Feeding Technology

Integrated Feeding Systems

Delivering parts at high rates with minimal error and maximum protection.

Our goal for every Feeding System

Innovation, Step by Step

The demands in mass production are constantly increasing. Shorter production time and more frequent lot changes mean conversion of production, more sensitive material and coating. All these new developments require innovative solutions in the field of Automated Parts Feeding Systems.
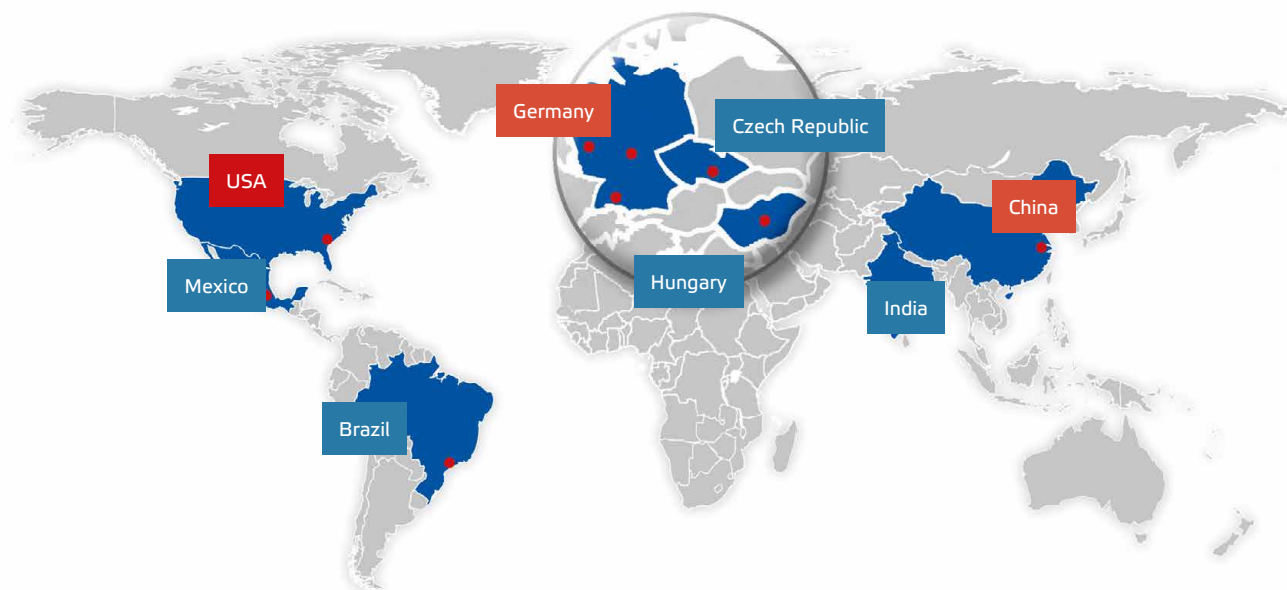
IFSYS has the ability to adapt in the ever changing environment of the automation industry. No matter whether bars, balls, screws or entire subassembly systems need to be part of the production, IFSYS offers an optimum solution for each requirement.

Development · Production · Service

// Quote & Locations

CONSULTATION	Personal on-site discussions. Assistance in the selection of a suitable Feeding System
PLANNING	Development & Design, Documentation according to 2006/42/EG, and Programming/Process of Preparing Timelines
PRODUCTION	Products for storage, feeding and presentation, including various system components
ASSEMBLY	Installation of new Feeding Systems and remodeling of existing Feeding Systems
SUPPORT	Preventative maintenance and spare parts to ensure production longevity and stability

IFSYS has global presence on three continents, allowing for direct contact with a Feeding Technology specialist nearest to customer's locations. As a part of the JOPP Group, IFSYS can serve the diverse needs of global customers.

Germany Czech Republic
USA
Mexico Hungary
China
India
Brazil

// Products

IFSYS is a medium sized company that develops and produces custom machines to handle bulk materials and parts feeding throughout the manufacturing and automation industry.

Our core products are Parts Feeding Systems. Our Feeding Systems are of the highest quality, with great performance, yet very competitive in price.

We are not limited to Parts Feeding Systems alone, as we offer a wide array of automation products and services. Our products include, but are not limited to, palletizing, conveying, quality and dimensional checking, robot cells and integrating simple and complex automated systems.

