

# SCREWING SYSTEMS

Screw and screwdriver come together



## Our strengths

Reliable feeding technology for bulk materials is crucial for smooth assembly processes.

Our solutions for feeding screws and other fasteners are precise, fast and reliable.

In addition, we also bring our proven strengths to bear in screwing systems.

- Everything from a single source
- Adaptability
- Highest precision
- Longevity
- High availability
- Individual solutions
- Worldwide service





## Step feeder



### Step feeder

- Various standard sizes available as basic models
- Pneumatic or electric drive
- Gate valves available in various special designs
- Dirt collection tray
- Low-maintenance and low-wear technology

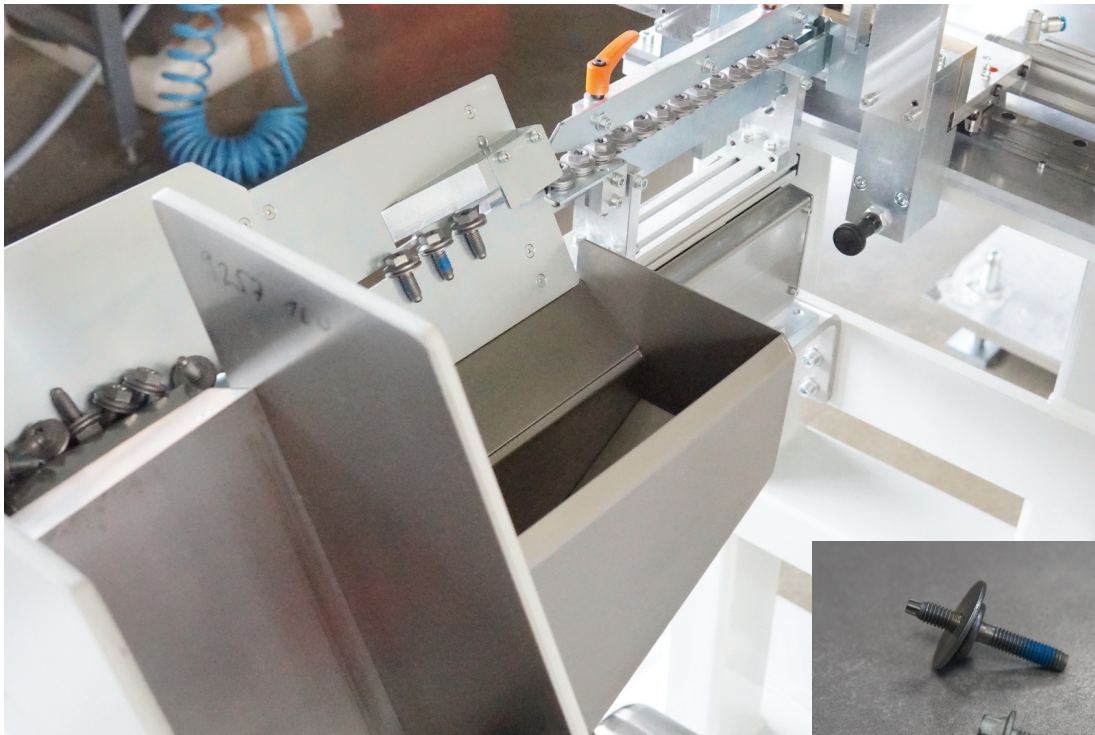
## Storage



### Storage

- Bunker volume from 1 to 200 liters
- Optionally with quick emptying
- Low filling height
- Low-movement storage
- Dirt ejection
- Length sorting
- Diameter sorting
- False-part ejection
- Lid locking
- Suitable for screws with Precote and Loctite

