

WATER POWERED JACKDRILLS AND STOPERS



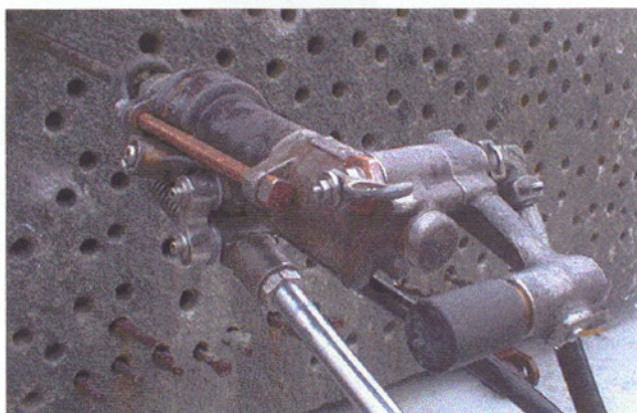
The Novatek **CanDrill** and **CanStoper** were developed with the Canadian mining industry to provide the benefits of faster drilling, increased productivity and improved health and safety which are possible from the use of **hydro-powered mining**.

Novatek water rockdrills are simple, robust, reliable and cost-effective. They are suitable for operation as jackdrills, for roof bolting and for rig-mounted operation. The drills operate at high drilling rates and ability in fractured rock is excellent due to independent percussion and rotation mechanisms. Low mass, excellent handling and ergonomic design increase operator productivity and safety; low noise levels 105dB(A) and low vibration levels greatly reduce the risk of occupational related illness.

Micro-hydropowered mining is the application of water-powered mining equipment on a small-scale. Typical applications include stoping, high-speed development, mining of pillars and remnant areas, new working areas or areas with poor air pressures. Localised water pumps are coupled to water drills to form production units of 1 to 4 working drills. The pumps are supplied with mine service water; approximately 65% of the drill exhaust water can be recirculated to the pumps. Water jet cleaning guns, rock loaders and other hydro-powered equipment can be powered by the same pumps.

Novatek has pioneered innovative mining technologies since 1979; water drills have been used in leading South African mines since 1991.

The Novatek CanDrill was specially developed for Canadian mining in collaboration with Soredem, Canmet and Hydro-Quebec.



Novatek CanDrills and CanStoppers are distributed in Canada and the USA by:



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FEATURES OF THE NOVATEK CanDrill AND CanStoper DRILLS

- Excellent handling – due to low mass, low thrust force, ergonomic design
low vibration
- Fast drilling rates – in all types of rock
- Improved drillsteel life – up to 25% due to low vibration and ease of handling
- No lubricants – no pollution
- Low noise output 105dB(A) – operator with earmuffs will have no hearing loss
- Low handle vibration levels – to reduce 'hand-arm vibration syndrome'
- Excellent visibility – due to the absence of exhaust fogging
- Simple maintenance
- Robust and reliable design

SPECIFICATIONS: CanDrill WATER-POWERED JACKDRILL

	HP VERSION	LP VERSION
OPERATING FLUID	CLEAR WATER	
OPERATING PRESSURE	14-18 MPa (2.0-2.6 ksi)	10-14 MPa (1.55-2.0 ksi)
JACKDRILL		
MASS	25 kg (55 lb)	
OVERALL LENGTH	660 mm (26 ") WITH STEEL PULLER	
DRILLSTEEL SHANK SIZE	22 mm AF x 108 mm (7/8 " AF x 4 1/4 ")	
FLOWRATE (NOMINAL)	55 l/min (2.0 cfm)	65 l/min (2.3 cfm)
FLUSHING WATER	EXHAUST FROM DRILL	
EXHAUST WATER RECIRCULATION	65 % CAN BE RECIRCULATED	
PENETRATION RATE	0.6 –1.0 m/min in Norite (2.0 – 3.3 '/min)	
AVERAGE DRILLING RATE	> 25m/hour in Quartz (> 82 '/hour)	
STALL TORQUE	> 200 Nm (> 148 ft lb)	
PUSHER LEG		
MASS	13 kg (29 lb)	
STROKE	1370 mm (2.46 ")	
RETRACTED LENGTH	1710 mm (24 ")	

Note that specifications are subject to change without notice.

SPECIFICATIONS: CanStoper WATER-POWERED STOPER DRILL

	HP VERSION	LP VERSION
OPERATING FLUID	CLEAR WATER	
OPERATING PRESSURE	14-18 MPa (2.0-2.6 ksi)	10-14 MPa (1.55-2.0 ksi)
MASS		
	37 kg (82 lb)	
OVERALL LENGTH	1610 mm (63.4 ") WITH STEEL PULLER	
PUSHER LEG STROKE	750 mm (2.46 ")	
DRILLSTEEL SHANK SIZE	22 mm AF x 108 mm (7/8 " AF x 4 1/4 ")	
FLOWRATE (NOMINAL)	55 l/min (2.0 cfm)	65 l/min (2.3 cfm)
FLUSHING WATER	EXHAUST FROM DRILL	
EXHAUST WATER RECIRCULATION	65 % CAN BE RECIRCULATED	
PENETRATION RATE	0.6 –1.0 m/min in Norite (2.0 – 3.3 '/min)	
AVERAGE DRILLING RATE	> 25m/hour in Quartz (> 82 '/hour)	
STALL TORQUE	> 200 Nm (> 148 ft lb)	

Note that specifications are subject to change without notice.

NOVATEK DRILLS (PTY) LTD

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