

ROLLERS

SERIES 3500 HEAVY

Fixed drive conveyor roller



Application area

Particularly suited for driven transport of heavy materials that require a small roller pitch, such as pallets and steel containers.

Very robust design

Welded steel sprockets and steel tube with a dimension of 60 x 3 mm enable reaching a high mechanical stability of the conveyor roller. To achieve a high axial load capacity, the bearing housing opposite of the drive side is not only pressed into the tube, but also flanged.

High load capacity

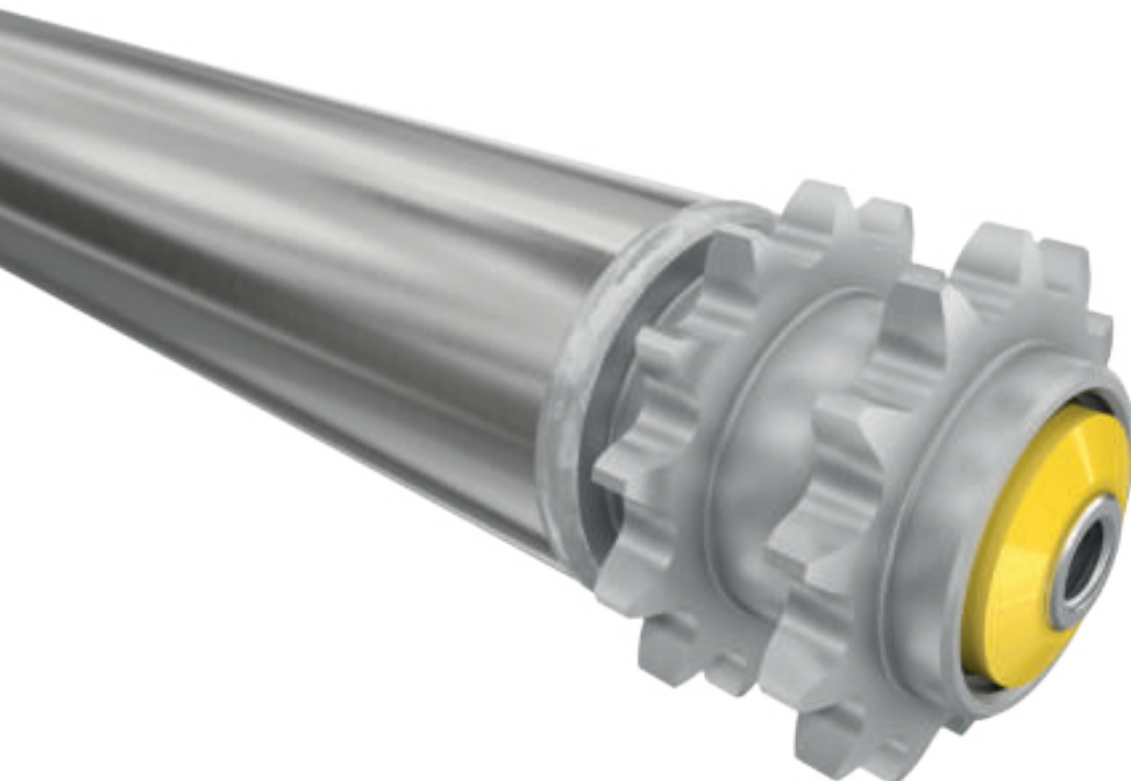
A stable, continuous female threaded shaft with \varnothing 17 mm ensures a high degree of reinforcement of the conveyor. Reinforced precision ball bearings of type 6003 are used. A corresponding small roller pitch is possible for the transport of very heavy goods.

High corrosion protection

After the welding process, the components consisting of tube, sprockets and flanges are individually zinc-plated, thereby achieving a high corrosion protection.

Lateral loading

The tube ends opposite the drive side are rounded, thereby allowing materials to be easily moved on from the side. Axial forces are removed through ball bearings and seals.





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Technical data

| General technical data | |
|------------------------|---|
| Platform | 1700 |
| Max. load capacity | 3000 N |
| Max. conveyor speed | 0.5 m/s |
| Anti-static version | Yes (via sprocket head) |
| Temperature range | -5 to +40 °C |
| Material | |
| Tube | Zinc-plated steel, stainless steel |
| Shaft | Uncoated steel, zinc-plated steel, stainless steel |
| Bearing housing | Polyamide, RAL9005 (jet black) |
| Drive head | Uncoated steel, zinc-plated steel, stainless steel |
| Seal | Polyamide on drive side in RAL1021 (rape yellow) |
| Bearing version | Precision steel ball bearing 6003 2RZ, precision stainless steel ball bearing 6003 2RZ, bearing play each C3, greased |

Design versions

| | |
|----------------------------|--|
| Tube sleeves | PVC sleeve (page 22) PU sleeve (page 24) Lagging (page 25) |
| Anti-static version | (< 10 ⁶ Ω) Standard design for rollers with grooves or tube sleeves |
| Tube | The following are available in addition to the variants listed in the load capacity tables: <ul style="list-style-type: none">• With flanges welded on |

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Load capacities of series 3500 heavy with screw-connected installation

The load capacity table refers to a temperature range of +5 to +40 °C.
Valid for the following shaft designs: female thread or male thread.

