

# ARCEMI CONVEYING SOLUTIONS

PROCESS CONVEYORS SINCE 1983

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## PROCESS CONVEYORS SINCE 1983

**Arcemi Srl / Trento – Italy** operates in the field of Bulk Material Handling Systems since 1980 and in 2024 it has been incorporated in the **Trasmece Group** Italy – Cremona.

It engineers, manufactures, supplies and maintains conveyors of various types for process plants: high availability screw conveyors, bucket elevators, surface feeders, loading systems, chain conveyors, weighing belt feeders, belt feeders, in various versions, just to mention the main products.

New developments and customized solutions are supported by the **R&D Department of Trasmece**.

The conveyors of Arcemi Srl are installed in cement plants, steel works, plaster and fertilizer plants, waste to energy, port loading systems for ships and barges. The manufacturing and client assistance is backed by the Trasmece Group with production sites in Romania/Cluj Napoca, India/ Pune, China and Italy/Cremona. The company is specialized in customized solutions for heavy industrial use in process plants, based on the long-standing experience of the **R&D Department of Trasmece**.

### INDUSTRIES

- Agribulks
- Alternative fuels & biomass
- Cement, lime & gypsum
- Chemicals
- Fertilizer
- Foundries
- Metallurgy
- Mining & minerals
- Ports & terminals
- Power plants
- Waste incineration

### BULK MATERIALS CONVEYED

- Ashes
- Bauxite ores
- Biomass
- Kaolin
- Cement
- Clinker
- Coal
- Crushed glass
- Detergent powders
- Dolomite
- DRI (Direct Reduced Iron)
- Dried sludge
- Fertilizers NPK and PKB
- Gypsum
- Lignite
- Lime
- Limestone
- MSW (Municipal Solid Waste)
- Phosphate
- Raw meal
- RDF (Refuse Derived Fuel)
- Salt
- Sand
- Shredded tyres
- Slag
- Steel scrapes
- Sulfur
- Urea
- Wood chips
- Wood pellets



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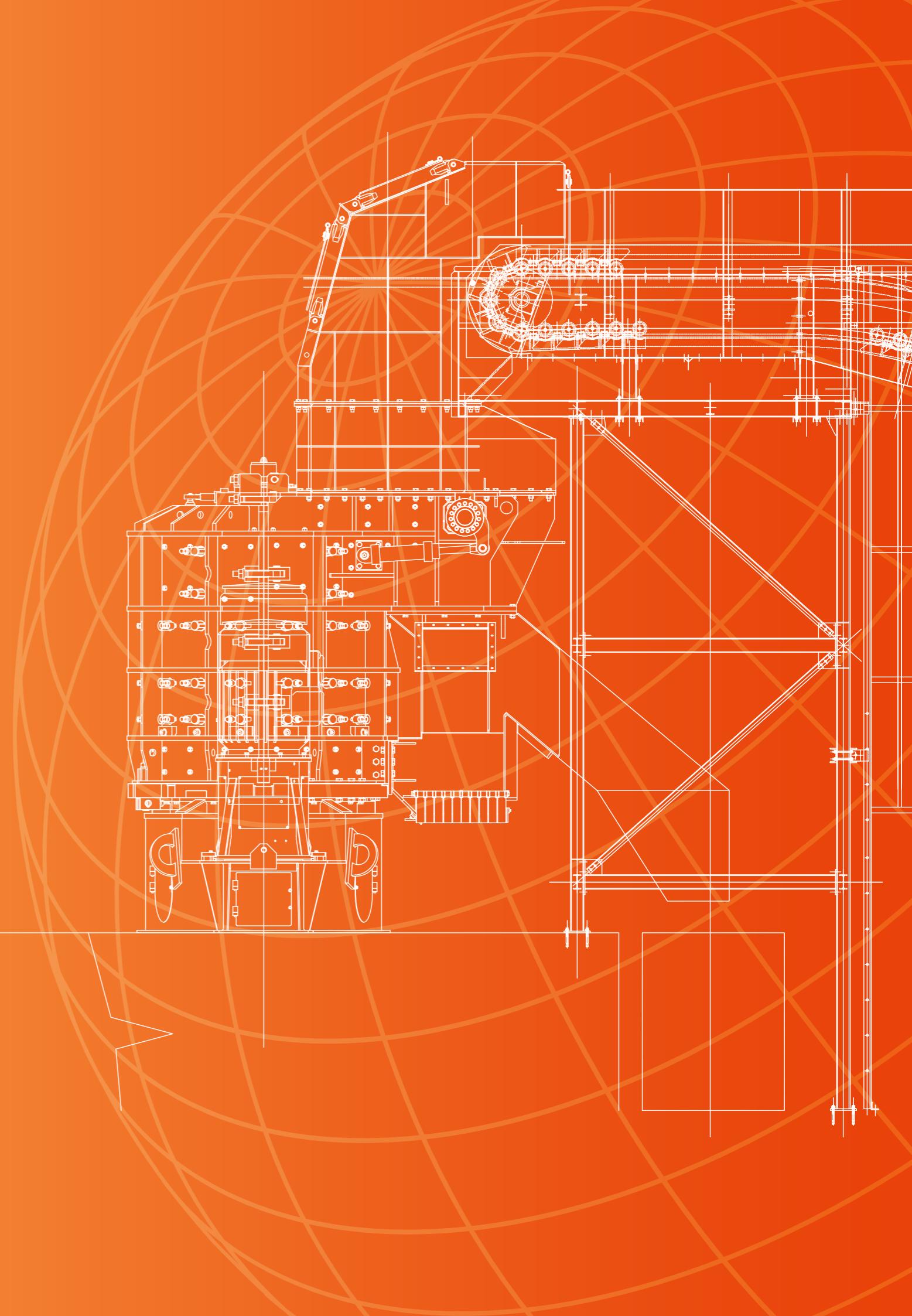
How to reach us:

a) Highway A22: Verona – München: Exit Trento Sud

b) Next Airport: VERONA, Valerio Catullo Airport

# APRON FEEDERS

01



# APRON FEEDERS

CODE AP-FEE



1.1

## DESCRIPTION

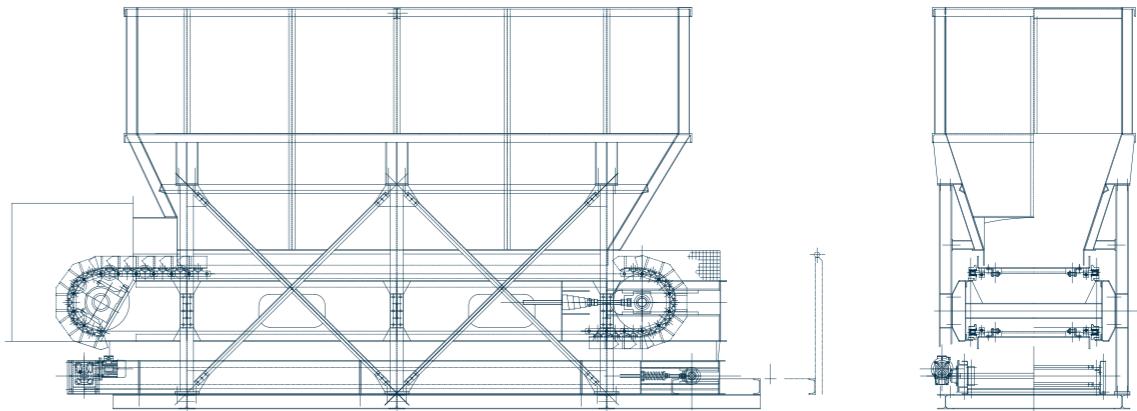
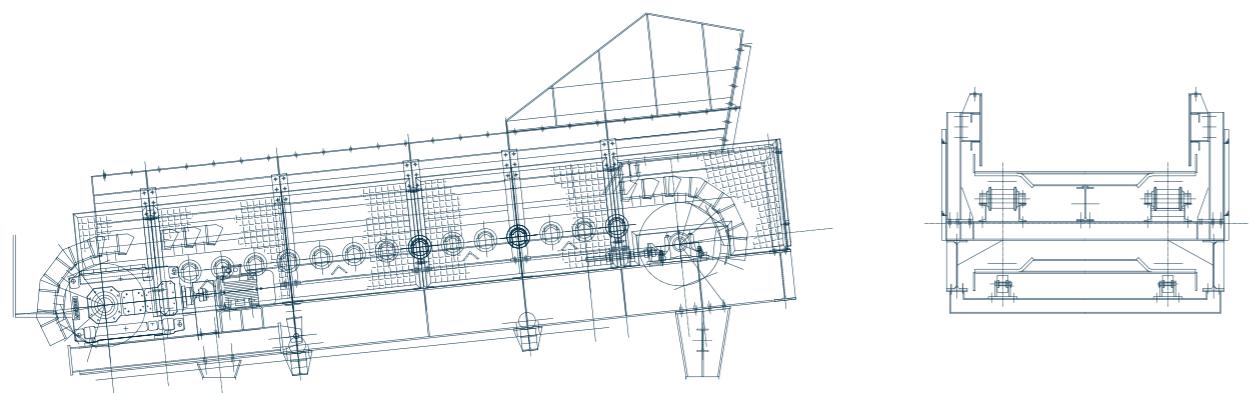
**Field of use:** feeding of even very large-sized material from hoppers/bunkers, withstanding impact.

**Technical description:** two bushed chains, pans with impact resistance, toothed sprockets with replaceable teeth, mechanical sealings between pans.

**Standard dimensions:** apron width from 800 to 3500 mm.

**Versions:** normal temperature.

**Advantages:** heavy-duty feeding system.



# SCRAP METAL CONVEYOR

1.2

CODE AP-SCR



## DESCRIPTION

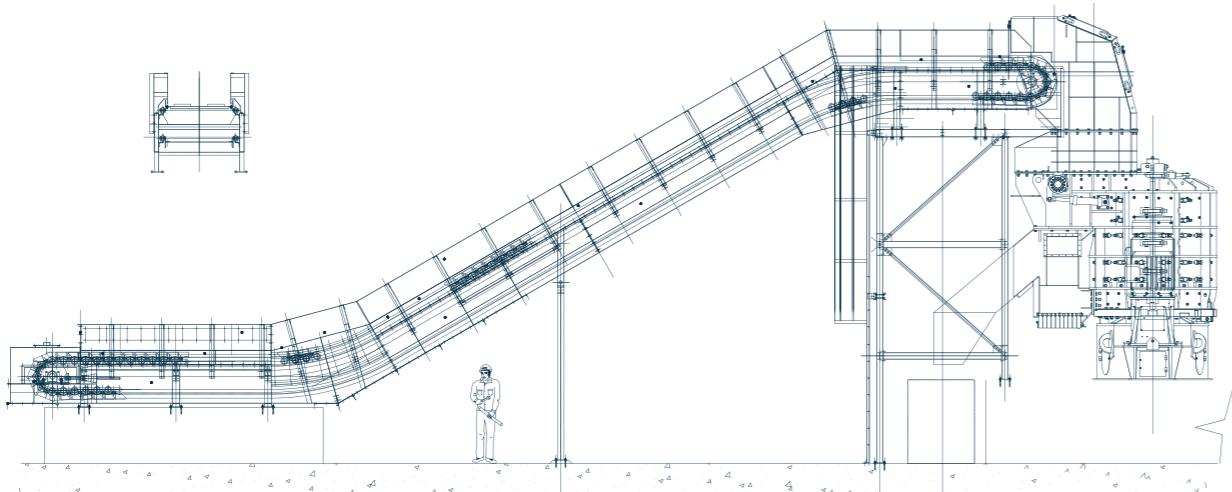
**Field of use:** receiving of scrap material.

