CHAIN CONVEYORS

HORIZONTAL GRAIN TRANSPORT

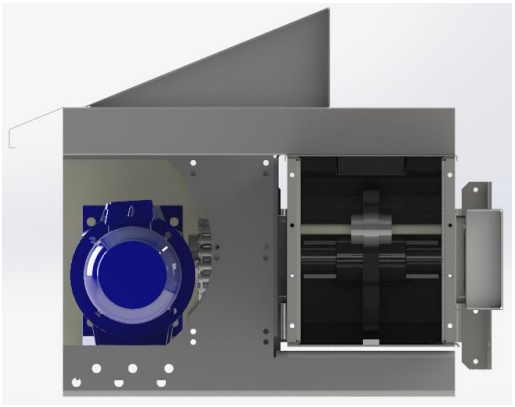
Chain conveyors are used to horizontally transport of grains of cereals and maize, legume plants, oleaginous plants, various feed products (meal, middlings, granules and briquettes) and other. Transport of raw material can be continuous at manual or mechanical loading. They are widely used at grain treatment (receiving, cleaning, drying, storage, etc.), in production plants and mixing plants of feed, large establishments in the food industry.

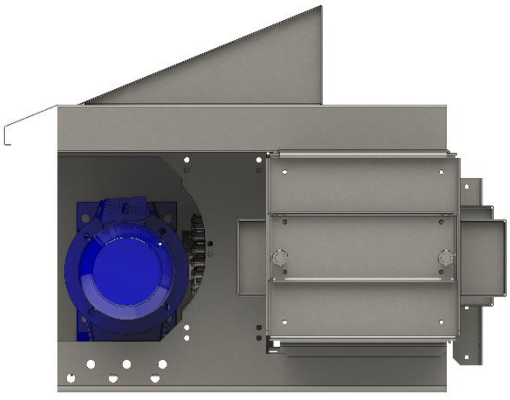
Additional equipment of the conveyor:

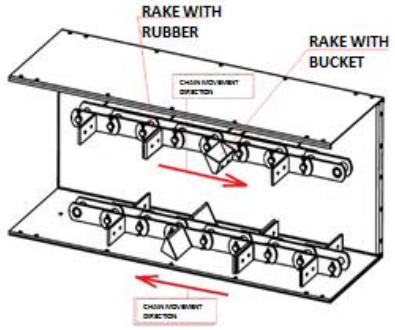
1. Bearings (feet) under redler
2. Rotations (movement) detector
3. Under-redler gate valve

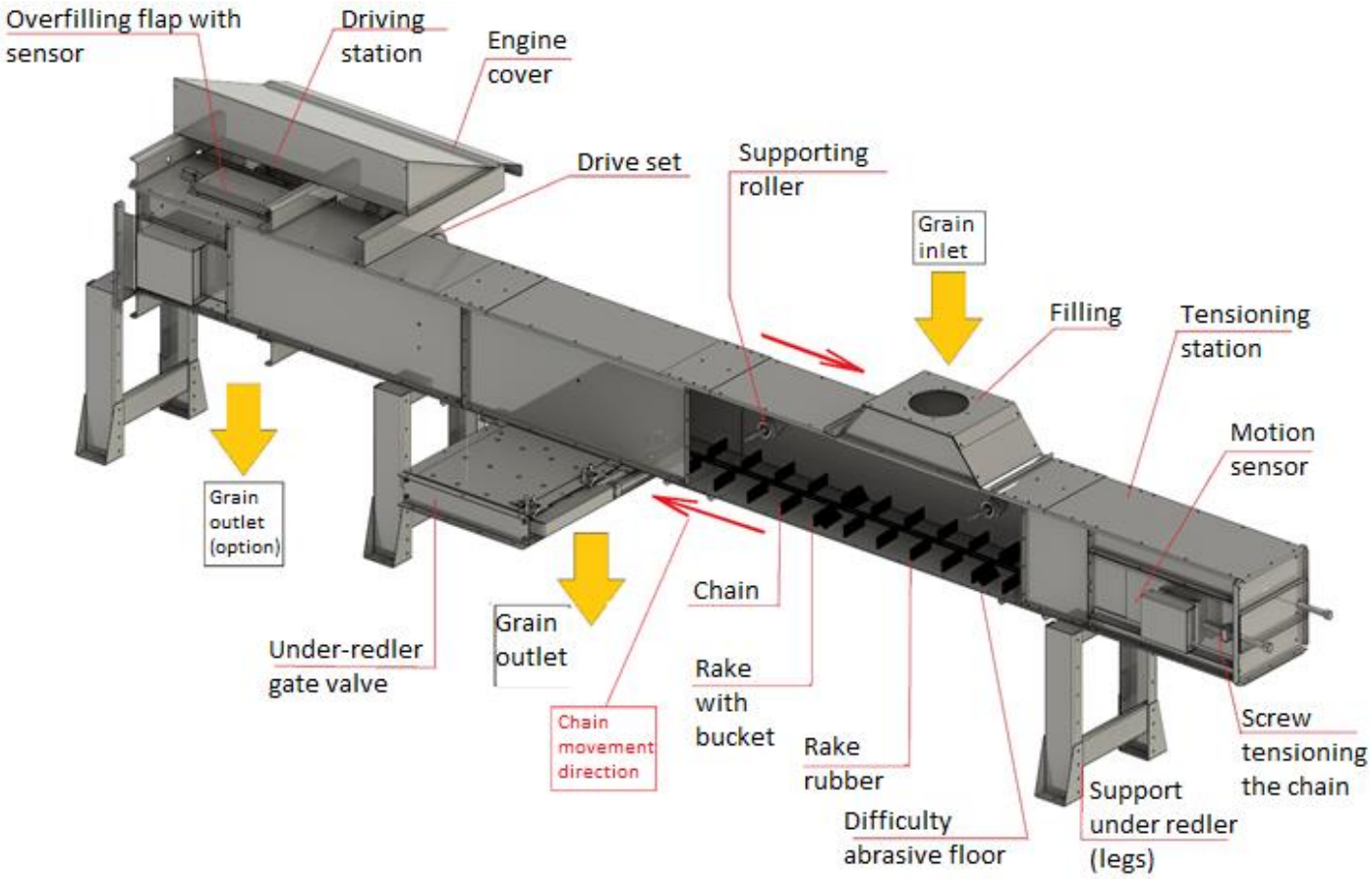
The chain conveyor is characterised with:

