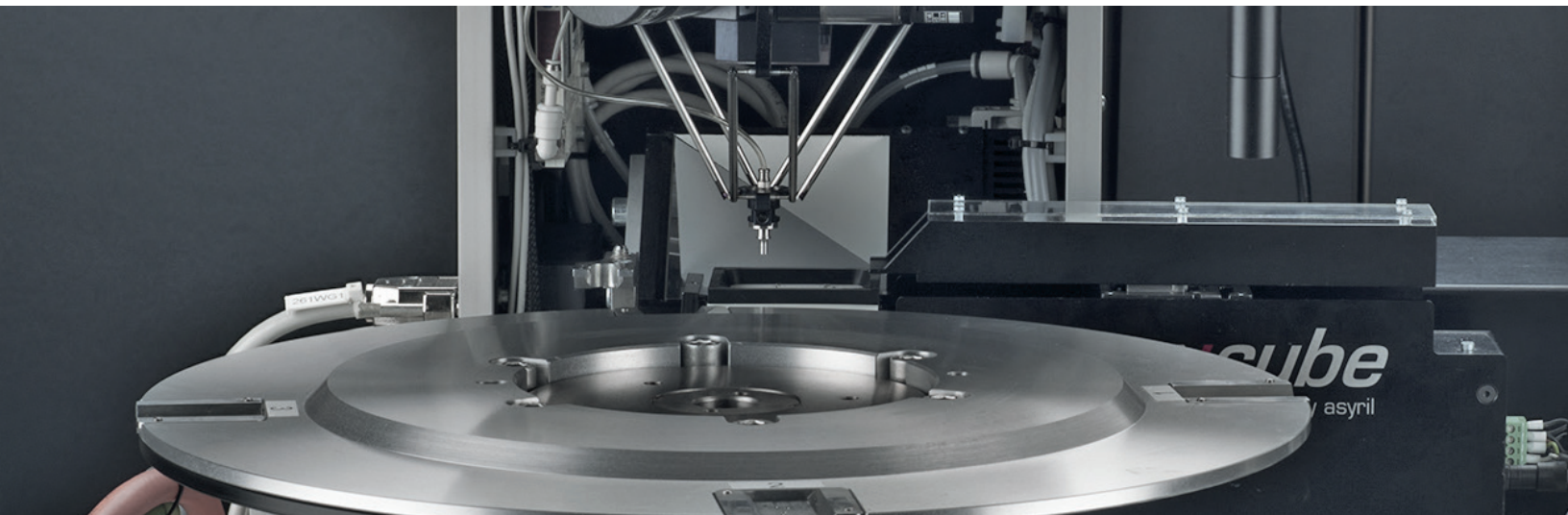


**ASYRIL** develops advanced 3-axis automated part feeder systems that are more reliable, flexible and productive compared to traditional 1- or 2-axis bowl feeder systems.

**asyril** Experts in Flexible Feeding Systems



ASYRIL SA | Z.I. du Vivier 22 | 1690 Villaz-St-Pierre | Switzerland

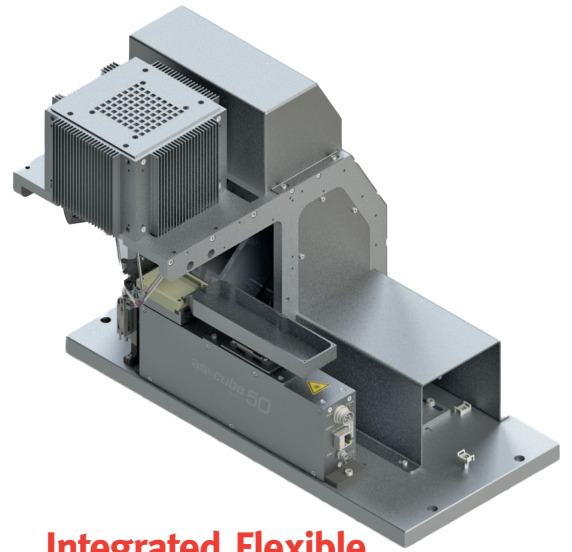
Tel: +41 26 653 71 90 | Email: [info@asyril.com](mailto:info@asyril.com) | [www.asyril.com](http://www.asyril.com)



## The Challenge:

### Make a modern, flexible part feeder

Components arrive in bulk carriers for assembly, but these parts need to be sorted, checked and oriented before the next assembly step, especially for robotic assembly, inspection and handling applications. While the sorting process can be relatively easy for large parts with simple geometric shapes, parts with complex geometries, sensitive materials and surfaces, and microscopic parts of a few millimeters or less are difficult to impossible to sort using traditional 1-axis bowl feeders. Furthermore, flexible manufacturing and component miniaturization mean that 1-axis bowl feeders with their high development costs and long lead times are no longer cost-effective or future-proof for many modern assembly lines.



