

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

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

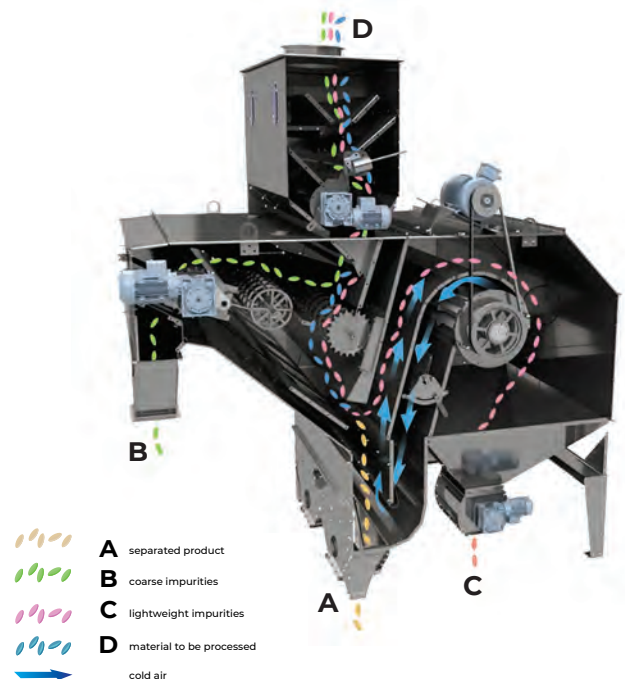
KEY TECHNICAL DATA

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			

ALFA 050



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

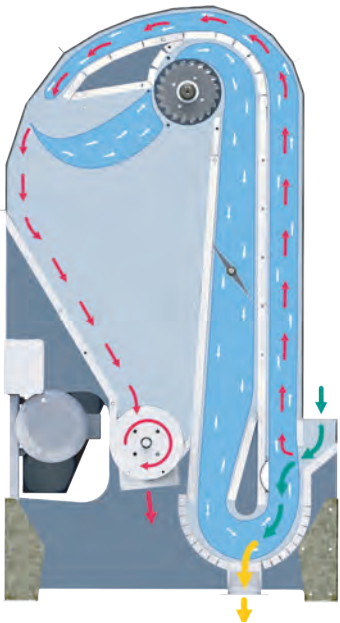
EFFECTIVELY COMPLEMENTS
all screen cleaners of domestic and foreign manufacturers

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

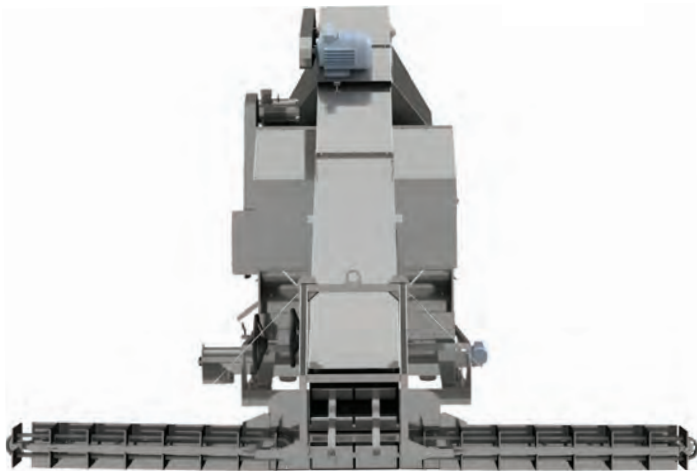
ALFA MGC 100 / ALFA MGC 150

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

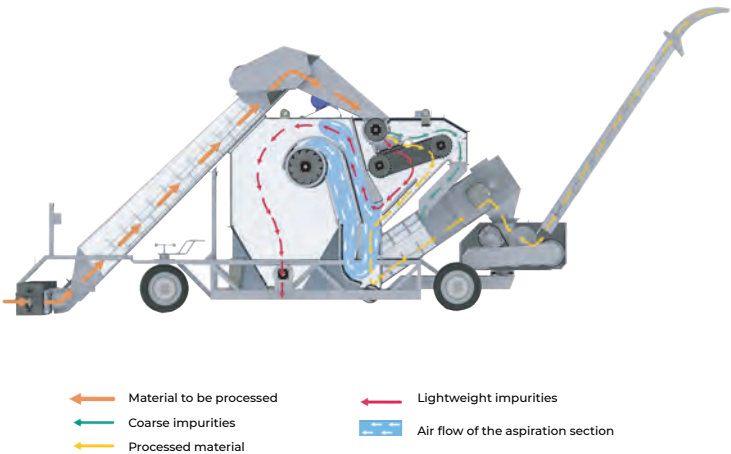
- RAPID GRAIN LOADING AND UNLOADING SYSTEM**
effective for preliminary cleaning of the incoming grain, legumes and oil crops from weed impurities
- PROCESSES PEAK PRODUCT FLOWS IN A TIMELY MANNER**
during harvesting
- UP TO 10 HARVESTERS**
handled at the same time
- EASY TO MOVE**
to any job site using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

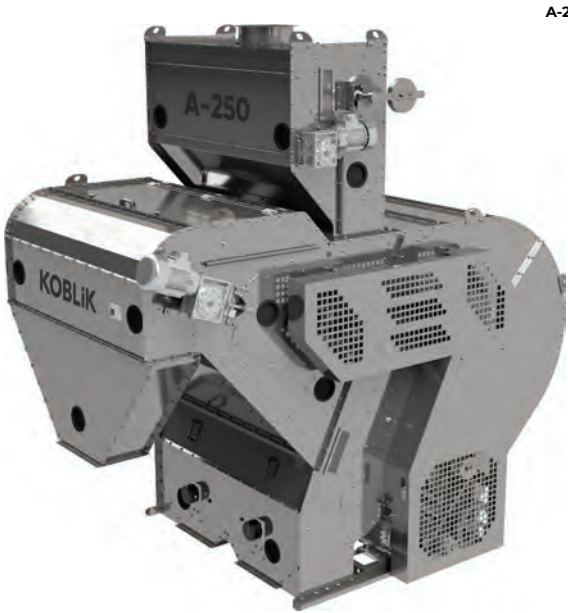
A-075 / A-125 / A-175 / A-250

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

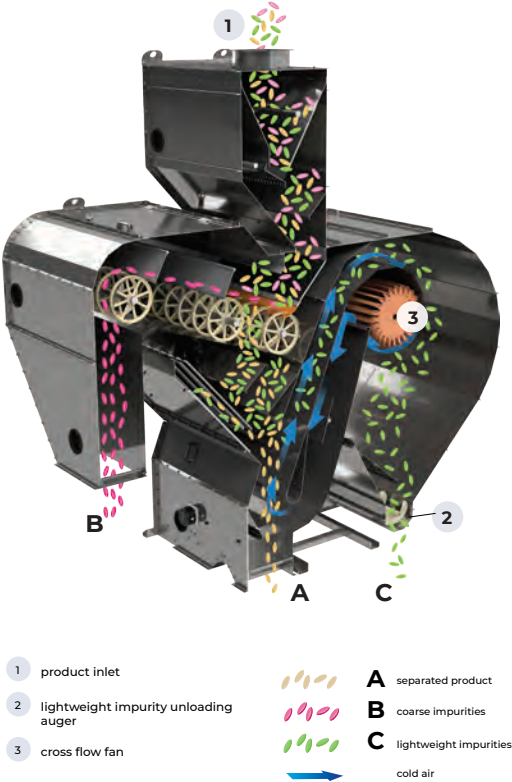
ADVANTAGES

- 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!

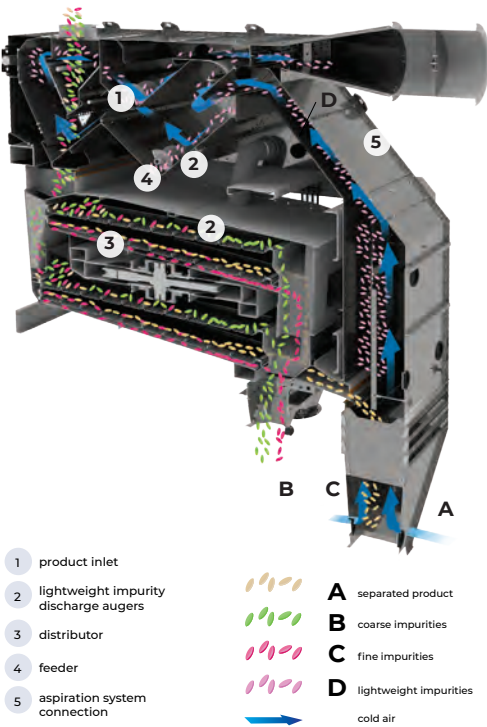
U-120

- 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.

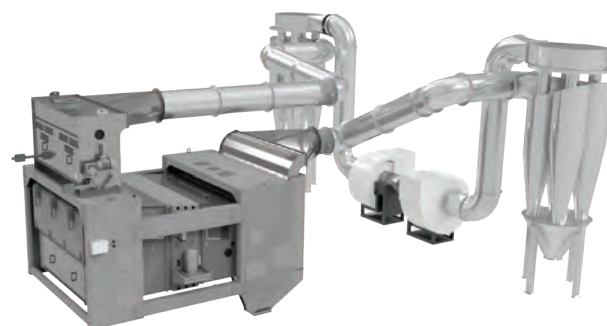
ADVANTAGES

- **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 our welding deformations
- **LONG SERVICE LIFE**
thanks to galvanized parts



NEW!

P-400

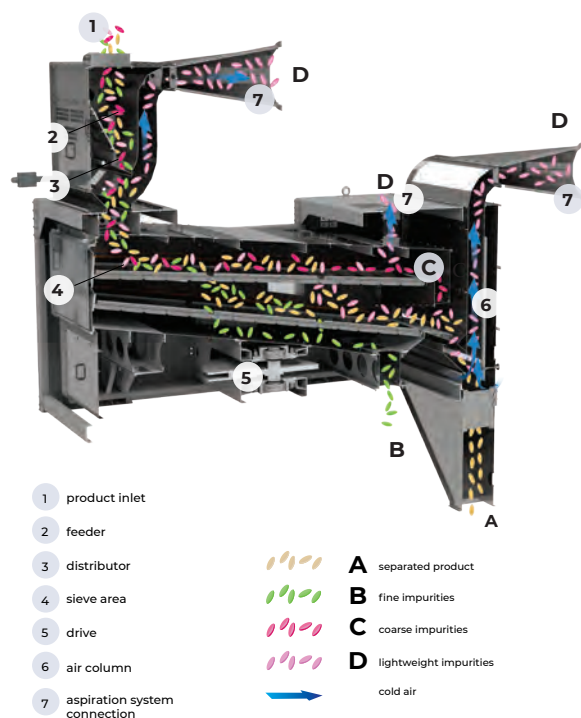


P-200 WITH ASPIRATION SYSTEM

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

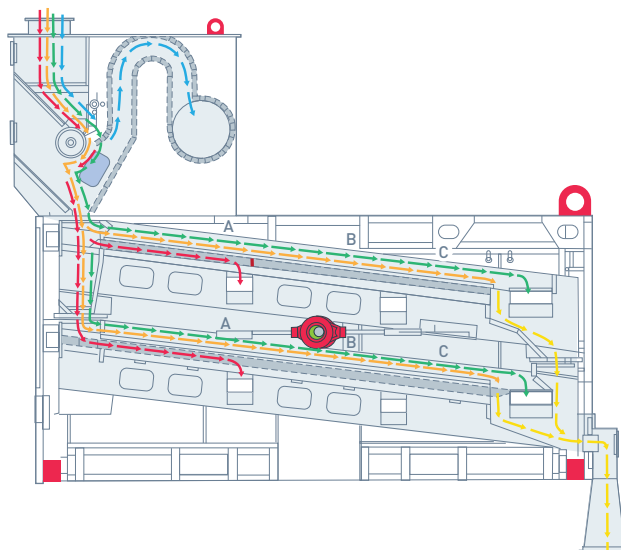
PARAMETER DESCRIPTION	BETA 060		BETA 120		BETA 180		BETA 240	
	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B	TYPE A	TYPE B
BETA industrial-type Min. rated capacity [t/h]								
Preliminary cleaning [t/h]	50		100		150		200	
Primary cleaning [t/h]	25		50		75		100	
BETAVersatile Min. rated capacity [t/h]								
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

Grain heap

Air flow

Lightweight impurities

Fine impurities

Forage

Clear grain

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



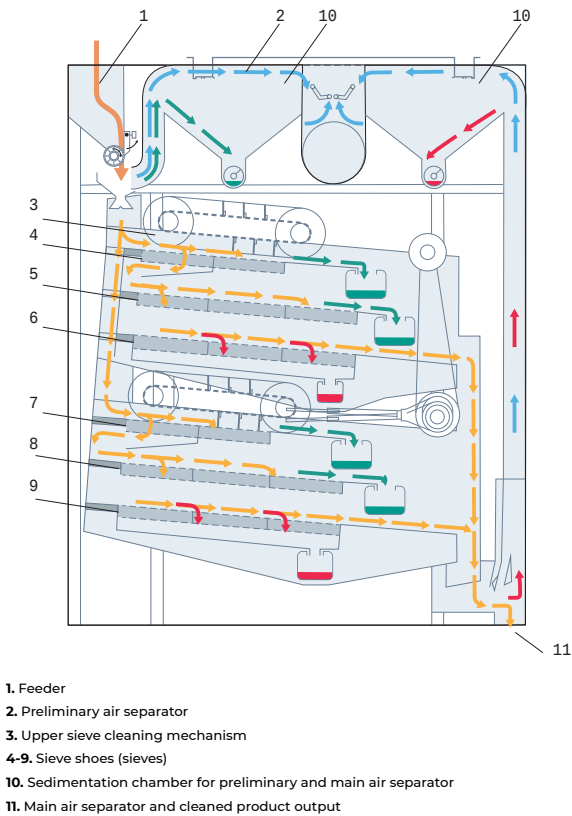
ADVANTAGES

- 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



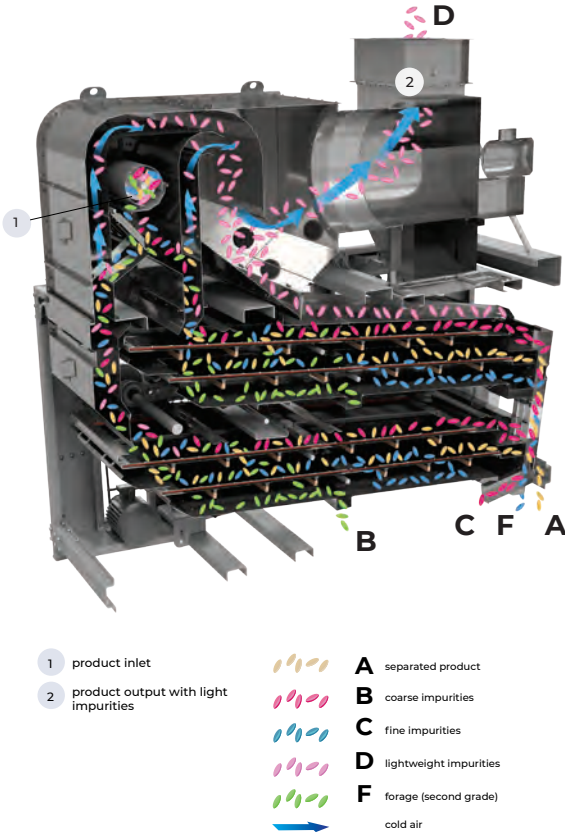
ADVANTAGES

- LOW-COST**
when reconstructing the grain cleaning plants
- LONG SERVICE LIFE**
by using high-quality galvanized steels
- HIGH RELIABILITY**
thanks to the new drive layout of the sieve shoes
- 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



