

# FEEDALL FEEDS ALL.

Meet  
Feedall  
Flex



# FACT:

## Factories need more automation.

With **inflation**, **labor shortages**, and the need to **localize manufacturing**, automation has never been more important.

And Feedall can make integrating premium automation simpler with systems that fit seamlessly into any application.





INTRODUCING  
**Feedall  
Flex  
Feeders**

**MADE IN THE USA** *FOR HUNGRY ROBOTS.*

## VS. BIN PICKING:

-  Functions with a less expensive 2D vision camera system
-  Predictable cycle times and feed rates
-  Simplified programming and setup time
-  Provides part separation and orientation for increased pickability

## VS. OTHERS:

-  Largest pickable area in the industry
-  Handles the heaviest parts
-  Provides superior part control for face selection and orientation
-  Features an integrated stabilization plate
-  Ensures American-made quality and lead-times

# WHY FEEDALL?



Built to handle **larger part sizes**  
and the **heaviest payloads**  
with the **largest pickable area.**



***Feedall***  
***Flex***

10

# INTEGRATES EASILY

with any robot or linear axis system.

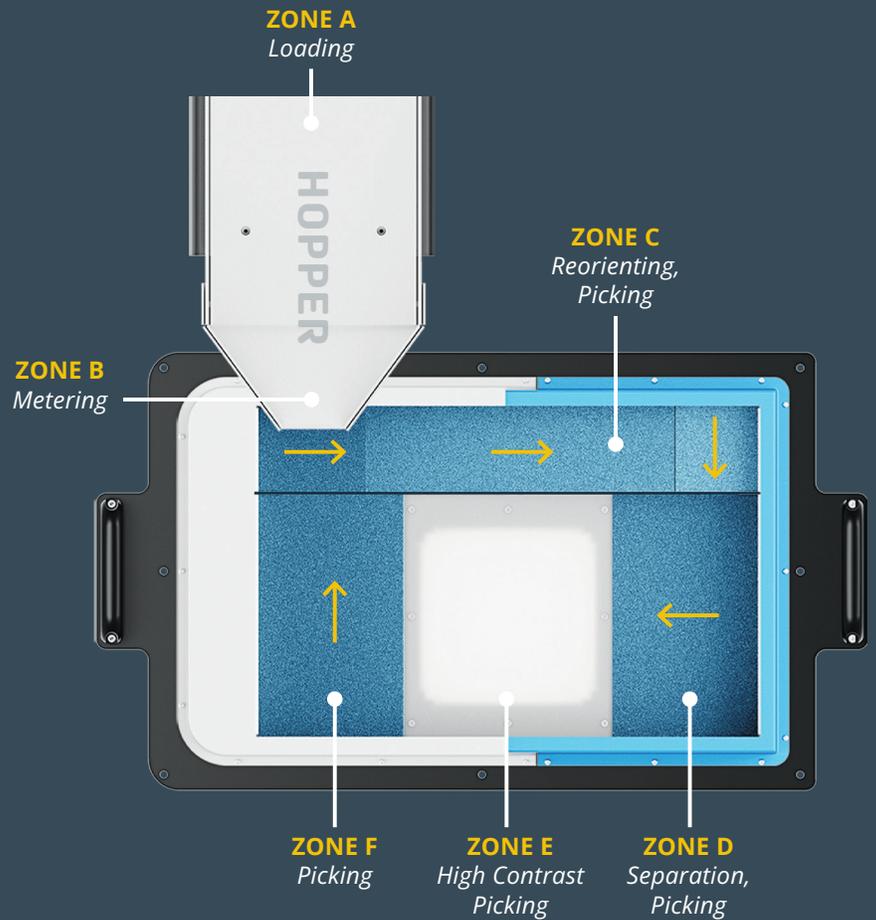


+ Feedall Guide Eye technology

+ Feedall hoppers for precise part metering

+ Optional EOAT support and supply

**Feedall**  
**Flex**



### HERE'S HOW IT FEEDS:

A vibrating table recirculates parts around the picking zone. The feeder cycles on and off, allowing your vision system to capture an image, locate pickable parts, and retrieve them with the robot. *Bon appétit.*

# MODELS

Here's our variety of Flex Feeders, built for all applications and parts of any size, surface condition, or material. *Hope you're hungry, robots.*

A compact Flex Feeder that fits seamlessly into tight spaces—for big robot appetites.

