Conveying and Driving

With RUD’s special solutions

No matter whether you deal with complete bucket elevators, chain conveyors or chain drives, RUD will solve your conveying tasks leveraging its extensive experience with a wide variety of bulk materials such as cement, fertilizers, stones & soils and many more.

As a technology leader, RUD provides components and complete solutions based on round steel and FORKY chains for power generation with coal and biomass, as well as in the field of recycling. No matter whether you are a company specializing in material handling systems, de-ashing or cleaning scrapers, RUD CRATOS has the right solution for you.

RUD is the original equipment manufacturer for the world’s leading hoist specialists. In addition, we offer a variety of round steel chains for different industries.

For more information on hoist chains for motor-driven and manual hoists, also request our HOIST CHAINS catalogue.

RUD PORTAL: www2.rud.com

Test certificates for hoist chains can be quickly and easily downloaded and archived!
As the owner of a hoist, you are required to continuously monitor the wear and tear on your hoist chain in accordance with DIN 68515 or ISO 7592. This is to ensure optimum operational safety and thus avoid accidents with unforeseeable damage.

A chain may have reached its service life end due to wear of its single or multiple link pitch attachments; wear of the wire diameter, and/or plastic deformation of its chain links due to overloading.

We at RUD have developed a tool - a limit gauge - for you. With this tool, you can check a chain multiple link pitch attachment and determine whether the chain is worn.

Our limit gauges can be adapted to a manufacturer’s different hoist types (each hoist manufacturer has its own chain sizes). Therefore, we need to know the hoist manufacturer and if the hoist is manual or motor-driven.

Our tool is handy, lightweight and perfectly packed, making it easy for you to test directly on the hoist. You can measure wear on the unloaded and loaded chain strands.

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**Our RUD limit gauge consists of**: an aluminum strip with guide holes for the measuring pins as well as locking holes for the locking studs attached to the measuring pin.

- The size of the chain to be tested – \( d_n \times t \) – is marked below the guide holes.

The two galvanized measuring pins provided with locking studs are located, together with the limit gauge, in a high quality softshell bag.

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Checking the end of service life via an external gauging (gauge length \( 11t + 2d_n \))

1. One of the two measuring pins is to be inserted into the first guide hole.
2. Insert the second measuring pin into the respective guide hole of the chain which size is to be tested.

\[-\text{GAUGE LENGTH } L_0 = 11t + 2d_n\]

**Can you insert the measuring pins into the chain if the size is over \( 11t + 2d_n \)?**

- If so, the chain is still in good condition and can continue to be used.

- If a chain with an over \( 11t + 2d_n \) multiple link pitch attachment has undergone a pitch attachment increase due to wear or distortion by more than 2% (motorised hoist) or 3% (manual hoist), then the measuring pins of the limit gauge can no longer be inserted into the chain. The chain has reached its service life end and must be replaced.