**Technical description:** two bushed chains, pans with impact resistance, toothed sprockets with replaceable teeth.

**Standard dimensions:** apron width from 800 to 3000 mm.

**Versions:** drive with electrical motors or with hydraulic drive.

**Advantages:** heavy-duty conveying system suitable to accept metallic scrap.



# APRON WEIGH FEEDERS

1.3

CODE AP-WE



## DESCRIPTION

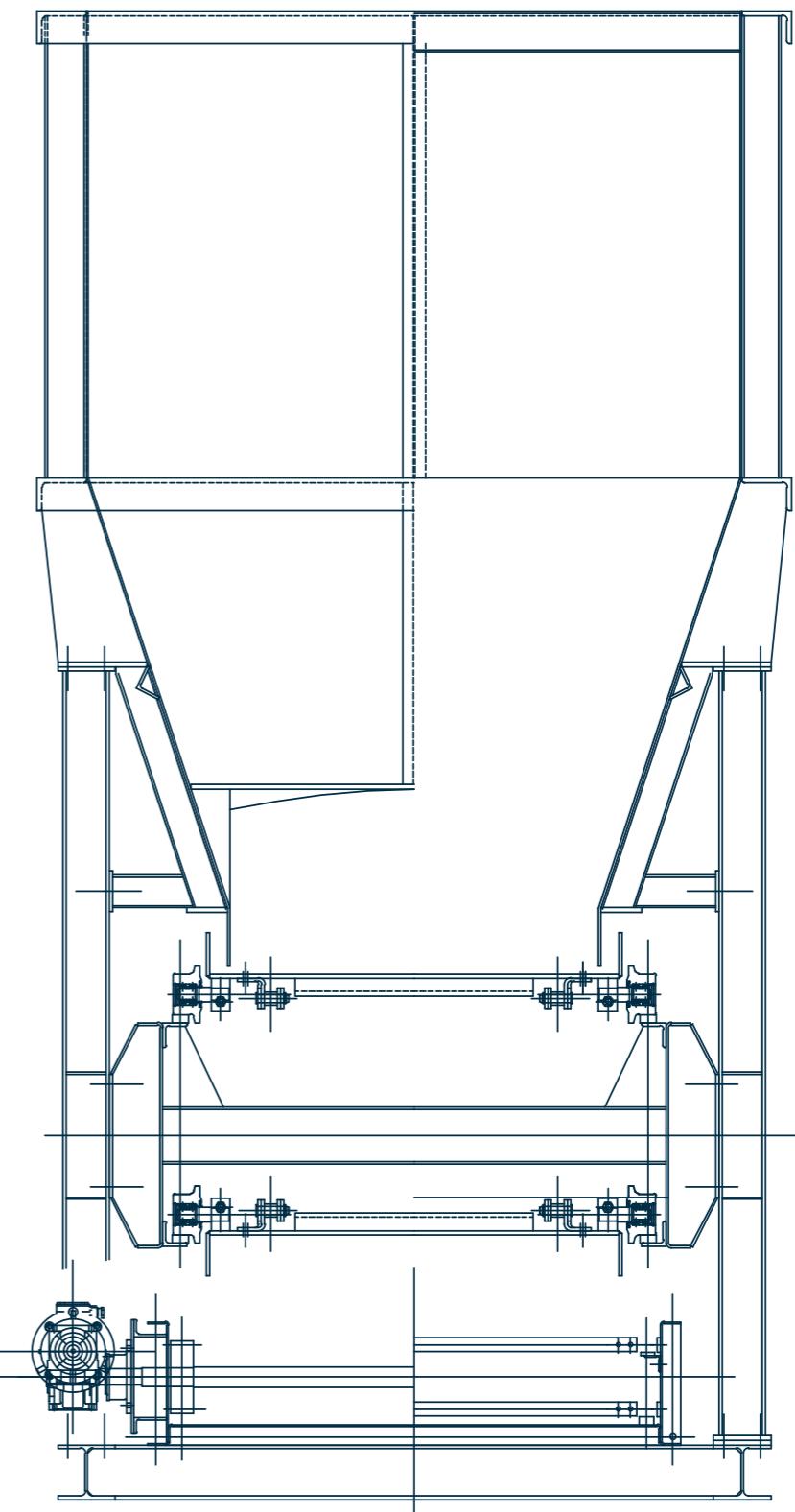
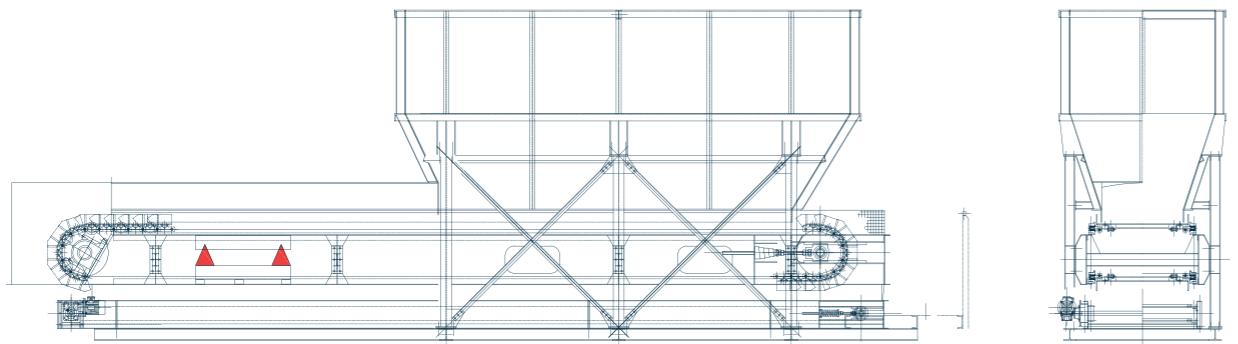
**Field of use:** accurate weighing of medium-flow material up to medium material temperature.

**Technical description:** two bushed chains, pans with impact resistance, toothed sprockets with replaceable teeth, load cells, weighing integrator with frequency inverter.

**Standard dimensions:** apron width 1000, 1600 mm.

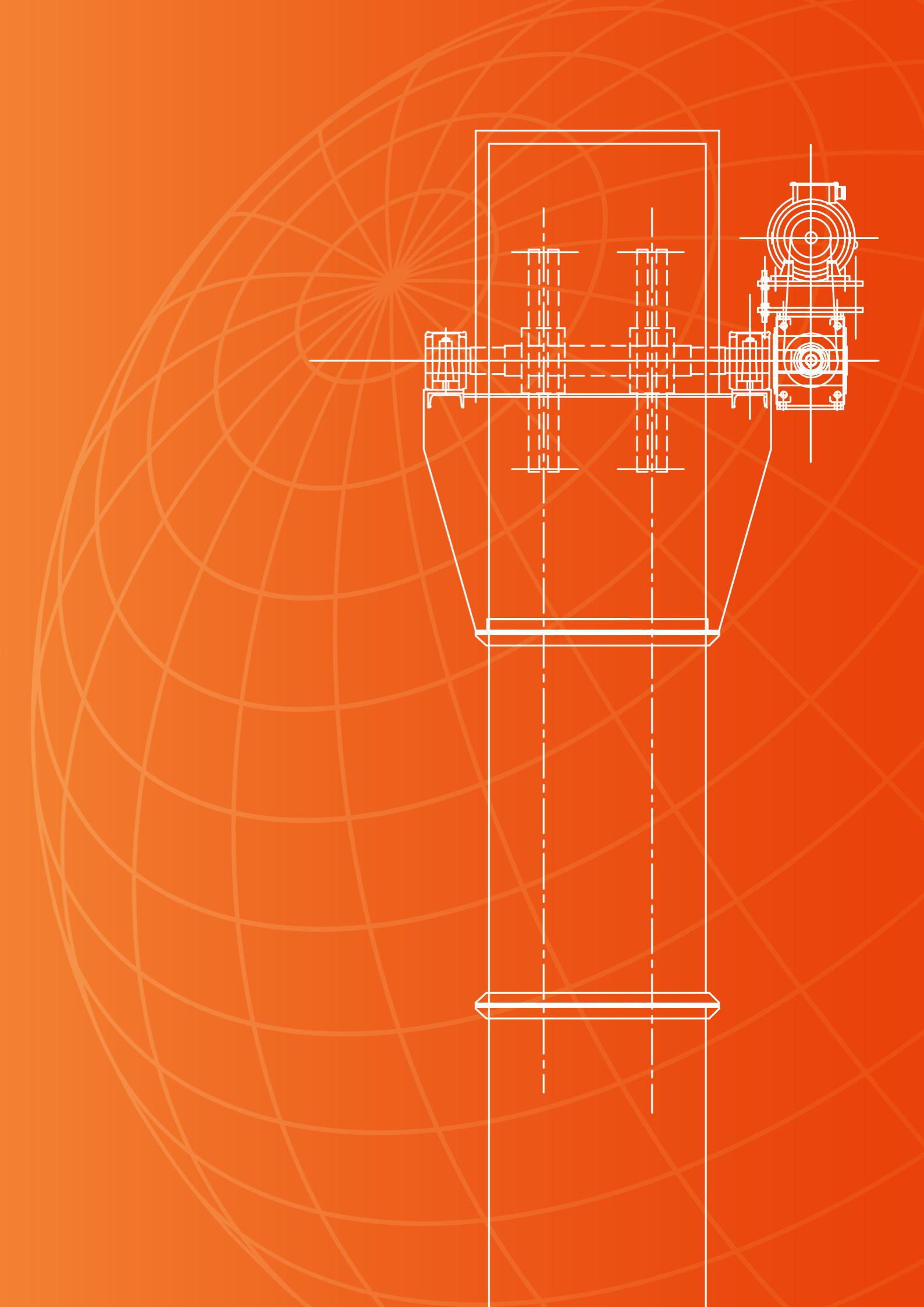
**Versions:** continuous weighing or dosing with frequency inverter.

