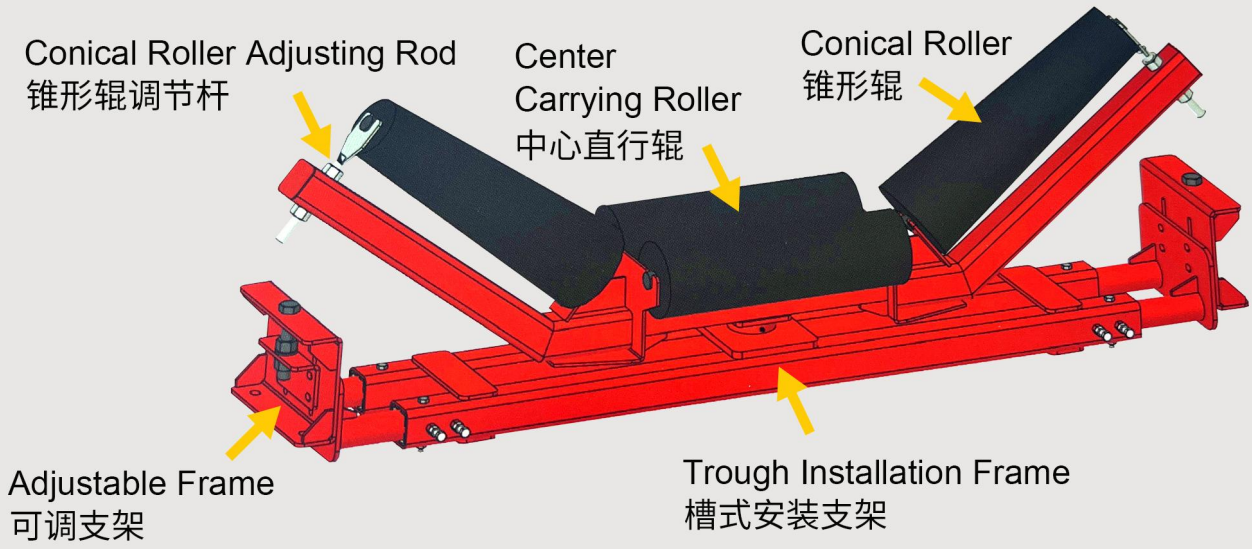
SHANDONG MINGYANG CONVEYOR EQUIPMENT CO.,LTD.

CONICAL CARRYING IDLER

AUTOMATIC DEVIATION CORRECTION SYSTEM

锥辊自动上纠偏系统



Principle of deviation correction 纠偏原理

The conical rollers on both sides achieve the correction function under load and heavy load conditions to activate our standard central pivot system. The conical rollers on both sides are designed with the most efficient contact range, and the adjustment angle range of the side conical rollers is 0-10 degrees. This design ensures that there will be no 90° contact with the belt edge. When the belt deviates from the center, the belt slides upward towards the side. The upward sliding of the conical rollers on both sides drives the conical rollers to roll, causing the deviation correction system to rotate on its internal pivot and return the belt to the center with the minimum force.

两侧锥形托辊实现负载和重载工况的纠正功能，以激活我们的标准中央枢轴系统。两侧的锥形托辊设计有最高效的接触范围，侧锥滚调节角度范围0-10度，该设计确保不会发生与带边缘的90°接触。当皮带偏离中心时，皮带向侧上滑动，两侧锥形辊向上滑动带动锥形辊滚动，从而使纠偏系统在其内部枢轴上转动，并以最小的力将皮带转回中心。

Core Advantage

核心优势

The conical rollers on both sides adopt the roller lagging system, which has the characteristics of high wear resistance and increased friction.

两侧锥辊采用托辊包胶系统，具有高耐磨，增加摩擦力的特点。

Always fit the belt, closely follow the running track of the belt , and correct it when there is slight deviation.

