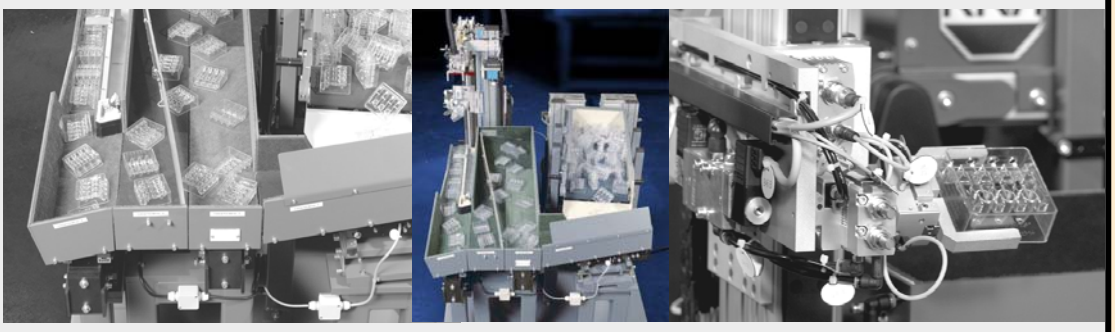
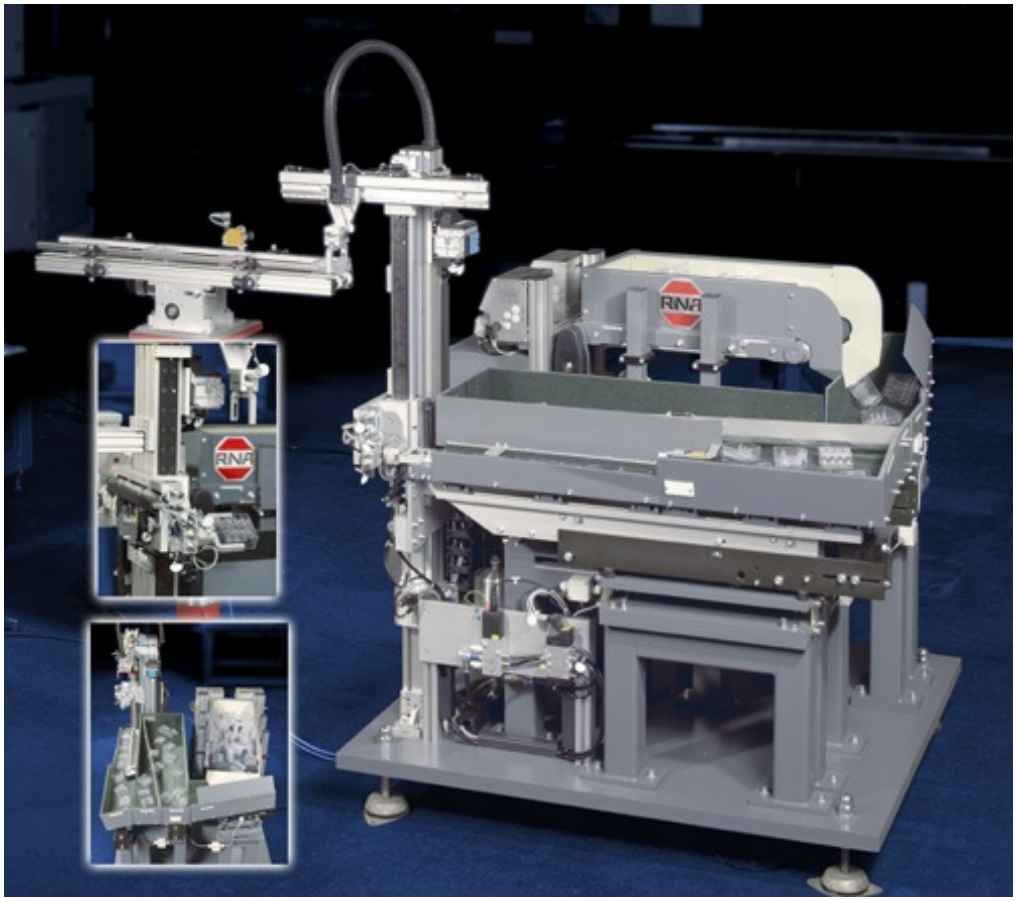


