HYDRACORE

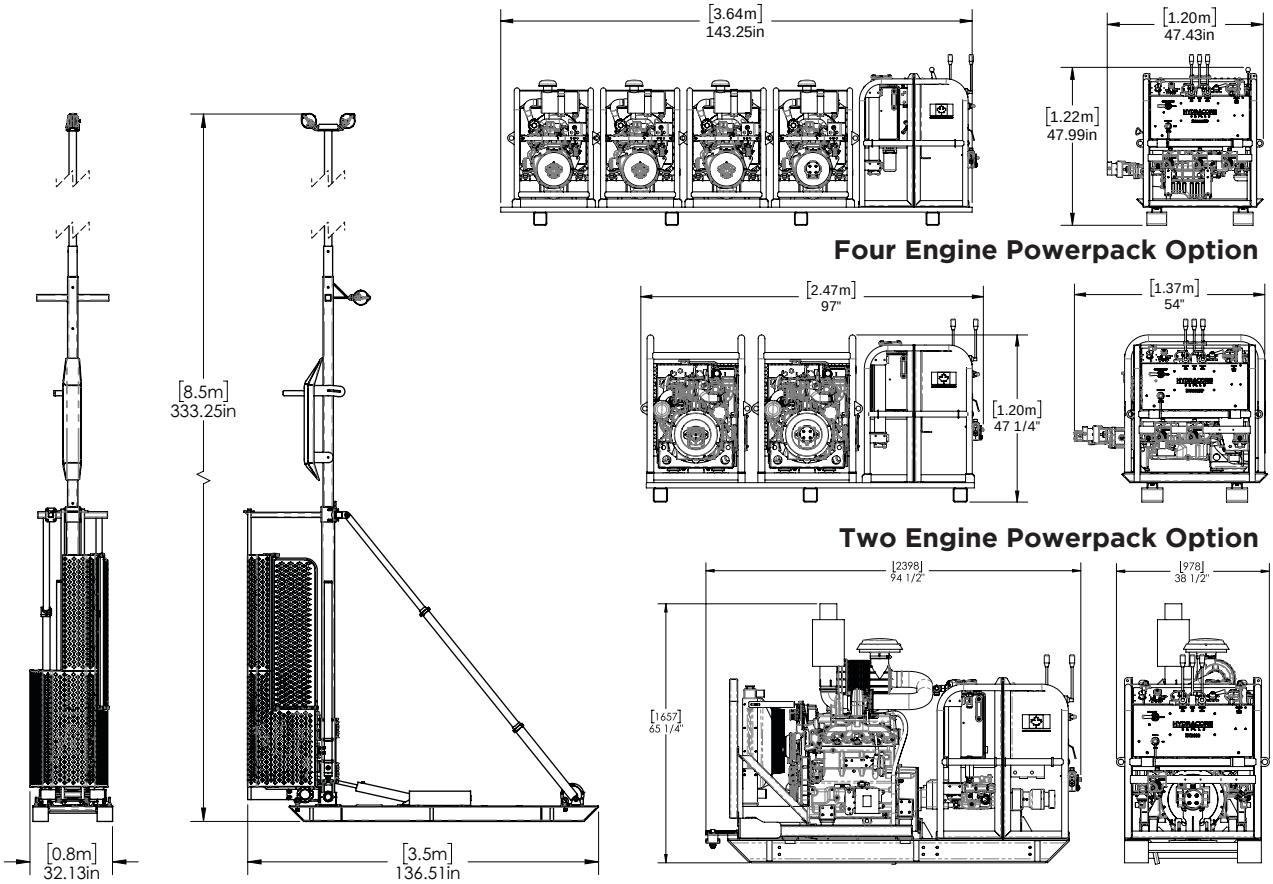
DRILLS

Making Drilling Easier Since 1975

SURFACE CORE DRILL HC2000

● RECOMMENDED ● MAX (DEPTH IN METRES)