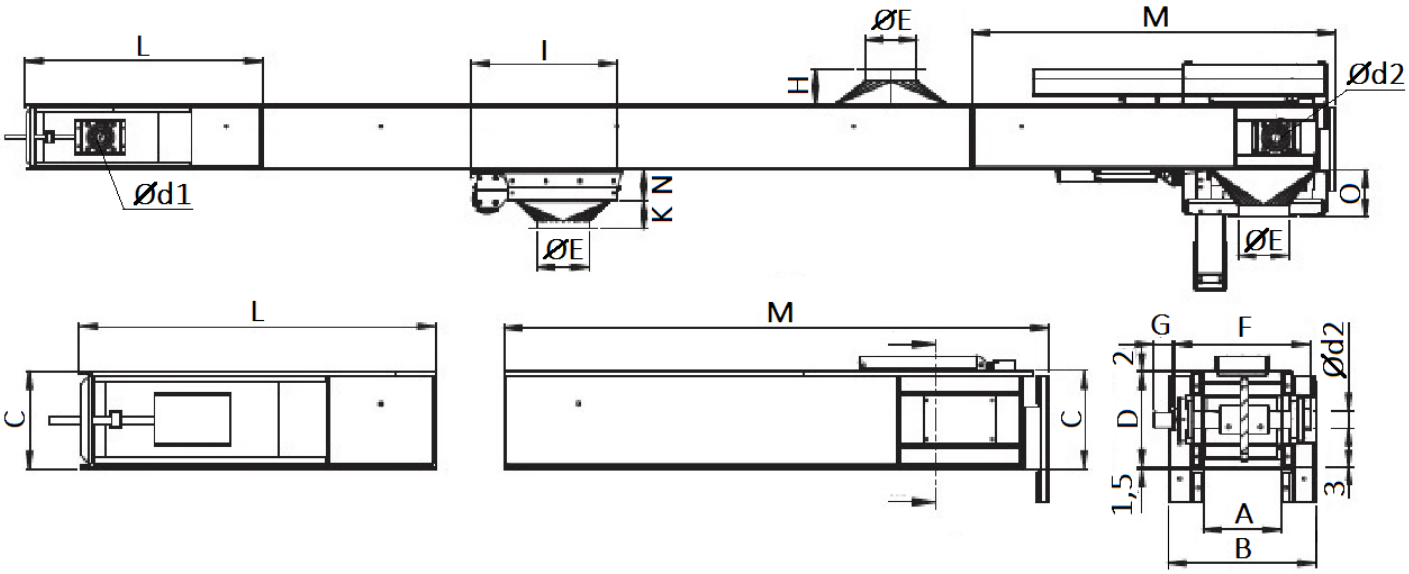
- Capacity from 30 to 150 t/h.
- Length from 2m to 90m with stroke every 0.5 m.
- Made of galvanised steel sheet from 2 to 3mm.
- The whole is screwed with screws of hardness of 8.8.
- There are two variants: standard and basket.
- They are equipped with a chain made of a flat surface with a thickness of 6 mm.
- Grain can be transported at an angle with limitation to 6^{o}.
- Hardened links and bushings.
- Every fifth blade has rubber cover.
- The bottom is made of a wear-resistant material.
- The guide rail of the chain made of PTFE.
- The inspection channel is located in the drive part.
- The tension station with a double-sided mechanical tensioner.
- In addition, it has scraping blades.
- Application of proven drives assures reliable operation of the conveyors.
- We offer different variants of length of the legs under redler.
- Depending on capacity of the conveyor, outlet and inlet are designed under the appropriate fittings, such as: Ø159; Ø219; Ø244.5; Ø324.
- The conveyor up to 6m can be used in the right-left option, which means that goods can be discharged at the end and at the beginning of the device.
- The possibility to transport grain in two directions (right-left) on longer distances using double-floor conveyor (two channels).
- If the chain conveyors are in a difficult to access place, and are not covered (e.g. on height), they have a sloping canopy on the channels. This is to eliminate deposition of snow or rainwater.
- The possibility to transport grain on a certain height (at low own length) due to application of an arch redler.
- It is possible to discharge and fill from a number of ways. Outlet of grain is then by the under-redler gate valve, which allows to temporarily close and open the desired technological way.