### Integrated Flexible Feeding Modules



### Vibrating Asycube Feeding Platforms

## The ASYRIL Advantage:

### Intelligent 3-axis part feeder solutions

ASYRIL introduced its first voice-coil-actuated 3-axis robotic part feeder, the Asycube 50, in 2009. The Asycube line has quickly become the leading choice for robotic and flexible production-line feeder solutions, thanks to:

- plug-and-play operation
- time to market measured in hours, not weeks
- high throughput for complex and delicate parts alike
- software versus mechanical tuning
- compatibility with 99% of all part geometries under 150 mm

When coupled with ASYRIL's SmartSight machine vision system and high-speed, ultra-precision delta robot options, Asycube is the fastest, most versatile and reliable solution for handling, sortation and palletizing of small electronic, precision, medical and similarly fragile or complex part geometries.

# ASYRIL Key Advantages

- Specialists in advanced feeder solutions for mini-, micro-, robotic-assembly and palletizing applications in the electronics, semiconductor, automotive, dental and medical device industries and related sectors.
- Unique 3-axis programmable feeder solutions mean that time to market is measured in hours, not weeks or months as with mechanical systems.
- Known for compact, reliable, flexible & cost-effective feeder systems that easily integrate with machine vision and robot systems for the most advanced, intelligent feeding solutions on the market.



**PocketDelta**  
**Delta Robot**

# Asycube Key Advantages

- Product is compatible with 99% of small-part geometries thanks to 3-axis actuation and programmable tuning versus bowl tuning using mechanical selectors.
- ASYRIL's Feeder Control Software means designers can tune feeder performance in minutes or hours instead of weeks or months as with mechanical designs.
- Multi-axis actuation of flat platform through software programming reduces production changeover to a few clicks, future-proofing flexible production systems.
- Unique 3-axis actuation orients parts faster and requires less force than traditional feeders, resulting in less wear on parts.

- State-of-the-art Voice Coil Technology is more reliable and productive than compressed-air and electromagnetic-actuation vibrating bowl feeders.
- Separate, isolated platform and feeder base eliminate backfeeding of vibration into surrounding machines.
- Feed the smallest parts ever — smaller than 0.1 mm thanks to integrated, adjustable backlight and optional SmartSight machine vision part detection system.
- Optimized, interchangeable vibrating plates means Asycube can effectively orient as well as sort parts using grooves, holes, nests, pockets, etc.
- Very compact platform sizes allow minimized machine footprint.



**SmartSight**  
**Visual Part**  
**Detection Systems**

# Coming Soon! **Asycube 530**

ASYRIL will soon release the Asycube 530, extending the part size range to up to 150 mm (6 inches). For more information, visit [www.asyri.com](http://www.asyri.com).



# ASYRIL Company Profile

ASYRIL offers advanced 3-axis flexible feeding systems for parts and components from <math><0.1\text{ mm}</math> up to 150 mm with a particular focus on robot feeding solutions that offer several advantages over traditional 1- or 2-axis feeder systems.

ASYRIL advantages include easier set-up, faster time to market, more reliability, less engineering time and cost, better sorting and 99% part compatibility. Our innovative, patented products can handle bulk parts of any material and geometry and allow for extremely gentle part feeding. When coupled with ASYRIL or third-party machine vision systems and industrial robots, ASYRIL's flexible feeding solutions become a key link in the machine-to-machine communication, flexible and small-batch-capable production system that is the hallmark of Industry 4.0.

ASYRIL's flexible feeding solutions can be found in hundreds of multinationals across the globe in industries such as electronics, automotive, medical and dental, jewelry and luxury, and other precision-engineered product industries.

ASYRIL is part of the CPA Group, a technology holding company for high-tech firms with a comprehensive product portfolio for industrial production and automation systems.

ASYRIL sells its products and services across North America primarily through independent distributors. Find one near you at

[www.asyрил.com/distributors](http://www.asyрил.com/distributors)

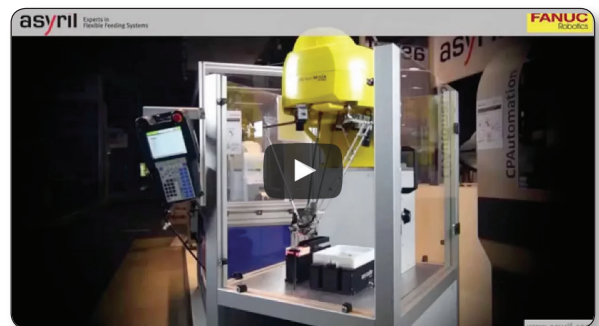
*Company headquarters in Switzerland*



## Want to watch what makes ASYRIL's 3-axis feeder systems the best on the market?

Watch how Asycube feeders are helping Swiss watchmakers feed precision gear assemblies, and much more, on our application page:

[www.asyрил.com/applications](http://www.asyрил.com/applications).



# asyril

Experts in  
Flexible Feeding Systems

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