

GERMAN QUALITY
AND ENGINEERING



 **RUD**[®]



**FERTILISER AND
SOIL SOLUTIONS**

The RUD Difference

For over 140 years The RUD Group, founded in Germany, have offered unsurpassed quality and excellence in steel chain technology. In Australia, RUD has been a trusted partner in the delivery of conveying and material handling solutions for fertiliser industries since 1984. German engineered reliability, delivered by local experts, inspiring complete confidence- The RUD Difference.

Safety in Design

Our extensive experience in safe material handling system design ensures that you receive a solution that is perfectly aligned with your safe transportation and processing needs. Innovative low maintenance conveyor systems provide safer performance and controlled processes, resulting in effective processing of materials.

Continuous Performance and Reliability

With extensive experience in bulk conveyance of fertilisers, cement, ash and other special bulk materials, our system components are designed to keep on working- no matter the conditions. From transporting limestone from the mill or conveying salts from the mine to the surface, our conveyor systems are robust and are optimally designed for the toughest of conditions.

Efficiency in Productivity

RUD prides itself as a sector partner through its delivery of smart system design through to componentry and modules, focussed on helping to maximise efficiency in production and processing environments through strict quality assurance and ongoing innovation.

Belt Bucket Elevators

APPLICATIONS



CEMENT



FERTILISER



LIMESTONE



MINERAL

SPECIFICATIONS

Size

(Bucket Width)
250 to 1250 mm

Capacity

0-1200 tonne
per hour

Height

Maximum 70m

MAXIMUM CAPACITY, TOUGH APPLICATIONS, PROVEN DESIGN

RUD's belt type bucket elevators are reinforced with either textile or steel inlays to ensure the easy transportation of conveyed material with maximum performance and efficiency.

Reliability

- Quality components reduce downtime.
- Modular drive drum and lagging.
- Low wear from matched drive.
- Uniform belt loading across full drum width.

Flexibility

- High temperature rubber compositions suitable for a range of applications.
- Bucket holes cut by water jet for accurate assembly.
- Component spares packages available for retro-fit.

Productivity

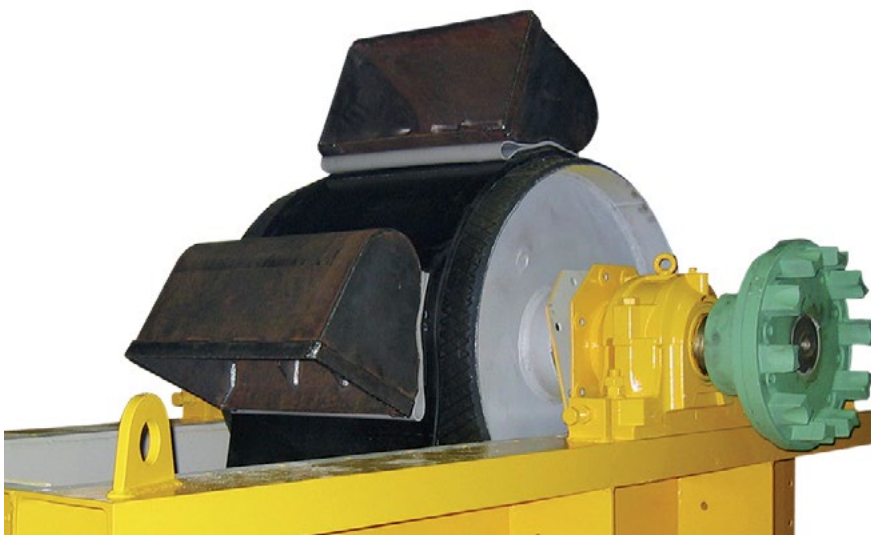
- Automatic belt tensioner.
- Low pretension forces for maximum efficiency.

Durability

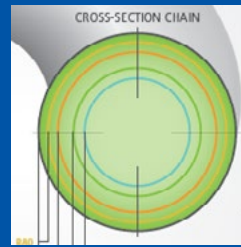
- Stability in belt provides long life.
- Tensile strength of belts provide low elongation.
- Steel cross bracing provides transverse stability.

Serviceability

- The friction lining is easily exchangeable when worn.
- Drive drum easily installed or removed for servicing.
- Segments of drum are re-usable.
- Endless connection by hot vulcanisation or RUD clamp system.
- Access doors provide easy inspection.



Bucket Elevator Mounting Attachments

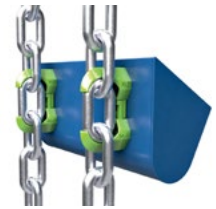


RUD Highly wear resistant round steel link chains provide case hardened surfaces for long life.

RUca Bucket Attachment

RUca is the alternative for DIN bucket attachment systems for round steel bucket elevators. Due to the smooth interaction with RUD chains and RUD chain connectors, RUca always provides full engagement, reducing chain wear and providing maximum protection against breakage. It is an optimal replacement for existing DIN bucket holders in round steel chain bucket elevators and the first choice when installing new systems.