Bearing: 6003 2RZ.

| Tube material | Ø Tube/ thickness [mm] | Drive element | Ø Shaft [mm] | Maximum static load [N] for installation length [mm] | | | | | |
|---------------|------------------------------|---|-----------------|--|------|------|------|------|------|
| | | | | 200 | 900 | 1000 | 1100 | 1300 | 1500 |
| Steel | 60 x 3 | Welded steel sprocket head 1/2", T14 | 17 | 3000 | 3000 | 3000 | 3000 | 2135 | 1600 |
| | | Welded steel sprocket head 5/8", T13 | | 3000 | 3000 | 3000 | 3000 | 2135 | 1600 |
| | | Welded steel double sprocket head 1/2", T14 | | 3000 | 3000 | 3000 | 3000 | 2135 | 1600 |
| | | Welded steel double sprocket head 5/8", T13 | | 3000 | 3000 | 3000 | 3000 | 2135 | 1600 |

T = Number of teeth

Dimensions

A sufficient axial play is already taken into account, so that the actual lane width between side profiles is required. The dimensions of the conveyor roller depend on the shaft version and the drive element.

Ordering dimensions for tube sleeves, e.g. PVC sleeves, see page 23, and for flanges see page 27.

RL = Reference length/ordering length

EL = Installation length, inside diameter between side profiles

AGL = Total length of shaft

U = Usable tube length: Length without bearing housing and for flanged metal tube without length of flanging

| Ø Tube [mm] | Tube material | Ø Shaft [mm] | Drive element | EL [mm] | AGL [mm] | U [mm] |
|----------------|---------------|-----------------|---|------------|-------------|-----------|
| 60 x 3 | Steel | 17 | Welded steel sprocket head 1/2", T14 | RL + 40 | RL + 40 | RL - 23 |
| | | | Welded steel sprocket head 5/8", T13 | RL + 36 | RL + 36 | |
| | | | Welded steel double sprocket head 1/2", T14 | RL + 62 | RL + 62 | |
| | | | Welded steel double sprocket head 5/8", T13 | | | |

