



Idlers

An idler can either be individual wheels on a common shaft or a tubular roller. See Figure 1 and 3.

Idler used e.g. in oven lines is designed with the bearings outside the oven.

Rollers in steel, rubber coated steel or plastic are available.

For noise reduction at high belt speeds and for increased friction for improving rotation, rubber discs are fitted to tubular rolls. When sticky materials are handled, rubber discs with rounded cross-sections on tubular rolls are preferred to support the return strand. Fig 2.



Fig. 1



Fig. 2

Generally, the length of the support idlers should be 100 mm narrower than belt width. Idlers should be reasonably balanced.

Idlers in break-points should be 50 mm wider than the belt width to avoid stress in the belt edges.

The load on the belt, belt weight and speed determine the number of the idlers. See Calculation of the Conveyor unit.

Idlers with individual wheels on a shaft are often used in conveyors with low material weight on the belt. The shaft is corrosion resistant with plastic wheels mounted on the shaft. See fig. 3

To determine the number of idlers with individual wheels on a shaft the same rule as for tubular roller is used. See Calculation of the Conveyor unit.



Fig 3.

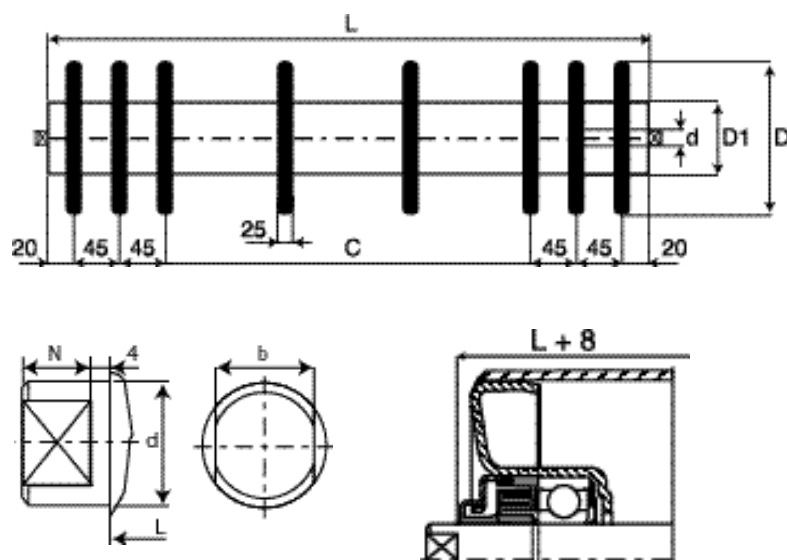
EXAMPLES OF USE

Steel roller	Bake ovens, frying ovens etc. Break-points. Loading- and discharging places
Steel roller with rubber coating	Bulk conveyors, passenger conveyors. Break points. Loading- and discharging places.
Steel roller with rubber disc	Bulk conveyors. Bake ovens (Return strand) Piece goods conveyors.
Plastic wheels	Coolers, Freezers, Worktables



Tubular roll - with or without rubber discs

Belt width	L	C	D1	d	b	N	D
600	500	2 x 140	63	20	14	9	108
800	700	4 x 120	63	20	14	9	108
1000	900	5 x 136	63	25	18	12	108
1200	1100	7 x 126	63	25	18	12	108
1500	1400	9 x 131	63	25	18	12	108



Plastic wheels on shaft

Belt width	L	D	b	d	Number of wheels
600	600	100	40	25	5
800	800	100	40	25	6
1000	1000	100	40	25	7
1200	1200	100	40	25	8
1500	1500	100	40	25	10

