THE PARTS CHANGE.

THE ANYFEED REMAINS THE SAME.

flexfactory
feeding success.

WE THINK IN PARTS, LIKE YOU.

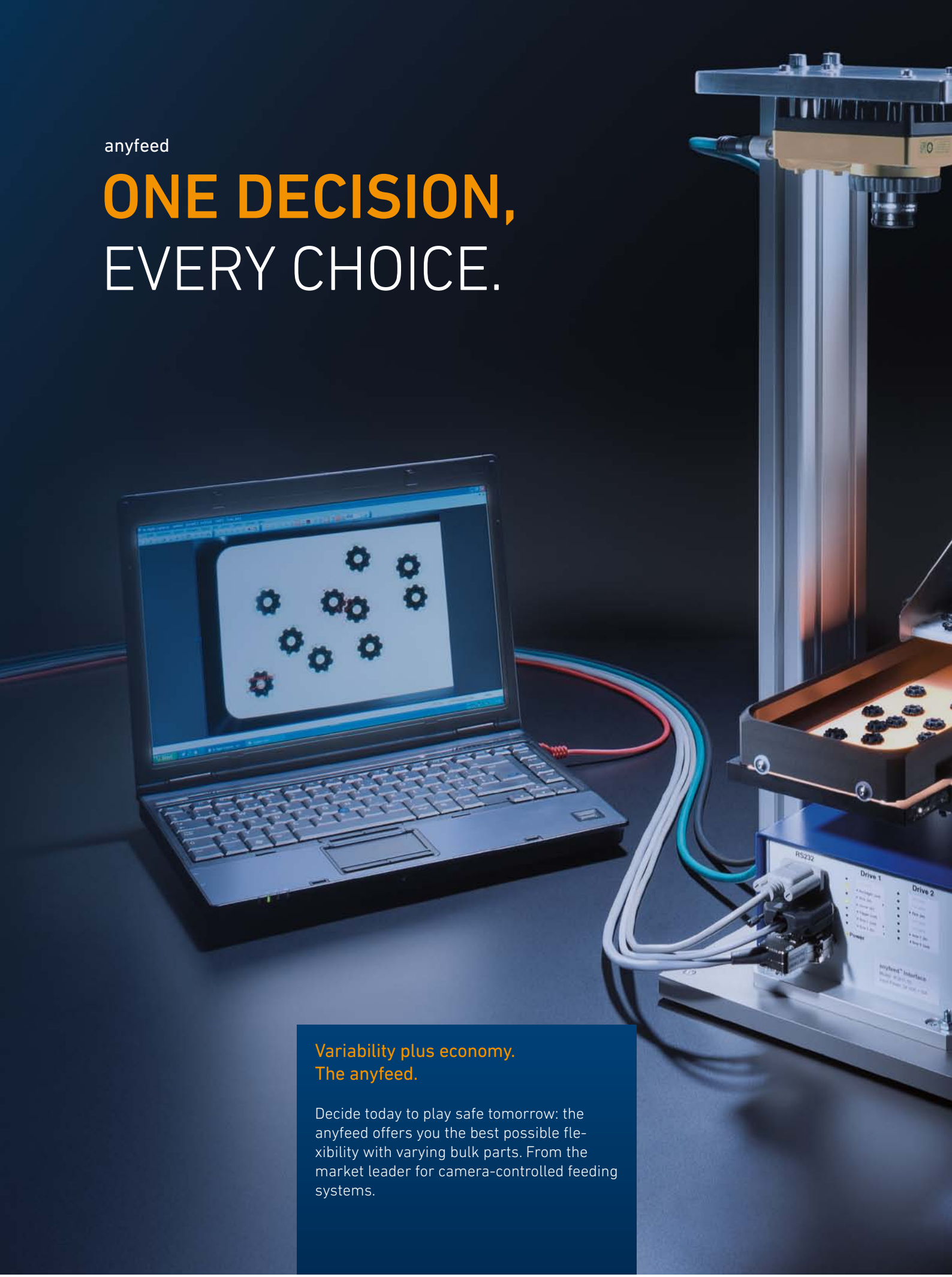
You can tell a smart feeder by the way it easily conveys even complicated parts. That's why our feeder systems focus on the parts to be processed. Our mission is to bring them into your production precisely, gently, reliably, and highly flexibly, and to ensure that your investment pays off in the long-run. The fact that we have set market-leading standards over the past 20 years makes us proud and motivates us.

