

KOBLiK GROUP

2022/23



ELEVATOR EQUIPMENT CATALOGUE

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PURCHASING COMPLEX UP TO 153,000 TONS
ZHAK Venyov Elevator Complex, Tula Region



PRODUCTION ELEVATOR (FOR COMPOUND FEEDS) UP TO 130,500 TONS
Ecomix GC, Voronezh Region, Pavlovsky district, Gavrilsk settlement



ELEVATOR COMPLEX (COMPOUND FEED MILL) UP TO 127,000 TONS
TMK, Tula Region, Kurkino settlement



VERSATILE ELEVATOR UP TO 50,000 TONS
MTK "Standard-S" OOO, Argun, the Chechen Republic.



ELEVATOR AT THE OIL MILL UP TO 47,000 TONS
Mamruko OOO, Republic of Adygea



PRODUCTION ELEVATOR (VEGETABLE OILS) UP TO 43,500 TONS
Orelstrastmaslo OAO, Orel Region.



PURCHASING COMPLEX (FODDER) – STORAGE UP TO 42,500 TONS
 Novomarkovskoye SKhP OOO (Molvest AKh), Novomarkovka village, Voronezh Region.



PURCHASING ELEVATOR UP TO 16,000 TONS
 Kastornoye-Agro-Invest ZAO, Kursk Region, Gorshechny district, Bykovo settlement



PURCHASING COMPLEX (COMPOUND FEEDS) UP TO 10,500 TONS
 Ryazansky Svinokomplex AO, Ryazan Region

ALFA

ALFA 050 / ALFA 100 / ALFA 150 / ALFA 200

PRE-CLEANING SEPARATOR



capacity
50 – 200 t/h

ALFA grain cleaning machine is designed for preliminary cleaning of the grain heap of grain cereals, cereal crops, grain legumes, corn, sorghum or sunflower received from the field from impurities and is suitable for operating in the stationary production lines, in all climatic conditions

ALFA 050



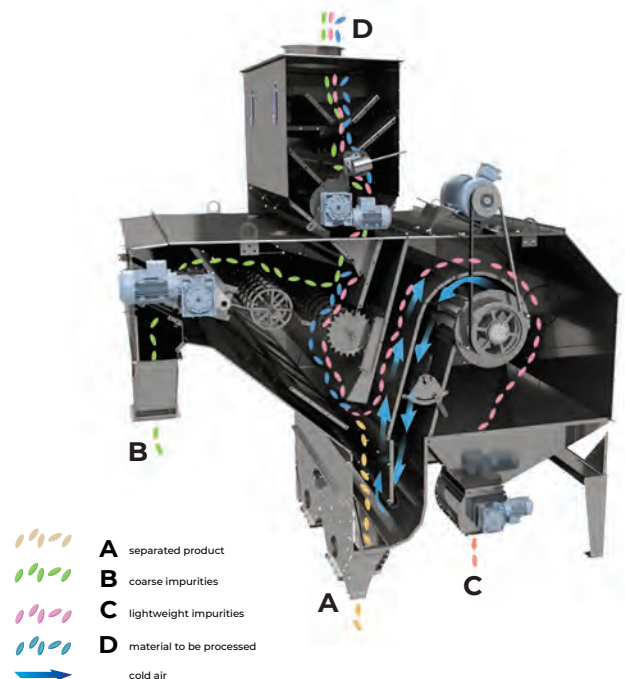
ADVANTAGES

- EASE OF MAINTENANCE**
removable screen conveyor unit enables maintenance within minutes
- PERFORMANCE AT ANY HUMIDITY**
sluice gate for light impurities prevents buildup and ensures efficient waste discharge
- PRODUCT DISTRIBUTION ACROSS THE ENTIRE WIDTH**
of the screen conveyor thanks to the beater
- UNIFORM FEEDING**
into the aspiration intake channel. Additional splitter damper separates the product flow streams
- EFFICIENT CLEANING OF LIGHT IMPURITIES**
cross flow fan of greater capacity evenly blows air across the entire width of the suction duct
- ULTRA-RELIABLE GEAR MOTOR AND ELECTRIC MOTOR**
for trouble-free operation of the machine
- CORROSION-RESISTANT HOUSING**
made of high-quality galvanized steel offers a longer service life
- VERSATILITY**
fine adjustment of “winds” for different products

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE			
	ALFA 050	ALFA 100	ALFA 150	ALFA 200
Min. rated capacity [t/h]	50	100	150	200
Dimensions with storage hopper (L/W/H) [mm]	2,900 1,795 3,150	2,900 1,795 3,350	3,045 1,795 3,350	3,045 1,985 3,350
Weight with a complete set of tools [kg]	980	1,180	1,250	1,300
Total installed power [kW]	6.22	6.22	7.72	9.72
Aspiration air flow [m³/h]	800 – 1,200			

PROCESS FLOW DIAGRAM



GAMMA

ASPIRATION COLUMN



capacity up to
100 t/h

GAMMA aspiration column is designed to separate grain from its peeling products and impurities with aerodynamic properties



GAMMA 100

ADVANTAGES

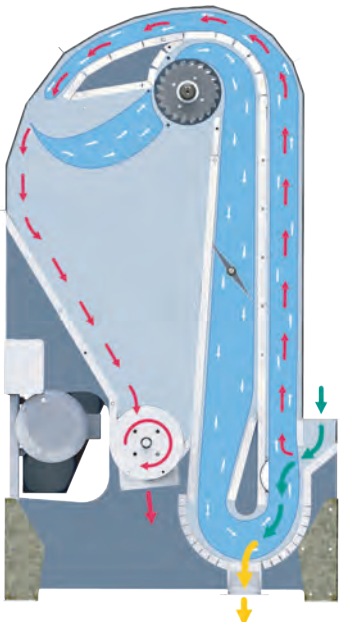
EFFECTIVELY COMPLEMENTS
all screen cleaners of domestic and foreign manufacturers

ADJUSTABLE AIR FLOW
passing through the grain mass, for separating not only the light impurities but also shrunk and crushed grain, as well as seeds of weeds

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
	GAMMA 100
Rated capacity [t/h]	up to 100
Dimensions (L/W/H) [mm]	2,476 930 1,846
Fan speed [rpm]	700 – 900
Total weight [kg]	4,450
Max. total installed power [kW]	3.55
Aspiration air flow [m ³ /h]	3,000 – 6,000

PROCESS FLOW DIAGRAM



- ← Incoming material
- ← Processed material
- ← Lightweight impurities
- ← Air flow of the aspiration section

ALFA MGC

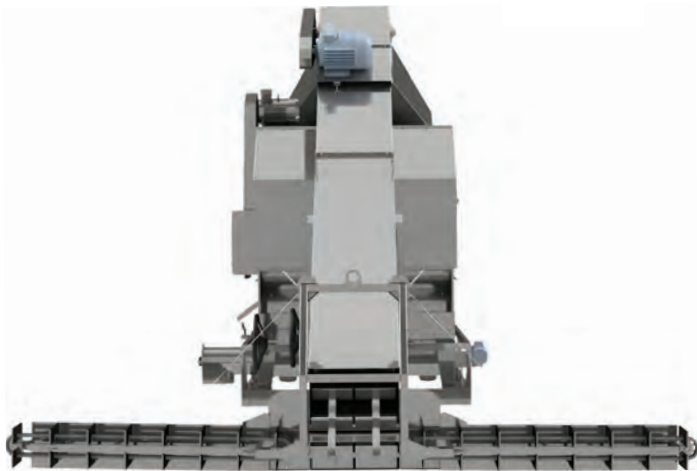
ALFA MGC 100 / ALFA MGC 150

MOBILE GRAIN CLEANING COMPLEX



capacity
80 – 150 t/h

LFA MGC (Mobile Grain Complex) independently loads the grain heap of grain cereals, cereal crops, grain legumes, corn, sorghum or sunflower received from the field into the receiving compartment, cleans it, and unloads the grain cleaned of impurities into the truck or makes a new pile



ALFA MGC 150

ADVANTAGES

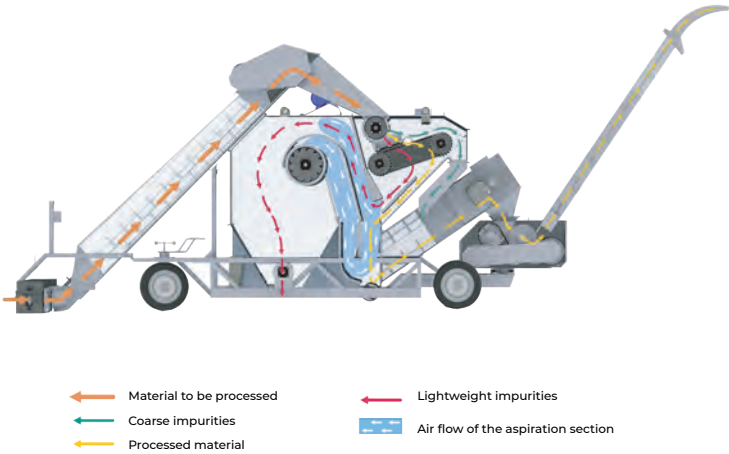
- RAPID GRAIN LOADING AND UNLOADING SYSTEM**
effective for preliminary cleaning of the incoming grain, legumes and oil crops from weed impurities
- PROCESSES PEAK PRODUCT FLOWS IN A TIMELY MANNER**
during harvesting
- UP TO 10 HARVESTERS**
handled at the same time
- EASY TO MOVE**
to any job site using a wheeled chassis



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE	
	ALFA MGC 100	ALFA MGC 150
Rated capacity [t/h]	up to 80	up to 150
Dimensions (L/W/H) [mm]	8,800 2,110 3,500	8,900 2,110 3,525
Weight with a complete set of tools [kg]	2,300	2,500
Total installed power [kW]	16.05	24.75

PROCESS FLOW DIAGRAM



AIR

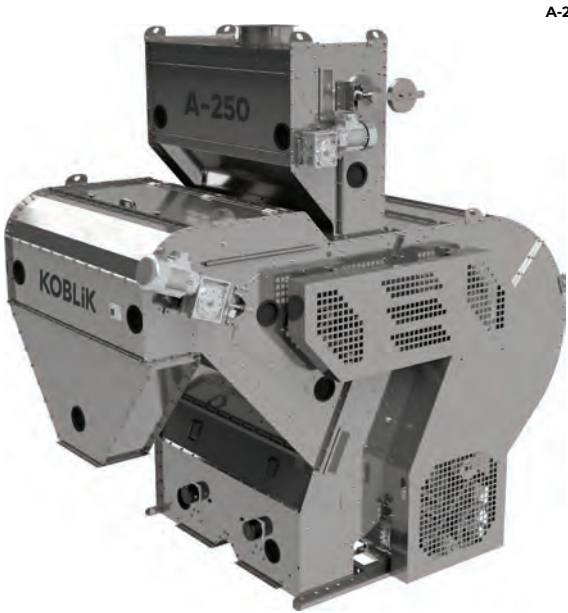
A-075 / A-125 / A-175 / A-250

PRE-CLEANING SEPARATOR



capacity
75 – 250 t/h

The separator is designed for preliminary (acceptance) separation of the grain heap of grain cereals, grain legumes, cereal crops, industrial crops and oil crops, as well as grass seeds from lightweight and coarse impurities. The main purpose is to prepare the grain heap for drying and increase the efficiency of its subsequent cleaning. The separator can be used both on small farms and on the largest grain elevators



A-250

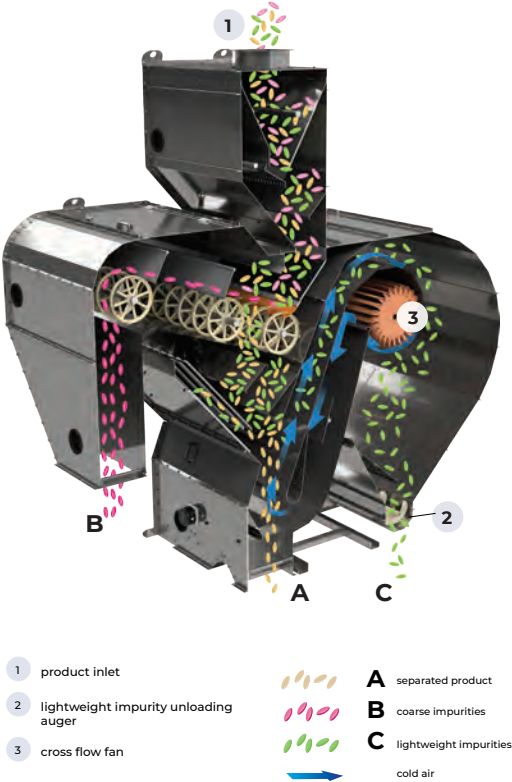
ADVANTAGES

- IMPROVED RELIABILITY**
thanks to heavy-duty components
- PRECISE GEOMETRY**
ensured by bolted joints that rule our welding deformations
- IMPROVED WEAR RESISTANCE**
thanks to the lining of the most stressed separator parts
- MINIMAL GRAIN DAMAGE**
no auger feeders

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE			
	A-075	A-125	A-175	A-250
Min. rated capacity [t/h]	75	125	175	250
Dimensions (L/W/H) [mm]	2,970 1,845 2,710	2,970 1,845 2,865	3,155 1,845 2,865	3,155 1,845 3,125
Wire mesh conveyor working area length [mm]	800	800	1,025	1,025
Wire mesh conveyor working area width [mm]	1,265			
Weight with a complete set of tools [kg]	1,235	1,320	1,550	1,600
Total installed power [kW]	8.6	12.85	13.25	13.25
Aspiration air flow [m³/h]	1,000			
Wire mesh conveyor shaft speed [min⁻¹]	70			

PROCESS FLOW DIAGRAM



UNIVERSAL

U-060 / U-120 / U-160 / U-250

HIGH-PERFORMANCE VERSATILE SEPARATOR



capacity
60 – 250 t/h

For preliminary, primary (commercial) and secondary separation of the grain heap of grain cereals, grain legumes, cereal crops, industrial crops and oil crops, as well as grass seeds from lightweight, fine and coarse weed impurities. The machines are appreciated at large grain elevators, seed producers, and compound feed mills

ADVANTAGES

- HIGH RELIABILITY**
thanks to high strength steels and quality components
- LONG SERVICE LIFE**
thanks to galvanized steel
- TOTAL LACK OF VIBRATION**
during operation



NEW!