Detailed Specifications



Four Engine Powerpack Option

Two Engine Powerpack Option

Single Engine Powerpack Option

HC2000	Imperial	Metric
Move Method	Truck, Helicopter & Manportable	
Drill Method	Core (B, N, H, P)	
Power (MP)	30HP x 4 engines = 120HP	90KW
Power (MP)	40HP x 4 engines = 160HP	120KW
Power (HP/Truck)	70HP x 2 engines = 140HP	105KW
Power (HP/Truck)	130HP single engine	97KW
Drill Torque	1250ft-lbs	1700Nm
Pull Back	24,000lbs	10,900KG
Feed Stroke	70"	1.78M
Rod Length	10ft	3M
Rod Pull Length	20ft	6M
Max. Weight/Move (MP)	580lbs	260KG
Max. Weight/Move (HP)	1100lbs	500KG
Drilling Angle	45 to 90 degrees	
Speed Range	500 to 1500rpm	
Total Weight	3860lbs	1750KG

"HP" Heli-Portable
"MP" Man- Portable

The Advantages of Hydracore's HC2000

BELT DRIVE VS. GEAR BOX

Most of the drill heads rely on a vertically oriented gear box which due to the extra number of moving parts is prone to failure.

Hydracore has solved this problem with an efficient hydraulic motor that provides optimum speed and torque. The Hydraulic motor lasts for five to ten years and is easily replaced in the field in one to two hours.

This means less chance of wear and failure. Therefore, more uptime and less maintenance costs for our customer.

ELIMINATE OVERHEATING ISSUES

In a chuck type drill head, large diameter bearings are used that create a lot of friction and a lot of power which could be used for drilling is wasted producing heat.

We have optimized our bearings to handle both the high speeds and high loads without creating excess heat, there are only three bearings in the entire head.

The reduction in heat and lack of gears and chains means we have eliminated the need for oil, lubrication pumps, filters and radiators. This is how our customers save money on their maintenance costs.

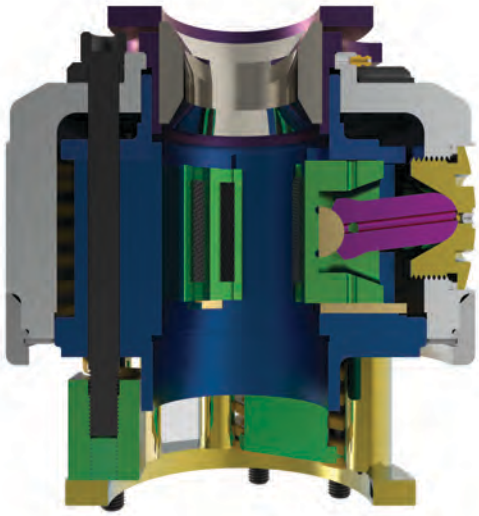
The Advantages of Hydracore's HC2000

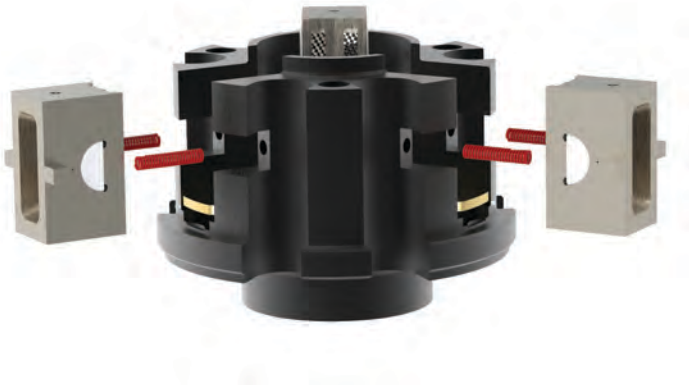
LINK CHUCK DESIGN

Typical chucks on the market use a taper mechanism to transfer spring force to the chuck jaws. Chuck gripping force is lost due to the sliding friction, this becomes worse with contamination from drilling.

Hydracore's unique 'H' type Link Chuck uses a link mechanism to transfer force efficiently to the chuck jaws. This mechanism is more efficient and provides consistent grip over time.

This increased efficiency results in more grip and reduced wear of the chuck body.





LINK CHUCK JAWS

Most chucks require you to change the Jaws to match each size of the Drill Rod. Each Jaw change takes at least 20 minutes of your time which is lost production time.

Hydracore's 'H' type Link Chuck uses the same set of jaws when drilling with A, B, N & H size drill rods.

