

K-Flexiroller Flexible Conveyor Idler



The **K-Flexiroller** is a flexible idler comprising a steel cable made of wire of 180Kg/mm² with a breaking strength of 6600kg.

This metallic core, preformed and greaseless, is vulcanized together with the body of the idler in a single piece, this being its principal characteristic: there is no assembly between the cable, the shaft lining and the wheels.

Key Features:

- The belt adapts uniformly to the K-Flexiroller idlers.
- The K-Flexiroller idler has only two bearings, permanently auto-lubricated, and sealed in the ends of the idlers.
- Greater resistance to impact.
- The rubber is highly abrasion resistant.
- The K-Flexiroller idler is self cleaning due to the relative movement of the disc.

- It will not wear the belt.
- It assists with belt alignment.
- Due its excellent flexibility, the K-Flexiroller idler self-aligns and arranges to form a catenary, allowing the centring of the load, avoiding spillage over the belt edge.
- Greater capacity of load potential due to its trough angle (up to 45°).

Key Improvements:

- The K-Flexiroller is fully water-tight and its exclusive design avoids moisture penetration to the metallic core.
- Monobloc design of the body of rubber avoids the displacement of the wheels.
- Fewer moving parts reduces the potential for breakdowns and results in longer running life of the idler.
- Greater adherence to the belt.



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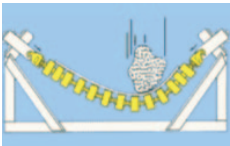
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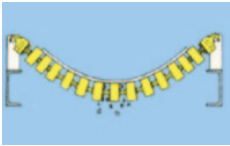


1. RESISTANT



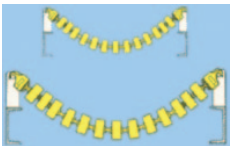
Chemical corrosion, impact. The K-Flexiroller idler accepts high impact loading by the soft rubber discs and the inherent flexibility of the idler itself. The addition of soft rubber blocks at each end can assist where extreme conditions prevail.

2. ELIMINATION OF MATERIAL BUILD-UP



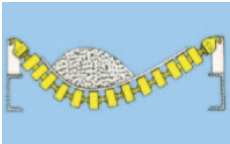
The flexibility of the discs together with the continual flexing action of the wire rope prevents material adhering and building-up on the discs. Freedom from material build-up avoids damage and prolongs belt life.

3. SAVING IN NUMBER OF IDLERS USED



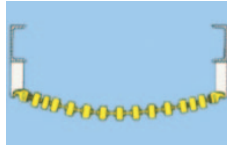
On average only 2 top K-Flexiroller is used on every 10 feet of belting which is significant saving over usual idlers.

4. BELT CENTERING AT FEEDING POINT



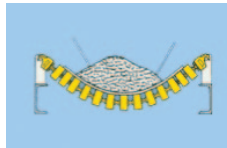
A belt supported by conventional three / five idlers will not correct even slightly off centre loading. The K-Flexiroller however centres the loads automatically, due to the bottom troughing point being on the same vertical line as the centre of gravity of the load.

5. BELT RETURN TRACKING



K-Flexiroller's natural troughing helps to track the belt on its return run. K-Flexiroller may be used on either the top or return run of the installation.

6. DEEP TROUGH LOADING



K-Flexiroller installed at 45° troughing angle at the loading area avoids necessity for skirt-boards, thus eliminating belt wear due to top cover cuts. The use of K-Flexiroller reduces space between drum "and first full" trough idler than is possible with conventional steel idlers.

7. QUICK INSTALLATION AND REMOVAL



Due to the unique hooks at each end of the K-Flexiroller idler, situated away from the belt edge, installation and removal is fast, simple and safe. Problems with spillage and corrosion can often make conventional idler removal difficult, if not impossible.



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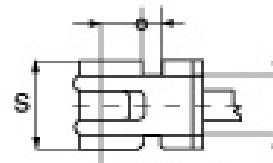
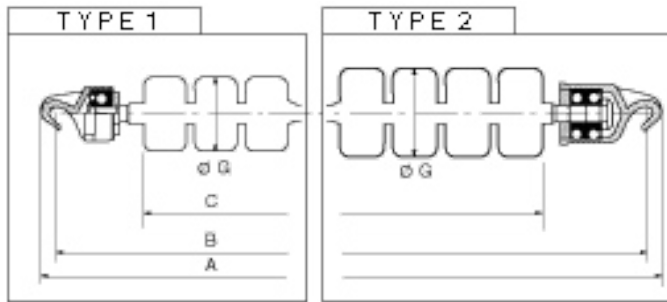
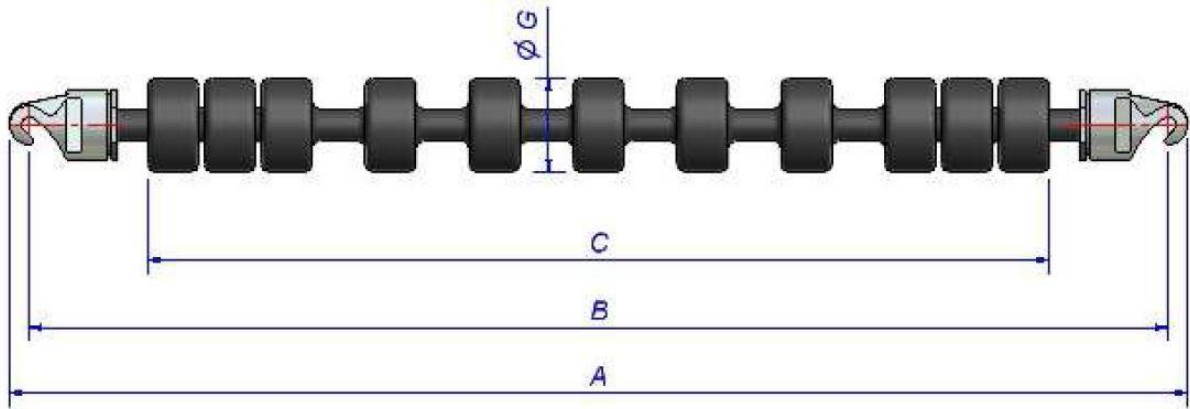
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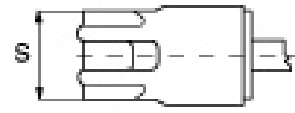
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TYPE 1



TYPE 2

Belt mm.	-A-	-B-	-C-	-G-	-S-	N° Discs	Type	Weight Gr.
400/16"	696	669	484	76	57	7	1	3.500
500/20"	797	772	584	76	57	9	1	4.000
600/24"	902	878	680	76	57	10	1	4.200
650/26"	952	928	738	76	57	11	1	4.500
700/28"	1.003	980	790	76	57	11	1	4.600
750/30"	1.055	1.032	840	76	57	13	1	4.700
800/32"	1.105	1.082	892	76	57	13	1	5.000
900/36"	1.205	1.182	992	76	57	15	1	5.600
1.000/42"	1.404	1.370	1.140	92	62	17	2	9.500
1.200/48"	1.554	1.520	1.298	92	62	19	2	10.300
1.400/54"	1.713	1.679	1.454	92	62	21	2	11.000



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