

## Calculation Of Drilling And Blasting Parameters For Quarry

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*underground blast design-2 Powder Factor calculation for Surface mine Blast Design Blasting technique*  
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Published: Macquarie Park, New South Wales: Australian Drilling Industry Training Committee, 1999.  
Physical description: 46 p. Access item: Request Item from NCVER

### **Calculations and terms used in drill and blast operations ...**

A new method has been developed for calculation of drilling-and-blasting operations parameters during mining with emulsion explosives application, which results in minimization of energy ...

### **(PDF) Method for calculation of drilling-and-blasting ...**

calculation of drilling and blasting parameters for quarry ... Presplit blasting Spacing = Hole diameter x 12 Burden = 0.5 x production blast burden (B) Uncharged length at top = 10 x D Powder factor = 0.5kg per square metre of face Do not stem holes.

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## Calculation Of Drilling And Blasting Parameters For Quarry

Drilling and Blasting Method Sequences 1- Drilling Before the blasting takes place, the drilling rig bores the drill holes - determined in advance in a blasting plan - in the foremost front wall of the tunnel (working face). The more solid the rock, the more explosives are required.

### Drill and Blast Method

Calculation of Specific Drilling and Specific Charge are in the program based on Rock Volume per Blast. In turn the Rock Volume is based on Width of the Blast, which means the distance between the first and last

### BLASTEC - Orica

Blasthole diameter (D): Generally, the cost of drilling and blasting decreases as hole diameter increases. The relation between blasthole diameter and face height is approximately:  $D = 0.001 \text{ to } 0.02 H$   
Burden (B) : This is the distance in metres from a blasthole to the nearest free face and has the following approximate relation:  $B = 25D \text{ to } 40D$

### H BLASTING IN SURFACE EXCAVATION

1. Calculation sheet-drill pattern dimensions for average and alternative blasting conditions..... 9 2. Blasting pattern dimensions for Ohio, Adams County, Quarry No. 1... 11 3. Blasting pattern dimensions for Ohio, Highland County,

### Designing Blast Patterns Using Empirical Formulas

The rock can be measured either by first excavating the overburden off it or by observing the drilling and measuring the depth of overburden they're drilling through. Both you (or your inspector/soils tech/surveyor) and the contractor should be involved in gathering the measurements jointly.

### Rock Blasting Volume Calculations - Earthwork/grading ...

rock type that are located on the route of the tunnel, preliminary analysis and calculation have been made, which allowed safe blasting during excavation the tunnel. The active length of the tunnel is 600 m, and the profile size of 64.97 m<sup>2</sup> (DAM-EXPLO, 2014). Presented in this paper are only some ways of calculating, and drilling - blasting works,

### SOME METHODOLOGICAL DRILLING - BLASTING PARAMETERS IN THE ...

and blasting. In drilling, there is now available advanced use of GPS guided drilling systems that

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continue to grow and improve precision and efficiency. Drill depths are accounted for more accurately, making it easier to assign the right amount of explosives in blasting. New GPS-enabled applications have improved strata recognition capabilities that

## **BEST PRACTICES IN DRILL AND BLAST**

Software for calculation of drilling-and-blasting operations NITRO SIBIR has developed an original "NITRO SIBIR Software Package" for calculation of rational drilling and blasting parameters and evaluation of the results of multiple explosions.

## **Software for calculation of drilling-and-blasting ...**

The calculation of rock blasting should always have in mind that the methodology of calculation of all drilling and blasting parameters in blasting performance are performed for certain average conditions. For a particular locality (mine, block or bench) the calculation of the parameters is the initial value that practically have to be verified ...

## **Calculation of drilling and blasting parameters in blasting ...**

The standard method for blasting rocks was to drill a hole to a considerable depth and deposit a charge of gunpowder at the further end of the hole and then fill the remainder of the hole with clay or some other soft mineral substance, well rammed, to make it as tight as possible.

## **Drilling and blasting - Wikipedia**

If the boreholes are inaccurate, freezing of the muck can occur with re-drilling by remote as the only remedy for re-blasting. The calculation of void space can be expressed by the following equation;

## **Raise Design and Operations Blasting**

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## **Calculation Of Drilling And Blasting Parameters For Quarry**

217 blasthole drilling 171 99 9 Rlactino nattpmQ for tiinnplQ 218 18.8 The attempt to correlate drilling indexes 94 Ti/nplypcsKJLcCUL /ifpiifd aliUc CalLUiallULQTiH pialfiilQtinl Ul LlinirCf Ulaot tfi21p9 hlactd c with the blasting design parameters 171 4 94.4..09 ^IZ/i^UipiUCU Rniiinmpnt fr\r miirlcinfr

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## **DRILLING AND BLASTING OF ROCKS**

The drilling and blasting parameters used in the design of blasting was varied and the cost of drilling and blasting was determined for each parameter used. The sensitivity analysis was performed to determine the variation in cost of drilling and blasting at varied parameters on the base case of NPV (Net Present Value).

## **The Effect of Drilling and Charging Design on Cost of ...**

In semiarid regions of the southwest United States, drilling costs may represent as much as 80 percent of the total drilling and blasting costs, mainly because of utilization of the lower cost explosive.

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