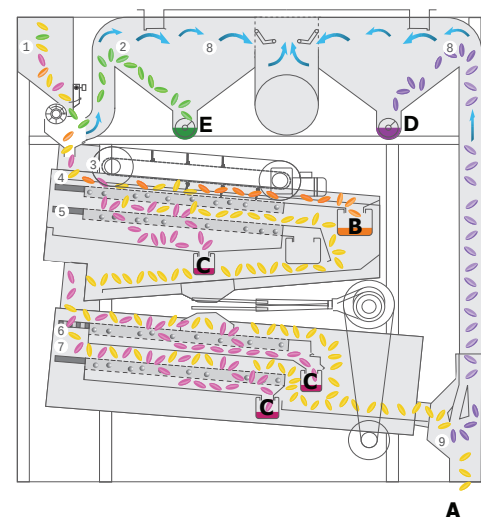
ADVANTAGES

- **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

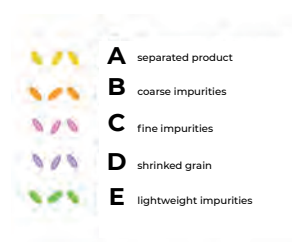
KEY TECHNICAL DATA

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



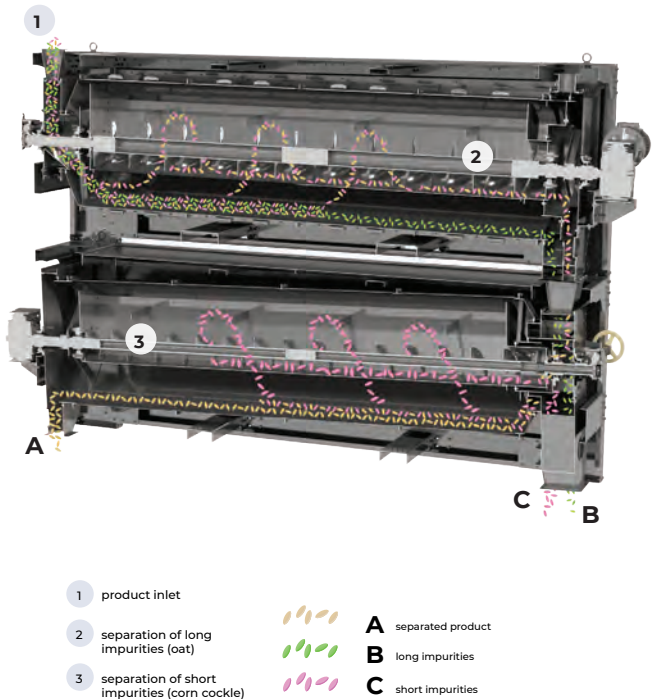
ADVANTAGES

- 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

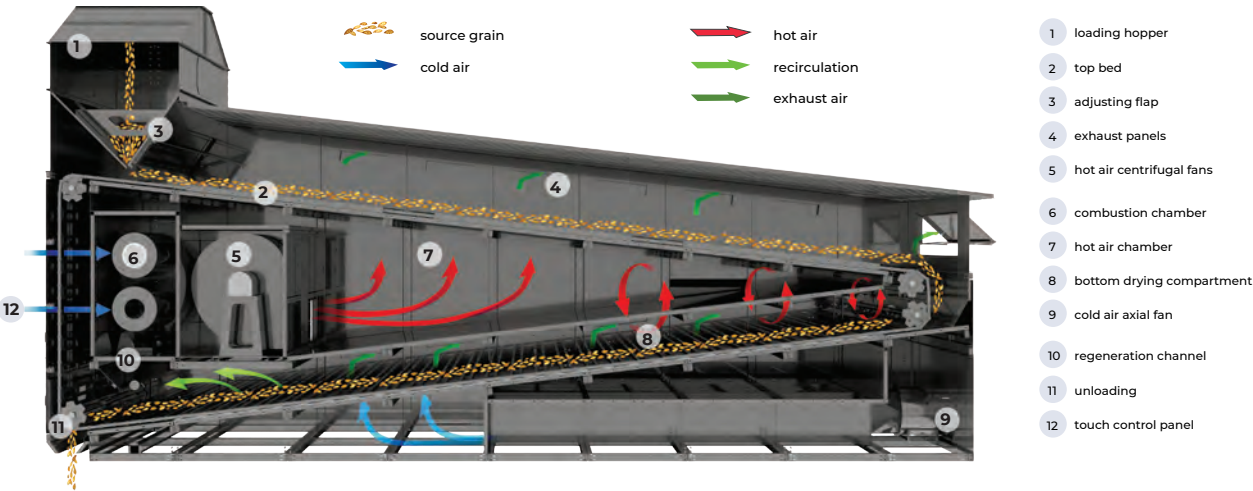
The conveyor dryer is not sensitive to the raw material – it dries heaps of any clogging and moisture content equally efficiently. It is suitable for small farms seeking inexpensive equipment to get it up and running in the shortest possible time. It can be transported on a trailer due to its modular,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



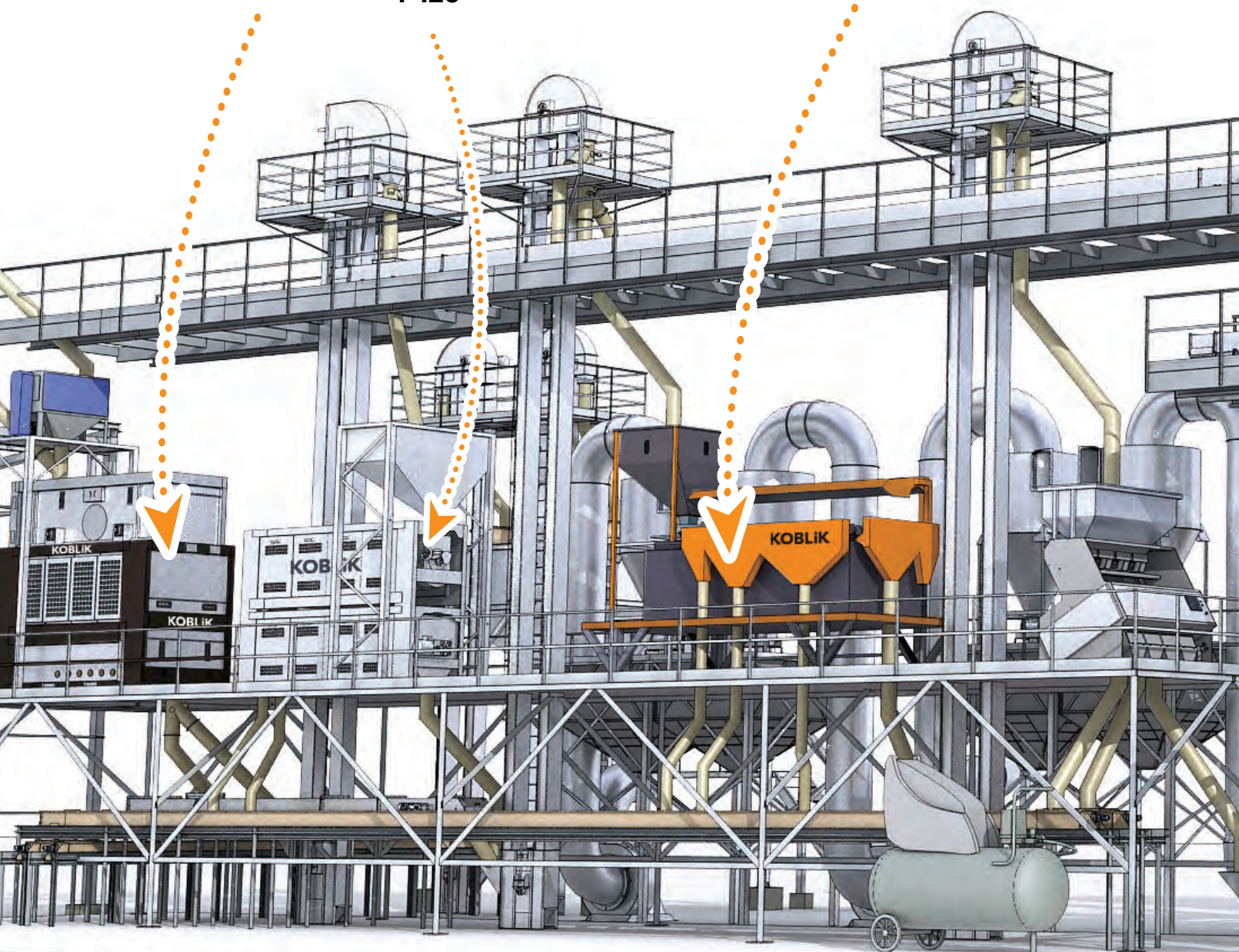
SEED PRODUCER

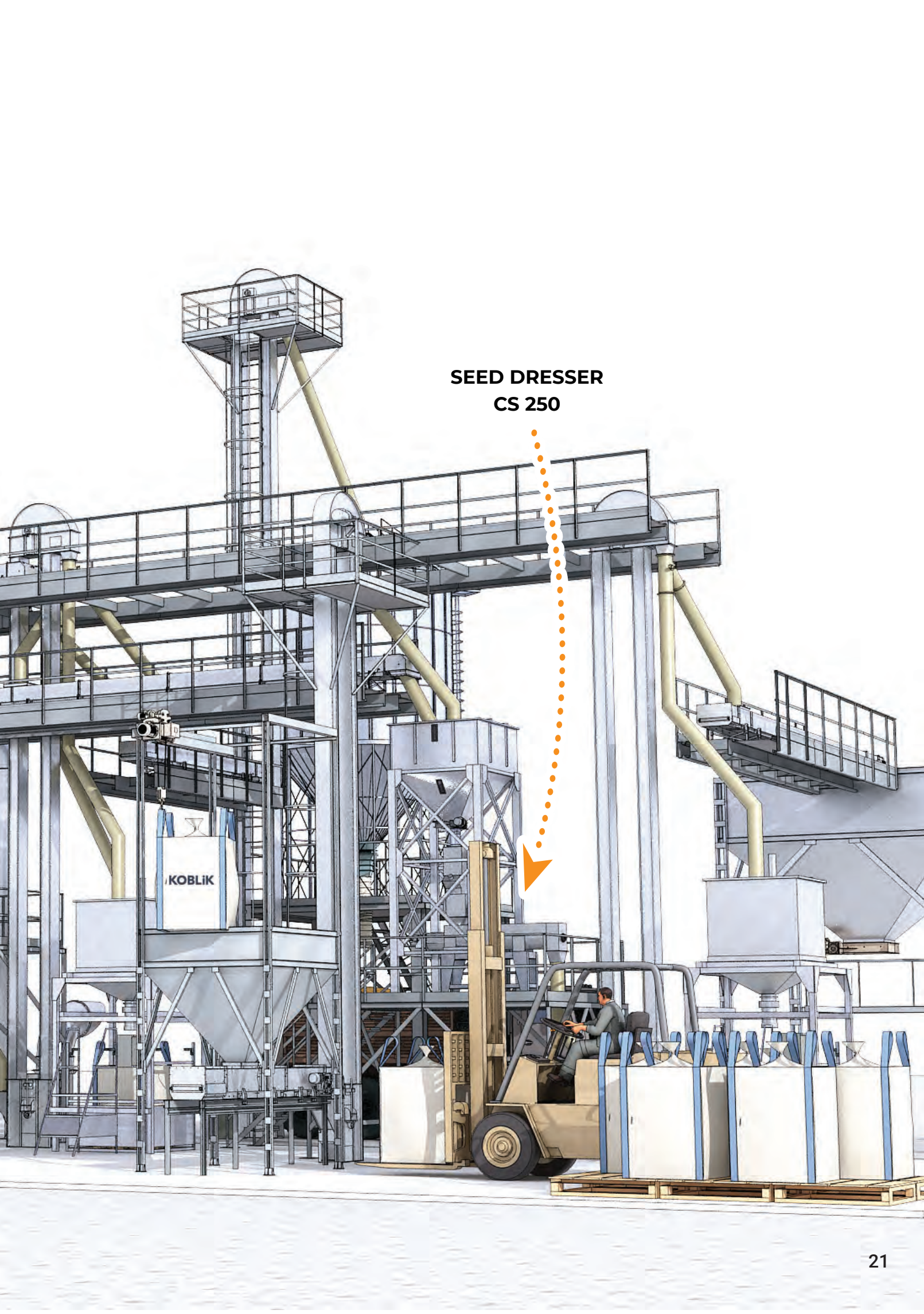
(SCHEME EXAMPLE)

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

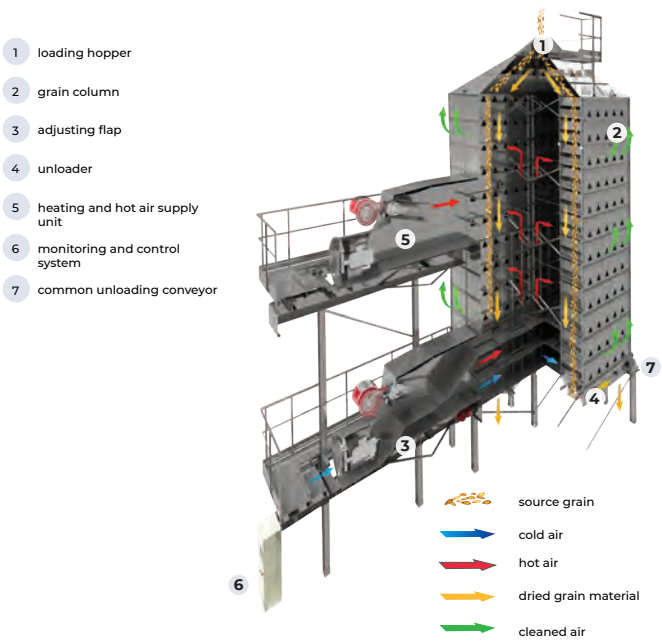
The modular grain dryer is a full-featured column dryer. It is featured by quick start-up and the lack of complex design solutions when building the drying complex. Thanks to the modular design and small size, the assembly and installation of the grain dryer at the site takes up to 10 times less time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

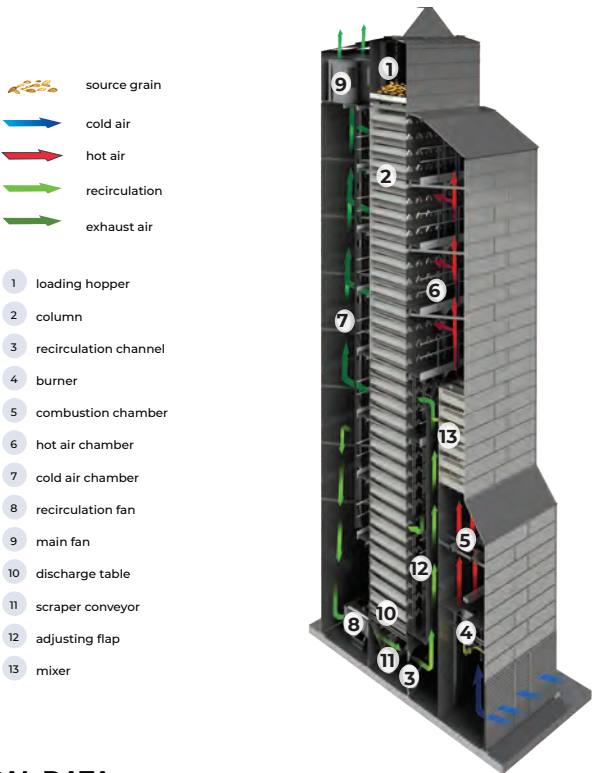
- LOWER POWER CONSUMPTION**
up to 30% less than other dryers due to the heat recovery system (air reuse)
- EVEN DRYING**
biconical boxes distribute air evenly over the grain column
- HOUSING AREA 100% INSULATED**
reduced heat loss due to weather changes makes the dryer cost-effective and safe
- LOW NOISE 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
	total	59.4	70	80.6	91.2	101.8	118.8	140	161.2	203.6
Overall dimensions in operating position without conveyor (L/W/H) [mm]		7,600	7,600	7,600	8,700	8,700	7,600	7,600	7,600	8,700
		5,300	5,300	5,300	5,300	5,300	9,200	9,200	9,200	9,200
		14,400	16,500	18,600	20,800	22,900	13,400	15,500	17,600	21,900
Max. total installed power [kW]		30.1	30.1	45.4	61	62	60.2	60.2	90.8	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



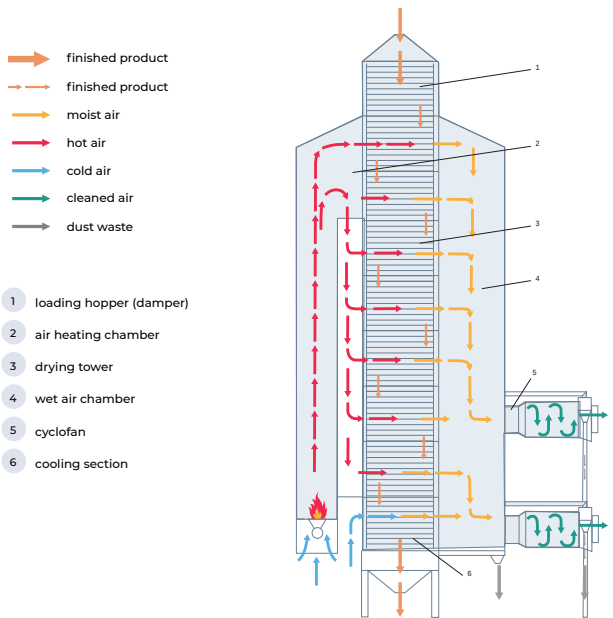
NEW!

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		171.6
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

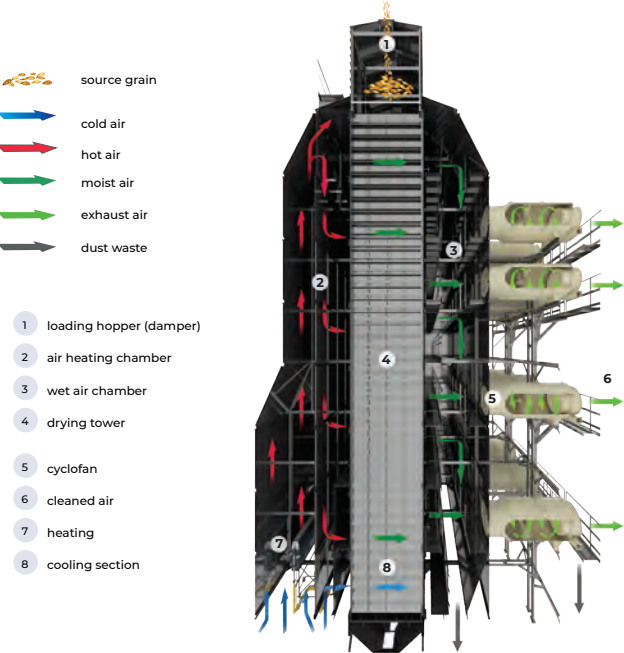
Louvered dryers are simple, cost-effective, and well suited for drying a wide range of crops, especially oilseeds. Made of quality galvanized steel sheet. The dryer column consists of block modules with ducts for efficient air supply and exhaust



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

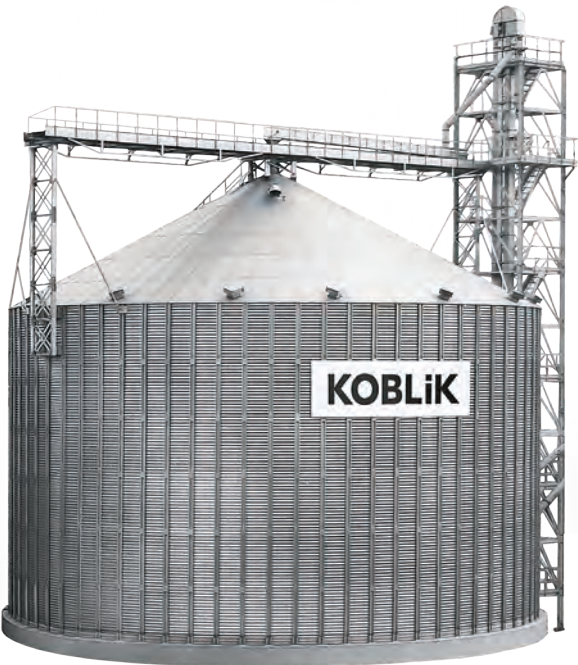
Flat bottom silos can store up to 20,360 tons of grain. Most of the grain is discharged by gravity through special holes in the flat silo bottom. Silos offer reliable long-term storage of conditioned grain and temporary (with ventilation and cooling) storage of wet grain with the lowest losses and costs.