**Advantages:** maintenance-free weighing even with foreign matters and high temperature.



# BUCKET ELEVATORS

02



# CENTRAL CHAIN BUCKET ELEVATORS

2.1

## CODE BEP-S



### DESCRIPTION

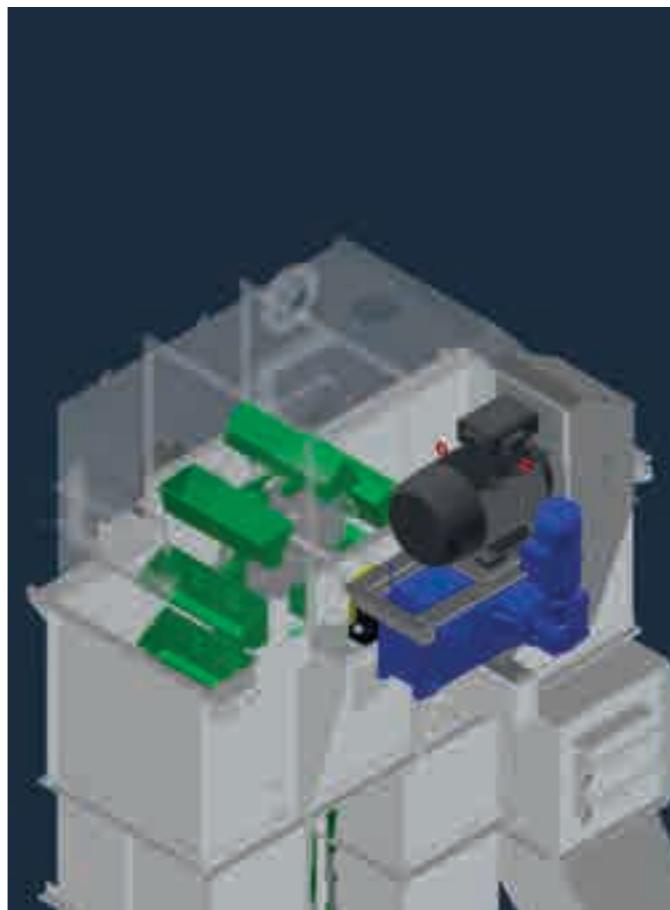
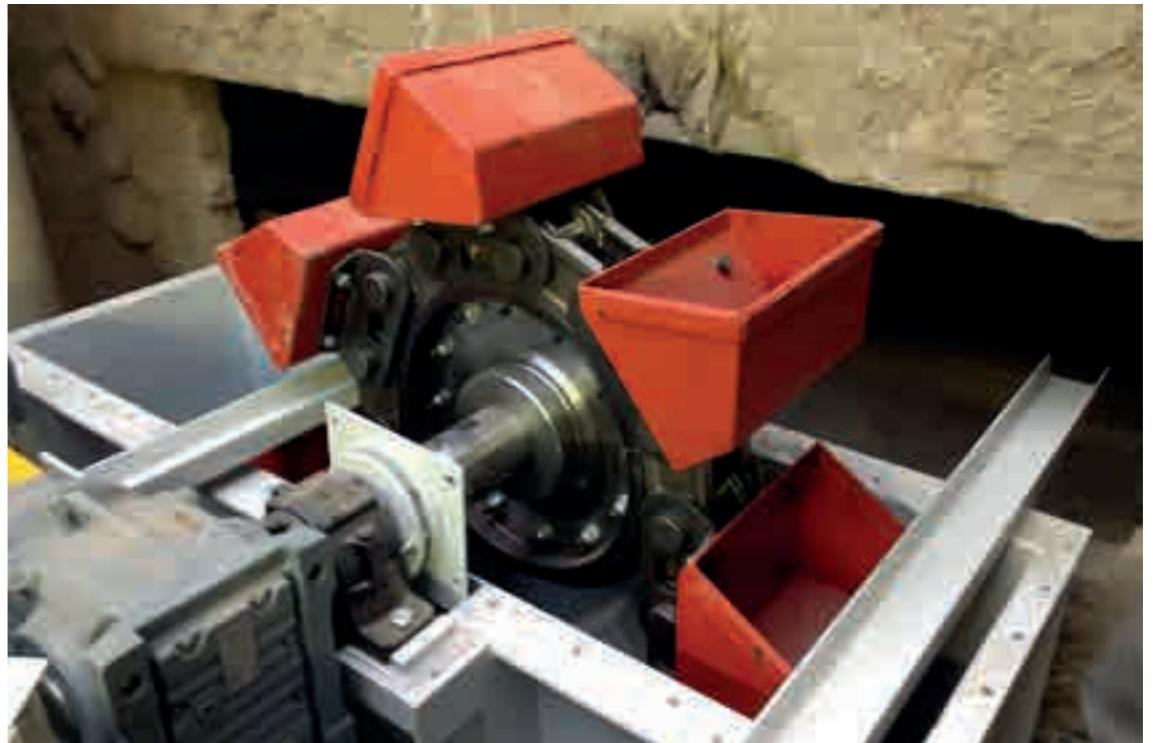
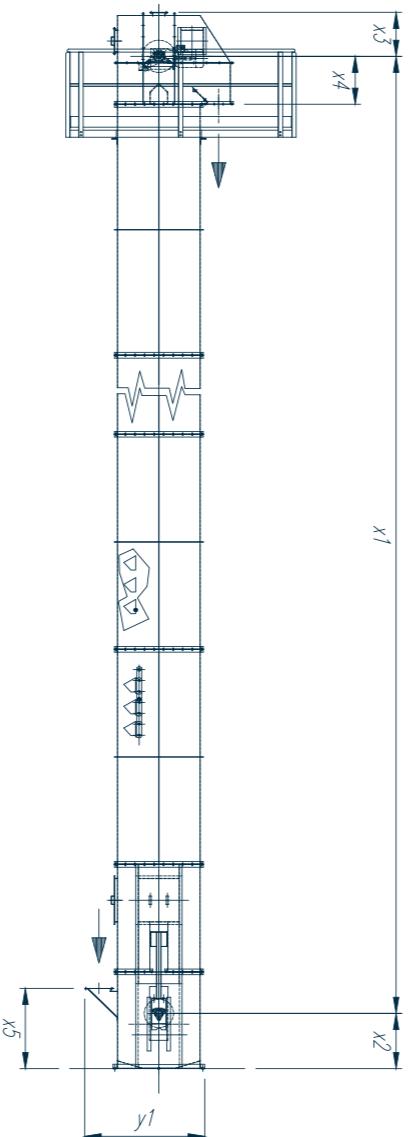
**Field of use:** vertical conveying of coarse, medium-temperature bulk material up to medium capacities.

**Technical description:** single-bushed chain, sprockets with replaceable tooth segments, induction-hardened.

**Standard dimensions:** bucket width from 315 to 1000 mm.

**Versions:** spring tension or hydraulic tension.

**Advantages:** almost maintenance-free bucket elevator, safe excise in case of a certain percentage of oversized material.



# HIGH CAPACITY DOUBLE CHAINS BUCKET ELEVATORS

2.2

CODE BEP-D-HC



## DESCRIPTION

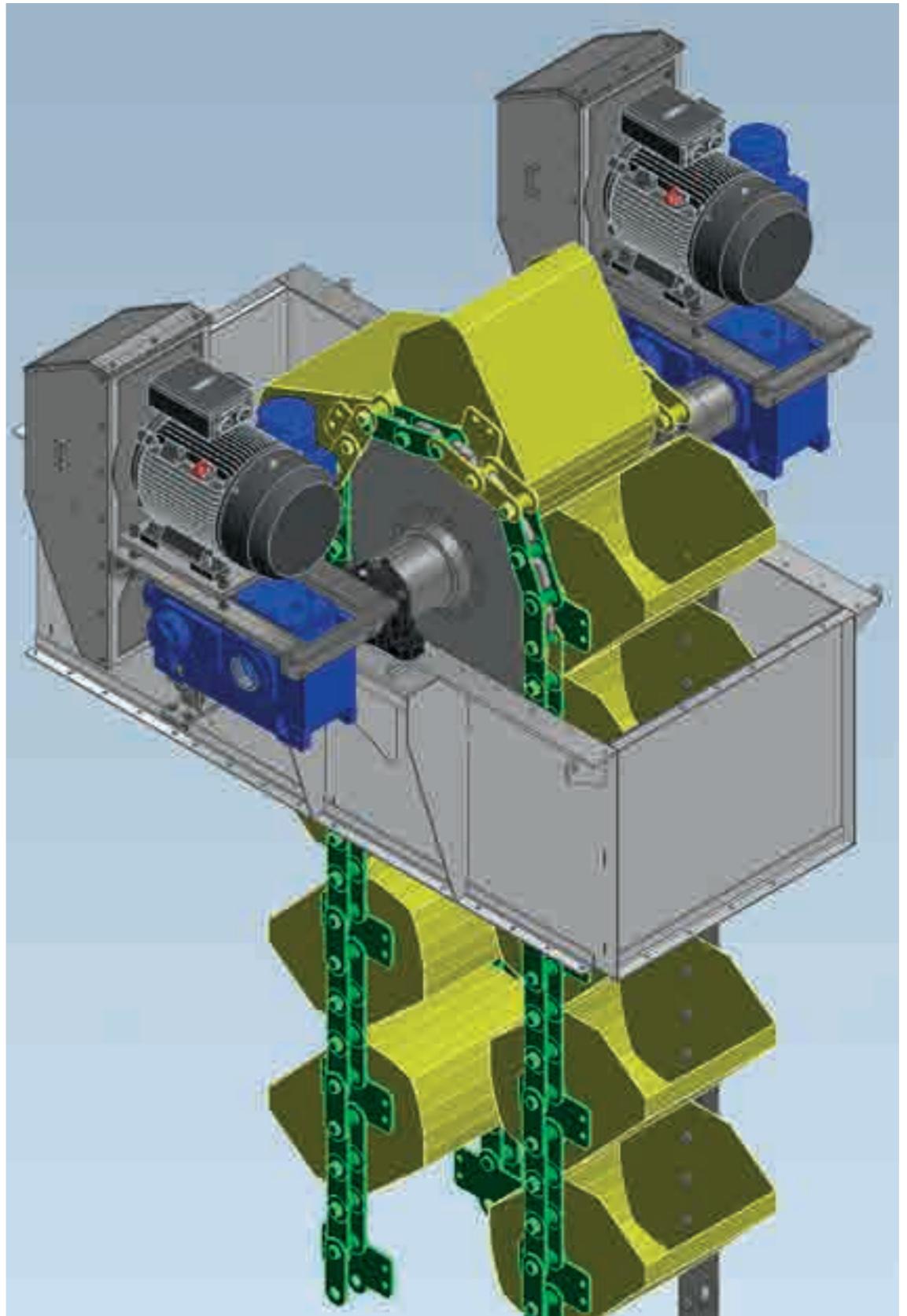
**Field of use:** conveying of coarse, medium-temperature bulk material with high to very high capacities.

**Technical description:** double-bushed chain, sprockets with replaceable tooth segments, induction-hardened.

**Standard dimensions:** bucket width from 630 to 2000 mm.

**Versions:** spring tension or hydraulic tension.

**Advantages:** safe exercise even in case of temporary high overcapacities. High capacity in a small space.



# ROUND LINK CHAIN TOOTHED BUCKET ELEVATORS

2.3

## CODE BER



## DESCRIPTION

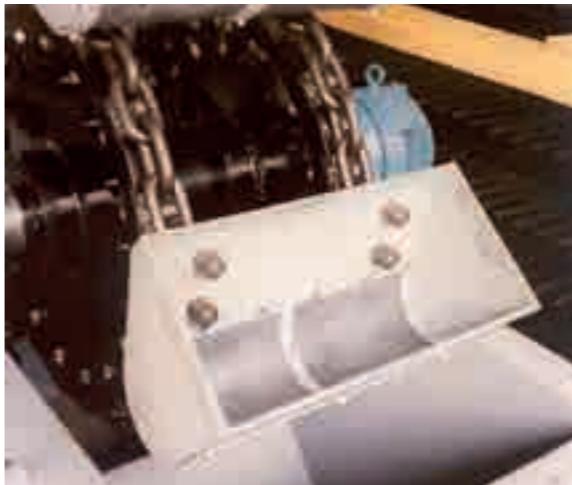
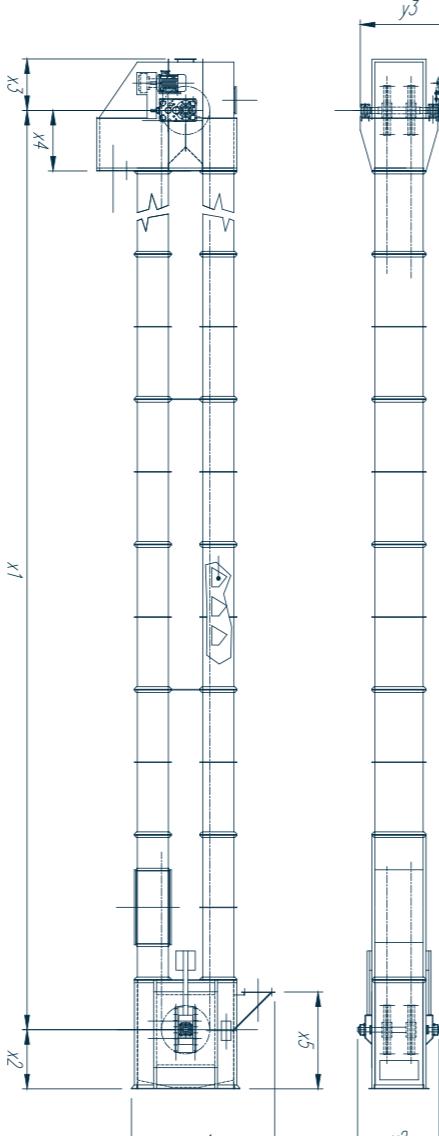
**Field of use:** bucket elevator for medium capacities, medium temperatures of material, and in case of wet material or with corrosion.

