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## **WADE GUIDLERS & BRACKETS**

### **for Conveyor Belt Control**

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#### **The Problem:**

A new conveyor installation properly engineered and installed with the belt carefully strained, should and will give excellent service. However, it must be realised at the outset that in varying periods of time, many adverse conditions may develop which are inherent with the use of the system.

#### **Belt Damage can be caused by:**

1. The alignment of heavy duty conveyor systems is not always permanently stable, and accuracy may be lost in normal service.
2. These systems are often abused by excessive loading.
3. Conveyor belts are not always loaded evenly due to the nature of materials under conveyance.
4. Temperature variations and atmospheric conditions have a direct effect on the function of conveyors.
5. The material under conveyance may spill and deposit itself onto pulleys, shafts and bearings.

When these and other difficulties are encountered, a harmful effect is exerted on the conveyor belt itself which is a vital part of the system. The belt edges become damaged and once this happens, the belt deteriorates rapidly.

Various guiding systems have been employed in an attempt to control belts and lessen belt edge damage, those in most common use being straight-sided upright rollers.

These guide rollers, whether fixed or mounted on a pivoted base contribute to belt edge destruction because they offer only a single point contact area to the belt edge. After continued use the belt wears a groove in the rollers and becomes confined to the groove. This bends and destroys the edges of the belt until they are damaged beyond repair. The need for a better mechanical control system for belt guiding is obvious. For this mechanical control to be effective, it must increase the control area between the belt edge and the guide, and reduce the pressure on each square unit of the belt edge. At the same time the mechanism must have an axial movement for following the natural oscillations of the belt.

#### **The Answer:**

These requirements are all embodied in the "WADE GUIDLER", an ingenious invention that has already proven its worth in other parts of the world.

The Guidler employs a hyperbole in its design which, when tilted at the proper angle (30 degrees) to the plane of the belt edge, offers a revolving long line contact surface (up to 100mm) with the belt without damaging the surface.

The Guidler combines an axial movement with its revolving motion and this enables it to follow this normal lift motion of the belt while continuing to exercise perfect control over the belt edge.

Sealed bearings offer the longest life possible, however due to the rise and fall of the Guidler in use it will require period greasing via the greaser fitted.

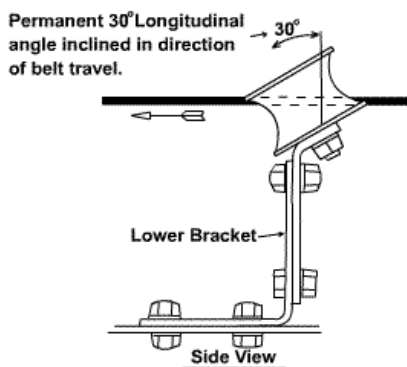
Guidlers can be introduced at any stage of the life of a belt. Installed with a new belt or with a working belt that is still in good condition, they act as an insurance against belt edge deterioration and considerably prolong belt life. Used with a belt that has already been considerably worn, they put off indefinitely the day when that belt would have to be replaced and they will even prolong the life of a belt that is practically ready for the scrap heap.



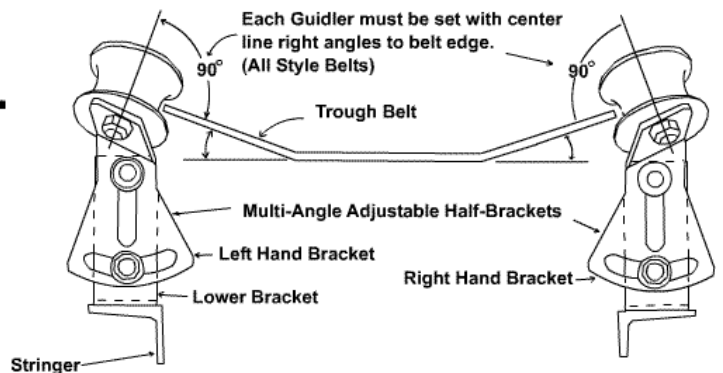
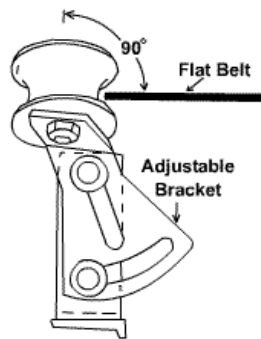
## **WADE GUIDLERS & BRACKETS** *for Conveyor Belt Control*

A recent addition to the Guidler product line is the adjustable Guidler Bracket. Made from heavy duty 6mm steel and Electro Plated for durability, these brackets allow the accurate angular adjustment of Guidlers to optimise the contact area and increase belt life. The brackets are sold singly in either a left or right handed configuration for use as a matched opposing pair. They come with fasteners for fastening the halves together and allowing adjustment but do not come with fasteners to attach to your framework.

Shown below are a Guidler Bracket assembly, a Guidler and also recommended mounting arrangements for both flat and troughed belts. (note photos are NOT to scale)



**Typical Guidler Mounting for a Flat Belt**



**Typical Guidler Mounting for Troughed Belt**