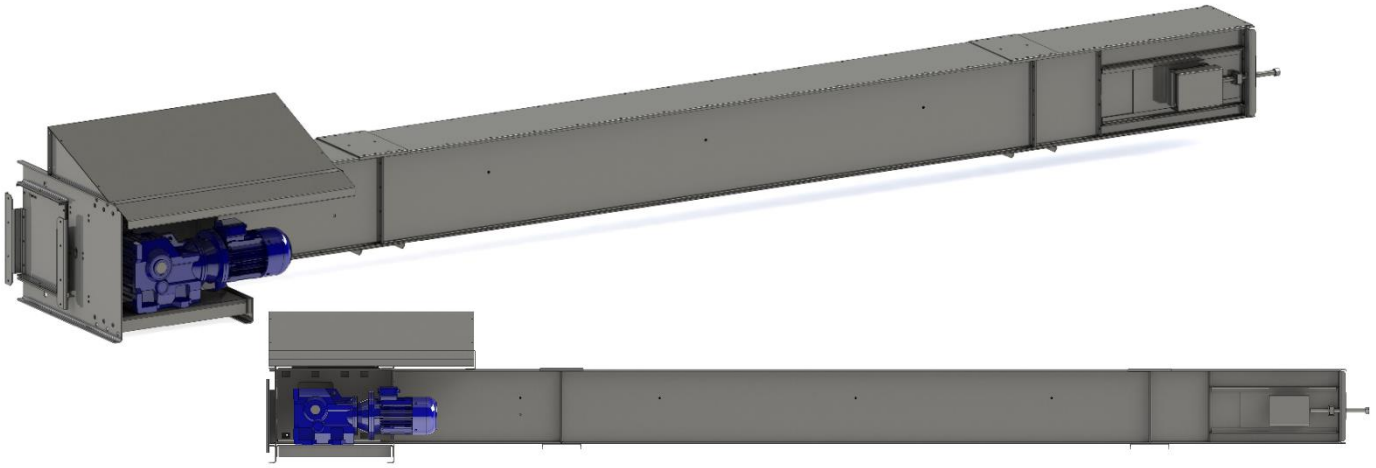


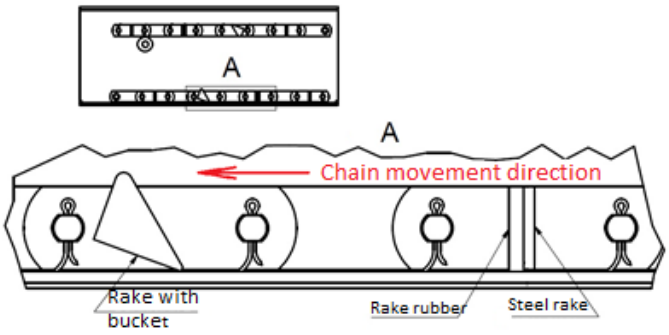
Typ	A	B	C	D	E	F	G	H	I	K	L	M	N	O	d1	d2	P-P	Moc elektryczna	Prędkość pasa	Wydaj-ność
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m	kW	m/s	t/h
30 t/h	220	417	276	269	Ø159	384	53	153	632	150	1004	1536	131	185	45	45	2,0 - 70,0	2,2 - 11,0	0,5	30
30 t/h	220	417	276	269	Ø219	384	53	153	752	120	1004	1536	131	205	45	45	2,0 - 70,0	2,2 - 11,0	0,5	30
50 t/h	280	480	382	375	Ø219	475	70	153	752	173	1004	1506	173	215	50	60	2,0 - 70,0	3,0 - 15,0	0,5	50
80 t/h	280	480	382	375	Ø244,5	475	70	153	752	173	1004	1506	173	215	50	60	2,0 - 70,0	4,0 - 15,0	0,6	80
130 t/h	360	570	482	475	Ø324	620	46	153	752	120	1000	1506	131	195	80	70	2,0 - 90,0	4,0 - 22,0	0,6	130
150 t/h	360	570	482	475	Ø324	620	46	153	752	120	1000	1506	131	195	80	70	2,0 - 90,0	4,0 - 30,0	0,8	150

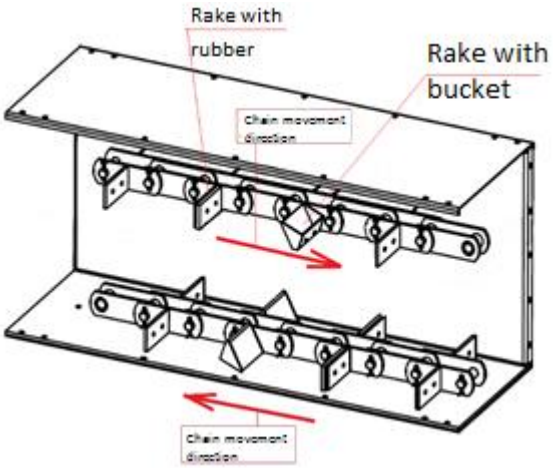
*approximate value for wheat with 14% and density of 0.76 t/m3

The producer reserves the right to introduce technical changes.

