

PRECISION BLASTING SERVICES

INTRODUCES

BLASTING COST ANALYST VERSION 8.0

Blasting Cost Analyst will help quickly compare costs resulting from many different patterns at one time and calculates the cost per volume and the cost per weight for each design. It helps evaluate how cost is affected by changing burden, spacing, hole depth, stemming, subdrilling, hole diameter, priming and initiators. Blasting Cost Analyst takes into consideration up to three different explosives in each hole, initiators, primers, boosters, drilling cost, liners, pumping, shot services and seismic monitoring. The cost per energy unit can also be compared to select the most efficient cost effective explosive for the particular job.

Version 8.0 has many features. The job costing capabilities are detailed and the cost of different delay units within the hole can be itemized. There are separate spreadsheets for surface delays and different size and cost of primers within the blasthole can now be itemized. The number of cost categories has been increased to realistically provide the user with the flexibility of more detailed input on products and services used in the blast, as well as providing a cost per weight or cost per volume that will give more accurate job cost projections. Output data can now be graphically represented by showing the different categories of cost elements on a bar graph. A stacked bar graph can quickly and easily compare costs between different blast designs. Blasting Cost Analyst works in both S.I. (Metric) and U.S. Customary measurement units. It is also available in English or Spanish language.



PRECISION BLASTING SERVICES
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ENTRY 1 INITIATORS Screen 3				
Initiator	Delay (ms)	Quantity	Cost/Unit	Cost/Period
1 P1	25	20	2.50	50.00
2 P2	50	10	3.45	34.50
3	0	0	0.00	0.00
4	0	0	0.00	0.00
5	0	0	0.00	0.00
6	0	0	0.00	0.00
7	0	0	0.00	0.00
8	0	0	0.00	0.00
9	0	0	0.00	0.00
Total Cost:				84.50

1 ENTRY	1	2	3	4	units
File name	BCAUS1.BCA	BCAUS2.BCA	BCAUS3.BCA	BCAUS4.BCA	
+ TOTAL COSTS +					
Total drill cost	1,096.50	1,980.00	1,096.50	630.00	\$
Total exp. cost	2,449.08	4,236.24	2,382.89	1,117.90	\$
Initiator cost	84.50	75.00	75.00	75.00	\$
Primer cost	107.20	84.00	84.00	84.00	\$
Surface delay					\$
Sleeve cost	50.00	50.00	50.00	50.00	\$
Delivery cost					\$
Protection cost					\$
Pumping cost	50.00	50.00	50.00	50.00	\$
Service cost	200.00	200.00	200.00	200.00	\$
Seismic monitor	45.00	45.00	45.00	45.00	\$
Labor cost	200.00	200.00	200.00	200.00	\$
Other costs					\$
Cost / volume	0.82	0.81	0.63	1.02	\$/yd3
Cost / weight	0.38	0.37	0.29	0.47	\$/ton
Total cost	4,282.28	6,920.24	4,183.39	2,451.90	\$

2 ENTRY	1	2	3	4	units
File name	BCAUS1.BCA	BCAUS2.BCA	BCAUS3.BCA	BCAUS4.BCA	
+ DRILLING COST +					
Rock volume	5,200.00	8,533.33	6,666.67	2,400.00	yd3
Rock weight	11,394.36	18,698.43	14,608.15	5,258.94	ton
Total drill len.	1,290.00	1,320.00	1,290.00	1,260.00	ft
Drill factor	0.25	0.15	0.19	0.53	ft/yd3
Drilling cost/len	0.85	1.50	0.85	0.50	\$/ft
Drill cost/volume	0.21	0.23	0.16	0.26	\$/yd3
Drill cost/weight	0.10	0.11	0.08	0.12	\$/ton
Total drill cost	1,096.50	1,980.00	1,096.50	630.00	\$
Total cost	4,282.28	6,920.24	4,183.39	2,451.90	\$

3 ENTRY	1	2	3	4	units
File name	BCAUS1.BCA	BCAUS2.BCA	BCAUS3.BCA	BCAUS4.BCA	
Type of rock	LIMESTONE	LIMESTONE	LIMESTONE	LIMESTONE	
Spec. gr. rock	2.60	2.60	2.60	2.60	
Explosive used	ANFO	ANFO	ANFO	ANFO	
Total exp. weight	6,122.69	10,590.60	5,957.21	2,794.74	lb
Powder factor	1.18	1.24	0.89	1.16	lb/yd3
	0.85	0.81	1.12	0.86	yd3/lb
Energy / volume	117.74	124.11	89.36	116.45	/yd3
Energy / weight	53.73	56.64	40.78	53.14	/ton
Exp. cost/volume	0.47	0.50	0.36	0.47	\$/yd3
Exp. cost/weight	0.21	0.23	0.16	0.21	\$/ton
Total exp. cost	2,449.08	4,236.24	2,382.89	1,117.90	\$
Total cost	4,282.28	6,920.24	4,183.39	2,451.90	\$

4 ENTRY	1	2	3	4	units
File name	BCAUS1.BCA	BCAUS2.BCA	BCAUS3.BCA	BCAUS4.BCA	
+ COST / VOLUME +					
Total drill cost	0.21	0.23	0.16	0.26	\$/yd3
Total exp. cost	0.47	0.50	0.36	0.47	\$/yd3
Initiator cost	0.01	0.01	0.01	0.03	\$/yd3
Primer cost	0.01	0.01	0.01	0.04	\$/yd3
Surface delay					\$/yd3
Sleeve cost	0.01	0.01	0.01	0.02	\$/yd3
Delivery cost					\$/yd3
Protection cost					\$/yd3
Pumping cost	0.01	0.01	0.01	0.02	\$/yd3
Service cost	0.04	0.02	0.03	0.08	\$/yd3
Seismic monitor	0.01	0.01	0.01	0.02	\$/yd3
Labor cost	0.04	0.02	0.03	0.08	\$/yd3
Other costs					\$/yd3
Total cost/volume	0.82	0.81	0.63	1.02	\$/yd3
Total cost	4,282.28	6,920.24	4,183.39	2,451.90	\$

