

Forge Hammer Isolation



With every blow that is struck on a forge hammer, shock and vibration is imparted to all components of the machine. At mating joints there is a tendency to have metal spalling, cracking and chipping. Rods, nuts and bolts can be broken and scale flying from the forging can get behind and under the key guide and other important areas causing metal to be scarred or gouged out. The use of Fabreeka® in these main areas can greatly reduce maintenance and down time.

Fabreeka® is a resilient laminated fabric pad comprised of closely woven polyester cotton each with layer impregnated with an elastomeric compound containing mold and mildew inhibiting agents.

This resilient pad is exceptionally strong with outstanding resistance to most oils, steam, water and brine.

1 HEAD ASSEMBLY

The head assembly which houses the power unit is usually on a tie plate bolted directly on to the top two columns. The shock released by the blow is reflected upwards through the columns giving a tendency to spread, which could cause resistance or excessive wear. By installing Fabreeka® over the full bearing area, this problem can be greatly reduced.

2 COLUMN TO ANVIL PADS

The columns can be moved for adjustment; therefore the area between the column leg and the anvil face can be penetrated by working scale produced by each blow from the die on work in progress. This can result in metal scoring and the need to re-machine the faces to provide a solid fit. By covering the entire contact area in large hammers both horizontally and vertically with Fabreeka®, this metal wearing can be prevented.

Fabreeka®-LTP

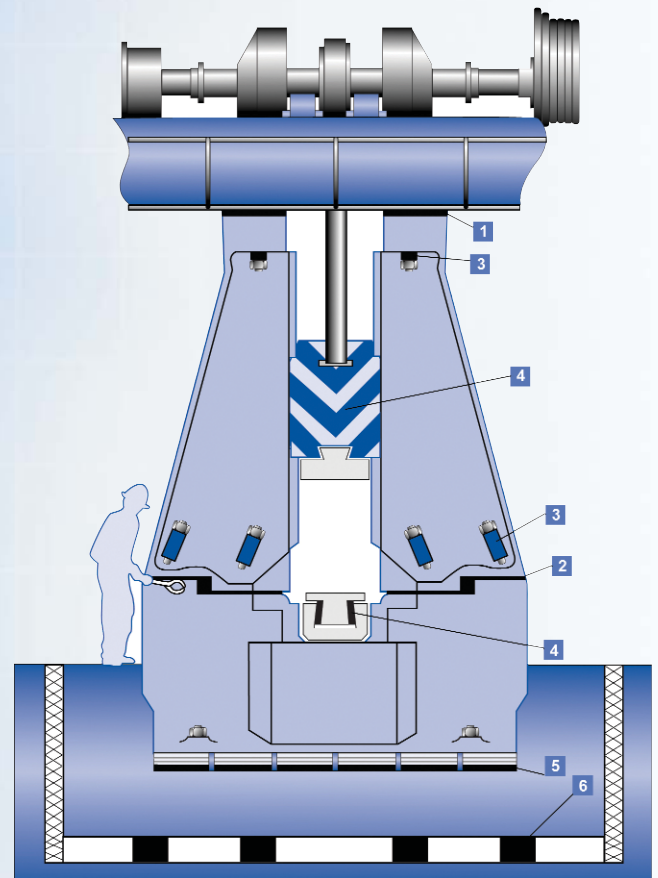
The addition of LTP (Laminated Thermal Plastic) to Fabreeka® will result in a lower co-efficient of friction between the column and the Fabreeka® making it easier to re-set and slide the column legs. The LTP also prolongs the life of the Fabreeka® pad.

3 STEEL SPRING REPLACEMENTS

For many years, Fabreeka® has been successful in replacing steel springs that can fatigue. These pads can be employed in areas such as where guide bolts go through the legs into the top of the anvil, above the head assembly to hold down the cylinders or gear assembly, and the hold down bolts at the top of the anvil legs.

4 ANVIL CAP OR SOW BLOCK

The sow block key can be difficult to retain or remove. By using a strip of Fabreeka® between the key and the anvil, a tight fit can be maintained ensuring ease of drive for removal. The installation reduces the stresses resulting from the expansion of the sow block.