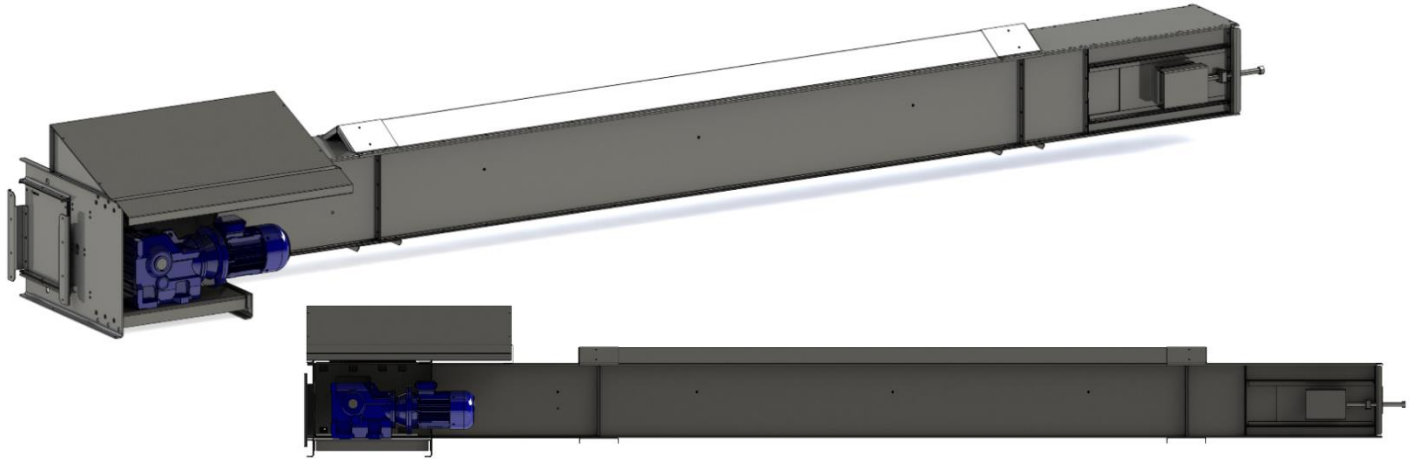
STANDARD OPTION

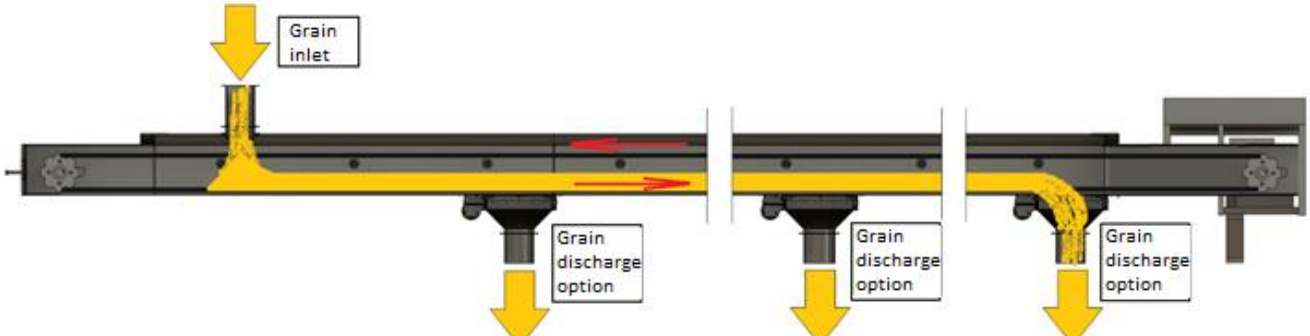




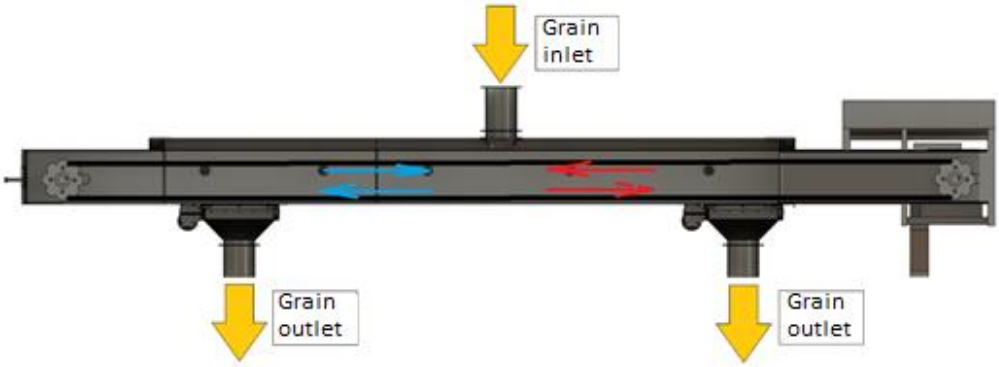


STANDARD OPTION WITH SLOPING ROOF





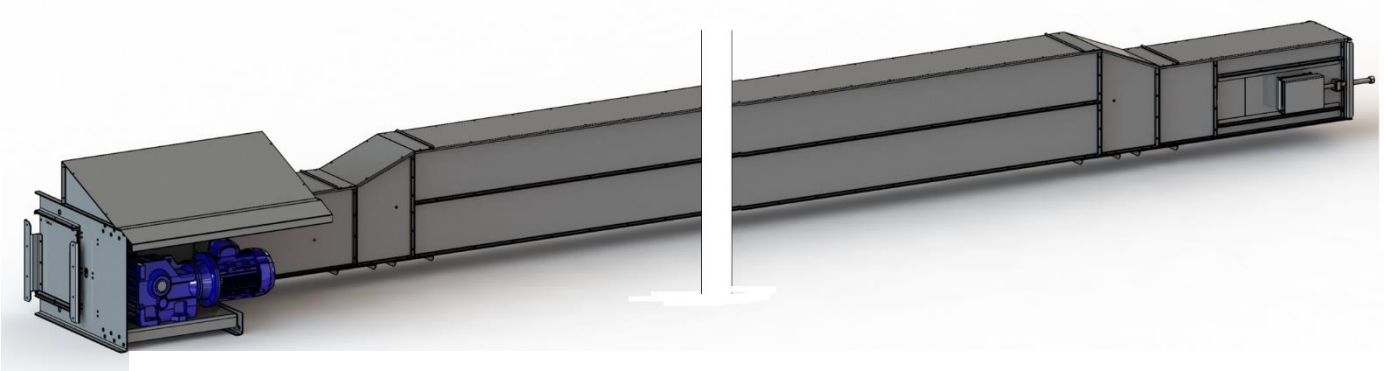
OPTION WITH BILATERAL MOVEMENT TO 6m (RIGHT-LEFT)

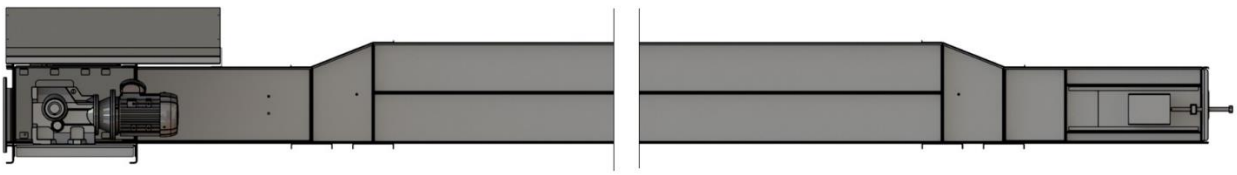


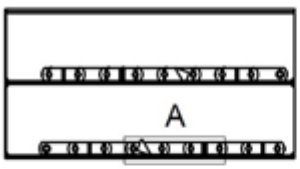
The chain conveyor with bilateral movement to 6m is characterised with:

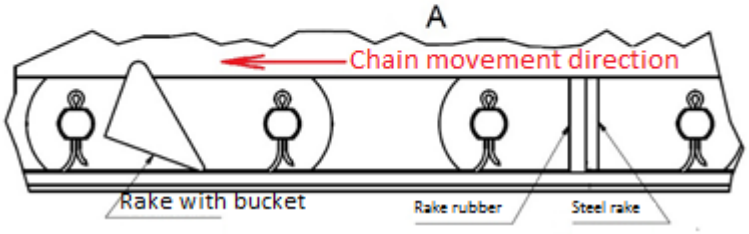
- The possibility to install filling and discharging of redler on the whole length of the conveyor. Only to the length of the channels 6m.
- It is not necessary to apply more chain conveyors.
- The possibility to discharge goods anywhere with the under-redler gate valves.
- The possibility to set only horizontally.

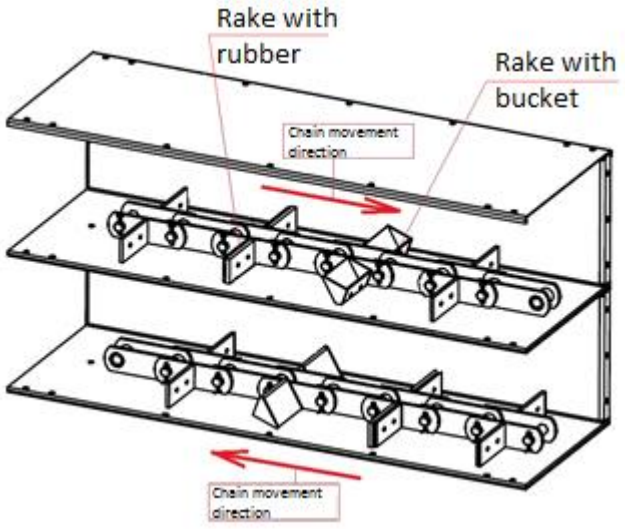
OPTION WITH BILATERAL MOVEMENT OVER LONG DISTANCES (DOUBLE-FLOOR REDLER)