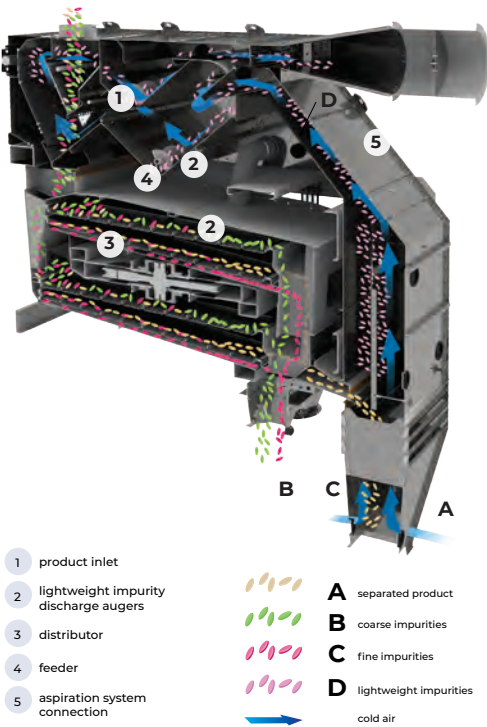
U-120

- PRECISE GEOMETRY**
ensured by bolted joints that rule out welding deformations
- SIEVE SHOE OVERRUN SENSOR**
indicates malfunctioning

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE			
	U-060	U-120	U-160	U-250
Min. rated capacity [t/h]				
for preliminary separation	60	120	160	250
for primary separation	30	60	80	120
for secondary separation	15	30	40	60
Dimensions (without fan and suction system (L/W/H)) [mm]	3,740	3,900	3,900	4,500
	2,700	2,700	3,160	3,160
	2,780	3,500	3,500	4,500
Total area of sieves [m²]	12	24	32	48
feeder screen (inlet)	6	12	16	24
cleaning (main)	6	12	16	24
Device weight including the tools (fan and aspiration system excluded) [kg]	4,600	6,300	7,200	8,700
Total installed power (fan and aspiration system excluded) [kW]	2.99	3.78	3.82	4.82
Minimum aspiration air flow [m³/h]	6,000	8,400	11,400	17,100

PROCESS FLOW DIAGRAM



PROFI

P-150 / P-200 / P-400

HIGH-PERFORMANCE SEPARATOR



capacity

150 – 400 t/h

The separator is designed for preliminary and primary (commercial) separation of the heap area of grain cereals, grain legumes, cereal crops, industrial crops and oil crops, as well as grass seeds from lightweight and coarse impurities. Appreciated at oil mills, small and medium households, and elevators.

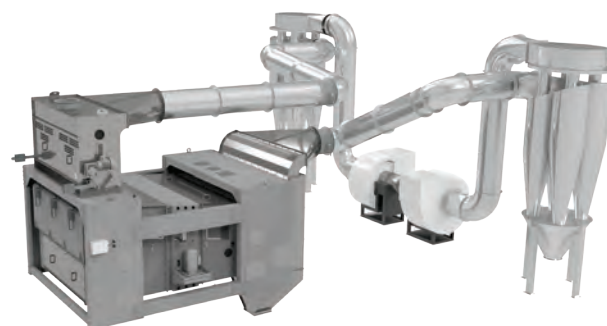
ADVANTAGES

- **EASY MAINTENANCE**
all basic assemblies are easily accessible, removable housing panels
- **SIMPLE, INDEPENDENT ASPIRATION SYSTEM**
minimum number of parts, supplied separately
- **NO VIBRATION**
thanks to circular oscillations of the sieve shoe
- **PRECISE GEOMETRY**
ensured by bolted joints that rule out welding deformations
- **LONG SERVICE LIFE**
thanks to galvanized parts



NEW!

P-400

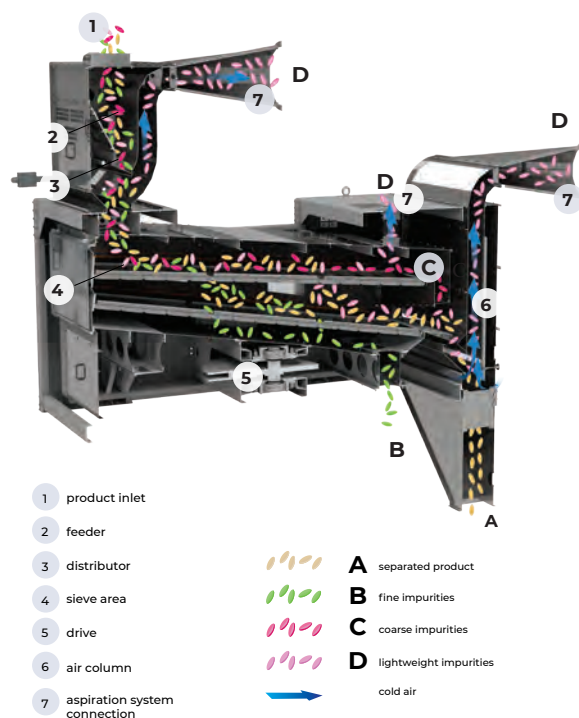


P-200 WITH ASPIRATION SYSTEM

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE		
	P-150	P-200	P-400
Min. rated capacity [t/h]			
for coarse separation	150	200	400
for preliminary separation	60	80	200
for primary separation	30	50	100
Dimensions (L/W/H) [mm]	4,690	5,470	5,950
	2,280	3,015	3,040
	2,685	3,090	4,440
Total sieve area [m²]	12	24	
feeder screen (inlet)	6	12	
cleaning	6	12	
Max. device weight including the tools (fan and aspiration system excluded) [kg]	3,720	4,600	6,930
Max. total installed power [kW]	2.95	2.95	3.75
Max. aspiration air flow [m³/h]	16,800	34,000	

PROCESS FLOW DIAGRAM



BETA

BETA 060 / BETA 120 / BETA 180 / BETA 240

GRAIN CLEANING SEPARATOR



capacity

50 – 200 t/h

Versatile sieve grain cleaning machine is designed for cleaning grain crops, grain legumes, and oilseed crops. Durable and reliable thanks to high-quality galvanized steel, proven gear motors, as well as a simple drive, bolted structure, and reinforced frame

ADVANTAGES

- Efficient performance**
low electricity consumption
- EFFICIENCY**
even product distribution across the entire sieve width.
Sieve surface utilization factor is 98%
- CONVENIENT SWITCHING**
of sieve operation modes
- WEAR-RESISTANT VIBRATING SCREEN**
made of galvanized steel. The sieves are cleaned with rubber balls
- EASE OF MAINTENANCE**
hatches for easy cleaning of hard-to-reach areas, free access to components and units
- PROCESS FLEXIBILITY**
trays can be turned to either side of the machine
- PRIMARY CYCLE EFFICIENCY**
no product carry over and stray drifts
- VERSATILITY**
inlet aspiration and optional outlet aspiration

KEY TECHNICAL DATA

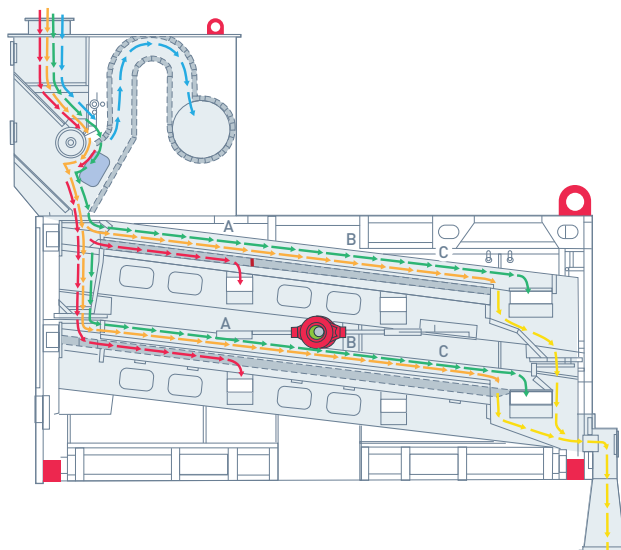
PARAMETER DESCRIPTION	BETA 060		BETA 120		BETA 180		BETA 240	
	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B
BETA industrial-type Min. rated capacity [t/h]								
Preliminary cleaning [t/h]	50		100		150		200	
Primary cleaning [t/h]	25		50		75		100	
BETAVersatile Min. rated capacity [t/h]								
Preliminary cleaning [t/h]	50		100		150		200	
Primary cleaning [t/h]	25		50		75		100	
Seed cleaning [t/h]	5		10		18		25	
Dimensions (L/W/H) [mm]								
BETA industrial-type	3,700	4,500	3,700	4,500	4,200	5,000	4,200	5,000
	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	2,700	2,700	3,300	3,300	4,500	4,500	5,000	5,000
BETAVersatile	4,000	4,800	4,000	4,800	4,900	5,700	4,900	5,700
	2,200	2,200	2,200	2,200	2,200	2,200	2,200	2,200
	2,900	2,900	3,500	3,500	4,500	4,500	5,000	5,000
Sieves area [m²]	6		12		18		24	
Weight [kg]	1,900	2,200	3,900	4,200	4,250	4,800	5,050	5,500
Total installed power (aspiration system excluded) [kW]	3		5.5		8.25		8.6	
Aspiration air flow [m³/h]	5,000	10,000	5,000	10,000	5,000	10,000	5,000	10,000

BETA 120



PROCESS FLOW DIAGRAM

BETA (SENIOR MODELS)



- | | | | |
|--------------|------------------------|--|-------------------|
| A B C | A, B, C Sieves | | Fine impurities |
| | Grain heap | | Forage |
| | Air flow | | Clear grain |
| | Lightweight impurities | | Coarse impurities |

OMEGA

PRE-CLEANING AND PRIMARY CLEANING SEPARATOR



capacity up to
120 t/h

The new machine combines in one separator the preliminary (coarse) and primary (commercial) cleaning of all crops. A combination of a sieve system and an air separation system offers high-quality cleaning of grains, pulses, oilseeds, and other crops

NEW!

OMEGA 120



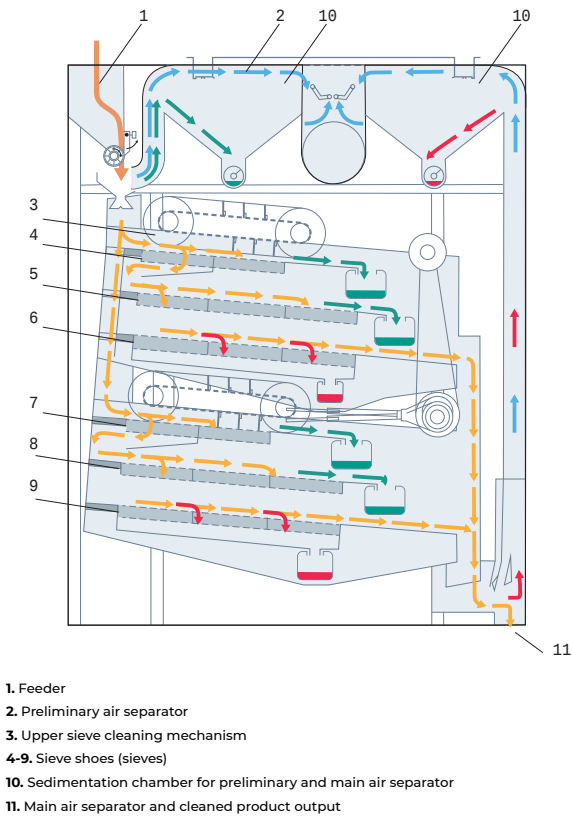
ADVANTAGES

- HIGH THROUGHPUT CAPACITY**
even when handling wet and heavily contaminated product
- LOW SIEVE SPECIFIC LOAD**
thanks to two sieve shoes and six sieve planes with a working width of 1,200 mm
- HIGH DEGREE OF LIGHT IMPURITIES REMOVAL**
with a massive dual-channel airflow
- EQUAL DISTRIBUTION OF RAW MATERIALS OVER THE ENTIRE WORKING SURFACE OF THE MACHINE**
the well-proven ball cleaning system and chain scraper minimize the risk of clogging
- EASY MAINTENANCE**
removable frames for ball replacement

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
	OMEGA 120
Min. rated capacity [t/h]	
Preliminary cleaning [t/h]	120
Commercial cleaning [t/h]	60
Dimensions (L/W/H) [mm]	3,750
	1,700
	3,805
Working width [mm]	1,200
Sieves area [m²]	13.44
Total weight [kg]	4,450
Fan [kW]	11 – 15
Sieve drive [kW]	7.5
Feeding profiled roller [kW]	0.37
Main air separator discharge auger [kW]	2 x 0.37
Sieve cleaning mechanism (option) [kW]	2 x 0.37
Aspiration air flow [m³/h]	9,000

PROCESS FLOW DIAGRAM



Z

Z-025 / Z -050

PRIMARY GRAIN CLEANER



capacity up to
50 t/h

For primary separation of the grain heap of grain cereals, grain legumes, cereal crops, industrial crops and oil crops, as well as grass seeds from lightweight, fine and coarse weed and grain impurities. Appreciated at small and medium households. The machine is long proven and well known among farmers. Here is information on the latest generation of this model



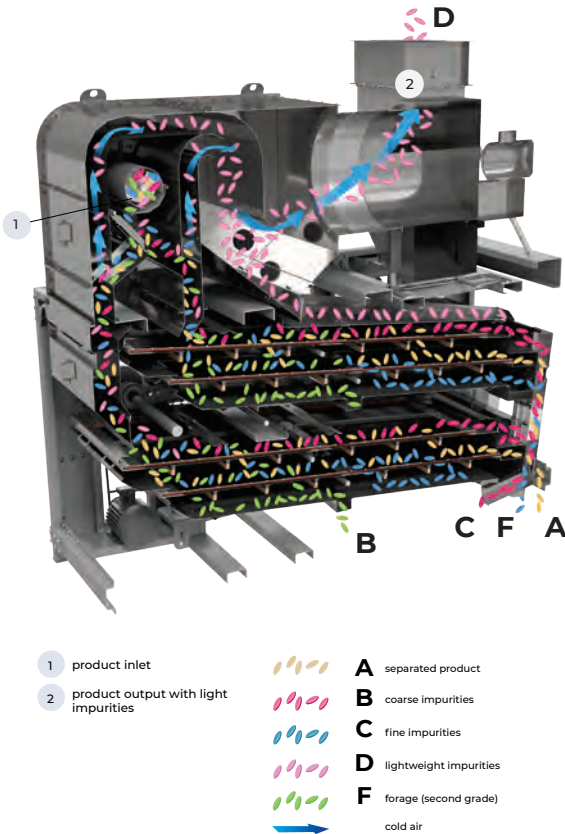
ADVANTAGES

- LOW-COST**
when reconstructing the grain cleaning plants
- HIGH RELIABILITY**
thanks to the new drive layout of the sieve shoes
- LONG SERVICE LIFE**
by using high-quality galvanized steels
- TWO MACHINE VERSIONS:**
right and left grain loading to increase process flexibility

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE	
	Z-025	Z-050
Min. rated capacity [t/h]		
- for preliminary separation	-	50
- for primary separation	25	
Dimensions (L/W/H) [mm]	3,050	
	1,985	
	2,860	
Total area of sieves [m²]	11.7	
Max. machine weight [kg]	2,340	
Max. total installed power [kW]	8.45	
Minimum aspiration air flow [m³/h]	6,500	

PROCESS FLOW DIAGRAM



VARIO

V-120 / V-150

PRIMARY GRAIN CLEANER



capacity over
12 t/h

for high-quality cleaning of grain heap of grain cereals, grain legumes, cereal crops, industrial crops and oil crops as well as other loose products

The machine can be used for preliminary, primary and seed cleaning. High cleaning quality is ensured by the combination of the sieve part and the aspiration system

NEW!

