

Omni 89 Remote Temporary Support Installation System with Netting

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Discussions

- Why was the Omni 89 system developed?
- How would this system benefit the customer?
- Specifications on the Omni 89
- Pictures
- Short video (How does it work?)
- Any questions?

Why was the Omni 89 system developed?

- To enhance safety for the people underground doing support installations and mining of ends and panels. A similar temporary support installation system was seen in Australia by Craig Maul from Mototolo mine, and we were approached by Craig to develop a temporary support tool that can not only install temporary support from a safe distance under a well supported area, but also install safety nets at the same time.

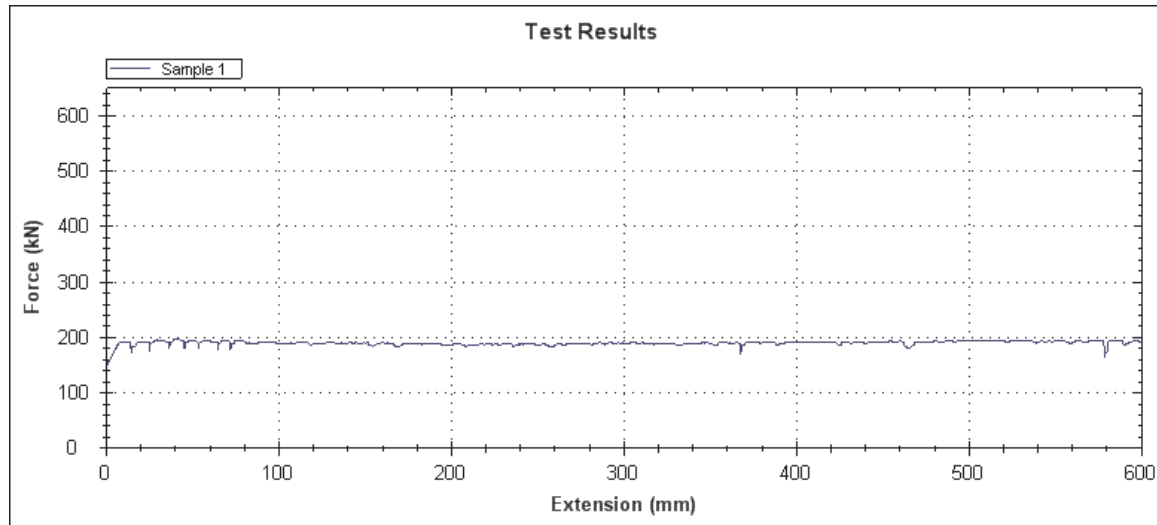
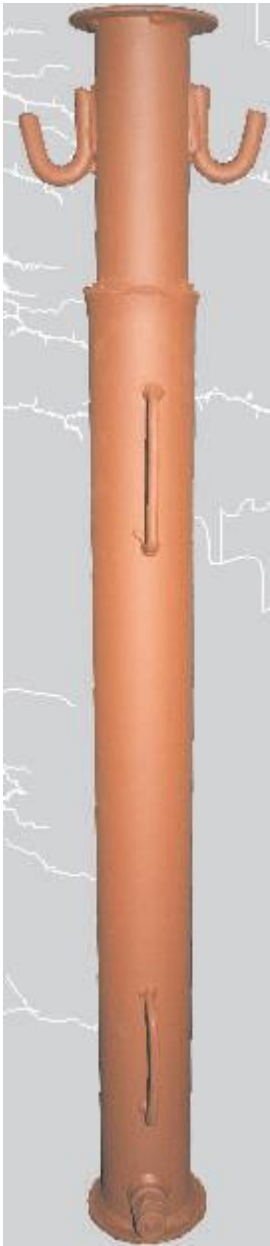
This tool offers the end user the following benefits:

- Remote temporary support installation
- Safety netting installed at the same time as temporary support installation.
- Development end (8m x 2m high) supported with 4 props and steel safety net in not more than 10 minutes for a complete installation.
- No people underneath unsupported rock during temporary support installation
- Easy to install from a safe area
- Ensure safety of our people
- Can be safely removed and used again.

