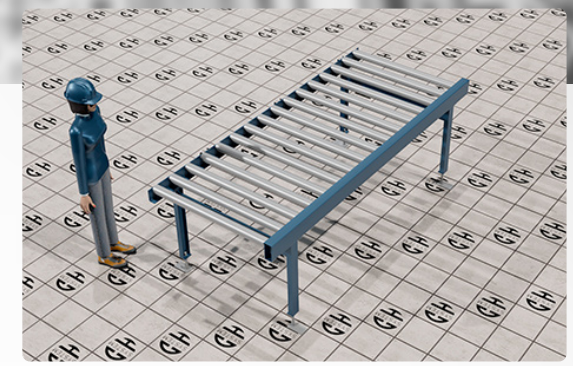
CH·SYSTEM

Roller Conveyors

– with timing belt drive



For transport with high speed, low noise and high precision

Roller conveyors with belt drive are often used for swift product transport.

The conveyor design is standardized and modelized to meet the maximum and minimum product(pallet) size and weight.

The roller diameter and pitch is selected from our standard product range together with the robust steel frame, supports and motor-frame.

The rollers are equipped with double bushings in one end and are driven by toothed timing belts from roller to roller.

The drive system is covered by a closed steel guard protecting it from dust and particles.

The complete steel frame is designed for heavy duty application, long lifetime and minimum maintenance

Details:

- Each roller has 20 mm diameter ball bearing that is lifetime greased.
- Steel structure is powder coated to the client color requirement.
- Energy-efficient gearmotors from SEW or Siemens depending upon client's requirements.
- Any type of sensor or photocell can be mounted for start/stop.
- Ready for integration with CH standard angular transfers.
- Any type of communication with frequency inverter
- Each conveyor will have a Declaration of Incorporation of partly completed machinery.
- The conveyor is inherently safe can be installed without any fencing.

Specifications:

The below values apply to our standard conveyors. Variations and special designs are possible

Load	200 Kg/meter
Length	Up to 6.000 mm
Height (motor installed below)	From 400 mm
Height (motor installed on side)	From 120 mm
Conveying speed (depending on product)	Up to 45 m/min. Optional with variable with frequency inverter
Roller diameter	50,76 mm
Roller pitch in mm	From 100 mm
Temperature environment	-20/+50 °C
Adjustable height in mm	± 50
Motor (IE3/IE4)	SEW EuroDrive or Siemens

Optional:

- Food safety version with lifetime greased bearing and smooth surface easy to clean.
- Stainless steel rollers for direct contact with food products.
- Variable speed with frequency converter from MoviMot or Siemens.

Special features:

Coating of the rollers, different spacing (pitch) between rollers, stop plates, alignment unit, side guides, vertical side belts, angular transfer with lift, build-in turning cross, cut-out in conveyor frame in non-driven side for robot gripper, plastic cover for easy inspection of drive chain.