V-120



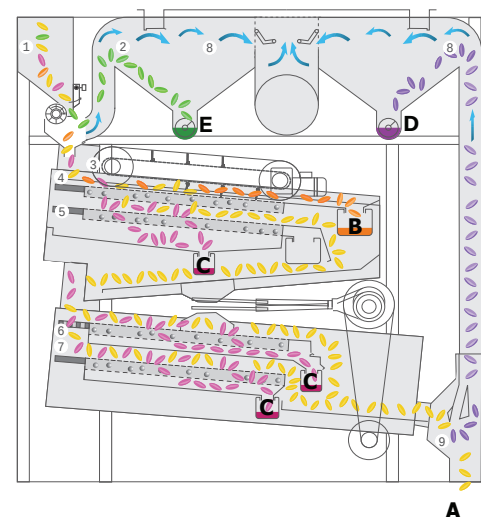
ADVANTAGES

- **HIGH THROUGHPUT CAPACITY**
even when handling wet and heavily contaminated material
- **EXTENDED SERVICE LIFE**
due to the low vibration provided by the two balanced sieve shoes
- **QUICK REPLACEMENT OF WORN BALLS**
due to removable sieve frames
- **DUAL EFFECTIVE CLEANING SYSTEM**
with balls and a scraper conveyor, for even distribution of material across the working width of the sieve shoes
- **QUICK AND PRECISE AIRFLOW RATE ADJUSTMENT**
at the outlet and inlet with separate adjustment of the air separator

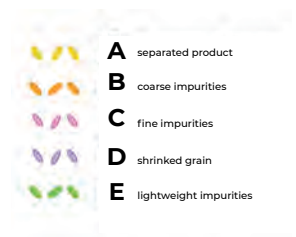
KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
Total installed power [kW]	9.35
Max. dimensions in operating position [mm]	
- length	3,750
- width	1,700
- height	3,700
Total area of sieves [m ²]	10.1
Max. machine weight with a set of work tools [kg]	4,000
Min. rated capacity [t/h]	
- for preliminary separation	70
- for primary separation	35
- for seed cleaning	12
Minimum aspiration air flow [m ³ /h]	9,000

PROCESS FLOW DIAGRAM



- 1 feeder
- 2 preliminary air channel
- 3 scraper conveyor/sieve cleaner
- 4 sieve plane 1 in the upper sieve shoe
- 5 sieve plane 2 in the upper sieve shoe
- 6 sieve plane 3 in the upper sieve shoe
- 7 sieve plane 4 in the upper sieve shoe
- 8 sedimentation chamber for preliminary and main air channel
- 9 main air separator and cleaned product output



TRIER

T-080 / T -120

TRIER GRAIN SEPARATOR



capacity

7 – 10 t/h

The trier separator is designed for cleaning grain and seed material, grain cereals, grain legumes, cereal crops and oil crops from long and short impurities (oats and cockle). The machine is in demand in seed producers and in the flour milling industry

T-080



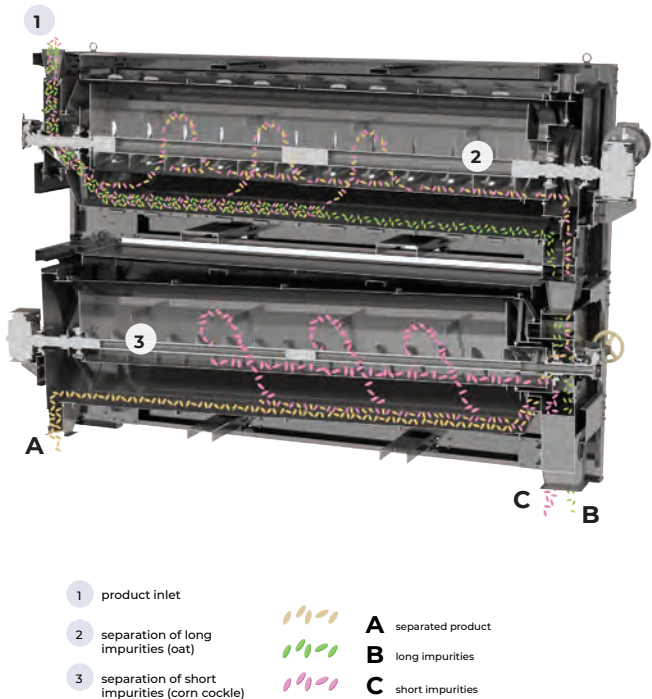
ADVANTAGES

- PRECISE GEOMETRY**
ensured by bolted joints that rule out welding deformations
- LONG SERVICE LIFE**
thanks to galvanized steel
- SILENT AND SMOOTH OPERATION**
without chain drives
- QUICK REPLACEMENT OF THE TRIER CYLINDERS**
easy access and dismantling
- NO GRAIN LOSSES**
thanks to the sealed separator design

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE	
	T-080	T-120
Min. rated capacity [t/h]	7	10
Dimensions (L/W/H) [mm]	3,470	4,230
	1,100	1,100
	2,600	2,600
Cylinder diameter [mm]	800	
Trier segment length [mm]	2,250	3,000
Max. machine weight with a set of work tools [kg]	1,700	2,000
Max. total installed power [kW]	6	
Max. cylinder speed		
for separating long impurities [rpm]	39	
for separating short impurities [rpm]	36	

PROCESS FLOW DIAGRAM



GS 120 VERSATILE GRAVITY SEPARATOR

GS 120

capacity up to
14 t/h (with wheat)

Gravity separator sorts seeds by specific gravity and is used when products have the same size, but different density.

Grain is fed evenly to the gravity separator by a vibrating feeder. Lightweight particles are separated from the heavier ones by air supplied to different areas of the separator surface under different pressure and by adjusting the slope of the separator surface in a fluidized bed.



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
Concave area, m ²	5
Dimensions (L/W/H) [mm]	5 500 2 930 1 405
Total power [kW]	25
Fan power [kW]	5.5
Fan number [pcs]	4
Machine weight [kg]	3,000

ADVANTAGES

- FULLY AUTOMATIC CONTROL**
easy handling of crops with minimal operator assistance
- SMART TUNING**
setting parameters for most optimal handling crops

CS 250 GRAIN DRESSER

CS 250

capacity up to
15 t/h (with wheat)

Continuously operating system for precise and uniform dressing when using liquid and suspended fungicides, bactericides, and insecticides. Any crop loose seed can be handled, including all grains, sugar beets, sunflowers, rapeseed, corn and leguminous crops

The product is fed from the storage hopper to the dresser and mixed with the liquid solution in the mixing chamber. Next, the liquid product is more evenly distributed in the screw mixer chamber, where seeds are completely covered.



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
Max. wheat capacity [t/h]	15
Dimensions (L/W/H) [mm]	2,015 2,350 2,015
Machine weight with a set of work tools [kg]	525
Motor power [kW]	4.87
Dresser tank capacity [L]	250

ADVANTAGES

- MAIN PIECES IN STAINLESS STEEL**
to withstand corrosive liquids
- COMPUTER CONTROL**
automatic dosing of dressing liquid and treated product
- SILICONE COATED BLADES**
prevents seed damage

KD SERIES

NEW!

KD 100

CONVEYOR GRAIN DRYER



capacity up to
10-57 t/h

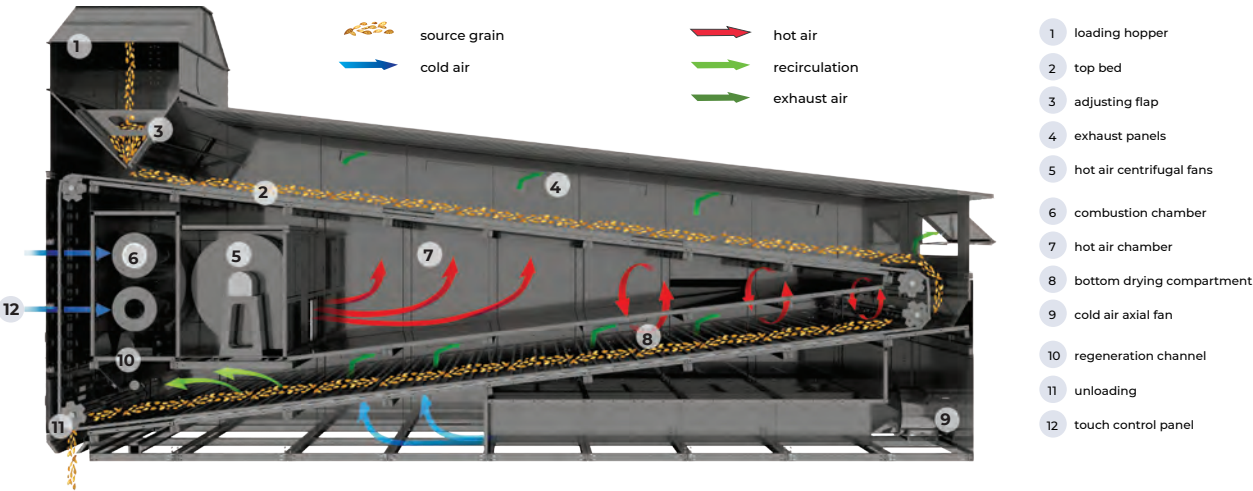
The conveyor dryer is not sensitive to the raw material – it dries heaps of any clogging and moisture content equally efficiently. It is suitable for small farms seeking inexpensive equipment to get it up and running in the shortest possible time. It can be transported on a trailer due to its modular, demountable design



ADVANTAGES

- **SAVING ON CONSTRUCTION PROJECT**
requires a level foundation only
- **RELIABILITY**
as simple as possible
- **FAST COMMISSIONING**
will be installed on site in 1-2 days
- **VERSATILITY**
can handle a variety of crops, regardless of their clogging and moisture
- **VERSATILE OPERATION**
lowest quantities can be dried

PROCESS FLOW DIAGRAM



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE							
	KD 100	KD 150	KD 200	KD 250	KD 300	KD 405	KD 450	KD 580
Drying capacity [t/h]								
Wheat (moisture decrease from 19 to 15%)	10	15	20	25	30	40.5	45	58
Corn (moisture decrease from 22 to 15%)	5.5	8.3	11.2	13.8	16.5	22.5	26.6	32.2
Sunflower (moisture decrease from 12 to 7%)	3.9	5.9	7.9	9.8	11.8	15.9	17.7	25.6
Overall dimensions in operating position (L/W/H) [mm]	8,900	8,900	11,560	11,560	13,350	15,000	16,200	18,700
	3,000	4,150	4,150	4,352	4,352	5,150	5,150	5,150
	5,850	5,850	5,850	5,850	5,850	6,450	6,860	7,289
Total installed power [kW]	30.5	36.6	46.6	46.6	86.9	107.2	115	139.5