**Technical description:** double round link chains, sprockets with replaceable tooth segments, induction-hardened.

**Standard dimensions:** bucket width from 315 to 800 mm.

**Versions:** spring tension.

**Advantages:** safe exercise, low maintenance, fast maintenance due to low weight of chains, wide range of use.



# POSITIVE DISCHARGE CHAIN BUCKET ELEVATORS

24

CODE BER-R-PO



## DESCRIPTION

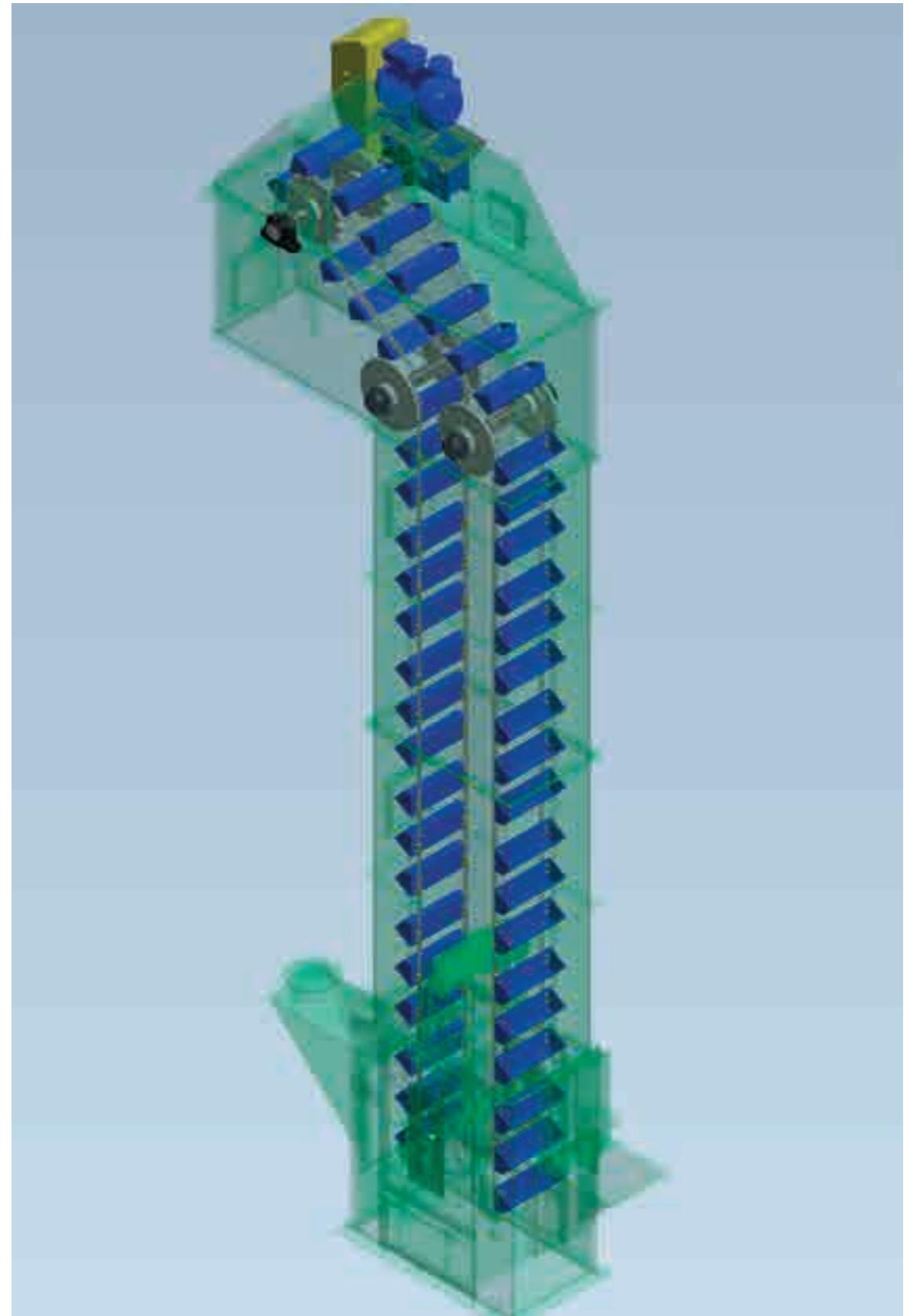
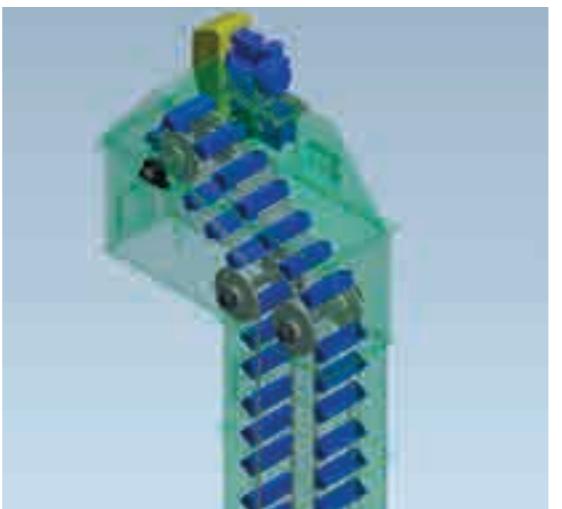
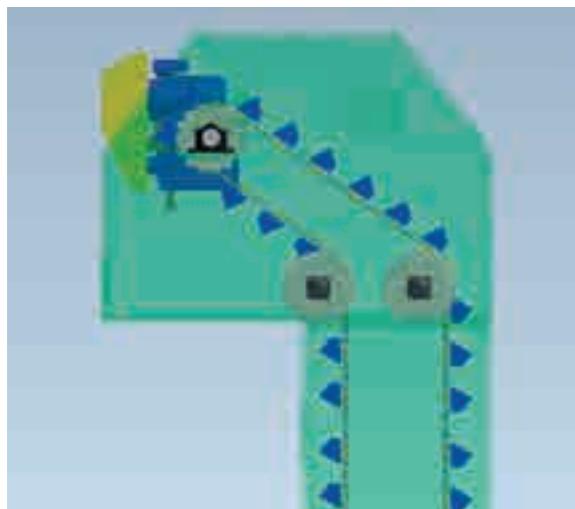
**Field of use:** for material with very low specific weight, which makes it difficult to unload the bucket at discharge.

**Technical description:** double round link chains, sprockets with replaceable tooth segments, induction-hardened.

**Standard dimensions:** bucket width from 315 to 800 mm.

**Versions:** spring tension.

**Advantages:** safe exercise, low maintenance, fast maintenance due to low weight of chains.



# BELT BUCKET ELEVATORS GSB

2.5

## CODE BE-BEL



### DESCRIPTION

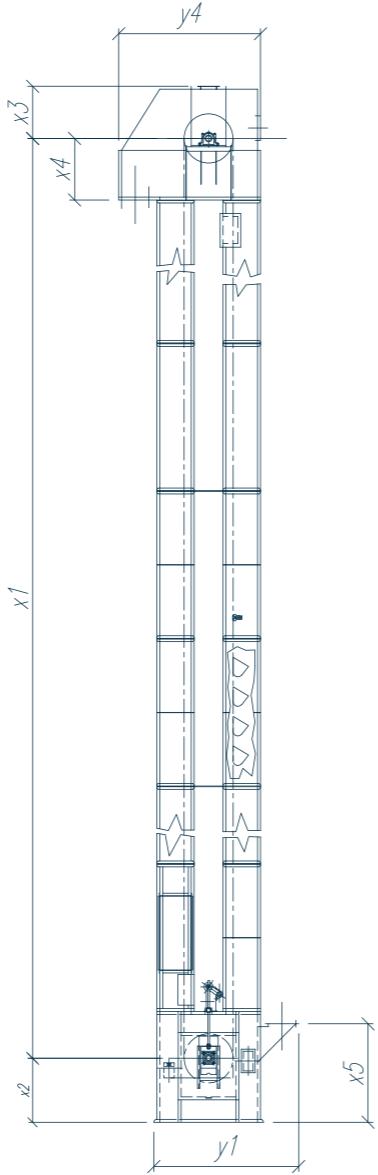
**Field of use:** high capacity required, large center distances, powder material with a maximum temperature of 120-130 °C.

**Technical description:** steel-cord belt, rubber-lined drive drum, balanced-type tension system.

**Standard dimensions:** bucket width from 315 to 1600 mm.

**Versions:** normal temperature, high temperature.

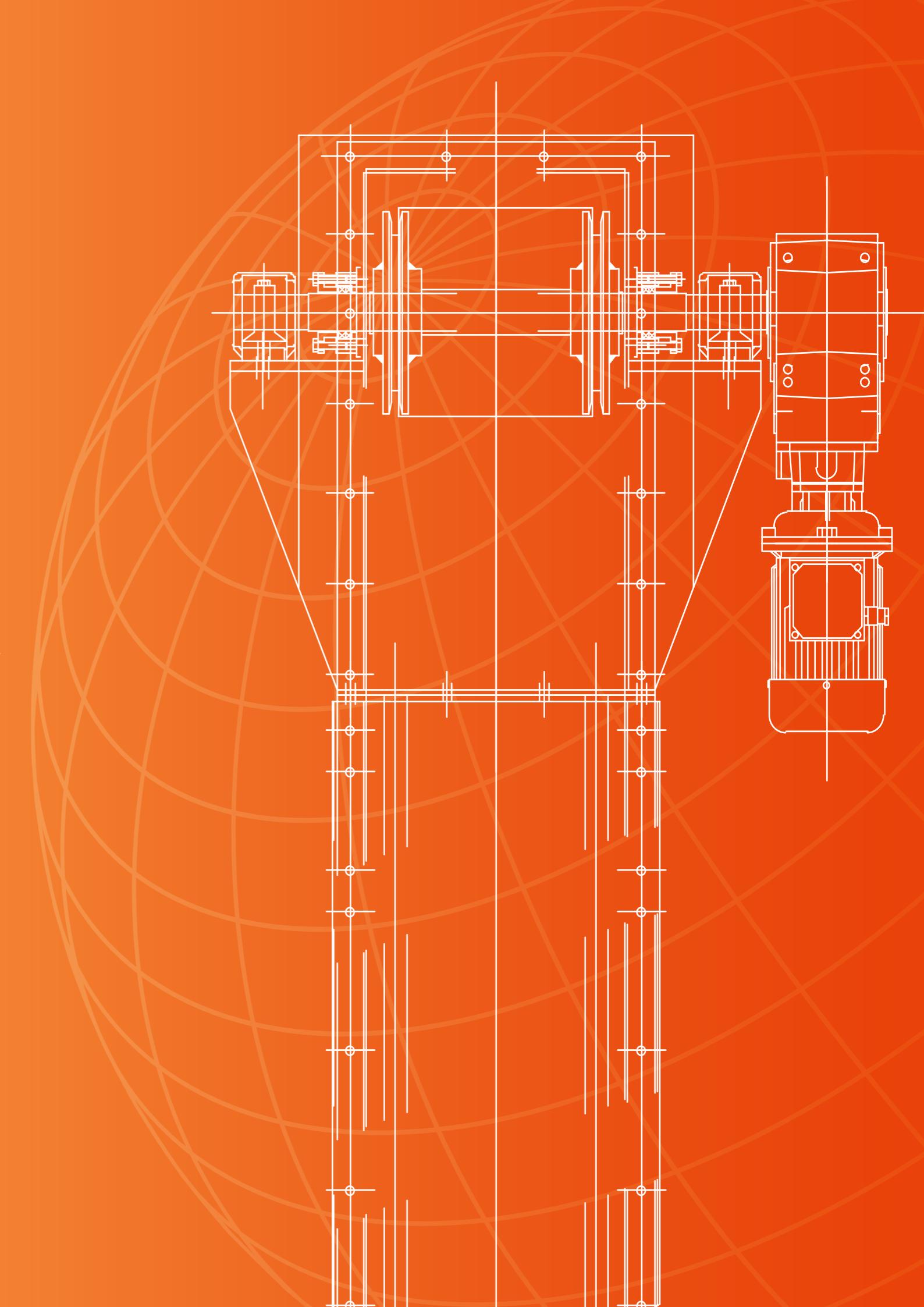
**Advantages:** high capacity.





# DRAG CHAIN CONVEYORS

03



# SINGLE CHAIN

CODE DRG-S



3.1

## DESCRIPTION

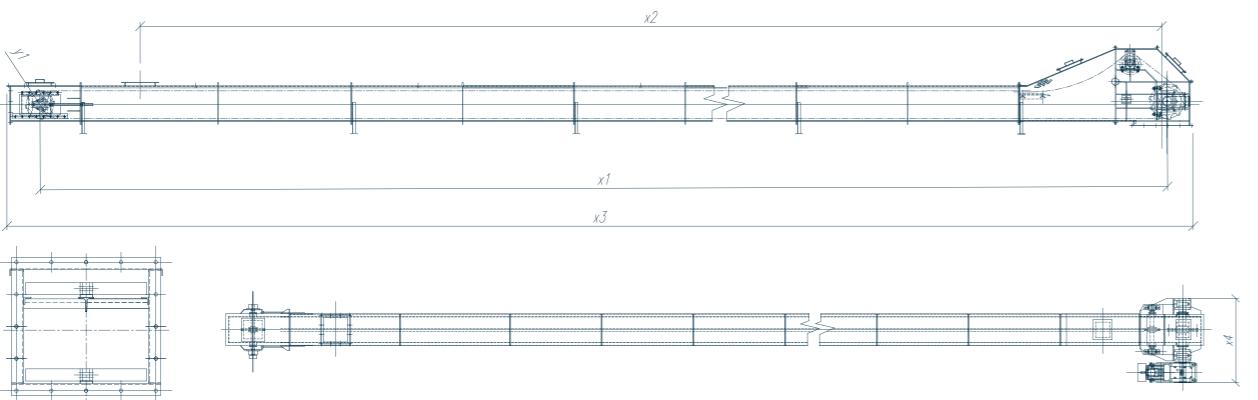
**Field of use:** conveying of even high temperature powder material in an enclosed environment on longer ranges, horizontally and inclined as well.

