

## **EXCEED YOUR VISION** THE INTELLIFLEX $^{\scriptscriptstyle{\text{M}}}$ FEEDING SYSTEM X **EPSON EPSON EPSON**

### Introducing the smarter parts singulation solution.

Powered by Epson® robots, IntelliFlex Software and Vision Guide, the IntelliFlex

Feeding System offers a smart alternative to part feeders available in the market today. This revolutionary system eliminates costly, time-consuming retooling and allows manufacturers to work with a wide variety of parts without purchasing new equipment. Integrated with Epson RC+® Development Software, the IntelliFlex Feeding System offers easy setup and configuration from one environment. Its point-and-click interface helps reduce the typical development time required for advanced applications. Smart auto-tuning automatically adjusts the IntelliFlex Feeding System for new parts, giving you a flexible, cost-efficient, future-proof parts singulation solution.



Integrated Flexible Feeding Solution



#### Parts feeding made simple.

#### ${\bf High-performance\ parts-feeding\ solution\ -}$

powered by Epson robots, IntelliFlex Software, and Vision Guide

**Simple setup and configuration** — fully integrated with Epson RC+ Development Software

**Point-and-click interface** — helps reduce the typical development time required for advanced applications

**Flexible parts handling** — supports parts from 5 to 40 mm in size

**Quick parts changeover** — feeder offers easy setup to accommodate different parts for reduced total cost of ownership

**Compatible with a wide range of parts** — supports simple to complex parts, as well as delicate materials

**Smart auto-tuning** — automatically adjusts the feeder parameters for new parts setup

#### **Unique directional vibration capabilities** — multi-axis vibration technology for optimized parts

multi-axis vibration technology for optimized parts control and singulation

**Backlight options** — red, white, blue, green and infrared available

**Tray configuration options** — ESD/anti-static, anti-stick and anti-rolling available

### Reduced development time vs. typical flexible feeders

**Fully integrated with the Epson RC+ Development Software,** the IntelliFlex Feeding System makes setup and configuration easier than ever. Its point-and-click interface helps reduce the typical development time required for advanced applications, often taking it from weeks down to days.

#### **EPSON SYSTEM SETUP**

- Vision Programming
  - Built-in robot-to-vision calibration and point & click programming
- Part Tuning
  - Automatic parts tuning with vision feeder integration
- **3** Parts Control Adjustment
  - Configuration wizard for defining part separation pick-up area and more

#### TYPICAL SYSTEM SETUP

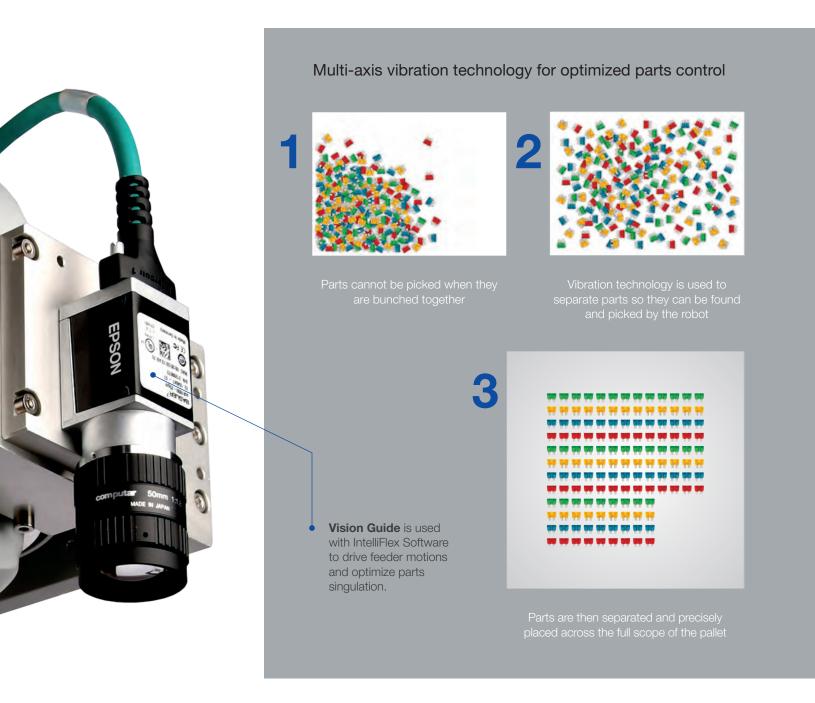
- Feeder Communications
  - Low-level protocol using feeder command set
- Feeder Tuning
  - Getting parts to move properly
- Vision Setup and Calibration
  - Calibrating vision system to robot
- **Vision Programming**Finding parts reliably
- System ProgrammingRobot + Feeder +
- OptimizationFine-tuning and performance optimization