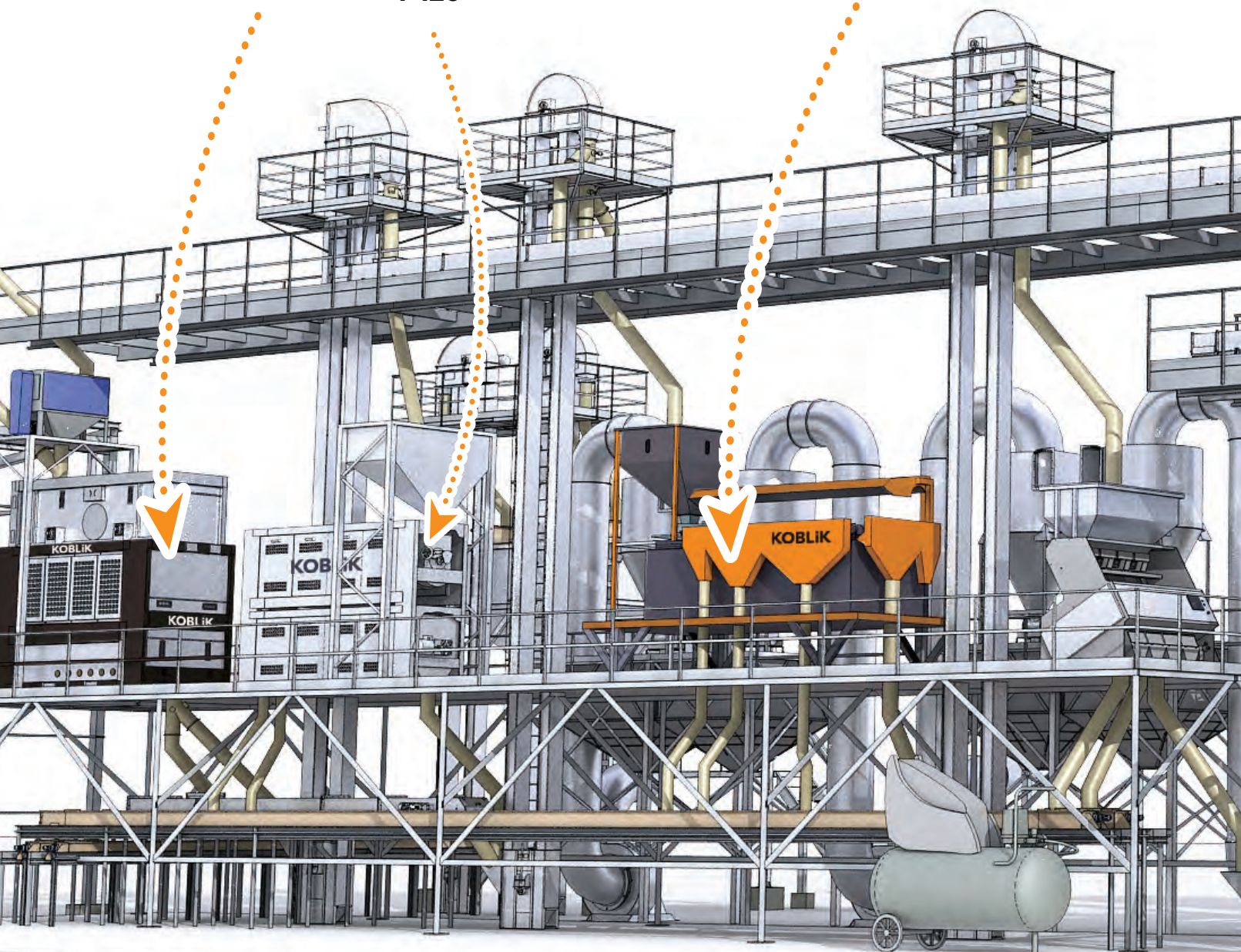
SEED PRODUCER

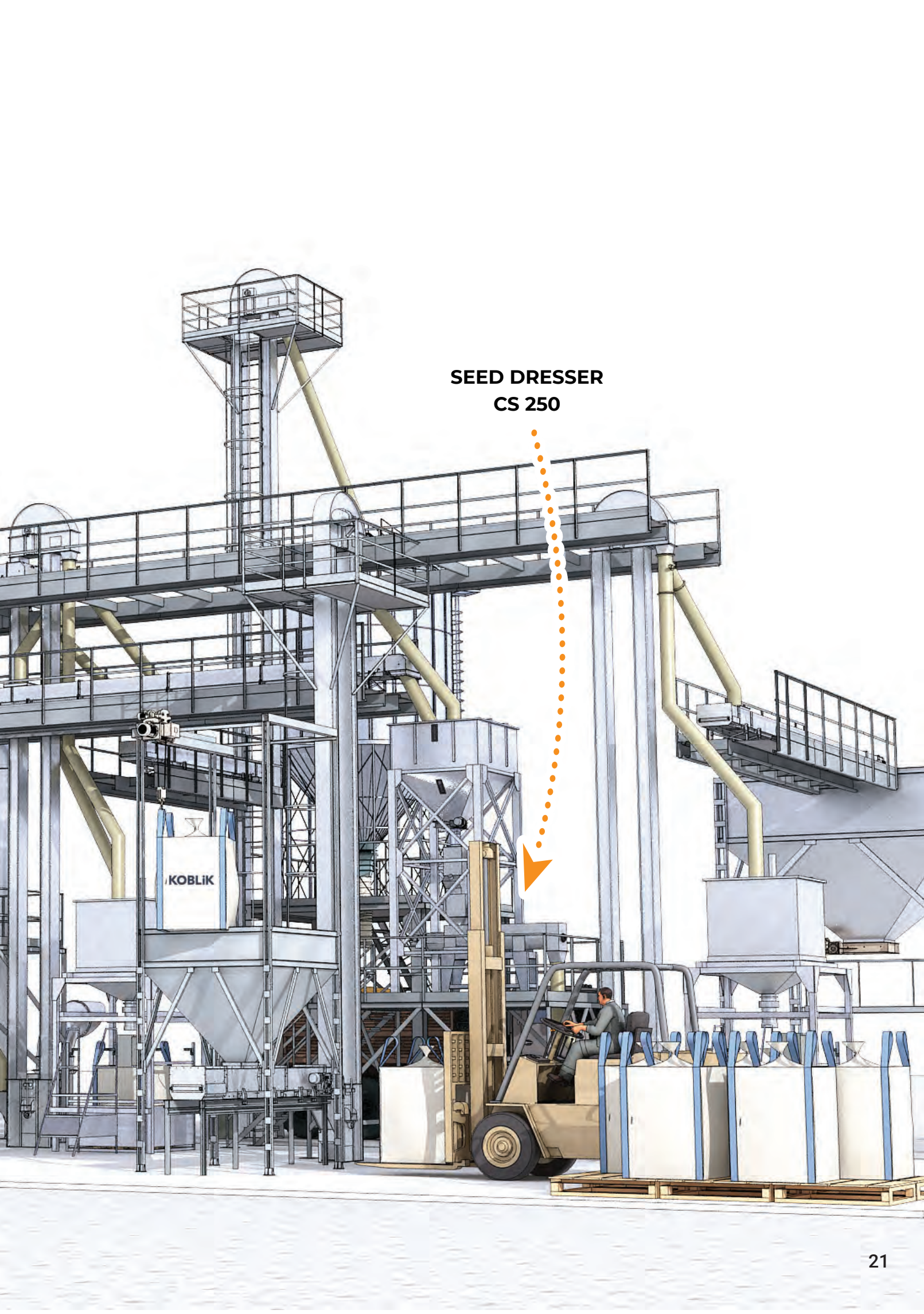
(SCHEME EXAMPLE)

GS 120 GRAVITY SEPARATOR

**VARIO
V-120**

**TRIER
T-120**





**SEED DRESSER
CS 250**

FD SERIES

MODULAR COLUMN GRAIN DRYER

FD 280



capacity
10 – 33 t/h

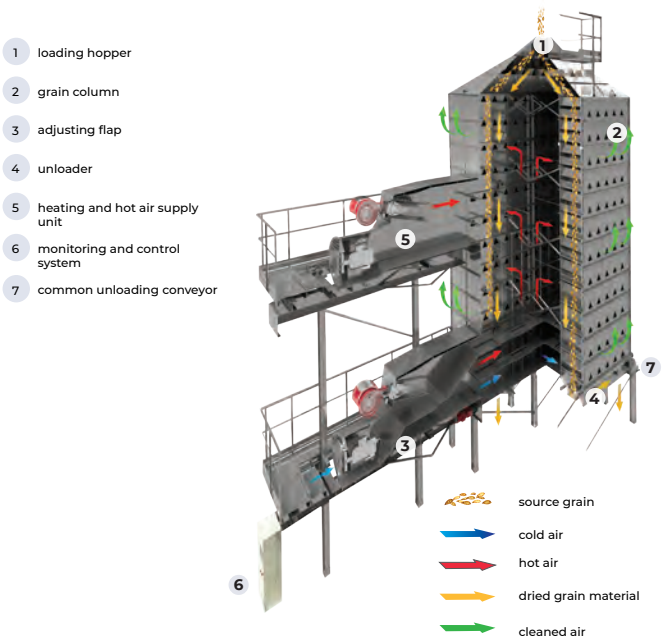
The modular grain dryer is a full-featured column dryer. It is featured by quick start-up and the lack of complex design solutions when building the drying complex. Thanks to the modular design and small size, the assembly and installation of the grain dryer at the site takes up to 10 times less time as compared to conventional dryers and requires significantly less investment



ADVANTAGES

- FAST COMMISSIONING**
will be installed on site in 1-2 days
- SIMPLE LOGISTICS**
modules can be transported with euro trailers
- EASY START**
no special foundation needed
- MINIMUM MAINTENANCE**
easy to clean
- FLEXIBILITY IN USE**
good for drying seeds

PROCESS FLOW DIAGRAM



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE						
	FD 120	FD 150	FD 190	FD 240	FD 270	FD 330	FD 390
Drying capacity [t/h]							
Wheat (moisture decrease from 19 to 15%)	12	15	19	24	27	33	39
Corn (moisture decrease from 22 to 15%)	5	7	8	11	12	15	18
Sunflower (moisture decrease from 12 to 7%)	5	6	8	10	12	14	17
Overall dimensions in operating position (L/W/H) [mm]	11,900	11,900	11,900	11,900	11,900	11,900	11,900
	3,095	3,095	3,095	3,095	3,095	3,095	3,095
	6,890	7,490	8,090	8,690	9,890	11,090	12,290
Total installed power [kW]	22.5	29.9	37.9	39.1	46.1	53.9	66.2

SD SERIES

COLUMN GRAIN DRYER WITH RECOVERY SYSTEM



capacity
43 – 173 t/h

The S-series column grain dryer is energy-efficient and eco-friendly, employs advanced technical solutions and is cost-effective for heavy handling volumes. It is suitable for all crops and has high drying efficiency at low energy consumption and low dust emissions

Heat recovery system (heated air reuse), 100% insulated design, linear burner – all this allows to save fuel and electricity. Moreover, during the cold season, the grain dryer remains efficient and maintains uniform drying with any moisture decrease

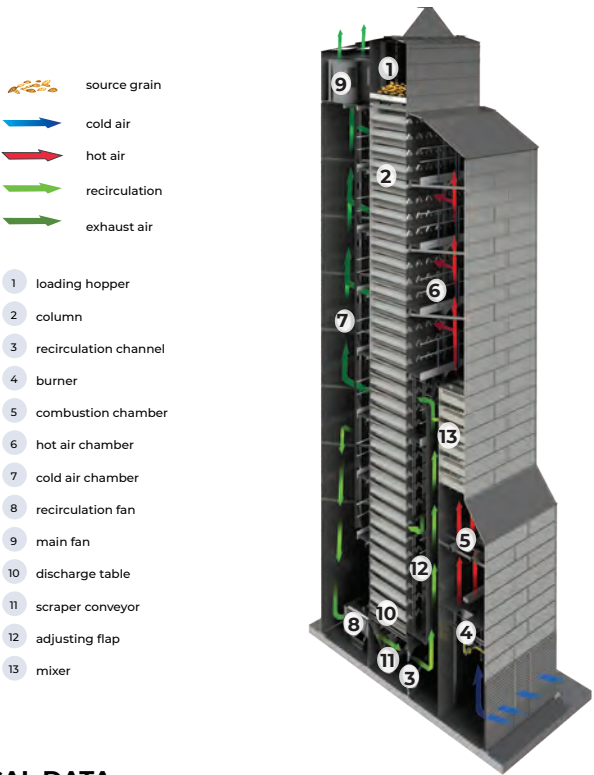
ADVANTAGES

- LOWER POWER CONSUMPTION**
up to 30% less than other dryers due to the heat recovery system (air reuse)
- EVEN DRYING**
biconical boxes distribute air evenly over the grain column
- HOUSING AREA 100% INSULATED**
reduced heat loss due to weather changes makes the dryer cost-effective and safe
- LOW NOISE AND DUST EMISSIONS**
thanks to the optimized fan layout



NEW!
SD 8-32

PROCESS FLOW DIAGRAM



KEY TECHNICAL DATA

PARAMETER DESCRIPTION		VALUE									
		SD 8-16	SD 8-20	SD 8-24	SD 8-28	SD 8-32	SD 16-16	SD 16-20	SD 16-24	SD 16-28	SD 16-32
Drying capacity [t/h]											
Wheat (moisture decrease from 19 to 15%)		43	54	65	75	86	86	108	129	150	173
Corn (moisture decrease from 22 to 15%)		18	22	27	31	35	35	44	53	62	71
Sunflower (moisture decrease from 12 to 7%)		17	21	25	30	34	34	43	51	60	68
Wheat capacity [m³]	tower	43.4	54	64.6	75.2	85.8	86.8	108	129.2	150.4	171.6
	total	59.4	70	80.6	91.2	101.8	118.8	140	161.2	182.4	203.6
Overall dimensions in operating position		7,600	7,600	7,600	8,700	8,700	7,600	7,600	7,600	8,700	8,700
without conveyor (L/W/H) [mm]		5,300	5,300	5,300	5,300	5,300	9,200	9,200	9,200	9,200	9,200
		14,400	16,500	18,600	20,800	22,900	13,400	15,500	17,600	19,800	21,900
Max. total installed power [kW]		30.1	30.1	45.4	61	62	60.2	60.2	90.8	122	124

SD-L SERIES

COLUMN GRAIN DRYER



capacity
43 – 173 t/h

The grain dryer is highly eco-friendly, with advanced technical solutions. Cost-effective with large volumes of drying. The ideal combination of drying capacity and quality with regard to energy consumption, space requirements, and equipment costs. Insulated design and the use of burners offers efficient drying in the cold season, and save fuel and electricity

Suitable for drying grain and seeds of cereals, corn, cereals, and legumes



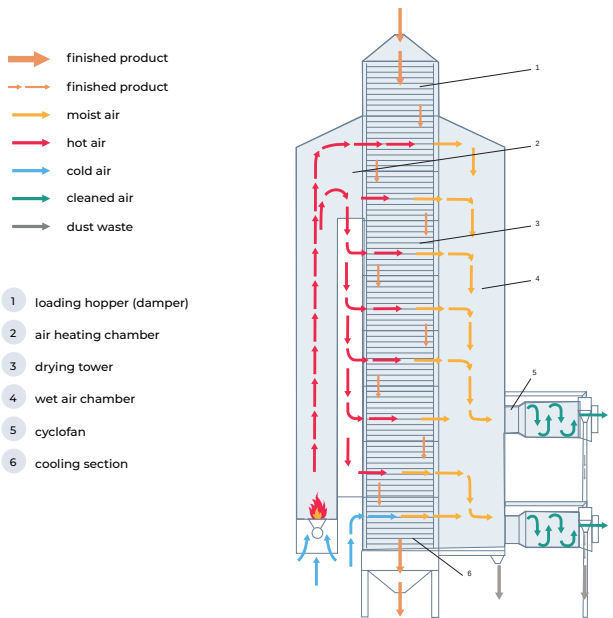
NEW!

