

What Had

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THE INTELLIFLEX[™] FEEDING SYSTEM

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Introducing the smart 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 helps eliminate 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.

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 — four feeder sizes; supports parts from 3 to 15 mm, 5 to 40 mm, 15 to 60 mm and 30 to 150 mm

Quick parts changeover — feeder offers easy setup to accommodate parts that help reduce the 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 control and singulation

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

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

Engineered to reduce 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

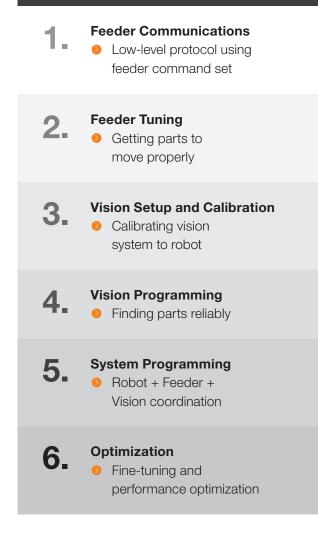
 Vision Programming
 Built-in robot-to-vision calibration and point-and-click programming

- Parts Tuning
 Automatic parts tuning with vision feeder integration
- 3.

Parts Control Adjustment

 Configuration wizard for defining part separation pickup area and more

TYPICAL SYSTEM SETUP



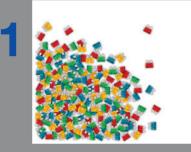


Easy customization to support a wide variety of parts

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.



Multi-axis vibration technology for optimized parts control



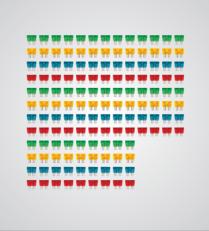
Parts cannot be picked when they are bunched together



Vibration technology is used to separate parts so they can be found and picked by the robot

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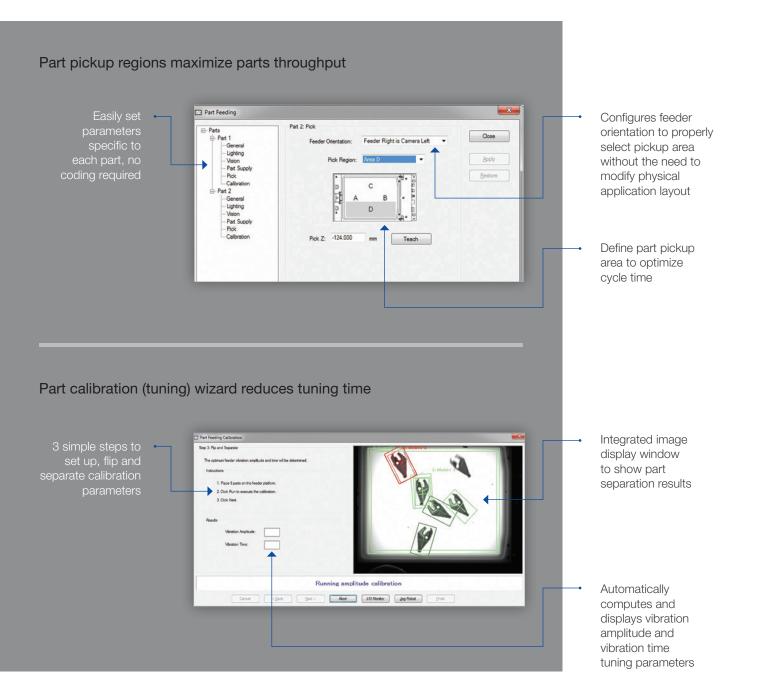
Vision Guide is used with IntelliFlex software to drive feeder motions and optimize parts singulation.



Parts are then separated and precisely placed across the full scope of the pallet

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.



Powerful software made to meet your needs.