时刻贴合皮带，紧密跟随皮带的运行轨迹，在轻度跑偏时进行校正。

Eliminate belt edge wear problems.

杜绝了皮带边缘的磨损问题。

Fully sealed bearing.

完全密封的轴承。

Appearance Characteristics

外形特征

- **Center Carrying Roller:** Two rollers are taken as a group to support the middle part of the trough belt, ensuring that the conveyor belt passes smoothly on the deviation correction system. At the same time, when the conveyor belt passes through the center carrying rollers, it has a gathering effect.

  中心直行辊：采取两个一组支撑槽型皮带中部，确保输送带在纠偏系统上平稳度过，同时当输送带在通过中心直行辊时具有聚拢作用。

- **Conical Roller:** It adopts the design of different shaft diameters at both ends, which can realize the function of rotational differential speed. By adjusting the contact area and contact pressure with the conveyor belt through the up-and-down adjustment of the support bracket, the conveyor belt can be effectively corrected.

  锥形辊：采用两端不同的轴径设计，可实现旋转差速功能，通过支撑支架上下调节与输送带接触面积和接触压力，可有效纠正输送带。

- **Conical Roller Adjusting Rod:** It can be freely adjusted up and down to achieve the contact area and contact pressure between the conical roller and the belt, and reasonably adjust the deviation correction offset value.

  锥形辊调节杆：可上下自由调节实现锥形辊与皮带间的接触面积和接触压力，合理调节纠偏偏移值。

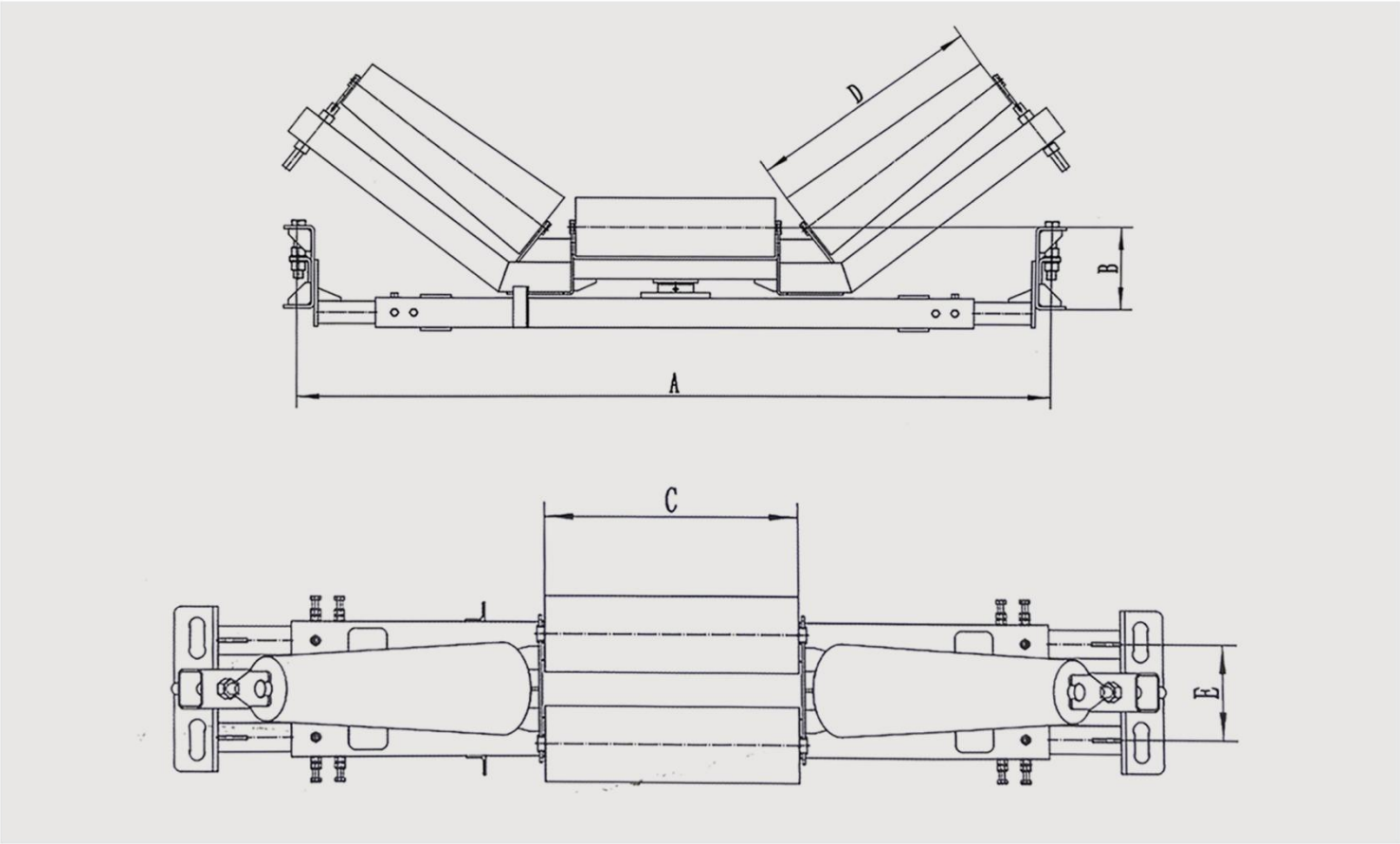
- **Trough Installation Frame:** Adopts high-strength profile welding processing to ensure reliable support and normal use of deviation correction system; The transverse adjusting frame can be adjustable according to the span size of different belt frames, and the installation is convenient. The uniquely designed aligning bracket distributes and supports the middle carrying rollers and conical rollers well.

