



FEEDING SYSTEMS

FEEDINGS

Adaptive – Modular – Intelligent

FEEDINGS

STIWA MECHATRONIC SYSTEMS – YOUR PLUG & WORK PARTNER FOR OPTIMIZED PRODUCTION

As a leading manufacturer of automation technology, we have been providing products, projects and services for many years, thereby enabling optimized technology integrations with the best possible overall effect. Through the targeted interaction of mechanics, software and electronics, we achieve production solutions that guarantee the

greatest possible flexibility, standardization, and safety. Our approach is all about “cooperative growth”, meaning we are there every step of the way along our client’s value added chain. No matter whether you need supply, handling, process, or automation systems, STIWA is your partner for mechatronic special solutions!

OUR SOLUTION

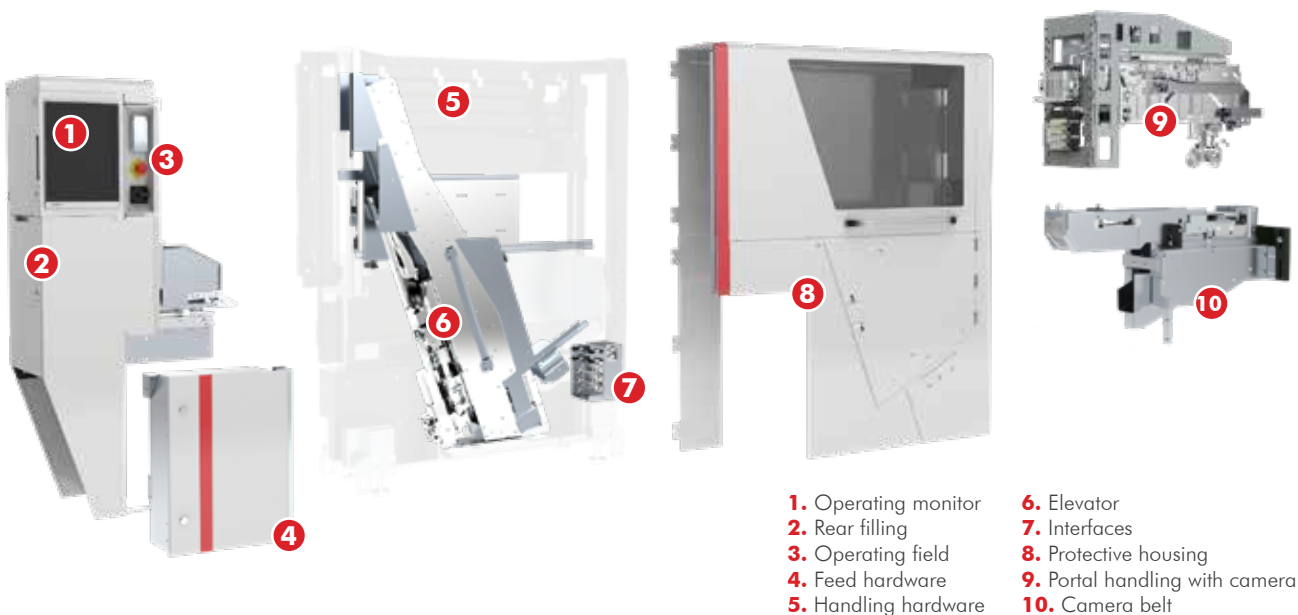
Safe feeding processes are a basic part of modern production and automation systems, particularly in areas of industrial production. STIWA feed solutions feed modern assembly units with low cycle times,

and guarantee precise scaling for your production. At the same time, variable feeds create the optimum interface for bringing in parts in terms of set-up and cycle times.

MECHANICAL STRUCTURE

STIWA linear conveyor technologies have a modular structure and are optimally designed against vibration (molded mineral). In each case, filling can be carried out from the rear or from the operating side. The control of the flow of parts can be

precisely adjusted using the individual elevators for the feed parts. Simple handling, adjusting technology or camera-based 2D detection are used to insert the feeding parts via this system directly into the production system with the perfect orientation.



INTELLIGENT MEANS OF PRODUCTION

With high-performance control cycles of our products, we enable you to control your processes almost in real time. Included basic software guarantees networked processes. The convenient integration ensures quick implementation and optimized control. There is also the option of an ERP connection for production and product data collection, which opens up further analysis options and records important parameters from your production processes.

» We offer individual training courses and workshops for your specific requirements.



**LF 303-CI
with handling**

**LF 303-CI
without handling**



BENEFITS

- » **Ultimate flexibility:** easy adaptation thanks to modular device structure
- » **Can be combined:** stand-alone solution with direct operation on the device also allows for connection to external systems.
- » **Can be expanded:** a wide range of supply parts are possible (complex part shapes).
- » **Shorted possible set-up times:** quick-change devices for adjustment tracks.
- » **Automatic hopper emptying** as well as hopper fill level monitoring

OBJECTIVES AND IMPACT

- » **Quality:** reliable parts supply with high accuracy for continuous production
- » **Connection:** the integration into intelligent resources with communication and interface packages allows for optimized control. Long-term availability of data is guaranteed through transfer to a central system.
- » **Analysis:** production optimization by combining operating status of the machine and data for the processes
- » **Ergonomics:** low vibration and noise generation

OPTIONAL ACCESSORIES

Flexible hopper

- » Possible to fill from the rear or side
- » Logistics connection for hall transfer systems

Variable elevator

- » Inclined conveyor
- » Gentle step conveyor

Conveyor line/adjusting technology

- » Traditional adjusting technology using passive oscillating drive (optional active oscillating drive)
- » Buffer and stop unit
- » Integrated handling as part of the feeding or assembly automation (3–5 degrees of freedom)



TECHNICAL DATA

Feed	LINFEED LF 303-CI
Device dimensions [L/W/H]	<ul style="list-style-type: none"> » Low device: 1660 / 360 / 1650 (1380) (WITHOUT filling from rear) » High device: 1350 / 360 / 1650 (WITHOUT filling from rear) » High device: 1660 / 360 / 1650 (WITH filling from rear)
Weight	approx. 700 kg (configuration-dependent)
Hopper volume	<ul style="list-style-type: none"> » 20 liter hopper conveyor (filling from rear) » 40 liters in the device » Activation hopper up to 300 liters
Filling height	<ul style="list-style-type: none"> » 930 mm with the hopper » 1045 mm when filling from the rear
Filling width	max. 550 mm
Parts dimensions	up to space diagonal of approx. 65 mm
Supply rate with adjusting technology	depending on parts, up to 150 parts/min
Cycle time with handling	<ul style="list-style-type: none"> » Adjusting technology: from 0.6 s » Camera technology: from 1.2 s (parts inserted directly)
Vibration frequency	50 Hz
Noise	up to 75 dBA
Power supply	230 V AC \pm 5% 50/60 Hz
Max. back-up fuse	C6A
Interface	EtherCAT (other bus systems on request)

COMPLETELY INTEGRATED:

- » Flexible plug & work solutions tailored to your needs
- » Control of the IIoT (Industrial Internet of Things): Optimized technology and system integration thanks to many years of experience in the production and networking of automation systems
- » Safe processes with the best possible overall effect and lowest total costs
- » Adaptive, subsequent production: Based on the pre-production processes and according to the situational requirements
- » Comprehensive standardization – high scalability



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