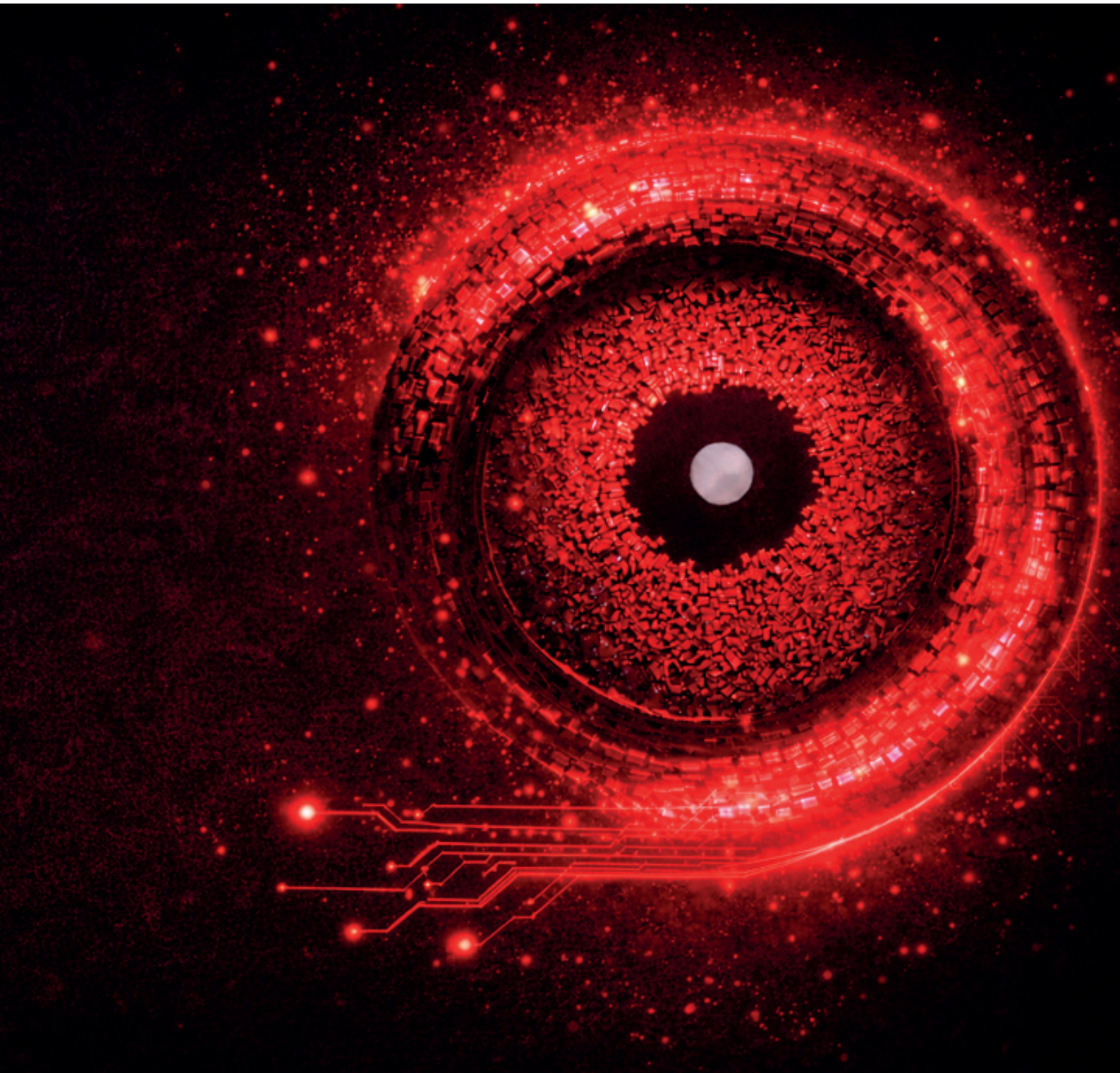




Your technology and market leader
in the field of feeding systems technology.





RNA - at home in every industry

Our product range is tailored to the needs of all industries: from oily environments in the fastener industry to cleanroom conditions in the pharmaceutical industry. RNA feeding systems meet all the specific requirements of each industry and give our customers a decisive competitive advantage with their own systems. Our technical experts and our service team ensure that our systems operate reliably and cost-effectively for many years.

RNA - we handle it

With our feeding systems and components, we give you the competitive advantage and have stood for the highest quality standards for more than 50 years.

RNA Rhein-Nadel Automation GmbH is a long-established family-owned company headquartered in Aachen. As the RNA Group, we employ over 480 people and deliver up to 2,000 feeding systems annually. With ten production sites and our international network of over 20 partners, we are ready to serve you worldwide. For many decades, our name has stood for excellence in technology, quality, and reliability.