  槽式安装支架：采用高强度型材焊接加工，确保可靠的支撑和纠偏系统的正常使用；横向调节支架根据不同皮带机架的跨度尺寸实现可调安装，安装便捷；独特设计的调心支架将中间直托辊及锥形辊良好分布及支撑。

- **Adjustable Frame:** Adjust the upper and lower positions of the trough automatic correction system and belt conveyor frame according to the working condition parameters, and securely connect with the belt conveyor, and achieve safe online adjustment function.

  可调支架：根据工况参数实现槽式自动纠偏系统与皮带机架上下位置的调整，并稳固的与皮带机联接，同时实现安全在线调节功能。

Technical Parameter 技术参数



Unit: mm

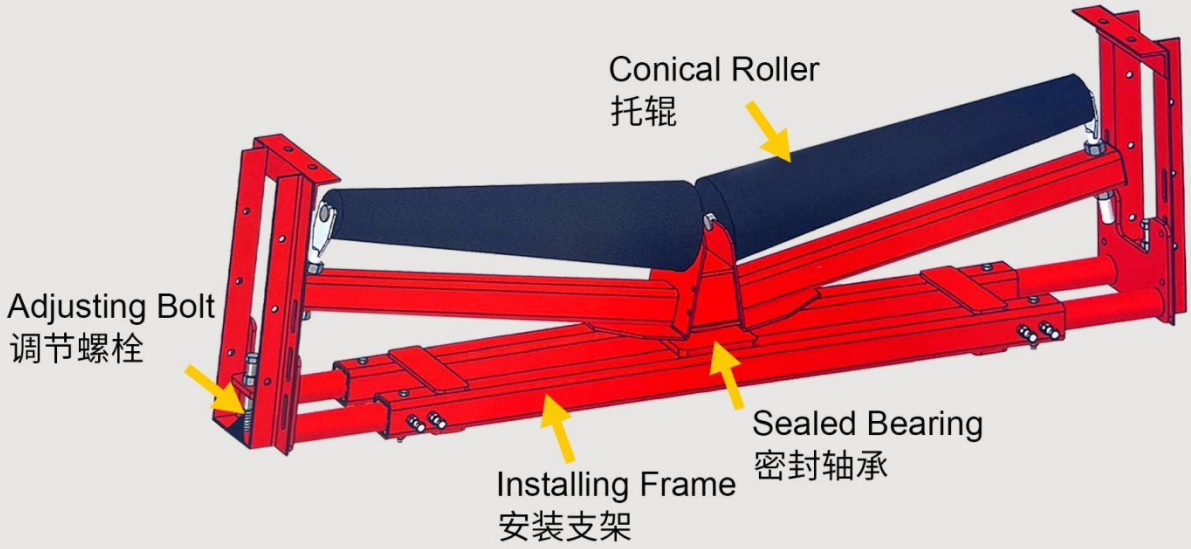
型号 Model No.	带宽 BW	A(中心距) Center Distance	B(中心高) Center Height	C(直辊) Carrying Roller	D(锥辊) Conical Roller	E(固定板中心距) Fixed Plate Center Distance
MYS01-800	800	1090	146-159.5	250	340	130
MYS01-1000	1000	1290	173.5-190.5	315	415	170
MYS01-1200	1200	1540	190.5-207.5	380	500	200
MYS01-1400	1400	1740	198.5-215.5	465	550	220
MYS01-1600	1600	1990	205-220	530	615	240

