



60,000 psi vs. 94,000 psi Pump Operating Costs

		60,000 psi				94,000 psi				60,000 psi				94,000 psi			
ADVANTAGE Series Operating Cost Estimate Worksheet ¹		Cost Each	Quantity	Consumption Rate per Hour ²	Cost per Hour	Cost Each	Quantity	Consumption Rate per Hour ²	Cost per Hour	Cost Each	Quantity	Consumption Rate per Hour ²	Cost per Hour	Cost Each	Quantity	Consumption Rate per Hour ^{2,5}	Cost per Hour
Variable Cost																	
Utilities (@ full capacity)																	
Power		\$0.080	KWH	37.5	\$3.00	\$0.080	KWH	37.5	\$3.00	\$0.080	KWH	75	\$6.00	\$0.080	KWH	75	\$6.00
Cutting Water		\$0.002	GPH	37.5	\$0.08	\$0.002	GPH	37.5	\$0.08	\$0.002	GPH	120	\$0.24	\$0.0020	GPH	84	\$0.17
Cooling Water		\$0.002	GPH	180	\$0.36	\$0.002	GPH	180	\$0.36	\$0.002	GPH	240	\$0.48	\$0.0020	GPH	240	\$0.48
Abrasive Cost³																	
Abrasive - Cost/lb & Consumption Rate/min.		\$0.21	LBS	1.00	\$12.60	\$0.21		0.75	\$9.45	\$0.21	LBS	1.50	\$18.90	\$0.21	LBS	1.25	\$15.75
Utility and Abrasive Cost per Hour		\$16.04				\$12.89				\$25.62				\$22.40			
		Cost Each	Quantity	Average Life in Hours	Cost per Hour	Cost Each	Quantity	Average Life in Hours		Cost Each	Quantity	Average Life in Hours	Cost per Hour	Cost Each	Quantity	Average Life in Hours	Cost per Hour
H2O Jet Consumables Cost																	
Advantage Pump (Major Wear Parts)																	
High Pressure Seals		\$120.00	2	600	\$0.40	\$320.00	2	500	\$1.28	\$120.00	4	600	\$0.80	\$320.00	4	500	\$2.56
High Pressure Cylinders		\$675.00	2	3,000	\$0.45	\$650.00	2	2,500	\$0.52	\$675.00	4	3,000	\$0.90	\$650.00	4	2,500	\$1.04
Ceramic Plungers		\$950.00	2	4,000	\$0.48	\$950.00	2	3,000	\$0.63	\$950.00	4	4,000	\$0.95	\$950.00	4	3,000	\$1.27
Check Valve Internals		\$145.00	2	1,000	\$0.29	\$155.00	2	1,200	\$0.26	\$145.00	4	1,000	\$0.58	\$155.00	4	1,200	\$0.52
Check Valve Body		\$305.00	2	2,500	\$0.24	\$360.00	2	2,400	\$0.30	\$305.00	4	2,500	\$0.49	\$360.00	4	2,400	\$0.60
Advantage Pump Cost per Hour		\$1.86				\$2.99				\$3.72				\$5.98			
IDE™ Series Cutting Head(s)																	
Mixing Tube		\$90.00	1	100	\$0.90	\$200.00	1	80	\$2.50	\$90.00	1	100	\$0.90	\$200.00	1	80	\$2.50
IDE™ Assembly		\$765.00	1	1,000	\$0.77	\$975.00	1	800	\$1.22	\$765.00	1	1,000	\$0.77	\$975.00	1	800	\$1.22
On/Off Valve Repair Kit		\$90.00	1	600	\$0.15	\$250.00	1	500	\$0.50	\$90.00	1	600	\$0.15	\$250.00	1	500	\$0.50
Cutting Head Cost per Hour		\$1.82				\$4.22				\$1.82				\$4.22			
Total H2O Jet Waterjet cost		\$3.67				\$7.21				\$5.53				\$10.20			
Total Abrasive Waterjet Cutting⁴		\$19.71				\$20.10				\$31.15				\$32.60			

1 The H2O Jet Consumable Cost Estimate work sheet has been broken down into two categories: Water Only Cutting and Abrasive Waterjet Cutting.

2 H2O Jet manufactures pumps and consumable parts that are tested at the highest standards. All parts are subject to normal wear and tear. Maximum use of parts is based on correct installation and positioning, reasonable care, including routine preventative maintenance.

3 The price of abrasive estimates may be different depending on abrasive type and grade.

4 Combined cost including Variable cost and Consumable cost.

5 Optimum abrasive concentration. Decrease in abrasive volume will lower operating costs and reduce cutting speeds.