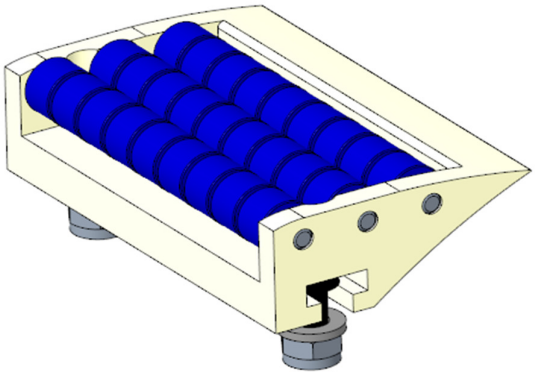
Transfer plates

Transfer plates are used between conveyors for low-friction product transfer to avoid tipping. The plate is designed to operate with a standard sprocket size, with up to 32 teeth.

Multiple roller plates side by side can adapt to various belt widths. Each plate has a width of 85 mm and is optimized to operate with belt pitches smaller than or equal to 1’’.



Availability

Chassis or body material	Roller material
PA12	POM (Other materials on request)

16 mm screws M6 with nut and washer are included (INOX)

Installation

The plate is fixed with screws on both sides of the plate. The slots for the screw head permit sideways adjustments of the plate. Once the position is fixed, the screws are tightened with a hexagonal socket screw key no. 4, with a max torque of 2.5 Nm. Access to the screw heads can be created by moving the rollers to one side of the plate. The screw should be at least 8 mm long. The maximum size of the screw depends on the sprocket and belt combination.

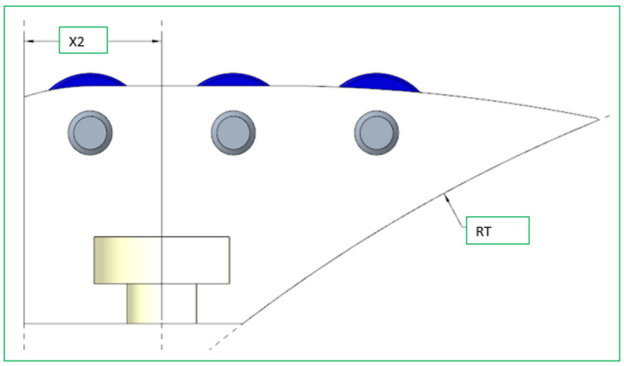
For small sprockets, it is possible to use washers and nuts. For bigger sprockets (over 20 teeth for a pitch >0.5’’) we advise using a threaded steel plate at least 3 mm thick. The roller level should be at the same height as or lower than the top of the previous belt (belt no.1) in terms of product flow. According to the same rule, the level of the next belt (belt no.2) should be slightly below the roller level.

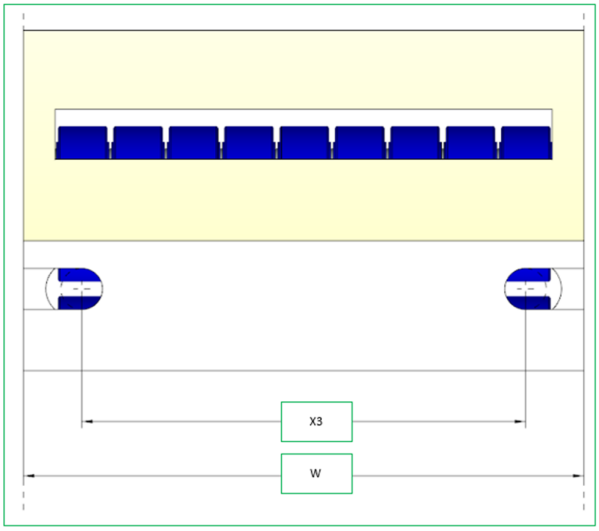
Dimensions	X1	X2	X3	W	RT	HT	HM	HS	RS	L	T
mm	*	12.5	$67.3^{+0.5}_{-0}$	85	140	22.7	*	*	*	2	*
inch	*	*0.5*	$2.65^{+0.5}_{-0}$	*3.35*	*5.5*	*0.9*	*	*	*	*0.1*	*

*Values depend on the sprocket and belt combination. See formulas in the example next page

Drawings

Side view and bottom view (right)





Configuration: 90° transfer with 1’’ pitch belt

- Represented belts: M26xx
- Represented sprocket: M26 S24
- Data available in the sprocket datasheet
  - RS = D p / 2
- Data available in the belt datasheet
  - HM

X1 and HS can be calculated with the equations:

- X1 = RS x 0.256 + HM x 2 + 52.5 (+/- 2%)
- HS = RS + HM – 1 (+/- 2%)

Please note that both equations need metric values.