› Developing, manufacturing, testing, optimizing: here, all departments and colleagues work hand in hand, the ways are short and the cooperation is very dynamic. ‹

CEO – Felix Büchi

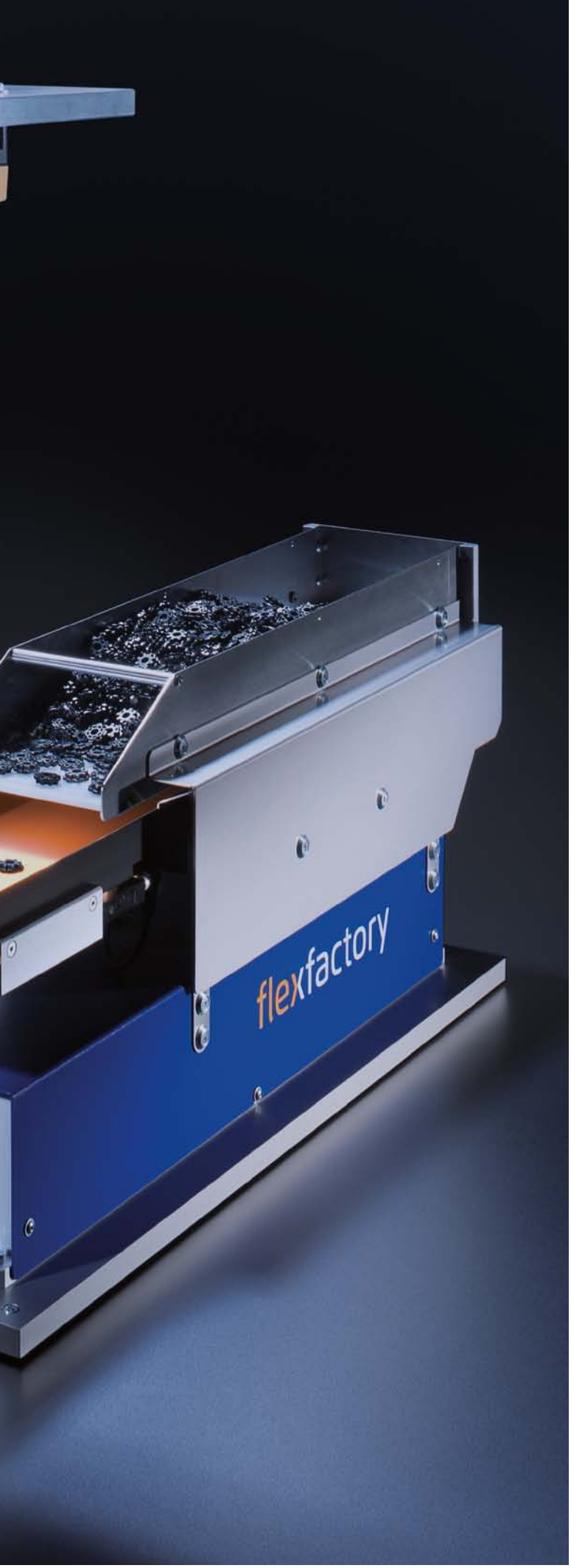
anyfeed

ONE DECISION, EVERY CHOICE.



Variability plus economy. The anyfeed.

Decide today to play safe tomorrow: the anyfeed offers you the best possible flexibility with varying bulk parts. From the market leader for camera-controlled feeding systems.



Discover what flexibility in feeding means.

Flexibility is already in our name. As a leading developer, manufacturer and supplier, flexfactory stands for high-quality and particularly variable feeding systems for bulk materials. At our headquarter in Switzerland, we apply our expertise and experience to nothing less than revolutionizing feeding technology. Our feeder solutions, for example, add a new dimension to automated production systems: they precisely provide parts with high performance and enable product changeovers in the shortest time possible. And all this with a small footprint and conceivably simple handling. Find out how you can secure crunch competitive edge on this page – or in a one-on-one interview. We look forward to talking to you about the right feeder for you.