SHANDONG MINGYANG CONVEYOR EQUIPMENT CO.,LTD.

CONICAL RETURN IDLER

AUTOMATIC DEVIATION CORRECTION SYSTEM

锥辊自动下纠偏系统



Principle of deviation correction 纠偏原理

When the belt begins to deviate from the center, it makes contact with the tapered surfaces at both ends of the return roller correction system. When the belt moves on the taper diameter of the conical surface, the force will change, causing the return roller correction system to swing and rotate, thereby turning the belt back to the center.

当皮带开始偏离中心时，他与回程托辊纠偏系统的两端锥形面接触。当皮带在锥形面的锥度直径上运动时，受力将发生变化，导致回程托辊纠偏系统摆动旋转，从而将皮带转回中心。

Core Advantage

核心优势

Always fit the belt, closely follow the running track of the belt , and correct it.
时刻贴皮带，紧密跟随皮带的运行轨迹，在轻度跑偏时进行校正。

Eliminate belt edge wear problems.
杜绝了皮带边缘的磨损问题。

Reduce the problem of damage to the conveyor belt frame.
减少了输送带支架的损坏问题。

The surface of the roller is wrapped with rubber to increase the traction force.
托辊外表为橡胶包裹增加牵引力。

It can effectively prevent the longitudinal tearing of the conveyor belt.
可有效的防止输送带的纵向撕裂。

Designed to be durable and long-lasting, it can adapt to harsh environments. There is no vibration during rotation, and it features a maintenance-free characteristic.
耐久耐用的设计，适应恶劣环境，转动时无震动，具备免维护特性。

Appearance Characteristics

外形特征

- **Conical Roller:** It adopts the design of different shaft diameters at both ends, which can realize the function of rotational differential speed. By adjusting the contact area and contact pressure with the conveyor belt through the up-and-down adjustment of the support bracket, the conveyor belt can be effectively corrected.

  托辊：采用两端不同的轴径设计，可实现旋转差速功能，通过支撑架上下调节与输送带接触面积和接触压力，可有效纠正输送带。

- **Sealed Bearing:** The sealed bearing is installed in the middle bearing seat to support the operation of the roller while ensuring coaxial rotation.