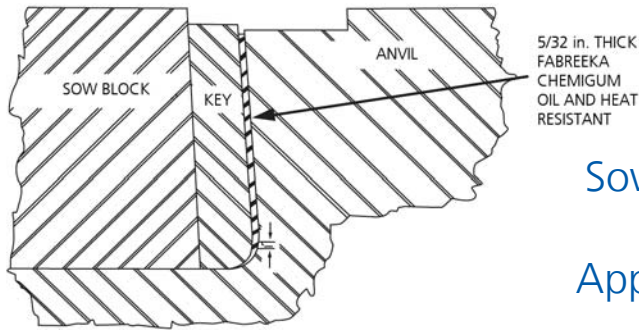


5 FOUNDATION BLOCK ISOLATION

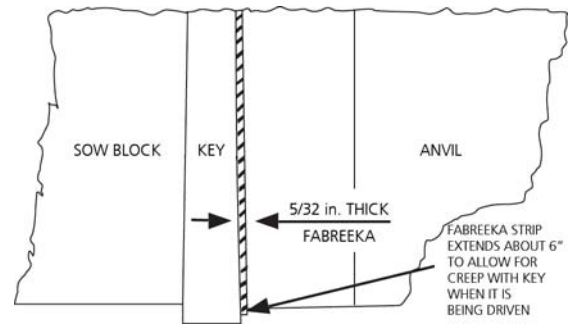
If a severe shock and vibration problem is experienced or anticipated, then an isolated inertia block is required. The added mass provides less vertical deflection giving good isolation. Supporting the block on an isolation system can increase the isolation efficiency to between 80-90%. Contact Fabreeka International for more details on inertia block design and its full range of isolation materials.

6 ANVIL MAT

To cushion the force transmitted to the foundation block and avoid the risk of the anvil cracking, either a Fabreeka® pad on the full area under the anvil, or a Fabreeka® Soft-System should be used.



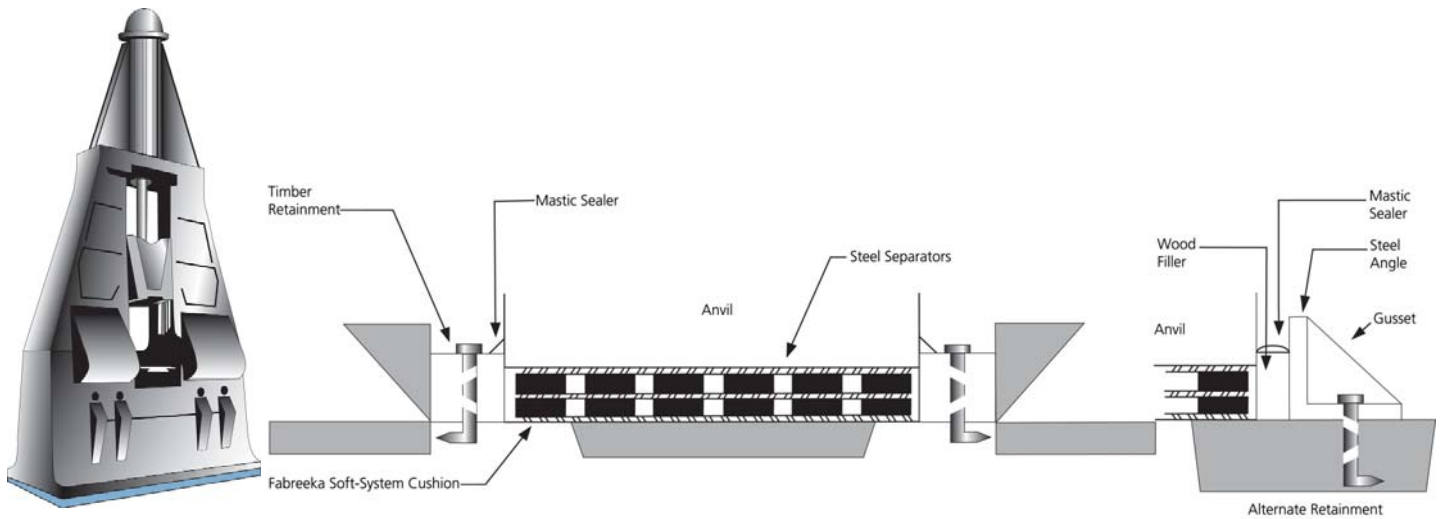
Sow Block
Application



Hammer Data Required for Analysis

Manufacturer: _____
 Type: _____
 Load Rating: _____
 Anvil Base Area = ____ in. x ____ in.
 Steam/Air Pressure _____ PSI
 Cylinder Bore = ____ in.

Falling Weight (RAM) = _____ lbs.
 Max. Upper Die Weight = _____ lbs.
 Anvil Weight = _____ lbs.
 Max. Lower Die Weight = _____ lbs.
 Stroke (Falling Height) = _____ in.
 Blows/Strokes per Minute = _____



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