Product features:
On request, the feeder can be delivered already with your parts teached.

- Innovative, highly flexible feeder technology for all robots
- Maximum availability thanks to automatic error correction
- LED backlight [white, red or IR]
- Camera unit and feedware CX as complete system included in delivery
- part spectrum from 1 - 120 mm
- Minimal changeover times when changing products
- simple change of feeder surfaces
- Minimal footprint – one anyfeed replaces several conventional feeders
- Exceptionally gentle parts handling
- Standardized communication with all models
- Simple servicing thanks to the use of identical servo-electric drives in all models

Functional principle

FLEXIBLE FEEDING. THE COMPLETE SOLUTION.

Completely efficient.

Conveying small and very small parts and providing them correctly for the next work step: This requires a system with different components and capabilities – especially if different parts are to run over it. In order to smoothly manage the entire process, including part changeover, we have designed the anyfeed as a complete system. It specializes in flexible feeding and a variety of parts and ensures that one feeder is – and remains – the solution for everything.

1 Software Unit

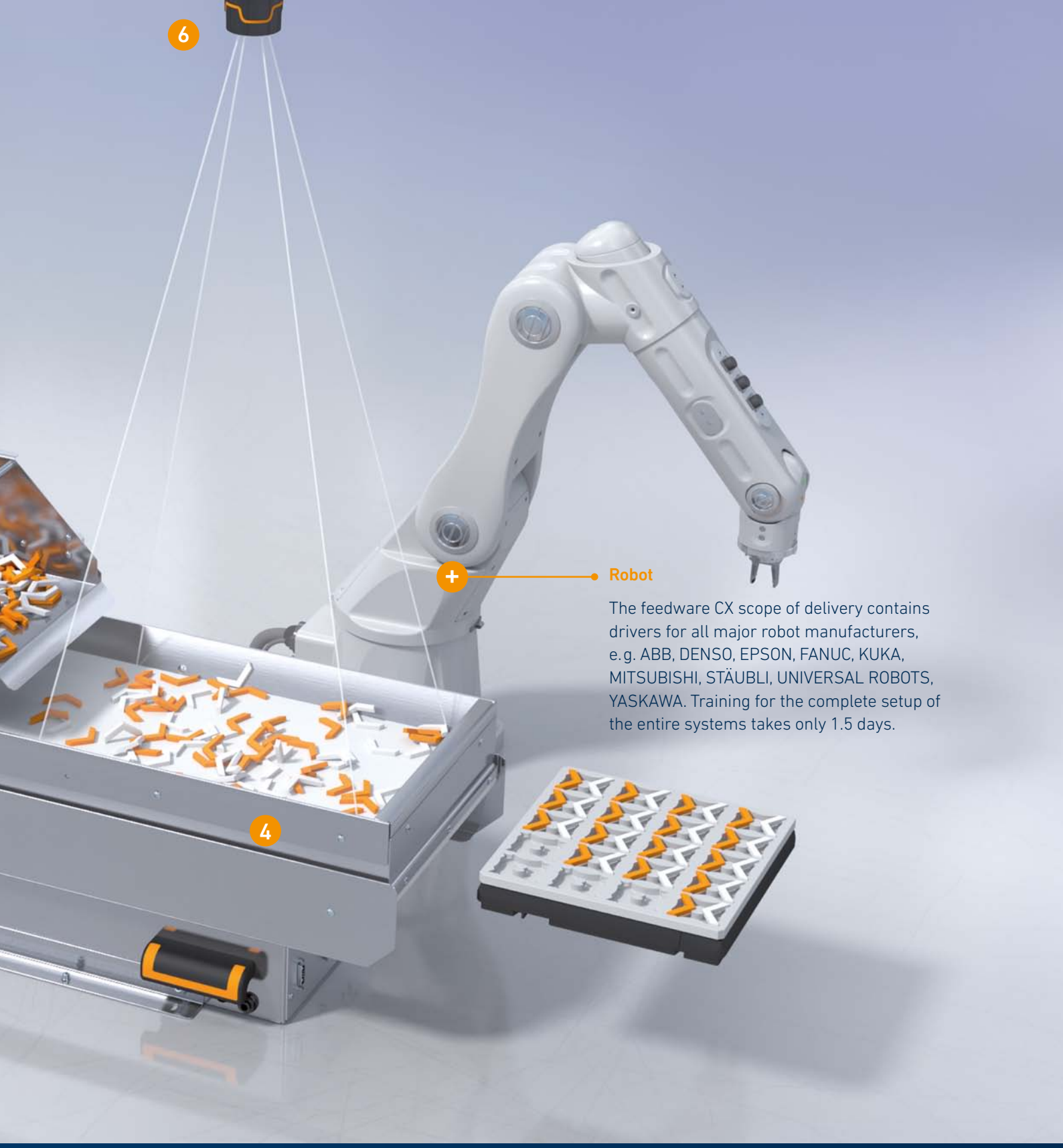
feedware CX's intelligent algorithms continuously analyse the distribution and orientation of the parts on the shaker. That way, the optimal movements are activated, so the parts can be recognized by the camera and become pickable for the robot. Due to the user interface, the installation process is quick and easy.

