



4B Components Ltd.  
729 Sabrina Drive  
East Peoria, IL 61611  
USA

A Worldwide Manufacturer of:  
High Quality, Technologically Advanced  
Material Handling & Electronic Components

For Sales or 24 Hour Technical Support: 309-698-5611

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BETTER BY DESIGN

## DON'T WAIT UNTIL IT'S TOO LATE!



### 4B's Testing & Commissioning Service

Have you tested your hazard monitoring equipment recently? Nearly every plant has potential hazards from hot bearings, belt misalignments, and belt slippage. While 4B's hazard monitoring systems are designed to be fail-safe, periodic testing is recommended. To ensure that you don't have problems during the busy harvest season, contact 4B today!

4B's Tech Team provides an inspection and testing service to examine all of your 4B hazard monitoring equipment. A technician will inspect and document every 4B sensor and control unit on site, and verify that the system will alarm and shutdown equipment as expected.

To make an appointment with the 4B Tech Team, give us a call at 309-698-5611.



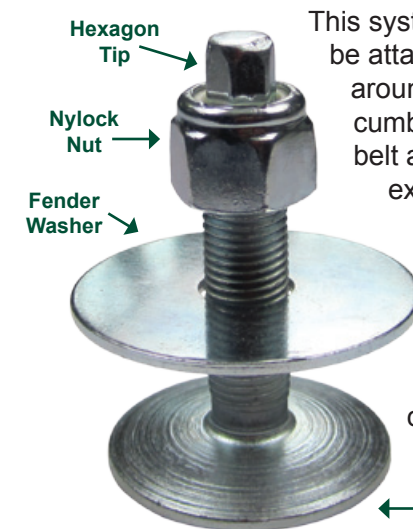
4B Components, Limited - East Peoria, IL 309-698-5611

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### Pneumatic Ratchet Makes Easifit Bolt Installation Even Easier

The pneumatic ratchet tool from 4B Components makes installing Easifit elevator bucket bolts even simpler than before. Unlike other anti-rotation bolts such as fanged or pronged styles, the Easifit bolt with pneumatic ratchet tool makes elevator bucket installation easier, safer and without the risk of belt damage.

Other styles of anti-rotation bolts such as fanged or pronged bolts risk damage to the elevator belt as their protrusions penetrate the belt covers and carcass. The Easifit bolt does not suffer this drawback because there is nothing to tear into the belt. The head of the Easifit is smooth and domed for "sinking" into the belt cover without causing any belt damage. Anti-rotation is provided by the tool which "locks" on to the bolt's hex tip. When used with a nylon inserted (Nylock) nut, this becomes an extremely secure fastener which will not come loose due to usual belt vibration or elongation.



Easifit Elevator Bolt

This system is especially popular for repair jobs where the bucket must be attached on to an existing installed belt. In this case, reaching around to the back of the belt and inserting replacement bolts can be cumbersome. Once the replacement Easifit bolt is inserted through the belt and bucket, the entire fastening operation can be conducted from the exposed front of the belt and inside the buckets. There are no fangs to set or the problem of elongated bolt holes that can no longer accept the square shoulder of the Norway style bolt.

There are both manual and pneumatic versions of the tool. The more recent pneumatic ratchet tool makes tightening the lock nut speedy and effortless. The result is an extremely secure bolt and nut coupling set which can be swiftly installed in awkward places.



Easifit Pneumatic Ratchet Tool

Easifit Installation Video - [www.go4b.com/easifit](http://www.go4b.com/easifit)

## EMPLOYEE PROFILE

### Carl Swisher



#### Carl Swisher Sales Manager - Material Handling Products

I joined 4B Components this summer and am very excited about promoting their lines of elevator buckets, belting and bolts. These products are intelligently designed and offer features that the competition cannot match.

My professional background has always been in sales, which has allowed me to travel all over the United States and to many foreign countries. My experience in product distribution is quite varied, as it ranged from scientific instrumentation, to industrial sewing machine parts, and now to bulk material handling components. Prior to joining 4B, I had a leadership role with a company offering similar material handling products.

I grew up in Arlington VA, where my father was a Patent Examiner for 35 years. I moved to St. Louis, MO to attend college and have called the area home for the last 20 years. My wife Rhonda and I have three teenage boys. Our home is located in a rural area, so we have a large vegetable garden and a flock of chickens that wander the yard.

I hope that you will look for me at an industry event in your area.

## 4B Distributor Award Presentation - Meier Sales



Pictured from Left - Johnny Wheat, Al Meier and John Meier

4B SVP – Johnny Wheat presents “4B’s Outstanding Sales Award” to Al and John Meier during the GEAPS Product and Services Show in Minneapolis in April, 2011.

Meier Sales has been a master distributor for 4B for over 20 years and they have many close customer relationships in and around Minnesota. With their straight forward message “You Want It I got It, You Need It I Get It” lets their customers know that they can always count on Meier and their partnership with 4B for all their Material Handling and Electronic Component needs.