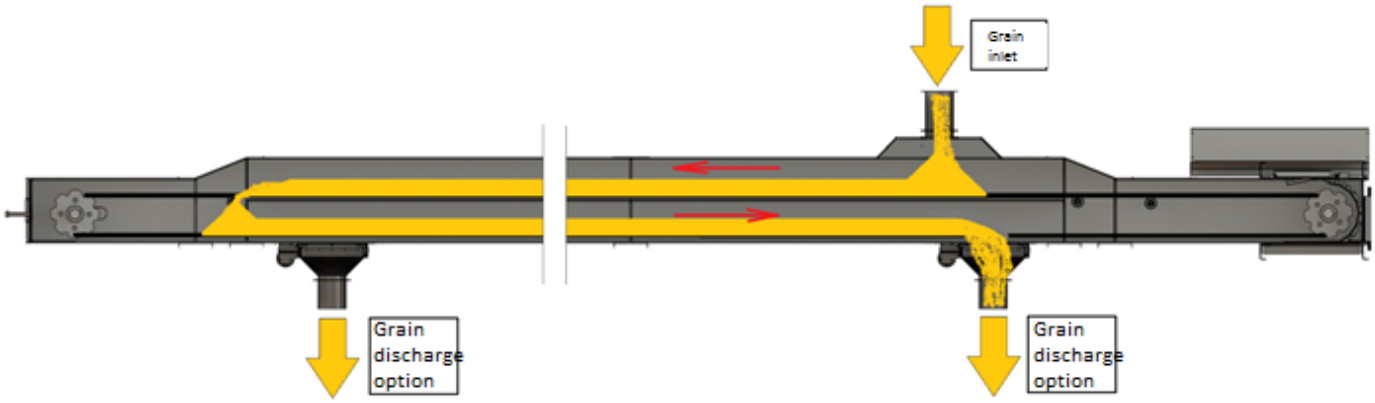






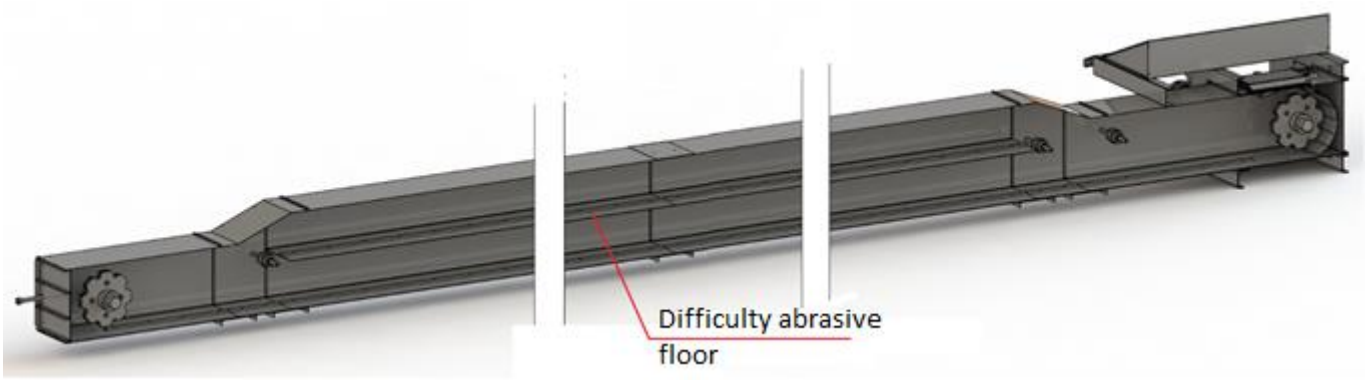






The double-floor chain conveyor is characterised with:

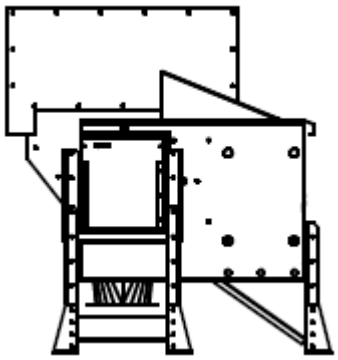
- The possibility to install filling and discharging of redler on the whole length of the conveyor. In the standard option (longer channels from 6m) filling can only be executed at the tensioning station.
- It is not necessary to apply more chain conveyors.
- The possibility to discharge goods anywhere with the under-redler gate valves.
- The possibility to set only horizontally.



BASKET CHAIN CONVEYORS

The basket chain conveyors are used to horizontally transport and receive of grains of cereals and maize, legume plants, oleaginous plants, various feed products (meal, middlings, granules and briquettes) and other. Transport of raw material can be continuous at manual or mechanical loading. They are widely used at grain treatment (receiving), in production plants and mixing plants of feed, large establishments in the food industry.

The basket chain conveyor is characterised with:



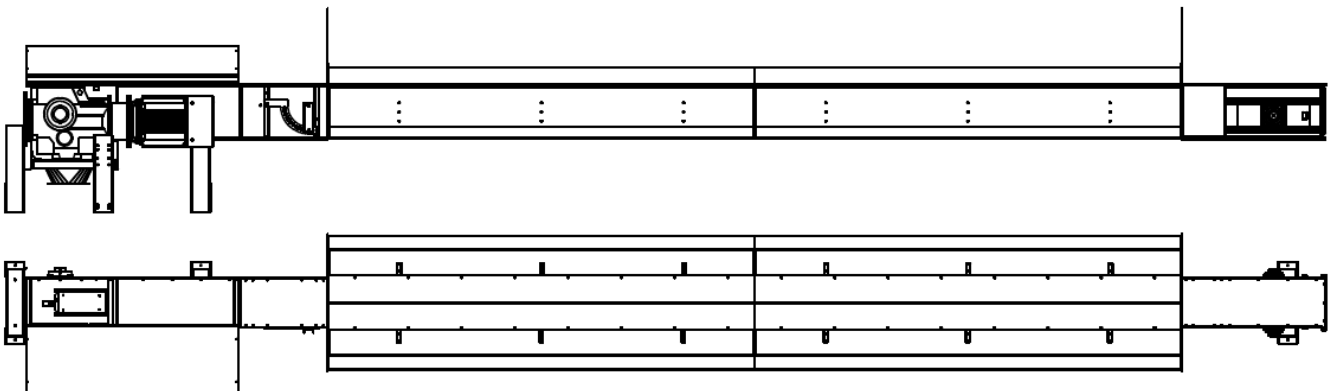
- Capacity from 30 to 150 t/h.
- Length from 2m to 21m with stroke every 1.0m.
- Made of galvanised steel sheet from 2 to 3mm.
- The whole is screwed with screws of hardness of 8.8.
- They are equipped with a chain made of a flat surface with a thickness of
- Hardened links and bushings.
- Every fifth blade has rubber cover.
- The bottom is made of a wear-resistant material.
- The guide rail of the chain made of PTFE.
- The inspection channel is located in the drive part.
- The tension station with a double-sided mechanical tensioner.
- In addition, it has scraping blades.
- Application of proven drives assures reliable operation of the conveyors.
- We offer different variants of length of the legs under redler.
- Depending on capacity of the conveyor, outlet and inlet are designed under the appropriate fittings, such as: Ø159; Ø219; Ø244.5; Ø324.
- Canopy of the basket redler is required.
- A mechanical capacity adjuster is installed behind the receiving station. In addition, it is possible to order the inverter for electrical adjustment of grain flow.