2 Bulk storage bin

The applications autonomy is increased by the bulk storage bin, where a stock of parts remains until the camera, fully automized, requests a fresh supply. In case of a product changeover, both bulk storage bin and the entire feeder unit can be emptied fully automatically.

3 Feeder Unit

The feeder unit consists of a bulk storage bin and a feeder platform. Using the camera unit and feedware CX, parts can be moved back and forth, flipped and seperated. Robust and durable design ensures reliable applications.



Robot

The feedware CX scope of delivery contains drivers for all major robot manufacturers, e.g. ABB, DENSO, EPSON, FANUC, KUKA, MITSUBISHI, STÄUBLI, UNIVERSAL ROBOTS, YASKAWA. Training for the complete setup of the entire systems takes only 1.5 days.

4 Shaker

Feeder platform with integrated backlight. A variety of feed plates, consisting of different material, colours, and surface structures, is available. The manual, tool-free feed plate exchange is rapid and simple.

5 Data transfer via ethernet

Camera und robot are connected via ethernet. Data flow between feeder, camera und robot is coordinated fully automatically through feedware CX, which secures a reliable application.

6 Camera Unit

The camera unit takes on the central application control by constantly ananlyzing the location of parts on the feeder and sending commands to feeder unit and robot.

Bonus points

ADVANTAGE ANYFEED. WHAT YOU CAN RELY ON.

ONE FEEDER, ALL PARTS

MINIMUM SPACE REQUIREMENT

GENTLE ON YOUR PARTS

EASY COBOTS

FEASIBILITY STUDY

TRAININGS

MADE IN SWITZERLAND

ANYFEED SXM50	
Recommended part size	15 mm
Minimal part size	0.15 mm
Maximum part weight	2 g
Bulk storage capacity	0.3 dm^3 500 g
Pick window [B x L]	5 x 6.7 [cm] 34 cm^2
Permissible load inside pick window	50 g
Pick up level	138 mm
Feeder weight	7 kg

ANYFEED SXM100	
Recommended part size	30 mm
Minimal part size	0.15 mm
Maximum part weight	15 g
Bulk storage capacity	3 dm^3 3 kg
Pick window [B x L]	10 x 13.4 [cm] 134 cm^2
Permissible load inside pick window	500 g
Pick up level	171 mm
Feeder weight	18 kg

ANYFEED SXM140	
Recommended part size	45 mm
Minimal part size	0.15 mm
Maximum part weight	25 g
Bulk storage capacity	4 dm^3/8 dm^3 5 kg
Pick window [B x L]	14 x 19.3 [cm] 270 cm^2
Permissible load inside pick window	500 g
Pick up level	160 mm
Feeder weight	22 kg

Designed for part diversity
The anyfeed feeding principle is excellently suited to process a wide variety of parts with one feeder. Per feeder, the parts are usually fed by type. This means that several conventional feeders are replaced by one anyfeed, expensive changeover times are eliminated, and valuable production space can be used elsewhere.