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



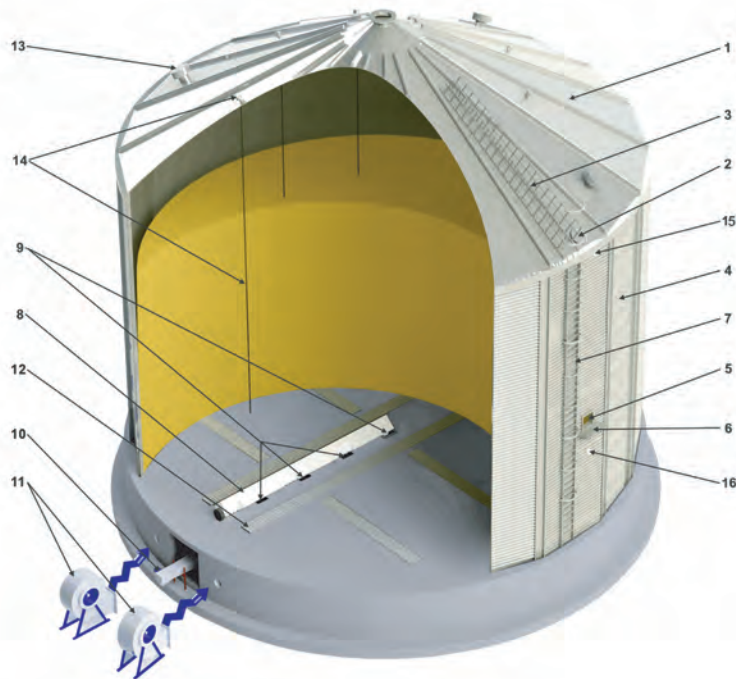
SPECIFICATIONS

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

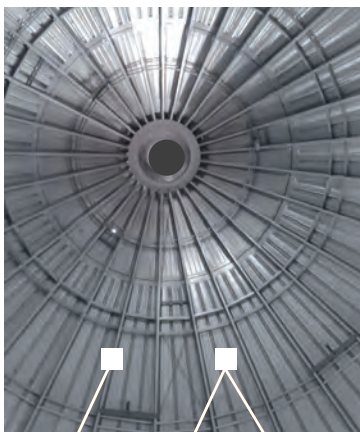
TEMPERATURE AND LEVEL MONITORING SYSTEM

- 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

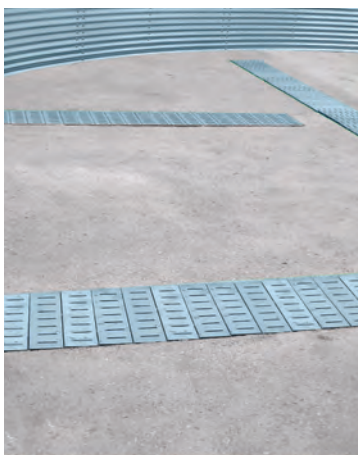


Silos are loaded with **TRANSPORT SYSTEMS LOCATED ON GALLERIES WITH SUPPORT STRUCTURES**

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

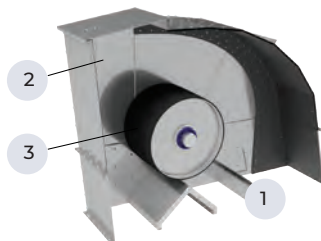
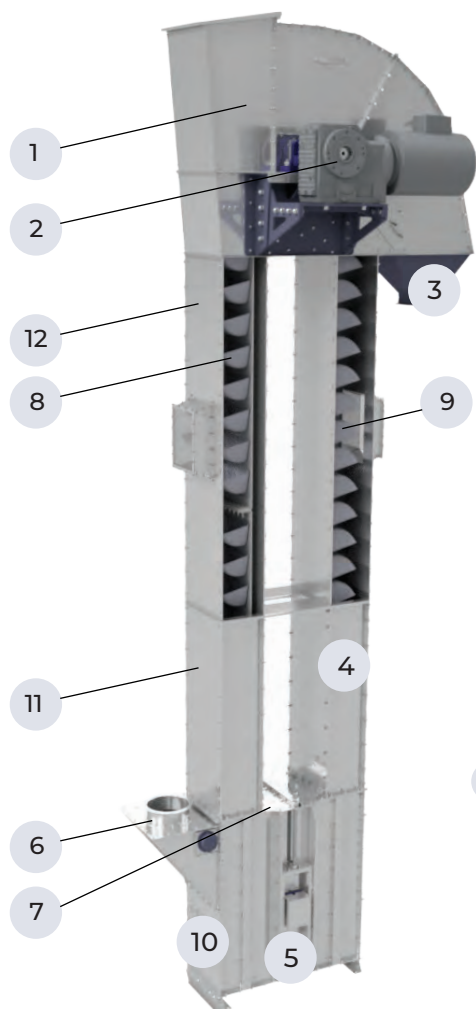


Fig. 1

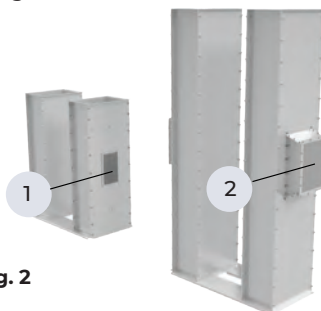


Fig. 2

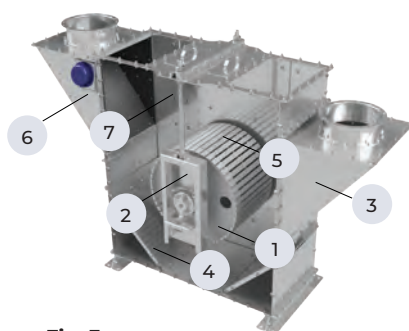


Fig. 3

- 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

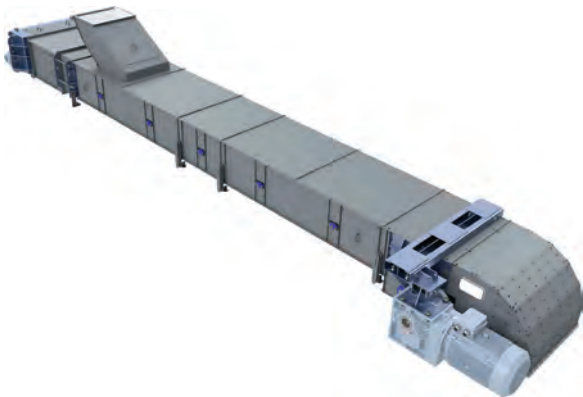


capacity up to
1,200 t/h

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

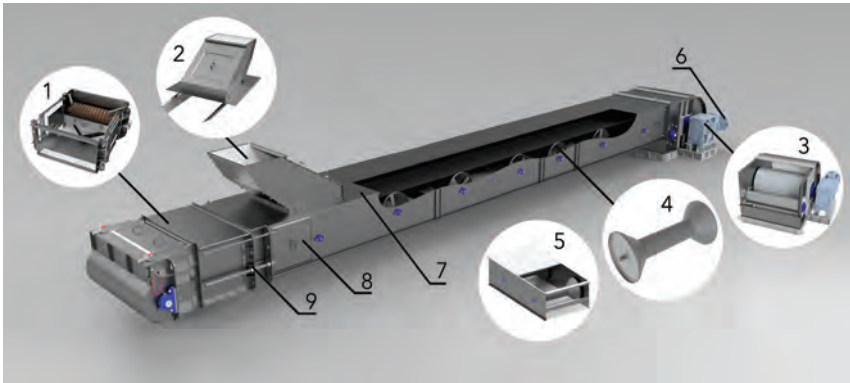
maximum conveyor
slope
10°



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			

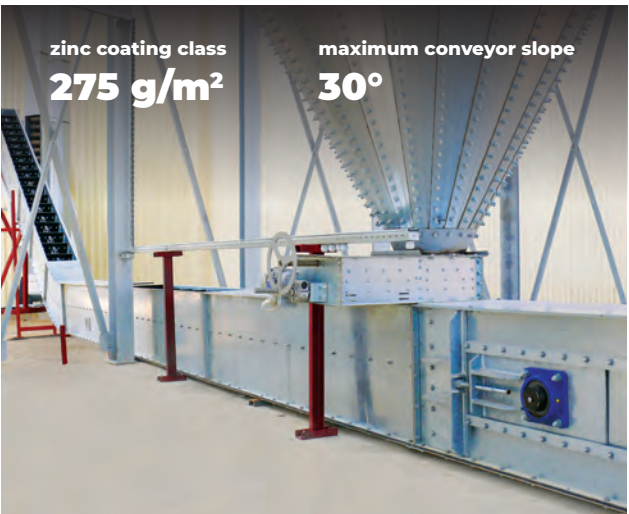
CONVEYORS

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°

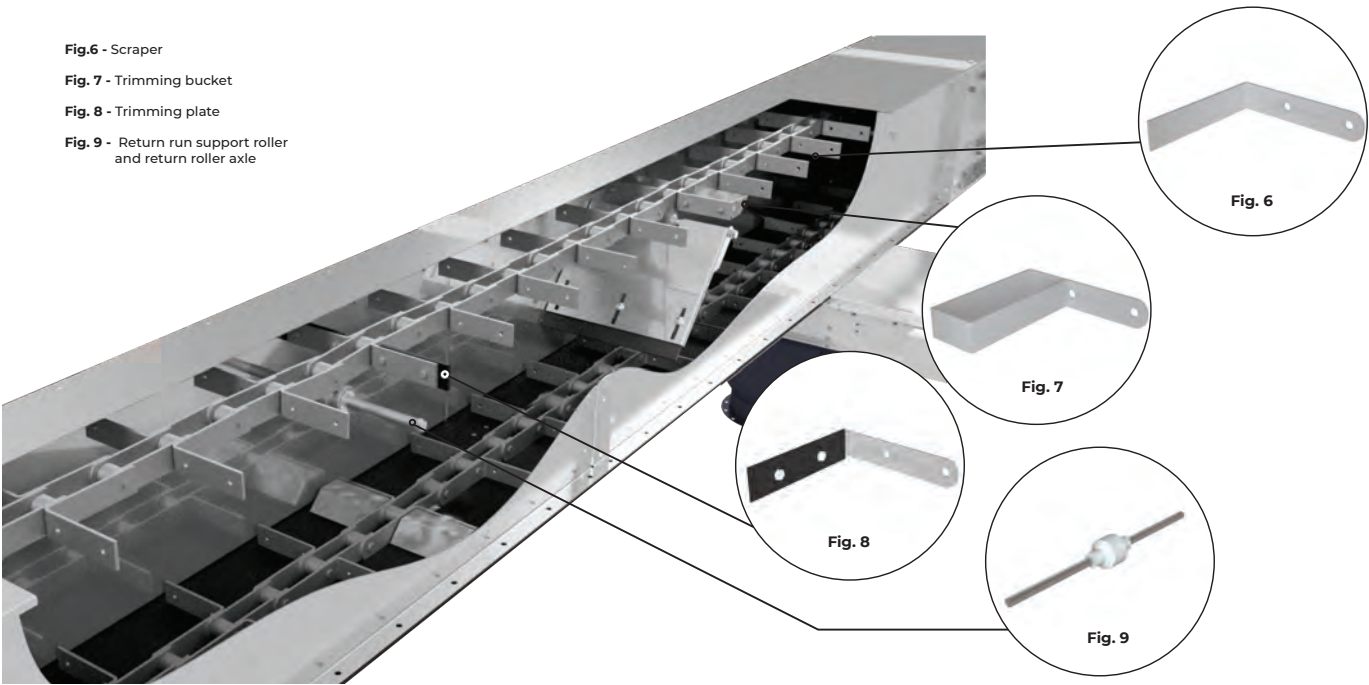


ADVANTAGES

- 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

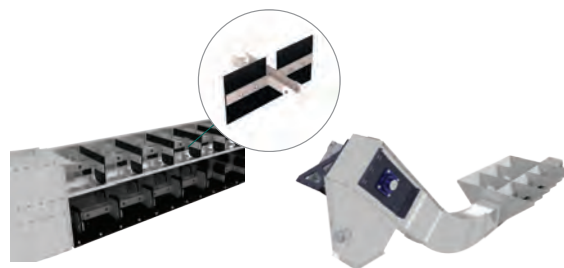
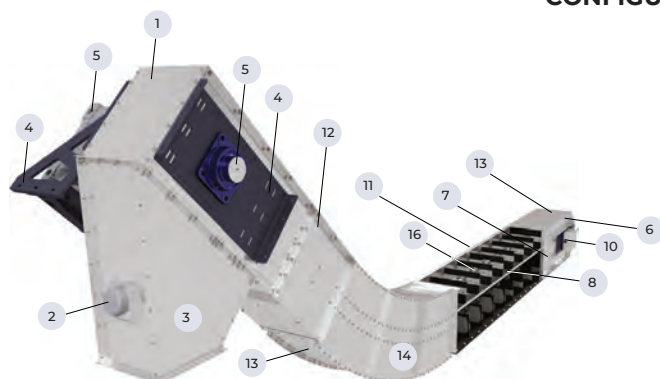


Fig. 1

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 | |

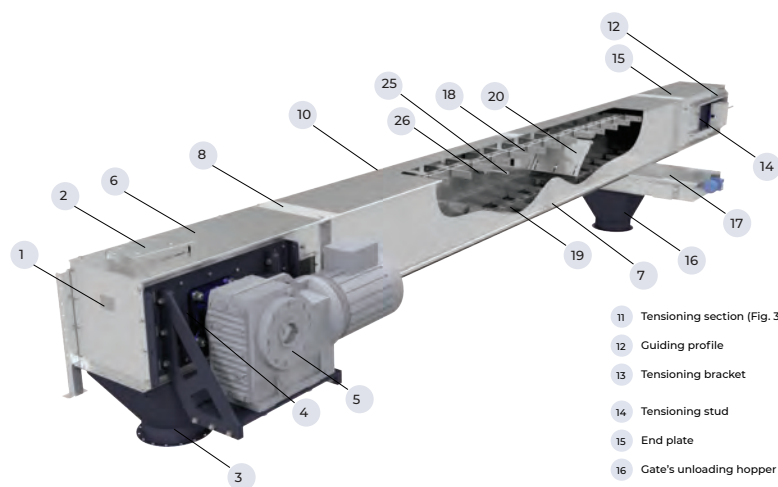
POLYMER SCRAPERS

- 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

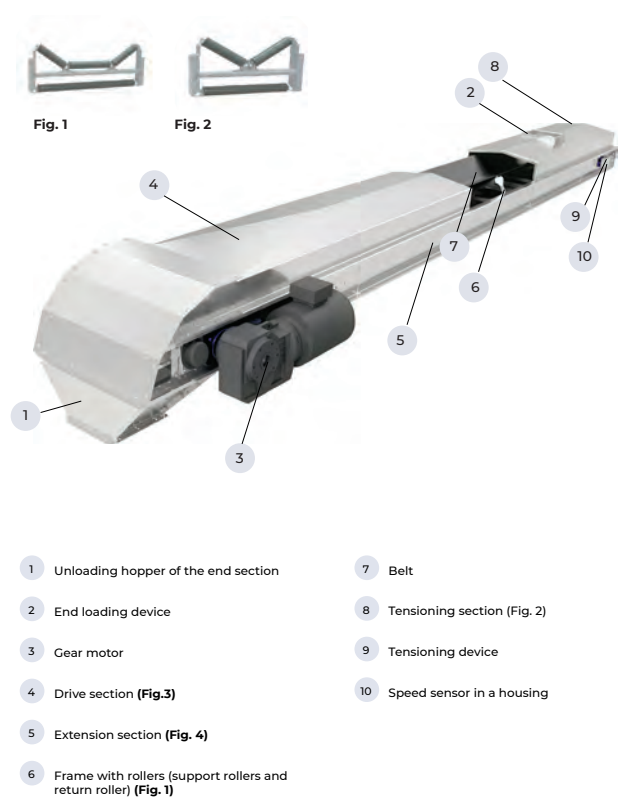
THE EQUIPMENT IS FITTED WITH AN OVERFILL SENSOR AND A SPEED CONTROL SENSOR



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



- 1

Unloading hopper of the end section
- 2

End loading device
- 3

Gear motor
- 4

Drive section (Fig.3)
- 5

Extension section (Fig. 4)
- 6

Frame with rollers (support rollers and return roller) (Fig. 1)
- 7

Belt
- 8

Tensioning section (Fig. 2)
- 9

Tensioning device
- 10

Speed sensor in a housing



- 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

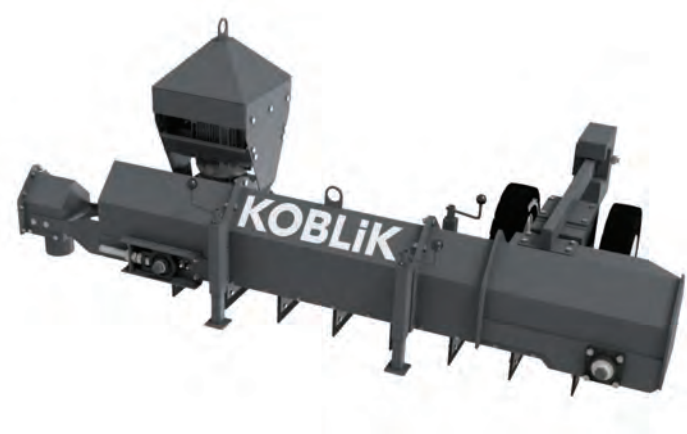
PARAMETER DESCRIPTION	VALUE					
	AS 025	AS 050	AS 100	AS 110-320	AS 150	AS 200
Capacity [t/h]	150					
Total installed power [kW]	4 – 5.5	4 – 7.5	5.5 – 18.5	7.5 – 11.25	15 – 30	18.5 – 37
Length [mm]	4,620 – 7,440	4,620 – 9,725	4,620 – 15,760	5,910 – 16,350	7,010 – 1 760	4,620 – 15 760
Width [mm]	1,010	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