SD 8-16L

ADVANTAGES

- INSTALLATION OF DIFFERENT TYPES OF BURNERS (OPTIONAL)**
 linear, flare, or block-type fan burner, or furnace unit with heat exchanger
- MECHANICALLY DRIVEN DISCHARGE DEVICE WITH FULL OPENING OF THE HOPPER**
 prevents product clogging
- LIMIT SWITCHES**
 prevent the dryer from operating in case of unauthorized opening
- AUTOMATION SYSTEM WITH TOUCH PANEL**
 main drying parameters control – agent, grain, and exhaust air temperatures, frequency control of the fans and the discharge mechanism, inline moisture meter

PROCESS FLOW DIAGRAM



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE									
	SD 8-16L	SD 8-20L	SD 8-24L	SD 8-28L	SD 8-32L	SD 16-16L	SD 16-20L	SD 16-24L	SD 16-28L	SD 16-32L
Wheat capacity (moisture decrease from 19 to 15%)	43	54	65	75	86	86	108	129	150	173
Air flow rate during heating [m³/h]	115,200	142,800	170,400	186,500	255,600	230,400	285,600	340,800	373,000	511,200
Wheat capacity [m³]	tower	43.4	54	64.6	75.2	85.8	86.8	108	129.2	150.4
	hopper			16				32		
Overall dimensions in operating position (L/W/H) [mm]	10,300	10,300	10,300	11,300	11,300	10,300	10,200	10,300	11,300	11,300
	5,800	5,800	5,800	5,800	5,800	9,700	9,700	9,700	9,700	9,700
	14,300	16,500	18,600	20,700	22,800	13,300	15,500	17,600	19,700	21,800
Max. total installed power [kW]	34.6	41.6	50.1	66.1	73.1	69.2	83.2	100.2	132.2	146.2
Maximum installed burner power [kW]	2,550	2,865	3,200	3,820	4,450	5,100	5,730	6,400	7,640	8,900
Fan power [kW]	4 x 7.5	2 x 7.5 / 2 x 11	4 x 11	2 x 7.5 / x 11	6 x 11	8 x 7.5	4 x 7.5 / x 11	8 x 11	4 x 7.5 / x 11	12 x 11

MD SERIES

MD 8-24

LOUVERED GRAIN DRYER



capacity
28 – 174 t/h

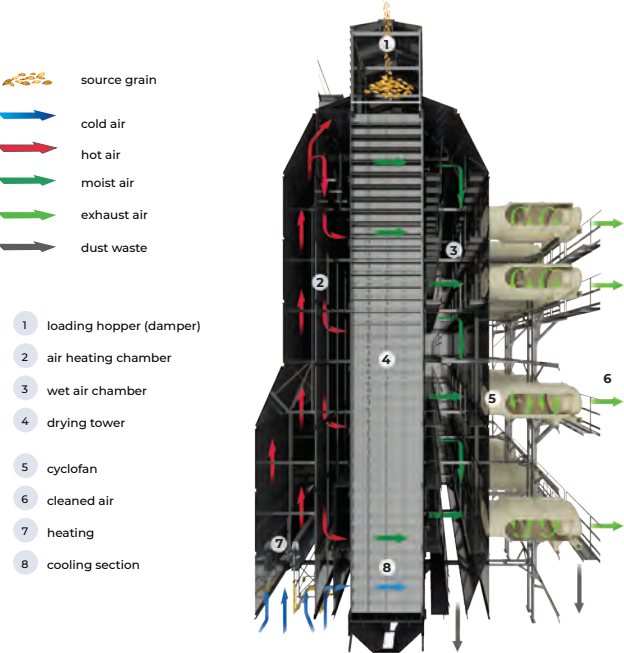
Louvered dryers are simple, cost-effective, and well suited for drying a wide range of crops, especially oilseeds. Made of quality galvanized steel sheet. The dryer column consists of block modules with ducts for efficient air supply and exhaust



PROCESS FLOW DIAGRAM

ADVANTAGES

- NORTH DESIGN**
it works perfectly at sub-zero temperatures
- LARGE DIMENSIONS**
for drying of large batches
- VERSATILITY**
suitable for all popular crops



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE															
	MD 4-8	MD 5-8	MD 6-8	MD 7-8	MD 8-8	MD 5-12	MD 6-12	MD 7-12	MD 8-12	MD 5-16	MD 6-16	MD 7-16	MD 8-16	MD 6-24	MD 7-24	MD 8-24
Drying capacity [t/h]																
Wheat (moisture decrease from 19 to 15%)	28	36	43	51	58	54	64	75	86	72	86	101	116	131	152	174
Corn (moisture decrease from 22 to 15%)	11	15	17	21	23	22	26	31	35	30	35	41	47	53	62	71
Sunflower (moisture decrease from 12 to 7%)	11	14	17	20	22	21	25	29	34	28	34	40	45	51	60	68
Capacity - tower	28.5	35.6	42.7	50	57	53.4	64	74.8	85.4	71.2	85.4	99.7	113.9	128.2	149.5	170.9
for wheat [m³]	39.8	46.9	54.1	61.2	68.3	70.4	81.1	91.8	102.4	93.9	108.1	122.3	136.6	162.1	183.4	204.8
Overall dimensions in operating position (L/W/H) [mm]	10,420 2,070 13,430	10,420 2,070 15,500	10,420 2,070 17,580	10,420 2,070 19,640	10,420 2,070 21,710	10,420 3,990 15,990	10,420 3,990 18,060	11,340 3,990 20,130	11,340 3,990 22,200	10,420 3,990 15,990	10,420 3,990 18,060	10,420 3,990 20,130	10,420 3,990 22,200	10,420 7,818 17,060	11,340 7,818 19,130	11,340 7,818 21,200
Max. total installed power [kW]	26.3	34.7	38.2	42.2	52	414.1	52.9	67.9	74.9	67.9	74.9	82.9	102.5	120	132	163.5

SILOS

Silos offer reliable long-term storage of conditioned grain and temporary (with ventilation and cooling) storage of wet grain with the lowest losses and costs. Silos is available as flat bottom (SP) with a capacity of 417 – 24,462 m³ and cone (SK) with a capacity of 87 – 2,024 m³

SP

FLAT BOTTOM SILOS



Capacity
417 – 25,450 m³

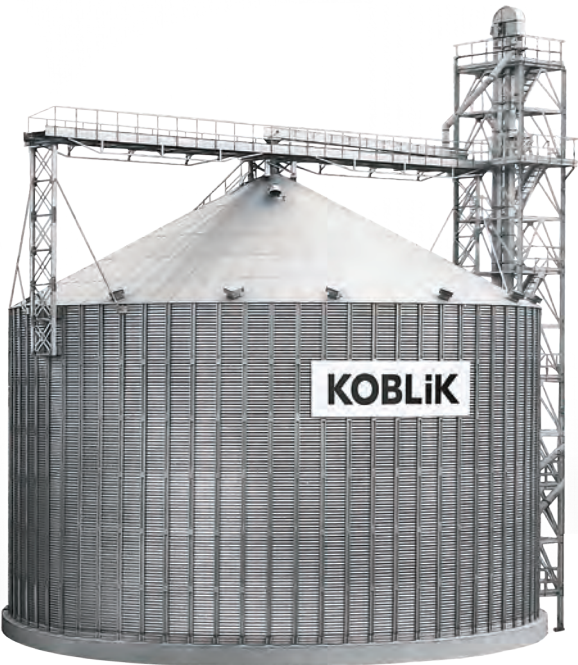
Flat bottom silos can store up to 20,360 tons of grain. Most of the grain is discharged by gravity through special holes in the flat silo bottom. Silos offer reliable long-term storage of conditioned grain and temporary (with ventilation and cooling) storage of wet grain with the lowest losses and costs.

ADVANTAGES

- HIGH-QUALITY STEEL**
made according to European standards, with a zinc coating class of not less than 350 g/m²
- SILOS ARE MADE WITH HIGH-PRECISION ROBOTIC EQUIPMENT**
parts are perfectly assembled thanks to the robotic sheet bender for making stiffening ribs, the robotic panel forming line, and the laser metal cutting complex. The laser also labels each part, making it easy to assemble the silo
- SILO PARTS ARE DELIVERED IN FACTORY PACKING**
in strict sequence and complete for proper installation
- THE RACKING SUPPORTS ARE DESIGNED JUST FOR SILO HOUSINGS AND SILO ROOFS**
thus no additional supports are required
- SUITABLE FOR ALL REGIONS**
silo design withstands all sorts of wind, snow and seismic loads

ADVANTAGES

- CARE AND SAFETY**
layer-by-layer temperature monitoring of stored grain
- ALL-WEATHER**
grain mass cooling and low-temperature post-drying of grain
- DISEASE PROTECTION**
grain decontamination and silo structure disinfection
- INSTANT MONITORING**
grain sampling available
- PROTECTION**
monitoring of the upper limit level of the grain filling up



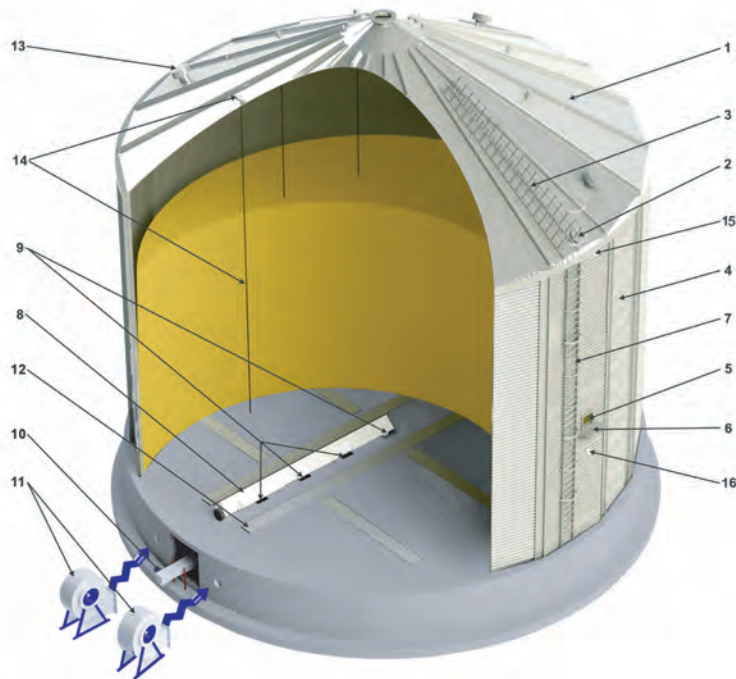
SPECIFICATIONS

PARAMETER DESCRIPTION	VALUE
Number of tiers [pcs]	4 – 26
Diameter [mm]	9,200 – 32,086
Overall height [mm]	7,419 – 37,259
Silo volume [m ³]	417 – 25,450
Capacity (at a density of 0.8 g/l) [t]	332 – 20,360
Max. calculated compaction of grain mass [%]	6
Snow load [kg/m ²]	up to 320
Wind load [kg/m ²]	up to 73



All models and specifications
of flat bottom silos (SP)

CONFIGURATION



- 1 Silo roof
- 2 Roof inspection manhole
- 3 Ladder from the roof manhole to the roof top
- 4 Silo walls
- 5 Maintenance manhole on the silo wall
- 6 Service platform for access to the maintenance manhole on the silo wall
- 7 Outdoor silo ladder from floor to maintenance manhole

UNLOADING SYSTEM

- 8 Unloading auger
- 9 Central and additional emptying devices
- 10 Unloading transport equipment

VENTILATION SYSTEM

- 11 Fans
- 12 Ventilation ducts
- 13 Roof ducts

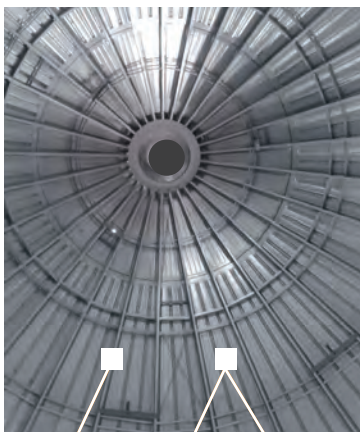
TEMPERATURE AND LEVEL MONITORING SYSTEM

- 1 Multipoint temperature transmitters c/w sensors and roof supports
- 2 High level sensor c/w bracket
- 3 Low level sensor c/w bracket

OPTIONS

- LOADING CONVEYOR GALLERIES 1,400 MM, 2,100 MM, 2,480 MM OF OPEN AND CLOSED VERSIONS
- GALLERIES SUPPORTED BY SILO WALLS
- GALLERY SUPPORTS TO THE GROUND (COLUMN) 1,600 * 1,600 MM
- SUPPORTS ON THE SILO CROWN
- LADDER ON THE SILO WALL FROM THE COMPULSORY MAINTENANCE MANHOLE PLATFORM TO THE ROOF
- ADDITIONAL MAINTENANCE MANHOLE WITH SERVICE PLATFORM
- DELICATE SILO FEEDING SYSTEM
- SIDE GRAVITY DISCHARGE SYSTEM

ROOF



WALLS, VERTICAL REINFORCERS



SILOS WITH A DIAMETER OF MORE THAN 11.45 M ARE EQUIPPED WITH A TRUSS SYSTEM made of galvanized high-strength sigma beams up to 4 mm thick

ROOFING SHEETS ARE MADE WITH REINFORCING RIBS (ELEMENTS) ALONG THE ENTIRE LENGTH, and reliable sealed joints

WALLS AND VERTICAL REINFORCERS ARE MADE OF HIGH-STRENGTH STEEL, using advanced technology and fully automated machines, by force steel drawing and rolling. It spares the product from creases and ensures the accuracy of process holes (tolerance of not more than 0.003 mm).

GALLERIES AND SUPPORTS

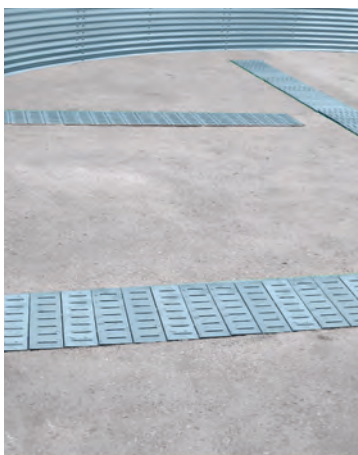


Silos are loaded with **TRANSPORT SYSTEMS LOCATED ON GALLERIES WITH SUPPORT STRUCTURES**

DEPENDING ON THE LOADING TECHNOLOGY CHOSEN, DIFFERENT GALLERY VERSIONS ARE AVAILABLE – 1,400 mm, 2,100 mm, or 2,400 mm wide, to accommodate one, two, and sometimes three conveyors

OPEN BELT CONVEYORS CAN BE FITTED WITH WIND AND WEATHER PROTECTION made of profiled sheet metal or polycarbonate sheet.