Coordinated complete system
flexfactory feeders consist of a feeding system, a camera system, and the software, and are developed as an integrated complete system. Your advantage: The components optimally match each other. For more efficiency and process reliability. In addition, flexfactory is thus your one partner for the entire feeder system.

No jammed parts
Flexible feeding is always jam-free feeding – it's in the system. Unlike with e.g. vibratory feeders, nothing jams – everything runs smoothly.

No stress for the parts
The bulk storage bin only activates when the pick-up window requires more parts. Otherwise, the bulk material rests stress-free. Therefore, even cosmetically or functionally delicate parts can be fed gently.

Preset management and easy retrieval
Keyword preset management: On request, we can also teach your parts in advance at our test center and save the settings directly on the feeder.

Uncompromisingly compatible
Interoperable with all commercially available robot systems thanks to Feedware CX software.

We provide information about the many other advantages here:
www.flexfactory.de
Or in a personal conversation?

ANYFEED SXM200	
Recommended part size	45 mm
Minimal part size	0.15 mm
Maximum part weight	25 g
Bulk storage capacity	6 dm^3/8 dm^3 7 kg
Pick window [B x L]	20 x 26.6 [cm] 532 cm^2
Permissible load inside pick window	500 g
Pick up level	160 mm
Feeder weight	26 – 27 kg

ANYFEED SXM240	
Recommended part size	75 mm
Minimal part size	0.5 mm
Maximum part weight	60 g
Bulk storage capacity	10 dm^3 10 kg
Pick window [B x L]	24 x 32 [cm] 768 cm^2
Permissible load inside pick window	1500 g
Pick up level	241 mm
Feeder weight	50 kg

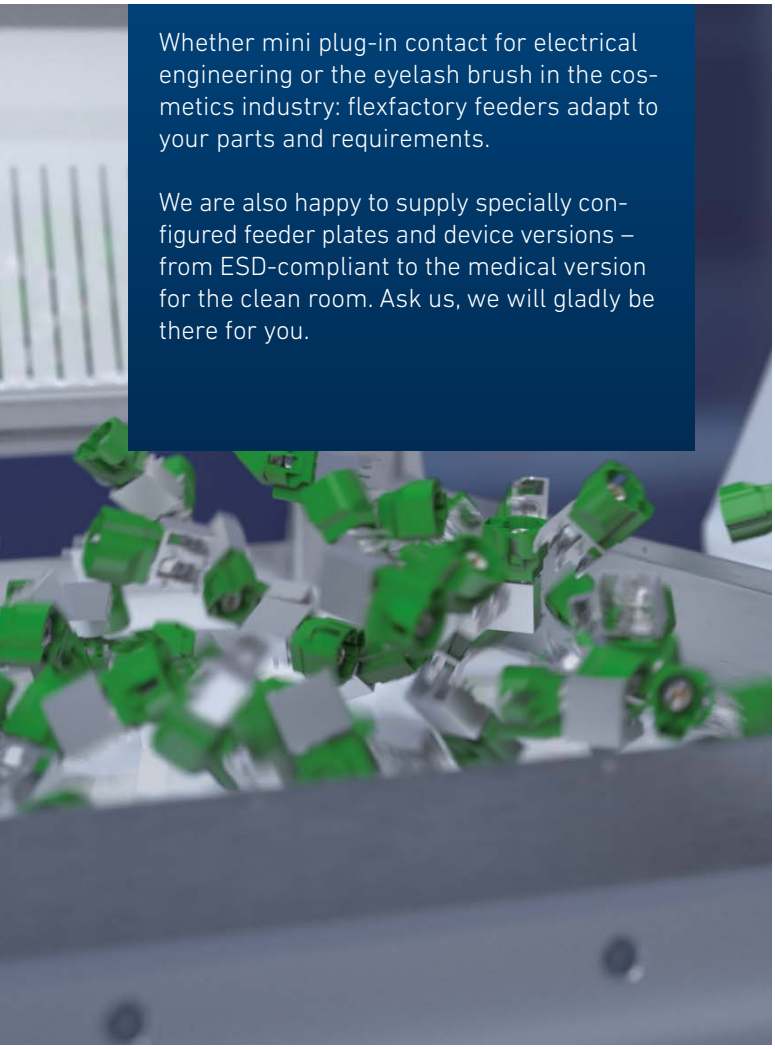
ANYFEED SXM340	
Recommended part size	110 mm
Minimal part size	0.5 mm
Maximum part weight	75 g
Bulk storage capacity	15 dm^3 12 kg
Pick window [B x L]	34 x 45.3 [cm] 1540 cm^2
Permissible load inside pick window	1500 g
Pick up level	255 mm
Feeder weight	55 kg

Application areas

FROM PLUG-IN CONTACT TO GEAR WHEEL. DIVERSITY OF PARTS.

