



**SPLIT SET MINING SYSTEMS**  
UNDERGROUND ROOF SUPPORT PRODUCTS

# **BOLTSAFE INDICATORS**

## **ADDING VALUE THROUGHOUT THE SUPPLY CHAIN**

- » Patent pending technology
- » Low cost
- » Applied pre installation to existing ground support products
- » Indicate increasing ground pressure on bolt
- » Indicate overdriving on installation
- » Ensures ground support is fit for purpose
- » Indicates hazards immediately
- » Easy to understand (you don't need a Geotechnical degree to identify the hazard)



## **SAFETY YOU CAN SEE**

### **OVERDRIVEN**



### **CORRECT INSTALLATION**



### **MINING COMPANIES**

- » QAQC for ground support that was previously unavailable (manages multiple hazards)
- » Pull rings manage slippage but this is only identified when pull rings are tested
- » BoltSafe indicators work as a pull ring but identify squeezing and seismic damage at the time of the event
- » Warning of potential fall of ground before it happens
- » In turn reduces the incidents reportable to DMIR's
- » Improves safety and reduces risk of litigation

### **MANUFACTURER/SUPPLIER**

- » Point of difference (commitment to safety, industry first)
- » Ensures your product is fit for purpose
- » Ability to use as a pull collar
- » Bolts can be identified on installation
- » Same concept works across multiple bolt types
- » Reduces companies risk of litigation

### **CONTRACTORS**

- » Visual indicator of bolt installation standard
- » Training tool for new operators to not overdrive friction bolts
- » Improves safety of their workforce
- » Reduces a reportable incident to DMIR's as a result of falling ground
- » Lowers risk and reduces incidents