Vision coordination



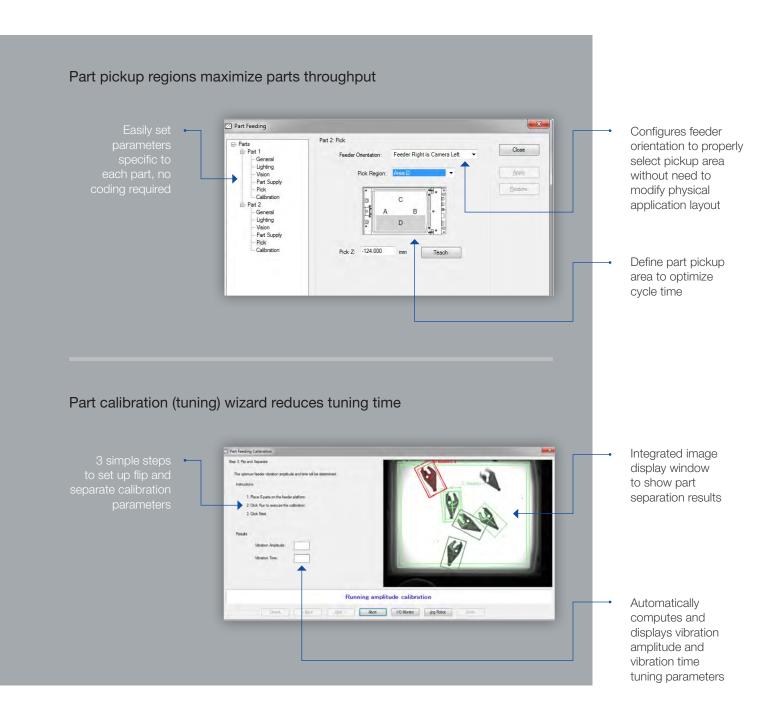
### Easy customization to support a wide variety of parts

**The IntelliFlex Feeding System** works in conjunction with Epson RC+ Development Software to provide a step-by-step approach to system configuration. An easy-to-use wizard makes it simple to set up the feeder to the exact parameters needed for many different part types.



### Precision parts calibration with smart auto-tuning

**Epson RC+ Development Software** also features an intuitive wizard to guide users through customized calibration. Step-by-step, this wizard automatically determines the exact values needed for optimum tuning and calibration.



#### Versatile parts compatibility

**The IntelliFlex Flexible Feeding System** supports a wide array of parts and materials, making it ideal for many different part types. Plus, it offers easy setup, allowing for quick parts changeover and reduced cost of ownership.

Unlike bowl feeders, the IntelliFlex Feeding System can be used for the parts you need today, as well as those you may use in the future. Supporting simple to complex parts, the IntelliFlex Feeding System can handle parts ranging from 5 to 40 mm in size.

#### **Applications:**

- Mechanical & Electronic Assembly
- Kitting/Palletizing/Tray Loading
- Material Handling

#### **Parts Materials:**

- Plastic
- Rubber
- Metal



### Options to meet your needs today and in the future

**Choose from a variety of options,** designed to meet your needs, based on the parts and materials being handled. Multiple backlight options are available to meet the vision lighting requirements for your specific parts. Tray configuration options are also available to accommodate varying part types.

- Backlight options red, white, green, blue and infrared available
- Tray configuration options ESD/anti-static, anti-stick and anti-rolling available
- Hopper for easy loading of additional parts





# The Epson Advantage



Why Choose Epson Robots: As precision automation specialists, the Epson Robots Team has been building automation products for over 35 years. As a leader in small-parts assembly applications, we've introduced many firsts. As a result, our innovative products are hard at work in thousands of manufacturing facilities throughout the world.

#### Leading Epson Technology

- Sepson is the #1 SCARA robot manufacturer in the world
- We introduced the world's first folding-arm 6-Axis robot
- Epson's proprietary QMEMS Technology with special gyro sensors significantly reduces residual vibration, resulting in faster cycle times



#### What you need, when you need it

- The Epson lineup features 6-Axis and SCARA robots with payloads up to 20 kg and a reach ranging from 175 to 1,480 mm
- We offer a wide range of integrated options including Vision Guidance, Force Guidance and more

#### Intuitive programming software

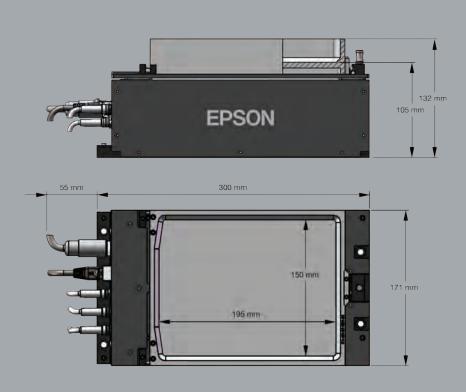
Epson RC+ software is extremely user-friendly, making automation setup fast and easy

#### Reliability you can count on

- Our team is dedicated to helping you find the best solution for your automation needs
- Section 2 Epson robots are long-lasting and require little maintenance

#### **IntelliFlex Feeding System Specifications**

Flexible Feeder Specifications	
Model Name	IntelliFlex 240
Model No.	RIF 240
Part Size Dimensions	5 - 40 mm
Communication	Ethernet (TCP/IP)
Power Supply	24 V/8 A
Vibration Platform (Length x Width)	195 x 150 mm
Footprint (Length x Width x Height)	300 x 171 x 132 mm
Compatible Robots	G-Series/LS-Series/RS-Series/T-Series/C-Series/N-Series/VT-Series
Compatible Vision Systems	Vision Guide CV2 and PV1
What's in the Box	Flexible Feeder, Vibration Plate, IntelliFlex Software, 5 M Power Cable, & RJ45 CAT5e Cable
Integrated Backlight LED Options	Red/White/Blue/Green/Infrared
Tray Configuration Options	ESD (Anti-Static)/Anti-Stick/Anti-Rolling
Hopper Options	2 Liters and 3 Liters
Support	Customer Service (562) 290-5920 service@robots.epson.com Applications Support (562) 290-5930 applications@robots.epson.com Sales Inquiries (562) 290-5997 info@robots.epson.com





#### **Epson Business Solutions**

Epson is a leading provider of innovative technology solutions that help businesses succeed. We partner with you to best meet your specific needs, focusing on:

- Improved productivity
- World-class customer service and support
- Cost-effective, high-quality solutions
- A commitment to the environment

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