

PRECISION BLASTING SERVICES

INTRODUCES

BREAKER VERSION 8.0

SOFTWARE FOR SIZE DISTRIBUTION PREDICTION

Blasters have always needed a tool which would enable them to predict the average fragmentation size and the fragmentation distribution of the blasted rock. This powerful software can save time and guesswork when a blaster needs to predict or change rock size distribution. The comparison of breakage and size distribution from one blasting pattern to another has always been difficult to assess. Now it can easily be done.

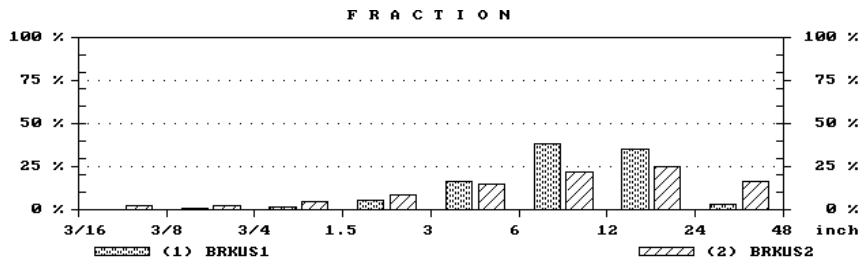
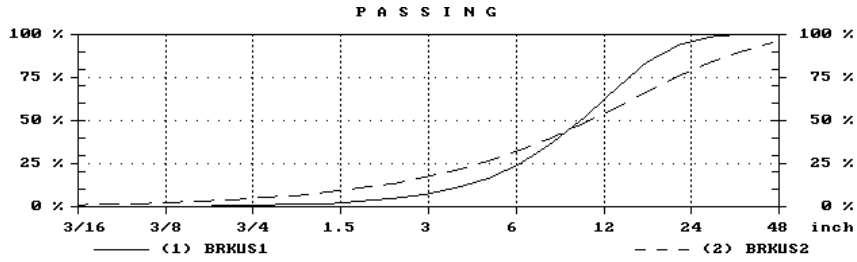
The Breaker software can predict and compare relative difference in fragmentation from one blast design to another. This software is based on calculations developed by authorities in the field. A fragmentation comparison is remarkably accurate when compared to actual sized materials from available sources, where all material was screened after the shot. Breaker can compare the changes in fragmentation as effected by many of the normal blasting variables, such as burden, spacing, bench height, and type of explosive used. The software will also work with two different explosives in the borehole. A scientific method to determine the effects of rock strength and geologic structure is also provided. Breaker will calculate the percentage, weight and volume of material produced in various size ranges, and display charts in the form of line and bar graphs.

The software conforms with the worldwide standard for the blasting industry and works both in S.I. (Metric) and U.S. Customary measurement units.



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SCREEN		Calculation based on Volume Strength						
SIZE		P A S S I N G			F R A C T I O N			
inch	Entry	yd ³	ton	%	yd ³	ton	%	
3/16	1	4	10	0.05	16	34	0.17	
	2	17	38	1.14	206	75	2.29	
3/8	1	16	34	0.17	40	87	0.44	
	2	34	75	2.29	205	75	2.27	
3/4	1	55	122	0.62	139	304	1.54	
	2	69	150	4.57	398	145	4.43	
1.5	1	194	426	2.16	473	1,037	5.26	
	2	135	296	8.99	747	273	8.30	
3	1	668	1,463	7.42	1,477	3,236	16.41	
	2	259	569	17.30	1,305	477	14.50	
6	1	2,144	4,699	23.83	3,413	7,479	37.92	
	2	477	1,045	31.80	1,976	722	21.96	
12	1	5,558	12,178	61.75	3,140	6,881	34.89	
	2	806	1,767	53.76	2,260	825	25.11	
24	1	8,698	19,059	96.64	302	662	3.36	
	2	1,183	2,592	78.87	1,509	551	16.77	
48	1	9,000	19,721	100.00				
	2	1,435	3,144	95.64				
1		Average size = 10.03 in		Fragmentation index = 1.820				
2		Average size = 10.79 in		Fragmentation index = 1.011				



SCREEN

Calculation based on Volume Strength

SIZE cm	Entry	P A S S I N G			F R A C T I O N		
		m ³	t	%	m ³	t	%
.5	1	4	11	0.05	14	37	0.17
	2	15	40	1.13	180	78	2.22
1	1	14	37	0.17	34	87	0.41
	2	30	78	2.22	173	75	2.14
2	1	48	124	0.59	112	292	1.39
	2	59	153	4.36	332	144	4.10
4	1	160	416	1.98	368	957	4.55
	2	114	297	8.46	617	267	7.61
8	1	528	1,374	6.52	1,122	2,918	13.85
	2	217	564	16.07	1,075	466	13.28
16	1	1,651	4,291	20.38	2,698	7,016	33.31
	2	396	1,030	29.35	1,655	717	20.44
32	1	4,349	11,307	53.69	3,150	8,190	38.89
	2	672	1,747	49.78	2,001	867	24.70
64	1	7,499	19,497	92.58	600	1,560	7.41
	2	1,006	2,614	74.48	1,527	662	18.85
128	1	8,099	21,057	99.98			
	2	1,260	3,276	93.34			
1		Average size = 30.14 cm		Fragmentation index = 1.756			
2		Average size = 32.20 cm		Fragmentation index = 0.988			

