

Chain conveyor leading to baler



DESCRIPTION

The frame of the power supply is made of strong electro-welded metal profiles and bolts in carbon steel, which includes a self-supporting structure on which the guides (anti-wear) of the chain slide are fixed. The guides are fixed by means of bolts that make them interchangeable in case of need. The material used for driving is the Hardox400.

Access for chain maintenance is guaranteed from any point of the belt thanks to the easy removal of the casings placed to protect the chain.

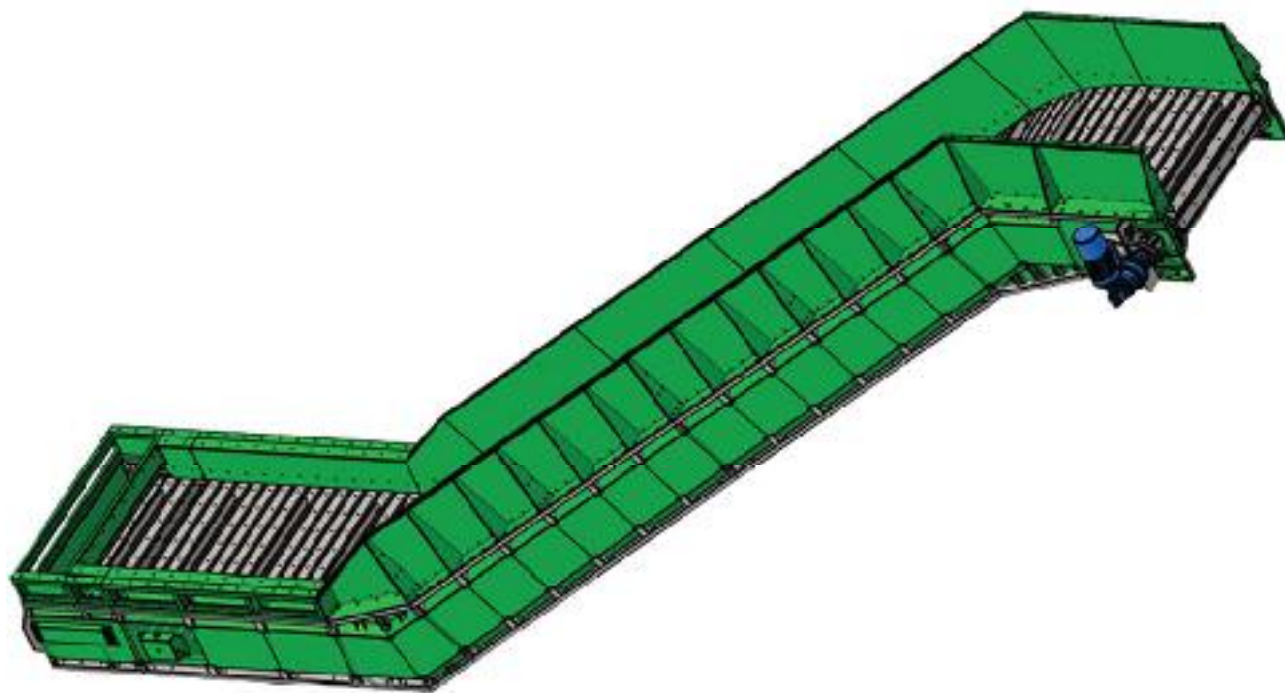
The chain used for traction is made of hardened steel and is sized to withstand high pressures and loads. The chain is lubricated automatically thanks to a nozzle positioned inside and connected to a tank. Obviously the lubrication system is present on both sides.

The traction group ensures movement by means of an oil bath gearbox keyed directly onto the towing shaft made of reclaimed C 40, supported by sealed bearings. On the transmission shaft the toothed crowns are keyed for the traction of the chain.

The movement will be ensured by an orthogonal motor with a hollow shaft. The variable speed drive shaft is keyed on the slow gear of the gearbox.

