



PCInet



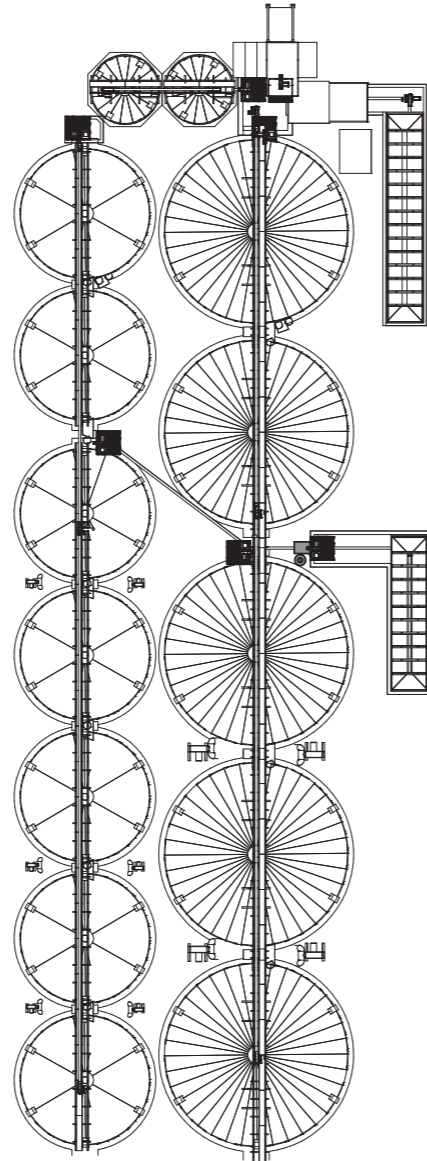
DESIGN | PRODUCTION | SERVICE

WAREHOUSE AND DRYING BASES
OUR PROJECTS

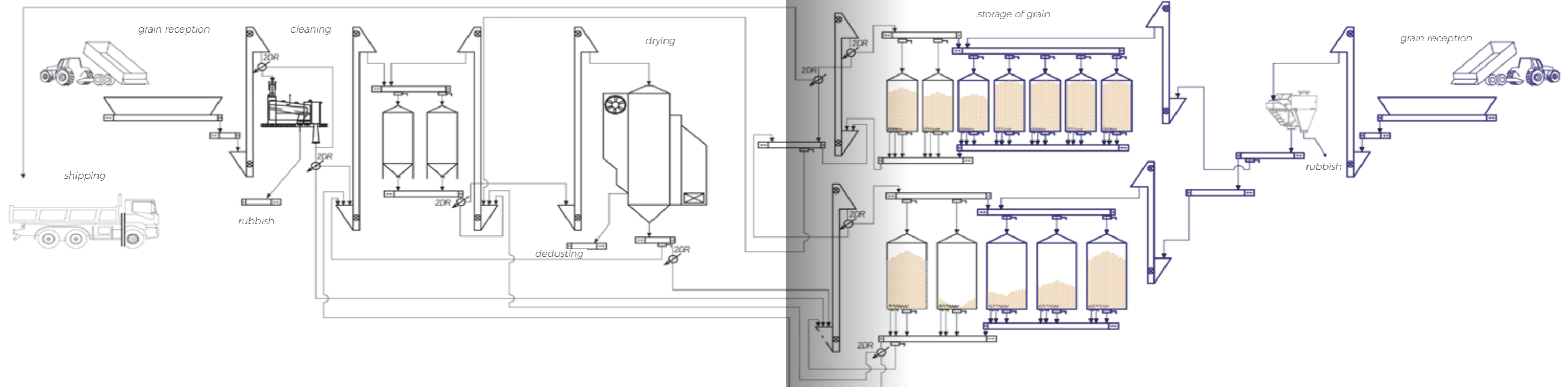


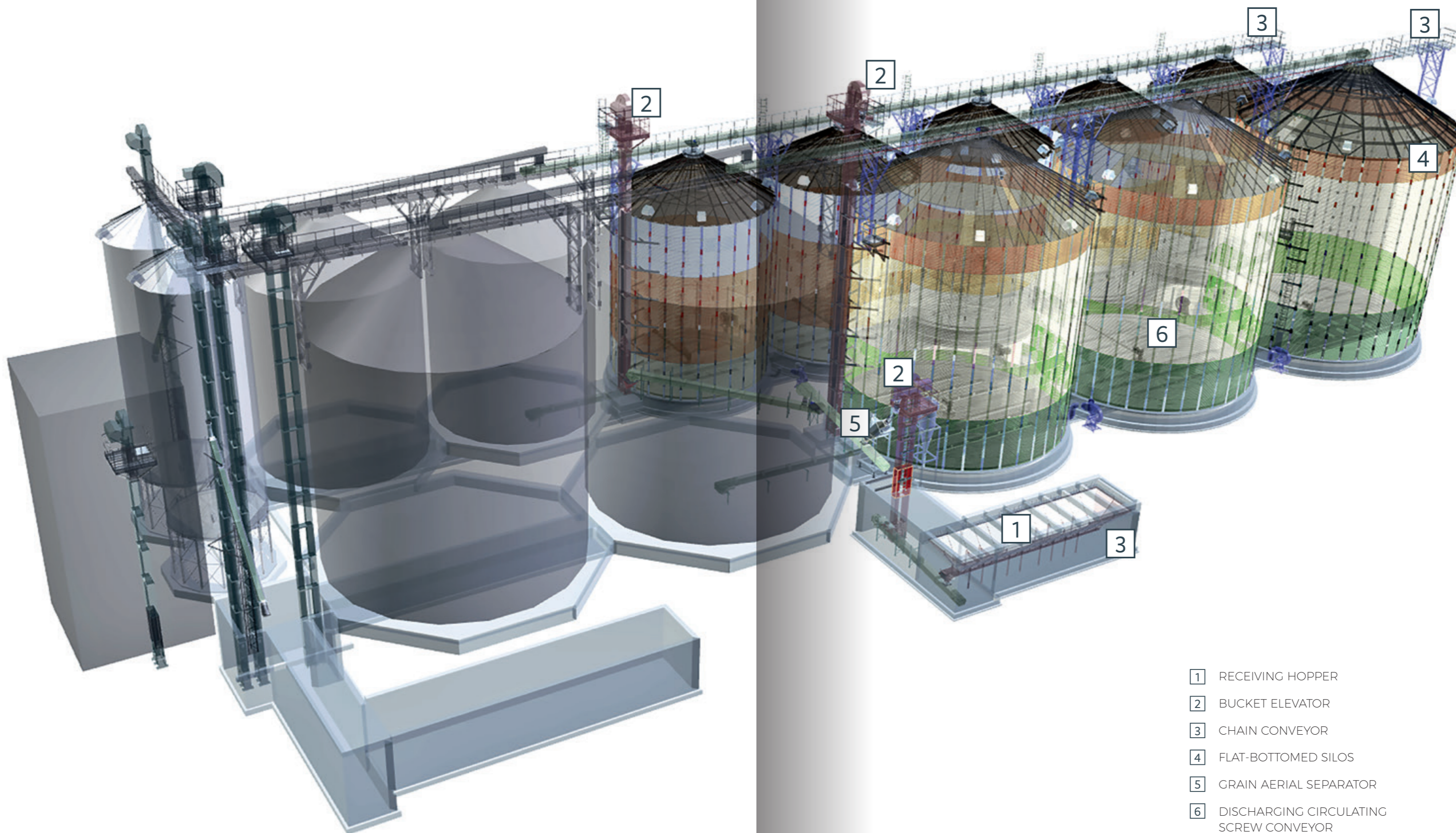
SCOPE OF THE INVESTMENT

- | Tank capacity of approx. 12,300 tonnes
- | **Flat-bottomed grain silos:**
 - 3 pieces with capacity of 2,450 tonnes
 - 5 pieces with capacity of 995 tonnes
- made of high-quality corrugated constructional steel with zinc coating of 450g/m²
- | Each silo equipped with a **circulating screw conveyor** for grains
- | **Cascade aerial separator** for pre-cleaning with capacity of 150t/h
- | **Receiving hopper chain conveyor** with capacity of 150t/h including the control unit by means of an inverter
- | **Chain conveyors** and **bucket elevators** performed in industrial technology with capacity of 150t/h
- | **Receiving hopper** with possible rear and side unloading
- | Heavy-type and drive **receiving hopper crane**
- | Delivery of an **electrical cabinet** with wiring, automatic control and connection adaptation to the existing warehouse and drying base