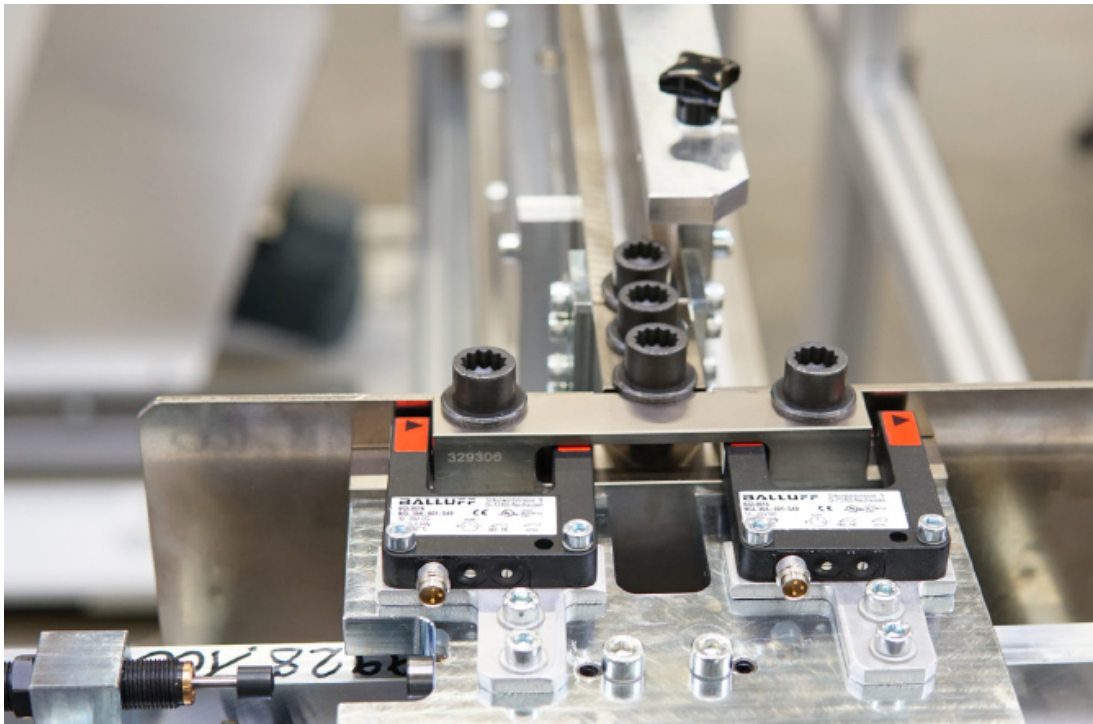
## Sorting rail



### Sorting rail

- Sorting rail with electromagnetic drive
- Multilane
- Part-friendly return systems
- Type testing, including rejection
- Suitable for screws with Precote and Loctite