Range of part sizes	<b>2 - 65 mm (0.1 - 2.6 in)</b>	★
Max payload	<b>4 kg (8.8 lb)</b>	★
Pickable area	<b>465 cm<sup>2</sup> (72 in<sup>2</sup>)</b>	
Max part weight	<b>100 g (3.5 oz)</b>	★
Overall dimensions	<b>31 x 64 cm (12 x 25 in)</b>	



This mid-sized feeder has carved out its niche as the new standard.

Range of part sizes	<b>2 - 100 mm (0.1 - 3.9 in)</b>	★
Max payload	<b>10 kg (22 lb)</b>	★
Pickable area	<b>1,162 cm<sup>2</sup> (180 in<sup>2</sup>)</b>	★
Max part weight	<b>250 g (8.8 oz)</b>	★
Overall dimensions	<b>38 x 79 cm (15 x 31 in)</b>	



# 1624



As our most versatile feeder, it can handle a wide range of part sizes in a smaller, convenient footprint.

Range of part sizes	<b>5 - 175 mm (0.2 - 6.9 in)</b>	★
Max payload	<b>15 kg (31.1 lb)</b>	★
Pickable area	<b>2,477 cm<sup>2</sup> (384 in<sup>2</sup>)</b>	★
Max part weight	<b>0.6 kg (1.3 lb)</b>	★
Overall dimensions	<b>53 x 94 cm (21 x 37 in)</b>	

# 3042



An extra-large footprint for max robot consumption, as well as a full assortment of options: including multiple-lane functionality.

Range of part sizes	<b>10 - 350 mm (0.4 - 14 in)</b>	★
Max payload	<b>20 kg (44.1 lb)</b>	★
Pickable area	<b>8,192 cm<sup>2</sup> (1,260 in<sup>2</sup>)</b>	★
Max part weight	<b>1.2 kg (2.64 lb)</b>	★
Overall dimensions	<b>84 x 117 cm (33 x 46 in)</b>	

# HIGH-PERFORMANCE FEATURES

## with a side of accessories.

All Feedall Flex Feeders offer built-in features and options to help you streamline operations and maximize throughput.

	Model 612	Model 1018	Model 1624	Model 3042
✔ Mounting Plate	●	●	●	
✔ Mounting Stand				●
✔ Control Box	●	●	●	●
✔ Coil Sensors	●	●	●	●
✔ Ramp	●	●	●	●
✔ Backlight	●	●	●	●
✔ Detangler Box	●	●	●	
✔ Surface Kits	●	●	●	●
✔ Antiroll UHMW Surface	●	●	●	●
✔ Camera Mount	●	●	●	
✔ 2D Camera Kit	●	●	●	●
✔ 3D Camera Kit	●	●	●	●
✔ EOAT	●	●	●	●
✔ Cart	●	●	●	