RNA - The digital revolution in feeding systems technology



Automotive



Pharma/Medicine



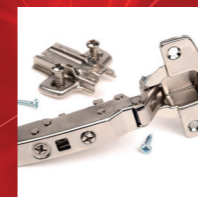
Cosmetics



Food



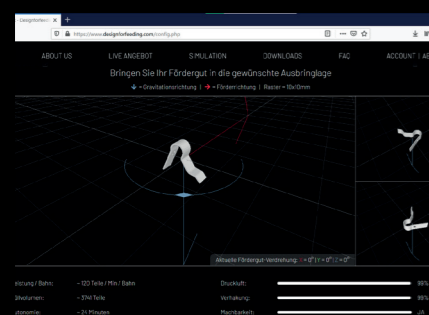
Consumer Goods



Connection Technology



Electrical Industry

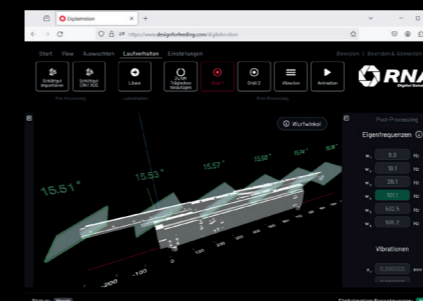


Design for Feeding & SolutionFinder

RNA supports you right from your initial product idea by giving you access to our artificial intelligence (AI). Using geometric deep learning algorithms, we enable you to obtain immediate insights into feasibility, feed rate, and a wealth of other tips and information at a very early stage of product development. www.designforfeeding.com

DigitalFeeder – Digital Twin and Simulation

Using our DigitalFeeder simulation software, we simulate the operation of your system to avoid costly and time-consuming commissioning cycles. Before production begins, the sorting solutions can be tested through simulation, and the optimal geometry for each individual sorting process can be determined, verified, and approved. This makes RNA's feeding systems 100% digital and reproducible.



DigitalMotion – Tuning Drives in the Cloud

With the help of DigitalMotion, you can fully simulate any RNA drive units digitally, allowing you to tune the drives to your sorting rails/tooling or accumulation track even before production begins. This enables the balancing of the drive unit and track segments to be simulated 100% digitally, saving valuable time during commissioning. This gives you confidence in the functionality of the identified solution at an early stage of the project.

Components

We offer high-quality drive, conveying, and control technology, including belt and vibrating hoppers, conveyor belts, and spring untanglers, as well as solutions for the pharmaceutical and food industries.

In addition to standard products, we manufacture customized components such as incline feeders and hopper systems. Fast delivery, excellent service, and certified quality ensure customer satisfaction.



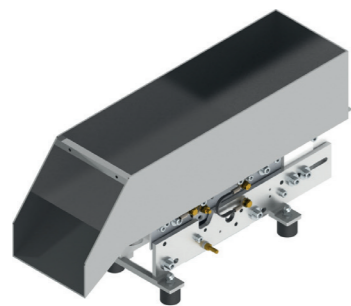
Round drives and bowl feeders

Thanks to their high performance, reliability, and low maintenance requirements, our round drives are considered the industry standard. They deliver consistent conveying performance thanks to the use of high-performance magnets and specially designed leaf springs. We also manufacture according to your specifications.

Linear feeders

RNA linear feeders ensure efficient, linear sorting of parts - even in multi-lane configurations. They perform transport, buffering, and accumulation functions and guarantee a continuous supply of material. They are also used as the drive mechanism for vibration hoppers.

RNA linear feeders stand out for their high conveying capacity, reliability, and operational capability, even over long distances and under demanding conditions.



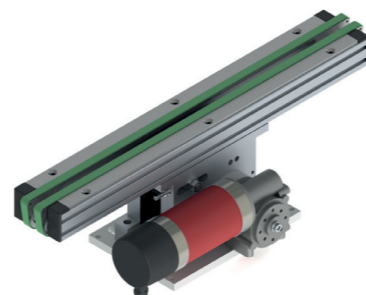
Vibrating hoppers

The RNA vibrating hoppers have a mechanical factory set up to pre-separate the bulk material as it approaches the outlet at increasing speeds. The user can fine-tune the settings at any time.

Mini-band conveyors and conveyors

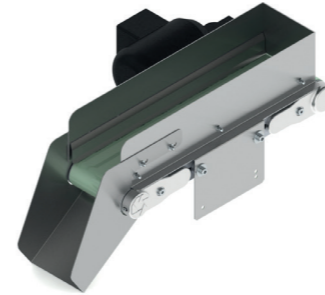
Our conveyor belt product line includes the FP15 E mini-band conveyor, the FP15 D double-mini-band conveyor, and the FP120 series.

Accessories such as knife edges, side guides, and stands round out the standard product line. In addition, we offer custom solutions, including articulated, Z-belt, and toothed belt hoppers, and can develop customized designs upon request, including consultation and a quote.



Incline feeders

RNA STF incline feeders enable ergonomic loading and safe transfer of parts, even with high load capacities.



Step feeders

Our step feeders combine parts storage and gentle parts feeding in a single unit. The design allows for ergonomic loading of workpieces, which are metered via counter-rotating lifting plates and transferred to the subsequent process in a way that protects the parts.



