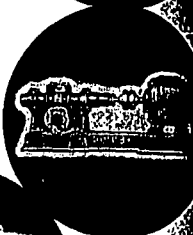
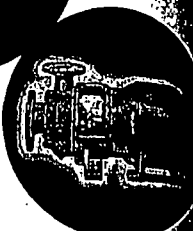
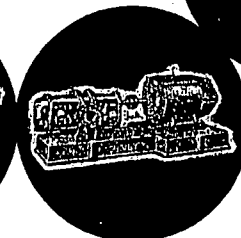
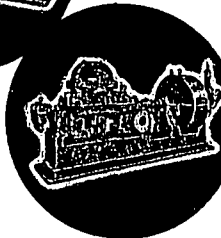
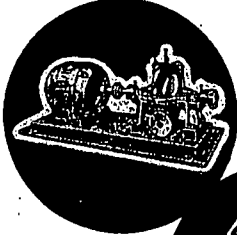
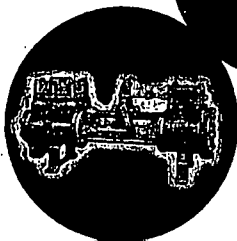


WARREN PUMPS

**keep
their
heads!**



..... In other words, maintained efficiency has always been, and will continue to be, a fundamental virtue of all Warren Pumps. Original efficiencies in a pump can be very misleading and a source of disappointment in its long range efficient life expectancy.

The three most important factors affecting maintained efficiency are hydraulic design, leakage losses and friction losses. The generous acceptance of Warren Pumps for well over half a century

is convincing evidence that Warren has the engineering ability, skilled pump mechanics, and facilities to handle all of these important factors. The definite advantage of their customers, from the angle of long-range efficiency, minimum maintenance and low power costs.

"THEY KEEP THEIR HEADS"

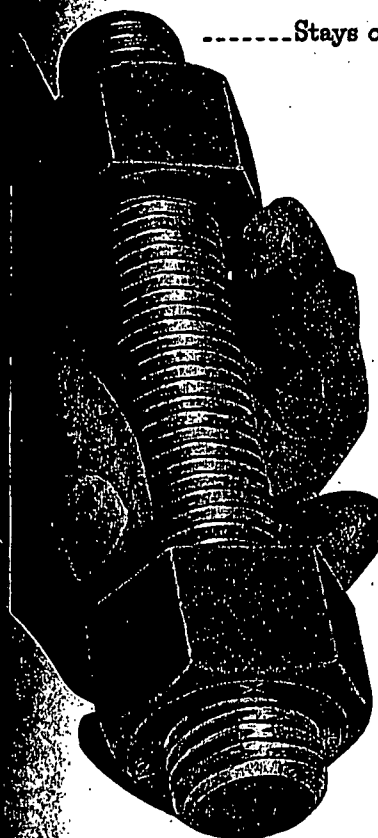
WARREN STEAM PUMP COMPANY
WARREN, MASSACHUSETTS



WARREN PUMPS
CENTRIFUGAL • RECIPROCATING • ROTARY

Stud-and-Nut Combination Resists Fatigue Failure

-----Stays on Job at **HIGH** Temperatures



For bolting applications involving high temperatures or high pressures, it pays to use the Bethlehem Continuous-Thread Stud, together with two Bethlehem Quenched Nuts.

This stud-and-nut combination is ideal for difficult bolting jobs because it resists the premature fatigue failure often induced by fluctuating temperatures and pressures. It's an economical combination, too, because of its long service life.

The Bethlehem Continuous-Thread Stud has no point of thread-runout. Therefore those stresses which could contribute to early failure are well distributed over the full working length of the stud, rather than being allowed to gather at any one point.

The Bethlehem Quenched Nut, made from .40 to .50 carbon steel, is formed by forging and extruding hot steel in a forming die. It is then quenched and tempered. This procedure makes the nut sufficiently strong to break virtually any stud or bolt on which it may be used. Like its companion stud, the Quenched Nut is furnished in a wide range of sizes.

It will be well worth your while to consider Bethlehem Continuous-Thread Studs and Quenched Nuts for high-temperature bolting. The nearest Bethlehem office is at your service.

BETHLEHEM STEEL COMPANY, BETHLEHEM, PA.

On the Pacific Coast Bethlehem products are sold by Bethlehem Pacific Coast Steel Corporation. Export Distributors: Bethlehem Steel Export Corporation



Bethlehem supplies every type of Fastener