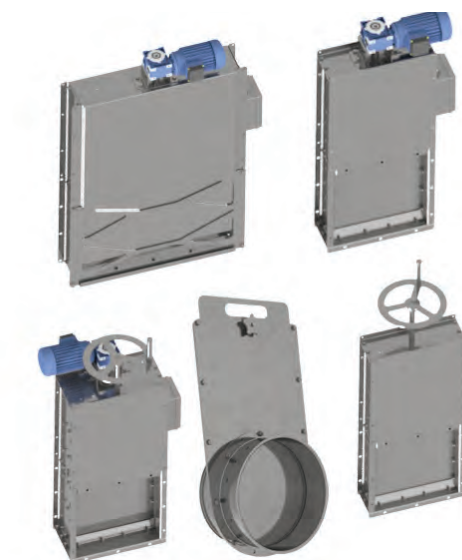
For manual / combined unloading of conveyors

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**

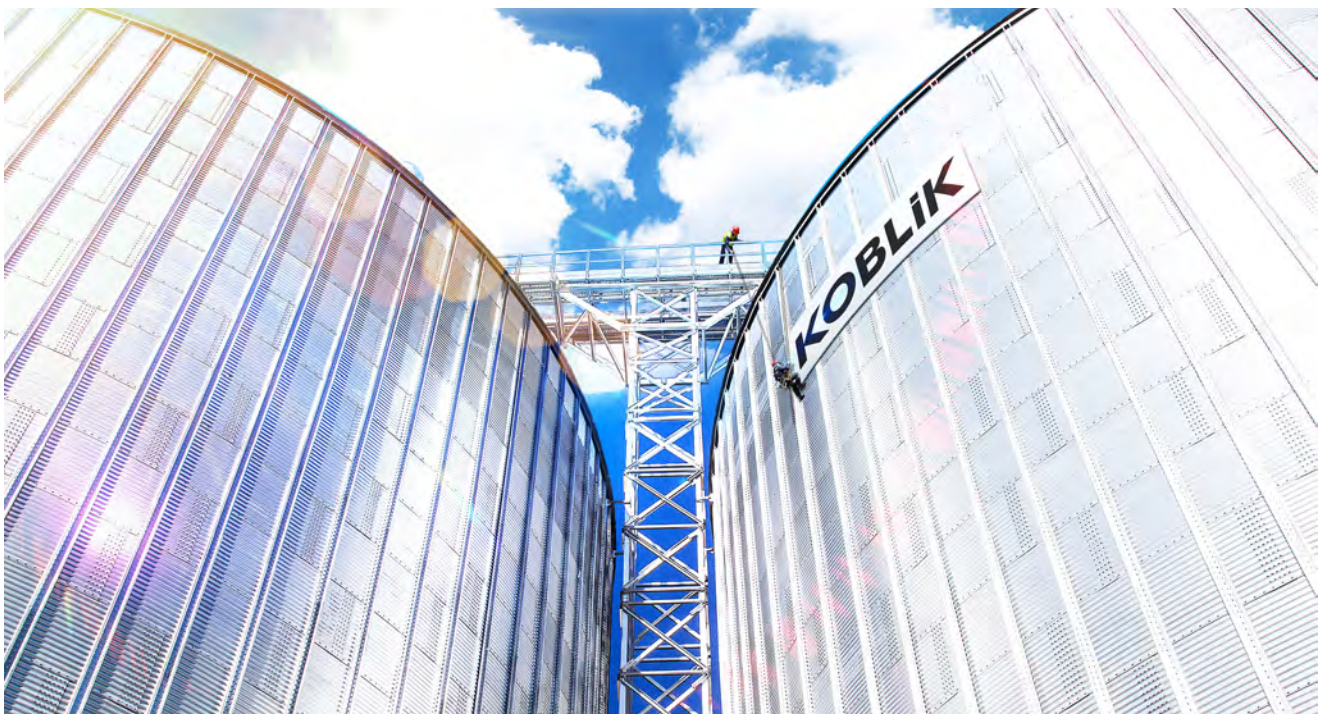


WARRANTY / POST-WARRANTY SUPPORT

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



KOBLIK.RU

285/5 Soldatskoe Pole St., Voronezh, Russia, 394056

Tel. +7 (473) 206-77-77 info@koblik.ru

Dealer Centre in your city

KOBLIK GROUP

2025



CATALOG OF TRAILED VEHICLES

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PRODUCTION ELEVATOR (MIXED FEED) UP TO 130,500 TONS

Agroeco Group of Companies, Voronezh region, Pavlovsky district, village of Gavrilsk



HARVESTING COMPLEX (LIVESTOCK FEED) - STORAGE OF UP TO 42,500 TONS

LLC SHP Novomarkovskoye (AH Molvest), Voronezh region, Novomarkovka village



HARVESTING COMPLEX (COMPOUND FEED) UP TO 10,500 TONS

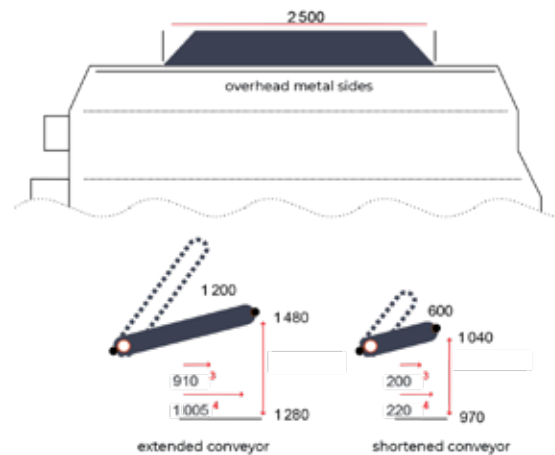
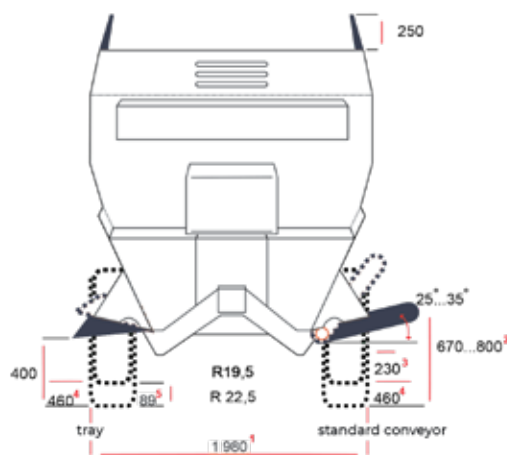
JSC "Ryazanskiy svinocomplex", Ryazan region.

MH SERIES

SHREDDERS-MIXERS-FEED DISTRIBUTORS WITH HORIZONTAL AUGERS

Designed for the preparation of a complete feed mixture (CFM) from components (green mass, silage, haylage, loose and pressed hay, straw, compound feed, root crops, briquetted and liquid feed additives)

They are equipped with an electronic weighing system, which significantly improves control over loading and unloading of the components of the mixture

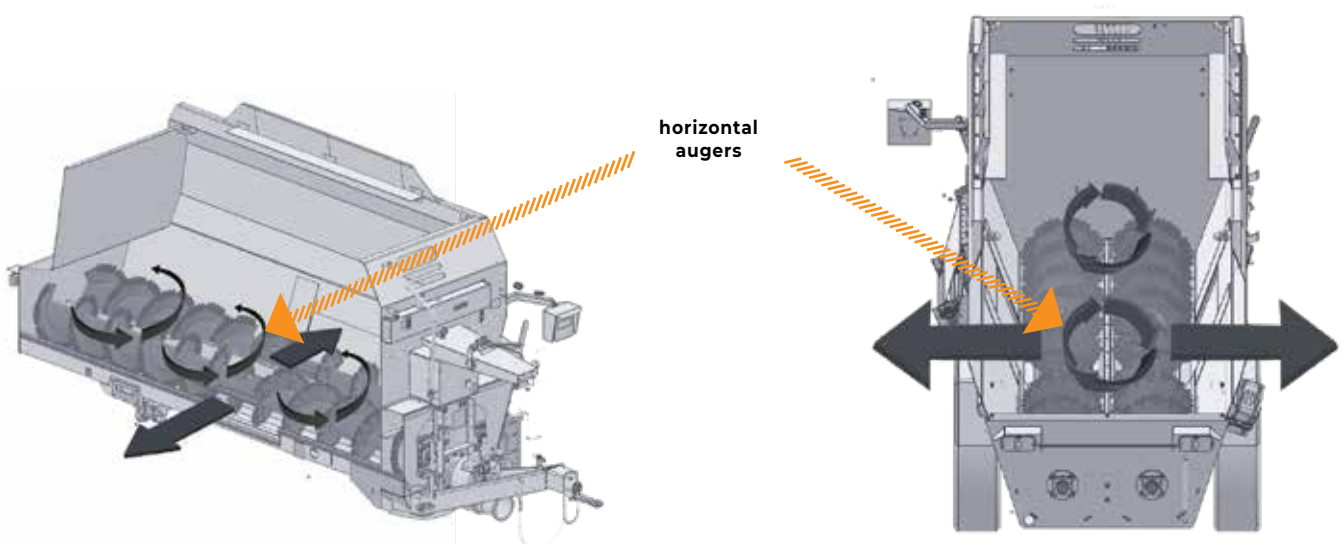


- ¹ Size on the outer surfaces of the wheels 22.5 mm (with basic configuration) MH 120
- ² Height of unloading by conveyor at slopes of 25-35° degrees, mm height
- ³ Size for calculating the width of the feed dispenser on the

conveyor side in the transport position, mm

- ⁴ Size for calculating the width of a feed distributor a tray / conveyor in the working position at maximum opening, mm
- * When using wheels R19.5, all height dimensions are reduced

FEATURES OF MACHINES OPERATION WITH HORIZONTAL AUGERS



Basic models of the MH series

MH 080 / MH 150

ADVANTAGES

- **TWO VERSIONS WITH UPPER AND LOWER COUPLING** for compatibility with tractors of different models, including tractors of the MTZ type
- **ADDITIONAL FILTER ELEMENT AT THE INLET OF THE HYDRAULIC PUMP**
- **THE POSSIBILITY OF USING ON STANDARD CONSTRUCTION SITES** compact dimensions, corresponding to the geometry of the tractor
- **WEIGHT SYSTEM ON ALL MODELS OF THE SERIES**
- **INCREASED RELIABILITY AND LOWER LOAD ON THE HYDRAULIC MOTOR** due to the autonomous circuit of the hydraulic system
- **WIDE-ANGLE DRIVESHAFT WITH SAFETY AND OVERRUNNING COUPLINGS** with a maximum angle of up to 80° degrees
- **A TWO-SPEED STEP-DOWN GEARBOX** already in the basic configuration allows you to use four feed mixing modes, (saving time, engine life, fuel by 20%)
- **A SET OF SUPERSTRUCTURED METAL SIDES**
- **HIGH GROUND CLEARANCE** for use in adverse road conditions

MH 080



MH 150



BASIC TECHNICAL DATA

NAME	MEANING	
	MH 080	MH 150
Load capacity,t/ Hopper capacity, m ³	3,5 / 8	5 / 15
Weight, t	4,5	5,6
Overall dimensions (d/w/h) mm	5 690	6 760
	2 330	2 360
	2 380	2 750
Ground clearance, mm	250	360
The minimum height of unloading the feed mixture, mm	810	920
Transport speed with/ without cargo, km/h	8,0 / 12,0	
Working speed when distributing feed, km/h	5	
Two-speed gearbox	option	basic equipment
Number of augers	2	
Aggregation	of the lower coupling	lower coupling
Tractor traction class /Power kW, not less (hp)	1,4 / 50 (68)	2,0 / 55 (75)
Tire size (basic version)	265/70-R19,5	385/65-R22,5

FEATURES



Remote control



A second unloading conveyor for working on both sides



The bottom of the hopper is made of 8 mm thick stainless steel



Magnetic Metal Object Catcher 800 mm

Models of the MH series with a loading mill

MH 120M / MH 150M

They differ from the basic model by the presence of a milling cutter designed to load silage directly from the silo trench. The excavation and loading of the silo with a milling cutter is carried out in vertical layers without violating the integrity of the adjacent layers, which protects the feed from secondary fermentation, preserving its nutritional properties. The reversible rotation of the milling cutter allows the silo to be loaded along the trench height with a capacity of more than 3 tons in 5 minutes

ADVANTAGES

- REDUCTION OF FEED PREPARATION TIME**
due to simultaneous loading and mixing of feed components in the mixing hopper of the feed dispenser
- INCREASED RELIABILITY**
thanks to the autonomous circuit of the hydraulic system



BASIC TECHNICAL DATA

NAME	MEANING	
	MH 120M	MH 150M
Load capacity,t/Hopper capacity, m³	3,5 / 12	4,5/ 15
Weight, t	5,9	6,8
Overall dimensions (d/w/h) mm	7 070	7 480
	2 220	2 360
	2 600	2 750
Ground clearance, mm	310	360
The maximum height of unloading the feed mixture, mm	830	1220
Transport speed with/without cargo, km/h	8,0 / 12,0	
Working speed when distributing feed, km/h	5	
Two-speed gearbox	basic equipment	
Number of augers	2	
Aggregation	of the upper / lower coupling	lower coupling
Tractor traction class/Power kW, not less (hp)	1,4 / 55 (75)	2 / 60 (80)

FEATURES



High mobility milling loader



Bulldozer knife for dense masses



Loading the feed silo in the mixing hopper



The lifting height of the milling cutter is up to 4 meters

Model of the MH series with a grab loader

MH 120G

A grab loader mounted on the back wall (unlike most analogues, where the grab is located on the side), mechanizes the loading of long-fiber feed components (hay, straw, haylage) into the mixing bath of the feeder

ADVANTAGES

- THE POSSIBILITY OF FEEDING EQUIPMENT INTO THE LOADING AREA BY REVERSING THE TRACTOR
- STANDARD MACHINE DIMENSIONS IN HEIGHT AND WIDTH, WITHOUT INCREASING THE DIMENSIONS OF THE LOADER PROTRUSION due to the ergonomic location of the grab



BASIC TECHNICAL DATA

NAME	MEANING
	MH 120G
Load capacity,t/ Hopper capacity, m³	3,5 / 12
Weight, t	5,4
Overall dimensions (d/w/h) mm	7 010
	2 235
	2 580
Ground clearance, mm	365
The maximum height of unloading the feed mixture, mm	760
Transport speed with/ without cargo, km/h	8,0 / 12,0
Working speed when distributing feed, km/h	5
Two-speed gearbox	basic equipment
Number of augers	2
Aggregation	of the upper / lower coupling
Tractor traction class/Power kW, not less (hp)	1,4 / 50 (68)

FEATURES



Convenient mechanized loading up to 300 kg



The angle of rotation of the grab is -240° without turning the machine



The maximum (and sufficient) boom reach is 3.2 m (loading height is 4 m)



The grab does not go beyond the dimensions of the feeder

Model of the MH series with an increased volume of the hopper

MH 120

The feed dispenser is designed for crushing, mixing and distributing feed mixtures

ADVANTAGES

- THE INCREASED VOLUME OF THE HOPPER is 12.8 m³
- INCREASED VOLUME HYDRAULIC TANK – 45 l
- THE POSSIBILITY OF USING ON-SITE TYPICAL BUILDINGS compact dimensions, consistent with the geometry of the tractor
- WEIGHT SYSTEM ON ALL MODELS OF THE SERIES
- INCREASED RELIABILITY thanks to the autonomous circuit of the hydraulic system
- THE CONVENIENCE OF SUPPLEMENTING THE FEED MIXTURE WITH PREMIXES through the opening back cover of the hopper
- INCREASED STRENGTH OF THE BOTTOM OF THE HOPPER due to the stainless steel lining

BASIC TECHNICAL DATA

NAME	MEANING
	MH 120
Load capacity,t/Hopper capacity, m ³	4 / 12,8
Weight, t	4,9
Overall dimensions (d/w/h) mm	6 380 2 180 2 600
Ground clearance, mm	350
The minimum height of unloading the feed mixture, mm	820
Transport speed with/without cargo, km/h	8,0 / 12,0
Working speed when distributing feed, km/h	5
Two-speed gearbox	basic equipment
Number of augers	2
Aggregation	of the upper / lower coupling
Tractor traction class/Power kW, not less (hp)	1,4 / 50 (75)
Tire size (basic version)	295/80-R22,5

MH 120



FEATURES



Stainless steel inserts with a thickness of 3 mm on the bottom and side surfaces



Opening lid on the back wall of the hopper



Possibility of execution of the bottom of the hopper with a thickness of 12 mm (long service life)



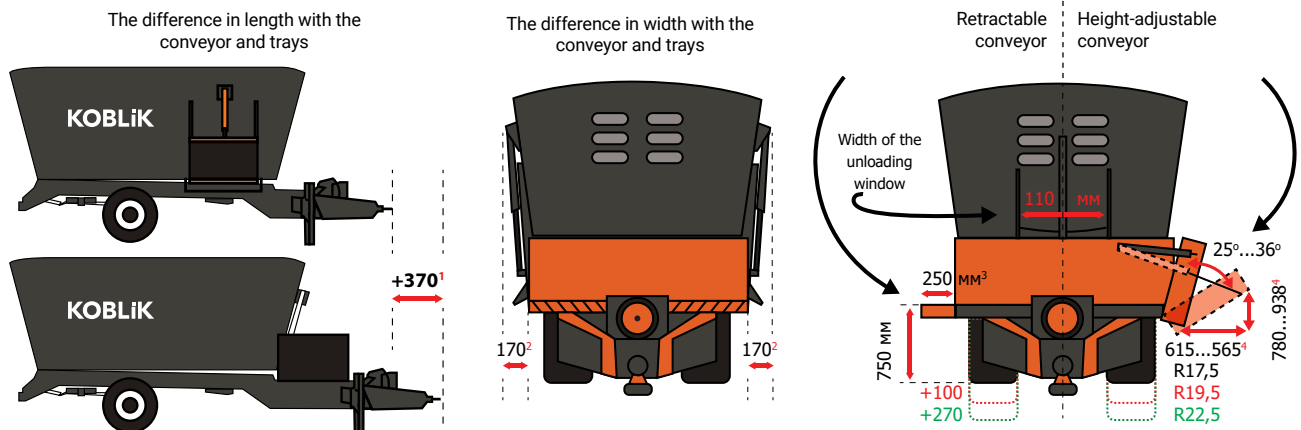
The diameter of the screws, taking into account the protrusion of the knives, is 540 mm with a dividing plate