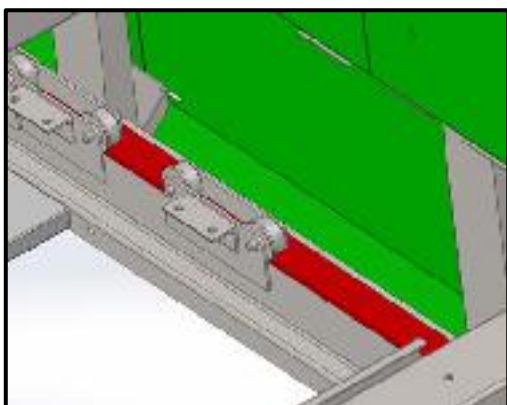
The return unit is also made of a reclaimed C 40 shaft, fitted on supports with sealed bearings; on the shaft are fixed the crowns for the postponement of the chain.

The conveyor is made with a modular structure, which allows you to modify (positive and negative). The chain conveyor rests on adjustable feet, which compensate for any misalignment of the support floor.

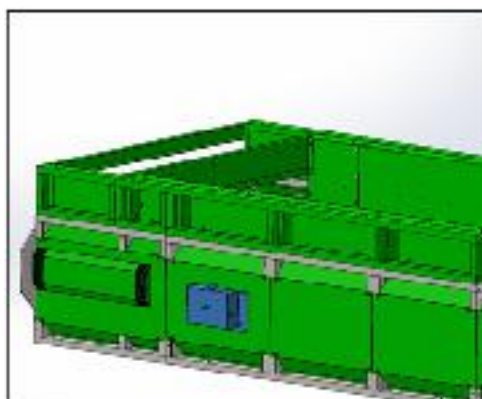


CHARACTERISTICS:

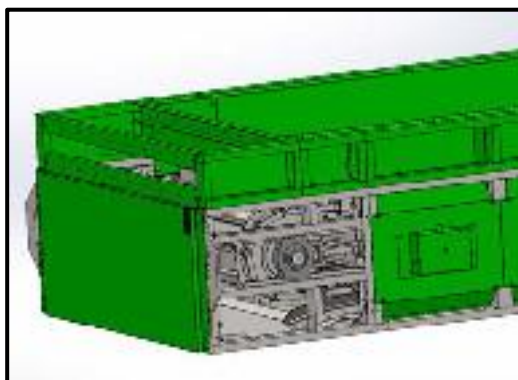
N° of units	n°	1
Interaxial length	mm	22.000 approx
Working width	mm	1.600
Total width	mm	2.100
Inclination	°	32
Length linear part	mm	18.000
Sheet metal thickness	mm	5
Chain pitch	mm	200
Rollers diameter	mm	60
Installed power	kW	5,5
Speed of belt variable	Yes	
Emergency systems	Yes	
Surface finishing		Sandblast, one anti-rust layer + two epoxy paint layers.
Support frame	Yes	
Sheet metal cover	Yes	



Sliding guides in Hardox400 (red)



Chain lubrication oil reservoir (in blue)



Chain tensioning system (grey)

Belt conveyors

Rubber truss conveyor belt



DESCRIPTION

The frame and side rails are made of carbon steel. The frame has a bent sheet metal structure, which gives it considerable strength.

The modular type structure offers great advantages in terms of flexibility, in the sense that any variations in length (positive or negative) that should take over for new needs, are easily implemented.

Also this type of structure allows to mount indifferently the engine or on the right side or on the left side, and, for particular applications, also on the load side.

All the necessary protections are provided in order to avoid accidental contact with moving parts.

The sliding surface of the belt consists of **flat rollers rotating** on sealed bearings. In the loading area the above rollers will be more dense, in order to better mitigate the impact caused by the fall of the material.

The carpet is made of rubber with a strong thickness and is resistant to abrasion, oil and grease substances with a high thickness, 3 canvases in tergal nylon, 4 + 2 mm coating, tensile strength 315 N / mm.

At the engine roller, an external scraper is mounted, with the function of keeping the surface of the

belt clean. The external scraper can only be fitted in the case of a smooth mat (not herringbone or slatted).

