BASIC IDLER STYLES

- EQUAL TROUHHING IDLERS
- FORWARD TILTED IDLERS
- IMPACT IDLERS
- SELF-ALIGNING IDLERS (CTB)
- SELF-ALIGNING RETURN IDLERS (RTB)
- TRANSITION IDLERS
- BI-DIRECTION SELF-ALIGNING IDLERS (CTC)
- FLAT IMPACT IDLERS
FLAT IDLERS
RUBBER DISC RETURN IDLERS (RD-TYPE)
RUBBER DISC RETURN IDLERS (RR-TYPE)
SPIRAL URETHANE RETURN IDLERS
RETURN IDLERS
V-RETURN IDLERS
SIDE GUIDE IDLERS (GA)
SIDE GUIDE IDLERS (GB)
RETURN GUIDE IDLERS
**EQUAL TROUHING IDLERS**

With good true roundness and smooth operation, the elaborately designed carrying idlers have the advantages of low rotation resistance, long life, easy replacement and maintenance-free. In order to avoid the transverse displacement of belt, the forward tilted carrying idlers are preferred.

**FORWARD TILTED IDLERS**

Forward tilted carrying idlers are used to prevent the snake motion from high tension belt.

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Unit: mm
**TRANSITION IDLERS**

Adjustable carrying idlers are always installed at the loading point of drive pulley and tail pulley. The troughing angle should be adjusted according the specific transition design of the conveyor.

**AC1**

![Diagram of AC1 transition idler]

(5° ~ 25°)

**AC2**

![Diagram of AC2 transition idler]

(26° ~ 45°)

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**ADJUSTABLE CARRYING IMPACT IDLERS**

Adjustable carrying impact idlers are designed for transition idlers under loading area or suffered high-impact wear.

**AC1M**

![AC1M Diagram](image)

(5°~25°)

**AC2M**

![AC2M Diagram](image)

(26°~45°)

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Unit: mm
IMPACT IDLERS

Impact rollers are used to avoid the damage when the lumps and weights of material falling on the belt. It can also operate together with the impact bed.

**TYPE A**

**TYPE B**

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Unit: mm
RETURN IDLERS

The idlers are used as support for the return run of belt. Pay extra attention during installation to avoid belt contacting idler brackets of conveyor’s structures due to inferior training of belt. Moreover, check the belt cleaners with great care to avoid zigzag movement of belt caused by the remained grit on the belt wearing out idler’s surface.

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Unit: mm

The diagram illustrates the dimensions and components of the return idlers, including the support structure and the belt contacting areas. This visual aid helps in understanding the proper installation and maintenance procedures to ensure smooth operation and longevity of the conveyor system.
**FLAT IDLERS**

The idlers with optional skirt boards or rubber plates are used to convey bag or box cargos, such as bagged cement, boxed beer, and lump materials. Distance of idler set is generally dependent on the weight and volume of carrying materials.

### FA-TYPE

![Diagram of FA-Type Flat Idlers]

### FB-TYPE

![Diagram of FB-Type Flat Idlers]

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Unit: mm
**STEEL SPIRAL RETURN IDLERS**

Steel spiral return idlers possess good belt cleaning function to avoid bulk material adhering on the belt.

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**SPIRAL URETHANE RETURN IDLERS**

Urethane spiral return idlers are designed to provide belt cleaning function by removing bulk material adhering on the belt by the spiral urethane. Wear-resistant urethane is adopted to clean the dirty side of the belt to avoid the belt damage without increasing of friction.

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**V-RETURN IDLERS**

V-return idlers, incorporating two smaller rollers, are designed to improve belt tracking for the belt on its way back to the loading zone after unloading.

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**Model Details**

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*Unit: mm*
**RUBBER DISC RETURN IDLERS (RD-TYPE)**

Rubber disc return idler (RD-TYPE) with high friction rubber rings that can prevent dust from going into the belt return side and avoid any material adhering to the belt surface.

**RUBBER CUSHION RETURN IDLERS (RR-TYPE)**

Rubber cushion return idler (RR-type) are designed to have better load-cushion capability but also providing some cleaning effect. This idler is preferred when handling wet, sticky or corrosive material.

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Unit: mm
**SUSPENDED CARRYING IDLERS**

Suspended carrying idler consists of three rollers and linked by a robust chain. This design leads to greater flexibility and large bulk materials. By achieving higher belt speeds, load capacity and lower containment, some proven benefits such as less shut down time, lower installation and maintenance costs can be obtained.

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Unit: mm
SELF-ALIGNING IDLERS (CTA)

Self-aligning carrying idler with two side-guide-roller attached to the trough bracket, provides required self-alignment of belt reliably for wider belt. The free-turn troughing idler keeps belt running on center of the conveyor. It is also effective due to some poor training of the belt or unavoidable belt misalignment.

CTA1

CTA2

Type CTA1 is recommended for BW900 and smaller BW but type CTA2 is recommended for BW1050 and larger BW.

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Unit: mm
SELF-ALIGNING IDLERS (CTB)

Self-training carrying idler style CTB is similar to CTA but having side-guide-roll attached to bottom frame. Higher training capability can be obtained due to more sturdy guiding effect.

Type CTB1 is recommended for BW900 and smaller BW but type CTB2 is recommended for BW1050 and larger BW.

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Unit: mm
SELF-ALIGNING RETURN IDLERS (RTA)

Self-aligning return idler type RTA, with similar function to type CTA on carry side, is designed for centering belt in the return run. Generally, type RTA idlers are installed every 15m.

RTA1

Type RTA1 is recommended for BW900 and smaller BW but type RTA2 is recommended for BW1050 and larger BW.

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**SELF-TRAINING RETURN IDLERS (RTB)**

Self-aligning return idler type RTB, with similar function to type CTB on carry side, is designed for centering belt in the return run. Generally, type RTB idlers are installed every 15m.

RTB1

Type RTB1 is recommended for BW900 and smaller BW but type RTB2 is recommended for BW1050 and larger BW.

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**BI-DIRECTION SELF-ALIGNING IDLERS (CTC)**

Bi-direction Self-aligning idler is designed for centering the running belt of reverse conveyor through troughing conical idler. By continuous adjustment of speed difference at various contact points of the conical idler roller, the running belt bias can be corrected successfully without any side-guide-roller.

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Unit: mm
SIDE GUIDE IDLERS

These idlers are designed to prevent sudden improper contact between belt and idler frame without any training effect on the off-center running belt. The idlers are generally supplementary set along carrying idlers to guide movement of the belt.

### GA- TYPE

### GB- TYPE

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Unit: mm
RETURN GUIDE IDLERS

The idler is designed to prevent sudden improper contact between belt and idler frame without any training effect on the off-center running belt. The idlers are generally supplementary set along carrying idlers to guide movement of the belt.

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