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STIWA

stiwa.com

FEEDING TECHNOLOGY

YOUR CHALLENGE. OUR SOLUTION.
THE STIWA FEEDING TECHNOLOGY PORTFOLIO

The clock generator of your production
Reliable feeding systems for maximum efficiency

The productivity of your production starts with the perfect supply of parts. Modern automation must combine the highest speed, maximum flexibility and uncompromising process reliability. At STIWA, we strive to transform this critical process from a potential bottleneck into a reliable performance driver for you.

With over **50 years of experience in feeding technology**, our answer is not a single system, but a well-thought-out portfolio. All our systems are based on a common foundation of maximum performance and technical precision. On this basis, each product line is precisely optimized for a specific core requirement.

What does this mean for you? Performance and reliability that go far beyond market standards and measurably improve your production.

Your benefits at a glance:
Competence & expertise for your production

- **Wide number of features**
- **Tool-free setup in minutes**
- **Decades of service life**
- **All components tested permanently**
- **Cleanroom suitability (ISO 6)**
- **Peak performance up to 1,000 parts/min**

STIWA Feeding Technology

Component feeding with precision and timing

Discover all the Feeding Technology solutions from our extensive portfolio

The STIWA solution portfolio
efficient, durable and flexible

Round Feed Modular (RFM)
robust & durable

The Round Feed Modular (RFM) is a reliable and economical solution for standard parts without compromising quality.
It combines a standardized, reproducible design with the security of a holistic solution from a single source.

- **Cost-effectiveness for standard parts**
- **Highest reliability in continuous operation**
- **Reproducibly precise feeding**
- **Ideal for bulk parts up to 30mm**
- **Robust design for standard parts**
- **Various material and coating options for the conveyor pot**
- **Continuous, precise parts supply**
- **Easy maintenance and high durability**

LinFeed Modular (LFM)
Maximum efficiency in large dimensions

The LinFeed Modular (LFM) system is designed as our flexible base model. It combines the high performance of the conventional feeder with the flexibility of a modular system. The result is a **customized feeding solution that is precisely tailored to your demanding parts and machine layout.**

- **Modular design for individual solutions**
- **For small to large parts (up to 300mm)**
- **Cost-effective base with full performance**
- **Continuous, precise parts supply**

	LFM 2	LFM 3	LFM 4	LFM 5	LFM 6
Product part body diagonal	Up to 30mm	Up to 60mm	Up to 90mm	Up to 120mm	Up to 300mm
Hopper volume	2 liters	18 liters	36 liters	60 liters	100 liters
Dosing	Inclined conveyor Step feeder Conveyor pot		Inclined conveyor Step feeder Magnetic elevator		

The STIWA solution portfolio
efficient, durable and flexible

LinFeed Compact (LFC)
All-in-One-solution

The all-in-one solution for demanding series production. Do you need maximum speed, absolute reliability and easy integration? This is exactly why the LFC was developed. As a completely encapsulated system, it combines all components in a modern, closed housing. This allows you to benefit from maximum process stability, protection against external influences and significantly faster start-up

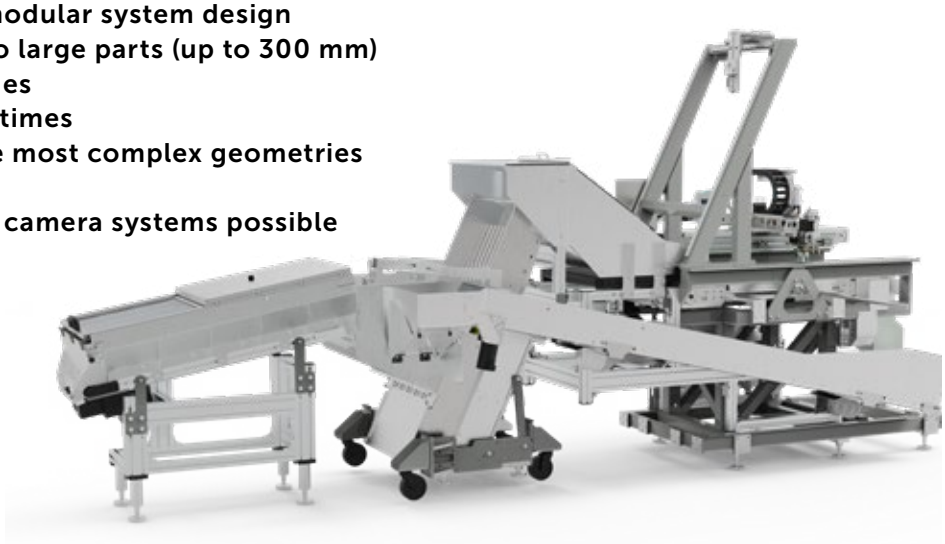
- **Fully integrated feeding unit**
- **Highest part throughput**
- **Quick-change device**
- **AI-supported conveying simulation (STIFSIM)**
- **Hopper rapid emptying**