**STANDARD FEATURES** ✔ **AVAILABLE OPTIONS** ✔



**MOUNTING PLATE**



**MOUNTING STAND**



**CONTROL BOX**



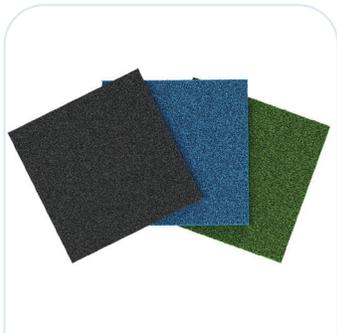
**RAMP**



**BACKLIGHT**



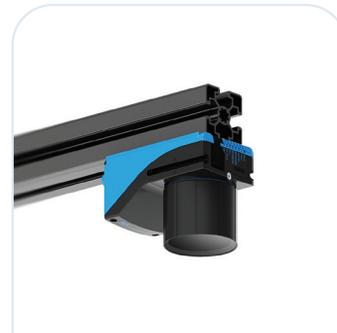
**DETANGLER BOX**



**SURFACE KITS**



**ANTIROLL UHMW SURFACE**



**CAMERA MOUNT**



**2D CAMERA KIT**



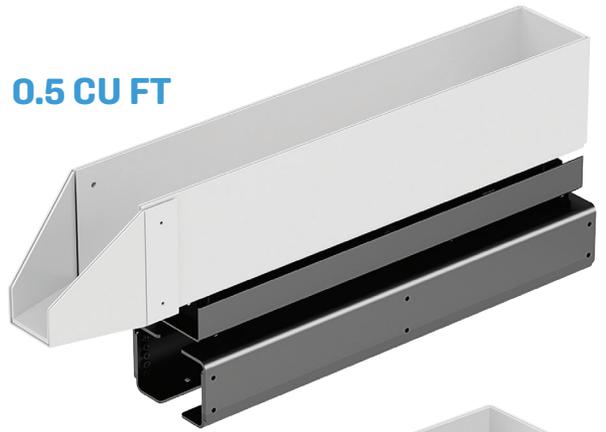
**3D CAMERA KIT**



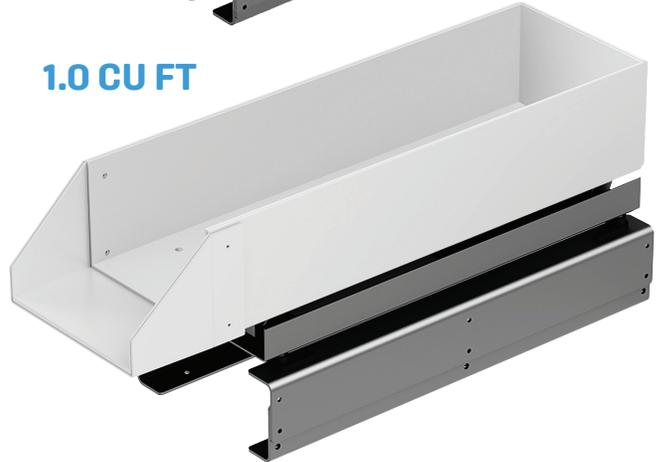
**EOAT**

# STREET FEED BOX STREET

0.5 CU FT



1.0 CU FT



2.0 CU FT



4.0 CU FT



These hoppers pair seamlessly with Feedall Flex Feeders to precisely deliver parts for hungry robots. They're designed to handle the heaviest, as well as the lightest parts, with gentle delivery. And unlike competitors, we include cables and a control box so you can power up and start feeding ASAP.



RISER



FUNNELS

**0.5  
CU FT**

**1.0  
CU FT**

**2.0  
CU FT**

**4.0  
CU FT**

**LONG  
INFEED**

**HOPPER COMPATIBILITY**

	0.5 CU FT	1.0 CU FT	2.0 CU FT	4.0 CU FT	LONG INFEED
Model 612	●	●			
Model 1018		●	●		
Model 1624		●	●		●
Model 3042				●	●

**OPTIONS**

	0.5 CU FT	1.0 CU FT	2.0 CU FT	4.0 CU FT	LONG INFEED
Mounting Plate	●	●	●	●	
Riser	●	●	●		
High Level Sensor	●	●	●	●	●
Stand				●	●
Funnels	●	●	●		

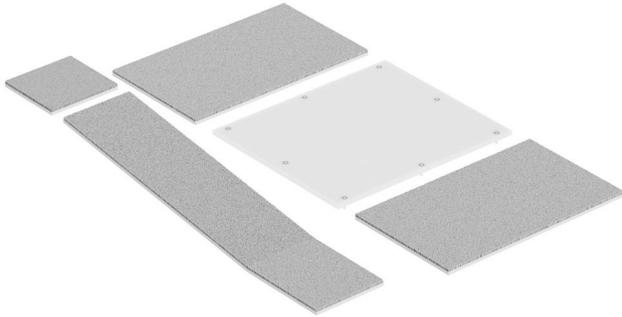
# MODULAR SURFACE KITS

Robot feeding fact: different types of parts require different feeder surfaces. That's why we offer a variety of modular surface kits that fit your parts' needs. So, choose the one that'll keep your hungry robot happy.



