

Redesigned Stock Plate Bolts

for Stolle Cupping Systems



Stolle
Cupping Systems
Technical Update 2011-2

Stolle Canton has redesigned the bolts that attach the stock plate to the stock plate pistons on our cupping die sets to be easier to remove during die set maintenance. On a lower cupping die, the stock plates rest on a series of pneumatic pistons referred to as stock plate pistons. These pistons allow the stock plates to lower as the die set closes to blank and draw the cups, then raise as the die set opens to lift the can stock off the lower tools and index forward. The stock plates are attached to the pistons using special stock plate bolts.



Previously, the custom shaped stock plate bolts were machined from bar stock. The external threads of the bolt engaged with internal threads machined into the piston. Customers have alerted us to situations where they were not able to remove the stock plate bolts from the pistons with a conventional hex wrench because the threads may have corroded, galled or fractured due to various reasons.



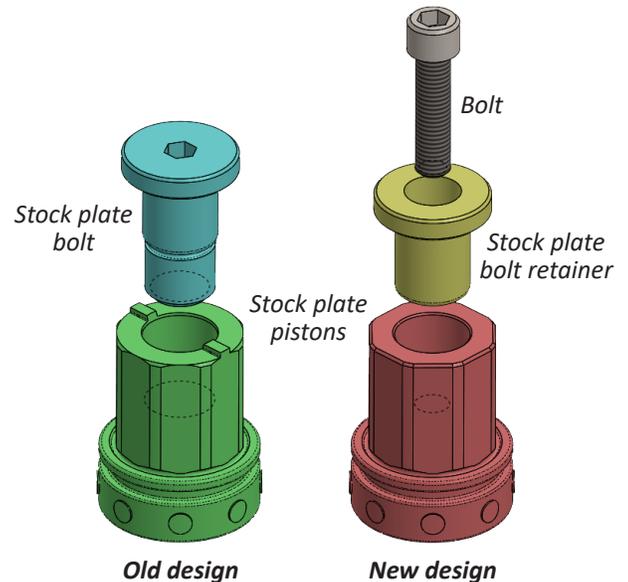
Previous design stock plate bolt and piston

The new design eliminates the need to machine threads onto a custom bolt. Instead, a standard socket head cap screw is mated with a simple bolt retainer to replicate the shape of the previous stock plate bolt. The only difference with the new stock plate piston versus the previous piston is the size of the internal threads. Although the new design is comprised of three pieces instead of two, we believe the new design to be simpler to manufacture and easier to assemble and disassemble.



New design stock plate bolt and piston

The new design is interchangeable with the old design and is a direct substitution. It can be retrofitted to existing die sets in the plant, and will be standard on new cupping die sets. Specific part numbers and size variations of the new design will be generated by engineering to accommodate various applications. We can offer the new design for both round shaped pistons and octagonal shaped pistons.



For pricing and/or to order a set of the redesigned stock plate bolts for your cupping die sets, please contact Kelly Hurst at Stolle Canton at +330-244-0537 or kelly.hurst@stollemachinery.com.



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