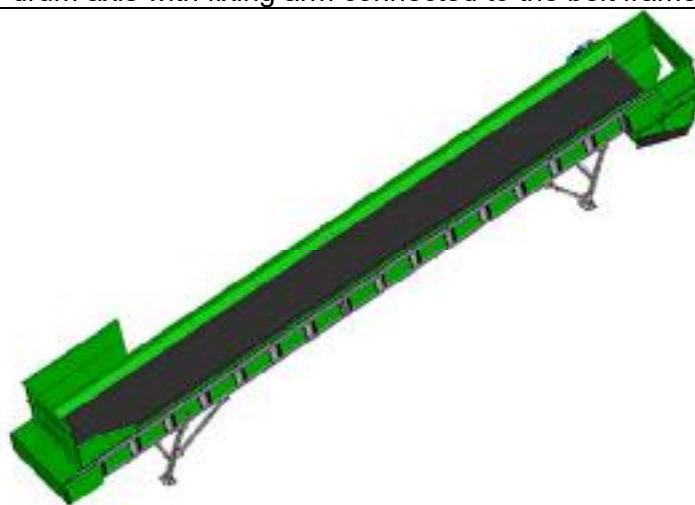
The internal scraper is of the plowing type, connected to the frame by two clamps. It is applied on the internal non-bearing side of the belt, adjacent to the return drum and facing the opposite direction to the travel direction of the belt.

The centering of the carpet is ensured by "donkey back" processing of the rollers in the head and by side anti-skid rollers.

Both the towing head and the return head, are made from a thick tube turned and complete with a through shaft, supported by frame with bearings. Both heads are rubber coated to ensure proper traction.

In correspondence of both heads, a tensioning system is mounted in order to always guarantee the correct tension of the belt and its centering.

The motorization is carried out on the head roller with a variable speed drive. The geared motor is directly keyed to the drum axis with fixing arm connected to the belt frame.



CHARACTERISTICS:

N° of units	n°	8 approx
Thick rubber mat	mm	9
Sides height	mm	250
Sheet metal thickness	mm	2
Head roller diameter	mm	239 rubberized
Head roller diameter	mm	219
Upper roller diameter	mm	89
Upper roller pitch	mm	1.500
Lower roller diameter	mm	104
Lower roller pitch	mm	3.000
Belt cleaning system	Yes	
Sheet metal closing lower	Yes	

Surface finishing

Sandblast, one anti-rust
layer +
two epoxy paint layers.

Support frame

Yes



Belt conveyors

Sorting belt conveyor



DESCRIPTION

The frame consists of profiles and folded sheets of adequate thickness (3 mm). The sides of the belt are made of sheet metal, thus hiding the entire carpet ring. The entire frame and side rails are made of carbon steel.

The sliding surface of the belt is made up of inverted C-profiles, alternating with steel stress rollers that rotate on ball-bearings with a dust and water seal. In the lower part the belt is supported by flat rollers rotating on sealed bearings.

The carpet is made of rubber with a strong thickness and is resistant to abrasion, oil and grease substances with a high thickness, 3 canvases in tergal nylon, 4 + 2 mm coating, tensile strength 315 N / mm.

The towing head is made from a thick tube turned and covered in rubber complete with a through shaft supported by supports with sealed bearings. The referral head was taken from a thick tube turned with the characteristics such as towing and provides the tension of the carpet from a threaded register with locknut. The through-shaft is in a keyed solution (and not welded) that allows easy replacement only of the shaft and not of the entire shaft / head assembly. The keyed solution also offers greater resistance to fatigue than the welded one.

The motorization is carried out on the head roller, with a variable speed drive. The geared motor is directly keyed to the drum axis with fixing arm connected to the belt frame.

If there is a magnetic separator mounted straddling the sorting belt, the section of the latter

underneath the magnet will be made of stainless steel in order to avoid damaging magnetization of the tape.

CHARACTERISTICS

N° of units	n°	7 approx
Sides height	mm	90
Sheet metal thickness	mm	3
Head roller diameter	mm	239 rubberized
Idler roller diameter	mm	219
carrying roller diameter	mm	60
carrying roller pitch	mm	2.300
Lower roller diameter	mm	60
Lower roller pitch	mm	2.300
Emergency system	Yes	
Start / stop buttons	Yes	For each sorting station
Surface finishing		Sandblast, one anti-rust layer + two epoxy paint layers.
Support frame	Yes	