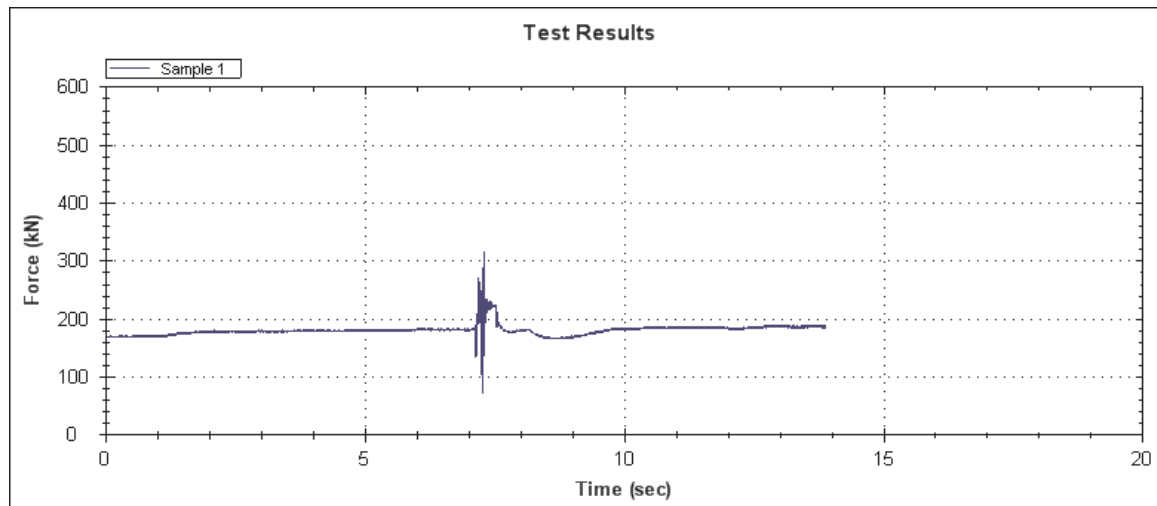
Other important information

- 89mm diameter temporary support prop
- Controlled yielding
- Self remote installation
- Superb energy absorption
- Light, easy and quick to install
- Constant support resistance
- Cannot be over extended
- Resilient to rock burst conditions
- Can be reinstalled if necessary (saving wastage)
- Only pump required to set

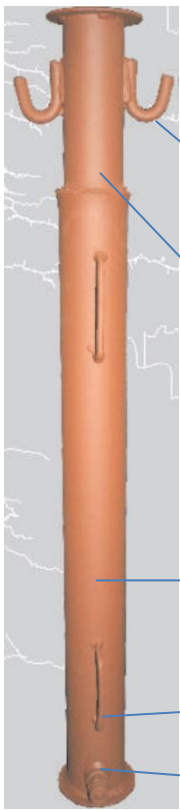
Specifications



Yielding Graph



Dynamic Graph



Omni 89 specs continue

Netting hooks : carry 2 ton load

76.2 mm Diameter pipe ,4.5mm wall thickness

88.9 mm diameter pipe ,5mm wall thickness

Yield valve set to carry load up to 20 tons

Filler valve

	Installation Length				Closed Length		Maximum Yield		Mass	
	Meters		Feet		Meters	Feet	Meters	Feet	KG	LBS
	MIN	MAX	MIN	MAX						
1	0.9 – 1.25		2ft11" – 3ft3"		0.87	2ft7"	0.38	1ft	18	77
2	1.1 – 1.5		3ft3" – 3ft11"		1.02	2ft7"	0.53	1ft8"	21	84
3	1.3 – 1.8		3ft11" – 4ft11"		1.22	3ft7"	0.63	1ft8"	25	97

Pictures of actual Omni 89 remote installation during a trial at Mototolo Mine



Filler pistol connected to filler valve



Guide bracket is then secured to the installed hydraulic jack



Guide rod and Hydraulic rod is secured to the unit requiring remote installation and moved forward along the guide unit to the desired position



Depicting guide bracket, extension rod and bracket and hydraulic hose connection



Completed installation of remotely installed hydraulic jacks with a safety net providing temporarily support access to affected area with safety net providing aerial coverage in the affected area

Video of Omni 89 remote installation



Any Questions ?

Quote from Craig Maule: ***“As per my observations and involvement with the product, I believe we have something which is easy to install and is a requirement for the safe access to unsupported areas for TARP Team members.”***