

Asycube Flexible Part Feeder

By Asyrl SA



The Asycube is a 3-Axis Vibration Robotic Parts Feeder.

Asyrl's flexible feeders offer high performance part feeding, pre-orientation and optimal surface distribution of bulk parts and components.

Four different Asycube models are available to feed parts of any shapes, materials and sizes from <1 up to 150mm.

Asycubes are used when parts are delivered in bulk and must be presented one by one to the robot. Typical applications are: Pick&Place, machine tending, assembly and palletizing.

Features and Benefits

- + Compatible with all part geometries: 99% of parts can be fed on the Asycube (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.
- + Advanced reliability and durability due to State-of-the-Art Voice Coil Technology; no compressed air
- + Systematic part orientation can be achieved with intelligently structured platforms (grooves, holes, nests)
- + Easy configuration and simple system integration thanks to the URCaps provided with the Asycube

How does it work?

- + The traditional way to feed parts in automation machines is to use vibrating bowls.
- + Unfortunately, they do not easily meet the new requirements for flexibility and easy integration with collaborative robots.
- + The Asycube separate and orient parts on a surface by intelligent vibration.
- + A vision system is then used to locate the parts and give the coordinates to the robot for picking.

Asyrl SA

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Technical details

Includes a URCap plugin:

yes

Compatibility:

UR3, UR5, UR10

CB3.0, CB3.1

Software version required:

Asycube firmware 4.0.2 or greater

Dependency:

24V power supply (see datasheet for details)

For configuration:

Computer with windows 7 (or 8) 64bits

AsyriL HMI v2.6.2 or greater

Certifications and standards:

Machine Directive 2006/42/EC

Dimensions:

+ Asycube 50

Ideal flexible feeder for parts from 0.1 to 5 mm

Feeder size (L x W x H): 293 x 46 x 138 mm

+ Asycube 80

Ideal flexible feeder for parts from 3 to 10 mm

Feeder size (L x W x H): 320 x 61 x 138 mm

+ Asycube 240

Ideal flexible feeder for parts from 5 to 40 mm

Feeder size (L x W x H): 300 x 171 x 132 mm

+ Asycube 530

Ideal flexible feeder for parts from 30 to 150 mm

Feeder size (L x W x H) : 300 x 171 x 132 mm

What's in the box:

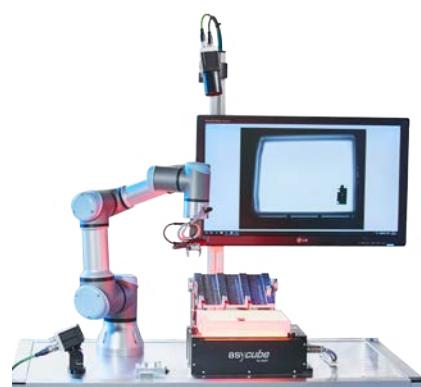
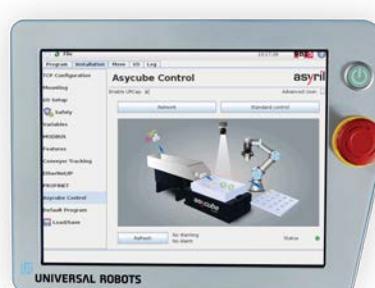
Asycube flexible feeding platform with specific backlight color depending on customer's needs

License type:

One-time purchase

Suited for the following applications

- + PICK AND PLACE
- + ASSEMBLY
- + PACKAGING AND PALLETIZING
- + MACHINE TENDING
- + CNC



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