**Technical description:** forged chain, case-hardened, with welded scrapers, induction-hardened sprockets, casing with replaceable wear liners.

**Standard dimensions:** width from 250 to 800 mm.

**Versions:** horizontal, inclined, gravity, spring-hydraulic tension systems, for filter hopper evacuation.

**Advantages:** conveying of bulk material on longer and inclined ranges, dustfree.





# DOUBLE CHAIN

CODE DRG-D

3.2



## DESCRIPTION

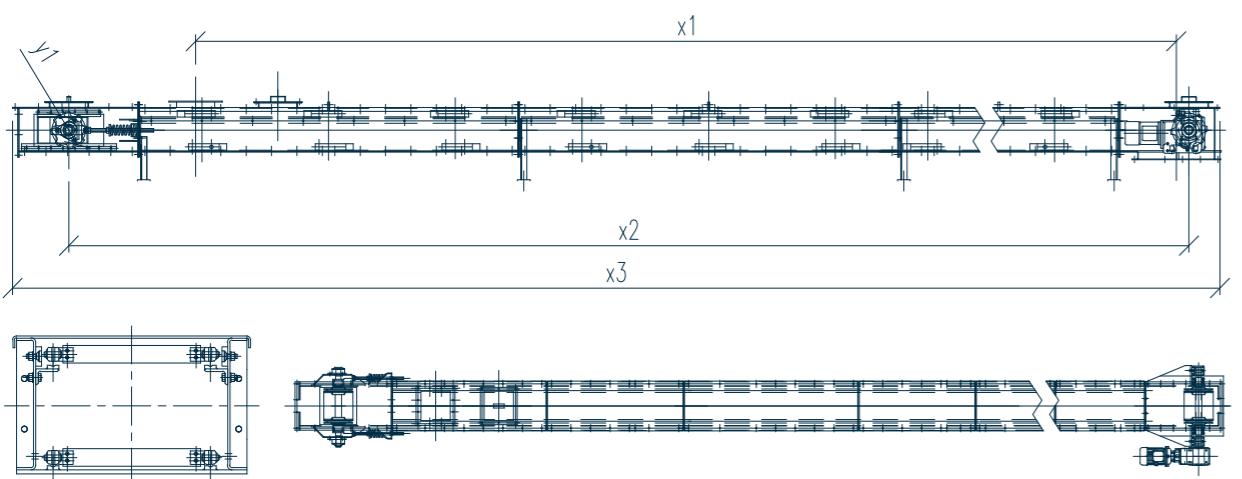
**Field of use:** conveying of powder and large size material, at higher flow rates on longer ranges, horizontally but inclined as well.

**Technical description:** forged double chain, case-hardened, with U-pins fixed scrapers, induction-hardened sprockets, casing with replaceable wear liners.

**Standard dimensions:** width from 630 to 1600 mm.

**Versions:** horizontal, inclined, gravity, spring-hydraulic tension systems.

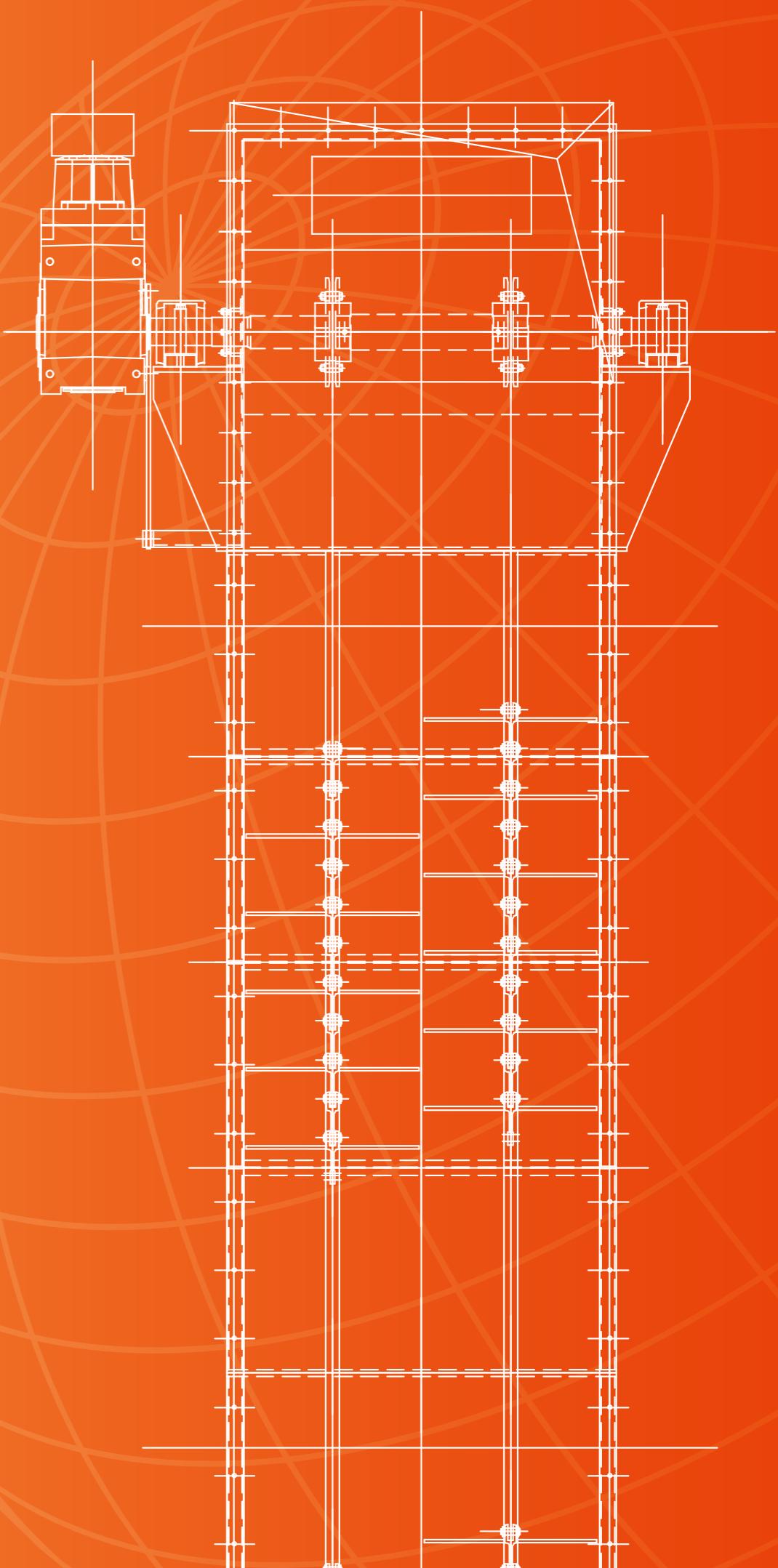
**Advantages:** conveying of bulk material with higher flow rates, higher temperatures on longer and inclined ranges, dustfree.





# DRAG CHAIN FEEDERS

04



# MULTIPLE CHAINS FEEDERS

4.1

CODE DRG-FE-M



## DESCRIPTION

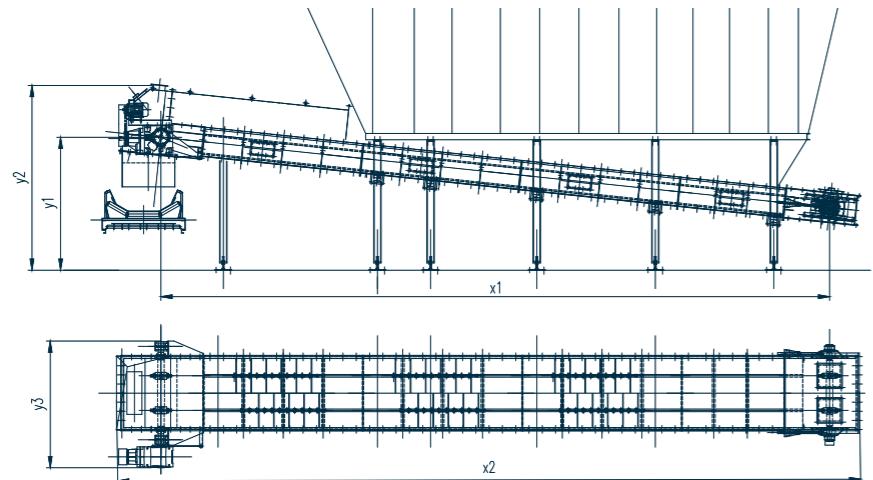
**Field of use:** feeding of even large-sized material from bunkers, wagons or truck unloading.

**Technical description:** forged chain, double, case-hardened, with U-pins fixed scrapers, induction-hardened sprockets, casing with replaceable wear liners or multiple round link chains with bolted scrapers; heavy-duty design.

**Standard dimensions:** forged chains conveyor width from 800 to 1200 mm; round link chains feeder with 1500, 1800, 2100 mm.

**Versions:** horizontal, inclined, spring-hydraulic tension systems.

**Advantages:** low vertical space required in the plant, easy maintenance.



# “Z” TYPE CHAIN BUCKET ELEVATORS

# 05



# “Z” TYPE CHAIN BUCKET ELEVATORS

5.1

CODE BE-Z



## DESCRIPTION

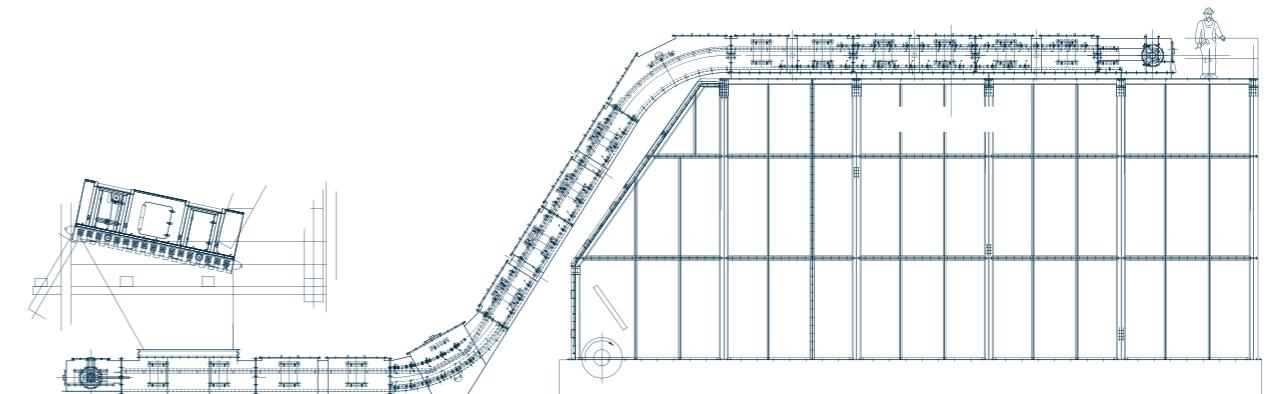
**Field of use:** small to medium capacities needed in compact plants, with material temperatures up to 200 - 250 °C.