ACTIVE VENTILATION SYSTEM



100% VENTED



SILOS ARE SUPPLIED WITH AN ACTIVE VENTILATION SYSTEM, WHICH INCLUDES AS A STANDARD:

- baffle-type roof ducts
- perforated panels in an amount ensuring proper aeration of the product

ALL FLAT BOTTOM SILOS ARE OPTIONALLY EQUIPPED WITH VENTILATION SYSTEM COVERING 100% OF THE FLOOR AREA. The perforated panels allow airflow without the holes being blocked by the stored product

ROOF ACCESSORIES



TEMPERATURE MONITORING



As standard, the ventilation system is equipped with TsAGI baffles relying on the reduced pressure created by the wind. As an option, turbo-deflectors can be installed on the silo roof to increase the ventilation efficiency by up to 4 times. Active deflector head rotates by wind, creating a vacuum in the ventilation duct, thus increasing the draft

TEMPERATURE MEASUREMENT SYSTEM INCLUDES

- fixing elements
- 3 to 19 multipoint temperature transmitters at the roof
- multipoint temperature transmitters c/w sensors
- transmitter answering equipment

Sensor data can be monitored using a handheld reader or after the information enters the computer in the operator's terminal



SK

CONE SILOS



Capacity
4.5 – 2,024 m³

To store the product in small farms or as immediate storage tanks in the elevator. All bolt connections of the silo are completed with special cone washers and sealing polymer gaskets preventing the moisture ingress through the threaded joints

Cone silos are used for storing easily consolidated products and niche crops: soybean meal, mustard, brewing barley, and others

ADVANTAGES

- HIGH-QUALITY STEEL**
made according to European standards, with a zinc coating class of not less than 350 g/m²
- SILOS ARE MADE WITH HIGH-PRECISION ROBOTIC EQUIPMENT**
parts are perfectly assembled thanks to the robotic sheet bender for making stiffening ribs, the robotic panel forming line, and the laser metal cutting complex. The laser also labels each part, making it easy to assemble the silo
- SILO PARTS ARE DELIVERED IN FACTORY PACKING**
in strict sequence and complete for proper installation
- THE RACK IS SUPPORTED DIRECTLY ON THE SILO BODY AND ROOF,**
thus no additional supports are required
- SUITABLE FOR ALL REGIONS**
silo design withstands all sorts of wind, snow and seismic loads

AS STANDARD, CONE SILOS ARE EQUIPPED WITH:

- ladder to the roof top, with safe guardrails
- ladder on the silo body
- maintenance manholes
- resting platform
- temperature measurement system
- active ventilation system
- silo-top rack (option)



DESIGN CHARACTERISTICS

PARAMETER DESCRIPTION	VALUE
Number of tiers [pcs]	1 – 17
Diameter [mm]	3,820 – 11,000
Overall height [mm]	4,826 – 32,632
Silo volume [m ³]	4.5 – 2,024
Capacity (at a density of 0.8 g/l) [t]	17 – 1,609
Snow load [kg/m ²]	up to 320
Wind load [kg/m ²]	up to 73



All models and specifications of cone bottom silos (SK)

LARGE



Large cone silos are equipped with a heavy-duty, galvanized steel support structure that can withstand up to 2,000 tons of product

THESE MODELS CAN ALSO BE USED FOR HARD-RUNNING PRODUCTS AND EQUIPPED WITH SPECIAL FORCED DISCHARGING SYSTEMS (multi-augers, vibrating bottoms, pneumatic shaking systems). Silos can also be equipped with ventilation and temperature monitoring systems

SMALL



SMALL SILOS ARE AVAILABLE WITH A VOLUME OF 20 M3 TO 250 M3, WITH THE BOTTOMS LOCATED AT ANGLES OF 45 °, 60 ° AND 66 °. Such tanks are used both for immediate and long-term storage of the product

Can be used in cereal processing plants, mills, butter factories, compound feed plants

CAN BE EQUIPPED WITH VENTILATION AND TEMPERATURE MONITORING SYSTEMS

TRUCK LOADING



TRUCK LOADING SILOS ARE DESIGNED FOR ACCUMULATION OF THE PRODUCT (grain, products of vegetable processing, vegetable waste, aspiration waste, etc.) with subsequent loading of road and rail transport by gravity. Tanks can range from 4.5 to 1,000 tons, with different conical bottom angles (45°, 60° and 66°). Truck loading silos are installed on robust steel structures for safe passage of vehicles under them

CONE BOTTOM

45°



STEEL STRUCTURES ARE MADE WITH REGARD TO FIRE SAFETY (completed with ladders, service platforms, etc.) **AS AN OPTION, THE TRUCK LOADING SILOS CAN BE EQUIPPED WITH ADDITIONAL AND AUXILIARY DEVICES** for filling railcars and vehicles (telescopic loaders, multi-augers, shaking systems)

The cone bottom has a 45° design for loose products and 60°, 66° for wet or hard-running products.

66°



GRAIN ELEVATORS AND CONVEYORS

For vertical and horizontal (up to 45° angle) transport of bulk products

Transport equipment is made of galvanized steel up to 5 mm thick, Conveyor elements are quickly and reliably assembled with bolted connections, while maintaining the leak tightness of the structure. Reliable heavy-duty hardware is used to fasten the sections and scrapers (buckets). All equipment is completed with sensors as required by industrial safety



ADVANTAGES

- **LONG SERVICE LIFE**
wear-resistant lining materials and galvanized parts are used
- **COMPLETE CONTROL OVER OPERATION**
with sensors for speed, belt running out, overpressure, and chain breakage
- **UNINTERRUPTED OPERATION**
reliable gear motors and bearings
- **CAREFUL TRANSPORTATION**
low grain damage risk



GRAIN ELEVATORS

BUCKET ELEVATORS



capacity
5 – 600 t/h

We have developed a wide range of bucket elevators for use both in the agricultural sector and in other areas (food industry, mining and concentrating plants, etc.) All models are made of high-quality materials and units, with gear motors from reliable manufacturers

zinc coating class
275 g/m²



ADVANTAGES

- LOW GRAIN DAMAGE**
due to belt speed not exceeding 3.3 m/s
- LONG SERVICE LIFE**
fully galvanized structure
- CONTINUOUS OPERATION**
reliable gear motor and durable belt of reinforced fabrics
- COMPLETE CONTROL OVER OPERATION**
with safety sensors

BASIC TECHNICAL DATA OF HEAVY-DUTY GRAIN ELEVATORS

PARAMETER DESCRIPTION	VALUE					
	EV 005 EV 010 EV 015	EV 020 EV 025 EV 040	EV 050 EV 055 EV 060 EV 080	EV 100	EV 175	EV 350
Capacity [t/h]	5 – 15	20 – 40	50 – 80	100	175 – 200	350
Drive power [kW]	1.1 – 3	3 – 7.5	2.2 – 18.5	4 – 22	7.5 – 45	15 – 75
Belt speed [m/s]	1.85	2.9	2.4 – 3.2	2.6	2.6 – 3.2	2.5
Belt width [mm]	125	150	200	300	300 – 450	700
Max. elevator height [m]	40			50		

BASIC TECHNICAL DATA OF STANDARD GRAIN ELEVATORS

PARAMETER DESCRIPTION	VALUE							
	EV-E 15	EV-E 40	EV-E 80	EV-E 150	EV-E 200	EV-E 300	EV-E 400	EV-E 600
Capacity [t/h]	5 – 15	20 – 40	50 – 80	80 – 1	175 – 00	200 – 3	300 –	450 – 6
Drive power [kW]	1.1 – 3	3 – 7.5	3 – 15	7.5 – 37	15 – 37	11 – 75	18.5 – 90	30 – 132
Belt speed [m/s]	1.85	2.9	3.2	3.2	3.2	3	3	3.2
Belt width [mm]	125	150	200	300	300	400	500	750
Max. elevator height [m]	40		50	50				

CONFIGURATION

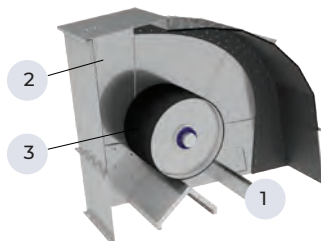
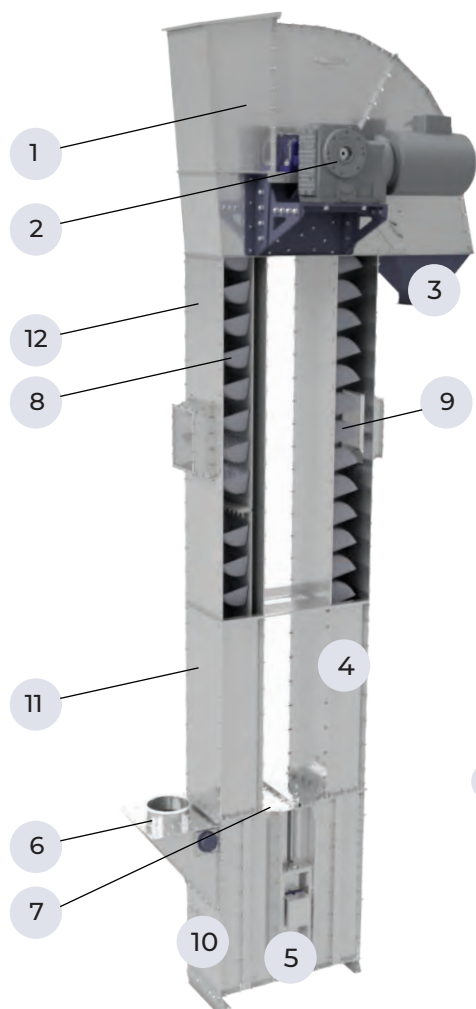


Fig. 1

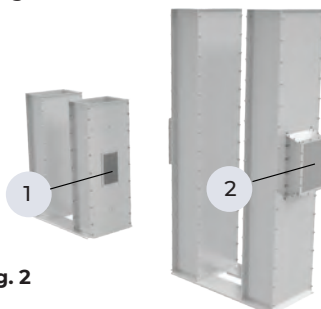


Fig. 2

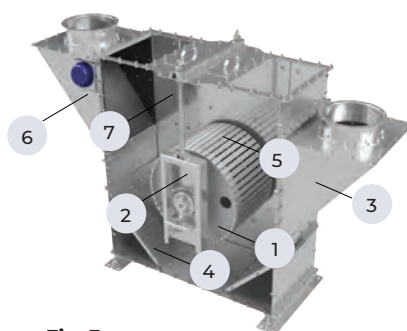


Fig. 3

- 1 Top head of bucket elevator (Fig. 1)
- 2 Gear motor
- 3 Unloading
- 4 Grain elevator well (Fig. 2)
- 5 Lower shoe of bucket elevator (Fig. 3)
- 6 Filling tray
- 7 Tensioning stud
- 8 Elevator buckets
- 9 Elevator belt
- 10 Clean out manhole
- 11 Maintenance manhole
- 12 Explosion vent

TOP HEAD OF BUCKET ELEVATOR

Made of galvanized steel. The top cover of the head is lined with a 10 mm thick polymer plate to increase the service life of the machine and reduce product damage. The adjustable plate 1 between the bucket and the emptying device prevents the product from spilling back into the well. Explosion vent 2 is mounted on top of the head. As an option, in case of high capacity bucket elevators (above 350 tons per hour) the drum is cured with rubber tread 3

BUCKET ELEVATOR WELL

Made of galvanized steel. Supplied loose, which saves space in the vehicle when delivering the equipment to the installation site

The elements are assembled quickly and with no special tools. When assembling, explosion vents 2 and special manholes with inspection windows 1 are installed on the columns.

LOWER SHOE OF BUCKET ELEVATOR

Made of galvanized steel. Complete with a hollow drum 1 with a belt tensioning mechanism 2, backfill tray 3 lined with 10 mm polymer plate. Gate valves 4 for easy cleaning of the unit are installed in the lower sides of the shoe.

Optionally equipped with a drum with rubber tread 5 (for high-capacity elevators), additional filling tray 6 and sight windows 7

CONVEYORS

NEW!

REEL AND BELT TYPE

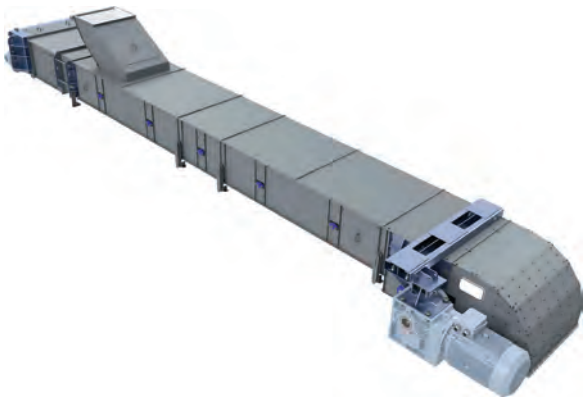


capacity up to
1,200 t/h

Closed type reel and belt conveyors are used for transporting loose materials in horizontal, inclined and horizontal-inclined positions. It features a special design of supporting rollers of the loaded run. These rollers are made as reels, in which the bearings are moved out of the dust zone to the housing walls. The return run moves on the bottom lined with ultra-high molecular weight polyethylene of low friction coefficient and high wear resistance

zinc coating class
275 g/m²

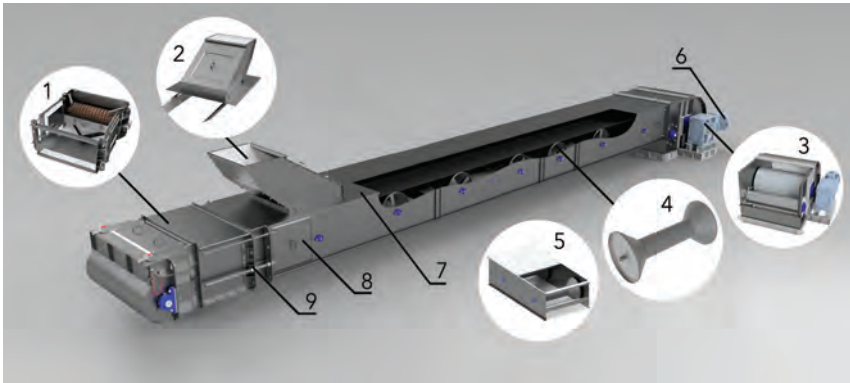
maximum conveyor
slope
10°



ADVANTAGES

- REGULAR MAINTENANCE AVAILABILITY**
number of bearings is reduced threefold
- LOW COMMISSIONING COSTS**
operated outdoors and requires no enclosed galleries
- SAFETY**
no dust release outside the housing when operating in enclosed or underground galleries
- FAULT TOLERANCE**
all bearing units are out of the dust zone
- SOUTH DESIGN**
possible to transport products with temperatures up to 100°C
- LONG SERVICE LIFE**
loading devices and discharge boxes are lined with polymers or wear-resistant steel
- EASY TO OPERATE**
due to optimized design
- EFFICIENCY**
box and tensioning post with self-cleaning drum returns dust and spilled product back to the working branch