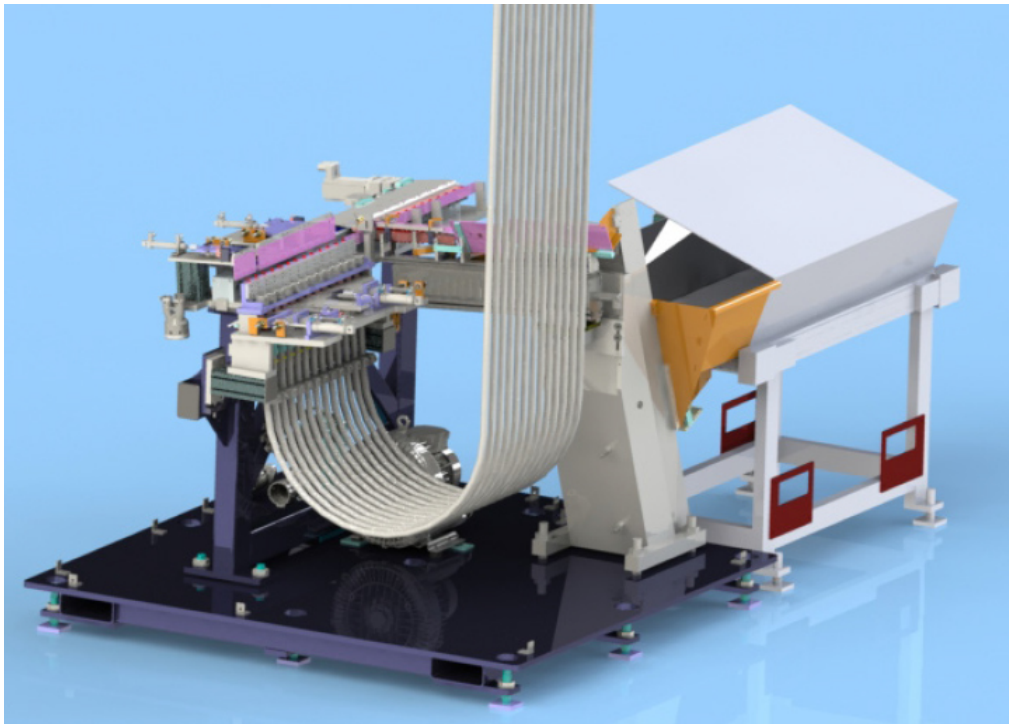
# Separation



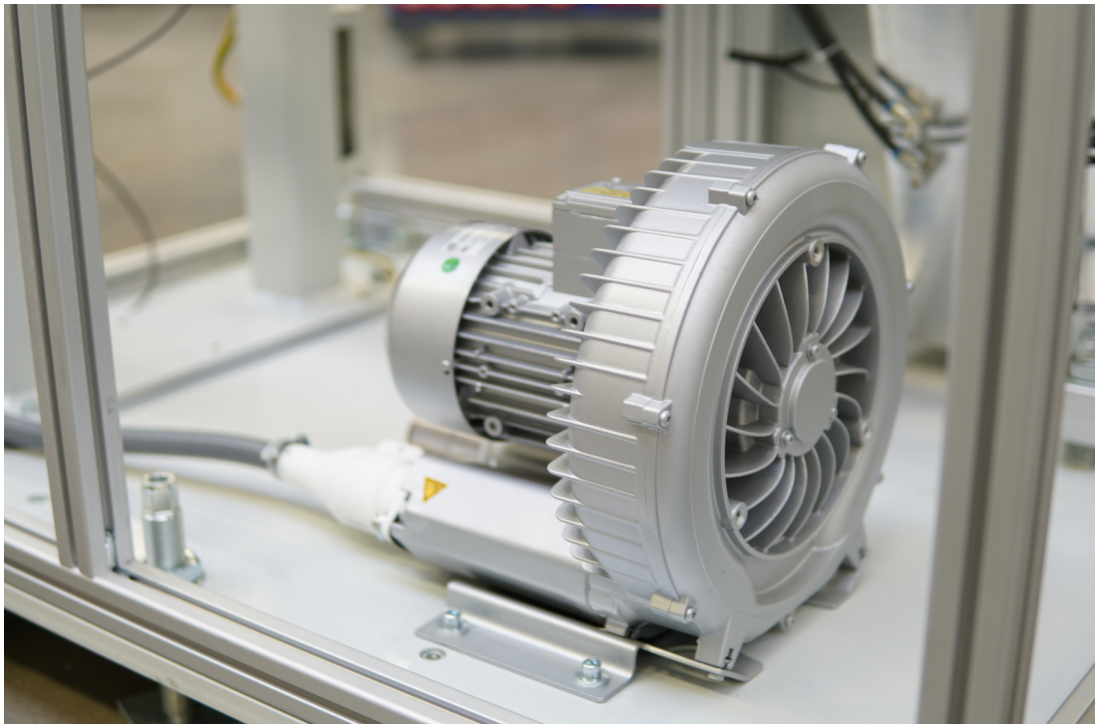
## Separation

- Separation from 1- to 20-fold
- Testing and measuring technology, including rejection