Personal advice on site

Encompassing range for the Feeding Technology

Flexibility in customized machinery

Intense and short-term care before, during and after an order

ISO 9001: 2008 and ISO 14001: 2004 certified

40,000 ft² production area at our German headquarters

// Linear Feeding System: **VIBROLINER®**

VIBROLINER®

- Allows for most feeding rates and part variants
- All orientation track machine parts are reproducible for replacement
- Sorting tracks are exchangeable or adjustable, either partial or complete
- Reduced part transition heights allow for minimal part damage
- Linear Feeding Technology mitigates the occurrence of jamming
- Vibration adjustments available in a wide spectrum of frequency ranges

The Vibroliner is the heart of the technology at IFSYS. Thanks to a wide variant of sizes and many integration options, the use of Vibroliners in our Feeding Systems is the basis for optimum quality and reliability in part feeding. (A Vibroliner is a vibratory linear conveyor. The Vibroliner uses a pulsating electromagnet to pull against the force of flat springs in order to vibrate the surface of the conveyor.)

With the use of a Vibroliner, parts feeding is gentle and quiet. Compared to other linear vibratory conveyors, the Vibroliner has a low profile as well as the ability to utilize exchange tooling.

// Feeding System: **Step Feeder**

STEP FEEDER

- Technology that has been proven in time to be rugged and reliable
- Inherent in the design, Step Feeders remove small foreign debris
- Large varieties of parts can be fed, including complicated, large, heavy, and fragile
- Allows for high feeding rate with low noise pollution Quick startup and shutdown for ease of part model changes
- Variable discharge heights to ensure compliance with ergonomic filling heights
- Integrated hoppers available with quick emptying ability

The Step Feeder is one of the Feeding Systems that is most widely used. It's used primarily for pre-sorting and dosed loading of our IFSYS-VIBROLINER®.

The IFSYS Step Feeders as well as our other Feeding Systems are sophisticated by their design, optimal feeding rate, and high reliability. A gentle handling of the conveyor components and the lowest possible noise level are just at the center as well as the fulfillment of specific requirements.

