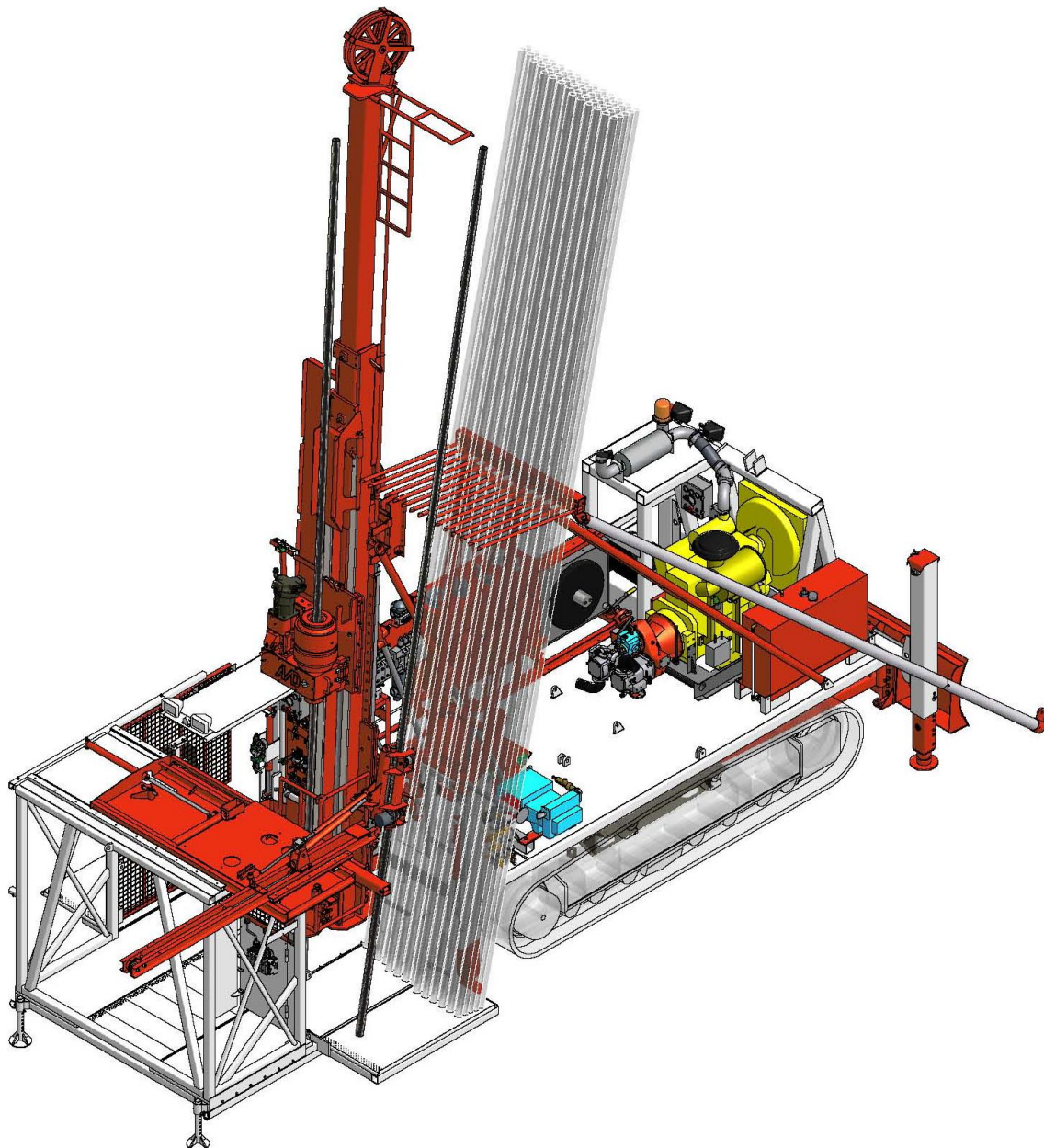
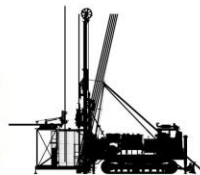


# CRAWLERS MOUNTED DRILL RIG

## VD6100PC



**Atelier  
Val-d'Or inc.**



1096 Rue Léo-Fournier  
Parc Industriel  
Val-d'Or (Québec) J9P 6X8

☎ 819-824-3676  
☎ 819-824-2891  
✉ [ateliervd@ateliervd.qc.ca](mailto:ateliervd@ateliervd.qc.ca)