**Technical description:** continuous metallic buckets with laterally mounted bushed chains and rollers.

**Standard dimensions:** bucket width from 400 to 800 mm.

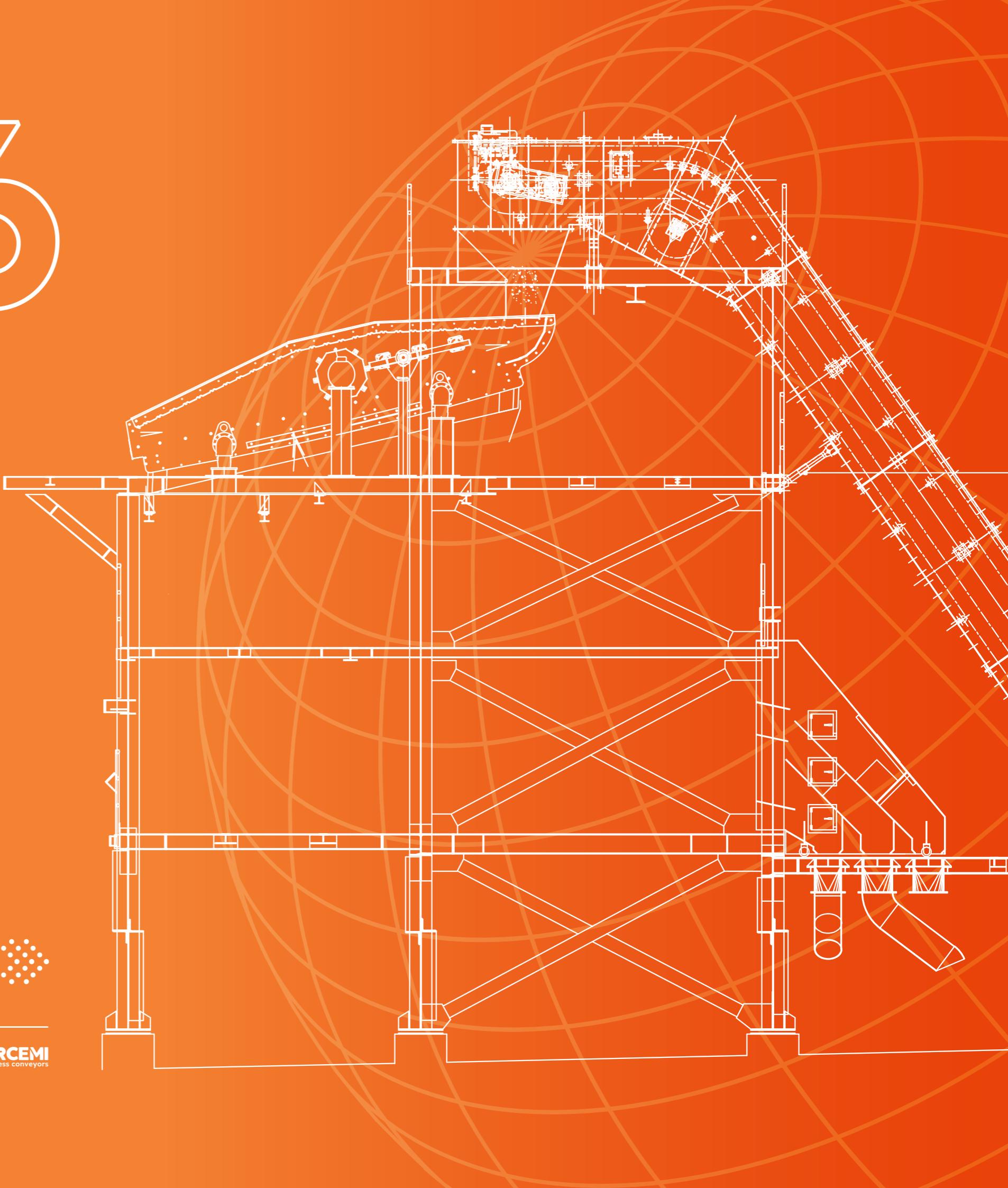
**Versions:** normal temperature, high temperature.

**Advantages:** combined conveying horizontal - vertical - horizontal.



# “Z” TYPE POCKET BELT CONVEYORS

06



# “Z” TYPE POCKET BELT CONVEYORS

CODE BE-BB



6.1

## DESCRIPTION

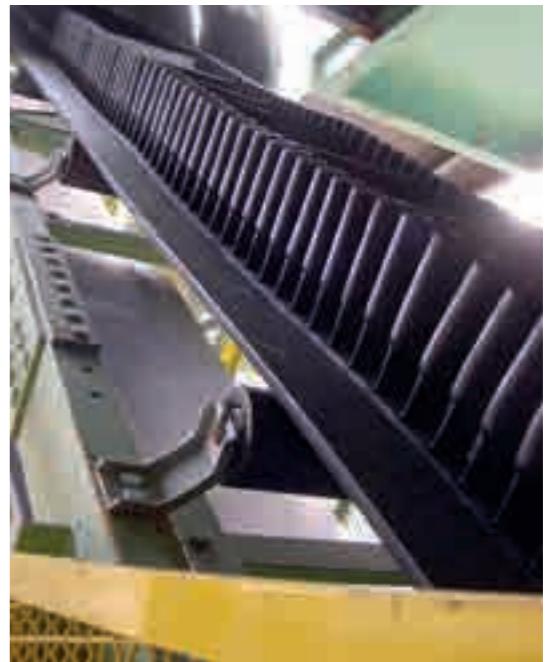
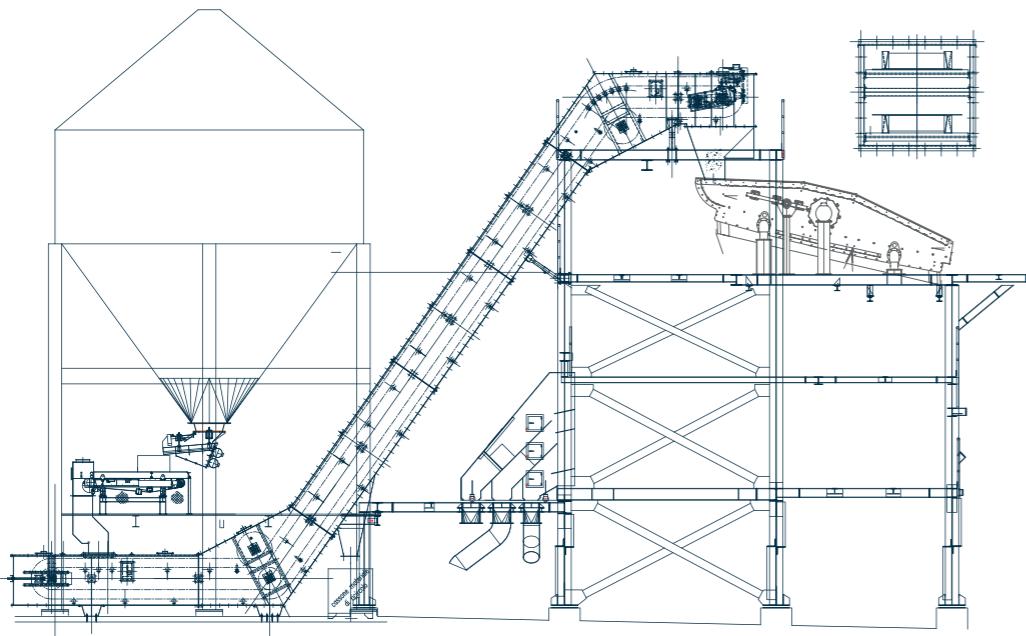
**Field of use:** small to medium capacities needed in compact plants, with ambient material temperatures.

**Technical description:** continuous rubber belt with rubber side walls.

**Standard dimensions:** belt bucket width from 400 to 1600 mm.

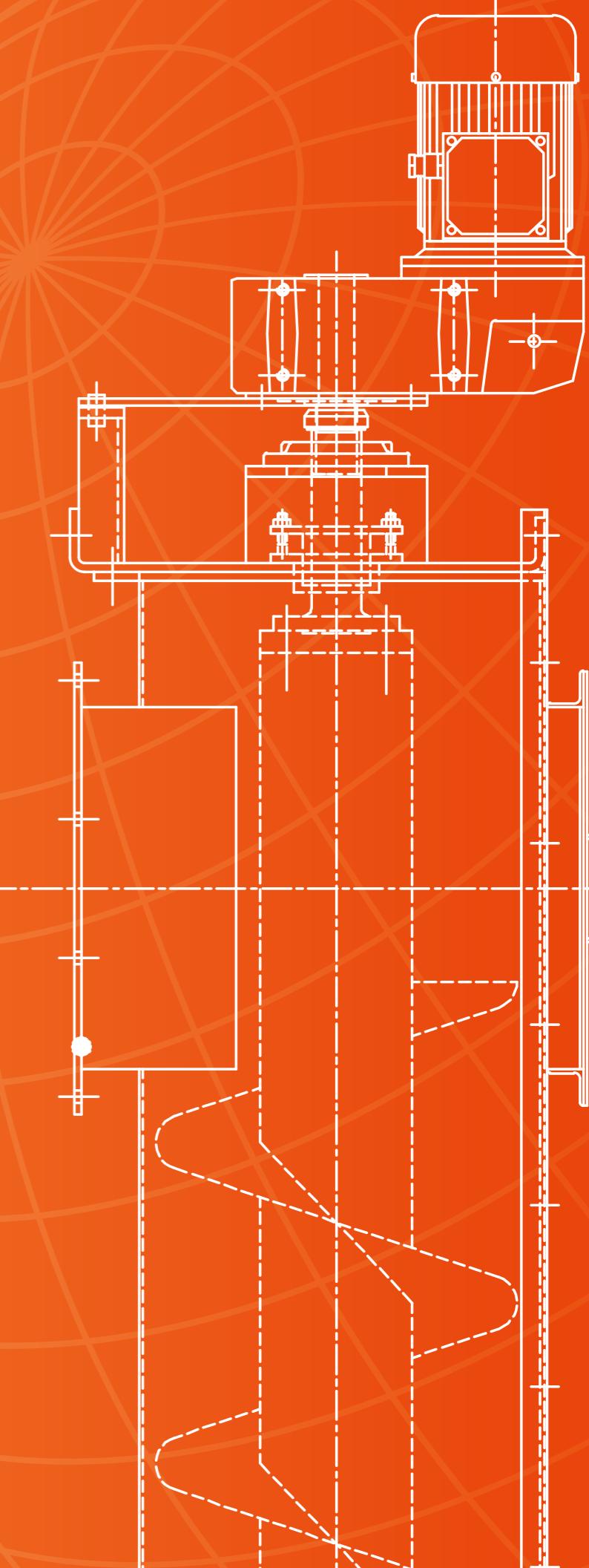
**Versions:** normal temperature.

**Advantages:** combined conveying horizontal - vertical - horizontal.



# SCREW CONVEYORS

07



# SCREW CONVEYORS

7.1

CODE SC



## DESCRIPTION

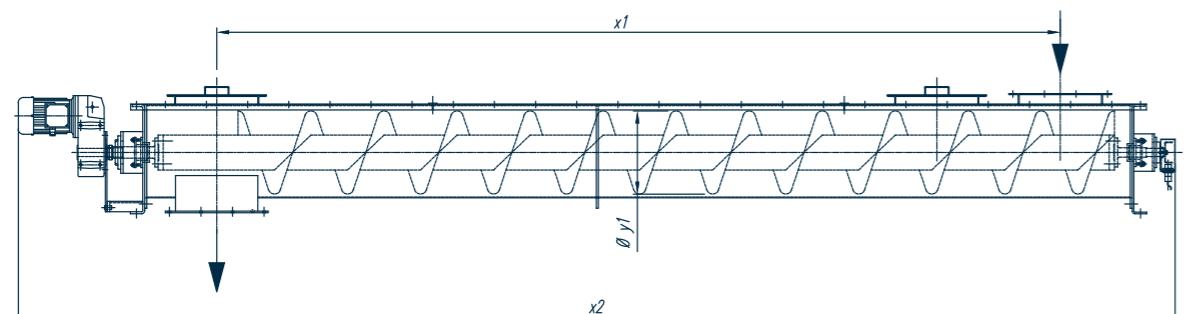
**Field of use:** conveying of bulk material on short distances, in a dust-tight way, with low power consumption.

**Technical description:** seals with adjustable stuffing box, spaced supports, intermediate supports and flushed packings.

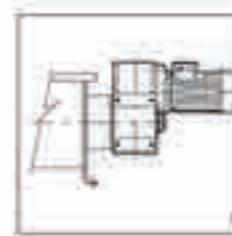
**Standard dimensions:** from diameter 250 mm to diameter 1500 mm.

**Versions:** stainless steel, hardox flights, variable pitch, ATEX, flushed seals, PTA version, automatic lubrication system.

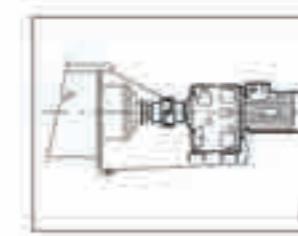
**Advantages:** dust-tight, low power consumption, low maintenance, safe exercise, best for process plants.