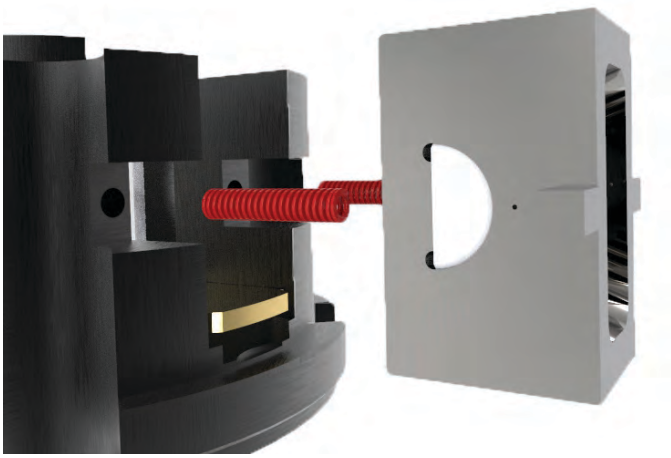
Saved Time = Saved Money for our Customers!

CHUCK WEAR PLATES

With normal use the chuck body wears, mainly at the bottom of the groves where the jaws fit.

Hydracore's 'H' type chuck comes with a replaceable aluminum bronze wear plate, a tough material. Therefore, instead of wearing the chuck body that costs about $2,500, the wear is on the small inexpensive wear plate.

This means less maintenance related costs and increased profitability for our customers.



The Advantages of Hydracore's HC2000

INDUSTRY'S MOST RELIABLE CHUCK

The industry standard drill head uses a central release cylinder and typically two release bearings. The bearings and piston seals fail in short order once the contamination passes the seals. It requires a complete disassembly of the chuck to repair the parts.

HC2000's head design does not require release bearings. The release cylinders used are externally mounted and designed to require a single piston seal. If a leak does occur the cylinders are mounted to the outside of the chuck and can be replaced in minutes.

This means less chance of wear and failure which results in more uptime and less maintenance costs for our customer.

TOUGH YET LIGHT WEIGHT DESIGN

Most drills with similar capability weigh two to three times as much as the Hydracore. Therefore, it becomes extremely costly to access the sites that cannot be reached by road.

HC2000 can be easily flown in sub 1100 lbs. loads that can be moved by a A-Star B2 helicopter.

Helicopter time is very expensive. HC2000 moving time is considerably less compared to other drills. You will realize repeated time and cost savings during mobilization and setup.

The Advantages of Hydracore's HC2000

ADJUSTABLE SADDLE BEARINGS

Drill Saddle bearings are subjected to wear from dirt and debris. The bearing surfaces must be replaced to fix excessive wear.

Keeping with our maintenance friendly designs our drills offer adjustable saddle bearings. These are adjusted in several minutes and will provide years of service.

The adjustable bearings increase your uptime and productivity.

FOOT CLAMP JAWS

Typically, the foot clamp jaws are replaced to accommodate for the variation in various sizes of rods, e.g., from a B to P size. The changeover time to swap the jaws to match the various drill sizes ranges from 15 to 20 minutes.

Foot clamp on HC2000 will hold B rod to PW casing with the same standard carbide tipped jaws, therefore, no jaw change is required to use different rod sizes.

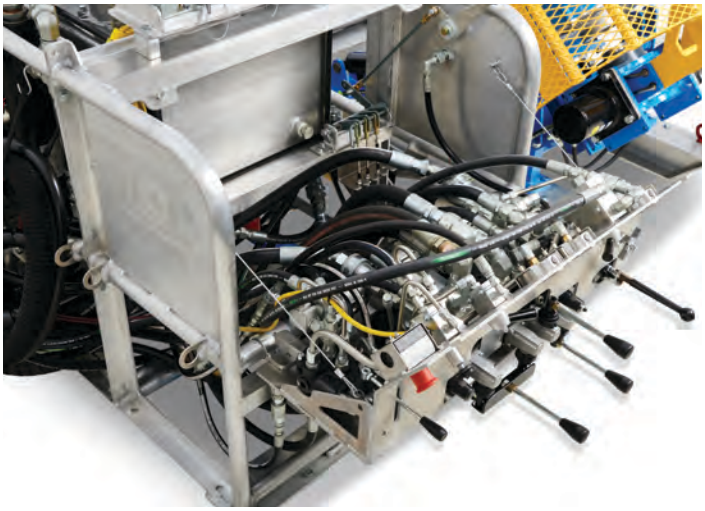
Therefore, incurs less maintenance and operational costs leading to increase in profitability for our customers.