FLOW SCHEME





- 1 RECEIVING HOPPER
- 2 BUCKET ELEVATOR
- 3 CHAIN CONVEYOR
- 4 FLAT-BOTTOMED SILOS
- 5 GRAIN AERIAL SEPARATOR
- 6 DISCHARGING CIRCULATING SCREW CONVEYOR

Description of the equipment: p. 10-13



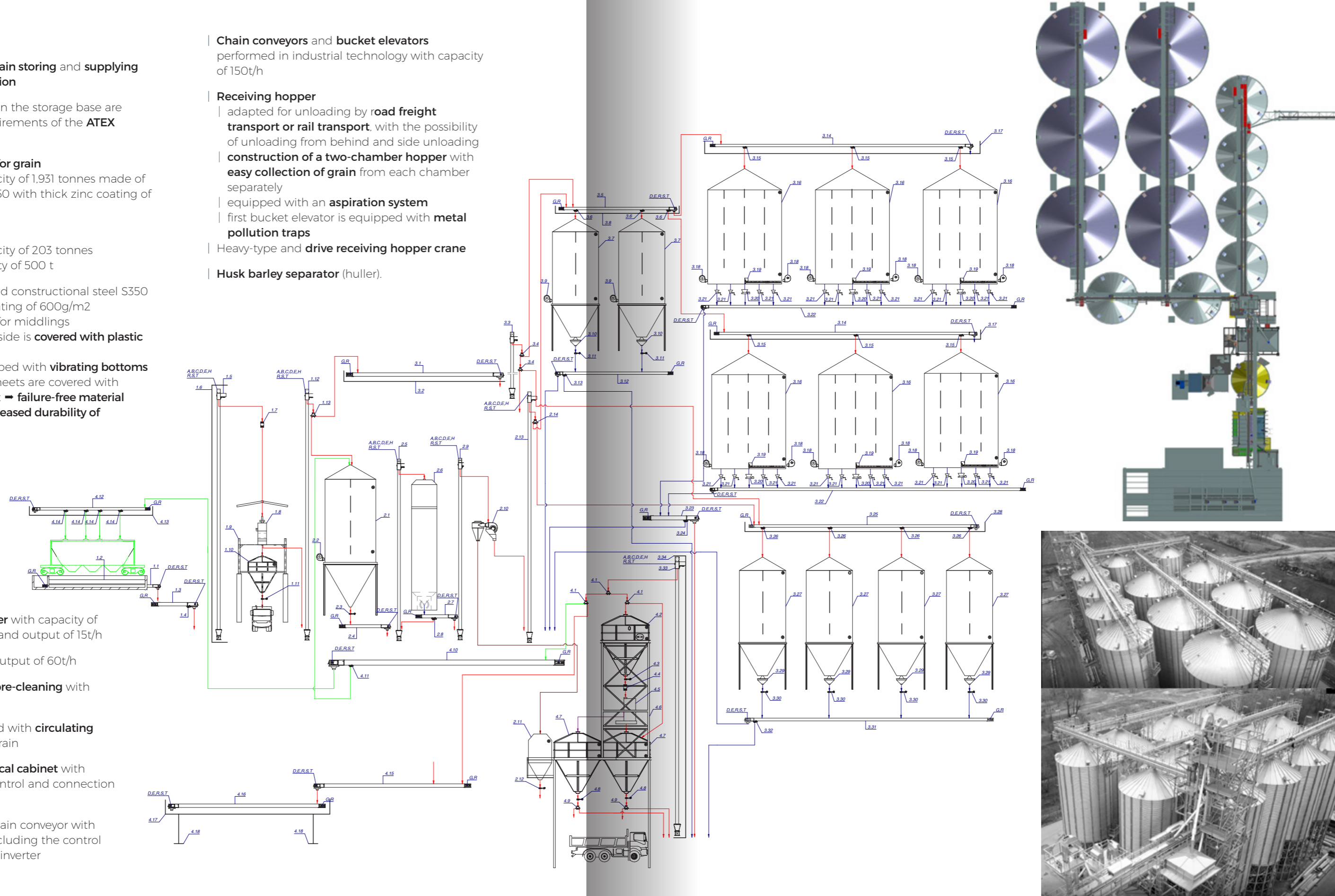
SCOPE OF THE INVESTMENT

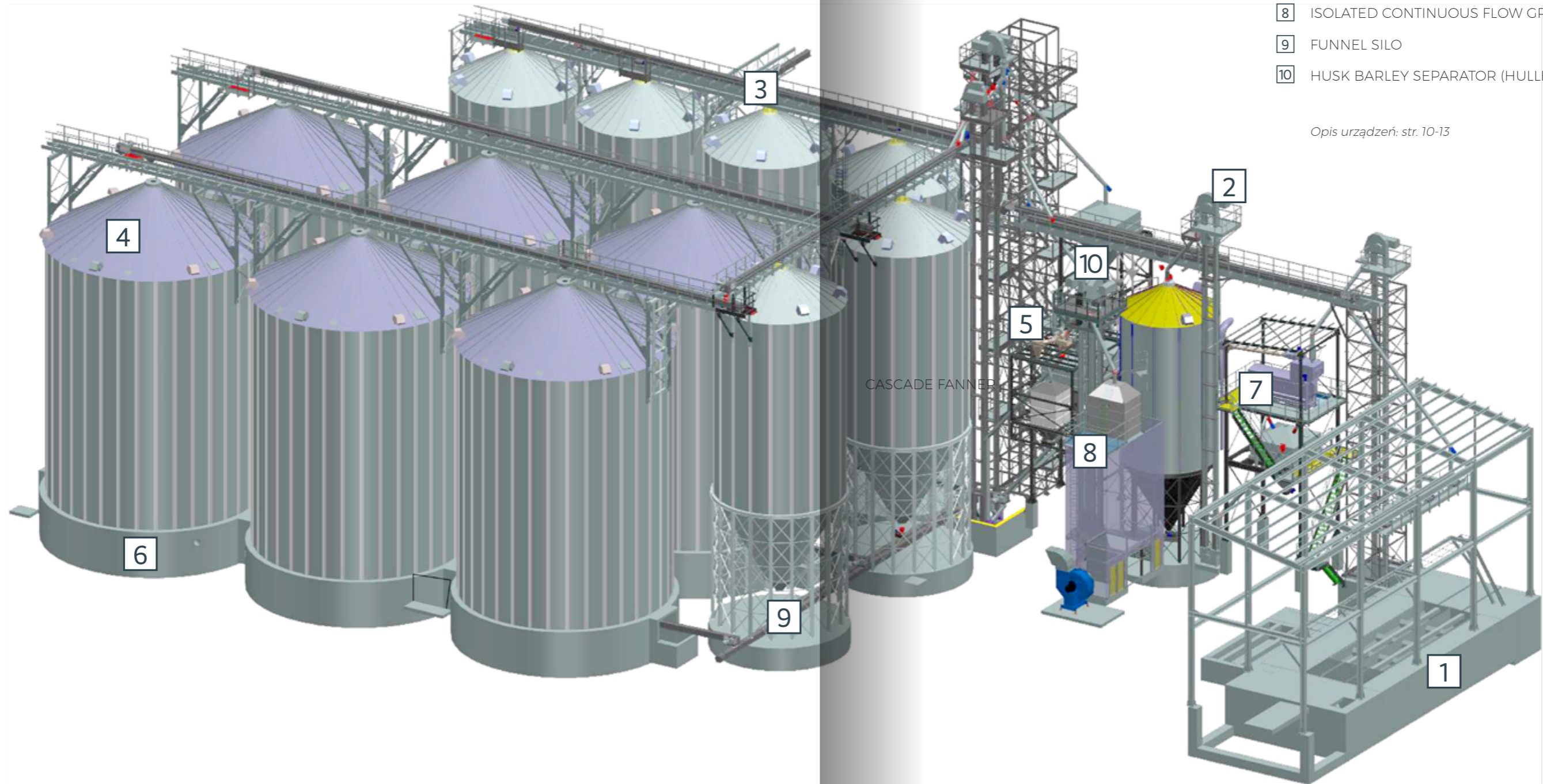
- | Capacity of 12,036 t
- | The role of base is **grain storing** and **supplying feed mixing production**
- | All devices installed in the storage base are adapted to the requirements of the **ATEX Directive**
- | **Flat-bottomed silos for grain**
 - 6 pieces with capacity of 1,931 tonnes made of corrugated steel S 350 with thick zinc coating of 600g/m²
- | **Grain funnel silos**
 - 6 pieces with capacity of 203 tonnes
 - 1 piece with capacity of 500 t
- | made of corrugated constructional steel S350 with thick zinc coating of 600g/m²
- | 60 degree funnel for middlings
- | funnel from inner side is **covered with plastic material**
- | additionally equipped with **vibrating bottoms**
- | internal cylinder sheets are covered with smooth (flat) sheet → **failure-free material discharge** and **increased durability of silos**

