

KEIR

BackBone® Composite Flyer Bow

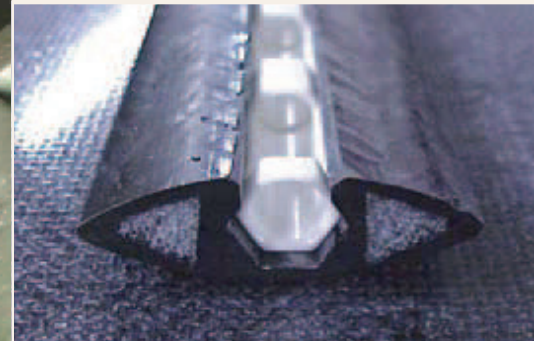
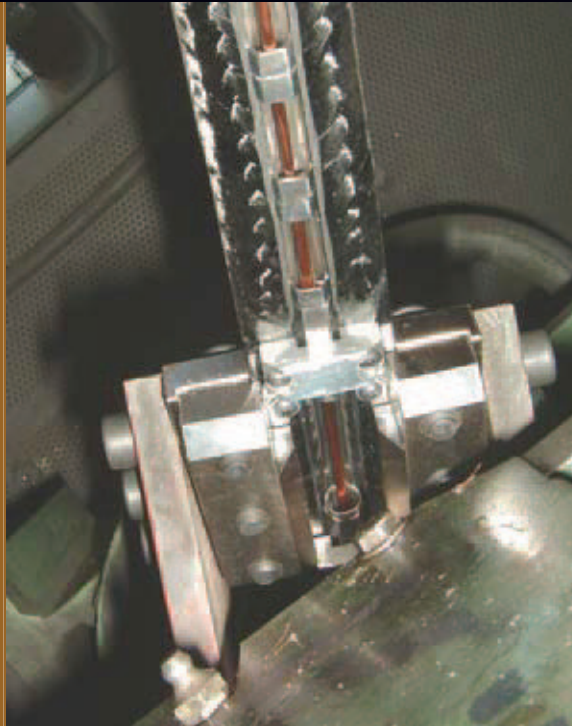
In 1990 Kamatics introduced a unique high-performance composite flyer bow by combining aerospace proven technology and a revolutionary tri-axial braiding process.

Since 2005 we have been offering a new innovative solution for wire processing, called the **BackBone® Bow**.

The **BackBone® Bow** is designed to incorporate all the positive features of an enclosed bow without any of the negatives associated with operating a tube or totally enclosed flyer bow. The semi-enclosed **BackBone® Bow** gives the customer increased reliability and performance needed in today's competitive environment.

Our wear bushing can be made of different material types for bare copper, aluminum, steel, plated and insulated wire processing. This unique hex design opens up the problem solving options not available with the standard wear strip and ceramic or carbide guide combination.

In March 2010 KEIR Manufacturing, Inc acquired the Wire Products Business Unit of Kamatics.



Features:

- Improved bow strength (no holes)
- I-Beam construction for significantly improved bow stiffness
- Wire is out of the air stream
- Bow shaped like a wing for improved aerodynamics and low cw factor
- Wear bushings can be changed while bow is mounted on the rotor
- Wear bushings can be ceramic, steel (58-60rc) and other materials or coatings
- Wear bushings improve support of difficult to make products
- No wire pinching between guide and wear strip

Benefits:

- Lower power (amps) consumption and noise
- Higher TPM
- Reduced bow breakage
- Improved wire quality
- Increased life on wear surfaces reducing downtime and maintenance
- Easy assembly and change out of wear bushings

BackBone® Composite Flyer Bow
A product of **KEIR Manufacturing, Inc.**

www.BackBoneBows.com



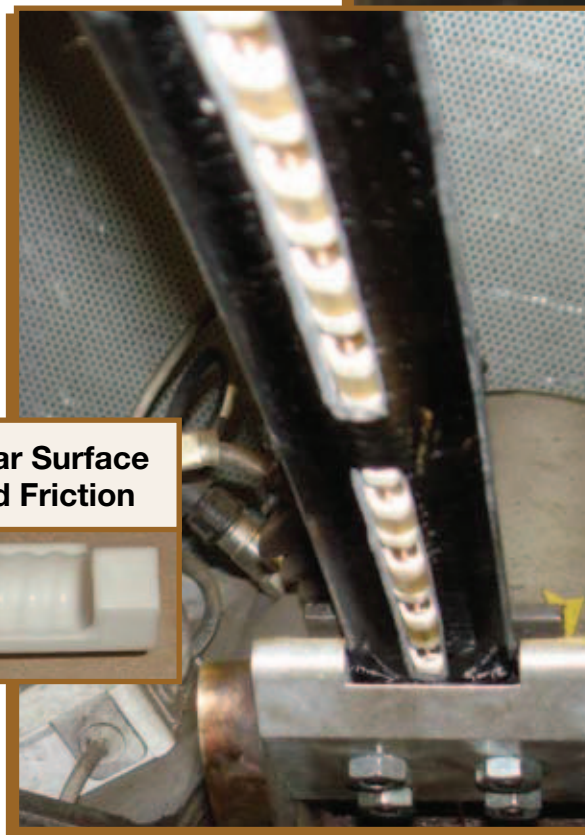
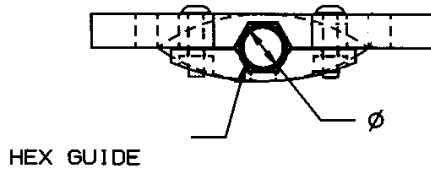
BackBone® Wear Bushings

Material Options:

- (S) Hardened Steel (58-60 Rc Polished to 4-8 Micro)
- (C) Ceramic 99% (Polished to 4-8 Micro)
- (T) Tungsten Carbide (Polished to 4-8 Micro)

Ø Sizes [mm]

- .165 [4.2]
- .245 [6.2]
- .345 [8.7]
- .430 [11.0]
- .450 [11.4]
- .930 [23.5]



**Dimpled Wear Surface
for Reduced Friction**



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US Patent #7,165,387,
#6,233,513, #5,809,703
and Other International Patents Pending