  密封轴承：密封轴承安装于中间轴承座内，用于支撑托辊的运转，同时保证实现同轴向旋转。

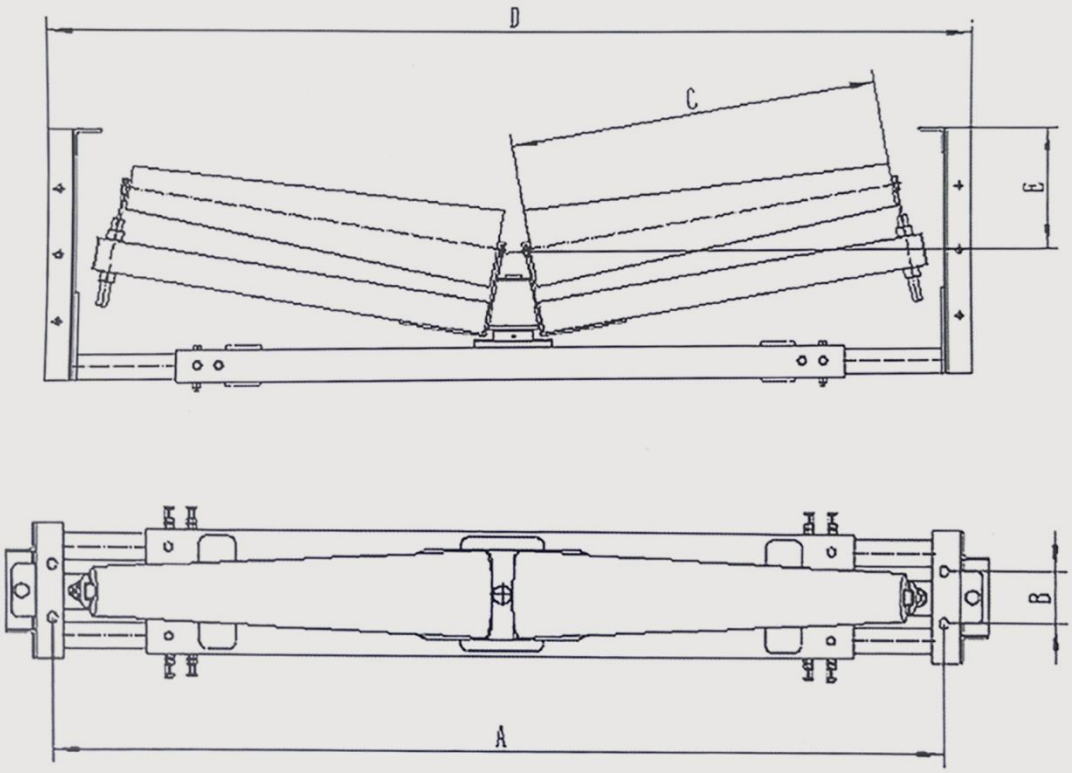
- **Installing Frame:** Adopts high-strength profile welding processing to ensure the reliable support and the normal operation of the deviation correction system; The transverse adjusting frame can be adjustable according to the span size of different belt frames, and the installation is convenient.

  安装支架：采用高强度型材焊接加工，确保可靠的支撑和纠偏系统的正常使用；横向调节支架根据不同皮带机架的跨度尺寸实现可调安装，安装便捷。

- **Adjusting Bolt:** Adjust the height of the roller, so that the roller better contact with the belt.

  调节螺栓：调节托辊高度，使托辊更好的接触皮带。

Technical Parameter 技术参数



Unit: mm

型号 Model No.	带宽 BW	A(中心距) Center Distance	B(固定板中心距) Fixed Plate Center Distance	C(托辊长) Roller Length	D(总长) Total Length	E(中心高) Center Height
MYS02-800	800	1090	90	445	1290	144.5-154-166.5
MYS02-1000	1000	1290	90	560	1490	164-176.5-189.5
MYS02-1200	1200	1540	90	680	1740	174-186.5-199.5
MYS02-1400	1400	1740	120	780	1940	184-196-209.5
MYS02-1600	1600	1990	120	880	2190	206.5-219.5
MYS02-1800	1800	2190	150	980	2390	216.5-229.5
MYS02-2000	2000	2420	150	2200	2620	226.5-239.5

