

Adjustable Hydraulic Mining Prop

Hydraulic mining props offer adjustable support for mine roofs and walls in underground operations. These props are designed to withstand significant loads, ensuring safety and stability.



Product Overview

Safety Support System

The single hydraulic prop acts as a constant resistance support system designed for underground coal mines. By working in tandem with steel roof bars, it provides reliable initial supporting force and maintains stability under variable geological pressures. Its advanced internal valve mechanism allows for automated pressure relief, ensuring consistent load-bearing capabilities during mining operations.

Technical Specifications

Operational Features

- Constant resistance support mechanism
- One-way valve fluid injection
- Automated three-use relief valve
- High-pressure hydraulic operation

Operational Cycle

Stage	Description
Initial Loading	Injection nozzle pushes fluid to lift the plunger and engage the roof bar.
Active Support	Cavity pressure matches pump pressure to establish initial supporting force.
Pressure Relief	Relief valve opens when load exceeds rated capacity to prevent structural failure.
Constant Resistance	Fluid outflow maintains the rated operation load despite ground movement.

Available Model Range

DW12, DW14, DW16, DW18, DW20, DW22