## STANDARD TECHNICAL SPECIFICATIONS

<b>Model:</b>	VD6100PC
<b>Type</b>	Track-mounted, front driver console, rear operating platform, rod handler, all hydraulic chuck drive core drill, specially designed for diamond core drilling up to the rated specifications.
<b>Track type</b>	CATERPILLAR 320CL (500mm triple grouser track shoes)
<b>Max. travel speed</b>	3 mph (4.8 km/h)
<b>Maximum slope</b>	20%
<b>Maximum cross fall</b>	10%
<b>Drill mast</b>	Capacity to drill between 90° and 45°.
<b>Diesel engine</b>	The most frequently used power units are John Deere 275HP JD6090 Tier3 or Cummins QSB6,7 Tier 3 with a normal operating speed up to 2,200 RPM (operating RPM can vary depending on pump configuration and option chosen).
<b>Fuel tank capacity</b>	510 litres (134 US gal.)
<b>Pump drive</b>	FUNK triple pump drive (series 28000) with ratio 1.27:1
<b>Rotation head</b>	AVD (Atelier Val D'Or inc.) type with chain drive head for hydraulic chuck (customer choice) ratio 12/24 on "H" size head, and 12/29 on "P" size head. Max RPM: 1,350.
<b>Transmission</b>	FUNK 4-speed transmission (Ratio 1 <sup>st</sup> 6.63:1, 2 <sup>nd</sup> 3.17:1, 3 <sup>rd</sup> 1.72:1, 4 <sup>th</sup> 1:1)
<b>Head table</b>	Hydraulic cylinder is directly coupled to the rotation head carriage. The travel is 3m (10ft) or 3.3m (11ft). At 4,200PSI, push capacity is 12,628 kg (27,832 lbs) and pull capacity is 23,947 kg (52,778 lbs).
<b>Pull cylinder/Winch</b>	Hydraulic cylinder with 15,715 kg (34,636 lbs) of maximum pull at 4,200PSI, 26ft water swivel displacement OR Braden Winch with 6,805 kg (15,000 lbs)
<b>Water pump</b>	Standard BEAN 435 or PRATISSOLI KF40 (as per customer choice)
<b>Rod clamp</b>	BOYLES style for "B" to "P" sizes.
<b>Wireline winch</b>	Maximum capacity is 3,200m (10,498ft) for 3/16in wireline rope
<b>Hydraulic</b>	Full flow 25 micron BETA rated return oil filtration. Water/oil, air/oil hydraulically motorized and air/oil (optional, installed on the diesel engine) hydraulic coolers.
<b>Hydraulic tank capacity</b>	407 litres (115 US gal.)
<b>Maximum pull capacity</b>	39,662 kg (87,414 lbs) @ 4,200 PSI with feed and pull cylinder.(67,778 lbs with feed cylinder and winch)
<b>Overall weight of drill</b>	approx. 22,800 kg (50,000 lbs)
<b>Rod handler</b>	With Rollers Hand Configuration and HSS Rod Rack Comb (Bolted Fingers) for N,H and P Rod
<b>Rod rack maximum stacking capacity:</b>	

Rod size	B (Ø2.19")*	N (Ø2.75")	H (Ø3.50")	P (Ø4.50")
Qty ( 9-metre sections)	308	238	156	100
Depth in:	metres 2,772	metres 2,142	metres 1,404	metres 900
	feet 9,094	feet 7,028	feet 4,606	feet 2,953

\* : Optional B Add-On

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## STANDARD FEATURES

<b>Hoses Carriages</b>	Gortrac® Hoses Carriage For Drill Head Hoses and Rod Handler Hoses
<b>Mast Dump</b>	60in Travel Mast Dump
<b>Extension Locking</b>	Allow Mast Extension Locking from Floor Level for Safety Purpose
<b>Water Swivel Slide</b>	Removable from Floor Level for Rod Handler Operation
<b>Remote Pulleys Greasing</b>	Allow Mast Pulleys Greasing from Floor Level
<b>Feed Cyl. Burst Valve</b>	Stops the Falling of the Head in Case of Hoses Failure
<b>Platform Sidewalks</b>	Folding Sidewalks with Anti-Slip Cover
<b>Tracks Remote Control</b>	Allow to Move the Drill Via Radio-Controlled Remote
<b>Rear Platform Controls</b>	Allow Workers to Work in Closed Cabin when Using Rod Handler

