



## ROI / Through-put Rate Worksheet

Estimated ROI prepared for:		Confidential			5.	/28/2008
Customer Contact:	John Q. Public		Screw Rep:	Acme Feedsc	rew	

This document provides an estimate of return based on feedscrew output improvement of carbide compared to your current feed screw. This simple model uses beginning and ending output rate, present screw hardfacing and total wear amount to compare these options. Carbide is estimated to wear at 1/2 the rate of existing hardfacing. The output estimates are calculated using the current feedscrew service life. Tungsten carbide will wear at 1/3 to 1/5 the rate of standard hardfacing. See our ASTM G65 wear test data.



## **Estimated Monthly Return on Investment from Production Gain**

Saleable output gain/mo. =

\$41,000

The Production Efficiency Advantage Factor (PEAF) helps quantify gains that result from postponing a wear condition Direct cost reduction includes: power consumption, cooling requirements, scrap regrind and handling, degraded non-

useable product, direct maintenance labor, unscheduled downtime, etc. Indirect costs include; lower productivity, higher cost per unit produced, lost capacity, process instability, etc.

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