Offering multiple options designed to meet the needs of most any

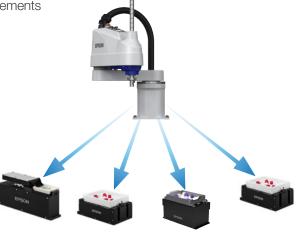
automation solution, IntelliFlex can support up to 16 different parts per project. Comprehensive software enables the robot to pick up to 4 active parts per feeder, at any given time. There is even an option, on select models, to pick parts from 1 feeder using 2 different robots.

Epson RC+ updates offer even greater flexibility

The latest version of our software features many new tools and enhancements to make implementing automation solutions easier than ever.

1 Robot/Controller, up to 4 Feeders

- Supported by select robots
- Feeders can be the same size or different sizes to accommodate a range of part sizes



2 Robots, 1 Feeder
Supported by select robots



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.

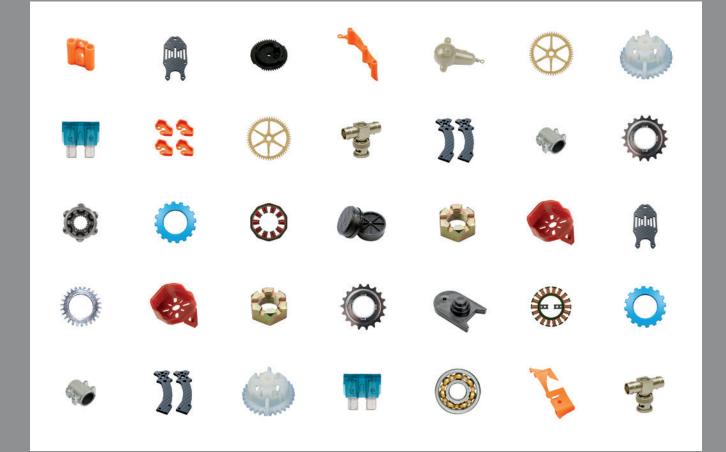
Unlike bowl feeders, the IntelliFlex Feeding System can be used for the parts you need today, as well as those you may use in the future. Supporting simple to complex parts, the IntelliFlex Feeding System can handle parts ranging from 3 to 150 mm in size.

Applications:

- Mechanical and 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, anti-rolling, medical and black available
- Hopper for easy loading of additional parts

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• Purge – automatically remove parts for seamless changeovers

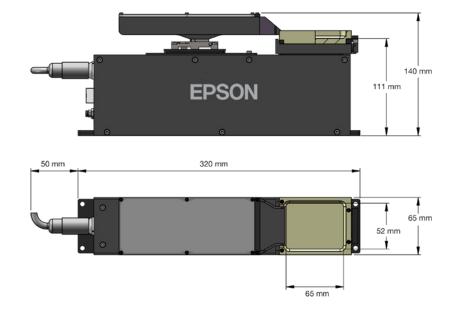
IntelliFlex Feeding System Specifications

