

INNOVATION.
NOT DUPLICATION.™



MINING SOLUTIONS

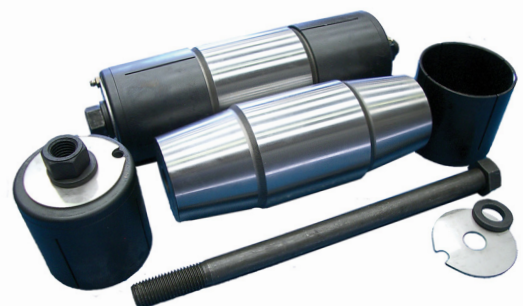
BIRRANA™ COLLETED PINS

H-E PARTS INTERNATIONAL (H-E PARTS) PROVIDES SOLUTIONS FOR THE ENTIRE POWERTRAIN, SPECIALIZES IN THE RE-MANUFACTURE OF MAJOR MOBILE EQUIPMENT COMPONENTS, AND OFFERS INDUSTRY LEADING BIRRANA™ PRODUCTS. THE ENHANCED DESIGN FEATURES OF THE BIRRANA™ PRODUCTS DELIVER EXTENDED LIFE, EASE OF MAINTENANCE AND SUPERIOR PERFORMANCE.

At H-E Parts, we have developed the Birrana™ Colleted Pin to eliminate the need for the lancing or pressing of seized pins traditionally used on haul trucks. Conventional pins used in these locations are notoriously difficult to remove, wasting time, money and causing damage to housings. Reducing the need for lancing and boring, the Birrana™ Colleted Pin solution reduces costs and improves safety associated with the lengthy and arduous task of replacing regular OEM pins. Birrana™ Colleted Pins can be used for rear suspension, control rod and A-frame hitch pin assemblies.

TAPER DESIGN

Movement of the pin can result in housing wear and associated damage. This action can result in a seized pin which is very difficult to remove. As such, the Birrana™ Colleted Pins utilize a tapered colleted arrangement that locks the pin assembly into position, reducing movement and wear. Birrana™ pin and colleted taper geometry has been engineered to generate maximum clamp force, ensuring maximum security and integrity in the design.



BIRRANA™ ADVANTAGES

EASY TO INSTALL AND REMOVE

The Birrana™ Colleted Pins slide into position easily. Once installed, the pin bolts pull the collets onto the pin taper, locking the assembly firmly in place. Removing the pin bolts and shields on the Birrana™ collets reveal holes for jacking bolts to allow easy removal of the one-piece collets.

CORROSION RESISTANT

Our Birrana™ Colleted Pins undergo proprietary surface heat treatment processes to reduce the likelihood of collet seizure in the bore. Collets are filled with grease on installation to further prevent corrosion. The anti-corrosion coating allows for mechanical removal without heat, lancing or pressing.

COST AND TIME REDUCTIONS

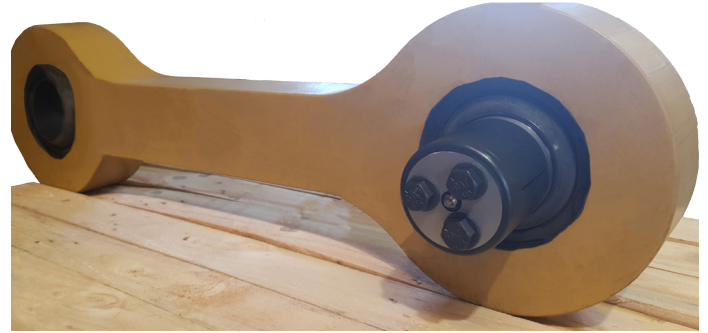
The Birrana™ Colleted Pin offers reduced risk, downtime and costs associated with lancing and boring out seized traditional pins. In instances where traditional pins seize in the bore, removal attempts can require serious effort and it is not unusual for a thermal lance to be used to help remove the pin. Lancing and boring processes require additional contractors, permits, increase risks and can lead to longer downtime. The Birrana™ Colleted Pin removes the additional costs and resources associated with lancing and boring.

MAINTENANCE FREE AND REUSABLE

After the initial 50-hour check of bolt torque, no maintenance is required on the Birrana™ Colleted Pins, saving our customers further cost and time reductions. In many cases the pin assemblies can be used more than once, and since the pins lock into the housings preventing movement during service, damage to housings is reduced and at times even eliminated.

INCREASED SAFETY WITH BIRRANA™

An added benefit to using the Birrana™ Colleted Pins is the reduction in safety risks associated with the removal process of conventional pins. Conventional pins are often removed via thermal lancing, pressing, or striking with hammer blows, all of which bring notable safety hazards.



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