### Soft Brush

For Gentle Part Movement



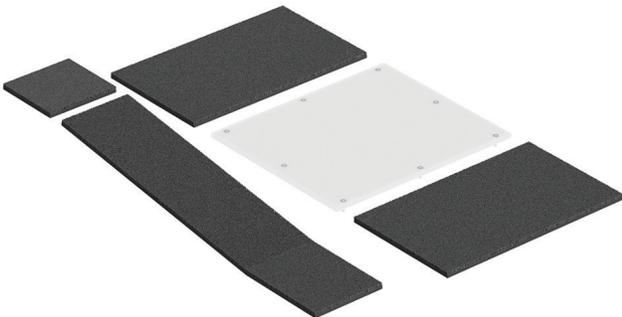
### Slide-Brush®

For Heavy Parts



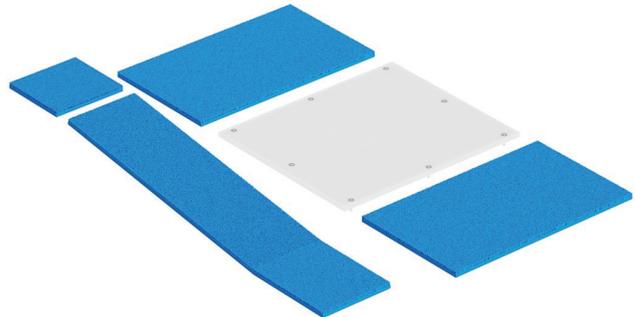
### Slide-Brush® - HD

For Complex Parts



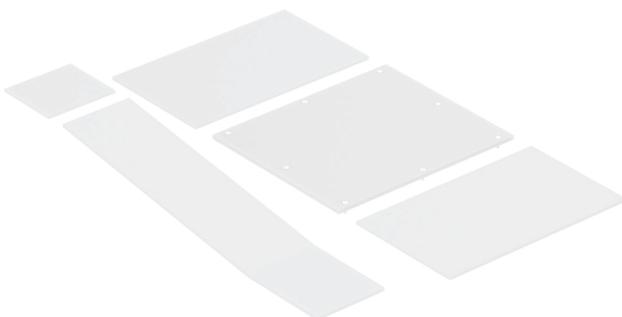
### Slide-Brush® - FG

For Food Grade Needs



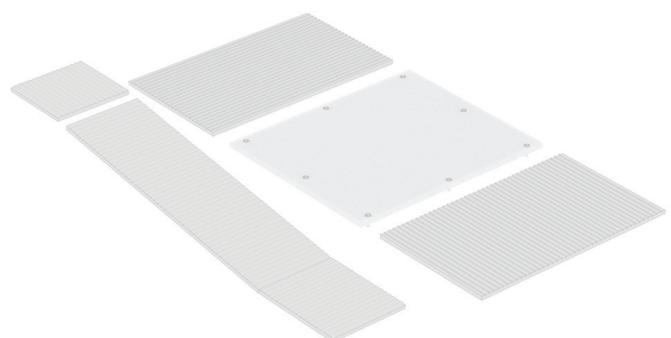
### Thermoplastic

For Abrasion Protection



### Anti-Roll

For Cylindrical Parts



# Feedall Guide Eye®

Powered by SICK's PLOC2D, Guide Eye is a compact, high-quality imager that provides a fast, cost-effective way to automate pick-and-place applications in any environment.



**COMPATIBLE  
WITH MOST  
MAINSTREAM  
ROBOT BRANDS  
GLOBALLY**

- |                          |                      |                                      |                            |                                   |                |
|--------------------------|----------------------|--------------------------------------|----------------------------|-----------------------------------|----------------|
| <b>ABB</b>               | <b>COMAU</b>         | <b>DENSO</b>                         | <b>DOOSAN</b>              | <b>EPSON</b>                      | <b>FANUC</b>   |
| <b>Kawasaki Robotics</b> | <b>KUKA</b>          | <b>MECADEMIC INDUSTRIAL ROBOTICS</b> | <b>MITSUBISHI ELECTRIC</b> | <b>NACHI ROBOTIC SYSTEMS INC.</b> |                |
| <b>OMRON</b>             | <b>STANDARD BOTS</b> | <b>STÄUBLI</b>                       | <b>UNIVERSAL ROBOTS</b>    | <b>YAMAHA</b>                     | <b>YASKAWA</b> |



## WHAT'S INCLUDED

Feedall's Guide Eye 2D vision software package is developed in conjunction with SICK. This system, compatible with all industrial robots, allows for rapid setup of feeding cells. It includes:

- SICK PLOC2D Camera
- SICK SIM Edge computing device for feeder control
- Calibration aids
- Camera bracket
- All necessary cables

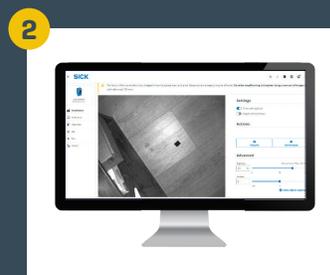
## Even with no machine experience, setting up Guide Eye takes approximately 20 minutes.