MV SERIES

FEED MIXERS WITH VERTICAL SCREW ARRANGEMENT

Mixers-distributors are designed for additional grinding, mixing, and distribution of a ration feed mixture Cattle in feeders and on the feed table. A wide range of one-, two- and three screw units with a cubic capacity from 6 to 34 m³ makes it possible to choose the optimal model depending on the livestock and conditions of a particular farm

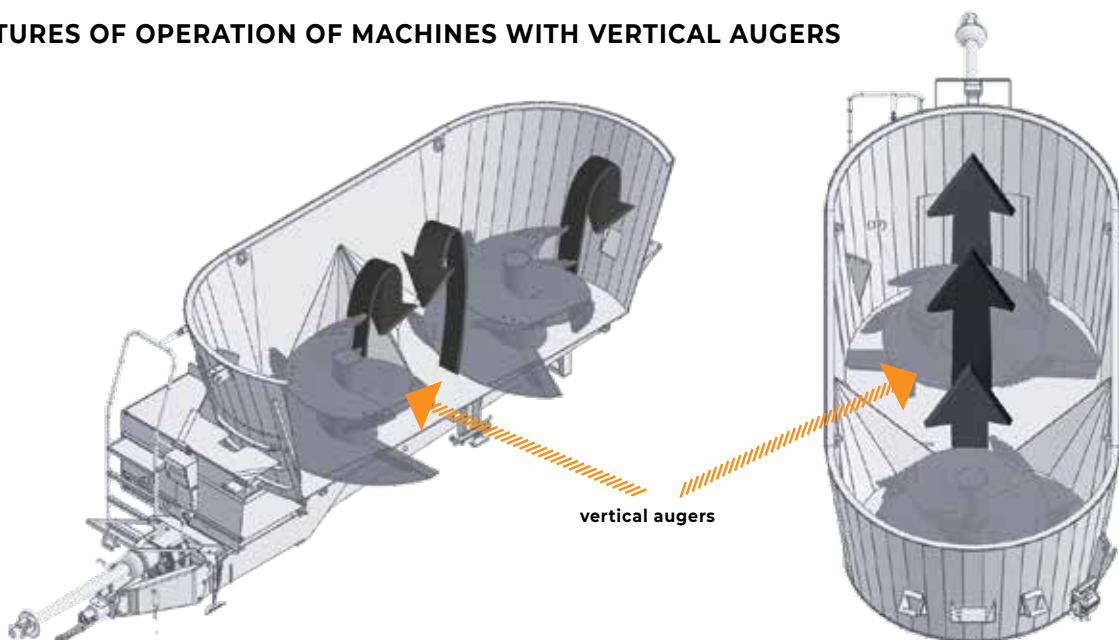
It is possible to install chain or belt conveyors of various types, or an unloading tray/trays. The reversible conveyor can distribute the feed to the right or left side. The addition of a height-adjustable conveyor allows unloading feed into feeders



- ¹ The size by which the feed dispenser increases when installing a reversible conveyor, mm the length of the front
- ² The size by which the width of the feed dispenser is reduced when installing the front reversible conveyor instead of the side trays, mm

- ³ The size by which the width of the feed dispenser increases with the maximum opening of the retractable conveyor, mm
- ⁴ Height and width of the adjustable conveyor at an inclination of 25-36°, mm

FEATURES OF OPERATION OF MACHINES WITH VERTICAL AUGERS



ADVANTAGES

- **INCREASED WEAR RESISTANCE OF AUGERS**
due to the manufacture of a spiral made of hardened steel by hot stamping
- **THE NEW FINNED SHAPE OF THE HOPPER**
increases its strength, improves the mixing process and prevents the feed from hanging
- **FUEL SAVINGS OF UP TO 20%**
by reducing the load on the PTO
- **WIDE-ANGLE DRIVESHAFT**
with safety and overrunning couplings
- **THE HEIGHT-ADJUSTABLE CONVEYOR**
allows for lossless unloading into various height feeders and onto the feed table
- **RETRACTABLE FRONT REVERSIBLE**
The conveyor allows you to increase the range of unloading of the feed mixture in any of the sides
- **REVERSIBLE CONVEYOR MADE OF PVC TAPE**
reduces the noise level when unloading feed
- **THE MAGNETIC CATCHER**
protects the feed from ingress of metal particles and objects
- **WEIGHT SYSTEM ON ALL MODELS OF THE SERIES**

FEATURES



Durable wide-angle driveshaft



Precise four-point weighing system



More stable when moving off-road



The weight indicator of the DG 400 model on all MV series feed dispensers

MV series machines with frame construction

ADVANTAGES

- **THE FOUR-POINT WEIGHING SYSTEM**
ensures control and accuracy of weighing

MV series machines in frameless design

ADVANTAGES

- **SIGNIFICANT REDUCTION OF THE TRACTOR'S PTO LOAD**
thanks to the two-speed gearbox



Convenient conveyor



Reversible conveyor



Reversible low-noise conveyor made of durable PVC tape



Magnetic Metal Object Catcher

Single screw models of the MV series

MV 060 / MV 110

ADVANTAGES

- THE MINIMUM DIMENSIONS**
fit into the dimensions of tractors like MTZ-80 and MTZ-82, due to the use of a turbocharger with 7 knives
- ACCELERATED FEED PREPARATION PROCESS WITHOUT THE HELP OF COUNTERWEIGHTS**

AVAILABLE OPTIONS (ONLY FOR MV 110)

- THE SECOND DISCHARGE TRAY**
- ADDITIONAL HEIGHT-ADJUSTABLE CONVEYOR**



MV 060



MV 110

BASIC TECHNICAL DATA

INDICATOR NAME	VALUE	
	MV 060	MV 110
Type	semi-trailer	
Execution of the power frame	carrier hopper	frame
Type of unloading	*	* / **
Weight, no more .t	2,4	3,8
Load capacity, no more .t	2,0	3,5
Hopper volume, m3	6,0	10,0
Overall dimensions (L/W/H), mm	4 010	4 455* / 5 110**
	2 330	2 340* / 2 230**
	2 440	2 635* / 2 675**
Width along the side surfaces of the wheels, mm	1 690±5	
Maximum side discharge height (maximum barrier height), mm	790	860
Loading height, not less than, mm	2 400	2 800
Ground clearance, not less than, mm	300	350
Transport speed with/without cargo, km/h	8,0 / 12,0	
Working speed at feed distribution, km/h	5	
Required tractor power, kW (hp)	40 (55)	50 (70)
Tires / bushing (basic version)	235 / 75 R17,5	265 / 70 R19,5 215 / 75R 17,5
Tires/bushing (optional version)	-	305 / 70 R19,5
Number/type of augers	1/ from the tractor PTO	

*front-right / rear-left unloading window
** reversible discharge conveyor

FEATURES



Large tires
(235/75R17,5-305/70 R19.5)
(reduced pressure and reduced frame loads)



Pneumatic double-circuit braking system for quick stop



Unloading window for easy delivery



High strength of the hopper due to the finned shape

Twin screw models of the MV series

MV 120 / MV 140 / MV 160 / MV 180 / MV 210

ADVANTAGES

- **FAST GRINDING OF FEED COMPONENTS**
by using 2 turbo augers with 8 knives
- **THE THICKNESS OF THE SIDE OF THE HOPPER HAS BEEN INCREASED** to 8 mm
- **THE SOLID BOTTOM OF THE HOPPER** is 16 mm thick
- **MIXING WITHOUT DEAD ZONES**

AVAILABLE OPTIONS

- **REINFORCED CONSTRUCTION**
- **4 UNIFIED WEIGHT BARS**
with a protective adjustable bolt
- **UNIVERSAL DRAWBAR WITH THE POSSIBILITY OF ADJUSTMENT**
to ensure the horizontal position of the feeder in coupling with the tractor
- **BELT CONVEYOR**
- **SCREW WITH LININGS MADE OF CORROSION-RESISTANT**

BASIC TECHNICAL DATA

INDICATOR NAME	VALUE					
	MV 120	MV 140	MV 140M	MV 160	MV 180	MV 210
Type	semi-trailer					
Execution of the power frame	frame					
Type of unloading	* / **		***	* / **		
Weight, no more ,t	5,54	5,74	8,0	6,0	7,1	7,3
Load capacity, no more ,t	5,5		3,5	5,5	7,0	7,0
Hopper volume, m3	12,0	14,0		16,0	18,0	21,0
Overall dimensions (L/W/H), mm	6 590	6 625	6 480	6 680	7 057	7 100
	2 480	2 480	2 460	2 480	2 930	2 930
	2 540	2 660	2 830	3 540	2 980	3 200
Width along the side surfaces of the wheels, mm	1 875±5			2 075±5	1 990±5	2 240±5
Maximum side discharge height (maximum barrier height), mm	835				960	
Loading height, not less than, mm	2 540	2 660	2 610	2 829	2 980	3 200
Ground clearance, not less than, mm	300	325	325		300	
Transport speed with/without cargo, km/h	8,0 / 12,0					
Working speed at feed distribution, km/h	5					
Required tractor power, kW (hp)	60 (80)			96 (130)		110 (150)
Tires / bushing (basic version)	385 / 55 R19,5			265 / 70 R19,5	295 / 80 R22,5	
Tires/bushing (optional version)	265 / 70 R19,5			385 / 55 R19,5	265 / 70 R19,5	
Number / type of augers	2 / or BOM трактора			2/from the tractor PTO		

* front-right / rear-left unloading window
** reversible discharge conveyor
*** 2 unloading windows



MV 120



MV 140



MV 140M

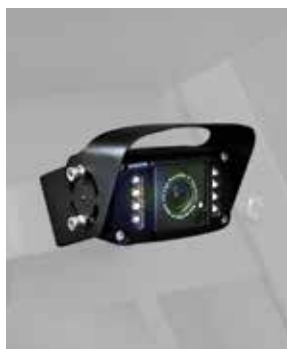
FEATURES



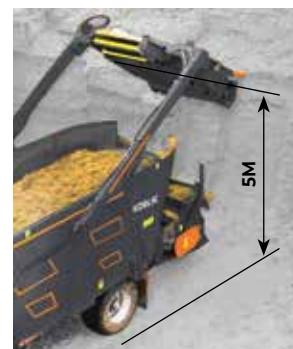
Two vertical cone-shaped augers



Loading milling drum model MV 140 M



Two CCTV cameras for full control



The maximum size of the feeder in height of the raised milling drum

Three-screw models of the MV series

MV 250 / MV 300 / MV 340

ADVANTAGES

- MINIMUM DIMENSIONS**
that fit into the dimensions of tractors like MTZ-1523
- FAST GRINDING OF FEED COMPONENTS**
by using 3 turbo augers with 8 knives
- REDUCING THE COST OF ADDITIONAL FEEDING EQUIPMENT**
due to the large mass of harvested feed in one step (from 11 tons)
- FAST UNLOADING IN THE DIRECTION OF THE SCREW MOVEMENT**
due to the location of the discharge trays on the side of the mixer
- OPTIMAL CONTROL OVER THE PROCESSES OF LOADING, MIXING AND UNLOADING OF THE FEED MIXTURE**
is ensured by the presence of viewing windows
- INCREASED WEAR RESISTANCE**
due to the use of inserts made of corrosion-resistant (stainless) steel to a height of 1 m from the bottom of the hopper and screws with linings made of corrosion-resistant steel (optional)



MV 340



BASIC TECHNICAL DATA

INDICATOR NAME	VALUE		
	MV 250	MV 300	MV 340
Type	semi-trailer		
Execution of the power frame	frame		
Type of unloading	4 unloading windows		
Weight, no more ,t	9,1	9,5	11,0
Load capacity, no more ,t	11,0		13,0
Hopper volume, m3	25,0	30,0	34,0
Overall dimensions (L/W/H), mm	9 060	9 060	10 270
	2 850	2 850	2 545
	2 984	3 350	3 350
Width along the side surfaces of the wheels, mm	2 004 ± 5		2 545 ± 5
Maximum side discharge height (maximum barrier height), mm	993		1 320
Loading height, not less than, mm	3 000	3 400	2 800
Ground clearance, not less than, mm	390		
Transport speed with/without cargo, km/h	8,0 / 12,0		
Working speed at feed distribution, km/h	5		
Required tractor power, kW (hp)	110 (150)		130 (177)
Tires/bushing (basic version)	385 / 55 R22,5	445 / 65 R22,5	
Number/type of augers	3/from the tractor PTO		

FEATURES



Large tires(385 / 55 R22,5 - 445 / 65 R22,5)(low ground pressure and reduced frame loads)



Brakes powered by the tractor's pneumatic system for a quick stop



The gearbox reduces the load on the power take-off shaft



Large volume of the hopper (efficiency of one trip)

MS SERIES

MS 210

MS 140 / MS 160 / MS 180 / MS 210

STATIONARY FEED MIXER

It is intended for use in almost any animal housing (or outside under a canopy), where mobile devices can not be used due to narrow feeding passages. It is also justified in farms where cowsheds and feed storage sites are far from each other.

Additionally, it can be equipped with an automatic control system



ADVANTAGES

- **SIGNIFICANT REDUCTION OF THE LOAD ON THE UNIT DRIVE**
thanks to the two-stage gearbox
- **THE SECOND UNLOADING WINDOW**
is available optionally
- **ROLLING UNLOADING CONVEYOR**
- **GATE CONTROL FROM A REMOTE ELECTRIC REMOTE CONTROL**
- **WEIGHT SYSTEM ON ALL MODELS OF THE SERIES**

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE			
	MS 140	MS 160	MS 180	MS 210
Weight, no more than ,t	5,7	5,9	5,9	7,2
Load capacity, no more than ,t	5,5	5,5	6,4	7,0
Hopper volume, m3	14,0	16,0	18,0	21,0
Overall dimensions (L/W/H), mm	8 150 2 350 2 460	8 200 2 400 2 640	8 250 2 450 2 680	8 300 2 500 2 900
Unloading height (window), mm	810			
Installation power, kW, not less	65		85	85
The material / cross section of the supply cable	is copper / at least 70			
Number/type of augers	2			

FEATURES



The unloading window is placed in agreement with the Customer



Electric drive system with soft start device



Stationary control panel for the unit's systems



2 conical angular gearboxes with a planetary mechanism to reduce mechanical losses

Weight control systems

DG 400

is a simple weighing microcomputer for small farms

- OPERATION IN THE TOTAL WEIGHT MODE/A PORTION
- DEGREE OF PROTECTION IP68 FOR HEAVY DUTY OPERATION

Microcomputer DG 400



PROGRAMMABLE WEIGHING TERMINALS

DG 600

is a programmable weighing microcomputer for medium-sized farms

- WORKING IN THE CLOUD USING DTM ADVANCED
- CONTROL OF COMPONENT DOWNLOADS BY PRESCRIPTION
- CONTROL OF RATION SHIPMENTS TO GROUPS
- ACCOUNTING FOR THE COST OF A DIET PER HEAD

Microcomputer DG 600



DG 8000 IC

programmable weighing microcomputer for large farms

- WORKING WITH THE "PREMIX" FUNCTION
- CONTROL OF THE MIXING TIME OF THE COMPONENTS
- CONTROL OF RESIDUES ON THE FEED TABLE
- COMPATIBILITY WITH SOFTWARE FOR EXPRESS FEED ANALYZERS
- THE ABILITY TO ADJUST THE DIET BASED ON THE ANALYSIS DATA

Microcomputer DG 8000 IC



ADDITIONAL EQUIPMENT

DINA TEL 3

DINA TEL 3

wireless terminal control panel for
installation on a loader



A duplicate display board

for installation in the field of view or on board the mixer,
to display weight readings remotely

A duplicate display board



DINA TEL 3 APP

is a mobile application for wireless management of
downloads/uploads in real time

DINA TEL 3 APP



Модем 3G

for transferring download recipes from a computer to a
weighing terminal and data on uploads from a weighing
terminal to cloud software

3G modem



DTM CORE

software for programming the ration, monitoring the
operator's work, accounting for the warehouse and the
cost of components. The software is operated from a
work computer, then the data is transferred to a weigh-
ing terminal installed on the feed dispenser

DTM Core



Complete sets of weighing systems

WEIGHING TERMINAL MK DG 400 + DUPLICATE DISPLAY

Simple weighing system for small farms



- DG 400
- display for displaying mass readings

WEIGHING TERMINAL MK DG 600 + DINA TEL 3 APP MOBILE APPLICATION

A weighing system with software for solving problems of large and medium-sized farms



- DG 600
- Smartphone app / Dynatel 3 APP
- cloud-based DTM Advanced modem for 3G data transmission

WEIGHING TERMINAL MK DG 600 + MOBILE APPLICATION FARMCHEF

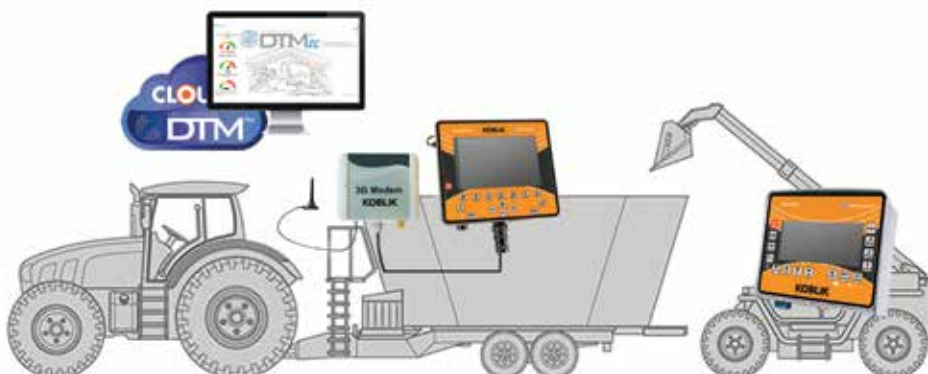
A weighing system with software for solving problems of medium and large farms



- DG 600
- FarmChef mobile app

WEIGHING TERMINAL MK VP 8000 IC + REMOTE CONTROL FOR DINA TEL 3 LOADER

Weighing system for operation in farms with a large amount of work



- DG 8000 IC
- Dina tel 3 control panel
- cloud software DTM IC
- modem for data transmission

RS SERIES

RS 150 / RS 150S / RS 250 / RS 250S

STRAW BLOWER DISTRIBUTOR

It is intended for the organization of deep bedding of cattle, distributes monofeed to the feed table or feeders, conducts preliminary grinding of long-fiber feeds to prepare a full-fledged feed mixture in vertical mixers.

