



*PROGRAMMABLE HAMMERS CAN BE THE MOST COST-EFFECTIVE TOOLS IN YOUR FORGE SHOP!*

Here are thirteen compelling reasons why you should investigate the use of Programmable Forging Hammers –

1. Vertical Programmable Hammers, like the Die Forger and Power/Forger, produce higher quality forgings due to closer ram guiding, and their ability to better maintain correct die match. This is attributable to the radially opposed ram guiding arrangement that maintains proper running clearance regardless of ram temperature.
2. Using Programmable Hammers, the complete forging program can be pre-set including the number of blows at each station (die impression), blow intensity (infinitely variable from 25% to 100% rating), blow rate and mode of operation. The accuracy of the settings along with the ability to repeat the program with excellent consistency enables forgings to be produced with greater uniformity. Overstriking can be avoided which contributes to longer die life. Also, of significant importance is the use of induction heating equipment that can deliver uniformly heated billets to the hammer at predetermined rates to preserve the dies and to promote maximum utilization of the equipment.
3. Job-for-job production increases of as much 35% over conventional hammers are not unusual. The Programmable Hammers feature rapid striking rates which help to achieve this benefit.
4. Chambersburg Programmable Hammers are designed to be operated using dry, compressed air. Valving is zero-leakage design, and air is used only when striking a blow. These efficiencies narrow the difference in terms of useful energy per unit of power consumption, or foot-pounds per horsepower whether the hammer is fluid or gas driven.
5. Programmable hammers, such as the Die Forger, use fewer, more durable parts in their make-up. There are no piston rod clamping mechanisms, no treadle linkage, or mechanical connections between the ram and valving.
6. Preventive maintenance programs are well suited to programmable hammers. Hourly time meters, and blow counters provide the means to track parts life, and to

schedule PM needs in advance. Unexpected interruptions in production can be minimized. As a result, production efficiency is higher, and production scheduling is more reliable.

7. The new, popular Mark IV Controls are expandable to include up to 54 program memory slots, up-time/down-time logs, production reports, diagnostics and trouble shooting help, and tie-in to PC or mainframe computers. A special version will provide histology of each forging produced which is particularly appropriate for safety critical forgings such as aircraft landing gears, jet engine discs and blades, etc.
8. Running a Programmable Hammer requires a skill level not unlike a forging press operator. He pre-sets the hammer speed and mode of operation in keeping with his skill level. Then, he depresses the foot switch and moves the forging from die station to die station, as required. There are no special treading skills. The operator is better balanced with both feet on the floor.
9. When producing force intensive forgings, there is no more economical equipment to use than forging hammers. The capability of the hammer to generate tremendous magnitudes of force accounts for its versatility and its continued widespread use compared to mechanical presses.
10. Utilizing the latest developments insound and shock isolation, hammer installations can be designed to be virtually free of transmitted shock and vibration. Sound absorbing materials and air conditioning techniques can also be used in the construction of hammer shop areas to effectively reduce noise transmission.
11. Efficient die design techniques when applied to impact forging applications, assures the prudent use of material, and maximum die life. When combined with Programmable Hammers, additional production efficiencies result which can increase profit opportunities particularly in batch-type, or JIT, situations.
12. Chambersburg Programmable Hammers are backed by an experienced engineering department, skilled service technicians, and correct, OEM replacement parts as needed. As design upgrades are made, most can be offered to update equipment in the field.
13. Chambersburg Programmable Hammers comprise 99% of the new equipment being built by Chambersburg today. Forty-five percent of the owners of the ninety-nine programmable Die Forgers, Impacters and Conversion Units in service are repeat buyers. This is the most convincing testimonial for the superiority of Chambersburg Programmable Forging Hammers.