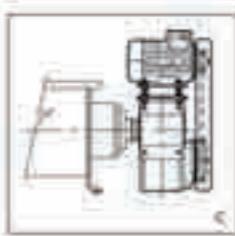
## Driving system



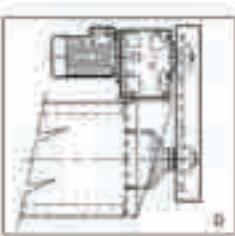
Direct transmission



Transmission with coupling



Belt transmission



Chain transmission



# SCREW FEEDERS

7.2

CODE SC-FEE



## DESCRIPTION

**Field of use:** feeding of material from a hopper, avoiding the build-up of material dead areas (with variable pitch and shaft diameter).

**Technical description:** with variable flight pitch and shaft diameter.

**Standard dimensions:** from diameter 500 to 1000 mm.

Following Jenike & Johansen rules.

**Versions:** stainless steel, various flights materials, various flights types, ATEX, flushed packings.

**Advantages:** feeding of material with low power consumption, dust-tight, automatic exercise.



# COOLING SCREW CONVEYORS

7.3

CODE SC-COO



## DESCRIPTION

**Field of use:** cooling of powder bulk material in an enclosed environment and in a simple way.

**Technical description:** water cooled body, water cooled shaft, heat guard.

**Standard dimensions:** from diameter 500 mm to diameter 1500 mm.

**Versions:** heat-resistant stainless steel, various flights materials, various flights types.

**Advantages:** cooling of bulk material in an enclosed environment, avoiding pollution.



# SCREW WEIGHING CONVEYORS

7.4

CODE SC-WE



## DESCRIPTION

**Field of use:** continuous weighing or precision metering of a bulk material flow.

**Technical description:** with load cell, control panel, frequency inverter, metering cell feeder for continuous weighing or metering.

**Standard dimensions:** from diameter 500 mm to diameter 800 mm.

**Versions:** stainless steel, flushed packings.

**Advantages:** weighing, conveying and feeding at the same time.



# SCREW MIXER HUMIDIFIERS

7.5

CODE SC-HU



## DESCRIPTION

**Field of use:** humidifying of powder material before transport with truck to avoid pollution.

**Technical description:** single shaft, double shaft, with moisture metering, water system.

**Standard dimensions:** from diameter 315 mm to diameter 800 mm.

**Versions:** stainless steel, flushed packings.

**Advantages:** humidifying in an enclosed environment.



# FEEDER (BELOW SILOS) SCREW BEDS

7.6

CODE SC-BE



## DESCRIPTION

**Field of use:** feeding of sticky and difficult handling of bulk materials under round or square silos.

**Technical description:** multiple screw feeder with single drive, variable flight pitch, frequency inverter.

**Standard dimensions:** from diameter 300 mm to 600 mm, covering silo bottom.

**Versions:** stainless steel, flushed packings.



# SHAFTLESS SCREW CONVEYORS HORIZONTAL

7.7

CODE SC-SH-H



## DESCRIPTION

**Field of use:** conveying of any kind of large-sized and difficult to convey material such as waste, recycling material, wood, foreign matter etc.

**Technical description:** shaftless screw, wear-resistant screw edges, wear-protected casing inside, only single-drive support.

**Standard dimensions:** from diameter 315 mm to diameter 800 mm.

**Versions:** stainless steel, flushed packings, Hardox flights, Hardox.

**Advantages:** almost clog-free conveying of very difficult materials in short spaces (only one support needed).



# SHAFTLESS VERTICAL SCREW CONVEYORS

7.8

CODE SC-SH-V



## DESCRIPTION

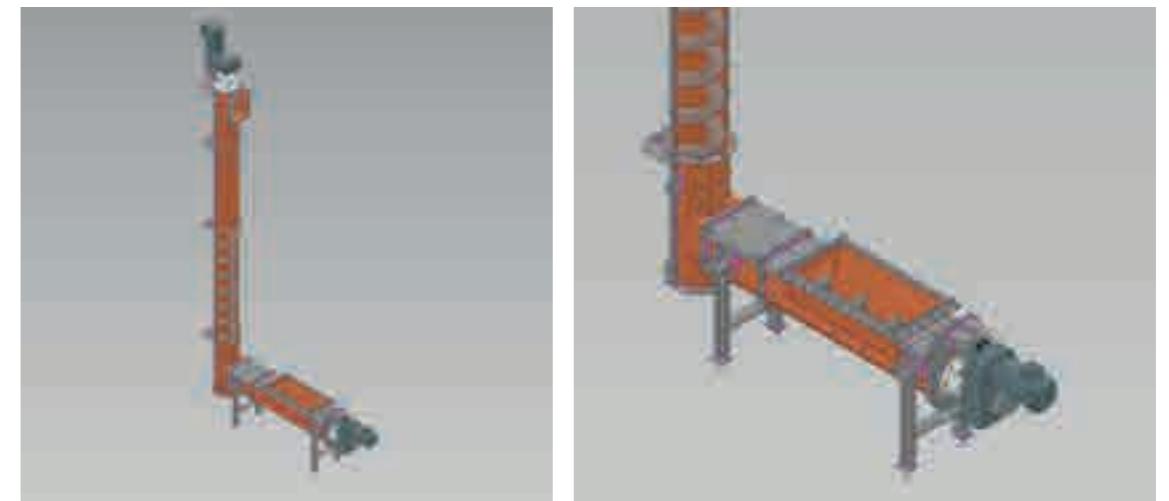
**Field of use:** vertical conveying of any kind of large-sized and difficult to convey material such as waste, recycling material, wood, foreign matter etc.

**Technical description:** shaftless screw, wear-resistant screw edges, wear-protected casing inside, only single-drive support, thrust bearing.

**Standard dimensions:** from diameter 315 mm to diameter 800 mm.

**Versions:** stainless steel, flushed packings, Hardox flights, Hardox.

**Advantages:** vertical conveying of difficult material in an enclosed environment.



# SCREW CONVEYOR FOR ACIDS

7.9

CODE SC-TCM



## DESCRIPTION

**Field of use:** conveying of powder acid under pressure-tight conditions.

**Technical description:** full polished stainless steel design, extra heavy-duty, pressure-tight packings and flanges, nitrogen purge.

**Standard dimensions:** from diameter 315 mm to diameter 800 mm.

**Versions:** ATEX, various stainless steel types.

**Advantages:** gas-tight, safe conveying of very sticky material.



# STOCKPILERS RECLAIM FEEDERS

# 08



# STOCKPILERS RECLAIM FEEDERS

8.1

## CODE RE-FEE



### DESCRIPTION

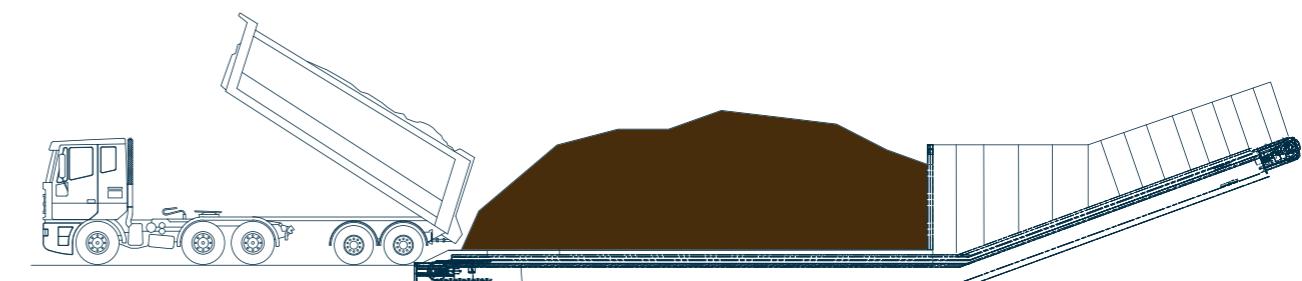
**Field of use:** unloading of temporary stockpiles and loading of process or trucks at open space or inside sheds.

