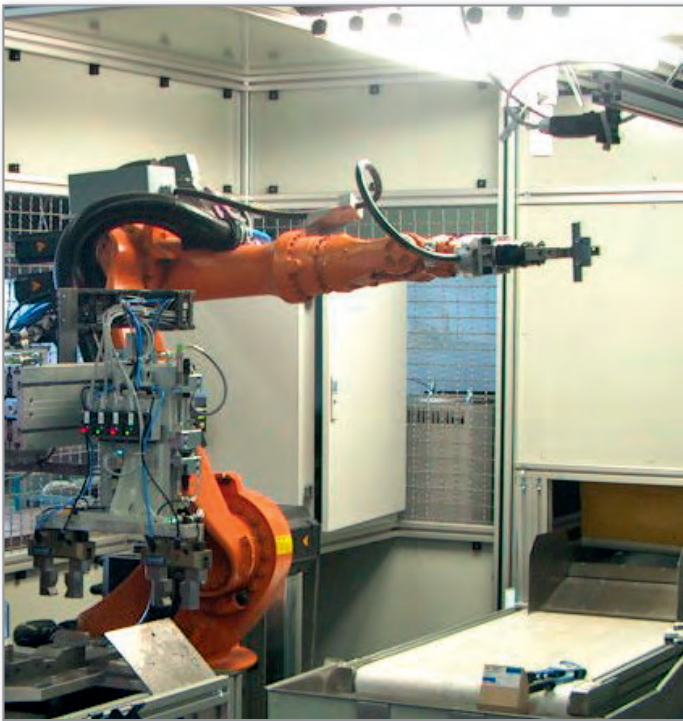
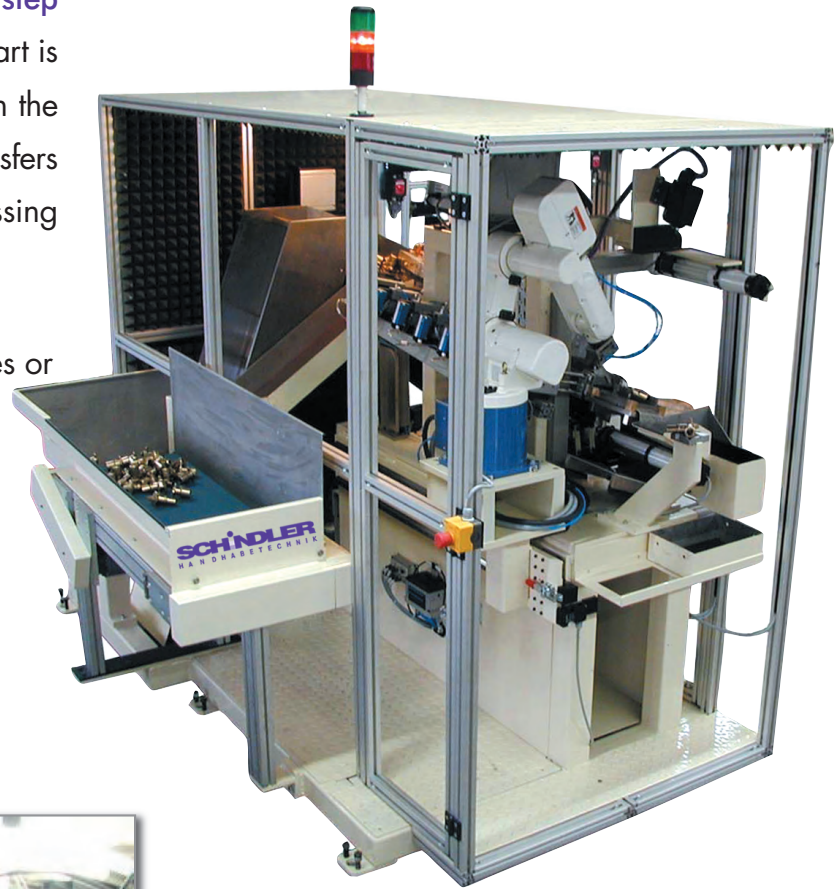
As an extension, subsequent sorting devices and interlinking systems can be used up to the targeted picking and placing by using robots.