- | **Chain conveyors and bucket elevators** performed in industrial technology with capacity of 150t/h
- | **Receiving hopper**
 - | adapted for unloading by **road freight transport or rail transport**, with the possibility of unloading from behind and side unloading
 - | **construction of a two-chamber hopper** with **easy collection of grain** from each chamber separately
 - | equipped with an **aspiration system**
 - | first bucket elevator is equipped with **metal pollution traps**
- | Heavy-type and **drive receiving hopper crane**
- | **Husk barley separator (huller)**.

- | **Continuous flow dryer** with capacity of 22.2 tonnes of grain and output of 15t/h
- | **Drum cleaner** with output of 60t/h
- | **Cascade fanner for pre-cleaning** with output of 60t/h
- | Each silo is equipped with **circulating screw conveyor** for grain
- | Delivery of an **electrical cabinet** with wiring, automatic control and connection adaptation
- | **Receiving hopper chain conveyor** with capacity of 150t/h including the control unit by means of an inverter

FLOW SCHEME





- 1 OVERRUNNING RECEIVING HOPPER
- 2 BUCKET ELEVATOR
- 3 CHAIN CONVEYOR
- 4 FLAT-BOTTOMED SILOS
- 5 CASCADE FANNER
- 6 GRAIN AERIAL SEPARATOR
- 7 CIRCULATING SCREW CONVEYOR
- 8 ISOLATED CONTINUOUS FLOW GRAIN DRYERS
- 9 FUNNEL SILO
- 10 HUSK BARLEY SEPARATOR (HULLER).

Opis urządzeń: str. 10-13



1 RECEIVING HOPPER

Dimensions 3 x 13 m with drop sheet, frame and heavy hopper crane. Equipped with chain conveyor of 150t/h with output adjustment by means of an inverter

- | made in industrial technology
- | made entirely of corrugated constructional steel with thick zinc coating of 350g/m²



