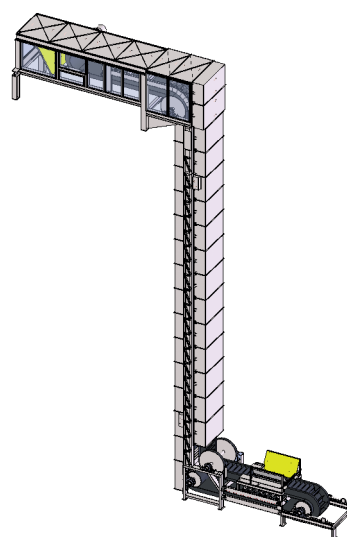




## FLEXOWELL TYPE CONVEYOR





## Application

The Flexowell type conveyor is one of the most universal and reliable solutions for vertical and horizontal transport. It has been successfully applied for different type of solids and organic materials. Conveyors of this type widely used in many technological lines are a perfect solution in case of necessity to significantly reduce space required for material handling systems. Thanks to use of specially designed pockets, the belt is irreplaceable in terms of noise reduction.

## Design and principles of operation

The construction of the conveyor consists of three basic parts: bottom station, top station and vertical section.

The main parts of the bottom station (loading station) are a tensioning unit equipped with a return drum and a set of feeding rollers, and two deflection discs, responsible for changing direction of the belt from horizontal to vertical and vice versa. In addition, the bottom station is equipped with scrapers to prevent contaminants from getting under the drums, end switches used to monitor belt misalignment and a drum rotation sensor.

The vertical section consists of segments, the number of which depends on the height of the conveyor. The outer shell is designed in such a way to ensure the tightness of the conveyor and safe operation. At the customer's request, the vertical section can be equipped with inspection hatches.

The upper (unloading) station consists of a rubberized drive drum, on which the drive of the conveyor is installed, the cleaning drum, the deflection disc and a set of rollers. On the upper station there are also belt misalignment installed. In order to enable an easy access two platforms, one for operating the drums, rollers and deflection disc, the other for operating the steering wheels are mounted.

The key part of the Flexowell conveyor is a special belt design with pockets for vertical material transport. Standard belt sizes range from 400 mm to 2000 mm wide. The size of the belt depends on the specification of the transported material and working parameters.

## Technical specification

CONVEYOR BELT TYPE	–	selected individually
WIDTH OF THE CONVEYOR BELT	mm	400 – 2 000
DIAMETER OF THE DRIVE AND THE RETURN DRUM	mm	200 – 2 500
HEIGHT OF THE VALANCE	mm	400 – 630
TRANSPORTED MATERIAL	–	Bulk materials, waste, organic materials
SPACING BETWEEN POCKETS	mm	It depends on the material fraction
SPEED OF THE CONVEYOR BELT	m/s	0,5 – 8
MAXIMUM VERTICAL LIFTING	m	> 100 m