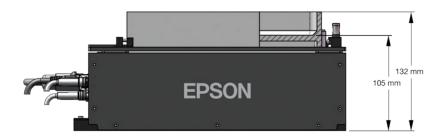
Flexible Feeder Specifications				
Model Name	IntelliFlex 80	IntelliFlex 240	IntelliFlex 380	IntelliFlex 530
Model Number	RIF80	RIF240	RIF380	RIF530
Part Size Dimensions	3 - 15 mm	5 - 40 mm	15 - 60 mm	30 - 150 mm
Max Surface Load Per Feeder	0.05 kg	0.4 kg	1.5 kg	2.0 kg
Communication	Ethernet (TCP/IP)			
Power Supply	24 V / 6 A	24 V / 8 A	24 V / 20 A	24 V / 20 A
Vibration Platform (Length x Width)	65 x 52 mm	195 x 150 mm	254 x 325 mm	427 x 371 mm
Footprint (Length x Width x Height)	320 x 65 x 140 mm	300 x 171 x 132 mm	499 x 257 x 307 mm	600 x 372 x 320 mm
Compatible Robot Series	SCARA: G/LS-B/RS/T 6-Axis: C/N/VT			
Vision Integration	Vision Guide PV1 and CV2			
Software Features				
Max # Of Feeders Supported Per Robot Controller (All-in-Ones)	2			
Max # Of Feeders Supported Per Robot Controller (RC700A and RC90B)	4			
Max # Of Robots Sharing The Same Feeder At The Same Time (RC700A With Drive Units Only)	2			
Max # Of Robots Sharing The Same Feeder At The Same Time (RC90B and All-in-Ones)	1			
Max # Of Unique Parts Per Feeder Running At The Same Time	4			
Max # Of Parts Per Development Environment Project (Epson RC+)	16			
Purge Software Function (IntelliFlex 80 Requires Purge Calibration)	Supported			
Options				
Purge Hardware	Optional hardware required	Feeder customization required	Optional hardware required	
Integrated Backlight Options		White / Red / Infrared / Green / Blue		
Tray Configuration Options	ESD (Anti-static) Anti-stick Anti-rolling Medical Black			
Hopper Sizes	0.16 L	2 L / 3 L	10 L	15 L
What's In The Box?	Flexible Feeder, IntelliFlex Software, Power and Communication Cables			
Support	Customer Service(562) 290-5920service@robots.epson.comApplications Support(562) 290-5930applications@robots.epson.comSales Inquiries(562) 290-5997info@robots.epson.com			

Versatile lineup made to meet your parts feeding needs

IntelliFlex 80

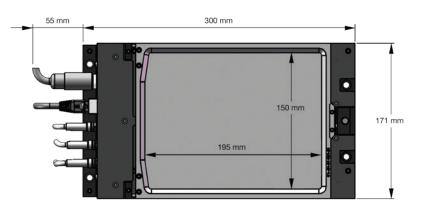
- Part sizes supported: 3 to 15 mm
- Vibration platform: 65 x 52 mm
- Hopper size: 0.16 L

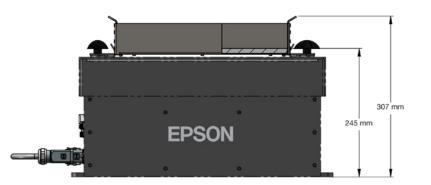




IntelliFlex 240

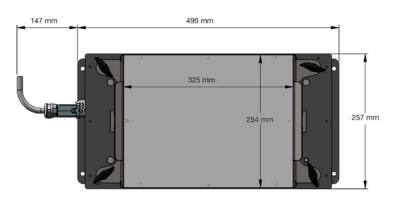
- Part sizes supported: 5 to 40 mm
- > Vibration platform: 195 x 150 mm
- Hopper size: 2 L / 3 L





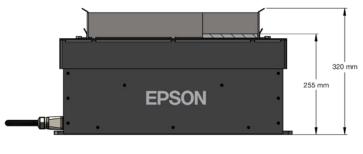
IntelliFlex 380

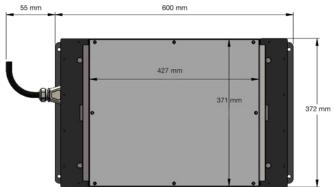
- Part sizes supported: 15 to 60 mm
- O Vibration platform: 325 x 254 mm
- Hopper size: 10 L





- Part sizes supported: 30 to 150 mm
- Vibration platform: 427 x 371 mm
- O Hopper size: 15 L







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

Discover how Epson can help you work toward the future. www.epson.com/forbusiness

Epson America, Inc. 3131 Katella Ave., Los Alamitos, CA 90720 Epson Canada Limited 185 Renfrew Drive, Markham, Ontario L3R 6G3 www.epson.com www.epson.ca www.epsonrobots.com

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KANSAS CITY, MO 1566 N. Topping Ave. Kansas City, MO 64120 913.440.4477 SPRINGFIELD, MO 4319 S. National Ave. Springfield, MO 65810 417.724.2231 **ST. LOUIS, MO** 2021 Congressional Dr. St. Louis, MO 63146 314-731-4444 BLOOMINGTON, IL 1701 Empire St. Bloomington, IL 61704 217.615.4440