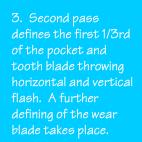
H&L's FORGING BY UPSETTER PROCESS

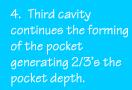


1. The "BILLET", a Chrom-Moly grade 17/16" raw steel diameter round, 7.50" long, is heated to 2250° F by electrical induction heaters.



2. First pass in the 4" Upsetter balls the pocket area to ensure material flow into the tooth walls.









H&L's Inspector General oversees every inline floor inspection center at our Oklahoma manufacturing facility. This ensures that only the best quality Teeth leaving Tulsa!

H&L Quality since 1931...



 Trimmed to remove the excess horizontal flash created by the forging process.





Tooth finishing starts with de-burring remaining flash materials prior to heat treating. Heat treatment consists of quench and temper for arend result of 514BHN in hardness.

The hardened 230SP is then painted H&L Blue and branded as

FORGED MADE IN THE USAL

8. Creation of the Flexpin attaching holes are done on hydraulic punching machines exclusively constructed for H&L in the late 1960's.

7. Trimmed to remove the excess vertical "head" flash created by the upsetter dies.

