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ZL
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G. D. COMPANY

M/700 Bolt Latch Mechanism

Evaluation of the proposed Bolt Latch mechanism for M/700 rifles indicates it will result in a \$3.00 increase in unit factory cost (full allocation basis) in its first year (1982). For comparison purposes, a 1982 "Line Before" and three alternative "Line After" results were developed based on M/700 cost performance during our first six months of 1979. These alternatives were:

1. Adding of the Bolt Latch mechanism without adjusting prices.
2. Adding the Bolt Latch mechanism and adjusting prices to maintain the current pretax margin.
3. Adding the Bolt Latch mechanism without adjusting prices, but deleting the sling and swivels from the M16 scope to compensate for the increased cost.

The results of these evaluations are summarized in the attached table which shows weighted average UNIT prices, costs, and pretax earnings and the project results. This data has been adjusted to anticipated 1982 price and cost levels.

As shown in this table, Alternative III is the most attractive in % margin earnings, and net return on investment because it results in a net reduction in costs and working capital requirements. One disadvantage of this alternative is that All and Classic grade earnings are adversely affected, and the results shown depend on maintaining current product mix.

Alternative II also results in increased earnings, however, the net return on investment is substantially lower because of additional working capital requirements resulting from increased costs and sales.

All alternatives require project expenditures of \$24M construction and \$8.3M in operations charges. Detailed data for the line before and each alternative are attached.

J. C. Button
J. C. Button, Superintendent
INDUSTRIAL ENGINEERING SECTION

by T. R. Andrews
TSA/mc
ATT.

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	1992 Line Before	Alternative I Without Price Adjustment	1992 Line After Alternative II With Price Adjustment	Alternative III With Sling Deleted From Bill
Retail Selling Price	\$ 411.28	\$ 411.28	\$ 409.09	\$ 411.28
Net Selling Price	220.55	220.55	224.76	220.55
Factory Cost	158.05	161.05	161.05	155.89
Total Cost	183.75	186.62	187.23	181.68
Pretax Earnings - Unit Line	36.80 \$ 5,123 M	33.93 \$ 4,723 M	37.51 \$ 5,221 M	38.87 \$ 5,310 M
% of Net Selling	16.7%	15.4%	16.7%	17.6%
Project Results				
Pretax Earnings				
Full Allocation Incremental	--	(-\$100M) (\$310M)	\$ 93M \$223M	\$ 287 M \$ 275 M
Net Earnings	--			
Full Allocation Incremental	--	(-\$20M) (\$150M)	\$ 52M \$178	\$ 150 M \$ 144 M
Net Return on Investment	--			
Full Allocation Incremental	--	Negative Negative	8.6% 19.7%	202.7% 387.0%

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A decorative horizontal border featuring a repeating pattern of small, stylized floral or geometric motifs in a dark color against a light background.

W/100 Ball-Bear Mechanism

Cost of Components

T.D. Balance

10/10/80

Component	Standard Material	Standard Labor	Direct Charges
Bolt Lock	\$.168	\$.112	\$.220
(new part - 2 drill holes operations, heat treat & scale)			
Bolt Plug			
(existing part - 3 special machine operations & deburr)		3.77	1.63
Bolt Assembly	—	2.53	1.21
(existing part + 1 mill op.)			
Moving Pin Assembly	—	0.93	0.93
(existing part + assm. op.)			
Patent Plunger	.234	0.604	0.604
(new part - heat treated & scale)			
Patent Plunger Spring	.013	—	—
(new part)			
Patent Retaining Pin	0.01	—	—
(new part)			
Final Assembly	—	3.16	—
(added inspection elements)			
Total	\$.826	\$ 6.814	15.228

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