

SYLVESTER PROP WITHDRAWER

1 'NMC' Prop puller primarily is meant for pulling the props etc. from goaf area. Alternatively it can be used for felling the trees, pulling the machines.

2. **CONSTRUCTION :**

The Prop puller comprises tested steel sword or toothed ratchet bar. a short chain 900 mm. long is permanently attached to it through a swivel connection. Sliding block of malleable cast iron houses in its recess usually 4.5 mt. long pulling chain. A pulling handle provides a leverage of about 30 to 1.

3. **CERTIFICATION :**

'NMC' T.C. shall accompany the supply.

4. **OPERATION :**

- 4.1 Check the availability of spare Chain.
- 4.2 Attach spare chain to the next prop to be withdrawn, so that it is not necessary to go under roof which may be unsettled.
- 4.3 Start withdrawing with most remote prop and then the others in turn working towards safe roof at all times.
- 4.4 Holdfast assembly is to be used to enable the full length of the ratchet bar to be re-used without releasing the load., in case the prop has not been made sufficiently loose in first travel.

4.5 To withdraw props offering adequate resistance to the roof i.e. approaching 15 tonnes, by a direct pull is beyond the capacity of devices based on sylvestor principle. A twisting hook (see sketch) of 30 mm round with forged prongs provides 50 mm leverage in the beginning making withdrawal easier.

5. **SPECIFICATION :**

- a) Weight of Sylvester m/c 15 kg.
- b) Weight of 4.5 mm x 10 mm Chain with hook 10 kg.

M. S. CHAIN		
I.S. SPECIFICATION	2429 (P.1) 1970 GRADE - 30	
SIZE	10 mm	12 mm
S.W.L.	11.8 kn.	17.0 kn.
PROOF LOAD	23.6 kn.	34.0 kn.
MINIMUM BREAKING LOAD	47.1 kn.	67.8 kn.
WEIGHT / METRE	2.16 kg.	3.10 kg.

