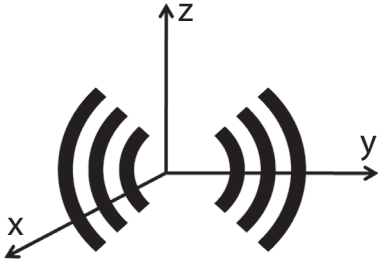
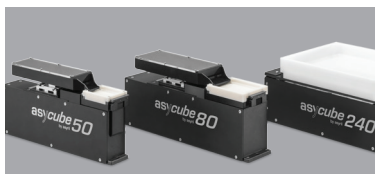
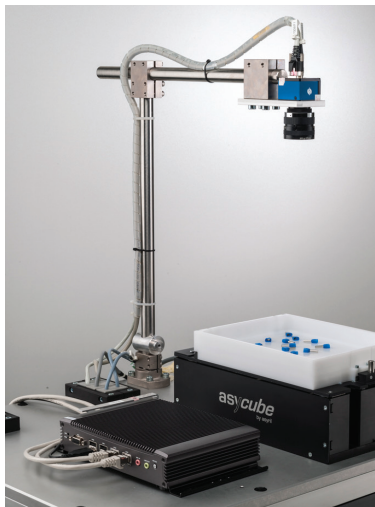
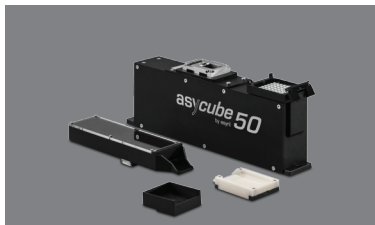


# Asycube 50

## Flexible Vibrating Feeder for parts from 0.1 to 5 mm



**3-Axis Vibration Technology**  
Innovation by asyrii



### Feeder Advantages

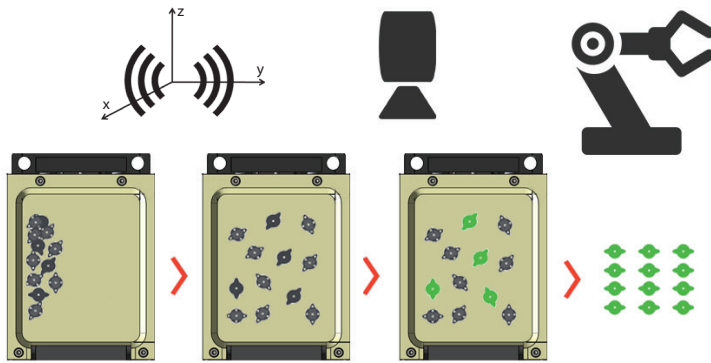
- ▶ **Compatible with all part geometries** : 99% of parts can be fed on our feeders - including complex geometries and delicate materials
- ▶ **Extremely gentle part handling due to Asyrii's innovative 3-axis vibration technology** : parts can be moved in all directions, including the optimal choice 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
- ▶ **Avoid backfeeding of vibration into surrounding machines** thanks to isolation of vibratory platform and feeder base
- ▶ **Precise part detection** thanks to integrated, adjustable backlight / optional SmartSight visual part detection system
- ▶ **Systematic part orientation** can be achieved with intelligently structured platforms (grooves, holes, nests, various materials)
- ▶ **Minimum production changeover times** enable flexible, future-proof production systems
- ▶ **Easy configuration** with Asyrii's Feeder Control Center Software

# Asycube 50

## Flexible Vibrating Feeder for parts from 0.1 to 5 mm

### How it works

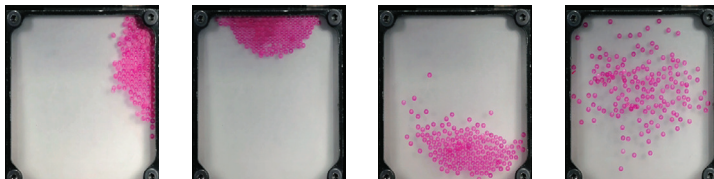
1. Homogeneous parts separation and orientation using Asyri's innovative 3-Axis Vibration Technology
2. Detection of correctly oriented parts by vision system (e.g. Asyri SmartSight)
3. Part pick from platform and assembly by robot



- ▶ 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.

### Asyri's innovative 3-Axis Vibration Technology

- ▶ Asyri's unique and patented 3-axis vibration technology allows moving parts freely on a platform in different directions.



- ▶ By selecting the right parameters such as amplitude, frequency of vibration, phase shift and signal form, the feeder can be tuned very precisely for an optimal motion of each part.
- ▶ Systematic part orientation can be achieved with intelligently structured platforms (grooves, holes, nests).

#### ADVANTAGES

- ▶ Extremely gentle part handling
- ▶ Perfect control motion of parts
- ▶ Minimal abrasion of parts
- ▶ Reduced cycle time



### About Asyri

- ▶ Asyri develops, produces and markets high performance flexible feeding systems for parts and components from <0.1 up to 40 mm in size. Our innovative 3-axis vibration technology can handle bulk parts of any geometry and allows for extremely gentle part feeding.
- ▶ Asyri's key competences and extensive know-how encompass all three sub-domains of modern part feeding systems: vibration technology, industrial vision and precision robotics. This unique focus combined with our many years of experience enable us to deliver superior, innovative flexible feeding systems for today's and tomorrow automation challenges.

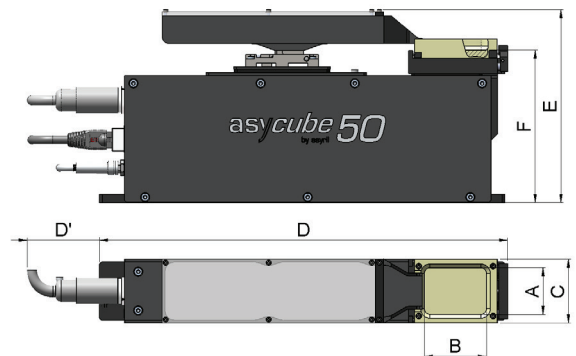
### Specifications

#### GENERAL INFORMATION

Communication	Ethernet (TCP IP)
Power supply	24 V / 4 A
Backlight synchronization input	
Libraries / Software plugins	FANUC  DENSO STÄUBLI

#### DIMENSIONS

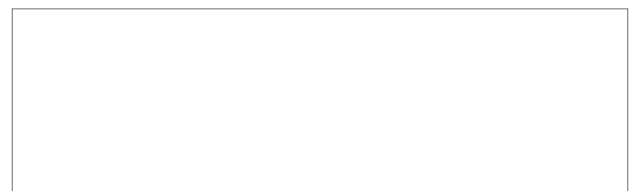
Description	Reference	Dimensions	
		[mm]	[~inches]
Typical part size		0.1 - 5	~ 0.004 - 0.2
Vibration platform	A	34	~ 2.1
	B	45	~ 2.6
Footprint	C	46	~ 2.6
	D	293	~ 12.6
	D'	50	~ 2.0
Maximum height	E	140	~ 5.5
Pick height	F	110	~ 4.4



#### OPTIONS

Visual part detection system	SmartSight
Integrated LED backlight	red / green / blue / white / infrared
Vibration plate	flat / holes / grooves / nests / various materials
Purge platform	
Calibration plate	
Connection cables	power / communication / backlight
Various hopper size	
Custom platform material	on demand (e.g. medical)

### Contact



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