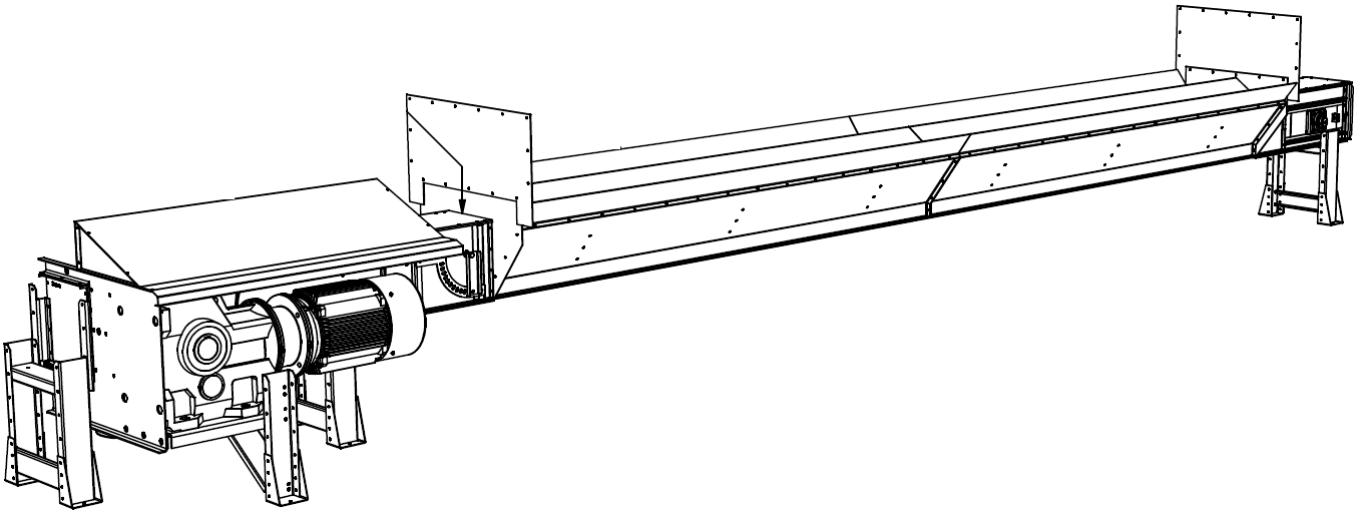
Additional equipment of the basket conveyor:

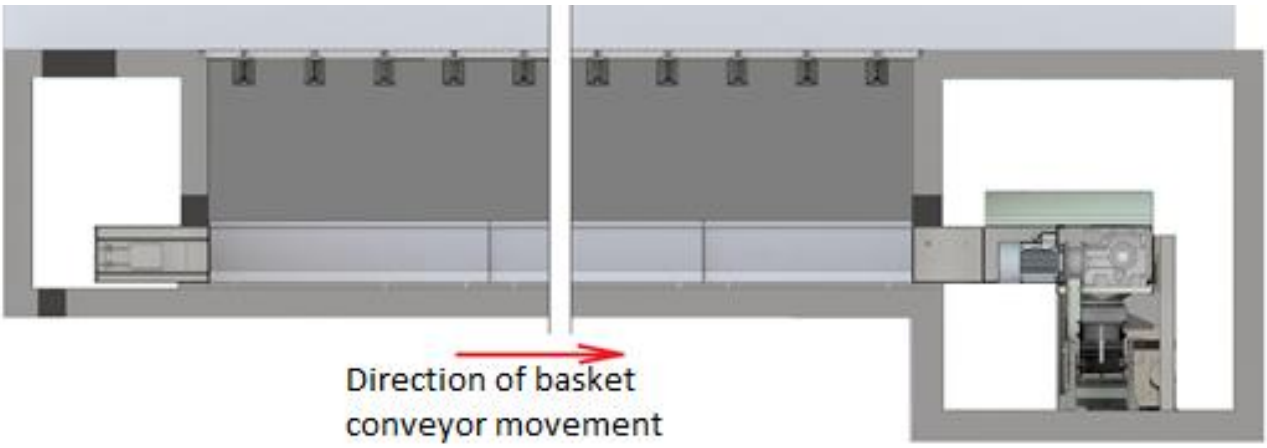
1. Bearings (feet) under redler
2. Rotations (movement) detector
3. Under-redler gate valve
4. Inverter - electrical

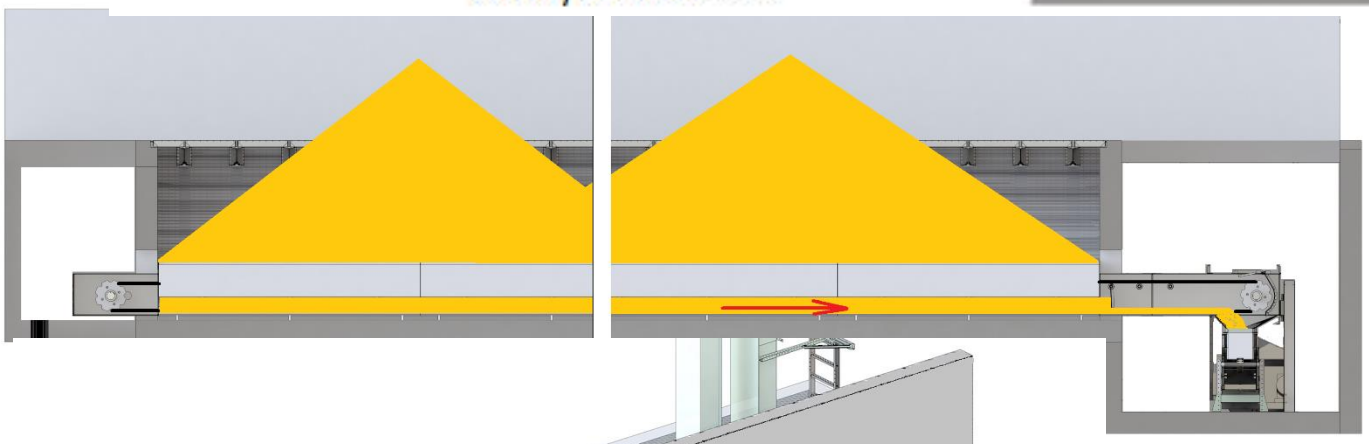
Typ	E	L	M	P-P	Moc elektryczna	Prędkość pasa	Wydaj-ność
	mm	mm	mm	m	kW	m/s	t/h
30 t/h	Ø159	1004	1536	2,0 - 21,0	3,0 - 11,0	0,5	30
50 t/h	Ø219	1004	1506	2,0 - 21,0	4,0 - 15,0	0,5	50
80 t/h	Ø244,5	1004	1506	2,0 - 21,0	4,0 - 15,0	0,6	80
130 t/h	Ø324	1000	1506	2,0 - 21,0	5,5 - 18,5	0,6	130
150 t/h	Ø324	1000	1506	2,0 - 21,0	5,5 - 22,0	0,8	150