- Suits system with DIN shackles
- Highly flexible application- is suitable for endless chain strands, runs over uncoated wheels and can be mounted quickly
- Higher component break resistance
- Designed for use with 20 x 100 RUD chain



SYSTEM 2win

Endless chain strands can also be used in the 2win double-link attachment system. The attachment runs on toothed or non-toothed wheels. The system is characterised by the speed at which it can be mounted and dismantled with-out specialised tools. The 2win System replaces all established bucket back wall attachments in the market.

- Suitable for replacing all the DIN bucket attachments in round steel link chain bucket elevators and providing 3 link connection
- For use in bucket conveyors with up to 60 m height
- Endless chain strands can be used with more stable bucket movement
- Short assembly and disassembly times, without special tools
- Bucket attachments run over sprocket wheels and plain wheels



SYSTEM 65

System 65, with its multiple-link attachment, is robust, highly wear-resistant and easy to mount. The buckets can be replaced easily. This system is suitable for heavy loads and high conveying speeds. This system is particularly suitable for heavy operating conditions in the field of bucket elevators. Robust and highly wear-resistant, the System 65 optimises loading processes with easy assembly and disassembly of buckets on the chains.



Central Type Chains for Fertiliser

RUD provides quality forky chain assemblies for bucket elevators for use in ammonia nitrate, biomass and other conveyed products where the use of an alternative chain with forged links should be considered. These customised conveyors require a direct replacement for use in existing conveyors and are available as a cross referenced RUD forky component set including sprockets and tail wheels for existing central type of bucket elevator chain and also available as an Engineered retrofit for an existing system. RUD forky links offer enhanced calibration and paraxial alignment to provide the accurate pitch measurement required in these systems as an addition to our standard RUD central chains.



Spillage Drag Conveyors

APPLICATIONS



SPECIFICATIONS

Size

RUD Hardened chain sizes (mm)
10 x 38 19 x 75
14 x 50 22 x 86

Capacity

0 to 5 tonne per hour

Height

From 230mm

Less Maintenance, More Uptime

RUD spillage chain conveyor systems provide a robust, compact and efficient solution for low profile, reduced access applications. Our heavy duty hardened-steel chain systems require less maintenance and enhance workplace safety. The system can be fully enclosed to allow dust-free and watertight transport of bulk material, efficiently.

Recovers valuable product

- Recycles waste material back into the discharge chute
- Avoids material build up against belts or feeders causing surface wear
- Eliminates stockpiles and build-up of waste
- Better plant cleanliness and automated removal
- Segregates spillage

Built to Keep on Turning

- Long lasting hardened steel chains
- Highly wear resistant components
- Minimal adjustment required
- Zero lubrication necessary

More Efficient

- Highly efficient conveying system
- Reduced downtime through simple maintenance
- Compatible with full submersion environments
- Accurate alignment with close tolerances
- Perfect for areas with access issues

Safety First

- Reduced accidents as access under moving conveyors is no longer necessary
- No need to cleaning under conveyors
- Enhanced compliance with legislative requirements

Simple Maintenance

- Fast replacement bolt-on wheel tooth segments
- Easy access drive components
- Clearly visible wear indicators

Easily Adapt to Any Application

- Easy to relocate modular design
- Full variable conveyor length
- Low profile height for under belt or apron systems
- Plug-in scrapers available in various pan widths
- Custom scraper designs for different material



RUD spillage conveyor is at same angle and width and discharges into the chute.



Drag chain systems remove dust, and collect the product for further processing or storage.

Chain Driven Belt Feeder Conveyors

APPLICATIONS



ENERGY



MINERAL



CEMENT



SOIL &
CONSTRUCTION
WASTE



WASTE
HANDLING

SPECIFICATIONS

Size

RUD Hardened
chain sizes (mm)

19 x 75

22 x 86

Capacity

1-2.4 Tonne per hour

Height

2300 mm

Greener Processing, Any Application, Safety First

RUD Chain Driven Belt Feeder Conveyors offer a more efficient solution for processing all types of material. Our robust combined belt and chain drive system has been engineered for maximum throughput, less downtime and longer life. Reduce your environmental impact by processing solids faster with complete safety, control and confidence. Our Belt Feeders can handle even the most hazardous waste applications with German engineered precision.

More Efficient

- Space saving low profile design
- Compatible with low clearance environments
- Reduced downtime through our simple design
- Lower thermal energy loss
- Completely waterless operation
- Allows loading from truck or mobile plant
- Stores the product then elevates to the discharge position in one process

Simple Maintenance

- Fast-swap modular component for reduced downtime
- Easy installation for quick service times
- Reduced maintenance cost as no chain lubrication necessary

Easily Adaptable to Any Application

- Compatible with our reduced friction edge-roller system
- Custom inclined angles available to suit existing plant layout
- Suitable for horizontal and inclined operations
- Perfect for very abrasive or high temperature material

Built to Keep on Turning

- Long lasting heat-treated components
- Wear resistant long-life design
- German engineering
- Highly calibrated components and plates ensure accurate, efficient movement



RUD unloading ramp system for truck unloading



RUD unloading ramp system for truck unloading into the conveyor.

