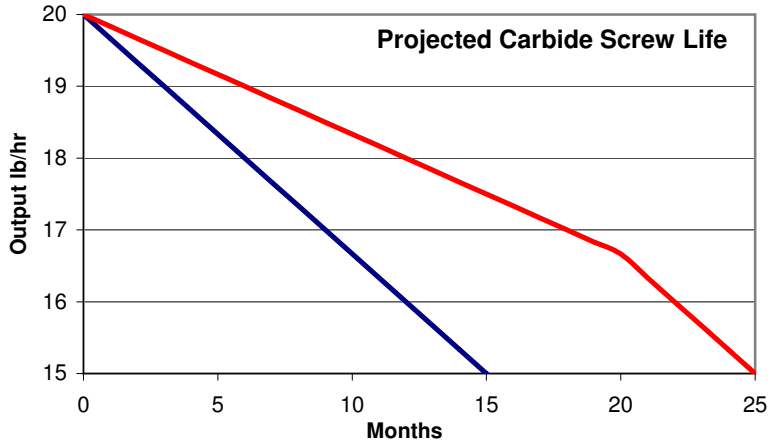
ROI / Through-put Rate Worksheet

Estimated ROI prepared for: Confidential 5/28/2008

Customer Contact: John Q. Public Screw Rep: Acme Feedscrew

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.



Production Data

	New	End
Output/hr.	20	15
RPM	80	80
	Hrs/day	Days/mo
Schedule	20	22

Output/mo.	**Current**	**Carbide**
New	8,800	8,800
@ 15 mo.	6,600	7,700
Decline	-25%	-13%
Output at month 15		
Total	117,000	124,000
Output Gain		7,000
Saleable Production Gain		$32,000
Monthly Gain		$2,000

Calculation Data	Current		Carbide
Screw Diameter in mm or in:	35.00		35.00
Screw substrate/hardfacing:	CPM-9V		XC9000
OD Wear tolerance in thousandths:	0.030	0.75	0.030
Projected life in months:	15		25
Production sell price per lb.	$4.50		$4.50

Estimated Monthly Return on Investment from Production Gain

Saleable output gain/mo. = $2,000

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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