Efficient and sustainable conveying through the latest technology from RUD

- **Minimum wear**
  - Particularly weather resistant wood (renewable resource)
  - High strength properties
  - Due to high durability in water or very wet underground perfectly suited for detached facilities
  - Due to high abrasion resistance (minimum wear on the scraper floor)
  - Calibrated double-strand round steel chain enables smooth run of the conveyor
  - Drive and reversion through pocket wheels

- **No problem with corrosion**
  - Special acid resistant sidewall protection on PE basis
  - High toughness
  - Good weather-resistance (very low water absorption)
  - Temperature-resistant
  - Sidewall plates replaceable in case of damage
  - Minimum wear

- **Electricity efficient drive**
  - Electricity saving through efficient doublestrand scraper floor conveyor technology
  - Low power requirement of as little as 3 kW.
  - Installed electric power < 12 kW
  - All energy used in the direction of movement; none wasted as with moving floor systems

<table>
<thead>
<tr>
<th>kW / m³</th>
<th>2</th>
<th>1.8</th>
<th>1.6</th>
<th>1.4</th>
<th>1.2</th>
<th>1.0</th>
<th>0.8</th>
<th>0.6</th>
<th>0.4</th>
<th>0.2</th>
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</thead>
<tbody>
<tr>
<td>RUD scraper floor</td>
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<tr>
<td>Moving floor in range of horizontal screw</td>
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<tr>
<td>Vertical screw in range of</td>
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<tr>
<td>Pushing floor system in range of</td>
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</tbody>
</table>

*) Comparable conveyor with approx. 30 m³ volume.
Experience

- Thanks to our decades of experience in supplying fuel to and removing ash from biomass systems, incinerators and coal-fired power plants, as well as recycling and waste processing facilities, we offer only coordinated, proven components in durable, self-contained systems.

- Our components are highly wear-resistant and have withstood the test of a variety of uses.

- We also offer comprehensive engineering services to help you develop a more effective and resilient system.

- More informations: www.youtube.com/user/RUDKetten

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### RUD ECO-DOS sizes

<table>
<thead>
<tr>
<th>Designation</th>
<th>Volume [m³]</th>
<th>Own weight [t]</th>
<th>Length [L]</th>
<th>Width [W]</th>
<th>Height [H]</th>
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<tr>
<td>ECO-DOS 12</td>
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<td>4.5</td>
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<td>3.1</td>
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<td>5.7</td>
<td>7.5</td>
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</table>
ECO-DOS

ENERGY SAVING SUBSTRATE FEEDER
EVEN FOR DIFFICULT SUBSTRATES
RUD ECO-DOS
Energy saving substrate feeder for biogas plants

Operator-friendly control system
- Control cabinet
- Emergency stop
- Signal lights
- Current measurement of drum
- Frequency converter for scraper floor 1.1 kW
- Drum with soft starter
- Integration of weighting equipment
- PLC control
- Touch panel

Modular construction
- The combination of a drag chain and two large-volume dispensing drums ensure regulated substrate input with optimal control options.
- Various options for connection to feed screw conveyors.
- Can be filled from the side and from behind at any time, even if the distribution system is partially emptied.
- Additional superstructures available.

Simply assembly
- Modular structure; can be expanded at any time and is easy to repair.
- Positioning the pre-assembled dosing systems with a crane.
- Suspension equipment is provided by RUD.

Exact dosing through precise weighting equipment
- Weather resistant weighting cells.
- Weighting computer.
- LED scale optional.
- Compatible with every control system.

Insensitive dosing drum
- Reliably loosening of various kinds of substrate.
- Therefore small risk of blockages.
- Even for difficult substrates like cattle dung and long grass.
Your advantages at a glance

1. Experience
   - Dozens of years of extensive experience in chain and conveyor technology
   - Proven in various applications worldwide

2. Operator-friendly control system
   - Intuitive touch panel
   - Signalling of malfunctions, filling level information
   - Various operating modes

3. No corrosion
   - Special acid resistant sidewall protection
   - Weather resistant wooden floor
   - Robust, self cleaning round steel chain

4. Wooden floor
   - Renewable resource
   - No corrosion
   - Minimum wear
   - High durability

5. Modular structure
   - Can be expanded at any time
   - Single modules exchangeable in case of damage
In case of damage of the drums, complete module can be replaced. As a result short outages plant availability assured at any time.

- Minimum Electricity needed < 12 kW
- Only 0.3 kW/m³ (36 m³ conveyor)

Highly robust conveying system
Proven reliability in numerous applications
Suitable for many conveyed materials
Calibrated and paired chain strands
Minimum wear

Comfortable electric control unit with cycle and weight dosing
Weighting equipment compatible with every control unit

Replaceable double drum

Exact dosing

Electric saving drive

Round steel chain

Improved fermentation process

Reliable loosening of different substrates
Even for difficult substrates