EASY ACCESS TO THE HYDRAULIC PANEL

The Hydraulic panel on a drill consists of a complex system of valves, fittings, and hoses. These components are generally in a location that is very difficult to service. Therefore, performing hydraulic maintenance is challenging and time consuming.

Our innovative control panel is designed to hinge open and expose all these components for ease of maintenance and cleaning.

Our panel design increases your uptime and saves you money in maintenance.



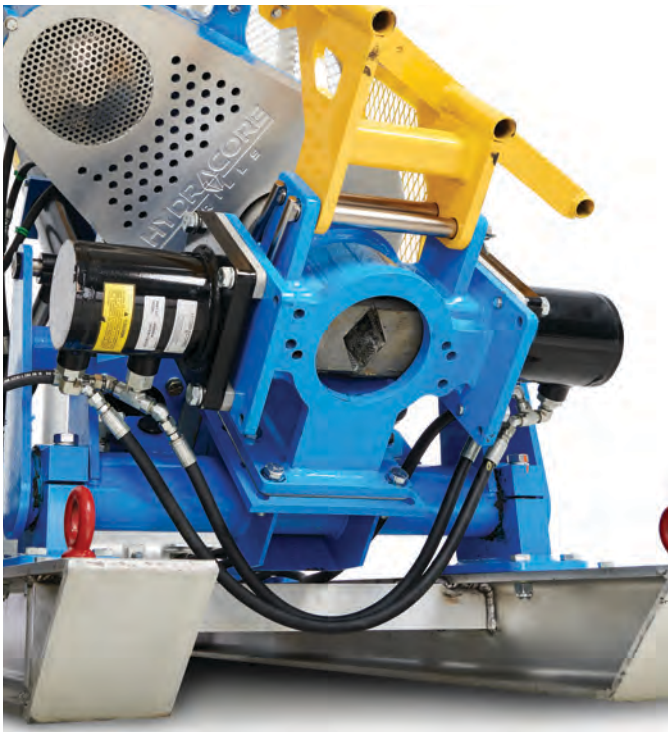
The Advantages of Hydracore's HC2000

LONG TRAVEL FOOT CLAMP JAWS

Most drills have limited foot clamp jaw travel and therefore require a tight-fitting steady bearing to prevent the jaws from rubbing on the rods. This tight-fitting steady bearing must be removed whenever the core-barrel is pulled, which is time consuming.

Hydracore's long travel foot clamp jaws give plenty of clearance between the rod and the jaws. Therefore, a very loose-fitting steady bearing can be used. This loose fitting steady bearing is designed for the core-barrel to pass through.

Less wear & tear on the drill rods and the jaws means longer life. The core-barrel passing through the steady bearing means time saved when starting the hole or pulling rods. Both these benefits will translate into lower operational expenses, increase in performance and profitability for our customers.



FAIL SAFE FOOT CLAMP TO PREVENT DROPPED RODS

A typical foot clamp has steel springs to provide the clamping force. Steel springs have limited life due to metal fatigue and overtime lose gripping force.

Hydracore's foot clamp is closed by a nitrogen gas accumulator. Using nitrogen gas is much more efficient compared to steel springs. The foot clamp closes automatically when the machine is shut down, ensuring a failsafe operation.

This results in avoiding any dropped drill rods and lower maintenance costs for our customers.