The flexfactory feeding technology is used wherever small parts (approx. 1 to 120 mm) have to be provided flexibly and precisely. It proves advantageous especially where production is subject to permanent changes, e.g. at customers in the following industries:

- Electronics
- Automotive industry
- Medical technology
- Jewelry and watch industry
- Personal care and cosmetic industry
- Consumer Goods and Packaging industry



Whether mini plug-in contact for electrical engineering or the eyelash brush in the cosmetics industry: flexfactory feeders adapt to your parts and requirements.

We are also happy to supply specially configured feeder plates and device versions – from ESD-compliant to the medical version for the clean room. Ask us, we will gladly be there for you.

YOUR PARTS ON THE TEST BENCH. FOR A WELL-FOUNDED DECISION.

In flexfactory's test center, our application engineers put your critical parts through their paces. This gives you the security you need to make a well-founded decision.

After all, you as a customer want to increase your production quality and reduce costs. This can be achieved through short cycle times, high precision and absolute reliability – flexfactory's key qualities for over 20 years.

How will your parts be handled on the feeder? What settings are required and what performance will be possible with your parts? These questions, and more, will be analyzed in a feasibility study. We would be pleased if you assigned us for this service.

flexfactory
WARNING

UNIVERSAL ROBOTS

STÄUBLI

GET READY!
WITH OUR TRAINING COURSES.

Training – feedware CX

In just 1.5 days you will learn everything you need to put your anyfeed including the image processing system feedWare CX into operation. We will also explain to you how the communication between the camera system and your choice of robot is realized and you will have the opportunity to practice what you have learned with various examples.

Communication with anyfeed
+ Feeding commands
+ Feeder answers
+ Parameterisation

Connection to vision system
+ Electrical connections
+ Data interface
+ How it works

Software
+ Setup
+ General operation
+ Basic settings
+ Set up part recognition
+ Additional tests
+ Feeder parameters
+ Conveying logic
+ Reference calibration data

Communication/interface to robot
+ Operating modes
+ Sequences
+ Error handling

Camera – robot calibration
(coordinate alignment)
+ Operating principle
+ Prerequisites/Framework conditions
+ Multiple calibration
  (for different part heights)

Troubleshooting/Diagnosis
+ Notes on gripper functionality
+ Pointers on the arrangement of camera, anyfeed and robot
+ Notes on lighting and extraneous light shielding

A TEAM PLAYER, EASY TO INTEGRATE.

To ensure that your feeder integrates perfectly and works with your existing system, we have equipped it with a high level of compatibility.

Over 4,000 feeders are in operation with these robots worldwide.

+ IAI Intelligent Actuators	+ Stäubli
+ ABB	+ Precise Automation
+ DENSO	+ Epson
+ FANUC	+ Yamaha
+ KUKA	+ YASKAWA
+ Mitsubishi	+ Universal Robots