RS 150



ADVANTAGES

RS 250

- **ACCELERATED SHREDDING OF STRAW**
 compared to other types of distributors due to two drums: milling and abundant
- **ADJUSTMENT OF THE EJECTION RANGE**
 by means of a remotely controlled hydraulic damper
- **ADJUSTMENT OF GRINDING TO A FRACTION OF 60-150 MM**
 by means of counterweights
- **EASE OF UNLOADING**
 is provided by a large angle of rotation of the discharge chute (up to 280°)



BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE	
	RS 150 / RS 150S	RS 250 / RS 250S
Load capacity, no more than ,t	1,6	2,5
Weight, t	2,5	4,0
Volume, m ³	2,5	8,0
Overall dimensions (L/W/H), mm	4 370	6 330
	2 300	2 300
	2 730	2 870
The maximum height of unloading on the feed table or into the feeder, mm	1 100	1 250
Tires	215 / 75 R17,5	265 / 70 R19,5
The size of the bedding material fraction, mm	120-150 / 60-180	120-150 / 60-180
Number of grinding drums, pcs.	1	2 / 1
Number of knives on the drum (straight / curved), pcs	48 / 18	72 / 24
The number of additional places for knives, pcs.	54	84
Humidity of the crushed material, %	20	
Required tractor power, kW (hp) / Tractor traction class	60 (80) / 1,4*	

* for all models except RS 250, for the RS 250 model, the parameters are 95 (130) / 2.0

FEATURES



The grinding milling drum is equipped with a bar with knives



Blow chute for control of the output vector



Hydraulic folding tailboard



Two-speed gearbox for flow control

RR SERIES

RR 150

RR 150

ROLL CUTTER

It is designed for crushing rolls of hay, haylage and straw with the supply of crushed mass to the burt, to the feed table or to the litter. The crushed mass is used for feeding, loading into a mixer-distributor or as a bedding material

After loading the roll into the hopper, it is crushed with the knives of the milling drum, followed by the release of the material to the right side. The ejection range is regulated by a remotely controlled hydraulic flap (fraction size 60 - 150 mm)

ADVANTAGES

- **CRUSHING OF ROLLS OF HIGH DEGREE OF HUMIDITY**
- **CONVENIENT SELF-LOADING**
due to the lateral position of the grip
- **FULLY CONTROLLED OPERATION PROCESS**
from the bunker side
- **ALLOWS YOU TO GET A LOOSE FEED MIXTURE**



BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE
	RR 150
Load capacity, no more than ,t	1,0
Weight, t	2,8
Volume, m ³	2,5
Overall dimensions (L/W/H), mm	4 750
	2 515
	2 365
The maximum height of unloading on the feed table or into the feeder, mm	800
Tires	265 / 70 R19,5
The size of the bedding material fraction, mm	60-150
Количество измельчающих барабанов, шт.	1
Number of grinding drums, pcs.	48 / 18
Number of knives on the drum (straight / curved), pcs.	-
Humidity of the crushed material, %	50
Required tractor power, kW (hp) / Tractor traction class	55 (75) / 1,4

FEATURES



The grinding milling drum is equipped with a bar with knives



Milling and saw drums for high-quality grinding



Self-loading of bales using a hydraulic folding tailboard



Two-speed gearbox for flow control by output or fork gripper

SF SERIES

SF 114

ORGANIC FERTILIZER SPREADERS

Basic models of the SF series

SF 110 / SF 114

The only monoaxial organic fertilizer spreaders produced in the CIS with a load capacity of up to 14 tons

Designed for surface application of solid organic fertilizers (peat, manure, compost) to the soil, as well as solid bulk materials (calx, chalk, dolomite flour)



ADVANTAGES

- THE SINGLE-TRACK CONVEYOR IS MADE OF HIGH-STRENGTH CHAIN**
- INCREASED RELIABILITY** due to the autonomous circuit of the hydraulic system
- HYDRAULIC VALVE FOR ADJUSTING THE SPEED OF THE CONVEYOR**
- EXTENDED SERVICE LIFE** due to the manufacture of the bottom of the spreader from high-quality steel

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE	
	SF 110	SF 114
Load capacity, t / Hopper capacity, m ³	10 / 10	14 / 14
Weight, t	6	6,8
Overall dimensions (L/W/H), mm	7 410 2 700 3 425	8 510 2 810 3 420
Ground clearance, mm	370	
Tires	600 / 50 R30	650 / 75 R32
Track width, mm	2 100 ± 5	2 165 ± 5
The number of axles, of which are self-steering	1 / -	
The speed of the tractor's PTO when applied, rpm	1 000	
Tractor traction class / Power kW, not less (hp)	2/95 (130)	3/110 (150)

FEATURES



Mechanical chain tensioner of the unloading conveyor to protect against sagging and jerks



Large size tires (650 / 75 R32)



Sprung drawbar for shockless maneuvering



2 large diameter vertical beaters are equipped with knives and blades

Multifunctional spreader of the SF series

SF 218

SF 218

Designed for surface application of solid organic fertilizers (peat, manure, compost) to the soil, as well as solid bulk materials (lime, chalk, dolomite flour) with a load capacity of up to 18 tons



ADVANTAGES

- THE TWO-TRACK CONVEYOR IS MADE OF HIGH-STRENGTH CHAIN**
- EXTENDED SERVICE LIFE**
by manufacturing the bottom of the spreader from high-quality steel
- EFFICIENT DISTRIBUTION OF FERTILIZERS OVER A FIELD**
with a spreading width of up to 12 meters
- THE ABILITY TO REMOVE OBJECTS FROM THE BOTTOM SIDE, IF NECESSARY**
is provided by the open design of the lower part of the conveyor
- INCREASED STABILITY DURING MOVEMENT**
due to the use of reinforced axles with a hinge up to 9° degrees

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE
	SF 218
Load capacity, t / Hopper capacity, m ³	18 / 14
Weight, t	9,3
Overall dimensions (L/W/H), mm	9 610 2 600 3 590
Ground clearance, mm	370
Tires	550 / 60 R22.5
Track width, mm	2 010±50
The number of axles, of which are self-steering	2 / 1
The speed of the tractor's PTO when applied, rpm	1 000
Tractor traction class / Power kW, not less (hp)	4 / 146 (200)

FEATURES



Mechanical chain tensioner of the unloading conveyor to eliminate jerks and sagging
Дополнительная регулировка



Additional adjustment of the conveyor speed for fine-tuning the stroke



Hydraulic locking device of controlled axles for high cross-country performance



Two large diameter vertical beaters to reduce wear with good grinding

Multifunctional organic fertilizer spreaders SF series

SF 320 / SF 324 / SF 325

They are designed for surface application of solid organic fertilizers (peat, manure, compost) to the soil, as well as solid bulk materials (lime, chalk, dolomite flour) in large volumes

ADVANTAGES

- THE TWO-TRACK CONVEYOR IS MADE OF HIGH-STRENGTH CHAIN**
- EXTENDED SERVICE LIFE**
 due to the manufacture of the bottom of the spreader made of high-quality steel
- THE ABILITY TO REMOVE OBJECTS FROM THE BOTTOM SIDE, IF NECESSARY**
 is provided by the open design of the lower part of the conveyor
- INCREASED STABILITY DURING**
 movement due to the use of reinforced axles with a hinge up to 9° degrees

SF 325



SF 320



BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE		
	SF 320	SF 324	SF 325
Load capacity, t / Hopper capacity, m ³	20 / 20	24 / 28	25 / 22
Weight, t	10,0	10,1	10,6
Overall dimensions (L/W/H), mm	9 260	9 260	10 200
	2 600	2 600	2 600
	3 650	3 750	3 700
Ground clearance, mm	480		
Tires	550 / 60 R22,5 (600 / 50 R22,5) *		
Track width, mm	1 920 ± 50		1 950 ± 50
The number of axles, of which are self-steering	3 / 2		
The speed of the tractor's PTO when applied, rpm	1 000		
Tractor traction class / Power kW, not less (hp)	5 / 210 (300)	5 / 210 (300)	5 / 210 (300)

* Optionally

FEATURES



Hydraulic chain tensioner of the unloading conveyor for autonomous regulation



Dual drive of the unloading conveyor for smooth feeding without congestion



Hydraulic locking device of controlled axles for increased cross-country capability



Balancing suspension of axles with parabolic springs

NPK 800

NPK 800

MINERAL FERTILIZER SPREADER

It is intended for surface application of solid mineral fertilizers in two types: granular and crystalline, as well as lime and dolomite flour. The width of the application is 24-36 m. The spreader hopper (with a volume of 8 m³) is completely made of stainless steel.

ADVANTAGES

- **A BELT CONVEYOR MADE OF RUBBER CLOTH**
allows you to maintain the structure of both powdered and granular fertilizers
- **THE STAINLESS STEEL METERING VALVE**
for setting the application rate has a clear scale, which is conveniently located in the field of view of the machine operator
- **FOLDING AWNING**
protects the spreader hopper from dampness and precipitation (2 versions - opening in any direction - both to the right and to the left)
- **THE HYDRAULIC SYSTEM**
allows you to open and close the hopper lid from the tractor cab
- **THE 8 M³ STAINLESS STEEL HOPPER**
allows you to extend the service life of the spreader even with the most aggressive types of fertilizers



- **THE LARGE VOLUME OF THE HOPPER**
increases the productivity of fertilization and saves fuel by reducing the time of transportation of fertilizers from storage sites to the field
- **THE GRATE INSIDE THE HOPPER**
breaks up lumps of fertilizers and prevents foreign bodies from entering the conveyor belt
- **THE CONVEYOR DRIVE FROM THE SPREADER WHEEL / TRACTOR PTO (OPTIONAL)**
allows you to unload fertilizers on site and can be used to apply lime and dolomite flour
- **AGRONAVIGATOR FOR PARALLEL TRACTOR DRIVING** to control the field coverage with applied fertilizer
- **A SPECIAL PLATFORM FOR THE MACHINE OPERATOR**
for the convenience of loading fertilizers in big bags (optional)

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE
	NPK 800
Load capacity, not more than, t / Volume, m ³	9,8 / 8,0
Weight, t	4,0
Overall dimensions (L/W/H), mm	6 600
	2 610
	3 200 * / 4 750 *** / 3 300 ****
Ground clearance, not less, mm	350 ***** / 590 *****
Tire dimension	570/75 R 26 *
	700/50 R 26.5 **
The drive of the working body	from the tractor PTO
The brake drive	pneumatic
The drive of the plates	hydraulic * / mechanical **
Type of coupling	upper * / lower **
Vehicle speed / operating speed, km/h, no more	25 / 10-12
The speed of the tractor's PTO when applied, rpm	540
Required PTO power, kW (hp)	60/(82)
Working width of application, m	24 - 36

* basic design
** option
*** with the lid raised, mm
**** loading (on the sides), mm

***** upper coupling
***** lower coupling

FEATURES



Hydraulic cylinders for conveyor drive control



Spreading plates (distribution width)



Stainless steel hopper 8 m³



Stainless steel grate inside the hopper (protecting the product from litter and ensuring uniformity of filling)

SERIES TS

TS 212

SEMI-TRAILERS DUMP BUCKET

Basic models of the TS series

TS 212 / TS 215 / TS 218

They are designed for transportation and unloading of various agricultural and construction goods. They are effective in transportation, mechanized unloading of silage, grain, sawdust, manure, compost, as well as "heavy" loads – root crops, sand, gravel or snow; trailers of this type generate income all year round



ADVANTAGES

- **REDUCED DYNAMIC LOADS ON THE TRAILER AND TRACTOR**
 due to the use of suspension on parabolic springs
- **QUICK AND CONVENIENT COUPLING WITH THE TRACTOR**
 through the use of a locking check valve on the hydraulic support of the drawbar
- **TIGHTNESS DURING CLOSING**
 is ensured by means of a seal and an automatic locking of the rear side

- **THE SPECIAL SHAPE OF THE BODY**
 ensures unloading without residue
- **INCREASED RELIABILITY**
 due to the autonomous circuit of the hydraulic system (optional)
- **THE INCREASED RIGIDITY OF THE STRUCTURE**
 is set by additional reinforcing longitudinal ribs of the body
- **THE POSSIBILITY OF TRANSPORTING VARIOUS CARGOES**
 is provided by retrofitting with a grain loader auger and a root crop drop suppressor

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE		
	TS 212	TS 215	TS 218
Load capacity, no more, t Weight, t	12	15	18
Macca, t	5,7	6,2	6,6
Overall dimensions (L/W/H), mm	7700 2550 2620/2800* / 3070**	7 850 2 550 2 990 / 3 040 * / 3 350 **	8 450 2 550 2 930 / 3 265 * / 3 575 **
Ground clearance, mm	300		
Transport speed with / without load, km/h	15,0 / 25,0		
Number of axles / of them self-steering	2 / 1 (optional)		
Aggregation	lower hitch		upper / lower hitch
Tractor traction class / Power kW, not less than (hp)	2 / 81 (110)	2 / 96 (130)	3 / 96 (130)

* / ** with a set of extension boards

FEATURES



Single- and double-circuit pneumatic or hydraulic braking system



Hydraulic tailgate with seal and auto lock



Tandem suspension to reduce swinging and oscillation



Hydraulic drawbar support for convenient parking

Semi-trailer dump bucket upgraded TS series

TS 325

TS 325

It is designed for transportation and unloading of various agricultural and construction goods. The trailer is equipped with a trapezoidal body to facilitate unloading

It is effective in transporting and mechanized unloading of silage, grain, sawdust, manure, compost, as well as "heavy" loads – root crops, sand, crushed stone or snow



ADVANTAGES

- **REDUCED DYNAMIC LOADS ON THE TRAILER AND TRACTOR** due to the use of suspension on parabolic springs
- **QUICK AND CONVENIENT COUPLING WITH THE TRACTOR** through the use of a locking check valve on the hydraulic support of the drawbar
- **TIGHTNESS DURING CLOSING** is ensured by means of a seal and an automatic locking of the rear side
- **INCREASED RELIABILITY** due to the autonomous circuit of the hydraulic system
- **THE INCREASED RIGIDITY OF THE STRUCTURE** is set by additional reinforcing longitudinal ribs of the body
- **VERSATILITY AND ALL-SEASON**
- **DRAWBAR DAMPING SYSTEM**
- **DUAL-CIRCUIT BRAKING SYSTEM**

BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE
	TS 325
Load capacity, no more, t	25
Weight, t	8,3
Overall dimensions (L/W/H), mm	9 950
	2 550
	2980 / 3 480 * / 3 980 **
Ground clearance, mm	400
Transport speed with / without load, km/h	15,0 / 25,0
Number of axles / of them self-steering	3/2
Aggregation	lower hitch
Tractor traction class / Power kW, not less than (hp)	5 / 221 (300)

* with a set of extension boards

FEATURES



Steering rear and front axles with hydraulic lockinhg



Hydraulic tailgate with automatic locking and an unloading window in the rear side for installing a screw loader



Stabilization of the body during unloading



Hydraulic locking of steering axles for high cross-country ability

TM SERIES

TM 230 / TM 340

TM 340

UNIVERSAL SEMI-TRAILERS WITH A PUSHING WALL

They are designed for transportation and mechanized unloading of various agricultural goods: green mass, silage, haylage, hay, grain, sawdust, manure, compost, as well as "heavy" loads – root crops, snow, etc.

Horizontal unloading is carried out by pushing the wall through the rear open side, without lifting the body

ADVANTAGES

- **LARGE HOPPER VOLUME**
 compared to other types of semi-trailers for transportation
- **THE VERSATILE DESIGN (LOW PROFILE SQUAT SHAPE)**
 is suitable for transporting various cargoes and unloading in low buildings (grain warehouses)
- **VERSATILITY**
 it is possible to install a spreader
- **OPTION TO CONTROL THE TRANSPORTED GOODS**
 using a weighing system

TM 230



BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE	
	TM 230	TM 340
Load capacity, not more than, t	20,0	30,0
Volume, m ³	31,0	39,0
with a set of solid superstructure boards (h=250 mm)	34,7	39,9
with a set of mesh superstructure boards (h=450 mm)	38,0	43,6
Overall dimensions (L/W/H), mm	8 770	9 800
	2 550	2 550
	3 510	3 540
Ground clearance, not less than, mm	350	
Number of axles / of them self-steering	2/1 *	3 / 2
Transport speed with cargo / without load, km/h, no more	15,0 / 25,0	
PTO power required, kW (hp)	132,39 -161,81 (180-220)	161,81 - 220,65 (220-300)

* option

FEATURES



Tridem suspension with one or two pivoting/self-steering axles



Single-circuit pneumatic braking system



Semi-transparent front wall for full load control



Front wall speed control system

TL SERIES

TL 230

TL 230 / TL 340

RELOADING HOPPERS

They are designed for transportation and mechanized unloading of various agricultural goods: green mass, silage, haylage, hay, grain, sawdust, manure, compost, as well as "heavy" loads – root crops, snow, etc.

