

# D-25 DRILL SPECIFICATIONS

All purpose drill rig for shallow soil and rock exploration, and monitoring well installation. Ideal for drilling in areas with low overhead clearance or difficult access.

## GENERAL

Rated for 3-1/4"(83mm) I.D. hollow stem auger to 50 ft.(16m) depth.

Standard penetration test 50-100 ft(16-30m) depth.

Rated to 150 linear feet (45m) of core drilling using N series tools.

## FRAME & BASE

The drill frame is a weldment, constructed of heavy wall rectangular steel tubing, with sufficient strength and rigidity for heavy duty use.

27 HP Kohler 2 cylinder, air cooled gasoline engine with 12 volt electric start.

## POWER SOURCE

18 HP Deutz(Rugerinni) 2 cylinder, air cooled diesel engine with 12 volt electric start.

(Dieselmatic cold weather kit available)

Clutch - 8"(203mm) automotive type.

## CLUTCH & TRANSMISSION

Three speed forward and one reverse.

## RIGHT ANGLE DRIVE

The right angle drive is a heavy-duty gearbox, totally enclosed and running in oil

## ROTARY BOX

The rotary box consists of a #60 two strand roller chain drive, totally enclosed and running in SAE 90W gear oil.

Spindle bore 2.375 I.D. (60mm)

Spindle travel 66" (1676mm) 1,778

Maximum gross spindle torque\* 2320 ft lbs to 3066 ft lbs  
(3145 Nm) to (4156 Nm)

## SPECIFICATIONS

Thrust up 9800 lbs. (43.6 kN)  
down 7300 lbs. (32.5 kN)

Maximum spindle speed\* 7 foward 3 reverse low range 46 RPM  
high range 652 RPM

\*varies with engine choice

## HYDRAULIC SYSTEM

On the D-25, oil is supplied by a heavy duty gear type two-section pump rated at 6 GPM(23l/min) & 12 GPM(48l/min) at 3600 RPM. Maximum operating pressure is 2000 PSI(13899k Pa).

The hydraulic valves are stock sectional body directional control valves with integral non-adjustable relief valve.

## AUGER ADAPTER

A heavy duty universal joint, which mounts to the spindle with a single nut, is provided for ease in hook-up and adjusting for misalignment, All components are sized to withstand torque and axial loads encountered under most drilling conditions. 1-5/8"(41.3mm) female hex is standard, other sizes available.

Over all Length - 102"(2603 mm)

## DRILL RIG DIMENSIONS

Over all width basic unit - 33 1/2"(851 mm)

Over all height(mast down) - 54 1/2"(1384 mm)

Over all weight(depending on options) - 2000-2800 lbs(816-1043kg)

# D-25 DRILL OPTIONAL EQUIPMENT

<b>MAST</b>	<p>The mast is approximately 14-3/4 ft(4.5m) from the bottom of the slide base. The mast is pivoted on the drill frame, permitting separation of the drill with the mast horizontal. Quick mast disconnect is standard. Sheaves are provided for the cathead rope and the winch cable.</p>
<b>CATHEAD</b>	<p>The cathead is hydraulically driven from the drill rig hydraulic system. The cathead drum is 6"(152mm) in diameter.</p> <p>Line pull.....1000 lb. (454 kg) Speed.....415 ft/min (126m/min)</p>
<b>HYDRAULIC HOIST</b>	<p>The hydraulic hoist utilizes a worm gear drive with a sealed case. Gears and tapered roller bearings run in oil. Housing and drum are designed to prevent fouling of the cable. Hoist is provided with a safety brake to prevent roll back.</p>
<b>SLIDE BASE</b>	<p>A hydraulically operated sliding base provides 16 inches (406mm) of travel to provide clearance for hoisting tools. The sliding base can be mounted on any flat surface of adequate size.</p>
<b>LEVELING JACKS</b>	<p>Jacks are available for rear and front mounting. Mechanical dropleg jacks with a 12"(305mm) drop and 13-1/2"(343mm) lift capacity are standard. Hydraulic jacks are also available.</p>
<b>TRAILER ASSEMBLY</b>	<p>Double axle trailers are available in 6000 lb.(2720 kg) and 9000 lb.(4080 kg) capacities for transporting and drilling with the rig. Steel ramps are provided for removing the rig from the trailer.</p>
<b>WATER TANK</b>	<p>Welded steel water tanks mount at the front of the drill platform</p>
<b>DRILL PLATFORM</b>	<p>Dimensions vary with the truck or carrier size. Welded construction consists of structural steel and deck plates. Running lights are included.</p>
<b>ROD RACK</b>	<p>Above deck rod rack and underbody rod rack are standard with drill platform. Optional rod storage under the water tank is also available.</p>
<b>AUGER RACK</b>	<p>Above deck auger rack is standard with drill platform. Underbody fixed or hinged auger racks are available.</p>
<b>TOOL BOXES</b>	<p>Tool boxes are available for above or below deck mounting in several sizes.</p>
<b>WATER PUMP</b>	<p>Pump is frame mounted and driven from the rig hydraulic system.</p> <p>Moyno 3L4.....variable speed</p>
<b>FEED FRAME SHEAVE MOUNT</b>	<p>The feed frame sheave mount bolts to the top of the feed frame to allow use of the cathead and winch when drilling with the mast horizontal. This permits drilling in 10 ft (3m) overhead clearances with a skid mounted rig.</p>
<b>SKID</b>	<p>The drill can be mounted on a steel skid with an overall length of 116"(2946mm) and a width of 48"(1219mm). The arm of the skid is removable for ease of drilling.</p>
<b>TOWING RACK</b>	<p>The towing rack mounts to the front of the main frame. This allows movement of a skid mounted rig in either direction using the hydraulic winch.</p>
<b>CASTER ASSEMBLY</b>	<p>Casters clamp to the skid frame for ease of movement on hard surfaces.</p>