TROUGH CHAIN CONVEYOR



WUTRA
FÖRDERSYSTEME



Trough chain conveyor for heavy sodium carbonate

TROUGH CHAIN CONVEYOR

... - also referred as a redler - is primarily used to convey bulk materials. It is a very robust, low-maintenance conveying system designed for permanent operation. Alongside classic horizontal conveying, rising line layouts and conveyors with bends can be realised. Further processing stages can also be simultaneously integrated such as:

- Collection/ distribution
- Screening
- Bunker discharge
- Air cooling/ water cooling
- Conveyor lengths up to 100 m
- Conveyor capacity up to 1.500m^3/h



Trough chain conveyor drive station



Distribution conveyor for sodium bicarbonate



Potash transport for press loading; conveyor performance approx. 150 t/h

THE RANGE OF CONVEYOR PRODUCTS

... extends from powder form to bulky products with an edge length of up to 150mm. The trough chain conveyor has been used as a reliable conveyor element in the following industries for many decades:

- Soda, potash and fertiliser industry
- Cement and building materials industry
- Raw materials and biomass conveying
- Waste treatment and recycling facilities
- Power stations
- Grain and seed handling
- Chemical industry



Oil seed conveying and distribution to silos



Lignite transport



Chain link production

QUALITY FROM OUR OWN COMPANY

The drawing element - the chain - is specified according to the requirements of the conveyed product and the results of the project-related design calculation. Full internal production guarantees a high level of flexibility and adaptation to the respective conveying task. The best tensile strength and longest service life are achieved with a conveyor chain from our own production, which has been constantly developed further and tried and tested over many years.

Alongside manufacturing new products, we offer service and repair work for existing systems, including exchange of the chain system. Professional assembly and standard monitoring systems, such as an overflow indication, bulk height indicator, rotation monitor and chain break monitoring, ensure safe, permanent operation.

- Round steel chain
- Drop-forged fork chain
- Welded fork sprocket chain
- Bush chain



Round steel chain



Drop-forged fork chain



Welded fork sprocket chain



Bush chain



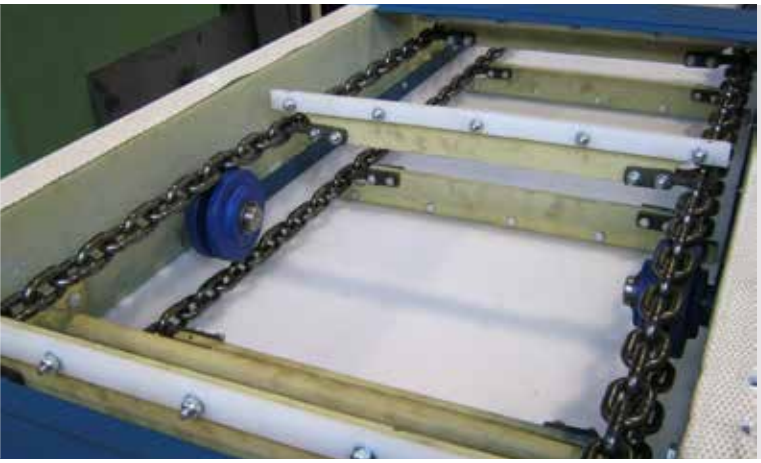
Material loop and shaft with wear protection

WEAR PROTECTION

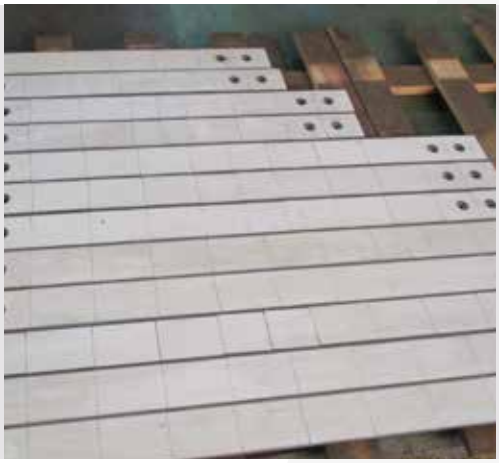
... assured a long-lasting use of **WUTRA** trough chain conveyors by high abrasive solids. The conveying of raw materials with different grain sizes causes a strong rubbing wear. This will be avoided with suitable methodes like build-up weldings or coating of the troughs with several construction materials.

For cleaning-, wear- and material flow problems we use:

- Cast basalt
- Ceramic inlays
- Different wear materials
- Build-up welding
- Plastic plates
- Protection coatings with composite materials



Plastic plates lining installation



wearing rails with ceramic layer



cast basalt inlay



Design

All components of the **WUTRA** delivery range were calculated and modified by our by out experienced staff. Using special design tools, developed in-house, assures a sate and proper operation for each single **WUTRA** unit.

Certifications:

- Quality management system ISO 9001:2015
- Certification according Atex - Directive 2014/34/EU
- EAC certificate for customs union
- Welding certificat EN 1090
- Pressure equipment directive 2014/68/EU

Service

WUTRA components can be installed and putted into operation worldwide.

Please call our experienced technicians for regular inspections and service.







Research and development

A permanent development guarantees always a high state of the art level of **WUTRA** products.

The latest scientific knowledge, based on a close cooperation with appproved research institutes, will be integrated in engineering and design of our conveying equipment.

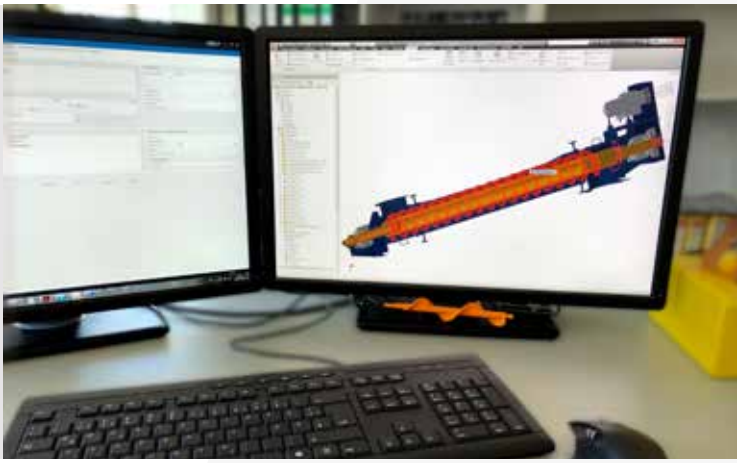
WUTRA *components*

- Screw conveyors
- Process screws
- Mixer
- Bucket elevators
- Trough chain conveyors
- Slide valves
- Way distributors
- Rotary valves
- Contract manufacturing
- Assembly/ Service

Plant construction for:

- Soda, Potash industries
- Building materials
- Raw materials/ Minerals
- Chemystry
- Recycling
- Food
- Synthetics
- Sugar industry
- Power industry





WUTRA
FÖRDERSYSTEME

www.wutra.de
info@wutra.de

+49 (0) 3425 / 81 98 0

WUTRA Fördersysteme GmbH
Niederlassung Wurzen
Industriestraße 4 - 6
04808 Wurzen

2026-46-35-de-PR-TKF
All specifications in our brochure are non-binding. Subject to technical modifications.