CONFIGURATION



- 1 Tensioning section (Fig. 1)
- 2 Filling section (Fig. 2)
- 3 Drive section (Fig. 3)
- 4 Reel (Fig. 4)
- 5 Extension section (Fig. 5)
- 6 Gear motor
- 7 Section cover
- 8 Inspection section with manhole
- 9 Tensioning device

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE									
	SCRAPER CONVEYORS						REEL TYPE			
	BR 200	BR 400	BR 600	BR 800	BR 1 000	BR 1 200	BK 200	BK 400	BK 600	BK 800
Capacity [t/h]	200	400	600	800	1,000	1,200	200	400	600	800
Drive power [kW]	up to 160									
Belt speed [m/s]	up to 3									
Box width [mm]	850	1,050	1,250	1,450	1,450	1,650	740	940	1,140	1,240
Max. conveyor length [m]	130									

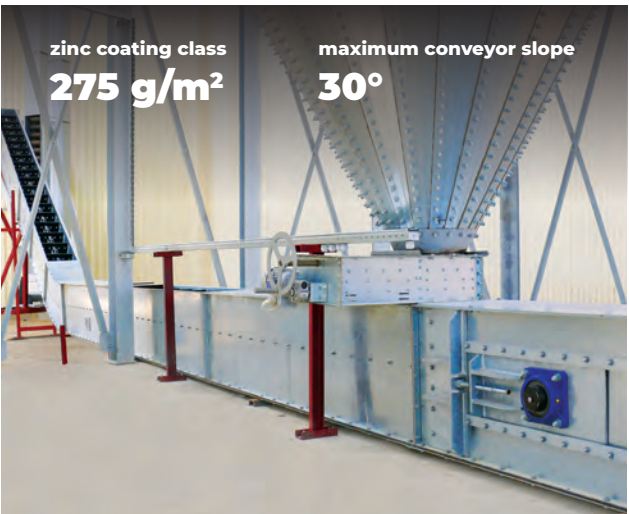
CONVEYORS

SCRAPER (INCLUDING LOW INCLINED ONES)



capacity up to
800 t/h

Designed for horizontal and inclined movement of loose materials. The main advantage of the entire model range is the reduced product damage due to the polymer scrapers. They are of industrial design for reliable operation and long service life. Swing angles 15°, 30° and 45°

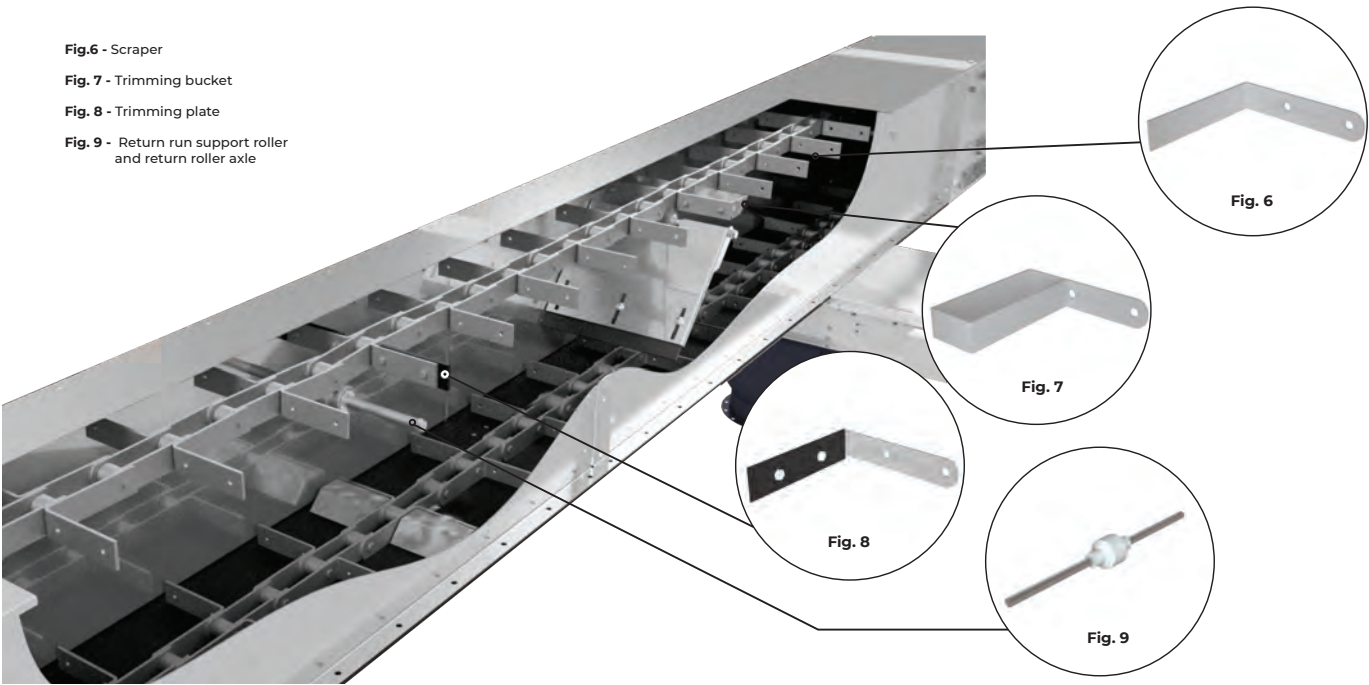


ADVANTAGES

- LOW GRAIN DAMAGE AND LOW WEAR OF TRACTION ELEMENTS**
due to chain speed not exceeding 0.85 m/s
- LONG SERVICE LIFE**
thanks to fully galvanized design
- CONTINUOUS OPERATION**
reliable gear motor
- COMPLETE CONTROL OVER OPERATION**
with safety sensors, overfill sensor, and speed control sensor



CHAIN ELEMENTS



CONFIGURATION

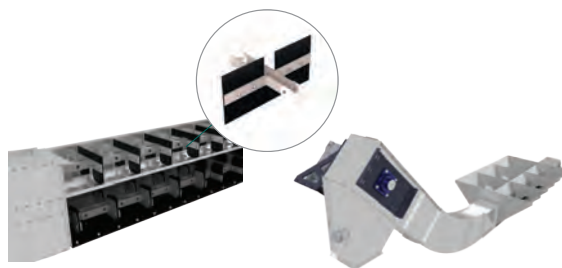
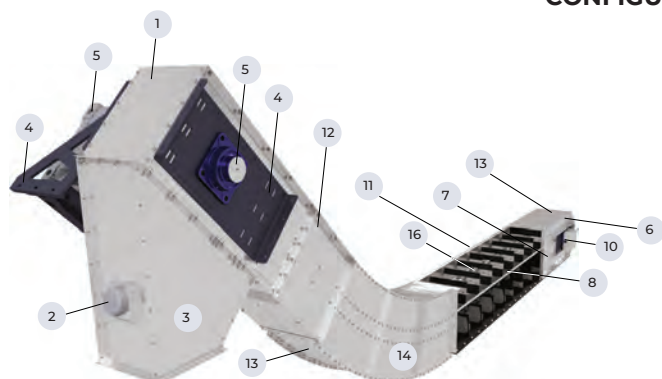


Fig. 1

Fig. 2

- | | | |
|--|---------------------------------------|--|
| 1 Drive section | 7 Guiding profile | 13 Connecting plate |
| 2 Protection, conveyor overfill switch | 8 Tensioning bracket | 14 Angular section of the conveyor (angle 15°, 30°, 45°) |
| 3 Unloading hopper of the end section | 9 Fixed bracket | 15 Gate for additional emptying device (as an option) |
| 4 Motor mounting bracket | 10 Tensioning stud | 16 Chain with scrapers (Fig. 1) |
| 5 Gear motor | 11 Horizontal section of the conveyor | |
| 6 Tensioning section | 12 Inclined section of the conveyor | |

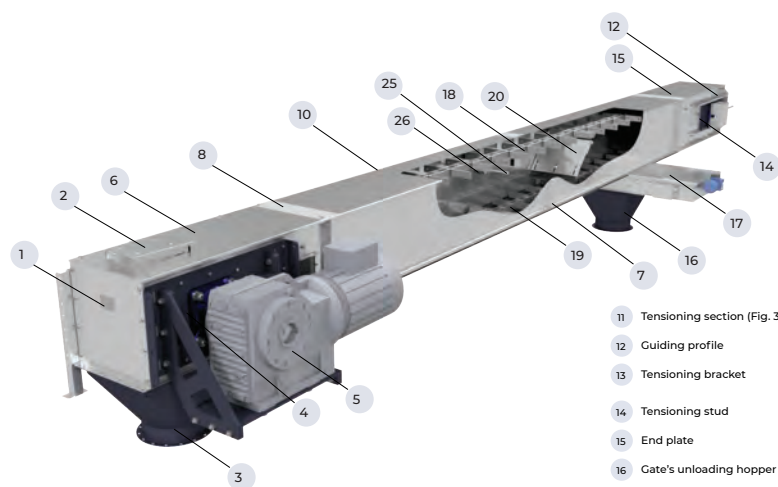
POLYMER SCRAPERS

- 1 For increased reliability and service life of scraper conveyors
- 2 Scraper design significantly reduces grain damage

LOADING CHAIN CONVEYORS

- 1 Used as a receiving hopper for truck unloading.
- 2 Smaller sections are available for upgrading existing process trains.
- 3 Made of S220GD galvanized steel sheet, mounted with bolted connections
- 4 Available with both straight and swivelling unloading section

CONFIGURATION



- | | |
|--|---|
| 1 Drive section (Fig.1) | 25 Return chain support roller (Fig. 9) |
| 2 Protection, conveyor overfill switch | 26 Return roller axle (Fig. 9) |
| 3 Unloading hopper of the end section | |
| 4 Motor mounting bracket | |
| 5 Gear motor | |
| 6 Cover plate | |
| 7 Side plates | |
| 8 Connecting plate | |
| 9 Side connection | |
| 10 Extension section (Fig. 2) | |
| 11 Tensioning section (Fig. 3) | |
| 12 Guiding profile | |
| 13 Tensioning bracket | |
| 14 Tensioning stud | |
| 15 End plate | |
| 16 Gate's unloading hopper (as an option) (Fig. 4) | |
| 17 Gate for additional emptying device (as an option) (Fig. 4) | |
| 18 Chain | |
| 19 Bottom with polymer plate | |
| 20 Trimming brush | |
| 21 Scraper (Fig. 6) | |
| 22 Trimming bucket (Fig. 7) | |
| 23 Trimming plate (Fig. 8) | |



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

DRIVE SECTION

- 1 the conveyor drive section is equipped with gear motors for reliable and long-lasting operation of the equipment
- 2 included: overfill sensor, discharge funnel
- 3 all moving parts of the equipment are installed in housing bearing units by top manufacturers

EXTENSION SECTION

- 1 extension sections are quickly and efficiently assembled with bolted connections
- 2 the bottom is lined with 10 mm thick polymer plates to increase service life and reduce noise
- 3 support rollers of the return run of the K40, K60 and K100 conveyor chains are made of PE1000. These models include a steel

construction with bearings (as an option). Starting with the model K150, support rollers are made of steel with bearings, while the K200 and K300 conveyors use housing bearings mounted on the column sides.

TENSIONING SECTION

- 1 simple, reliable and safe design. Tensioning by screwed pairs

- 2 induction speed sensor
- 3 tensioning disk is of profiled structural steel

REDLER GATE

- 1 the Redler gate is delivered with an electric drive (manual drive is optional)
- 2 protective screen is installed over the outlet opening to prevent damage to the chain

CONVEYOR WITH LOADING SECTION

- 1 easy and quick assembly
- 2 can be used both on their own and to upgrade existing process trains
- 3 the bottom lined with 10 mm plastic

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE								
	KS 050	KS 100	KS 150	KS 200	KS 250	KS 300	KS 400	KS 600	KS 800
Capacity [t/h]	50	100	150	200	250	300	400	600	800
Drive power [kW]	1.1 – 7.5	30 – 15	4 – 22	4 – 37	4 – 37	5.5 – 45	11 – 55	15 – 75	22 – 110
Belt speed [m/s]	0.58	0.65	0.6	0.64	0.7	0.74	0.71	0.8	0.9
Box width [mm]	230	330	390	430	430	520	520	680	768
Max. conveyor length [m]	60								

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	KS-I 50	KS-I 100	KS-I 150	KS-I 200	KS-I 250	KS-I 300	KS-I 400	KS-I 600	KS-I 800
Capacity [t/h]	50	100	150	200	250	300	400	600	800
Drive power [kW]	1.1 – 11	2.2 – 18.5	4 – 22	11 – 37	15 – 45	15 – 75	18.5 – 75	22 – 110	45 – 110
Belt speed [m/s]	0.7	0.9	0.86	0.9	0.71	0.84	0.8	0.8	0.72
Box width [mm]	230	330	390	430	520	520	600	900	1,200
Max. conveyor length [m]	30								

CONVEYORS

NEW!

