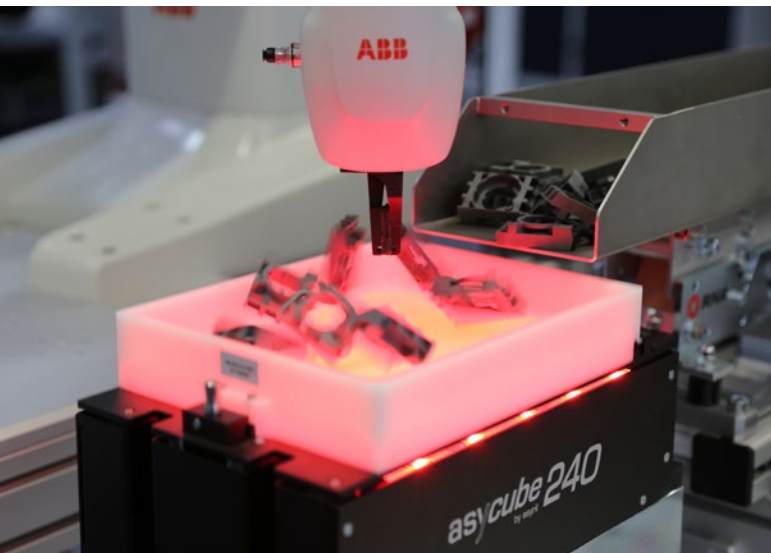**—**
ROBOTICS

Function package Asycube 240
Feeding technology easily integrated

With the function package Asycube 240, ABB offers an interface to the feeding technology of the manufacturer Asyril. The functional package consists of a preconfigured user interface and hardware components that combine ABB robots and feeding technology into an unified system.

The advantages of the function package at a glance:
- Flexible feeding solution for small parts
- Optimized separation of the bulk material
- Especially suitable for frequently changing part geometries/ product variants
- Reduction of the planning effort for development and system setup
- Simplification of the programming
- Reduction of the commissioning time

Hardware Components
- Asycube 240 with red backlight and flat vibration plate
- Power supply 24V and Ethernet switch in one housing
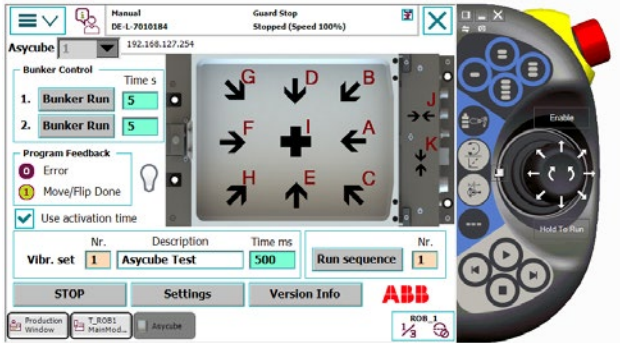- Cable packet

Hardware Options
- Mass plate and vibration damper as a massive mounting plate for the Asycube system and for decoupling the vibrations from the substructure
- Hopper (available in 2 sizes) with a hopper control system

RobotWare Software Components
- Prepared interface for up to ten Asycube 240 systems with hopper
- Graphical user interface on the FlexPendant for configuration and testing
- Special RAPID instructions to control the feed system and hopper with the help of a robot program
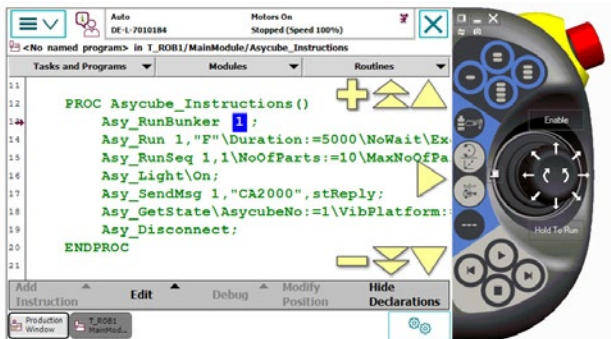
Graphical user interface

The graphical user interface of the FlexPendant offers the possibility to perform tests directly on the Asycube 240. In this case, a configuration of individual parameters (program number, duty cycle, intensity, etc.) is possible.

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FlexPendant User Interface

Control via RAPID commands

The interface defines RAPID commands to control the Asycube 240, so that they can be called in RobotStudio as well as on the FlexPendant. An activatable debugger function also allows to analyze the communication between the robot controller and Asycube.