Belt hoppers

Belt hoppers are used to store parts and, when combined with a feeding system, increase the system's autonomy. They are based on the proven RNA FP120 conveyor belt.



Vibration platforms

The FlexCube is a highly flexible feeding system for manufacturing. Combined with machine vision and robots, the patented 3-axis system ensures reliable feeding of even delicate parts. The parts - including entire families of parts - are distributed evenly and can be aligned as needed using textured vibration plates and intelligent vibration patterns.

Control units

RNA offers optimal control units for vibratory drives - ranging from simple phase-angle controllers to high-end microprocessor-based frequency controllers. The devices are cost-effective, user-friendly, and enable the operation of feeding systems without a higher-level controller.



Spring untanglers

The spring untangler separates springs that are tangled together. It is often used in combination with vibrating hoppers or belt hoppers to efficiently feed the springs and prepare them for further processing.



Feeding Systems Technology

RNA - Your one-stop shop for feeding systems technology!

We provide turnkey feeding systems from a single source: based on all standard drive technologies, such as bowl, linear, centrifugal, step, or incline feeders - even in combination with robotics and optical recognition systems. Whether conventional, digital, flexible, or cost-effective - at RNA, you'll receive the best and most innovative solution for your needs. Our CNC-milled and 3D-printed components ensure full reproducibility of your system. With the help of AI and simulation software, we are also able to generate a digital twin of your system. Tailored to your specific needs, we design the optimal solution for you from our modular system - cost-effective, high-performance, and with the best functionality.

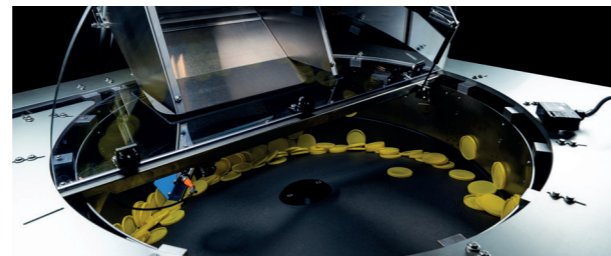


Conventional feeding systems BaseType



BaseType B

RNA bowl feeders are characterized by their low susceptibility to malfunctions. They are reliable and dependable in continuous operation, thereby ensuring high availability. The use of high-performance magnets enables high conveying capacity, independent of load, while maintaining compact dimensions.



BaseType Z

Our BaseType Z centrifugal feeder is the right choice for lightweight plastic parts requiring high feed rates.

Digital feeding systems FlexType



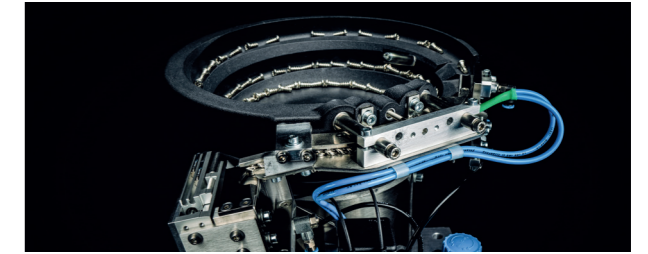
FlexType S, M, L, C

Our flexible, linear high-performance feeding systems in the FlexType series are characterized by high performance and ease of use. They are also suitable for parts with very subtle sorting features (possibly even different parts from the same part family on the same system). The sorting section can be changed in a matter of minutes. The systems are available in various sizes, depending on performance requirements, to suit the part and/or the layout of your assembly line.



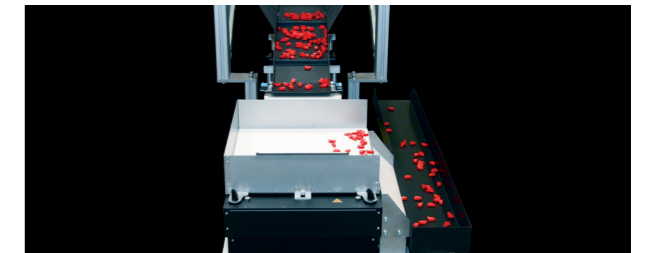
FlexType ST (Nano)

Our step feeders are ideally suited for parts with minimal sorting characteristics. The parts are conveyed upward from the hopper bottom by counter-rotating lifting plates, reaching the desired transfer height without the need for additional conveying equipment. In addition, to their compact design, RNA step feeders are also available in other sizes.



FlexType B (3D and Inox)

The sorting of the FlexType B series of bowl feeders (3D and Inox) are 3D-printed or milled and, like all systems in the FlexType series, can be fully reproduced as digital twins. This allows them to be quickly and flexibly adapted to different parts.



FlexType P

The FlexType P features an integrated, pre-configured, and pre-assembled vibration platform. Specific movements in the x, y, and z directions can be programmed on the vibration platform. This allows parts to be moved in a manner that takes their characteristics into account, ensuring that a large number of parts are prepared for customer pick up.

Cost-efficient feeding systems EcoType



EcoType B

Our cost-effective feeding systems offer an affordable entry point into feeding systems technology. The EcoType series is largely standardized and designed for simple parts.

RNA Group



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