LOWER ALIGNING ROLLER

下调心托辊

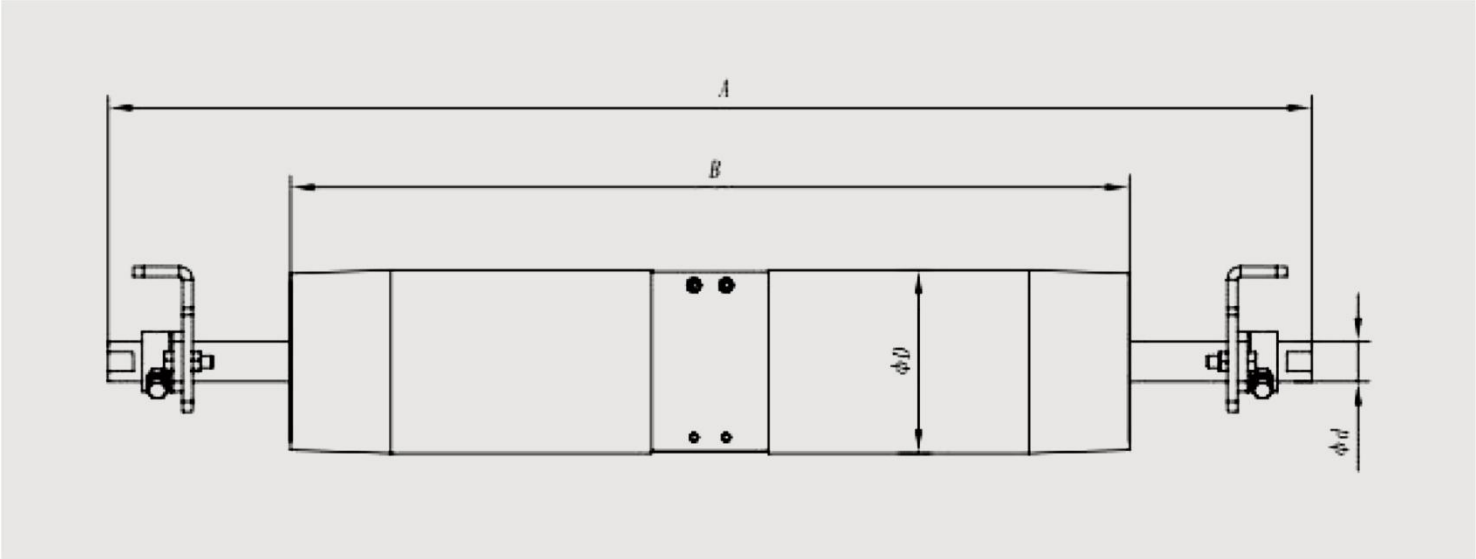
Detailed Description 详细描述

Installed on the return segment of the belt conveyor, behind the head roller. It can keep the belt in the trajectory range with high frequency. Compact and sealed structure and water & air tight enclosures.

安装在带式输送机的回程段，位于头部滚筒后方。它能够高频地使输送带保持在规定的运行轨迹范围内。结构紧凑且密封，具备防水和防尘的外壳。




Product Assembly Diagram 产品组装示意图



Technical Parameter 技术参数

Unit: mm

型号 Model No.	带宽 BW	尺寸A Size A	尺寸B Size B	尺寸d Size d	尺寸D Size D	重量 Weight
MYS03-650	650	1010	720	48	180	46
MYS03-800	800	1210	870	48	180	50
MYS03-1000	1000	1410	1070	48	180	56
MYS03-1050	1050	1410	1140	48	180	56
MYS03-1200	1200	1660	1270	48	180	63
MYS03-1400	1400	1860	1470	48	180	71
MYS03-1600	1600	2150	1690	48	180	92
MYS03-1800	1800	2350	1890	48	180	100
MYS03-2000	2000	2550	2090	48	180	137
MYS03-2200	2200	2750	2290	60	190	148
MYS03-2400	2400	2950	2490	60	190	160