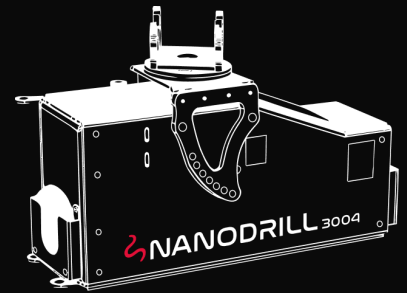


ULTRA-COMPACT HORIZONTAL DIRECTIONAL DRILLING

Cut your horizontal directional drilling costs **in half.**



Nanodrill is the ultra-compact directional drilling system that makes **short, complex bores** faster, with **less equipment, less disruption, and less overhead.**

50-65% LABOR HOURS SAVED PER BORE



FIELD SERVICE CONNECTION

01 · CREW

2 PERSON
SMALLER CREW, BIGGER MARGINS.

A two-person operation replaces the typical 4-6 person HDD crew.

02 · CAPEX

1.5t MIN.
RUN THE NANODRILL ON A MINI-EXCAVATOR.

Mounts on any mini-excavator 1.5 tons and up. No rig rental fees. No subcontractor costs.

03 · SURFACE

MIN. RESTORE
LESS DIG. LESS DAMAGE. MINIMAL RESTORATION.

Compact entry and exit pits mean drastically less surface disruption than conventional HDD drills.

04 · LOGISTICS

<15 MIN SETUP
FITS ON A TRUCK. READY IN MINUTES.

Transport the Nanodrill in a standard work truck. No flatbed or oversize-load permits needed like traditional HDD drills.

BUILT FOR ▶

- HOUSE CONNECTIONS
- STREET CROSSINGS
- DRIVEWAY CROSSINGS
- FIBER-TO-HOME
- GAS SERVICE LINES
- WATER & SEWER LATERALS
- CONFINED URBAN SPACES

KEY SPECS ▶

- DRILL RANGE: **100 ft**
- BEND RADIUS: **60%**
- ENTRY ANGLE: **0 - 45°**
- PILOT BORE: **2in**
- STEERING: **Radio Remote**

NEXT STEP

Schedule your free on-site demo. →

See Nanodrill bore on your crew's own job-site.

CONTACT

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01 The Bore Cycle

PROCESS · ~45 MIN/BORE AVG.

01 POSITION



Anchor & set entry angle.

Mount Nanodrill to the mini-excavator boom. Lower entry pit, anchor the tracks, dial in entry angle up to 45°.

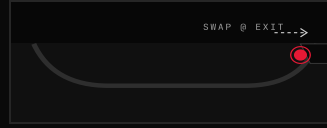
02 PILOT BORE



Steer the pilot head.

Flexible rods push the steerable head along the planned path. Surface operator tracks position with the locator and adjusts via radio remote.

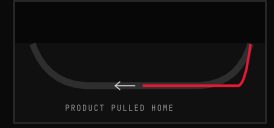
03 BACKREAM



Swap head, attach backreamer.

At the exit pit, remove the pilot head. Attach the backreamer plus the product line (conduit, pipe, or duct) to the lead rod.

04 PULL-IN

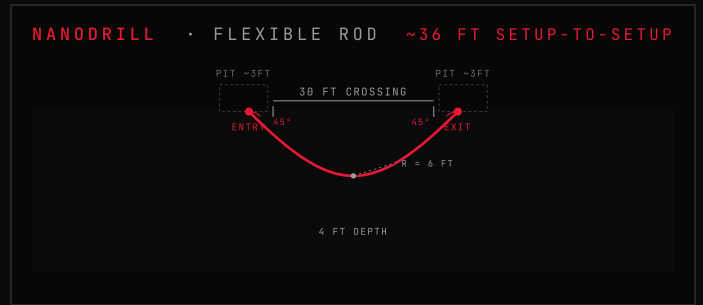
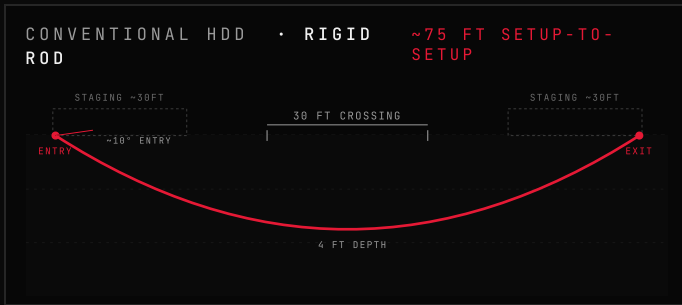


Reverse rods, pull product in.

Rods reverse direction, pulling the reamer + product line back through the enlarged bore. Disconnect at entry pit, bore complete.

02 Bore geometry — half the footprint.

CROSS-SECTION · 30 FT CROSSING @ 4 FT DEPTH



03 Full Specifications.

3004 MODEL

A · DRILLING PERFORMANCE

Max Bore Length	100 ft
Pilot Bore Diameter	2in
Backream Diameter	up to 6in
Bend Radius (max)	60%
Entry Angle	0-45°
Push / Pull Force	1,550lbs
Rotary Torque	225ft/Lbs
Rotation	360°
Rod Type	Flexible
Drill Stem / Rods	10ft

B · POWER & FLUID

Power Source	Host Excavator
Spindle Speed	0-200rpm
Mud Pump Pressure	0-725 psi
Mud Flow Rate	0-14 gpm
Mud Tank Capacity	235gal
Fluid Mix	Bentonite Std.
Steering	Radio Remote
Locator System	Walk-Over
Locator Depth	up to 15ft
Required Crew	2 operators

C · PHYSICAL & TRANSPORT

Mount	Mini-Excavator
Excavator Class	1.5 ton
Unit Weight	606 lb
Unit Dimensions	L 4.6 × W 2 ft
Launch Areas	Surface/Micro/Full
Transport Mode	Work Truck
Permits Required	None (DOT)
Noise Level	< 78 dB
Warranty	12 mo
Service Network	EGW · CONUS

Nanodrill vs. conventional HDD.

SHORT-BORE / SERVICE-CONNECTION CLASS

METRIC	NANODRILL	CONVENTIONAL MID-SIZE HDD
CAPITAL COST	~\$75K	\$150K - \$160K
ON-SITE CREW	2 operators	4 - 6 operators
MOBILIZATION	Work truck	Flatbed + permits
SETUP TIME	~10 min	1 - 2 hr
MAX. BEND RADIUS	60%	90 - 120 ft
SETUP-TO-SETUP FOOTPRINT	~3 × 3 ft pit each end	25 - 30 ft staging each end
BEST FIT	Service connections, urban, < 100 ft	Long crossings, > 300 ft