## OPTIONAL FEATURES

<b>RACOR Fuel Filter</b>	Efficient Filter Added on Engine Fuel Line
<b>Cyclone Air Filter</b>	Efficient Air Filter Added on Engine Air Intake
<b>AVD "P" Rod Clamp</b>	Eliminates the Need to Remove the Jaws for Oversized Bits
<b>Casing Breaker</b>	Hydraulic Device to Break Casing Joints
<b>Casing Clamp</b>	Clamp that Holds Casing Below the Rod Clamp, Eliminates the Use of Pipe Wrench
<b>Casing Puller</b>	Rod Clamp Mounted on a Sliding Base w/ Hydraulic Cylinders for Additional Pull Power
<b>Floor Pickup Rod Handler</b>	Pivoting Rod Handler. Can Handles Rods Stacked Horizontally in a Sloop
<b>Front Dozer Blade</b>	With Floating Position for the Blade to Follow Ground Level

## ELECTRO-HYDRAULIC DRILL FEATURES

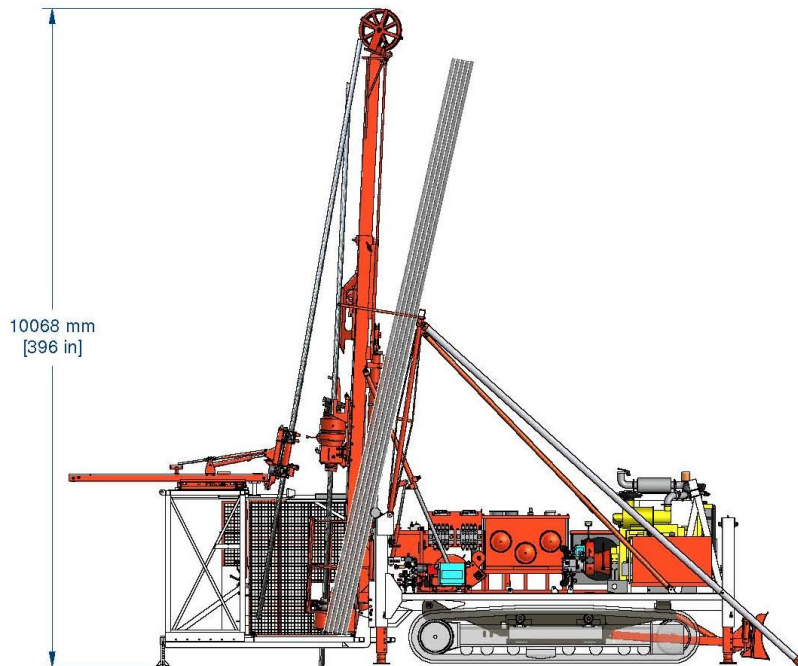
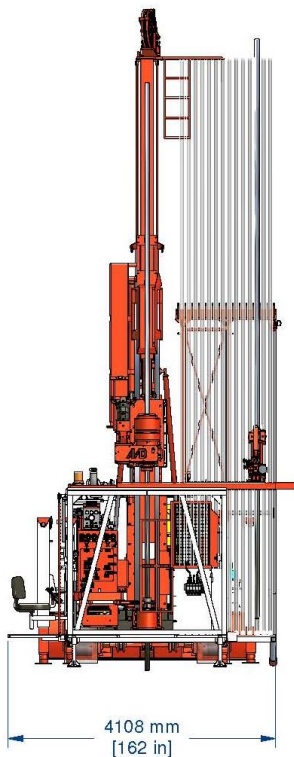
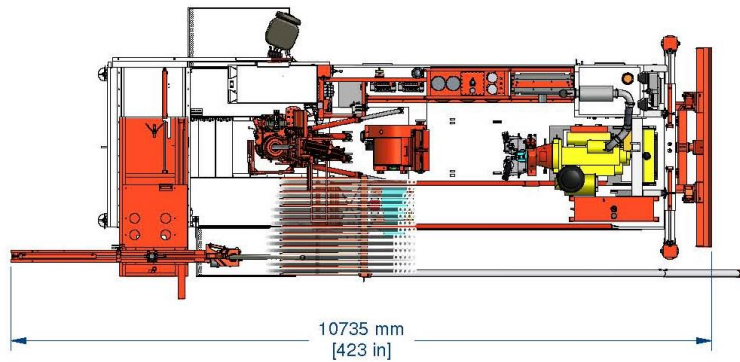
<b>Proportional Valves</b>	Fully Proportional Danfoss Hydraulic Components
<b>LCD Display</b>	6.5" LCD Display for Parameters and Feedback (Pressures, Water Pump, Wireline Position)
<b>Compact Work Console</b>	With Levers and Buttons to Operates Drill Rig Functions
<b>Feedback Sensors</b>	Drill Head Position, RPM and Bit Weight Feedback on LCD Display
<b>Cameras</b>	Shows the Wireline on LCD Display at Activation of Wireline Function
<b>Data Recording</b>	Keeps History of Machine Parameters for Supervision/Troubleshooting
<b>Chuck/Clamp Synchro</b>	Automates the Operation of Chuck and Rod Clamp When Rod Pulling
<b>Automatic Pulling</b>	Automatically Pulls Rods in 3m/6m or 9m Sections (Automates Feed + Chuck/Clamp)
<b>Automatic Drilling</b>	Drill Handles Drilling Automatically According to Set Parameters