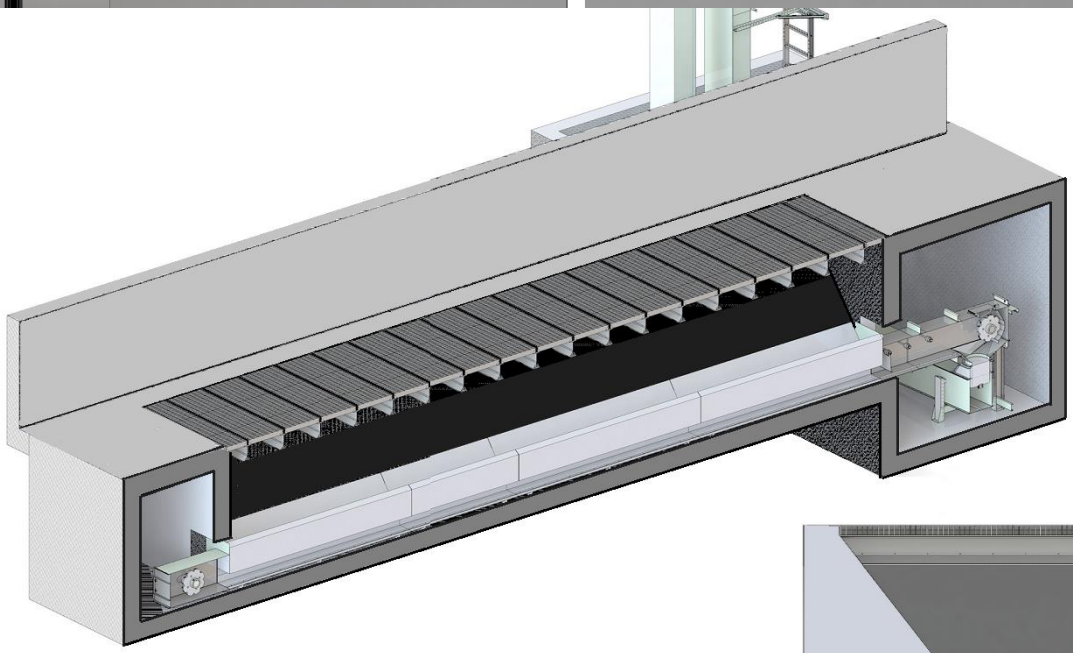
approximate value for wheat with moisture of 14% and density of 0.76 t/m3

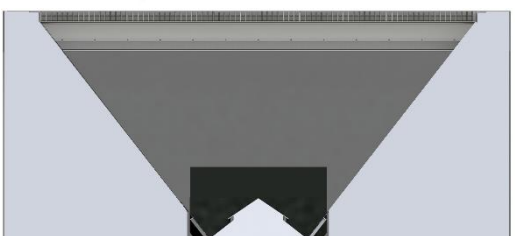





Direction of basket
conveyor movement







ARCH CHAIN CONVEYORS

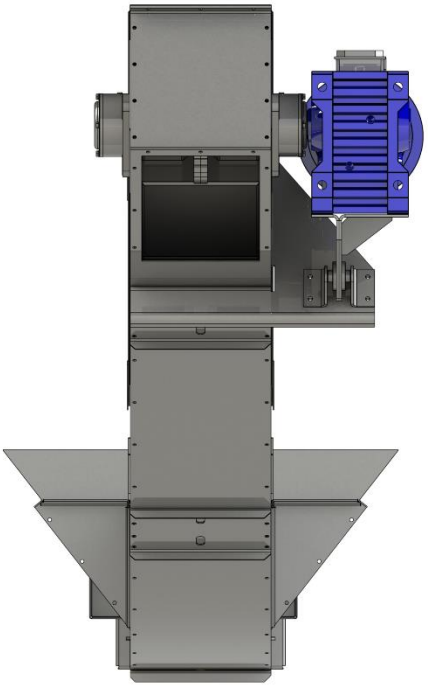
The arch chain conveyors are used to horizontal inclined transport and receiving of grains of cereals and maize, legume plants, oleaginous plants, various feed products (meal, middlings, granules and briquettes) and other. They are widely used at grain treatment (receiving), in production plants and mixing plants of feed, large establishments in the food industry.

The arch chain conveyor is characterised with:

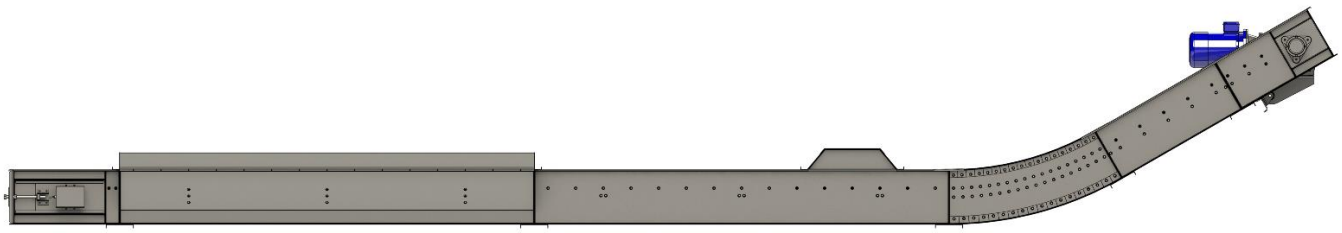
- Capacity from 30 to 150 t/h.
- Redler has the second floor in the filling parts and the arch part.
- The inclined section is at an angle of 30 degrees.
- Raising of discharge is adjusted to direct filling of the basket lift. This largely saves the technological pits.
- The main function of the conveyor is to directly fill the basket lift or other redler without deepening the foundations.
- It can have segments of normal redler and basket redler.
- Length from 2m to 21m of the basket segments with stroke every 1.0m.
- Length from 2m to 50m of normal channels with stroke every 0.5m.
- Made of galvanised steel sheet from 1.5 to 4mm.
- The whole is screwed with screws of resistance class of 8.8.
- They are equipped with a chain made of a flat surface with a thickness of 6 mm. The chain is equipped with blades to vanes for raking appropriate amount of grain.
- The bushings and pins are thermally treated in order to obtain the strength and resistance to abrasion.
- The chain guide rail in the arch segment is made of abrasion resistant plastic.
- The tension station with a double-sided mechanical tensioner.
- Application of proven drives assures reliable operation of the conveyors.
- The outlet and inlet are designed under the fittings of Ø219 and Ø244.5.
- Canopy of the receiving part (basket) is required.
- It is not necessary to install mechanical capacity adjuster, because double floor has been installed in the filling parts.
- In addition, it is possible to order the inverter for electrical adjustment of grain flow.
- No possibility to pour redler.
- The method of connection the floors prevents from unequal setting.
- Reinforced bearings in the drive station and non-clutch method of drive transmission have been applied.

