

# Bollegraaf



***Chain-belt conveyor***



**Bollegraaf. Big in making recyclables small.**

# The Bollegraaf chain-belt conveyor: more than a strong belt

**Bollegraaf Recycling Machinery has a lot of experience building chain-belt conveyors. It has been producing these conveyor belts for 40 years, in the form of feed belts for balers and conveyor belts for sorting installations. Heavy steel construction assures that the chain belts last a long time.**

## Unique construction (patent pending)

The gripper, rubber transport belt, carriers and transport chain form a unique assembly. The chain is a hollow-bolt chain. The carriers, with a sleeved profile, are screw-mounted on the chain by bolts that pass through the hollow-bolt chain. The carrier ends are provided with special shaped plates that, together with the side panels, form a labyrinth seal. The rubber screen is found between the drivers and the carriers. The drivers are mounted on the carriers by self-tapping bolts. A fully-automated machine, which assembles conveyor belts, puts the whole assembly together.

## High quality

Automated, computer-controlled machines manufacture all components of the chain-belt conveyor. The drilling and sawing are done by a CNC-controlled drilling and sawing line. Plate sections are cut on a CNC-controlled automated oxygen cutting machine, and a welding robot is used to weld all steel components. A fully-automated belt assembly machine puts it all together. The whole automated production process ensures highly consistent quality.

## Solid construction

The whole assembly of the chain-belt conveyors is of solid construction. The side panels consist of 3 mm (1/8") plate steel strengthened by stiffening ribs. The tracks of the conveyor chains are made of specially set U-shaped profiles. The panels are mounted on the belt construction UNP160 sections.

## Two versions

Bollegraaf makes two versions of the chain-belt conveyors: a heavy one and a very heavy one! The heavy version has, on either side of the rubber screen, two heavy chains with a pulling power of 12,000 Pound. and a pitch of 101,6 mm (4"). The chains stand out for their very long operational life because the rollers of the chains are made of sintered steel. Sintered steel ensures good lubrication of the rollers. The very heavy version has, on either side of the screen, two heavy chains with a breaking strength of 24,000 Pound. and a pitch of 152,4 mm (6"). The chain has rollers with a diameter of 67 mm to ensure a long operational life. Chain-belt conveyors of at least 25 meters long use the very heavy chain that must be able to take heavy loads, for instance, hauling heavy materials, operating at high speed or for long periods of time.

## Many options

The chain-belt conveyors are available in many different widths from 800 to 2.000 mm (2'7" to 6'7"). The chain-belt conveyors can move things diagonally as well as horizontally. The chain-belt conveyors are available in different speed configurations, either as conveyor belts for sorting installations or feeder belts for balers. Different side walls heights are also available, from 300 mm to 2.500 mm (1' to 8'2").



▲ The patented labyrinth seal prevents the chain from getting dirty.



▲ Motor is equipped with a gear assembly (variable speed) mounted directly on the shaft, hung shock-proof on rubber 'silent blocks'.



▲ Belt buckle with wear strips that can be changed (replaced) easily.



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## Technical specifications

	HBT 600	HBT 1200
<b>Pulling power chain</b>	12000 Pound	24000 Pound
<b>Pitch chain</b>	101,6 mm (4")	152,4 mm (6")
<b>Roller diameter chain</b>	47,6 mm (1 7/8")	66,7 mm (2 5/8")
<b>Roller width chain</b>	17,8 mm (3/4")	24,0 mm (1")
<b>Drive</b>	mounted directly on shaft	
<b>Number of teeth chain wheels</b>	12	8
<b>Diameter drive axle</b>	60 of 70 mm (2 3/8" of 2 3/4")	90 mm (3 1/2")
<b>Diameter reverse axle</b>	60 mm (2 3/8")	60 mm (2 3/8")



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