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The Design and Fabrication of a Hydraulic Ram Pump (Hydrum) is undertaken. It is meant to lift water from a depth of 2m below the surface with no other external energy source required. Based on the design the volume flow rate in the derived pipe was $4.5238 \times 10^{-5} \text{ m}^3/\text{s}$ (2.7 l/min), Power was 1.273 kW which results in an efficiency of 57.3%.

Design and Construction of a Hydraulic Ram Pump; by ...

4/6/2013 · *Leonardo Electronic Journal of Practices and Technologies* ISSN 1583-1078 Issue 11, July-December 2007 p. 59-70 *Design and Construction of a Hydraulic Ram Pump* Shuaibu Ndache MOHAMMED Department of Mechanical Engineering, Federal University of Technology, Minna, Nigeriashuaibu_mohammed@yahoo.com Abstract *The Design and Fabrication of a Hydraulic Ram Pump ...*

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The hydraulic ram water pumping system has ability to pump water using gravitational energy or the kinetic energy through flowing source of water. This project aims to analyze and develop the water ram pump in order to meet the desired delivery head up to 3 meter height with less operation cost. The hydraulic ram is designed using CATIA software.

Ram Pump: Design, Sizing, Construction and Maintenance of ...

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140,000IDR 140,000IDR I Supply of material 18,083,000IDR102 Galvanised Iron Elbow 4" 1 120,000IDR 120,000IDR103 Flange 2 40,000IDR 80,000IDR II Transport from supplier104 ...

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L4W Guide to Designing and Sizing Hydraulic Ram Pump System

LAW Guide to Designing and Sizing Hydraulic Ram Pump System Page 3 of 6 Four Common Components of Hydraulic Ram System A hydraulic ram installation consists of a supply, a drive pipe, the ram, a supply line and usually a storage tank. These are shown in Figure 2. Each of these component parts is discussed below: 1. Supply.

Optimal design and performance analysis of hydraulic ram ...

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Hydraulic Ram Pump: Pump water with no electricity, no gasoline, just gravity! Sound crazy or impossible? Don't worry, it does obey the laws of physics, but I'll try to explain the operation later. This instructable shows how to build a fairly simple water pump that nee...

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the hydraulic ram pump by using the SOLIDWORKS software. From the calculation performed, the hydraulic ram pump designed with radius of 0.1m and length of 0.5m has high and reasonable efficiency. Its flow rate to the delivery tank is determined to be 0.00069m³/s and required about 20 days and 3

How to Build a Hydraulic Ram Pump : 9 Steps (with Pictures ...

This is called a Hydraulic Ram Pump. A Hydraulic Ram Pump transports water from a lower point to a higher point without using electricity, just air pressure and gravity. Above it depicts how the pump works the blue represents the water, the red represents the pressure spike, and the green represents the the lower pressure spike.

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water ram is about 57.3%. The author found that the total cost for the design and fabrication of hydraulic ram pump is cheaper than the current pumps. In addition, the other authors [6] have investigated hydraulic rams with self-built valves with two size of pressure chamber for high water supply.

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Determination of Hydraulic Ram Pump Performance ...

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HYDRAULIC CIRCUIT DESIGN AND ANALYSIS

HYDRAULIC CIRCUIT DESIGN AND ANALYSIS A Hydraulic circuit is a group of components such as pumps, actuators, and control valves so arranged that they will perform a useful task. When analyzing or designing a hydraulic circuit, the following three important considerations must be taken into account: 1. Safety of operation 2.

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"Hydraulic ram system." U.S. Patent 2,424,108, issued July 15, 1947. Mohammed, Shuaibu Ndache. "Design and construction of a hydraulic ram pump." Leonardo Electronic Journal of Practices and Technologies 6, no. 11 (2007): 59-70. Young, B. W. "Design of hydraulic ram pump systems." Proceedings of the Institution of Mechanical Engineers, Part A ...

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How does a hydraulic ram pump work? | HowStuffWorks

The basic idea behind a ram pump is simple. The pump uses the momentum of a relatively large amount of moving water to pump a relatively small amount of water uphill. To use a ram pump, you must have a source of water situated above the pump.

For example, you must have a pond on a hillside so that you can locate the pump below the pond.

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Atlas Ram Pump Construction and Parts

Atlas Ram Pump Parts The Atlas Ram Pump parts shown here shows everything needed to build the Atlas Ram. Only the concrete for the base and PVC glue is needed. The drive and delivery pipes are not part of the detail. The plans now call for heavy-duty US made valves (Simmons, 400 psi) although other brands can be used, and larger clack valves as ...

Engineering Essentials: Cylinders | Hydraulics & Pneumatics

1/1/2012 · Jan 1st, 2012. When hydraulic or pneumatic systems must produce linear motion, cylinders become their most important component by converting fluid pressure and flow to force and velocity respectively. A staff report. Download this article in .PDF format. The linear motion and high force produced by cylinders are big reasons why designers ...

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