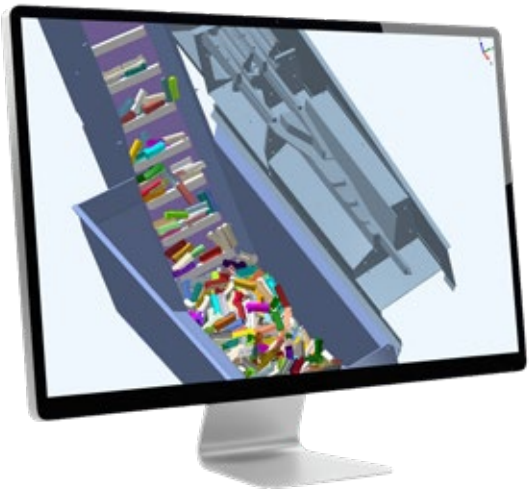
	LFC 2	LFC 3	LFC 4	LFC 5
Product part body diagonal	Up to 30mm	Up to 60mm	Up to 90mm	Up to 120mm
Hopper volume	2 liters	26 liters	52 liters	110 liters
Dosing	Inclined conveyor Step feeder Conveyor pot	Inclined conveyor	Inclined conveyor Step feeder Conveyor pot	Inclined conveyor

FlexFeed models (FF)
Maximum agility through camera-based part recognition

The FlexFeed system replaces rigid mechanics with intelligent, camera-based 2D and 3D part recognition. This technology enables purely software-based product changes, so that mechanical setup times are completely eliminated. This gives your production a new level of agility and prepares you for tomorrow's manufacturing needs.

- **Flexible configuration through modular system design**
- **Wide range of parts from small to large parts (up to 300 mm)**
- **Ideal for frequent product changes**
- **Elimination of mechanical setup times**
- **Precise orientation even with the most complex geometries**
- **Robot-guided part separation**
- **Integration of all kinematics and camera systems possible**

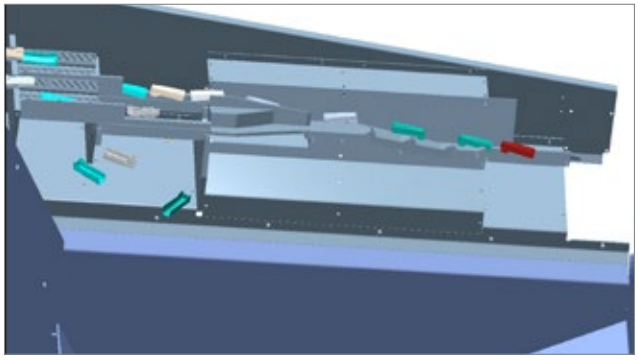




Digital Feeding platform (DFP)
Performance guaranteed from the start

With our digital twin, we simulate and optimize your complete feeding process long before the first real component exists. As an exclusive service for our customers, we use our simulation platform to answer the crucial questions digitally and accelerate prototype development. **This ensures shorter project times, guaranteed performance and maximum investment security for your automation project.**

- **Reduced project turnaround times**
- **Performance and investment security**
- **Increased process reliability & risk minimization**
- **Specialized analysis plug-ins**
- **Comprehensive digital parts database**
- **Analysis and optimization of existing machines**



The physics-based simulation (left) and the resulting behavior in the real system (right), in direct comparison.

Expertise & Solutions
Our approach to your success

The classic way: Building & Hoping?	Our approach: Simulation & Knowledge
Expensive physical prototypes	**Digital feasibility analysis based on CAD data**
Long, incalculable test phases	**Physics-based simulation of the entire process**
High risk of unwanted developments	**Systematic optimization in the virtual world**
Performance uncertainty up to start-up	**Validated performance guarantee prior to construction**

AUTOMATION **MANUFACTURING** **SOFTWARE**

Innovative solutions from a single source.

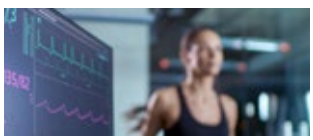
The unique interplay of **state-of-the-art automation technology**, efficient high performance production technologies and efficient software tools enables STIWA to strengthen the market position of its customers worldwide. We incorporate our comprehensive know-how from the **product idea to serial production** into the development of new products. In this way, we set new standards in the field of **digital, fully automated production**.

1972	12	280 Mio. €	2,000
foundation	locations	turnover	employees

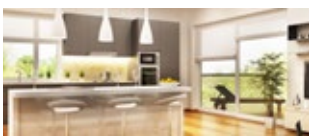
We demonstrate our comprehensive expertise in **automation, production and software** with customers from a wide range of industries:

Industrial Applications

New Mobility



Life Science



Consumer Goods

Christian Aicher
Global Sales Director
Automation

P: +43 7674 603 177
M: +43 664 80803 177
christian.aicher@stiwa.com

STIWA **Automation**

Salzburger Strasse 52, 4800 Attnang-Puchheim, AUSTRIA
+43 7674 603-0, office@stiwa.com

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