Product Information

Carpet Feeder



The logical integration of a vibrator drive and brush coating in the RNA range

- Gentle handling of components
- Suitable for polished and surface sensitive components
- Flat surface tooling ensures no damage from product recirculation.
- Suitable for large and heavy components
- Low noise levels

Feeding in Slow Gear

The RNA Carpet Feeders are particularly suitable for loading hoppers, orienting and feeding sensitive, heavy or “noisy” components.
The heart of these feeding systems is formed by RNA’s proven and powerful linear feeders. Brush lining materials increase the conveying effect and lead to the directional transport of parts. Feeding systems can be adapted to many applications with these linear modules.

Gentle parts handling
Even sensitive components like green products, parts made of glass or surface refined components can be conveyed thanks to the planar arrangement of the hopper and sorting line without troughs or edges and in combination with the brush coating.

Simple retooling and flexible
Standardised linear sorting units permit simple and quick retooling within families of parts. In combination with position recognition through cameras, this works even more quickly.

Quiet and accessible
The noise level of usual carpet feeders normally lies below 75 dB(A) – without additional sound insulation. And what isn’t surrounded doesn’t disturb accessibility.

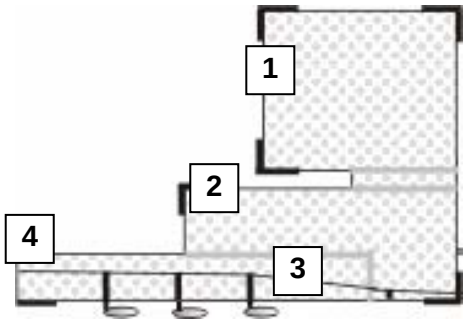
High feeding speed
The conveying capacity is 2 - 10 m/min., depending on the nature of the components, and both linear feeders and conveyor belts are used in the sorting process.

Operational characteristics
The components are randomly filled into the hopper (belt or vibrating hopper); from here they are dosed to the sorting unit of the carpet feeder. The parts are then pre-sorted and continuously transferred to the linear orientation tooling. The number of components in the sorting unit can therefore be considerably reduced. Components that have been rejected in the sorting line are sent back – after a minimum dwelling time – to the sorting unit again via the parts circulation of the carpet feeder. Through a clever choice of the orienting tooling, it is possible to deliberately change the position of the component. It is very simple to integrate camera systems, for instance the Festo Checkbox into the tooling method. The systems are available in right-handed and left-handed handing.

Typical cases of application
Classical fields of application are for example:
- Feeding of centre-less grinding machines
- Manufacture of roller bearings
- Automotive industry and their suppliers

Main criteria of conveyable components
Sizes from 5 to 250 mm edge length and weights up to 3,000 g.
- Roller bearings and components
- Gearwheels and synchro rings
- Drive train components
- Powder metallurgy
- Fixings and Fittings

System components



1. Hopper (belt hopper or vibrating hopper)
2. Carpet feeder with brush lining
3. Sorting line (conveyor belt or linear feeder)
4. Accumulation line

The RNA feed systems comply with the EC Directives and all relevant safety regulations.
Construction, manufacture and documentation are based on a certified procedure according to ISO9000.

Our parent company staff at Rhein-Nadel Automation GmbH in the Aachen will give you best support in all phases of your project – from working out the correct solution for a feeding task, to making an offer, constructing the machines right down to after-sales service!

The presence of RNA in all important markets within Europe offers you a partner who is familiar with the specific local characteristics and not least, who speaks your language.

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