



**Manufacturers of
Bucyrus-Erie style
Well Drills and Parts**

Buckeye Drill's Model 1-W is the smallest, most compact and versatile drill in the product line. Simple setup and changeover permits drilling as either a Jetting, Hollow Rod or Cable Tool Drill. And, with modification, this powerful little machine may be converted to a Rotary Drill.

The 1-W drills 2-inch to 4-inch (50.8 - 101.6 mm) diameter holes to depths of 200 to 350 feet (61 - 106.7 m).

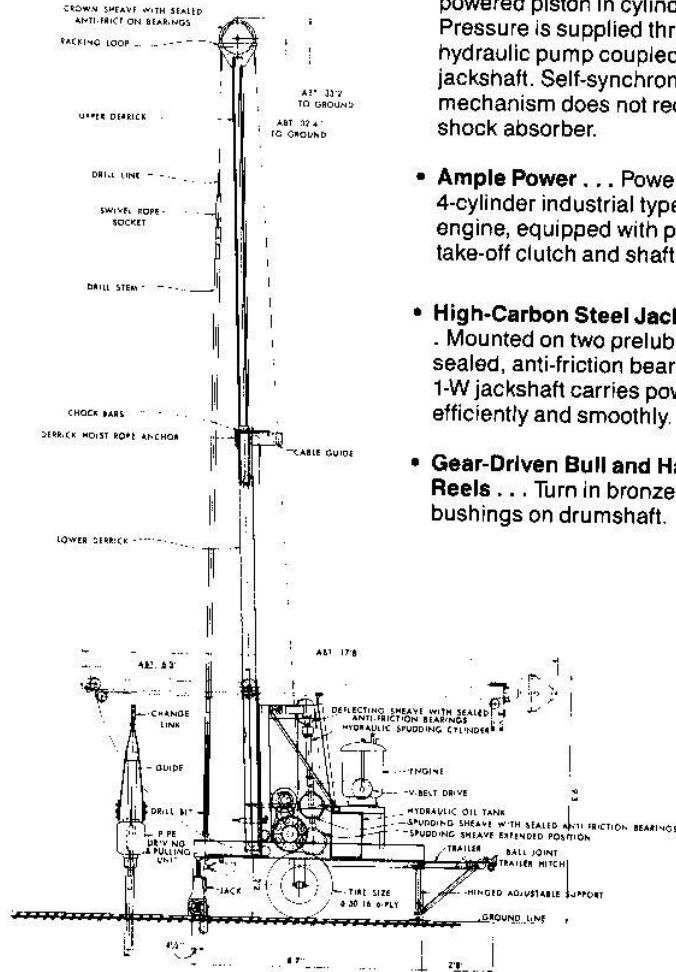
The Jetting and Hollow Rod methods both use a drill bit attached to a string of hollow drill rods. As the hole is deepened, additional drill rods are added so that the drill cable does not go into the hole as it does with the Cable Tool Method. Casing is driven simultaneously as the hole is deepened.

As a Jetter, the 1-W is faster and more efficient in sand or clay.

The Hollow Rod Method, similar to jetting, drills holes 2 to 3 inches (50.8 - 76.2 mm) in diameter to depths of 350 feet.

Standard Model 1-W features include:

- **Lightweight** . . . Weighing only 3,300 lbs. (1,496.9 kg), the 1-W will mount on a 3/4-ton or 1-ton truck or may be mounted on a small two-wheel trailer for hauling behind a small vehicle.
- **Compact** . . . The structural steel derrick requires no guy lines, therefore the 1-W is perfect for working in close quarters on well servicing jobs. Mast height is 32'4" (9.9 m).



- **Hydraulic Spudding Motion** . . . High-speed, free-fall drilling motion is obtained by reciprocating, hydraulically powered piston in cylinder. Pressure is supplied through hydraulic pump coupled to jackshaft. Self-synchronizing mechanism does not require a shock absorber.
- **Ample Power** . . . Power unit is 4-cylinder industrial type gasoline engine, equipped with power take-off clutch and shaft.
- **High-Carbon Steel Jackshaft** . . . Mounted on two prelubricated, sealed, anti-friction bearings, the 1-W jackshaft carries power efficiently and smoothly.
- **Gear-Driven Bull and Hammer Reels** . . . Turn in bronze bushings on drumshaft.

Dimensions (trailer mounted, mast down):

Length	17'8"	5.38 m
Height	9'3"	2.82 m
Width	6'	1.83 m

Weight:

Truck Mounted	3,300 lbs.	1,496.87 kg
Trailer	3,550 lbs.	1,610.27 kg

Mast Height

32'4"	9.86 m
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Sheaves:

Crown Sheave P. diameter.	14-1/2"	368.3 mm
Hammer Line Sheave P. diameter.	14-3/8"	365.1 mm
Deflecting Sheave P. diameter.	12-1/2"	317.5 mm
Spudding Sheave P. diameter.	10-1/2"	266.7 mm

Power Unit: 4-cylinder, gas, rated 13 net h.p. at 1800 rpm.

Jackshaft: Supported on two anti-friction bearings, prelubricated and sealed.

Countershaft: Turns in two bronze bushed bearings and carries drumshaft drive gear and pinion.

Drumshaft: Turns in three bronze bushed bearings. Drumshaft carries derrick hoist drum and jaw clutch; cone clutch with brake and gear; hammer reel and bull reel.

Bull Reel: Semi-steel casting with divider, brake housing and drive gear integral with drum.

Spooling Capacity: 1/2" (12.7 mm) line to 230' (70.1 m);
7/16" (11.1 mm) line to 315' (96.0 m).

Line Pull — bare drum	1,200 lbs.	534.3 kg
Line Speed — average	345 fpm	105.16 mpm

Hammer Reel: — Semi-steel casting with flange and brake housing integral with drum.

Spooling Capacity: 7/16" (11.1 mm) line, 300' (91.44 m),
3/8" (9.53 mm) line, 450' (137.16 m)

Line Pull — bare drum	1,200 lbs.	534.3 kg
Line Speed — average	345 fpm	105.16 mpm

It is the policy of Buckeye Drill Company to improve its products continually. The right is reserved to make changes in specifications or design which, in the opinion of this Company, are in accord with this policy, or which are necessitated by the unavailability of materials. The description herein is for the purpose of identifying the type of machine, and does not limit or extend the express warranty provisions in any contract of sale.

Buckeye Drill Company

One of the Buckeye Companies

999 Zane St.
P.O. Box 1190
Zanesville, OH U.S.A. 43702

(614) 452-3641

FAX 454-3311