1

### SET UP THE SYSTEM

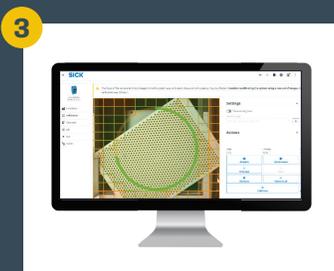
Bring your system online through the user account and adjust the focus and brightness of the camera



2

### CALIBRATE THE CAMERA

Simply select the calibration target from the list and capture a minimum of six images at varying angles



3

### ALIGN THE ROBOT

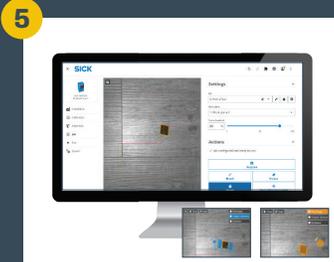
Achieve precise camera-to-robot coordination through our alignment workflow



4

### CREATE A NEW JOB

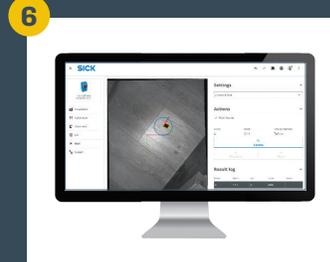
Set up a new job (or multiple jobs) on the work plane and select a part reference point to accurately position the robot



5

### ASSIGN THE FEEDER SETTINGS

Set the rodex drive according to the specifications listed on the startup worksheet



6

### RUN PRODUCTION

With real-world coordinates for each detected part, you'll have performance verification and accurate, reliable picking

# Choose the right kit **FOR YOUR ROBOT- NOSHING NEEDS.**

We have bundle options for both tabletop feeders and larger free-standing components to accommodate your production needs. *Order up!*





### Basic Bundle

For system integrators or end-users who want to integrate the controls and vision themselves

	✓ Coil Controls	✓ Coil Sensors	2D Camera	3D Camera	I/O Block	Robot Guidance
Complicated Part Geometries			<i>Complex</i>			<i>Simple</i>
Easy to Integrate			<i>Difficult</i>			<i>Easy</i>
Pick Speed			<i>Slow</i>			<i>Fast</i>
Affordability			<i>Expensive</i>			<i>Economical</i>



### Plug-and-Play Bundle

For the simplest integration and user experience

**MOST POPULAR**

	✓ Coil Controls	✓ Coil Sensors	✓ 2D Camera	3D Camera	✓ I/O Block	✓ Robot Guidance
Complicated Part Geometries			<i>Complex</i>			<i>Simple</i>
Easy to Integrate			<i>Difficult</i>			<i>Easy</i>
Pick Speed			<i>Slow</i>			<i>Fast</i>
Affordability			<i>Expensive</i>			<i>Economical</i>



### Advanced Guidance Bundle

Only required for the most complex parts with multiple pickable features and orientations

	✓ Coil Controls	✓ Coil Sensors	2D Camera	✓ 3D Camera	✓ I/O Block	✓ Robot Guidance
Complicated Part Geometries			<i>Complex</i>			<i>Simple</i>
Easy to Integrate			<i>Difficult</i>			<i>Easy</i>
Pick Speed			<i>Slow</i>			<i>Fast</i>
Affordability			<i>Expensive</i>			<i>Economical</i>