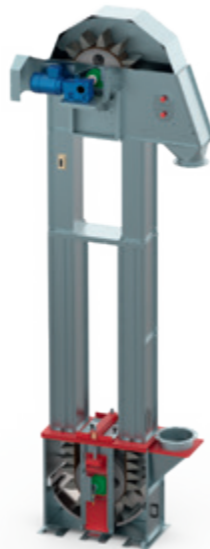
MOBILE RECEIVING HOPPER

RECEIVING HOPPER ON THE REDLER



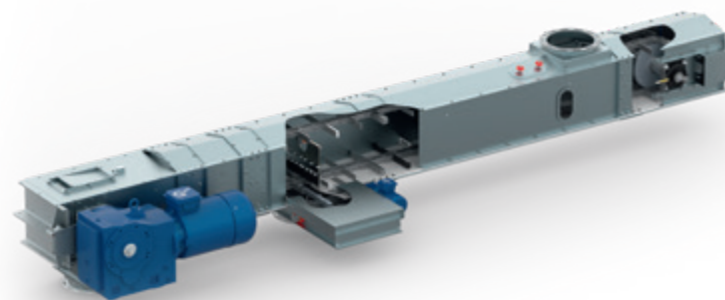
2 BUCKET ELEVATOR

- | Made in industrial technology
- | Made entirely of corrugated constructional steel with thick zinc coating of 350g/m²
- | NORD gearmotor
- | UCF branded bearing brackets
- | Belt return stop mechanical brake belt slip sensor
- | Elevator equipped with four-transmission belt and STARCO pumped buckets.
- | The interior of the bucket head with wear-resistant lining
- | Inspection opening in the elevator head
- | The whole tightened with screws of 8.8 class zinc coating equipped with service platform and entrance ladder



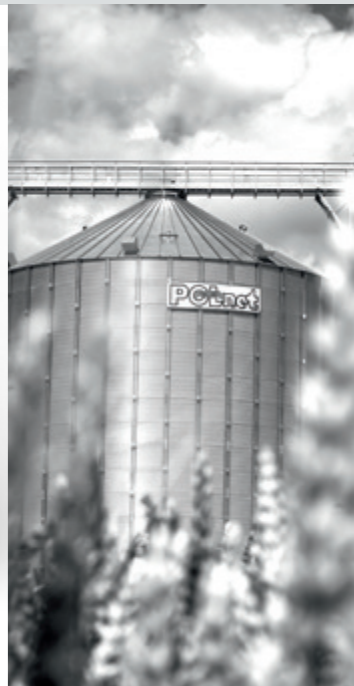
3 CHAIN CONVEYOR

- | Made in industrial technology
- | made entirely of corrugated constructional steel with thick zinc coating of 350g/m²
- | On the conveyor bottom there is chain guide made of wear-resistant material
- | NORD gearmotor
- | The conveyor bottom with wear-resistant lining
- | Chain blades with Teflon cap
- | Equipped with bearing brackets and UCF bearing
- | Branded bearings
- | The whole tightened with screws of 8.8 class zinc coating
- | Full return wheel
- | Inspection hole on the conveyor drive part
- | Tension segment with mechanical tensioner
- | Inspection channel for drive parts
- | Chain conveyor protection against overfilling for drive parts
- | Equipped with self-cleaning system



4 FLAT-BOTTOMED SILO

- | Side walls: corrugated constructional steel S350 with zinc coating of 350g/m².
- | Roof: zinc coated steel 350g/m².
- | The whole tightened with screws of 8.8 class zinc coating
- | Silo reinforcement: constructional steel S350 with zinc coating of 350g/m².
- | Silo's perforated floor (grids to concrete channels)
- | Roof venting valves
- | Side hatch
- | Roof hatch
- | Entrance ladder
- | Service platforms
- | A set of anchors
- | Equipped with: grain level sensor, temperature control system, roof turbo fan, venting fan, circulating screw conveyor taking grain residues from the silo bottom, operating platform (gallery) for chain conveyor on the silo roof.



5 CASCADE FANNER

With undusting cyclone equipped with manual draught regulator with HARDOX wear-resistant lining.



6 CIRCULATING SCREW CONVEYOR DISCHARGER

- | Construction adjusted to the silo diameter
- | Device casing secured with anti-corrosion protection through galvanization.
- | Possible assembly of the equipment in the existing flat-bottomed silo.
- | Drive by means of rubber wheel
- | Height-adjustable drive wheel
- | Capacity control
- | Chain gearbox
- | Drive with use of NORD gearmotor
- | Branded UCF bearings





