



NUTECH

HYDRAULIC ROCK SPLITTER

With Higher Splitting Force



Electrical power pack



Petrol Powerpack



Diesel power pack



Splitting Force upto 413 MT (4048 kn)

Dust and Vibration free

Easy handling

Easy to transport

Splits in seconds

Controlled splitting

Dimensionally accurate working

We reserve all rights to change the design without prior information

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NuTECH

About the product

Highly Efficient, Most Economical & Safest Method for excavation of Rock & demolition of concrete

Introduction

Cost effectiveness, Power and safety makes the Hydraulic Rock & Concrete Splitters excellent alternative to conventional demolition techniques. It equally is the best alternative to where demolition by blasting is prohibited. Nutech Rock Splitters have been used with unprecedented success over the last two decades. High Quality, Reliability & Durability of Nutech Rock Splitters is evident from its popularity not only in India but even in the neighbouring countries.

Principle of working of Splitter

Basic principle, on which the Rock Splitter works is "Wedge Principle", wherein the Force on the Rock is applied from within as against other conventional methods where the force is applied externally. Rock and Concrete have lower Tensile Strength, which makes it much easier to demolish the Rock, which underlies the efficiency of the Splitter. A hole of requisite Diameter and Depth is drilled on the Rock/concrete and the Wedge set is inserted into the hole in retracted position. Hydraulic Pressure applied to the Center Wedge forces the Counter Wedges against the wall of the hole with a force of over 400 Tons, which causes the material to split and also thin reinforcements in the concrete.

Splitter Advantage

Powerful

With a SPLITTING FORCE of over 400 tons it causes the hardest Rock to give way. In concrete the Steel Reinforcement of upto 18 mm also snaps.

Economical

Unlike in blasting, there is no need of additional over head expenditure for safety from flying debris, which requires elaborate safety arrangement alongwith safety equipment. There is no loss due to stoppage of work.

Noiseless

Unlike in Blasting or in the other conventional methods of demolition, Splitter is absolutely noiseless-- **NO NOISE POLLUTION.**

Safe to Operate

SAFE TO OPERATE, Splitter works in a silent environment with no flying Debris, hence no safety arrangements are required. Can be used in built up areas without any imminent danger to inhabitants.

Easy Portability and Transportability

Due to being **Light & Compact**, entire Unit can easily be shifted from one place to another within the Site and can also be transported in a LMV.

Easy to Operate

NON-SKILLED can easily operate the Splitter with minimal training. Light weight design enable the operator to work on the Splitter single-handedly.

Accurate

unlike in the other demolition methods, Splitter provides maximum accuracy in demolition of the Rock, Marbles and Granites with least amount of wastage.

Environmentally Friendly

When using Splitters there are **NO VIBRATIONS, NO DUST, NO NOISE** as also no other side effects. This makes Splitter extremely User Friendly and Environment Friendly.

ZERO Maintenance

Due to its robust design and all the moving parts working in Hydraulic Oil, which provides lubrication, **virtually no maintenance** is required and is also **durable.**



Splitting Cylinder

Type	Drill Hole Dia (mm)	Depth (mm)	Splitting Distance (mm)	Splitting Force (tons)	Weight (Kg)	Overall length (mm)	Length of Wedge Set (mm)
XS-14	45-48 mm	610 mm	20-40 mm	413 tons	33 Kg	1300 mm	380 mm

Electrical Powerpack

Type	Fuel Used	Rating(HP)	Weight(Kg)	L*W*H (mm)	Pump Capacity (lpm)
XE4	Electric	7.5 HP	125 Kg	840X650X700	4-6 lpm

Petrol Powerpack

Type	Fuel Used	Rating(HP)	Weight(Kg)	L*W*H (mm)	Pump Capacity (lpm)	Volume Of Tank (ltr)
XP4	Petrol	4-6 HP	55-65 Kg Approx	660X460X480	2-4 lpm	5-6 ltr

Diesel Powerpack

Type	Fuel Used	Rating(HP)	Weight(Kg)	L*W*H (mm)	Pump Capacity (lpm)	Volume Of Tank (ltr)
D4	Diesel	6HP-8.3HP	95-125Kg Approx	840X650X750	4-6lpm	8-10 ltr

Technical Data

Applications

Rock Splitter being versatile equipment, can be used for a multitude of applications

- ▲ Demolition of Rock & Concrete (non-reinforce & reinforced concrete)
- ▲ Demolition in extremely cramped spaces
- ▲ Trenching for Cables and Pipe lines
- ▲ Tunneling Jobs
- ▲ Secondary Splitting of Rock Boulders
- ▲ Road Construction including Road widening
- ▲ Enlarging work in underground mining
- ▲ Marble, Granite and Sandstone industries
- ▲ Pile Cutting Jobs
- ▲ Underwater Demolition