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RAPID instructions on the FlexPendant

Hardware Options

Ground plate and vibration damper
The option "Mass plate and vibration damper" allows the mounting on the necessary solid substructure and absorbs the vibrations from the underlying construction.
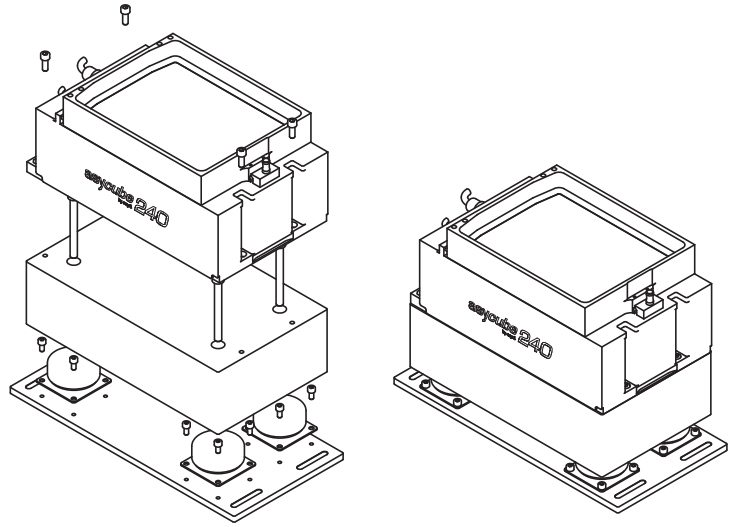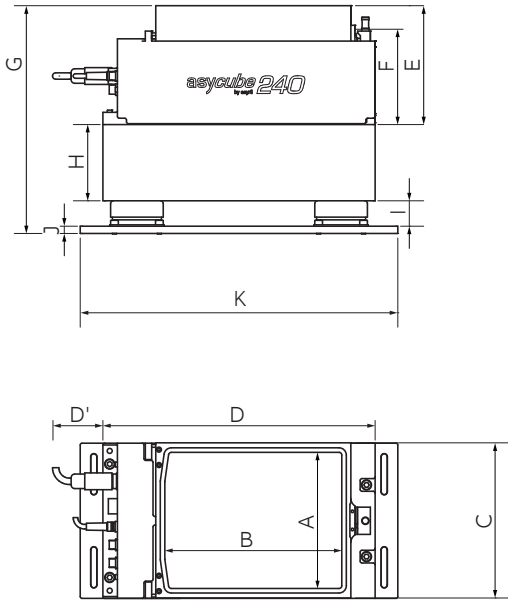

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Vibration damping system

Hopper parts
In order to ensure sufficient autonomy time of the robot cell in production, three sizes of the part hoppers are available. Depending on the part geometry and volume, a suitable size can be selected.

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The part hopper is available in different sizes (image shows 2 L version)
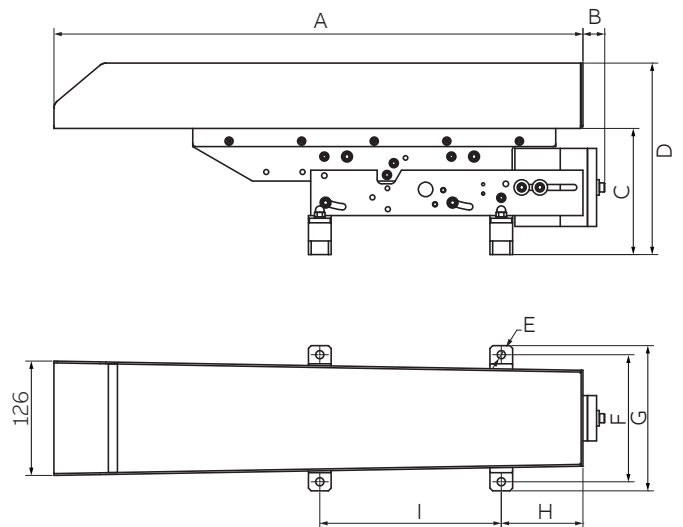
Data

Asycube 240 with mass plate and vibration damper

Hopper parts

Description	Reference	Dimension
Typical part size		5–40 mm
Vibration plate	A	150 mm
	B	195 mm
Footprint	C	171 mm
	D	300 mm
	D'	55 mm
Max. height	E	131 mm
Gripping height	F	105 mm
Height of the entire system	G	251 mm
Mass plate	H	84 mm
Vibration damper	I	28 mm
Mounting plate	J	8 mm
	K	350 mm

Reference	2 Liters	3 Liters
A	453 mm	583 mm
B	24 mm	24 mm
C	139 mm	139 mm
D	211 mm	211 mm
E	⌀9 (4×)	⌀9 (4×)
F	140 mm	140 mm
G	160 mm	160 mm
H	90 mm	90 mm
I	200 mm	200 mm

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