

# ILS loading system REX automatic lathe unloading system

Fully automatic unloading of workpieces – especially for opposed spindle turning centers

## **Axial access to the finished part**

The ILS-REX automatic unloading system works with a particularly fast but precise unloading technique.

As an extension of the lathe spindle, a gripper tube is moved to the workpiece from side B of the lathe. The finished part is then removed from the chuck by a gripper component (see overleaf) and placed on the transfer table.

In opposed spindle turning centers the finished part is removed through the bore of the opposed spindle.

## **Simultaneous precision unloading**

The extraordinary advantages of the ILS-REX unloading machine can also be used on single-spindle lathes without tailstock. The unloading functions are carried out simultaneously to the turning process resulting in practically no non-cutting times. And last but not least, the workpieces remain free of impact marks.

## **Drive and controls**

Servo drive with independent adjustment of feed force (torque) and feed speed (motor speed) enabling precision workpiece transfer.



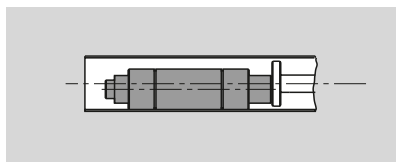
# ILS-REX automatic unloading machine –

improving productivity through high-speed workpiece removal

## Workpiece reception components

Three different types of standard gripper components guarantee quick and correct unloading.

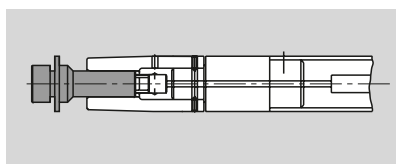
The essential factors in deciding which is the right gripper component are the length of the workpiece, its shape and the planned process of workpiece transfer.



### 1. Unloading tube

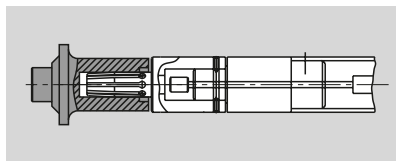
A universal component for short to extremely long workpieces. Also suitable for finished parts that can be removed from the lathe spindle or chuck simply by being pushed by the next workpiece.

The unloading tube is standard equipment.



### 2. Clamping sleeve

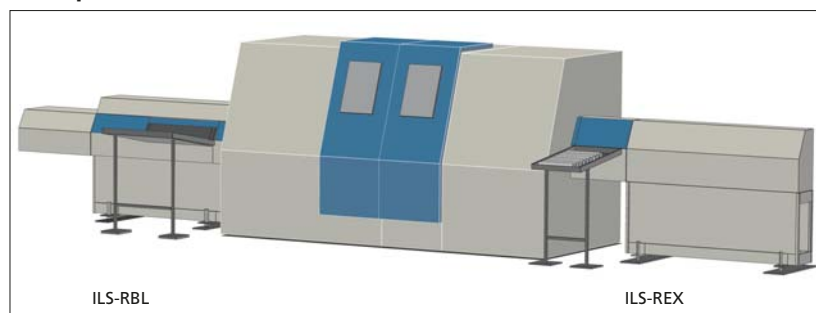
For maximum diameter workpieces with clamping possibilities.



### 3. Internal clamping device

For drilled workpieces, custom-made by BREUNING to match specific workpieces.

## Example



## Automated transfer

Simple workpieces are transferred to a roller gear table storage magazine. Appropriate horizontal indexed conveyors are available for complex shapes and delicate parts.

Further transfer of the parts can be automated by linkage to other handling machines and magazines. BREUNING is your ideal system partner for the design and application of fully automated peripheral equipment in this field.

## Type versions

### ● ILS-REX 7205

Max. workpiece diameter 72 mm. Transfer table from 500 to 1200 mm in 100 mm steps available as standard equipment. Longer unloading stroke and larger magazines for longer workpieces as required.

### ● ILS-REX 10005

Max. workpiece diameter 100 mm (oversize 120 mm). Unloading routes and lengths as for REX 7205.

## Take advantage of our experience

BREUNING has specialised exclusively in the manufacture of superior material feed systems for four decades.

Our comprehensive range of standard equipment contains all you need for efficient turning operations – from simple bar tender to our fully automatic, state-of-the-art ILS system.

Often it is our REX automatic unloading system that gives that extra edge needed to reduce cycle times. Feel free to consult us for a specification without any obligation whatsoever.

If you are interested in further information on individual products, please call or fax us.

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