Horizontal unloading is carried out by pushing the wall through the rear open side, without lifting the body

ADVANTAGES

- **INCREASES GRAIN HARVESTING PRODUCTIVITY BY 30%**
- **VERSATILITY**
the ability to be used in various operations (harvesting, sowing, fertilization, grain transshipment to the current, shipment to the current)
- **LESS DOWNTIME**
due to delays in logistics
- **MINIMAL INJURY TO THE SOIL**
specialized wheels are used
- **THE OPTION OF CROP CONTROL**
in the field using a weighing system
- **REDUCTION OF THE FLEET OF TRUCKS INVOLVED**



TL 340



BASIC TECHNICAL DATA

THE NAME OF THE INDICATOR	VALUE	
	TL 230	TL 340
Own weight, t	8,8	11,6
Load capacity, no more than that, t	21	31
Volume, m ³	30,0	40,0
Overall dimensions (L/W/H), mm	8 680	10 680
	3 100	3 100
	3 870	3 870
Screw diameter (on unloading), mm	500	
Ground clearance, not less than, mm	400	
Track width, mm	2 300±5	
Number of axles / of them self-steering	2/1 *	3 / 2
Transport speed with cargo / without load, km/h, no more	15,0 / 25,0	15,0 / 25,0
PTO power required, kW (hp)	132-4 - 161-8 (180-220)	161-8 - 220,6 (1220-300)

*optionally

FEATURES



Body of optimized shape made of high-strength steel with a thickness of 4 mm



Suspension on strong parabolic springs



Independent pneumatic braking system



Steering rear and front axles with hydraulic locking



Official customer service

- THE WIDEST DEALER NETWORK - 70 DEALERS FROM KALININGRAD TO THE FAR EAST
- MORE THAN 100 DESIGN ENGINEERS ON STAFF
- PROMPT RESPONSE BY MOBILE SERVICE TEAMS, WITHIN 24 HOURS FROM THE MOMENT OF APPLICATION



SERVICES

- WARRANTY AND POST-WARRANTY SERVICE, EQUIPMENT REPAIR
- INSPECTION OF FACILITIES AND TRAINING ON MODERNIZATION AND PRODUCTIVITY IMPROVEMENT
- COMPLETE TRAINING ON THE OPERATION OF EQUIPMENT IN A SINGLE TRAINING CENTER



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

- TO REPLACE WORN-OUT COMPONENTS, EVEN 10 YEARS AFTER THE START OF OPERATION OF THE EQUIPMENT



ORIGINAL SPARE PARTS



WARRANTY / POST-WARRANTY SUPPORT

We provide warranty obligations for a period of 12 months. During this period, the client receives comprehensive support from the official service department of the company for the maintenance and repair of grain cleaning machines, conveyors, grain dryers, silos and other equipment.

In addition, we provide an extended warranty for spare parts of our own production and undertake the provision of spare parts for equipment that has left the series, and the selection of analog spare parts.

Qualified specialists in the shortest possible time:

- answer your questions
- prepare recommendations on how to overcome the difficulties that have arisen
- they will promptly select the necessary composition of spare parts and consumables
- will carry out operational repairs

- TO RECEIVE SCHEDULED MAINTENANCE AND PROFESSIONAL REPAIR SERVICES WITH A GUARANTEE OF FULL RESTORATION OF OPERABILITY
- TO PURCHASE THE ENTIRE RANGE OF HIGH-QUALITY ORIGINAL COMPONENTS



YOU CAN SEND ALL QUESTIONS BY E-MAIL
SERVICE@KOBLIK.RU



KOBLIK.RU

394056, Россия, г. Воронеж, ул. Солдатское поле, д. 285/5
Тел. +7 (473) 206-77-77 info@koblik.ru

Дилерский центр в Вашем городе

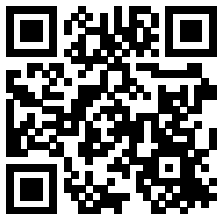
KOBLIK



CIRCULAR SPRINKLER IRRIGATION SYSTEMS

 CATALOG

KOBLIK GROUP





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BRIEFLY ABOUT THE SYSTEMS



Circular sprinkler irrigation system KOBlik. Arzamasskiy District, village Semenov. Crop yield growth - 70%, payback of the plant - in the first season used.

We carry out the technology development by taking into account the main criterion - a significant increase in the efficiency of individual operations in particular and the entire agribusiness of our clients as a whole. All machines from KOBlik make it possible to significantly increase the productivity of commodity production with their correct and rational use.

KOBlik irrigation systems are one of the best ways to increase yields for most crops, even when water resources are scarce.

ADVANTAGES OF USAGE



NON-STOP IRRIGATION

the standard of loading of each machine is at least 85% of the available working time, taking into account the calendar specifics of the agribusiness at the place of application, the reserve time for scheduled maintenance is no more than 8%



CUSTOMER SERVICE

warranty, service support and post-warranty services from the developer and manufacturer, based on a trade and service partner network with continuous training, certification and certification of technical personnel



STABLE QUALITY

continuous operation of the testing system, wholesale surveys and industrial testing of developments along with routine quality control for incoming shipments of manufactured products



DURABILITY AND RELIABILITY

a comprehensive selection system for suppliers of materials, parts and components according to the PPAP standard, without compromise in requirements - only top-end raw materials and proven components



DESIGN AND EXPERIENCE

design and engineering school in the production of agricultural machinery - more than a century of continuous experience in mechanical engineering



INCREASED PRODUCTIVITY

continuous improvement of manufactured models without termination of support from the manufacturer as a key rule of operation of all enterprises within the group of companies



CIRCULAR SPRINKLER INSTALLATIONS

INCREASED DURABILITY AND MAXIMUM SERVICE LIFE

ADVANTAGES

- **BETTER LOAD DISTRIBUTION AND INCREASED STABILITY EVEN IN EXTREME CONDITIONS**
due to the use of a transverse stabilizer between the spangles and compression pipes
- **MINIMUM LOAD ON THE PIPE**
due to supports welded using annular seams
- **THE LOWEST LOAD ON THE ENTIRE STRUCTURE**
by the optimized parabolic shape
- **QUICK AND EASY ASSEMBLY**
is ensured by the symmetry of the intermediate pipe sections
- **FULL COMPENSATION OF UNEVENNESS IN THE FIRST SPAN**
using
FLEXIBLE BEARING ELEMENT TECHNOLOGY
- **REDUCING THE IMPACT OF FORCES WITH SIGNIFICANT SLOPE AND TORSION**
due to forged steel ball joints





Круговая дождевальная установка KOBlik
Киреевский р-н, с. Бородинское

■ **PROTECTION AGAINST LEAKS DURING ROTATION**

by using three edge gaskets on a vertical pressure pipe (diameter 203 mm)

■ **OPTIMAL WEIGHT DISTRIBUTION OVER THE SPANS**

by using V-shaped corners

■ **THE MOST DURABLE CONSTRUCTION ON THE MARKET**

a 50 x 50 x 5 mm profile at the L-corners is used

■ **PREVENTION OF POSSIBLE CORROSION PROBLEMS**

due to the welds located at the top of the pipes

■ **MINIMAL RISK OF DEFORMATION SPANS**

through the use of high-strength steel spangles with hot-forged heads on both sides (diameter: 19.05 mm and 20.6 mm)

■ **INCREASED RELIABILITY OF THE MOST EXPENSIVE INSTALLATION ELEMENTS**

due to four diagonal rods connecting the pipe between the span and the tower using a high-strength pipe (diameter 63.5 mm)

■ **PRECISE ROTATION OF THE SYSTEM WITHOUT DEVIATIONS**

a one-piece swivel elbow (203 mm) made of galvanized steel is used

■ **MAXIMUM RESISTANCE TO WIND LOADS**

the support pillars of the tower are made of four V-shaped corners are the size of 75 x 75 x 8 mm

ELEMENTS OF CIRCULAR SPRINKLERS INSTALLATIONS



The design of **KOBLIK** circular sprinkler systems is developed to withstand the load that occurs when watering various crops.

The sprinkler system must remain as it was on the day of purchase. All structural elements, including pipes, are made of hot-dip galvanized steel, and the galvanizing process is carried out in full accordance with **GOST**(Russian All-Union State Standard) and technical specifications.



01. ROTARY ASSEMBLY

The base of the rotary assembly of the KOBlik circular irrigation system consists of four galvanized steel support posts made of a curved profile with a section of 102 x 102 mm with a wall thickness of 4 mm, reinforced with a strip with three rods on each side, also covered with a 5 mm layer of galvanized steel for reinforcement

STANDARD COMPONENT KIT

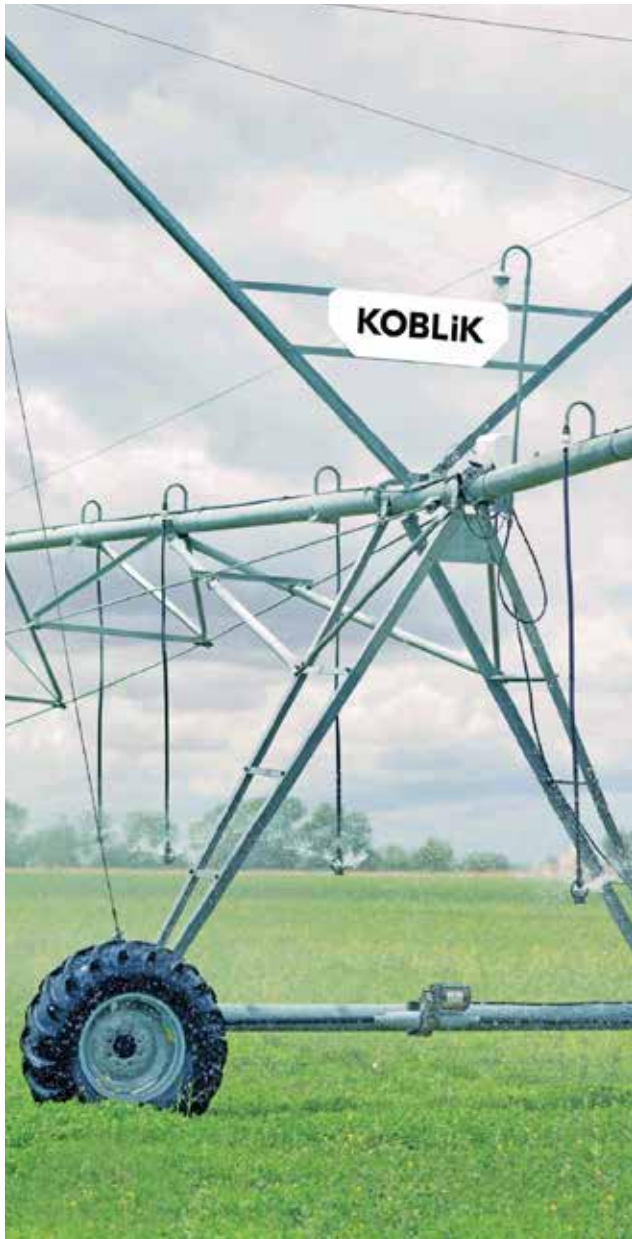
Anchor bolts and hinge supports reinforcing support posts and strip, ladder, swivel elbow, pressure pipe and lower elbow

AVAILABLE TURNING POINTS

- ROTARY ASSEMBLY FOR 127 MM SPANS
- STANDARD SWIVEL ASSEMBLY FOR SPANS OF 168 MM AND 219 MM PIPES
- MOBILE 4-WHEELED TROLLEY

FEATURES

- THE VERTICAL PRESSURE PIPE (203 MM) IS EQUIPPED WITH A THREE-EDGE GASKET, PREVENTING LEAKAGE DURING ROTATION
- THE SUPPORT OF THE SWIVEL ELBOW IS MADE OF STEEL PIPE WITH A 10 MM THICK WALL WITH PROVIDED LUBRICATION POINTS
- THE WATER INLET ON THE SWIVEL KNEE IS MADE OF STAINLESS STEEL
- THE SWIVEL ELBOW IS MADE OF A SINGLE 203MM GALVANIZED STEEL TAP
- THE TECHNOLOGY OF THE FLEXIBLE BEARING ELEMENT COMPENSATES FOR THE IRREGULARITIES OF THE TERRAIN ALONG WHICH THE FIRST SPAN MOVES
- VARIOUS PROFILES ARE PROVIDED FOR ANY TYPE OF CROPS: POTATOES, VARIOUS VEGETABLES, CORN, ETC.



02. SPANS AND CONSOLES

KOBLÍK circular irrigation systems have different span lengths, which allows you to adapt the length of the machine to the size of the field. The distance between the sprinklers is called the placement step. Typically if you do not take into account the arrangement of sprinklers directly on the field, the shorter the distance between the sprinklers, the better the uniformity of water distribution

Please note: The most significant influence on the uniformity of water distribution is directly exerted by the arrangement of sprinklers in the cultivated area. It is possible to achieve the greatest coverage with maximum absorbency, without the risk of water accumulation on the surface by installing the machines with an extended interval and taking into account the area covered by the nozzles on site (has the most positive effect when working with vegetable crops)

AVAILABLE PLACEMENT*

■ 2.9 M, STANDARD ■ 1.9 M ■ 0.96 M

* standard thickness is 2.8 mm
A 3 mm thickness is available as an option.

FEATURES

- CANTILEVER TRUSS OF PARABOLIC SHAPE TO MINIMIZE THE LOAD ON THE STRUCTURE
- FASTENING BY MEANS OF A BALL JOINT (FORGED STEEL)
 - ▶ provides compensation for significant slope and torsion
 - ▶ when one span falls, the next one does not fall
 - ▶ easy connection replacement
- THE MOST DURABLE CONSTRUCTION ON THE MARKET WITH V-SHAPED CORNERS FOR OPTIMAL WEIGHT DISTRIBUTION
- L-CORNERS MADE OF 50X50X5 MM PROFILE
- THE SUPPORTS ARE WELDED TO THE PIPE USING ANNULAR SEAMS THAT MINIMIZE THE LOAD ON THE PIPE
- HIGH-STRENGTH STEEL SPANGLES WITH HOT-FORGED HEADS ON BOTH SIDES
- INTERMEDIATE PIPES OF IDENTICAL SYMMETRICAL SECTIONS FOR QUICK ASSEMBLY
- TRAPEZOIDAL REINFORCEMENT PLATES FOR INCREASED STABILITY

GENERAL TECHNICAL DATA

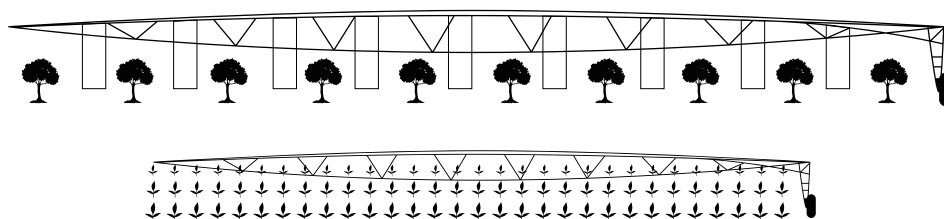
SPANS	
DIAMETER	LENGTH
mm	m
219,1	43,4
219,1	49,1
168,3	43,4
168,3	49,1
168,3	54,9
168,3	60,6
127	43,4
127	49,1
127	54,9
127	60,6

GENERAL TECHNICAL DATA

SPANS	
Sectional elevation	Height, m
Low	1,9
Standard	2,9
High	3,9
For cane sugar	4,1
Extra-high	4,9

CONSOLES	Length, m	2,7	5,5	8,2	11	16,5	19,2	25
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THE COVERAGE SCHEME OF THE CIRCULAR IRRIGATION SYSTEM



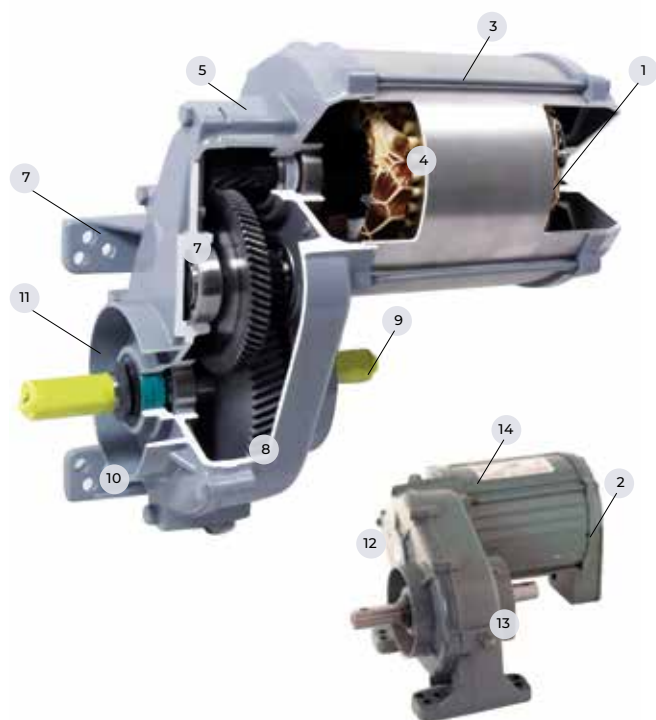
03. TOWER

The tower is designed in a such way to withstand the load created on the slopes

FEATURES

- THE SUPPORT PILLARS OF THE TOWER ARE MADE OF FOUR V-SHAPED CORNERS 75 X 75 X 8 MM
- THE SUPPORT STRUTS ARE CONNECTED BY THREE HORIZONTAL SPANGLES TO MAINTAIN BALANCE IN DIFFICULT TERRAIN
- FOUR BEAM TRUSSING RODS CONNECT THE PIPE BETWEEN THE SPAN AND THE TOWER
- A TRAPEZOIDAL REINFORCING PLATE IS INSTALLED AT THE L-CORNERS OF THE TOWER
- A TRANSVERSE STABILIZER IS INSTALLED BETWEEN THE SPANGLES AND THE COMPRESSION PIPES

