



How to calculate the length of the rock drill rope

How do you calculate the length of a drilling line?

For example, if the ton-miles is 2000 and the drilling line diameter is 1.5 inches on a 30 inch drum, the length of line to cut would be 100 feet. We take content rights seriously. If you suspect this is your content, claim it here. $T_r = \text{ton - miles}$ $D = \text{depth of hole, ft}$ $T_d = 3 (T_2 - T_1)$ $T_d = 2 (T_2 - T_1)$ $T_{ST} = T_6 - T_{57}$ Excess Weight

How many feet of drilling line should be cut off?

Tables A and B provide the ton-miles per foot for different rope diameters and drum sizes to calculate how many feet of drilling line should be cut off given the ton-miles. For example, if the ton-miles is 2000 and the drilling line diameter is 1.5 inches on a 30 inch drum, the length of line to cut would be 100 feet.

How should a drilling line be inspected?

Daily visual inspection of the drilling line should be made for broken wires and any other rope damage. 4. Avoid accumulating more ton-miles between cuts than the maximum shown on the program for your rig even on the first cut of a new line.

What are the different operations performed by a drilling line?

The various operations performed (drilling, coring, fishing, setting casing, etc.) subject the rope to different amounts of wear. o For an accurate record of the amount of work done by a drilling line, it is necessary to calculate the weight being lifted and the distance it is raised and lowered.

How do you determine how fast a drill is drilling?

Determine how fast the drill is drilling based on the spindle speed and feed per revolution. The penetration rate in drilling is the linear speed at which the drill advances through the material. To calculate it, we first need to obtain the Feed per Revolution (F_n), which is the distance that the drill travels during one complete spindle rotation.

What are the characteristics of a rotary drilling rig?

OPES FOR ROTARY DRILLING OPERATIONSThe various lines for rotary drilling rigs require a complex balance of wire rope characteristics: abrasion resistance, crush resistance, fatigue resistance, VISIBLE CLEARANCE BETWEEN STRANDS*Each rig is different, of course, but the chart below provides general guid

Common ratios include 5:1 or 7:1. How long should rope and chain be for anchor? The length of rope and chain for anchoring depends on various factors such as water depth, ...

What is the "How Much Rock Do I Need Calculator"? The "How Much Rock Do I Need Calculator" is a simple yet powerful tool designed to calculate the total weight of rock required for any ...



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The document discusses suspension ropes used for lifts/elevators. It covers standards, configurations, replacement criteria and measurements. Key points ...

The rope capacity refers to the maximum length of wire rope that can be safely wound onto the drum. This capacity is determined by several factors, including ...

The drill tip length calculator helps determine the precise length of a drill bit's tip, which is crucial for achieving accurate hole depths in various materials. This calculator takes into account ...

Calculators Metallic Area/Elastic Stretch Calculator This calculates the metallic cross-sectional area in a rope and then uses this information to calculate elastic stretch in a rope that occurs ...

The Rope Selection Calculator serves as an initial guide to selecting a rope. Based on the input of desired strength, fibre and construction, the calculator returns the theoretical weight, diameter ...

The "pullback capacity" is a calculated value based on the dimensions of the main pullback cylinder and the hydraulic system pressure. It ...

Following the UIAA standard for rock anchors, in-hole bolt depths must be at least 5 times the hole diameter (not including the external bolt length assigned for the hanger, washer and nut). ...

Choosing the Right Climbing Rope Diameter Whether you're a newbie or an experienced climber, you need to know the right diameter of climbing rope for your climbing ...

Free online drill bit calculator. Convert between inches, millimeters, and drill sizes. Calculate cutting speed, RPM, feed rate, and more. Complete guide to drill bit measurements and ...

The document provides calculations for determining the amount of work done (in ton-miles) for various drilling operations. It includes formulas for calculating ...

Drill Pipe Displacement Chart A drill pipe displacement chart provides a quick and convenient reference for the average volume of fluid displaced per unit length (e.g., barrels per ...

Step 2: Determine the length of each rope. The length can often be found on the installation layout. Step 3: Measure the diameter of the rope. If you don't have a measuring tool, the ...

The size of the jump rope is critical for your specific needs, so use these measurement recommendations to ensure you get the most effective ...



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The document describes how to calculate core recovery and Rock Quality Designation (RQD) from rock cores. Core recovery is the total length of ...

In this video I'll show you how to quickly estimate the length of ANY coiled object: rope, wire, cable, hose--anything that can be coiled into a circular shape. Not many people use the ...

This document discusses how to calculate core recovery and rock quality designation (RQD) of rock. It defines core recovery as the length of recovered core divided by the total core length ...

Floorhands often hoist and move drill pipe and other tools with a small-diameter wire rope on the rig's air hoist. Offshore, crewmembers rig wire-rope slings and lifting lines to cranes, which ...

Calculating Weight Exercises Use weights of common materials table on page 4 of this workbook to calculate the weight of a steel plate 4 ft wide x 10 ft long x 1/2 inch thick. Use the weight ...

Ton-miles value is a work of drilling line and it is one of important figure that need to be tracked carefully. Learn how to determine round trip ton ...

Where h is the vertical distance between two revolutions, circumference is the circumference of the rope wrapped around the pipe (here this is for a ...

Welcome to this engineering tutorial where we will explore the Cable Length Calculator from Sag, Span Calculator. Cable length calculations are essential ...

It takes more than the right wire ropes to operate your rigs. It also takes the right knowledge and experience. When you know the ropes - that is, how to choose, use and maintain each of the ...

Our jumping rope length calculator is designed to help fitness enthusiasts and athletes determine the optimal length for their jump rope based on their height and skill level. For a stands 5'6" tall ...

1.5 Specific Drilling/Charge 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, ...

The how long of a jump rope do i need a calculator? is useful, but remember to think about what you need too. Your jumping style, fitness level, and comfort can affect the best ...



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