T = Number of teeth

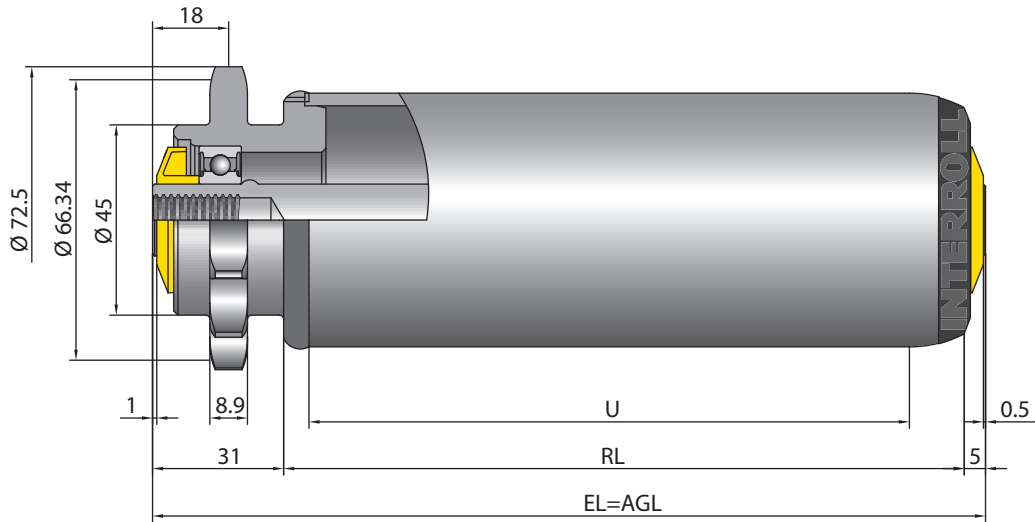


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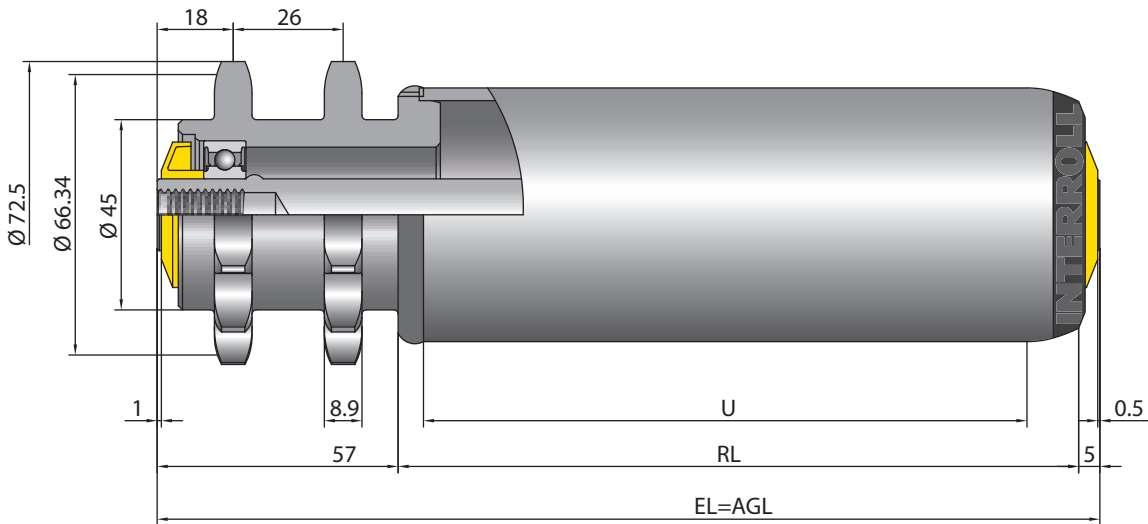
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Welded 5/8" steel sprocket head with 13 teeth



Welded 5/8" steel double sprocket head with 13 teeth



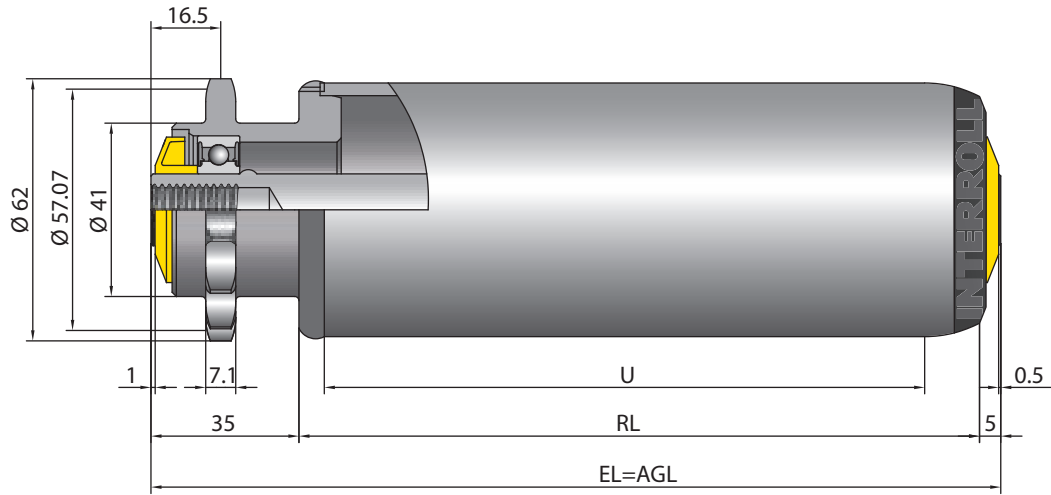
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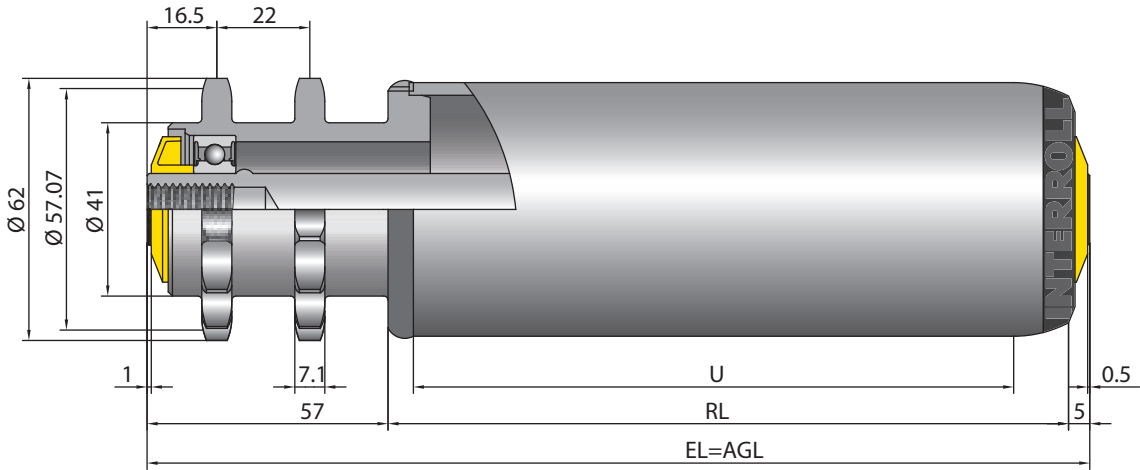
Fixed drive conveyor roller



Welded 1/2" steel sprocket head with 14 teeth



Welded 1/2" steel double sprocket head with 14 teeth





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