**Technical description:** two bushed chains, scrapers with impact resistance, toothed sprockets with replaceable teeth.

**Standard dimensions:** apron width 1500 mm.

**Versions:** drive with electrical motors or with hydraulic motors, tension system with springs or hydraulic system.

**Advantages:** low-cost system for unloading temporary stockpiles.



# SURFACE FEEDERS

CODE SR-FEE

8.2



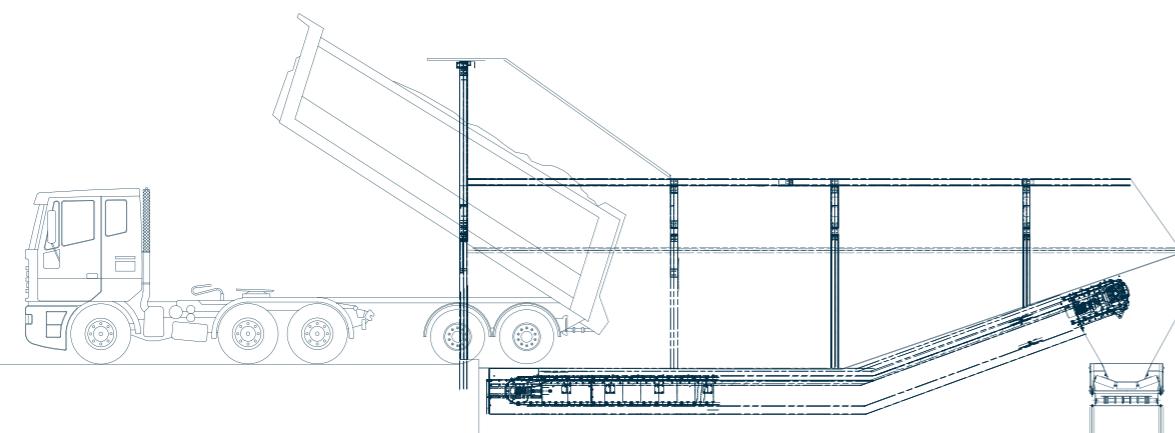
## DESCRIPTION

**Field of use:** transfer of bulk material from trucks to process or to stockpile or loading to barge.

**Standard dimensions:** conveyor width 2800 mm.

**Versions:** horizontal, inclined, with and without dust cover and filter.

**Advantages:** dustless transfer of bulk material to belt conveyors or to bucket elevators and to process.



# SURFACE STORAGE

CODE SR-STO

8.3



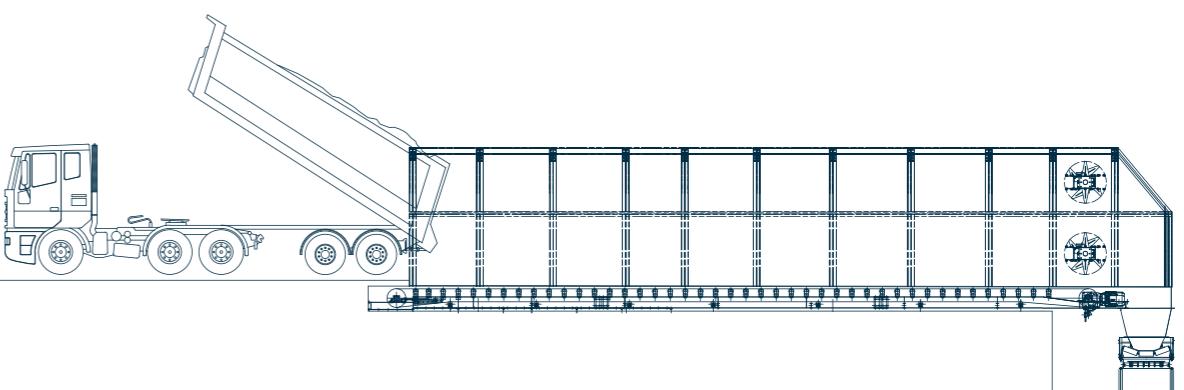
## DESCRIPTION

**Field of use:** ready to supply storage of low specific weight bulk material (for example: RDF).

**Standard dimensions:** conveyor width 2200 mm.

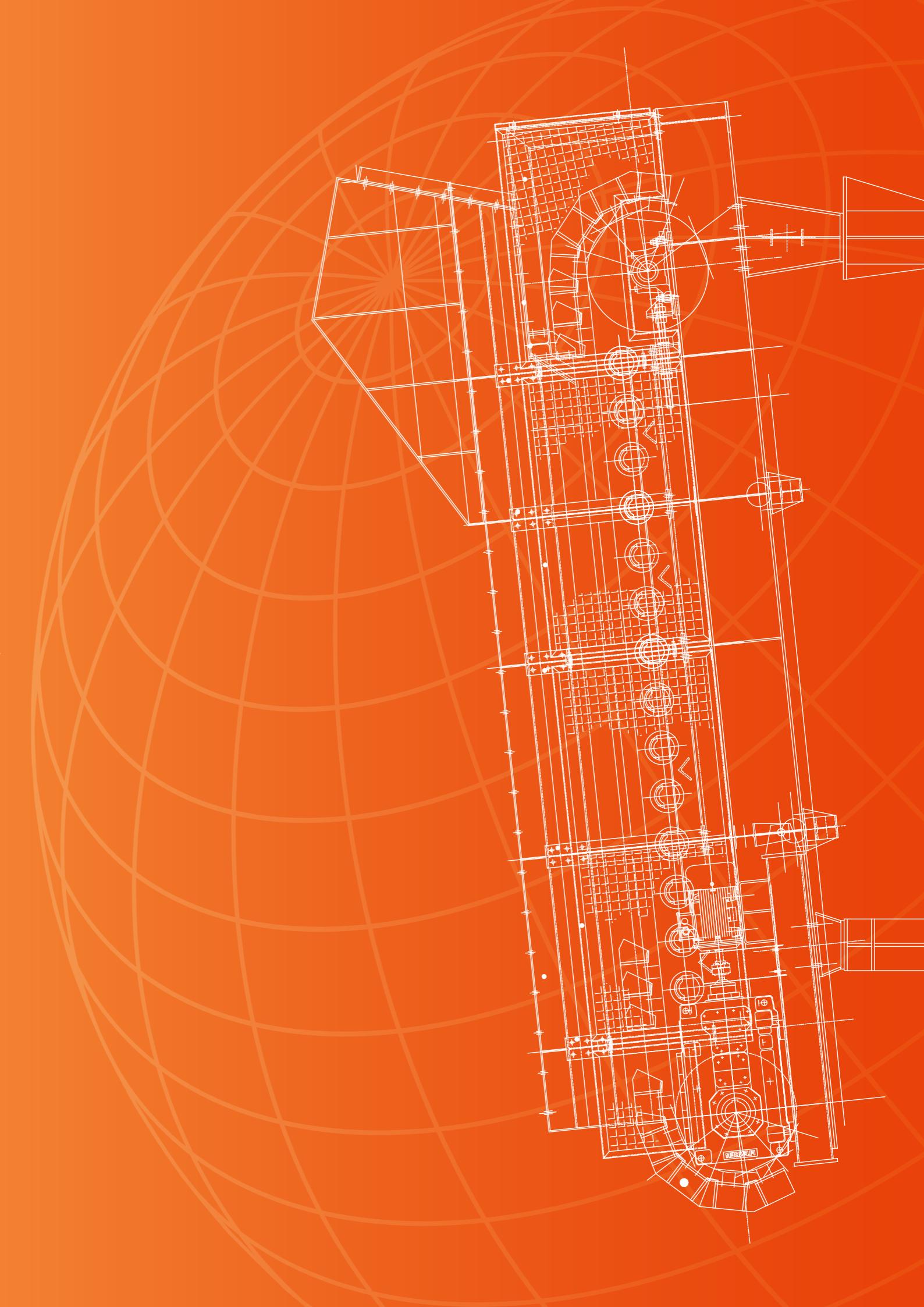
**Versions:** horizontal.

**Advantages:** storage of material in a ready-to-use way.



# PAN CONVEYORS

09



# PAN CONVEYORS

CODE PC

9.1



## DESCRIPTION

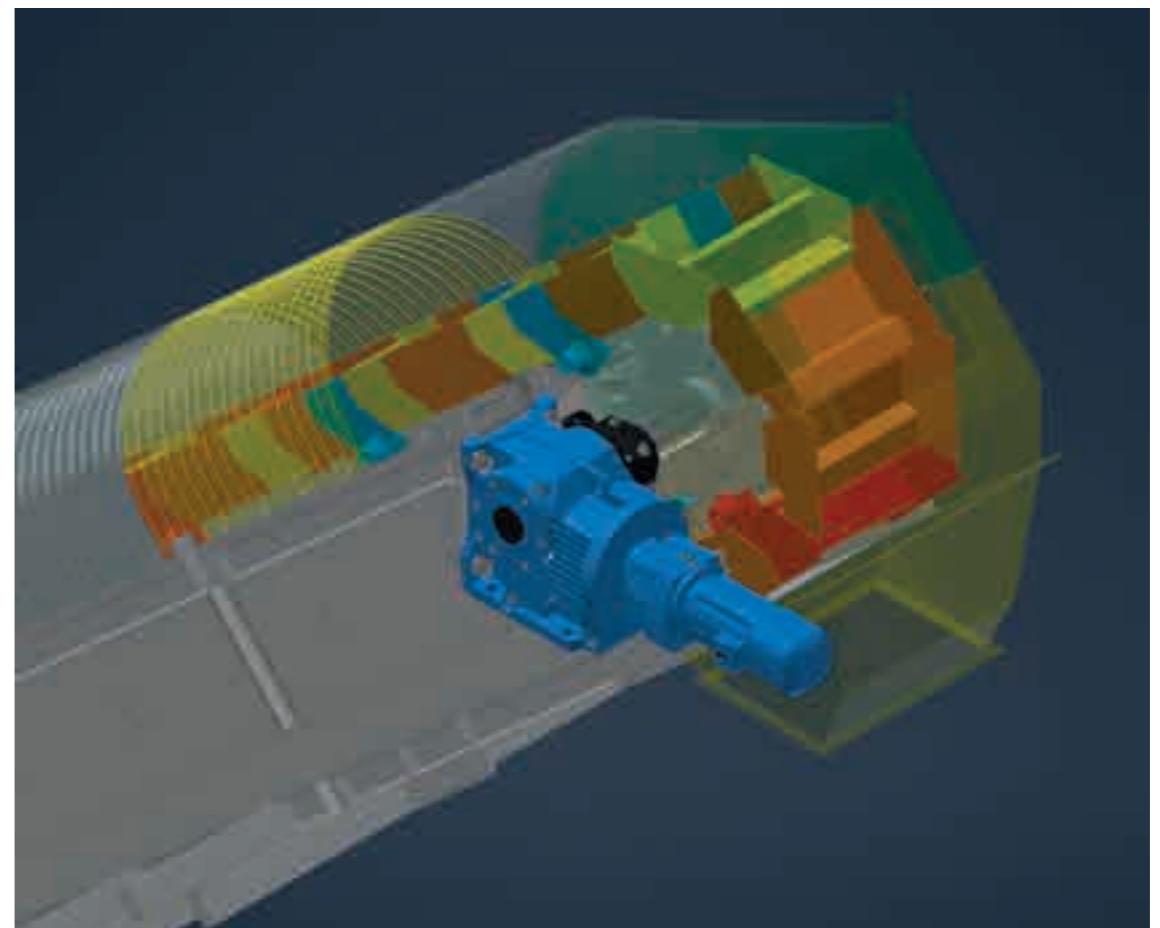
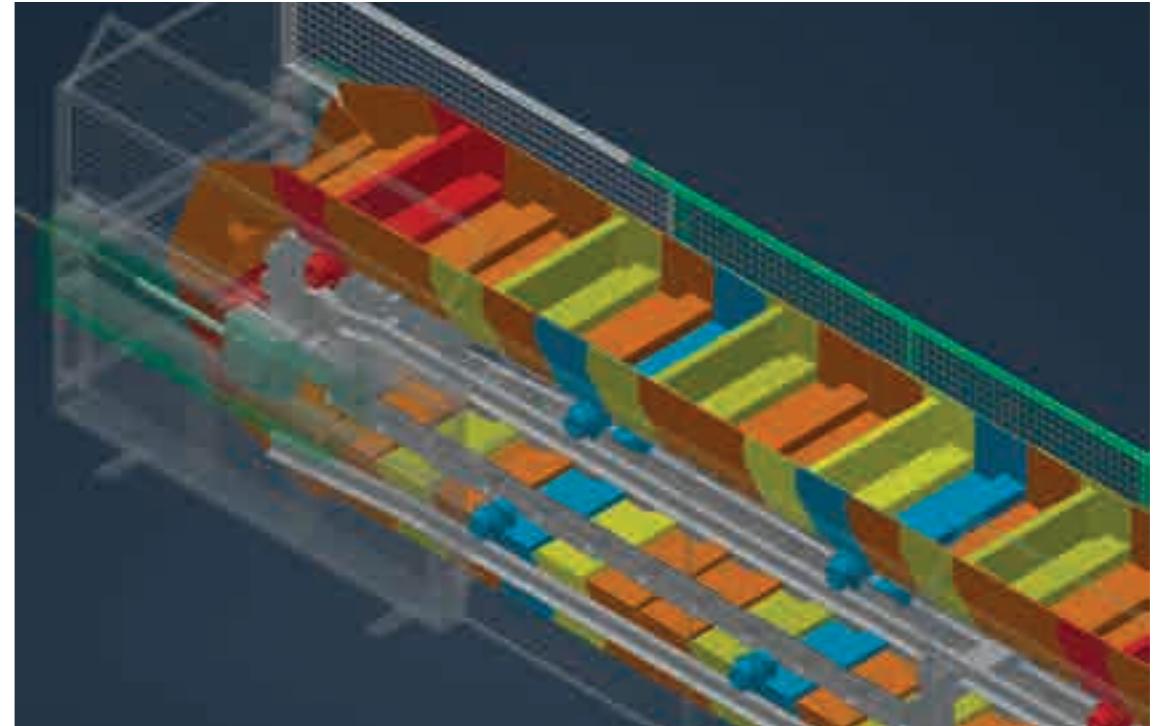
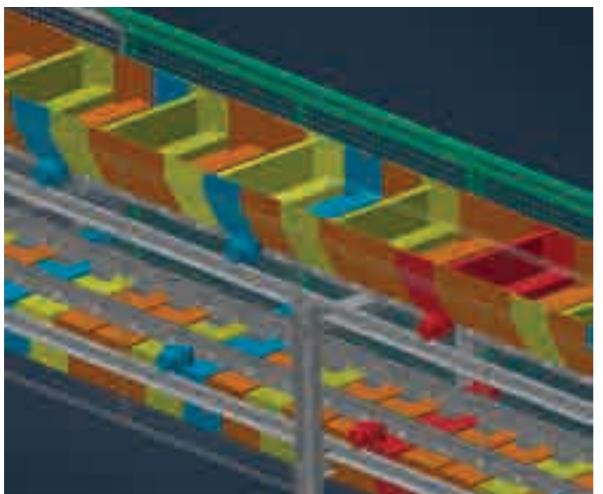
**Field of use:** safe conveying of abrasive material/hot material to silos even with inclined conveyors, medium distances and high capacities.

**Technical description:** two bushed chains, toothed sprockets with replaceable teeth, pans supported by rollers and chains.

**Standard dimensions:** from 400 to 2200 mm.

**Versions:** with single chain or double chains, horizontal or inclined, pans with or without additional buffer plates.

**Advantages:** low maintenance conveying system.



# BOX CONVEYORS

CODE PC-BX



## DESCRIPTION

**Field of use:** safe conveying of abrasive material/hot material to silos with inclined conveyors, medium distances and high capacities.

**Technical description:** two bushed chains, toothed sprockets with replaceable teeth, boxes supported by rollers and chains.

**Standard dimensions:** from 540 to 1400 mm

**Versions:** with single chain or double chains, horizontal or inclined, pans with or without additional buffer plates.

**Advantages:** low maintenance conveying system.

9.2

# DEEP DRAWN CONVEYORS

CODE PC-DP



## DESCRIPTION

**Field of use:** safe conveying of abrasive material/hot material to silos with very inclined conveyors, medium distances and medium capacities.

**Technical description:** two lateral bushed chains, toothed sprockets with replaceable teeth, boxes supported by rollers and chains.

**Standard dimensions:** from 640 to 1400 mm.

**Versions:** with single chain or double chains, horizontal or inclined, pans with or without additional buffer plates.

**Advantages:** low plant space needed due to very inclined versions possible.