# Blowing



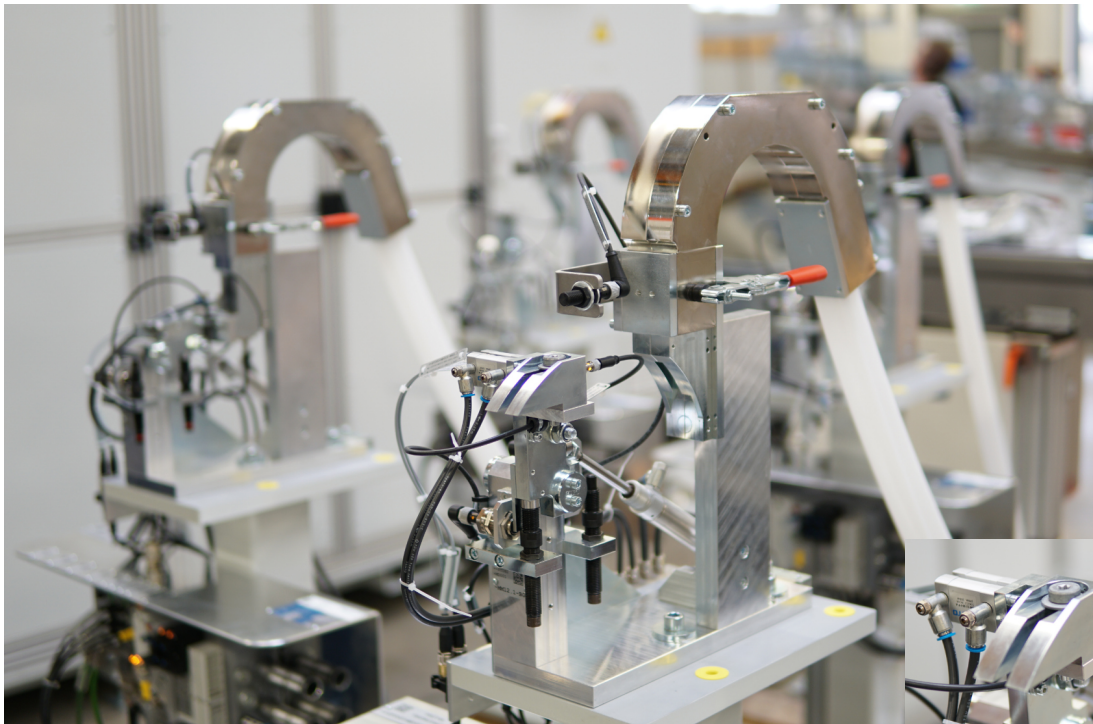
## Blowing with compressor technology



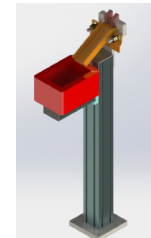
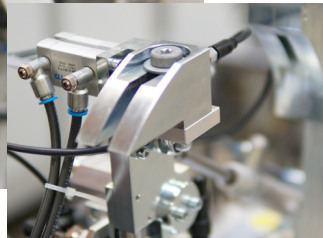
### Fan technology

