

RUD Trough Chain Conveyor Systems for Bulk Materials Handling

RUD Chains Ltd manufacture and supply a range of conveyor and drive systems to the bulk materials industry, they design and fit complete conveyor and drive systems, such as bucket elevators and chain conveyors for bulk materials handling.

Trough chain conveyors also known as drag chain conveyors are suitable for dust free, horizontal and slight inclined transportation of bulk materials; the system combines a high wear and heat resistance with an option of multiple inlets and outlets.

The trough chain conveyor system comprises of a drive station which consists of flange or pedestal bearings, dependent of the size. Sealing is provided by grease filled, double radial shaft seals. For easy maintenance the entire drive station and inspection door can be dismantled. The drive consists of a standard geared motor unit, suitable safety clutches can be provided to prevent overloads.

The trough consists of individual, standard-length sections with connecting flanges. Hold-down rails are recommended for most of the materials to be conveyed. These prevent the material from building up and thus the chain climbing.

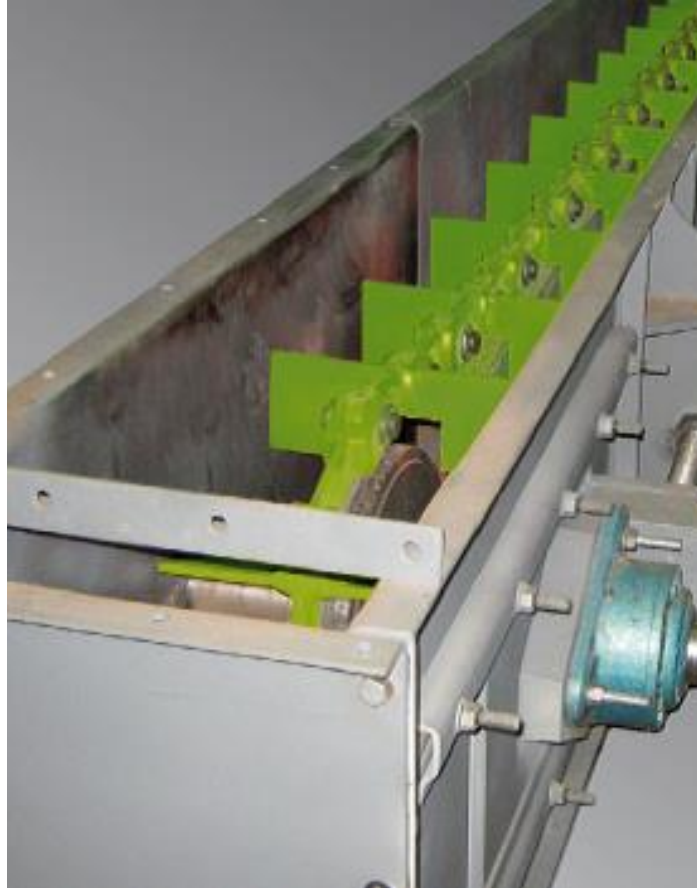
The take-up station has flange bearings to hold the take-up shaft. The shaft exit points in the housing are equipped with grease filled, double radial shaft seals. The chain take-up is generated and set by spring-loaded pressure screws.

The conveyor chains used for this system are forged, fork-sprocket chains that have been heat-treated or case-hardened. The resistance to wear can be further increased by hard surface welding. Forged link chains possess many advantages; firstly it is extremely robust and offers a high level of operational safety whilst allowing for horizontal, inclined and vertical conveying.

Trough chain conveyor systems using RUD forged fork link chain has been used to convey goods that are ideally suited for transporting powdery, grainy, flaky, dusty or fragmentary material. Examples of transported materials are cement, ash, wood chips / shavings, food, animal feed, recycled municipal waste fertiliser, gypsum and coke.

The trough chain conveyor has been used across a range of market segments from construction, chemical, agriculture and recycling industry to mills, port cargo handling, food and feed industry to name a few.

RUD offer standard and bespoke conveyor and drive solutions from design, project management to installation or service.



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