ROLLER AND BELT TYPE



capacity up to
400 t/h

Belt conveyors are used for horizontal transportation of loose materials in industry and agriculture. The main products to be transported are grain (both bread and seed), oilseeds, and legumes. These conveyors are also suitable for transporting pellet and powder products

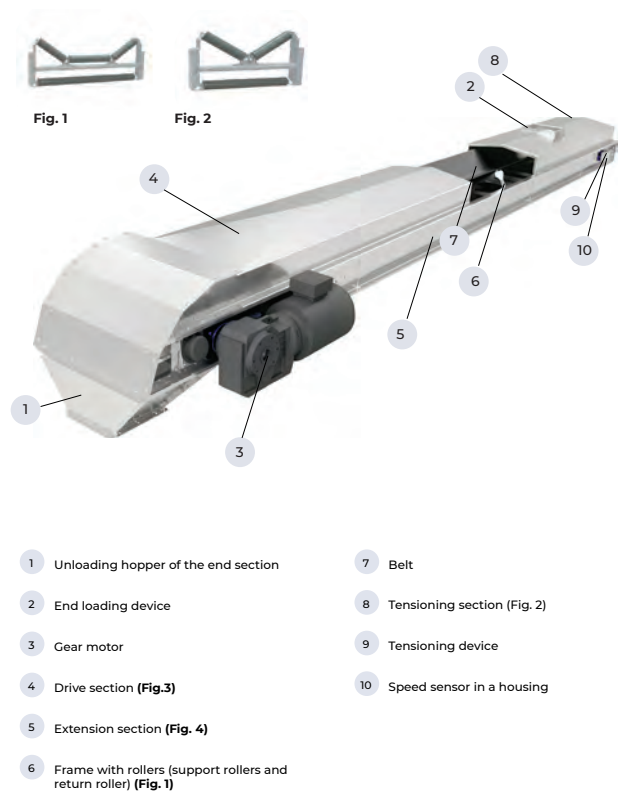
THE EQUIPMENT IS FITTED WITH AN OVERFILL SENSOR AND A SPEED CONTROL SENSOR



KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE											
	BRO 045	BRO 055	BRO 080	BRO 100	BRO 125	BRO 160	BRO 180	BRO 230	BRO 250	BRO 330	BRO 400	
Capacity [t/h]	45	55	80	100	125	160	180	230	250	350	400	
Drive power [kW]	2.2 – 1	2.2 – 1	3 – 15	3 – 1	4 – 1	4 – 1	5.5 – .5	5.5 – .5	5.5 – .5	5.5 – .5	7.5 –	
Chain speed [m/s]	2	3	2	3	2	3	2	3	2	3	2	
Box width [mm]	530		630		730		830		960		1,200	
Max. conveyor length [m]	100											

CONFIGURATION



DRIVE SECTION (FIG. 3)

- 1 EP250 rubber-fabric belts are used as a traction element. The belt type is chosen depending on the product characteristics
- 2 Return run trimming mechanism (as an option)
- 3 Emptying device is equipped with an overfill sensor
- 4 Intermediate unloading cart (as an option)

EXTENSION SECTION (FIG. 4)

- 1 Extension sections side walls are made of rolled steel profile for structural rigidity and ease of assembly
- 2 Support rollers are mounted at an angle of 30° for a deeper chute and a reduced risk of product spillage. B-825, B-1000K, and B-1180K models are fitted with three support rollers
- 3 The return roller is mounted under each support group

TENSIONING SECTION (FIG. 5)

- 1 Tensioning by screwed pairs. Conveyors over 30 meters have extended tensioning sections, either a tensioning rack or an intermediate tensioning post.
- 2 The section is equipped with a speed control sensor
- 3 A loading section is mounted after the tensioning section

RECEIVING DEVICES

This is a hooper for receiving raw materials from road and rail transport. A gently inclined or belt conveyor can be used. Optionally equipped with a truck unloader – a heavy-duty grating for the passage of trucks and preventing foreign objects in the conveyor, and device for adjusting capacity of transport equipment

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
Volume [m³]	32-150
Length [mm]	7,000 – 40,000
Unloading capacity [t/h]	10-500



GRAIN ELEVATOR TOWERS

Overall dimensions

- 2,500 x 2,500 mm
- 3,000 x 3,300 mm
- 4,200 x 3,300 mm
- 4,200 x 3,700 mm

Two types of towers are possible: with inclined or vertical ladders

Bearing steel structures for mounting and maintenance of the elevator are fully compliant with the industrial and fire safety requirements. Made of high strength galvanized profiles with bolted connections. Have inclined ladders with railings and intermediate platforms for rest. There are solutions for different types of bucket elevators with the possibility of installing up to 8 units. Additionally equipped with intermediate elevator maintenance platforms and strengtheners for galleries adjacent to the structure. Features fast erection of the structure (2-4 days for assemblies up to 30 meters high), reliable performance, aesthetics, and price advantage compared with counterparts made of ferrous materials. We also offer gallery supports (size 1,600 x 1,600 mm and 2,500 x 2,500 mm) and steel structures of grain cleaning plants



TRIMMING AUGERS

AS series models



capacity

25 – 350 t/h



for cleaning the residual bulk of grain in silo-type grain storages.
for unloading the last batch of grain in all types of flat bottomed silos

KEY TECHNICAL DATA

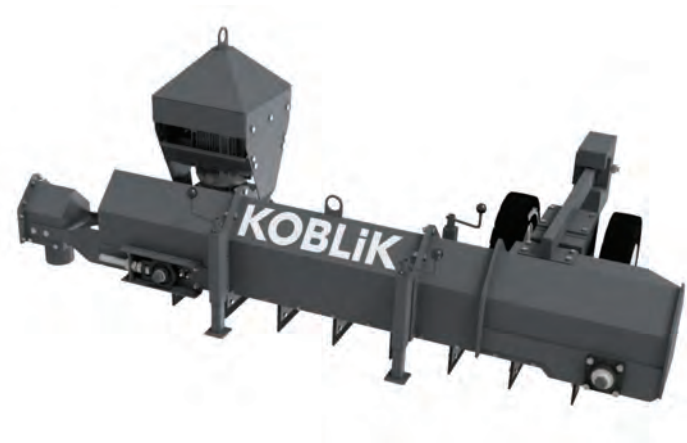
PARAMETER DESCRIPTION	VALUE					
	AS 025	AS 050	AS 100	AS 110-320	AS 150	AS 200
Capacity [t/h]	150					
Total installed power [kW]	4 – 5.5	4 – 7.5	5.5 – 18.5	7.5 – 11.25	15 – 30	18.5 – 37
Length [mm]	4,620 – 7,440	4,620 – 9,725	4,620 – 15,760	5,910 – 16,350	7,010 – 1 760	4,620 – 15 760
Width [mm]	1,010	1,418	1,418	1,380	1,418	1,418
Height [mm]	984	1,166	1,166 – 1,449	1,150	1,449	1,449
Silo diameter [m]	9.93 – 15.28	9.93 – 19.86	9.93 – 32.08	11 – 32	14.51 – 32.08	14.51 – 32.08

TRIMMING SCRAPER CONVEYOR

for cleaning the residual bulk of grain in silo-type grain storages. Reliable and high-performance. Features reliability and high performance

Addresses the issue of uneven floors in most built-up silos. In contrast to classic trimming augers, it does not get stuck and slip on uneven floors

Conveyor sections are hinged to each other, which is impossible for screw-type equivalents



ADVANTAGES OF TRIMMING CONVEYORS OVER AUGER CONVEYORS

- GRAIN MOVED BY ELASTIC SCRAPERS IS PRACTICALLY NOT DAMAGED
- CAN OPERATE ON UNEVEN FLOORS WITH NO PERFORMANCE LOSS
- THE SILO FLOOR REMAINS CLEAN AFTER THE SECOND PASS
- SAFE FOR OPERATING PERSONNEL – THERE IS NO DANGER OF THEIR CLOTHES BEING CAUGHT AND WRAPPED AROUND THE ROTATING SCREW OF THE AUGER
- THE MAIN DRIVE'S POWER IS HALF OF THAT OF A AUGER CONVEYOR AT THE SAME CAPACITY
- RELIABLE OPERATION WITH FULL IMMERSION INTO THE PRODUCT AND COLLAPSE OF THE OVERHANGING MASS
- TRIMMING TRANSPORT RUNS INSIDE THE SILO UNATTENDED
- THE RISK OF EXPLOSION OF DUST-AIR MIXTURE INSIDE THE SILO IS CONSIDERABLY REDUCED, SINCE NON-METALLIC ELASTIC SCRAPERS ARE IN CONTACT WITH THE CONCRETE FLOOR. DANGER OF SPARKS IS REDUCED TO ZERO
- THE COST OF CONVEYORS WITH ELASTIC SCRAPERS IS PRACTICALLY THE SAME AS THAT OF HIGH-QUALITY AUGER CONVEYORS WITH THE SAME CAPACITY

KEY TECHNICAL DATA

PARAMETER DESCRIPTION	VALUE
Rated capacity with the feed material density of 780 kg/m³ @ 14% moisture [t/h]	150
Max. dimensions (L/W/H) [mm]	16,350 1,395 1,020
Type	self-propelled
Drive	electrical
Type of energy consumed	AC 380 V, 50 Hz
Max. power [kW]	7.5
Max. machine weight with a set of work tools [kg]	1,592
Wheel diameter [mm]	460 ± 10

GRAVITY DEVICES

Max. steel thickness
3 mm

Pipes

Sectors joints

Dividers

Gravity equipment is lined with 6 mm thick rigid polymer to reduce grain damage during transportation, as well as to protect pipes, flow dividers, sectors and other elements.



Gate valves

REDLER GATE

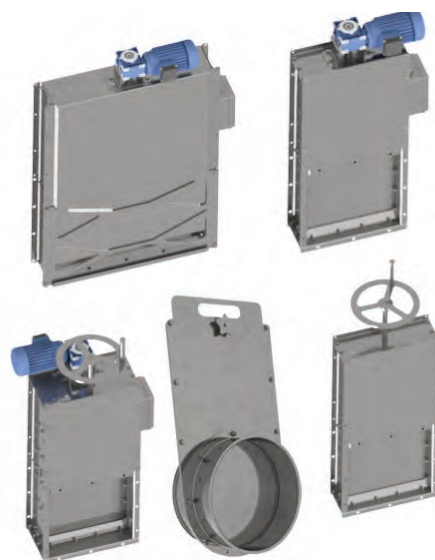
For manual / combined unloading of conveyors

ELECTRIC GATE VALVE

For unloading dry product from hopper and silos

GATE VALVE

Available in clamp and flange versions



DIVERTER VALVES

Electrically operated diverter valves are designed to regulate the unloading/loading of grain and processed grain products by redirecting the flow in the gravity channels





Official customer service



Genuine spare parts

EXPERIENCED AND QUALIFIED SERVICE TECHNICIANS ARE AVAILABLE WORLDWIDE FOR PROMPT ASSISTANCE



SERVICES

- **INSTALLATION SUPERVISION AND COMMISSIONING DURING THE CONSTRUCTION OF ELEVATORS, COMPOUND FEED MILLS & GRAIN STORAGE, CLEANING AND PROCESSING FACILITIES**
- **WARRANTY AND POST-WARRANTY MAINTENANCE, EQUIPMENT REPAIR**
- **FACILITY SURVEY AND PREPARATION FOR RETROFITTING AND PERFORMANCE ENHANCEMENT**
- **FULL TRAINING IN EQUIPMENT OPERATION**



AFTER THE WARRANTY PERIOD EXPIRES, YOU CAN ALWAYS CONTACT THE CUSTOMER SERVICE:

- **TO REPLACE WORN-OUT COMPONENTS EVEN AFTER 10 YEARS FROM THE INITIAL OPERATION OF THE EQUIPMENT**

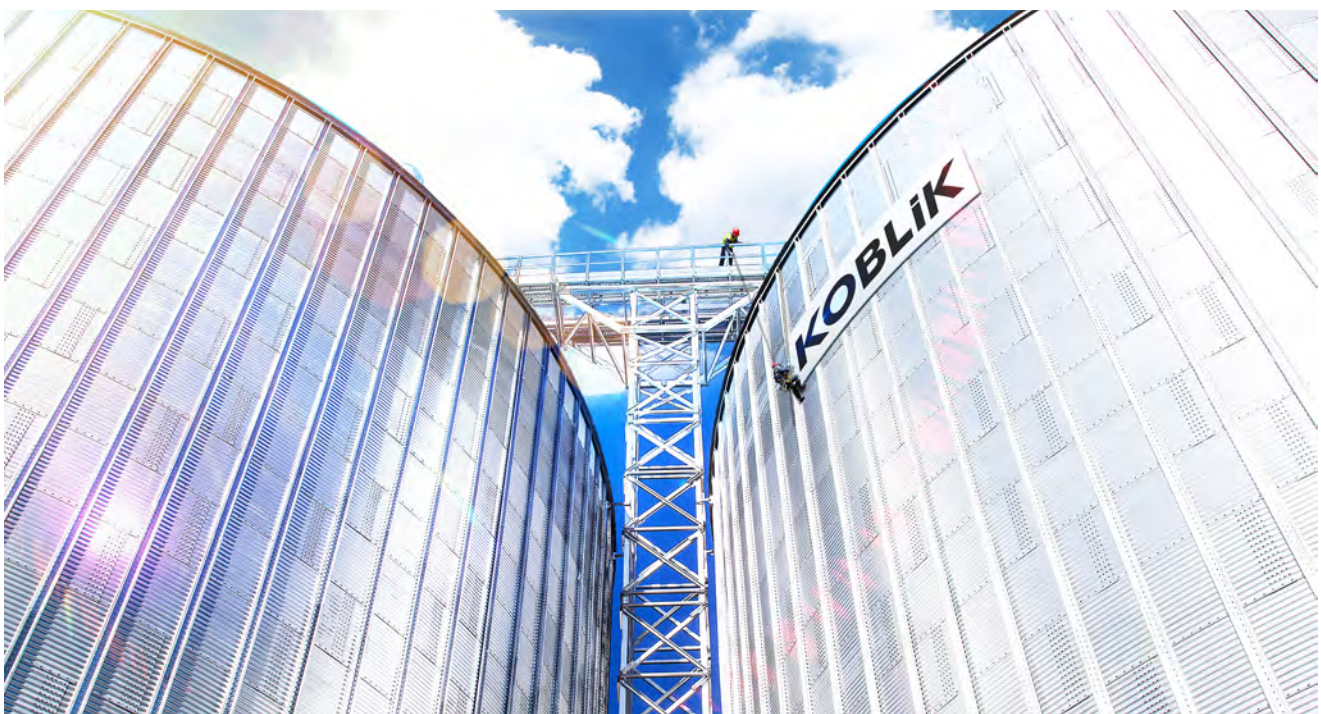


WARRANTY / POST-WARRANTY SUPPORT

We provide a 12-month warranty. During this period, the customer receives comprehensive support from the company's official service department for maintenance and repair of grain cleaning machines, conveyors, grain dryers, silos and other equipment. Skilled professionals in the shortest possible time:

- answer your questions
- provide recommendations for overcoming the challenges
- promptly identify the necessary spare parts and consumables
- make immediate repairs

- **TO HAVE ROUTINE MAINTENANCE AND PROFESSIONAL REPAIRS WITH A FULL PERFORMANCE WARRANTY**
- **TO PURCHASE THE FULL LINE OF QUALITY GENUINE ACCESSORIES**



NOTES

NOTES

NOTES



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