- Use of blower technology instead of compressed air
- Protection of the feed parts as they floats in the airflow and is not shot like with compressed air technology
- Energy savings thanks to efficient compressors
- Cost saving by avoiding expensive compressed air

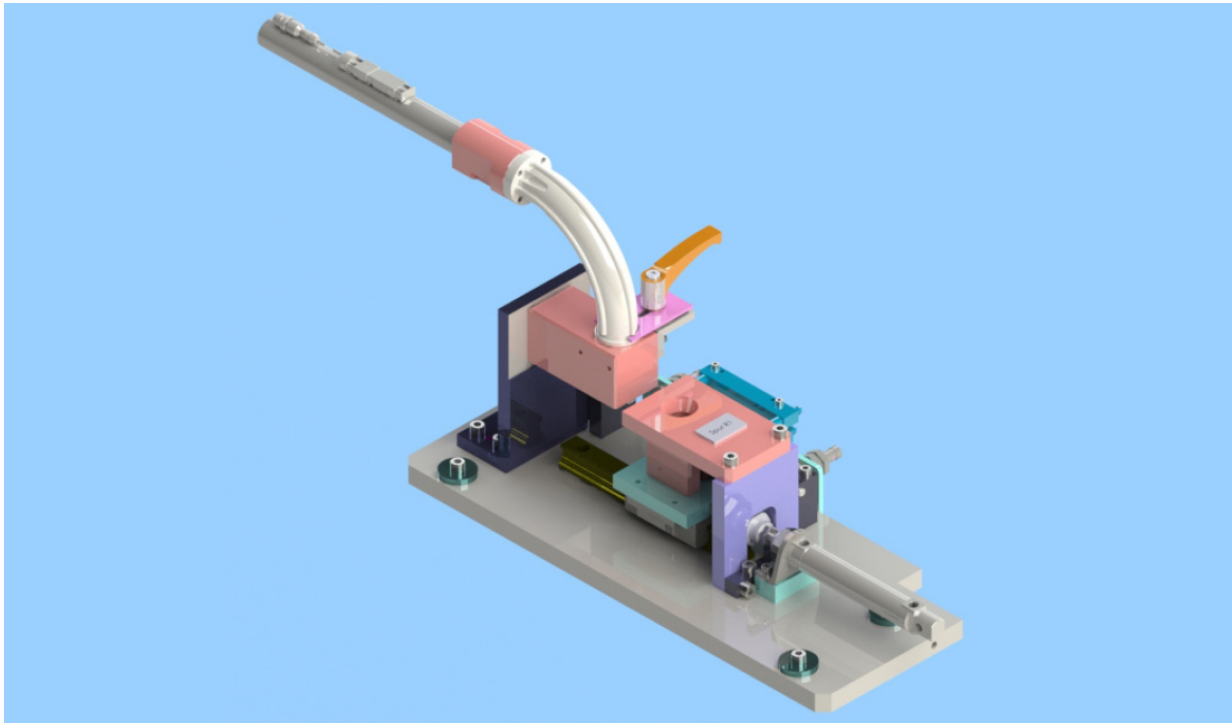
## Interception unit with provision



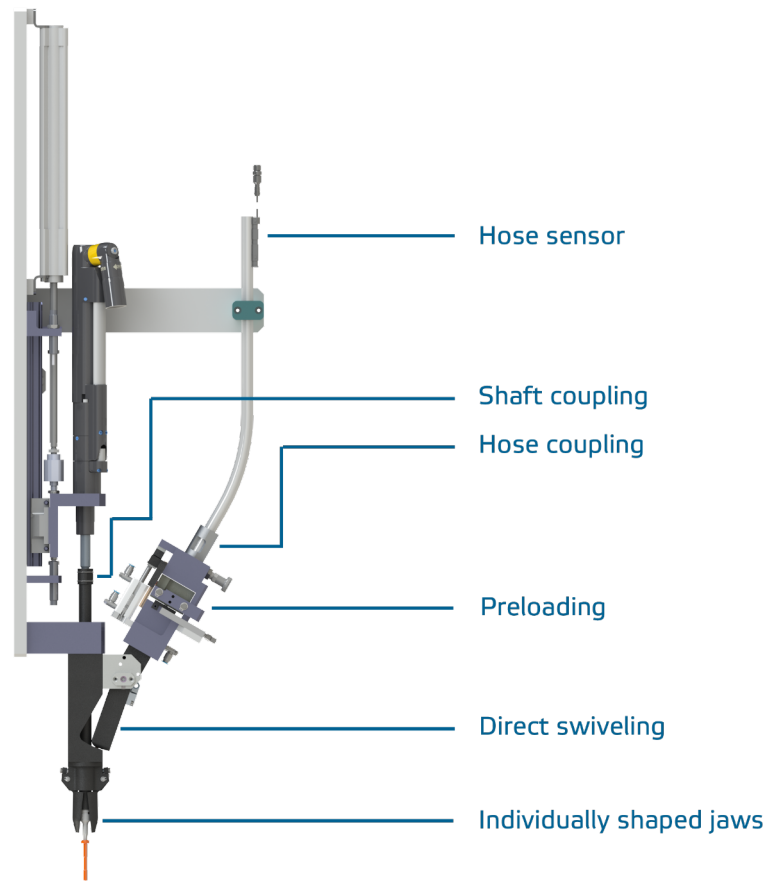
- Interception units mounted on stands
- Holding systems with shim plates for manual adjustment of the staging position
- Pneumatic clamping unit to prevent radial rotation
- Query: Screwing tool engaged?
- Discharge station with N.I.O. screw connection
- Easy to maintain and low-wear



## Catch units



## Catch and plug unit for screws

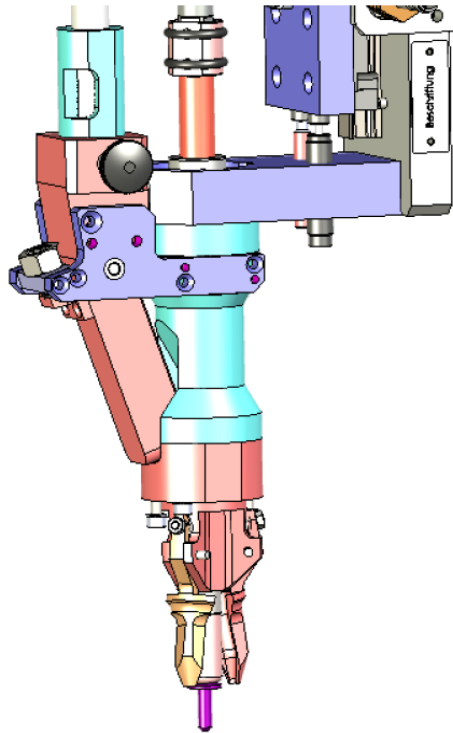


## Interception unit with provision

- Sturdy base body
- Hose connection coupling for round hose, with quick-release fastener
- Continuous blowing channel, hinged for maintenance purposes
- Screw shaft (internal or external hexalobular )
- Flange/adaptor plate prepared for attachment of all screw drives
- Optionally with vacuum or magnetic nut
- Optional preloading for shorter cycle times, with dirt brake if required
- Shaft coupling for quick tool change
- Direct pivoting for shorter cycle times
- Individually shaped jaws for adjustment to individual screw type and screw location



