

BELT CONVEYORS



- Conveyors are designed for horizontal and inclined (up to 15°) transportation of grain and other products in intake pits from railway and road transport, at catwalks, and silos bottom galleries at flour mills, cereal plants, feed mills, oil extraction plants and other enterprises, connected to storage and processing of grain or oilseeds.
- Conveyors are roller conveyors, grooved, non-reversible (transport the product only in one direction), can be open or closed.
- All sections of KL conveyors are made of galvanized steel, which prolongs their service life;
- Belt conveyors can be individually designed. The maximum length of the standard versions is from 50 up to 80 m, and the capacity can reach 300 t/h.

TECHNICAL DATA OF KL BELT CONVEYORS

DESCRIPTION	R1-KL-500	R1-KL-	R1-KL-420	R1-KL-800	R1-KL-800 TYPE 1
	500 1	TYPE			
Maximum Technical Capacity on wheat grain with density 750 g/l, moisture, max 16%, t/h, min	100		85	300	300
Max. length of transporting, M	80		50	80	80
The angle of inclination of the conveyor to the horizontal, deg, max	15				
Traction unit	Conveyor belt				
Belt speed, m/s	2,5÷2,7		2,0÷2,5	3,0	3,0
Belt width, mm	500		420	800	800
Installed power with maximum capacity and max. length of transporting, kWt, max	7,5		5,5	18,5	18,5
Overall dimensions *,mm, max					
length	84000		52000	84000	84000
width including gear motor	2000		835	2300	2300
width excluding gear motor	850		665	1170	1170
height	930		575	1000	1000
Mass **, kg, max					
drive/head section	370	370	100	420	420
tension/tail section	340	340	93	390	390
intake section	150	130		200	180
discharge section	150	130		200	180
middle section (L = 2000 MM	150	130	41	200	180

Remark: *Max. overall dimensions of the conveyor (on max length and max installed power)

**Mass of the main sections is shown, mass of the head station is given for max installed power.

Reliability index of KL belt conveyor

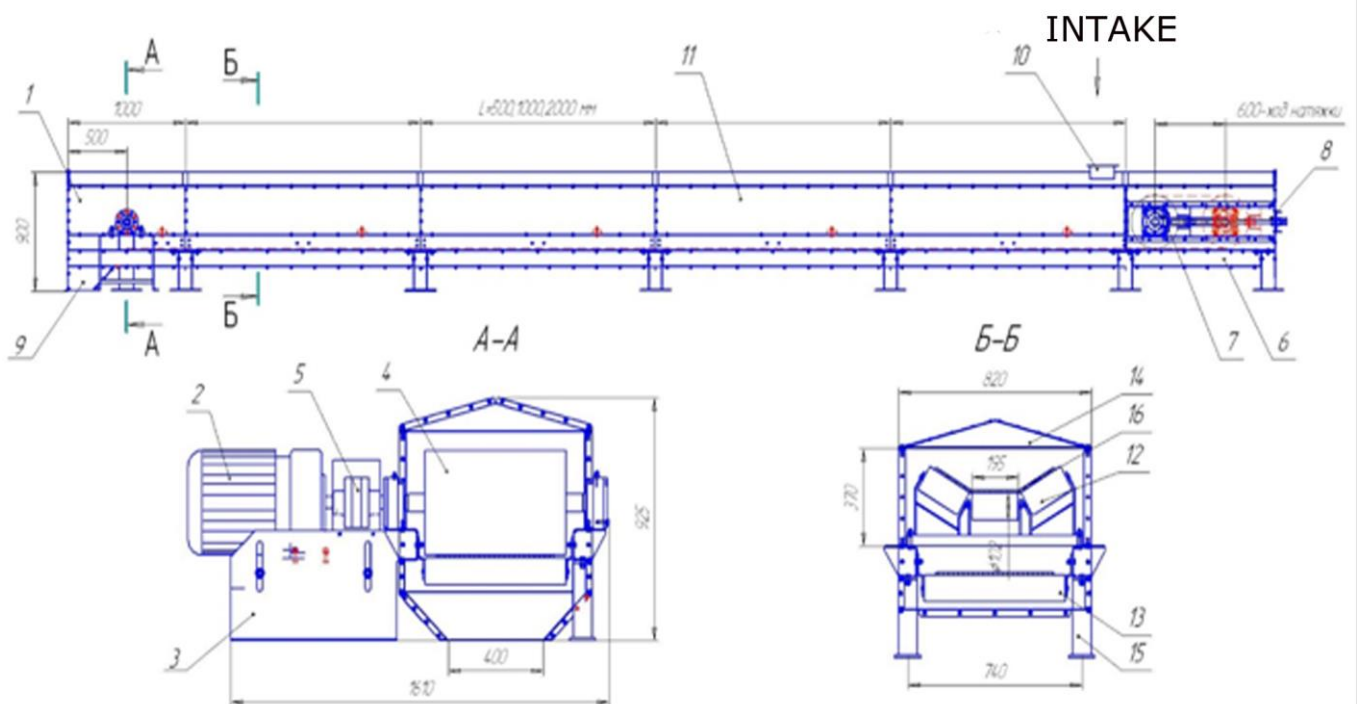
Name of indicator	Value indicator
Service life, years	10
Service life before major repairs, years, min	5
Mean time between failures, h, min	1000
Average recovery time	8

KL belt conveyor design

All sections of the conveyor are made of galvanized steel.

1. Head/drive section consists of a gear motor, frame, clutch and drum. When starting the gearbox, the drum transmits the driving force to the conveyor belt, thereby driving it.
2. The middle section consists of supporting rollers: upper bearing rollers and flat bottom return rollers, as well as transport tape.
3. Tail/tension section is necessary to create the friction force on the drive drum and transfer the force of movement to the belt with grain. This section consists of a tension drum, speed control sensor.

At the end and beginning of the conveyor there are openings for intake and discharge of grain material.



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|--------------------------|----------------------------|
| 1- Head/ drive section | 11- Middle section |
| 2- Gear motor | 12- Upper bearing rollers |
| 3- Drive station frame | 13- Bottom supporting roll |
| 4- Drive drum | 14- Cover |
| 5- Coupling | 15- Supporting leg |
| 6- Tail/ tension section | 16- Belt |
| 7- Tension mechanism | |
| 8- Tension screws | |
| 9- Discharge pipe | |
| 10- Intake pipe | |