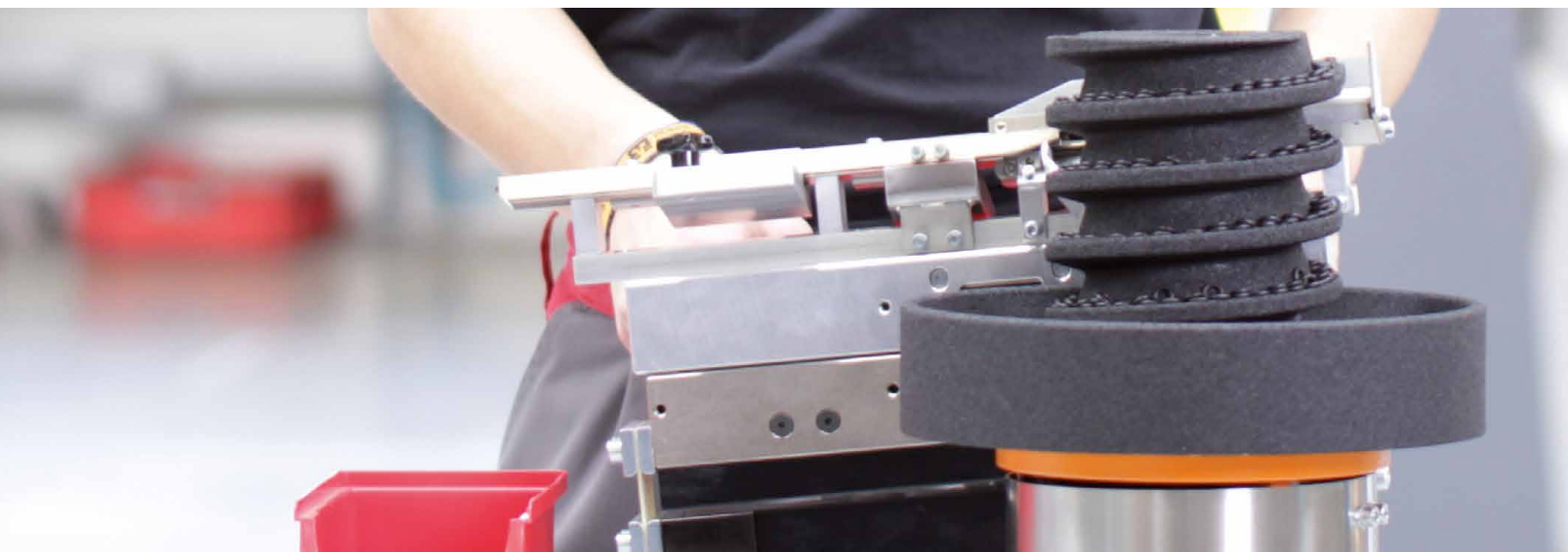Counterfeit Discharge

Oil pan

Exchange Tracks

Serrated Slides

Debris Discharge

Fast Emptying

// Feeding Systems

// Feeding Systems: **Accessories**

PIPE AND BAR FEEDING SYSTEMS

The IFSYS Pipe and Bar Feeding Systems are adjustable for practically all diameters and lengths and are eqiupped with a variety of testing options.

BALL FEEDING SYSTEMS

The IFSYS Ball Feeding Systems are designed for balls with a diameter from of 3.9 to 24 mm (other diameters upon request) and can handle up to 360 parts per minute.

SPIRAL FEEDER SYSTEMS

The IFSYS Spiral Feeder elevates parts in a continuous circular motion to a Vibroliner for linear sorting. This allows for high feeding rates of virtually all bulk parts.

STORAGE SYSTEMS

The IFSYS Storage Feeding Systems allows for the manual loading of multiple lanes or magazines. This type of Feeding System allows for gentle feeding of heavy and large parts that would otherwise be unable to feed automatically.

LIFT SYSTEMS

The IFSYS Lift System allows for feeding of parts at heights greater than the Step Feeder can elevate. This allows the execution of our Feeding Technology at virtually any height while maintaining gentle handling of the parts.

PALLETIZING SYSTEMS

The IFSYS Palletizing System can be customized to accommodate most cycle times and execution heights. These systems can handle most containers and product types while maintaining extremely low noise pollution.

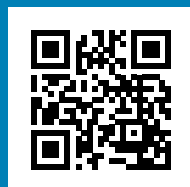| IN FEEDING ACCESSORIES	END EXECUTION ACCESSORIES
MANUALLY OPERATED BY TILTING	SINGLE LANE ESCAPEMENT WITH PARTS INSPECTION
ELECTROMECHANICAL TILTING SYSTEM	MULTIPLE LANE ESCAPEMENT
HOPPER WITH DUMP	HANDLING
CONVEYOR HOPPER WITH QUICK DISCHARGE	TURNTABLE WITH INSPECTION
LOADING AND UNLOADING SYSTEMS	BLOW FEEDING WITH COMPRESSOR TECHNOLOGY
DETANGLING SYSTEMS	CAMERA AND IDENTIFICATION SYSTEMS
	ENGINEERING, SOFTWARE DEVELOPMENT AND SWITCHGEAR CONSTRUCTION
	LINEAR FEEDER VARIANTS
	SOUNDPROOFING SYSTEMS

More Information about our Products
online at: **www.ifsys.us**

// Applications

For examples of feeding applications throughout the automation industry, please visit our website: **www.ifsys.us**

// Service

We are there.
For Machine & People

Competent and comprehensive service from design to installation and commissioning

Assistance in choosing the most suitable system for high performance and reliability

Product design in accordance with customers specifications

Training of operating and maintenance personnel

Conversion of existing Feeding Systems to an upgraded version of Feeding Technology

Assistance with preventative maintenance and spare parts procurement

Consultation. Commissioning. Training. Remodeling. Maintenance

Satisfied customers who rely on IFSYS Feeding Technology:

ABB	John Deere
AUDI	Johnson Controls
BMW	KIA
Bosch Rexroth	Kuka
Bosch Siemens Hausgeräte	L`Orèal
Bosch	Osram
Brose	Porsche
Chrysler	Procter & Gamble
Continental	Scania
Daimler	Siemens
Denso	Skoda
EATON	Thyssen Krupp
Fiat	TRW
Ford	Volvo
GM/OPEL	Volkswagen
INA Schaeffler	ZF Friedrichshafen

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A Member of the JOPP-Group