

The following tables show the results of a detailed study conducted over twelve months comparing an electric proportioner spray system and a FOAMMAX system.

crew	electric equipment	FOAMMAX	comparison notes
persons/crew	3	4	<p>In order to provide a true cost/benefit analysis of a single-gun electric system vs. a double-gun FOAMMAX system, crews were configured differently depending on the equipment they were using. The FOAMMAX system with its extra gun required a four person crew to operate efficiently while the electric equipment required three.</p>
average cost/man hour	\$22.00	\$22.00	
hours/day	7	7	
days/week	5	5	
weeks/month	4.34	4.34	
weeks/year	50	50	
man hours/hour	3	4	
/day	21	28	
/week	105	140	
/month	455.7	607.6	
/year	5250	7000	
production days/year	250	250	
payroll operating cost/hour	\$66.00	\$88.00	
/day	\$462.00	\$616.00	
/week	\$2,310.00	\$3,080.00	
/month	\$10,025.40	\$13,367.20	
/year	\$115,500.00	\$154,000.00	

spray rig	electric equipment	FOAMMAX	comparison notes
average rig cost	\$79,000.00	\$89,900.00	<p>The approximate cost of the double-gun FOAMMAX system used in this study was \$89,900. Single-gun electric systems range in price but average around \$79,000.</p>
down payment	10%	10%	
amount financed	\$71,100.00	\$80,910.00	
term (months)	60	60	
rate	9.00%	9.00%	
rig payment/hour	\$9.72	\$11.06	
/day	\$68.01	\$77.40	
/week	\$340.07	\$387.00	
/month	\$1,475.92	\$1,679.56	
/year	\$17,711.03	\$20,154.70	

job	electric equipment	FOAMMAX	comparison notes
average # of crews/job	1	1	<p>In our comparison we carefully tracked how a double-gun FOAMMAX system affected the duration of insulation jobs. The data showed that the FOAMMAX double-gun spray system reduced the duration of jobs by an average of 35%.</p>
average days/job	4	2.6	
average cost of insulation job	\$11,570.00	\$11,570.00	
target net profit margin/job	16%	16%	
average breakdowns/job	0.240	0.042	
average replacement part cost/breakdown	\$678.00	\$175.00	
average downtime/breakdown (hours)	6	2	
sale price of insulation job	\$13,773.81	\$13,773.81	
net profit/job	\$2,203.81	\$2,203.81	
man hours/job	84.0	72.8	
breakdowns/day	0.1	0.0	<p>In addition the FOAMMAX system broke down 11 fewer times than the single-gun electric system.</p>
/week	0.3	0.1	
/month	1.3	0.4	
/year	15.0	4.0	
hours between breakdowns	117	433	
average repair parts cost/day	\$40.68	\$2.83	<p>When a breakdown did occur, the average cost of repair parts for the FOAMMAX system was \$175 compared to \$678 for the electric system.</p>
/week	\$203.40	\$14.13	
/month	\$882.76	\$61.34	
/year	\$10,170.00	\$706.73	
average lost production hours/day	1.08	0.13	
/week	5.40	0.65	<p>During a breakdown, the FOAMMAX averaged 2 hours of downtime before it was operational again compared to 6 hours of downtime for the electric system.</p>
/month	23.44	2.80	
/year	270.00	32.31	
/breakdown	18	8	
/job	4.32	0.34	
average cost of lost production hours/day	\$23.76	\$2.84	
/week	\$118.80	\$14.22	
/month	\$515.59	\$61.69	
/year	\$5,940.00	\$710.77	
/breakdown	\$396.00	\$176.00	
/job	\$95.04	\$7.39	