TECDOS

SPECIFICATIONS

Range and WLLs

TEC 6 (5.2 x 15mm)-6kN

TEC 12 (7.2 x 21mm) – 12kN

TEC 25 (10 x 28mm) – 25kN

TEC 43 (13 x 36mm) – 43kN

TEC 65 (16 x 45mm) – 65kN

TEC 140 (23.5 x 66mm) – 140kN

TEC 260 (32 x 90mm) – 260kN

Telescopic Drive Applications for low maintenance and continued performance

RUD's TECDOS driven telescopic chutes offer a low maintenance solution in the toughest environments. RUD's TECDOS chains offer high wear and corrosion resistance. The innovative design of TECDOS components provide flexible and customisable solutions, suited for both new chutes and the refurbishment of existing equipment.

Simple Maintenance

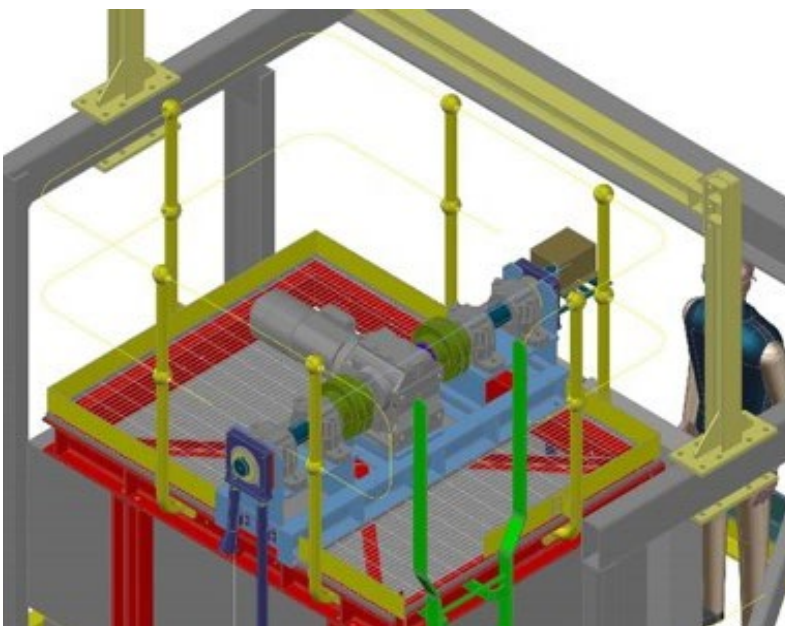
- TECDOS chains can be easily inspected
- The chains can be operated without lubrication.
- This also eliminates the risk of contamination due lubrication.
- The drives are fitted with maintenance free bearings.
- Designed for easy of replacement
- Compact wheel dimensions

Robust design

- TECDOS drives offer a modular and compact solution
- Calibrated load chain allows for controlled and accurate movement
- TECDOS is ideal for when operating in dusty environments.
- Simple design makes it easy to incorporate into new and existing designs
- Zinc coated chains improves corrosion resistance

More Than Just Chutes

- TECDOS range of components can be used horizontal, vertical, and rotational movements
- A wide range of sizes allow for a wide range of applications
- Can be fitted with a range of lifting and lashing components
- Can be customized to suit customer requirements



Teccdos Pi Drive used to lift and lower telescopic chute.



RUD Your Complete Solution Provider

Engineering Services

RUD's team of CPEng/RPEQ qualified engineers can oversee all facets of design, manufacture, testing and certification to deliver cost effective and practical solutions to engineering problems.

Specialties include:

- Product Certification
- Load Restraint Design and Service
- Lifting System Design
- Major Inspections, testing and commissioning



Lifting and Lashing Systems

RUD is a world market leader for lifting and lashing points for multi-directional loading.

- A full range of over 600 tested and certified lifting points from .05t to 100t Working Load Limit.
- ICE Grade 120 Lashing systems, ideal for heavy transportation sector, especially for securing loads and machinery or speciality loads requiring certification.



Heavy Vehicle Maintenance

Endurequip Hoists offer a durable, and highly portable solution for lifting all types of heavy vehicles.

- Our Australian Made hoist systems can be configured to safely lift vehicles up to 60 tonnes with ease.
- Simple electric design provide increased reliability and lower maintenance costs
- Product Life expectancy of 25 years providing excellent return on investment.



Tyre Protection and Traction Chains

RUD Tyre Protection Chains protect the tyre treads and sidewalls on wheeled machinery from damage and sudden-death failure.



Waste and Recycling Bins

RUD is the exclusive distributor of Glasdon Bins throughout Australia and New Zealand- designed to manage recyclable material efficiently.



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