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MELFRED BORZALL INTRODUCES PATENT PENDING PIT BULL™ HOUSING AND BLADE DESIGN

As bolt shearing becomes an increasing headache for HDD drillers, MBI innovates a solution.

Santa Maria, CA, May 18, 2018— As drillers are continually coming up against new challenges and different mixtures of ground conditions, so is the evolution of technology to meet those demands. Sometimes, it comes in the way of high-tech solutions and other times the answer is good old fashioned engineering with a bit of R&D.

Bolt shearing and breaking seems to be increasing with the scale of rig torque and power available at the fingertips of rig operators. When bolts shear, the cost of losing a blade downhole is the least of the worries. Tripping out, downtime, and possibly reshooting the bore add up to serious damage on production efficiency. Dick Melsheimer, head of R&D at Melfred Borzall, has been visiting job sites and talking with drillers about the issue for some time.

“We have seen reasons for the breaking and shearing of bolts range anywhere from running the drill head too quickly in difficult ground, to improper bolt placement. There are so many variables it is difficult to pinpoint the primary culprit, but if we add another feature to our housing designs, we are able to remove that question all-together.” Says Dick Melsheimer.

By adding dowel pins to strategic areas of the blade-mating surface on Melfred Borzall’s side-load housings and bit bodies, then aligning those with drilled holes in blades, the shear force is relieved from the bolts. As the dowel pins take all the lateral shear force, it increases the bolts ability to hold the blade fast up to more than 100%. Melfred Borzall is creating versions of all its popular blade designs to be “Pit Bull™ compatible, beginning with the newest release, the Red Diamond™ Blade. Also, each of the Pit Bull™ transmitter housing designs come standard with *removable* dowel pins so customers can use the housing with other non-Pit Bull™ blades as well.

If you would like more information about the Pit Bull Blade, housing, or Red Diamond™ Blade, please contact Peter Melsheimer at 800.558.7500 or email at pmelsheimer@melfredborzall.com.