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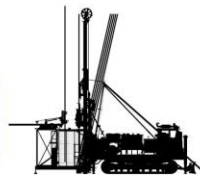
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## DRILL IN WORKING POSITION (Mast Shown at 90°)

(Note: the dozer blade shown here is optional)

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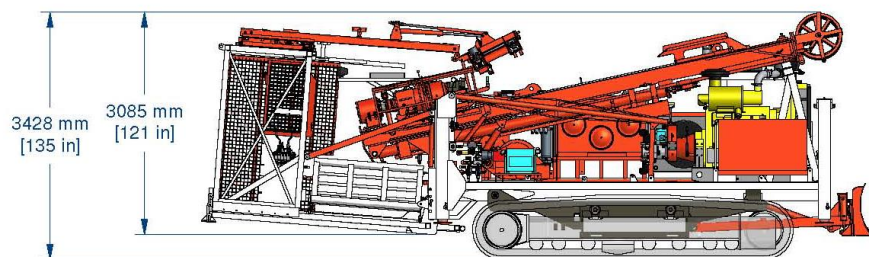
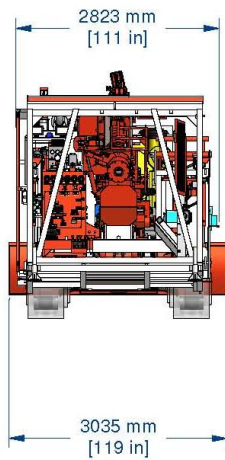
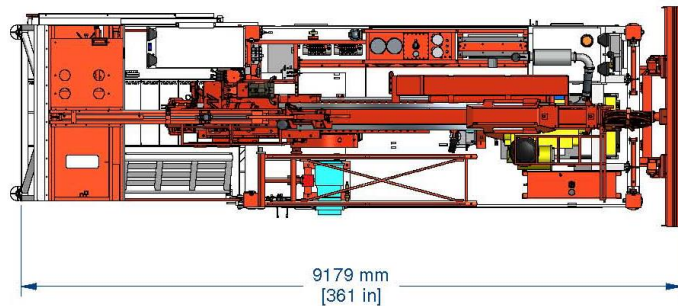
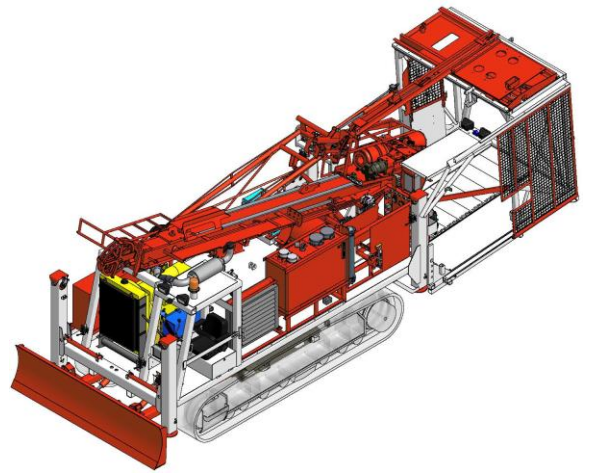
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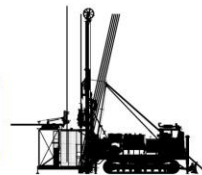




## DRILL IN TRANSPORT POSITION

(Note: the dozer blade shown here is optional)

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