## Variants of catch and plug systems



### Screws - Screw units with magnet or vacuum

#### Tool:

- Nut
- Torx bit
- Screws with Precote
- Screws with Loctite

#### Cycle time:

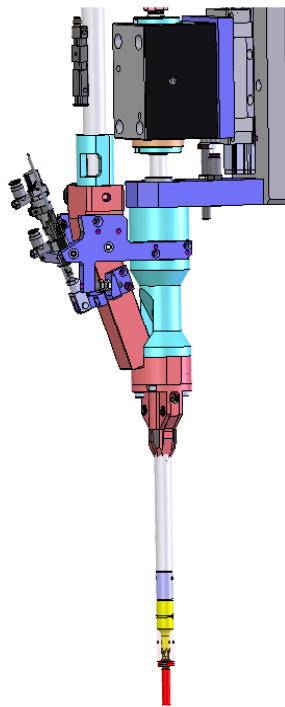
- Min. 2.8 s + screwing time

#### Search run for tool engaged:

- Without

Variable mouthpieces adapted to the screw location

## Variants of catch and plug systems



### Screws - Screw units with magnet or vacuum

#### Tool:

- Torx bit (not hexagonal !)
- Screws with Precote
- Screws with Loctite

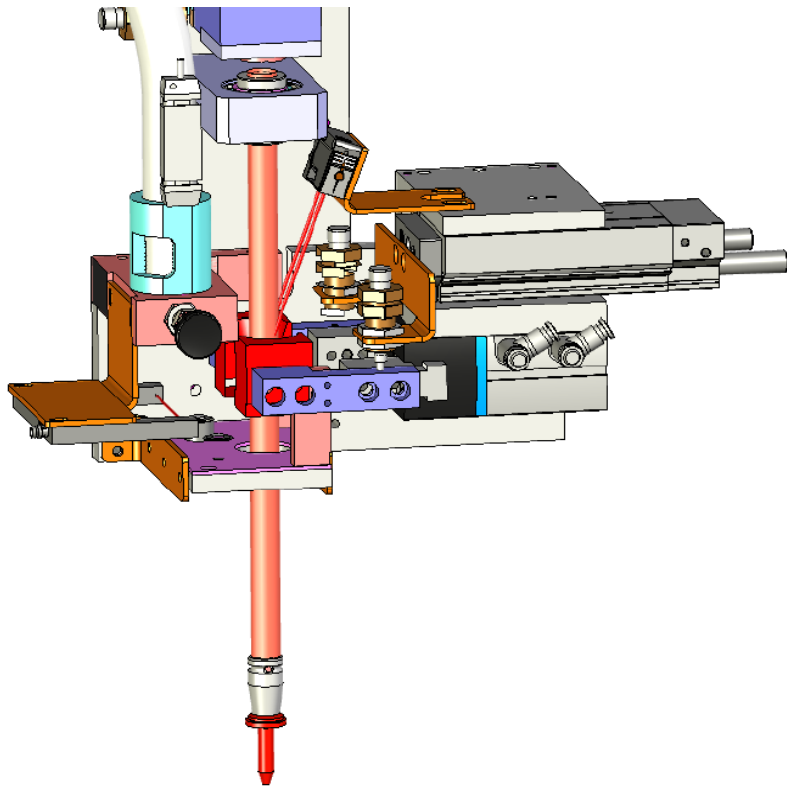
#### Cycle time:

- Min. 2.8 s + screwing time

#### Search run for tool engaged:

- With

## Variants of catch and plug systems



### Screws - Screw units with magnet or vacuum

#### Tool:

- Nut
- Torx bit
- Screws with Precote
- Screws with Loctite

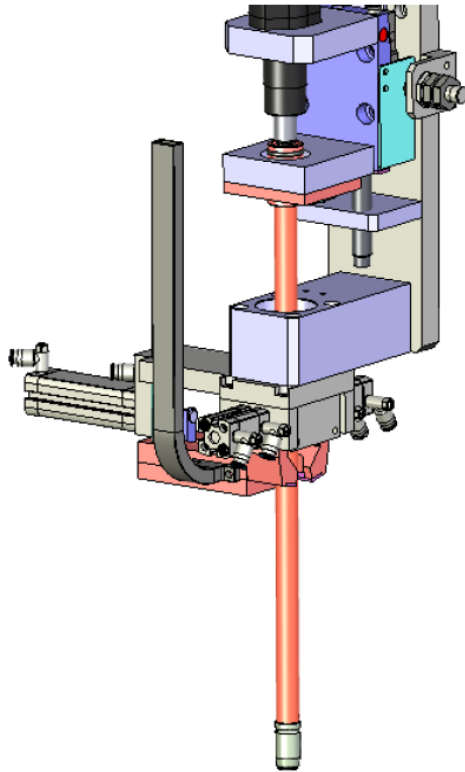
#### Cycle time:

- Min. 4.3 s + screwing time

#### Search run for tool engaged:

- With

## Variants of catch and plug systems



### Screws - Screw units with magnet or vacuum

#### Tool:

- Nut
- Screws with Precote
- Screws with Loctite

#### Holding system:

- Magnet
- Vacuum

#### Cycle time:

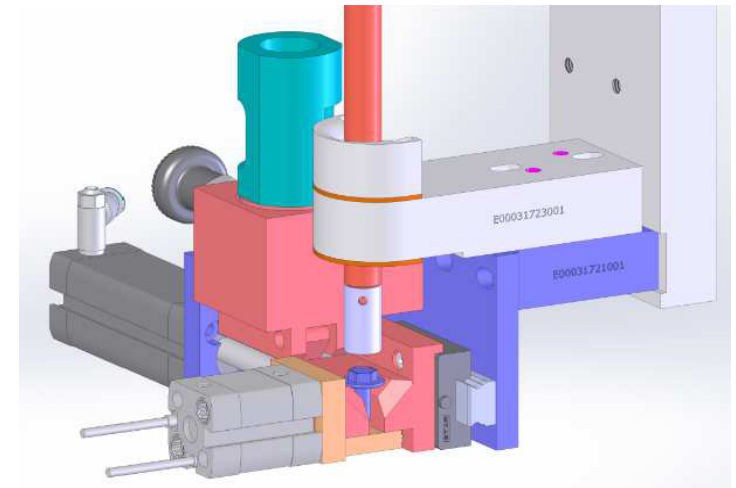
- Min. 4.3 s + screwing time

#### Search run for tool engaged:

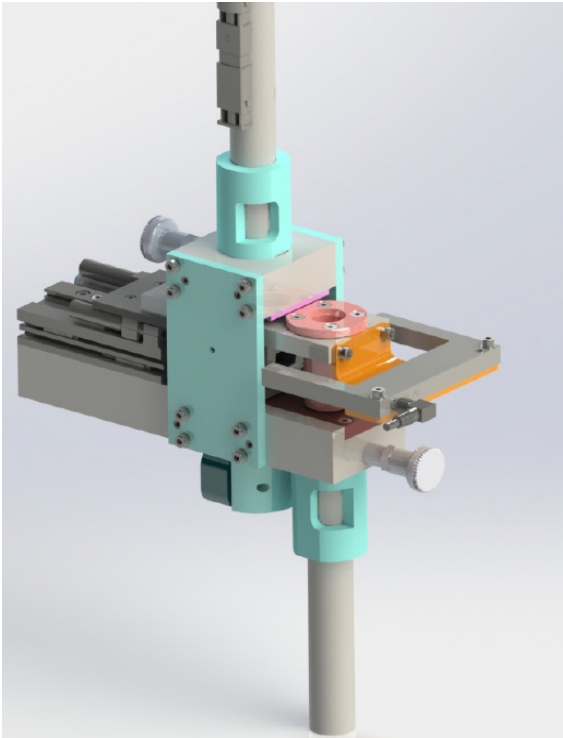
- With

# Options

- Horizontal version
- Version from below
- 2-stage screwdriver slide
- Special mouthpieces
  - Magnet
  - Vacuum
  - Special solutions
- With soft start value with Safety module
- Installation space for customer-provided transducer
- Pneumatics according to customer agreement
- Screws with Precote or Loctite



## Preloading with particle airlock



- Preloading for shorter cycle times, with particle sluice if required

## Stationary transfer to screw plug units

The intermediate stop with particle look is mounted separately from the plugin and screw units on a stationary stand.

Necessary if the field of movement for blowing directly into the hoses is restricted.

