

PROGRAMMABLE TRANSFER DEVICES

It is proposed to use a "Unimate" UTD with two horizontal 30-ton broaches to unload station two, load station two from station one and load station one from stockpile. The blank being loaded is the approximate 10-pound shotgun type Receiver and the manufacturer is designing the "gripper" to manipulate the blocks through the loading sequence.

A quotation should be available in several weeks and if the economics warrant, the UTD might be installed about the same time as the new broach scheduled in September, 1975. A 50-60% probability exists that a "gripper" can be designed to handle our requirement.

A second application is being considered for a UTD. It is proposed that a UTD be programmed to unload the hot die forged Trigger Plate, dip it in a quenching tank and load the trim press die cavity. This proposal will not proceed to actual design recommendations and quotation until the die forging machine is operational about October, 1975. A 75% chance of success might be expected at this time in the material handling sequence.

MECHANIZED ASSEMBLY - COMMON FIRE CONTROL (RXI-61)

The common fire control for Model 1100, 870, 552, 572, 742 and 760 firearms is assembled manually at a cost of \$120,000 per year. Estimated gross savings of \$54,000 per year can be realized by developing an automatic assembly machine. The Engineering Development Lab. has completed a feasibility study and estimates \$180,000 capital required for a 16% ROI. More detailed design and an updated capital estimate are due in April. An automatic assembly machine could be designed, fabricated and installed 18 months after project authorization.