Additional equipment of the arch conveyor:

1. Bearings (feet) under redler
2. Rotations (movement) detector
3. Under-redler gate valve
4. Inverter - electrical



The producer reserves the right to introduce technical changes.



Chain conveyor

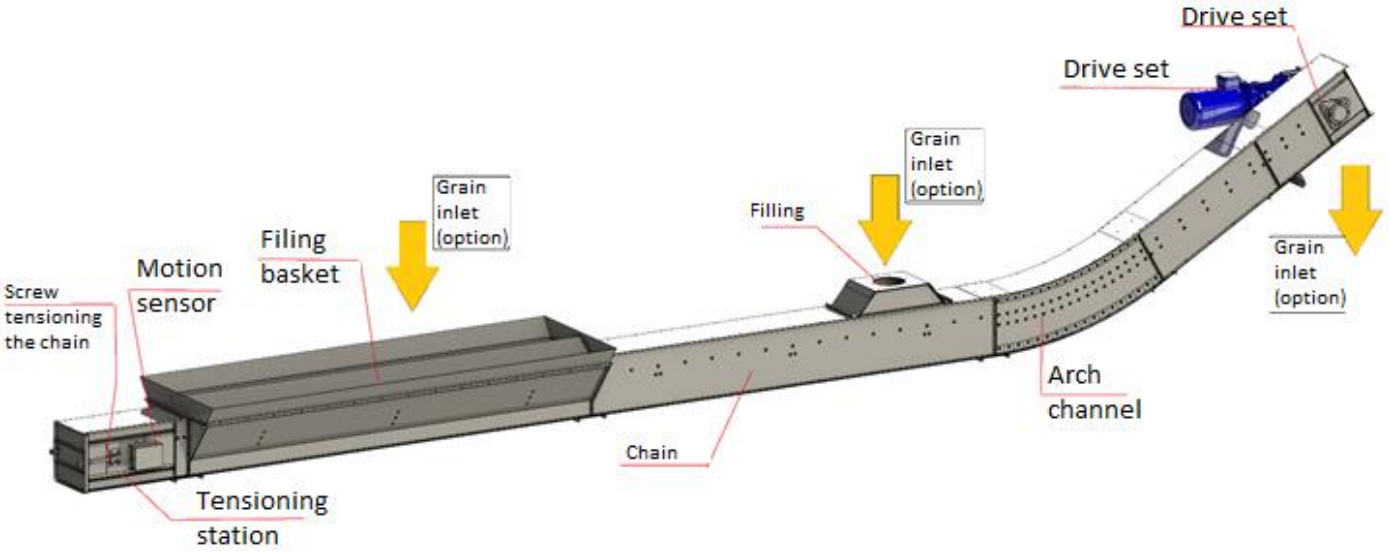
Typ	E	d1	d2	P-P	Moc elektryczna	Prędkość pasa	Wydaj-ność
	mm	mm	mm	m	kW	m/s	t/h
30 t/h	Ø219	45	45	2,0 - 70,0	2,2 - 11,0	0,5	30
50 t/h	Ø219	50	60	2,0 - 70,0	3,0 - 15,0	0,5	50
80 t/h	Ø244,5	50	60	2,0 - 70,0	4,0 - 15,0	0,6	80
130 t/h	Ø324	80	70	2,0 - 90,0	4,0 - 22,0	0,6	130
150 t/h	Ø324	80	70	2,0 - 90,0	4,0 - 30,0	0,8	150

approximate value for wheat with moisture of 14% and density of 0.76 t/m3

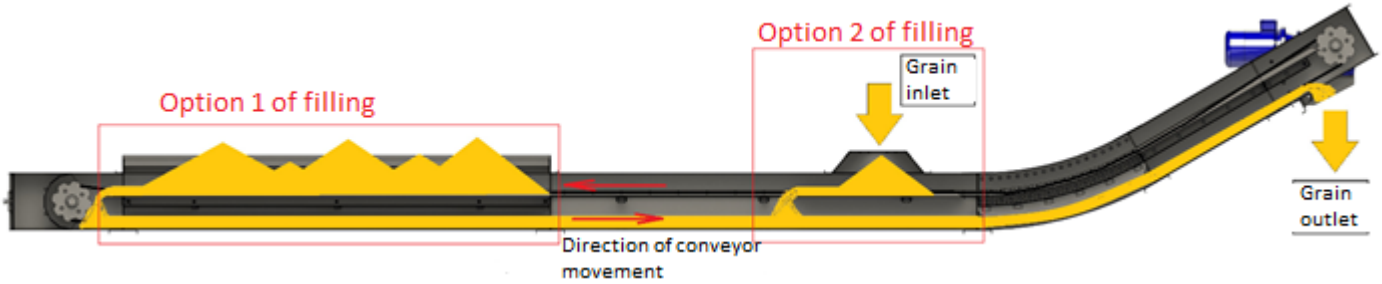
BUCKET ELEVATOR

Typ	E	d1	d2	P-P	Moc elektryczna	Prędkość pasa	Wydaj-ność
	mm	mm	mm	m	kW	m/s	t/h
30 t/h	Ø159	45	45	2,0 - 21,0	3,0 - 11,0	0,5	30
50 t/h	Ø219	50	60	2,0 - 21,0	4,0 - 15,0	0,5	50
80 t/h	Ø244,5	50	60	2,0 - 21,0	4,0 - 15,0	0,6	80
130 t/h	Ø324	80	70	2,0 - 21,0	5,5 - 18,5	0,6	130
150 t/h	Ø324	80	70	2,0 - 21,0	5,5 - 22,0	0,8	150

*approximate value for wheat with moisture of 14% and density of 0.76 t/m3



RULE OF OPERATION OF THE ARCH CHAIN CONVEYOR



Note! Filling can be execute only from a single source. Redler cannot be filled from different filling places simultaneously.