

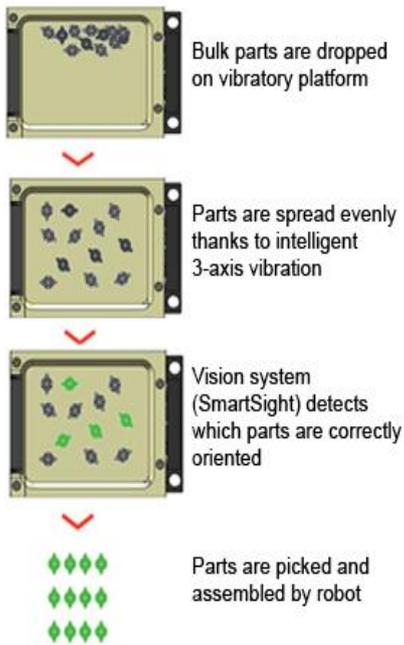
FlexCube 50

Flexible Vibrating Feeder for small components from 3 to 5 mm for flat and cube-like parts, and up to 8 mm for long parts

FlexCube 50 is the ideal feeder when flexibility is demanded in production. Vibrating feeding platforms are typically used in combination with a vision system and a robot, feeding parts of any shape and geometry. Thanks to the patented 3-axis system, even sensitive parts can be fed reliably.

Parts are spread homogeneously on the feeder surface and can even be systematically oriented in many cases by using intelligent vibration patterns in combination with a structured plate. Entire part families can thus be handled with a single feeder, making the system highly future-proof.

Feeder Advantages:



- **Compatible with all parts geometries:** 99% of parts can be fed on our feeders – including complex geometries and delicate materials
- **Minimum production changeover times** enable flexible, future-proof production systems
- **Extremely gentle part handling due to 3-axis vibration technology:** parts can be moved in all directions, including the optimal choice of flipping amplitude for each part. Minimal abrasion as parts do not need to be recirculated. Platform purge possible.
- **Advanced reliability and durability** due to State-of-the-Art Voice Coil Technology; no compressed air needed
- **Avoid backfeeding of vibration into surrounding machines** thanks to isolation of vibratory platform and feeder base
- **Systematic part orientation** can be achieved with intelligently structured platforms (grooves, holes, nests)
- **Easy configuration** with Feeder Control Center Software

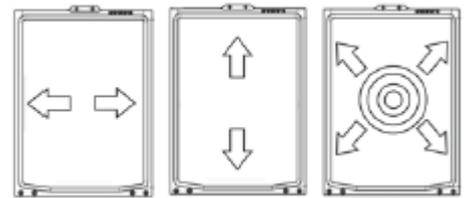
Options:

- **EYE+ Smart Control:** artificial intelligence-based image processing system
- Structured vibration platforms (holes, grooves, various materials)
- Integrated LED backlight (red/ green/ blue/ white/ infrared)
- Connection cables

3-Axis Vibration Technology:

Parts can be moved in all directions thanks to patented 3-axis vibration technology:

- Select the optimal choice of flipping amplitude for each part.
- Combine advanced movements with structured platforms to orient and separate parts.
- Distribute your parts on the surface faster, more gentle and more efficiently than ever.

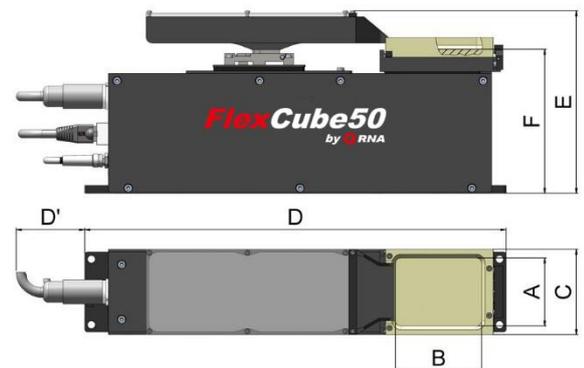


General Features:

- Communication: Ethernet (TCP/IP), Modbus TCP, Optional via Gateway: EtherNet/IP, EtherCAT, PROFINET, CC-Link
- Power supply: 24V, 4A
- Backlight synchronization input
- I/O for synchronization with up to two hoppers
- Easy mechanical fixation with four M5 screws

Dimensions:

· Vibration platform	A:	34 mm	2.1 in
	B:	45 mm	2.6 in
· Footprint	C:	46 mm	2.6 in
	D:	293 mm	12.6 in
	D':	50 mm	2.0 in
· Maximum height E:		140 mm	5.5 in
· Pick height	F:	110 mm	4.4 in
· Typical part size		<0,1-5 mm	0.004-0.2 in



You can obtain further technical information on +49 (0) 241/5109-261.



RNA
We handle it.

Rhein-Nadel Automation GmbH
Reichsweg 19-23 · D-52068 Aachen
Telefon: +49 (0)241 / 5109-0 · Fax: +49 (0)241 / 5109-219
Email: vertrieb@RNA.de · www.RNA.de