GENERAL ARRANGEMENT



* Horizontal aluminum motors

04. ДВИГАТЕЛИ

Powerful engines with proven reliability. With an efficiency of 95%, small generators and cables of smaller cross-section can be used

- 1 Stamped aluminum housing
- 2 Thermal overload protection
- 3 Stator with aluminum blades prevents corrosion and also cooling the motor, extending its service life
- 4 One-piece rotor with hardened bevel gears
- 5 Larger rotor bearings
- 6 Primed internal surfaces, protected from corrosion
- 7 Hardened bevel gears for longer service life and quieter operation
- 8 High-pressure gear oil for maximum protection of parts
- 9 Double inlet pipe designed for high temperatures
- 10 Double exhaust pipe, providing increased protection
- 11 External nozzle for protection from dirt and chemicals
- 12 Upper tank with level indicator to ensure proper control of oil filling
- 13 Easy access to the drain plug for easy maintenance
- 14 Standard speed: **44 rpm at 0.75 hp**
Other speed parameters: 34 rpm (0.5 hp); 68 rpm (1.5 hp); 73 rpm (1.2 hp)

KINEMATICS



05. GEARBOXES

Gearboxes made of high-strength steel are designed to work in all conditions

- 1 A full-cycle membrane that minimizes pressure build-up and increases the service life of the joint; reducing the accumulation of excess moisture
- 2 Protective inlet pipe, providing protection from dust, water and chemicals
- 3 Two interchangeable left or right wheel drive shafts for easy installation and replacement
- 4 Stainless steel expansion chamber for oxidation protection, preventing breakage during transportation
- 5 High-strength forged steel worm gear
- 6 Large drain plug for easier maintenance, inspection and refilling
- 7 Internal connections are protected from water, dust and chemicals
- 8 Gearbox with 52:1 long axis (made of steel), compatible with other installations
- 9 Gearbox with 50:1 short axis is available
- 10 Option for towed vehicles



06. UNIVERSAL CONNECTION

FEATURES

- MADE OF HIGH-STRENGTH STEEL
- WITH HIGH-STRENGTH POLYURETHANE STAR-SHAPED SEAL
- FOR USE IN HARSH OPERATING CONDITIONS
- FOR USE IN HARSH OPERATING CONDITIONS



07. DRIVE SHAFT

The drive shaft with a square profile made of high-strength steel. It is completely covered with a plastic casing for protective safety, as well as for protection from dust and moisture



стандартное колесо (378 x 610 мм),
для высокой проходимости
опционально доступны другие размеры

08. WHEELS

Hot-dip galvanized steel discs (diameter 254 and 305 mm) and all-terrain tires for heavy field work are used

FEATURES

- HIGH PROFILE GROUND HOOKS (40 MM) FOR EXTRA GRIP EVEN ON MUDDY GROUND
- A LARGE NUMBER (40 PCS) OF GROUND HOOKS
- AN OPEN AREA IN THE CENTER OF THE TREAD TO FACILITATE SELF-CLEANING
- LARGE TREAD (UNIFORM WEAR)

09. CONTROL PANELS



The control panels are developed based on our long-term experience in mechanical engineering in agriculture, practical knowledge of the needs and problems of customers, taking into account the best international practices for managing similar installations. It has a full set of functions that ensure the convenience of work. Each panel - whether it is the most accessible and simple analog circuit, or an advanced and sophisticated computerized digital one - provides manual or automatic control of circular or sector irrigation installations and is easily integrated into automation systems

FEATURES

- MOUNTED IN STAINLESS STEEL HOUSINGS FOR MAXIMUM PROTECTION
- THE MAIN SWITCH "ON/OFF"
- THE PERCENTAGE TIMER DETERMINES THE AMOUNT OF WATER SUPPLIED PER REVOLUTION
- MANUAL OR AUTOMATIC START /
- DIRECTION OF ROTATION SELECTION
- SAFE STOP WITH 3-SECOND COUNTDOWN AND EXTERNAL VOLTMETER
- HOUR COUNTER
- ADDITIONAL AUTOMATIC SWITCH (FOR EXAMPLE, FOR FEEDING FERTILIZER SOLUTIONS)
- PRECISE, STABLE, DISCRETE AND MULTIFACTORIAL CONTROL OF THE OPERATING PARAMETERS OF THE INSTALLATION, TAKING INTO ACCOUNT FEEDBACK FROM THE MAIN COMPONENTS, DEPENDING ON THE GOALS AND SPECIFICS OF ON-SITE OPERATION (FOR COMPUTERIZED VERSIONS OF PANELS)

DESIGN OF THE CONTROL PANEL



OPTIONS

- PRESSURE START AND/OR STOP
- STOP BY TEMPERATURE LEVEL ($< 3^{\circ}\text{C}$)
- AUTOMATIC REVERSE SYSTEM / STOP
- CONTROL OF THE END WATER CANNON

10. SPRINKLERS



KOBLiK irrigation systems include a complete set of sprinklers, fixed and rotary, allowing you to adapt to any type of terrain, crops or weather conditions. Sprinklers operate at low pressure evenly throughout the sprinkler system, which reduces costs by efficiently using water and minimizing losses caused by evaporation, wind drift and surface runoff



FIXED SPRINKLERS

They provide high efficiency, especially on sandy soil. They operate at low pressure (from about 4 to 1.4 bar).

The diameter of the irrigation zone is 6-10 m, depending on the operating pressure and the height of the sprinklers



ROTARY SPRINKLERS

They guarantee highly efficient irrigation. They provide a low rate of simultaneous application, which is suitable for medium and heavy soils.

The rotational action allows water to be discharged over a long distance to obtain an irrigation zone with a diameter of 10-20 m

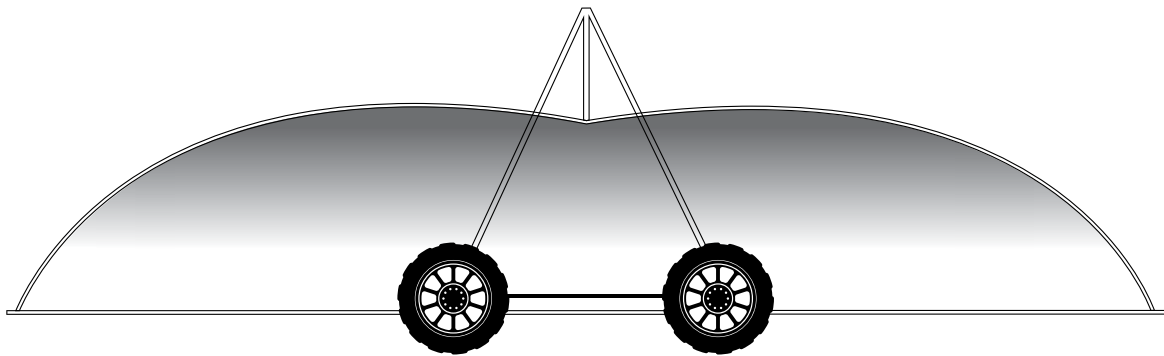


FEATURES OF NOZZLES

■ THE SPECIAL SET "DRY TRACK"

is a system installed on each side of the tower and prevents water from entering the nozzles on the wheels, thereby preventing the wheels from sliding, which leads to soil compaction on the surface

THE SCHEME OF OPERATION OF THE "DRY TRACK"



■ INCREASED DIAMETER OF THE IRRIGATION ZONE

we can develop sprinklers for you on a special order, with specific indicators and performance parameters, in full accordance with your needs, to solve specific tasks

■ ELIMINATION OF WIND DRIFT LOSSES

due to the nozzle using smaller trajectory angles and larger droplet sizes

■ MAINTAINING CONSTANT PRESSURE

and flow on terrain with a height difference through the use of pressure adjustments





METHODS OF APPLICATION

A set of nozzles is selected on site, taking into account the specifics of a particular farm, based on data of climate, soil type, actual yield, terrain.

- **UNIFORMITY OF WATERING IS ENSURED BY ACCURATE COMPUTERIZED DETERMINATION OF THE SIZE AND PITCH OF THE INJECTORS**
- **LOW PRESSURE INJECTORS OPERATE AT A PRESSURE OF ONLY 0.4 BAR (SAVING POWER AND REDUCING ENERGY CONSUMPTION)**
- **IRRIGATION EFFICIENCY CAN REACH 95% DEPENDING ON THE DESIGN OF SPRINKLERS**
- **ADDITIONAL SPRINKLER OPTIONS: END WATER CANNONS, DRIP SPRINKLERS, ROTATING SPRINKLERS AND CHEMICAL/FERTILIZER APPLICATION EQUIPMENT**

GENERAL TECHNICAL DATA

VALLEY TYPE SPRINKLERS



LOW-CONSUMPTION INJECTORS

- quick-change nozzles
- unique shape for moving through crops

PRESSURE ADJUSTMENT

- precision watering on hilly terrain
- 6 models are supplied, depending on the needs and specifics of the farm

NELSON TYPE SPRINKLER



ROTATING DRIP NOZZLES

- provide the greatest spray distance
- reduced average watering speed, increased holding time and reduced drainage due to variable water supply schemes

PRESSURE ADJUSTMENT

- resistance to the formation of plugs
- wide range of flow values

SENNINGER TYPE SPRINKLERS



UNIVERSAL PLATFORM FOR CIRCULAR IRRIGATION SYSTEMS

- simple nozzle design
- single base and bracket

HANGING PRESSURE GAUGE

- hanging pressure gauge: 0 - 200 kPa (0 - 2 bar) or 0 - 410 kPa (0 - 4.1 bar), glycerin pressure gauge with a diameter of 6.35 cm
- large coverage diameter, ultra-low watering intensity



11. CORROSION ACTIVE WATER PIPES

As it becomes increasingly difficult to access impurity-free water for soil irrigation, the primary problem is the corrosion resistance of sprinkler pipes. To solve it, we have developed two different types of anti-corrosion pipes

FEATURES

- SUITABLE FOR THE MOST SEVERE CONDITIONS
- HOT-DIP GALVANIZED STEEL
- INTERCHANGEABLE FOR MOST INSTALLATIONS ON THE MARKET

THIN-WALLED SPECIAL CARRIER PIPE

FEATURES

- HOT-DIP GALVANIZED STEEL BOTH INSIDE AND OUTSIDE FOR ADDITIONAL PROTECTION
- HIGH DENSITY PET INNER COATING (HIGH MOLECULAR WEIGHT WEAR-RESISTANT) 3.94 MM THICK
- DOES NOT REQUIRE JOINTS BETWEEN SPANS (MOLDED FLANGE TECHNOLOGY)
- OUTLET PIPE MADE OF SPECIAL HIGH-STRENGTH POLYMER FOR OUTLET TO THE NOZZLES
- A UNIQUE SYSTEM OF POLYETHYLENE CARGO ON NOZZLES
- THE GALVANIZING PROCESS IS CARRIED OUT ACCORDING TO EN ISO 1461 AND ASTM 123 STANDARDS

DELIVERY OPTIONS



TIRE SIZE

Choose the size and width of the tires depending on your needs: wheels with a radius of 571 - 965 mm and a width of 279 - 429.3 mm



UNIVERSAL ENGINE PROTECTION COVER

For all three-phase central drive electric motors with helical gear. Protects the engine housing from water, dust, etc.

(not available for worm gear motors or for central drives powered by a single-phase power supply)



STOP AT THE END OF THE FIELD / AUTOMATIC REVERSE AT THE END OF THE FIELD

Exact stop or reverse of the machine
fences in the form of racks and frames are supplied for circular and frontal irrigation installations

DESIGN OPTIONS*

STANDARD PROFILE TRACTION TROLLEYS

GROUND CLEARANCE: 2,8 - 3 m

LOW PROFILE TRACTION TROLLEYS

are used if standard clearance is not required

GROUND CLEARANCE: 1,85 - 1,95 m

HIGH PROFILE TRACTION TROLLEYS

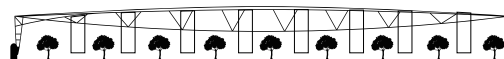
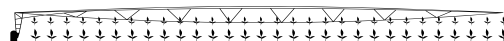
provide increased clearance between the plant and the plants

GROUND CLEARANCE: 3,9 - 4 m

ULTRA-HIGH PROFILE TRACTION TROLLEYS

provide increased clearance between the installation and plants

GROUND CLEARANCE: 4,9 - 5 m



* the actual value of ground clearance in the field depends on the depth of the wheel track, the length of the spans, the terrain of the field and various operating conditions

MAINTENANCE



KOBLIK irrigation systems are characterized by durability and reliability.

All systems are manufactured in accordance with the **ISO 9001** quality standard.

After purchasing a sprinkler system, we will carry out commissioning work directly on the farm, set up and put into operation to ensure maximum efficiency and durability of the purchased machine. If necessary, we will train your staff to reduce the risks of improper use of equipment, increase the effectiveness of its application, taking into account the nuances of your company and the practiced set of agrotechnical operations.

If sprinkler installations and irrigation systems from other manufacturers are used in your park, we can provide special training for employees to improve the effectiveness of sprinkler machines



BASIC WARRANTY STANDARDS

- 2 YEARS - FOR ALL ELECTRICAL AND MECHANICAL SYSTEMS
- 5 YEARS - FOR GALVANIZED PIPES (IN A NEUTRAL WATER ENVIRONMENT)
- 5 YEARS - FOR METAL STRUCTURES
- 10 YEARS - FOR PIPES



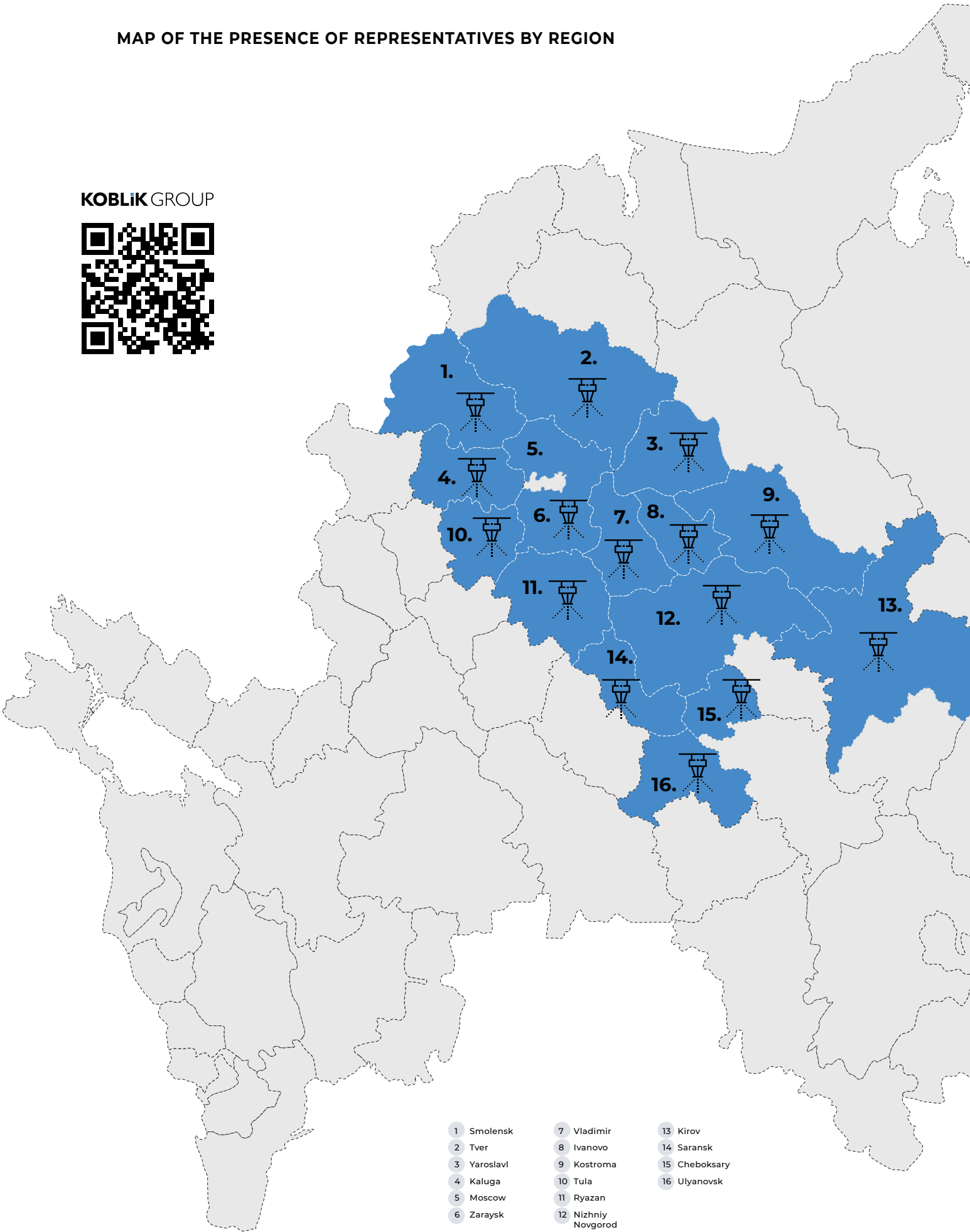
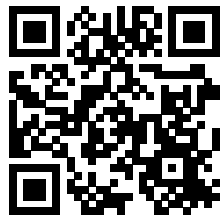
EXTENDED WARRANTY PROGRAM

- COVERAGE EXTENSION IS AVAILABLE FOR UP TO 10 YEARS

For more information, please contact our regional representative

MAP OF THE PRESENCE OF REPRESENTATIVES BY REGION

KOBLIK GROUP



FOR NOTES

FOR NOTES



KOBNIK.RU

285/5 Soldatskoye pole str., Voronezh, 394056, Russia

Tel. +7 473 206 77 77 info@kobnik.ru

A dealership in your area