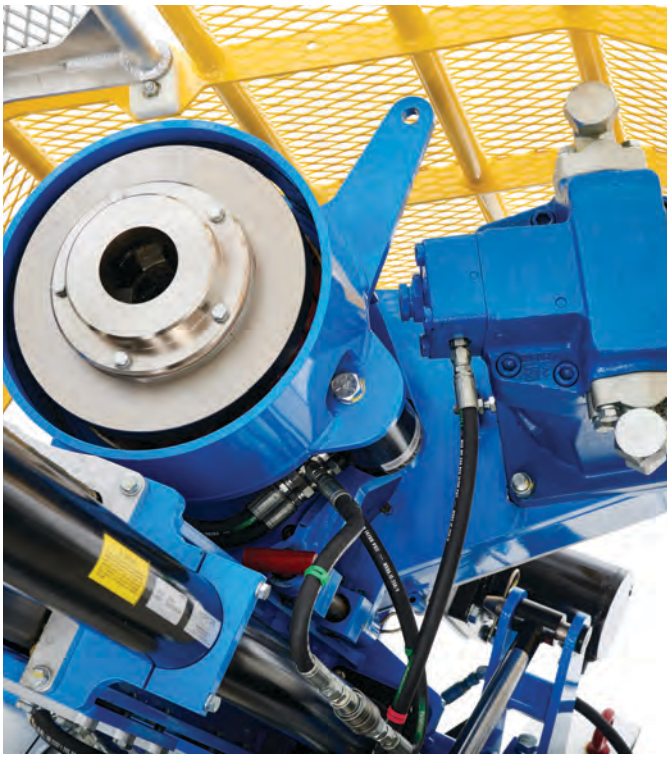
The Advantages of Hydracore's HC2000

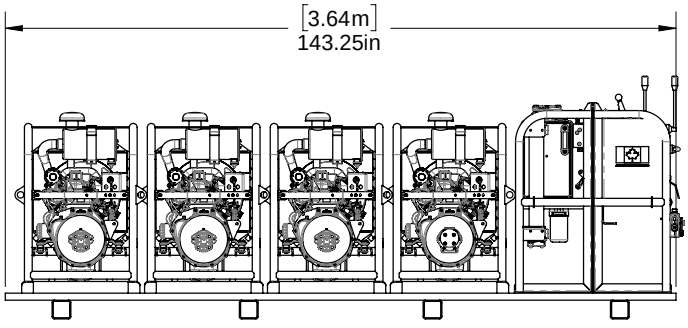
CHUCK DESIGNED FOR THE CORE BARREL

Many chucks do not open enough to grab the core barrel. This causes difficulty while starting holes, short "starting" core barrels must be used for the first couple of runs, which wastes time.

Hydracore's chuck is designed to be able to grab the core barrel. This eliminates the need for the "starter" core barrels, makes bit changes easier, and simplifies starting holes.

This saves on equipment costs, labor costs, and increases safety for your drillers.





FOUR ENGINE DESIGN, MAN-PORTABLE

Single engine drills, especially, with high horsepower rating are not suited to man-portable drilling. Therefore, it is very difficult to access the sites that are only reachable via trails.

Hydracore's 4 engine design was invented by its CEO/co-owner, Nigel Spaxman, in the early 1990's. Instead of moving a single 1500lb engine, we use four 300lb engines. The hydraulic system combines the power from all four engines for the power unit.

This design has made it possible to drill in remote areas which was not possible prior to this design. This saves on equipment costs, labor costs, and increases safety for your drillers.

Drills that are powerful, safe and reliable, helping you achieve lower operation costs, increasing your profitability and market standing.

PARTS WHEN AND WHERE YOU NEED THEM

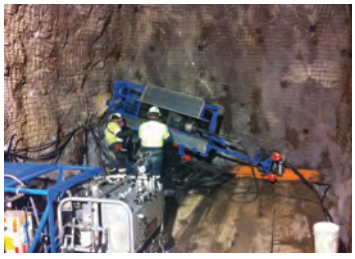
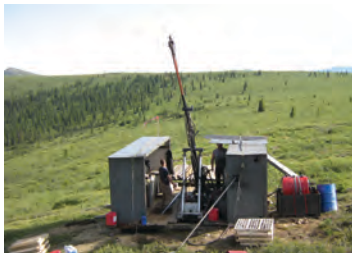
- We maintain a multi-million-dollar inventory of critical parts for the most of our products ensuring availability for our customers.
- All inventory is catalouged with our state-of-the-art ERP system.
- Our location (30 minutes from Vancouver International Airport) facilitates same-day air shipments.
- We are also located 30 minutes from the Port of Vancouver which eases scheduling for container shipments.

Drills that are powerful, safe and reliable, helping you achieve lower operation costs, increasing your profitability and market standing.

ALWAYS AVAILABLE WHEN YOU NEED US!

- Our commitment is 24/7 - we understand the importance and value of time.
- Lifetime phone and email support is included with all Hydracore equipment.
- Worldwide on-site start-up support is included with all drill sales.
- Worldwide on-site technical service is always available.
- The convenience of virtual service is always available.

HYDRACORE DRILLS ON THE MAP & IN ACTION AROUND THE WORLD

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