# Here to **SHAKE UP** the flex feeder wor

## ABOUT FEEDALL

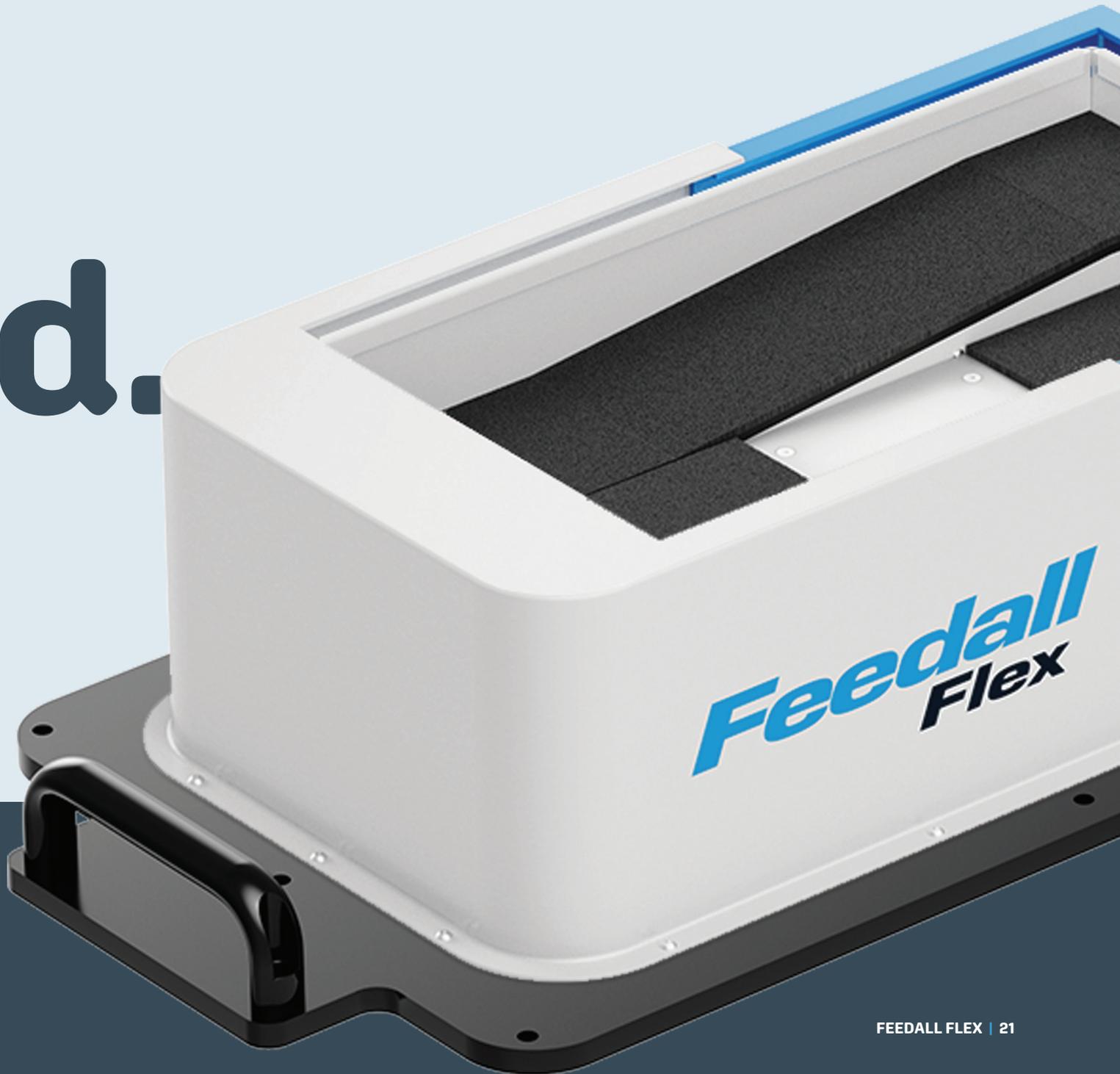
Feedall Automation was founded in 1946 with the goal of helping companies achieve higher production rates. Since then, we've honed our reputation as pioneers and innovators in part feeding systems, material handling solutions, and equipment that optimize robot performance.

over  
**22,000**  
orders

over  
**2,000**  
happy customers

over  
**75**  
years in business

ld.



## Feast on why integrators (and robots) love Feedall.

- > We provide **free testing and problem solving** with our 2,000 sq ft robotics lab and highly experienced engineers.
- > We don't quit after we ship. With over 75 years in the industry and more than 22,000 orders completed, we understand that **continued support** may be required.
- > Unlike most companies in the industry, we offer a **full robot-feeding ecosystem**—including vision-enabled flex feeding, bin picking, and long-lasting mechanical solutions.

### THE APPLICATIONS WE SERVE



Assembly



Pick and Place



Kitting



Machine Tending



Sorting



Packaging



**Feedall**  
**Flex**

# HIGH PERFORMANCE

is always on the menu.

AUTOMATION PRODUCTS ● SOFTWARE TECHNOLOGIES ●



## *Feedall* Core X

Precision Part Feeders for robots that don't like camera vision



## *Feedall* Gripp

Custom designed End-of-Arm-Tooling that fits your robot like a glove



## *Feedall* Flex

Flex Feeder Bundles to lead and feed your robot



## *Feedall* Pick

Bin Picking Software to guide your robot in-and-out of bins



1018

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**GET A QUOTE**