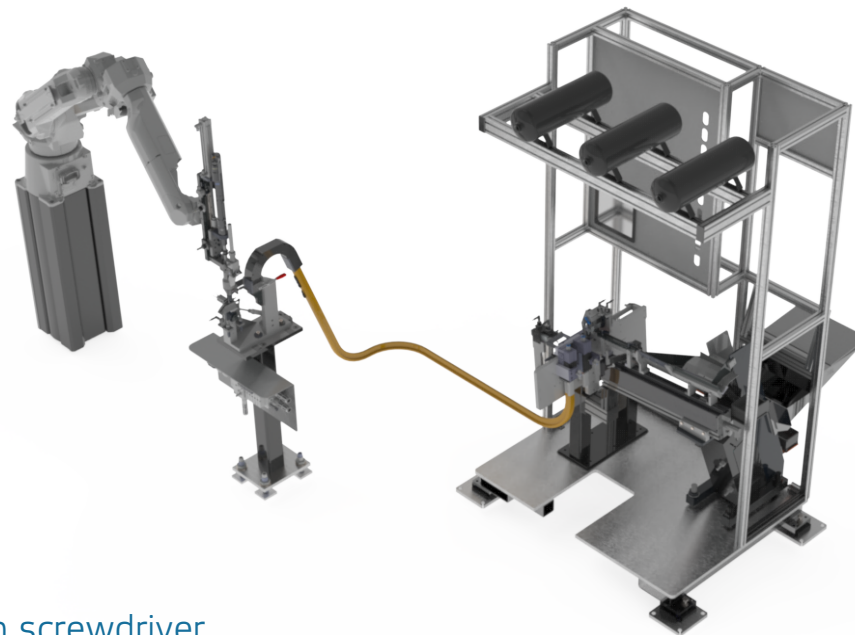


## Hoses, special profiles



## Examples

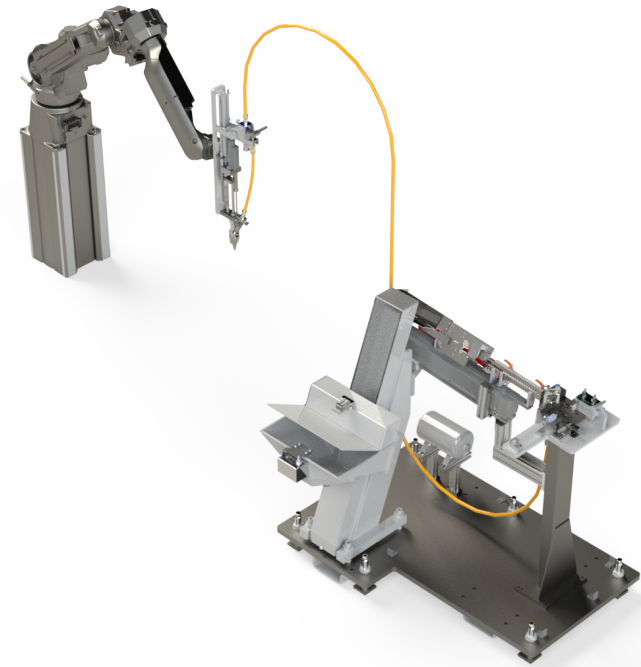
Feeding systems with catch and transfer station



Advantage: Max. Freedom of movement for the robot with screwdriver

## Examples

Feeding systems with screw spindle unit



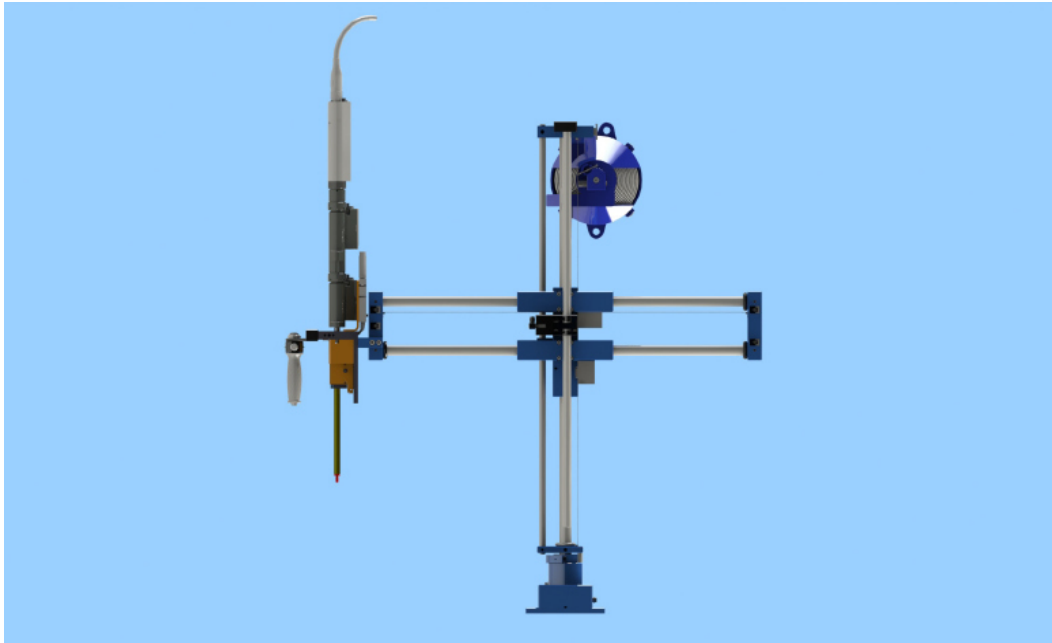
Caution:

Freedom of movement is restricted.

Working range within approx Ø 2m depending on the hose installation (screw length) and hose flexibility

## Examples

Catch and plug-in unit, hand guided



## CONTACT



Integrated Feeding Systems

Am Weißen Kreuz 5  
D - 97633 Großbardorf

Tel.: +49 (0) 9766 / 94 00 98 - 0  
Email: [sales@ifsys.com](mailto:sales@ifsys.com)

[www.ifsys.com](http://www.ifsys.com)

IFSYS Integrated Feeding Systems GmbH - Österreich

MTP-Montagetechnik GmbH  
Ing. Harald Grobbauer  
Wickstrasse 6/3  
A - 4655 Vorchdorf  
Tel.: +43 / 7614 / 93030 - 12 [h.grobbauer@mtp.at](mailto:h.grobbauer@mtp.at)

IFSYS Integrated Feeding Systems GmbH - Frankreich

Serge Helfer  
8, Rue des vignes  
F - 68460 Lutterbach  
Tel.: +33 (0) 3 89 52 59 77 [serge@helfer.fr](mailto:serge@helfer.fr)

IFSYS North America, Inc. - North America

2240 Hwy 292  
Inman, SC 29349 [www.ifsys.us](http://www.ifsys.us)  
Tel.: +1 .864. 472. 2222 [info@ifsys.us](mailto:info@ifsys.us)

IFSYS China - JOPP Technology (Suzhou) Co., Ltd.

3# plant, No. 96 Weixi Road  
Suzhou Industrial Park  
215122 Suzhou, Jiangsu Province  
Tel.: +86 512/6936 - 2799 [china@jopp.com](mailto:china@jopp.com)