

Hydroprop™

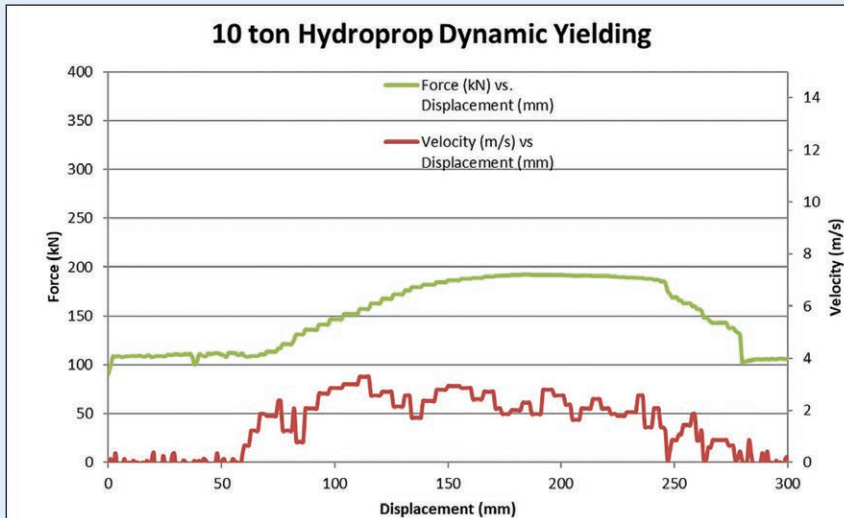
Re-useable Roof Support for Temporary Support

The Hydroprop™ is a yielding, re-useable stope walling support prop that can be remotely installed and removed. Its structure is manufactured from a two-steel tubing system which allows for efficient temporary support to stope walling when water is pumped into it.

- The Hydroprop™ tubing system is hydraulically set by extending telescopically to the roof
- It supports any required excavation height
- The inlet (fill-valve) is a non-return valve capable of tolerating large amounts of debris
- The prop is installed and pre-stressed using conventional pre-stress pumps*
- Pre-stressing up to a maximum load of 10 metric tons
- The prop yields under dynamic loading conditions and is equally stable under static loads of up to 10 tons before yielding
- It is designed to transfer water from lower (outer) tube into upper (inner) tube during yielding
- A complimentary tool has been designed to remotely release the inlet valve and collapse the prop
- The releasing mechanism applies a force equivalent to 300kg to release pressure within the Hydroprop™ vessel
- The Hydro-Prop is available in 10 metric ton yield and at various lengths from 0.9 meters to 3.2 meters at max extension

** As used for pre-stressing pods, pack pre-stress plates, and other water pre-loaded elongate supports used in underground mines*





ADVANTAGES

- Lightweight and low maintenance
- Efficient telescopic install - approx, 45 sec pumping time
- Stable dynamic yielding and no creep under static conditions
- Remote installation and release. Reusable
- Consistent loading preventing uneven loading on hanging wall

STRATA P/N	WEIGHT (KG)	HEIGHT (M)
HP1110	20	0.9 TO 1.1
HP1210	21	1.0 TO 1.2
HP1510	25	1.2 TO 1.5
HP1810	29	1.4 TO 1.8
HP2110	33	1.6 TO 2.1
HP2310	35	2.0 TO 2.3
HP2510	37	2.1 TO 2.5
HP3210	46	2.2 TO 3.2
HP3510	47	2.4 TO 3.5

FEATURES

- Water inflated – Cannot be over-inflated or over-stressed
- Dynamically and statically tested
- Swivelling headboard
- Optional blast protection sleeve
- Coated to prevent rust (Optional)
- Patented two-way pressure relief valve
- Pressure safety relief system inside
- Compatible with full range of Mine Support Products (MSP)
- 10/20 ton prop accessories and pre-stress pumps
- Performance exceeds standard requirements set by CSIR's Mining and Technology for Rock Burst Control
- High-grade materials are specified and selected for optimum balance of cost, strength, corrosion and ease of fabrication



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