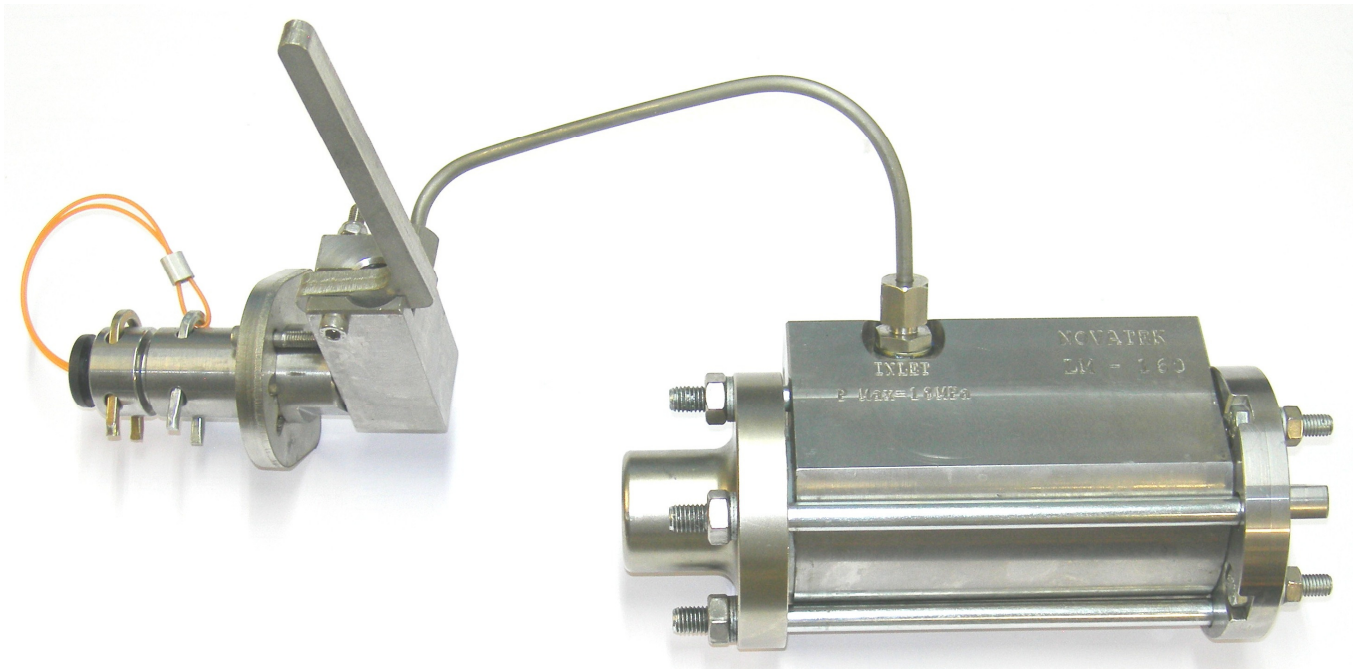

HYDROPOWER LINEAR MOTOR

*FOR APPLICATIONS REQUIRING A LINEAR RECIPROCATING
MOTION WITH SLOW-SPEED CONTROL AND HIGH FORCE
OUTPUT*

EG. PUMPING OF EMULSION EXPLOSIVES & GROUT





APPLICATION

The Novatek hydropowered linear motor is a reciprocating motor, single or double-acting that has a high force output and is capable of slow speed operation. This makes it ideal for applications requiring fine control, such as a driver for emulsion explosive pumps.

It has the following features:

- Simple on/off valve is required; various types may be used.
- The motor automatically cycles until the valve is released.
- The output piston reciprocates at the rate of about 1 Hz or less (depending on stroke length). This speed can be controlled via orificing.
- Force, stroke and speed can be changed within the design parameters.

The Novatek linear motor is used on the AEL hydropowered emulsion explosive loader. Details are available from African Explosives Limited (AEL).

Applications include:

- Pumping of emulsion explosives into blastholes.
- Pumping of grout into support holes.

SPECIFICATIONS

Working flowrate (l/s)	Typ 0.1 to 0.3
Normal working pressure (MPa)	13 to 16
Max working pressure (MPa)	18
Inlet fitting	NW 13 F staple-lock
Stroke length (mm)	Standard 50, other lengths on enquiry
Mass (kg)	11 for motor only
Dimensions	Standard 250 x 100 x 125 Dimensions are dependent on required stroke length and output force
Materials	Stainless steel, polymer seals, o rings

Note that specifications are subject to change without notice. Products are subject to patent protection.