## SPARKY'S SHOCKERS

## Wireless Communications

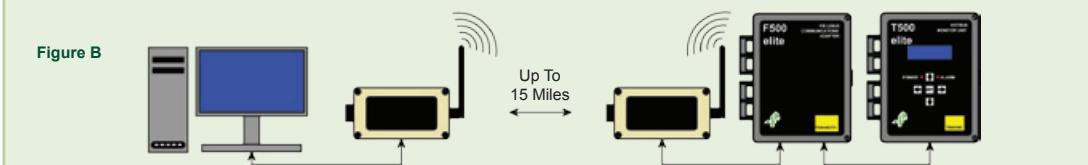


#### Brian Knapp Technical Manager - Electronics

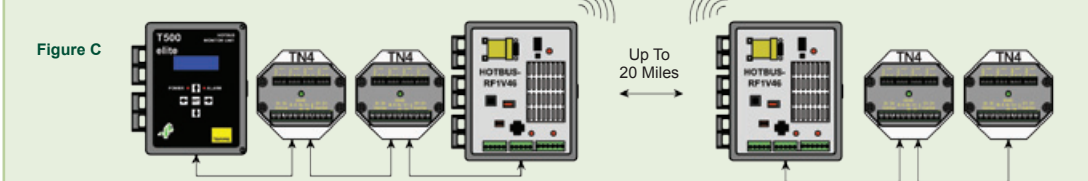
Monitoring for machine bearing temperature, belt speed, belt alignment and plug conditions are vital safety issues in facilities today. When considering the layout of a new or expanding an existing hazard monitoring system, there can often be challenges with determining how to economically run a communications cable from one point to another. While we feel that copper wire is often the most reliable solution, it may not always be the most feasible or economical. That is why we offer wireless solutions that can save you time and money on

installation, in addition to providing monitoring on equipment that is impossible to monitor any other way, like belt trippers.

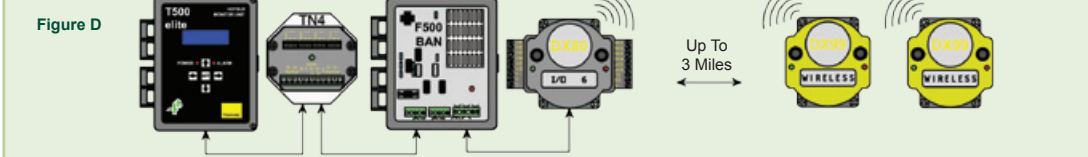
For example, you may have a Watchdog™ or Hotbus™ hazard monitoring system across the street from the main office and you would like to monitor its data with 4B's logging & trending software or through your own PLC system. Instead of trenching or trying to go overhead with conduit and cable, you can install our industrial 4 wire RS-485 (Figure A) or ethernet wireless radios (Figure B) to accomplish the task.



You can use our 2 wire RS485 radios to act as a substitute for wire and conduit from the ground to the top of an elevator leg (Figure C).



On moving equipment, such as trippers, you can use battery powered wireless nodes with the Hotbus system (Figure D).



All of the radios can be arranged as point-to-point or point-to-multipoint networks and use 900 MHz for superior range and penetration through obstructions. High gain antennas are also available for further improving signal strength.

For more information on 4B's wireless communications, please contact us at 309-698-5611 and ask for Brian.

Watchdog™ and Hotbus™ are trademarks of 4B Components Ltd., a subsidiary of T.F. & J. H. BRAIME (Holdings) P.L.C.

## ENGINEERING INPUT

### 4B Drop Forged Stainless Steel Chain Replaces Engineered Class Chain in Difficult Application



#### Roger Bruère Technical Sales Manager - Material Handling Products

Handling Wet Distillers Grain is not a walk in the park. The co-product generated in ethanol processing plants is hot, wet and sticky. It contains about 65% moisture and its acidic pH makes it corrosive and detrimental to conveying equipment. High quality, long lasting and reliable stainless steel drag chain components are essential to minimize machine down time.

Typical engineered class 300 series stainless steel chains offer good corrosion resistance but fall short in abrasion and wear resistance. As such, they need to be frequently replaced and consequently become a major investment. The ideal chain for

handling WDG not only needs to have good corrosion resistant qualities, but also needs to be extremely abrasion and wear resistant.

4B Drop Forged Stainless Steel Chain offers good corrosion, abrasion and wear resistant qualities at a competitive price.

The chain is forged out of 400 series heat treatable magnetic stainless steel capable of providing the necessary corrosion resistance as well as outstanding abrasion and wear resistance thanks to its case hardened shell. Its design and assembly method facilitate maintenance and repairs. 4B Stainless Steel sprockets are segmental and can be easily replaced while the hub remains mounted on the shaft.

4B Drop Forged Stainless Steel Chain provides the longevity and reliability required in this tough application. It is, without a doubt, the ideal chain for handling Wet Distillers Grain.

For more information on upgrading your WDG conveyor chain, please contact us at 309-698-5611 and ask for Roger.

Have a problem you need a solution to?  
Email Roger Bruere at: [rbruere@go4b.com](mailto:rbruere@go4b.com).



Engineered Class  
Stainless Steel Chain



Stainless Steel  
Drop Forged Chain Link

Stainless  
Segmental  
Sprocket

## NEWS

### 4B Opens Australian Office

4B is excited to announce the opening of our new operation created especially for the Australian market. 4B Australia Pty Ltd, located in Brisbane, was officially incorporated in December of last year and is under the leadership of Paul Dennis, former Product Development Manager at Fenner Dunlop Conveyor Services.



4B Australia has been created owing to the importance of the region in 4B's growth plans. 4B has been serving customers in the area for many years, and 4B components have become an integral part of many Australian processing facilities.

With its local presence in Australia, 4B will be able to provide a first class technical support and after sales service to our local customer base.

4B Australia will be stocking and selling the complete range of 4B products: elevator buckets, belts & bolts, forged chain, and monitoring components.

Contact Paul Dennis - [pdennis@go4b.com](mailto:pdennis@go4b.com) for any product inquiries in the land "down under".