Patented flexible robot cells SCHIMAT®

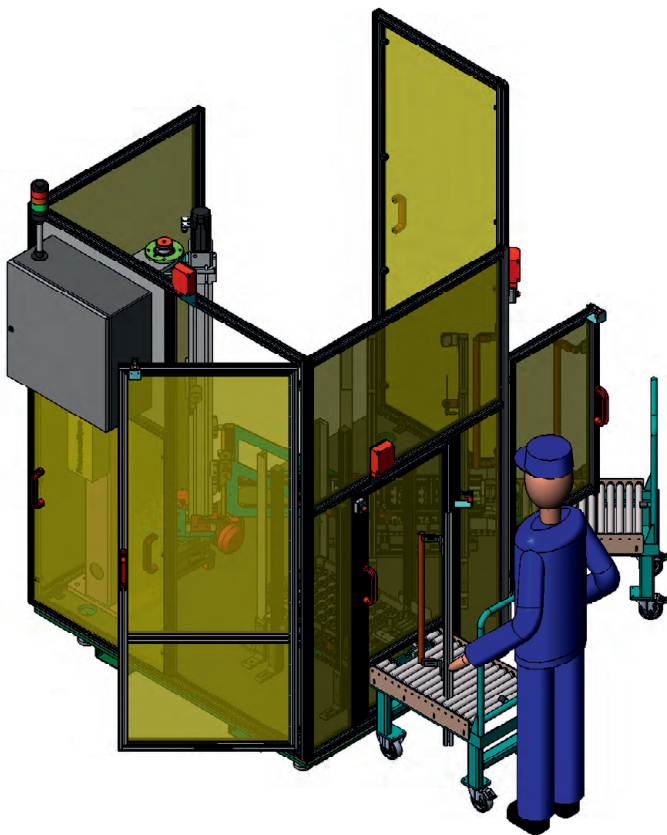
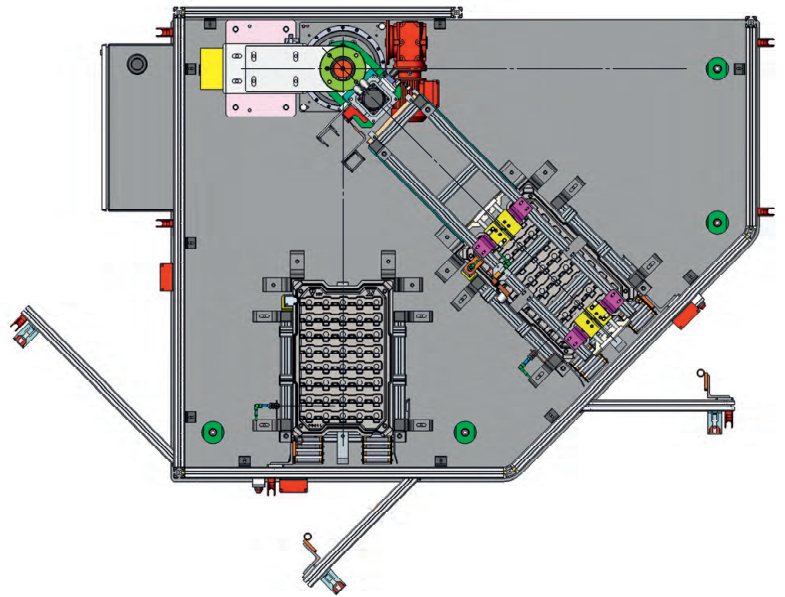
In this case various armature parts are brought via a bunker conveyor and an A-series "step conveyor" on a camera conveyor. The part is detected with the camera and gripped in the correct position by a robot. The robot transfers the part directly in the pending processing machine.

Instead of the armature parts, tong halves or other heavy parts can also be supplied.



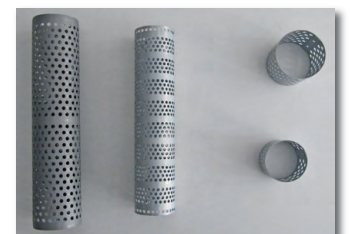
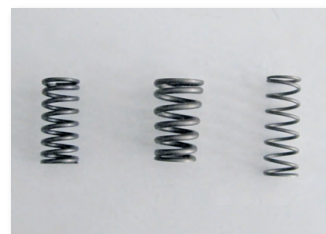
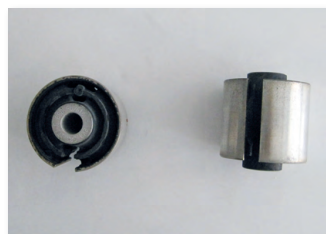
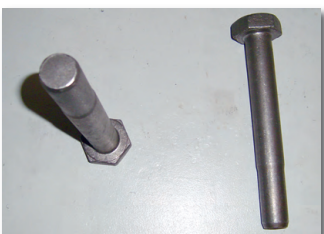
Palletising system

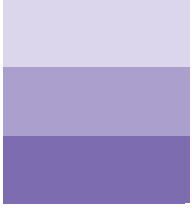
Various types and shapes of palletising systems are included in the product portfolio of Schindler Handhabetechnik GmbH. The most common system used a swivel handling, in which the filled blisters were brought in stacks by using transport carts. Lifted individually with a swivel axis handling and presented for removal by customers processing machine. Empty blisters were again stacked in a removal station and ready for removal.



Of course, there are also other, individual customer solutions possible.

For example, to make two different products, possibly for two processing machines, ready simultaneously in the same palletising system, at the same time, without changeover times. The prerequisite for this is an identical blister size.





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