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DRUM CLEANER

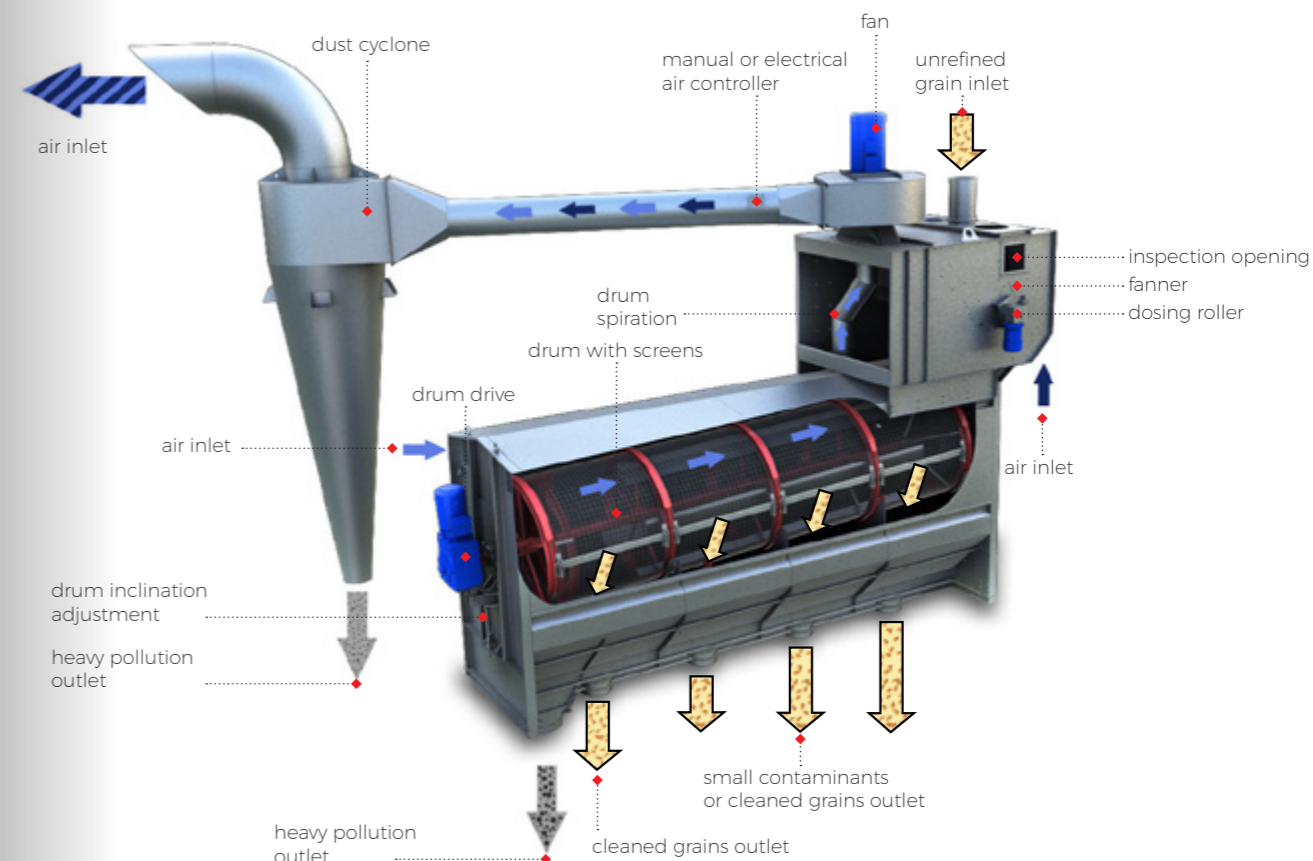
Drum-screen cleaners for appropriate and accurate pre-cleaning and calibration of all kinds of grain. The cleaning unit consist of two main components- fanner and drum with replacable screens. The cleaning is based on separating undesirable light impurities from seeds like dust, husk and chaff in the fanner.

Features:

- | Drum-screen with zinc coating, drum drive – gearmotor NORD®
- | Pre-cleaning output: grain of with moisture of 15% -120 t/h
- | Installed electricity output 12.8 kW
- | Maximum air consumption: 6 400 m³/h
- | Screen surface : 15.0 m²

Equipment:

- | Dust separator with exhaust terminal
- | Airflow adjuster – electronically controlled
- | Grain spreader
- | Cleaning drum aspiration
- | Cleaning drum inclination adjustment with worm gear (electrical control in option).
- | A set of screens: (4 screens per species of seed)



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CONTINUOUS FLOW DRYER

Main advantages:

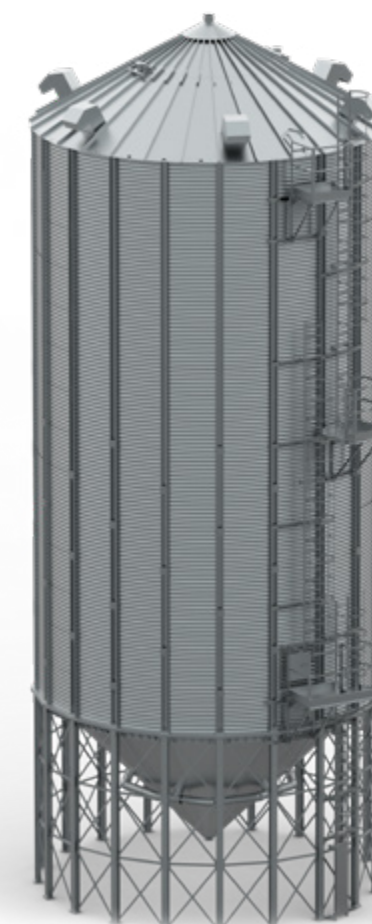
- | The dryer is equipped with Energy recovery system for cooling section
- | The dryer fully insulated with 60- or 80-thick sandwich panels
- | The dryer with no thermal bridges – no condensate inside the unit
- | Made of construction steel S350, Z350 g/m² zinc
- | Suszarnie posiadają wysokociśnieniowy wentylator odśrodkowy
- | Dryers equipped with high-pressure centrifugal fan
- | Exhaust fans located at the „0” level which enables maintenance and limits the scope of pollution and noise level
- | Dryers equipped with RIELLO
- | The dryer equipped with SIEMENS automatics
- | The dryer equipped with unloading buffer which eliminate the continuous operation of the unloading conveyor
- | The unit equipped with big loading buffer which excludes possible Energy loss through „left air” suction
- | Possible installation of additional undusting system
- | Possible installation of partial roof closing system and drying small portions in the portion mode
- | Possible performance of the dryer in any RAL colour



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FUNNEL SILOS

- | The main advantage of this kind of silo is quick silo unloading
- | We offer standard silos with capacity of between 94 and 1,055 tonnes
- | Made of CORRUGATED construction steel with zinc coating of 350 g/m²
- | They are used for long-term storage of grains and also as cached silos close to dryers and cleaners
- | Funnel at a 45 degree angle allows quick and easy emptying of the silo, whereas proper corrugation angle prevents depositing grains on the walls
- | Aerate system, assured as standard equipment, maintain grain in good condition.
- | Additional advantage of using corrugated steel in cylindrical part of silos is refracted sun lights, to prevent excessive heating of the storage material during the summer
- | We can also provide funnel silo for lumping material, e.g. press cake, middlings etc.





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RAIN SILO

FLAT-BOTTOMED, FUNNEL AND WITH INTERNAL FUNNEL made of corrugated steel with a capacity of 30 TO 15 000 tonnes



FEED MIXERS

Farm and industrial. a technology tailored to individual needs of customers.



FEED SILO

MADE OF CORRUGATED STEEL with a capacity of 2 to 50 tonnes



AUTOMATICS

Comprehensive control systems based on PLC drivers and PCs as well as Siemens components. Designed and performed in accordance with the facility technology defined and approved by a customer.



FORWARDING

Circular or square tanks with a capacity of 15-120 tonnes. Funnel angle of 45- 60 degrees.



DRYERS

Stationary, batch or continuous with the output of 20-3,000 t/day. We also offer grain coolers, undusting systems and silencers



RECEIVING HOPPER

Gravity on the chain and screw conveyors with the output of 20-300 t/h. Equipped with standard or overrun crane.



CLEANERS

For pre-cleaning and throughout cleaning with the output of 20 to 240 t/h.



GRAIN TRANSPORT

A wide range of transportation systems: vertical – bucket elevator and horizontal – belt, screw or chain conveyors: the scope of output of 10-300 t/h.



COMPREHENSIVE PROJECTS

- | turn-key projects
- | construction, execution designs and investment cost estimates
- | ground and foundation works
- | tool production and supply
- | installation
- | service



silos



feed mills



pig



poultry



vet