flexfactory

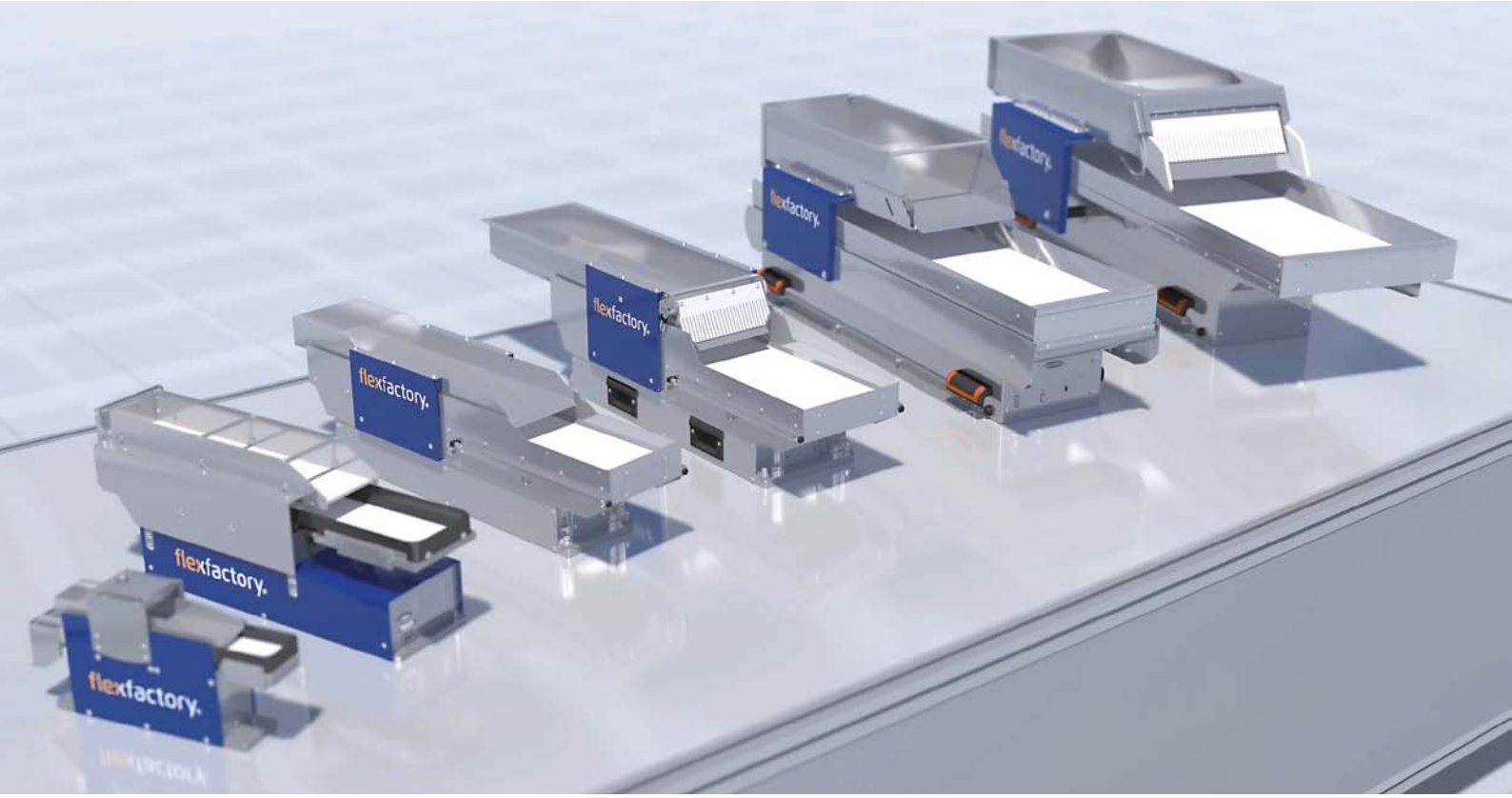
TS60
STÄUBLI
flexfactory

The future of feeding starts with us.

When Felix Büchi founds flexfactory in 1999, he is one of the pioneers in feeding equipment and develops his own patents. This is the spirit of innovation that has remained bright with us to this day. Every day, our team takes on the challenge of not only making automated feeding better and better, but revolutionizing it. The fact that we succeed is perhaps also due to the fact that we have always remained a little old-fashioned in one respect: We do everything ourselves. Which means, we develop and manufacture the systems completely under one roof here in Switzerland in Dietikon. From software to on-site customer service, we thus offer you everything from a single source. Another factor that makes feeding systems from flexfactory a decision for real reliability and long usability.

Do you have any further Questions? We look forward to hearing from you. Our team in Dietikon and at our partners in Europe are there for you to make your feeding more and more flexible, sustainable and faster.

Give us a call or write to us.
See you soon:
Phone +41 44 774 55 66
E-mail info@flexfactory.com



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