

## Utilities

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Phone: 800-672-4911 Fax: 615-672-0733

8/2/2006

Quote Number: 61810024

Tallahassee Electric Operation  
2602 Jackson Bluff Rd  
Tallahassee FL 32301

Attention: Terry Lowe

Phone: 850-891-5531

Fax: 850-891-5162

Qty.	Description
1	Hogg & Davis Hydra 985 Cable Pulling Unit

General:

\* Single axle, cable pulling unit. Trailer to be engineered for safe, rapid, one-person operation. Trailer accommodates both underground and overhead power systems.

Ratings:

\* GVWR 21,350-lbs; GAWR 19,840-lbs.

Dimensions:

\* Length 198" (without options); Height 80"; Width 96"; Weight 7,020-lbs.

Reel Capacity:

\* Diameter 108"; Width 56"; Weight 14,000-lbs.

Frame:

\* Heavy duty boxed angle with boxed I-beam tongue.

Axle:

\* 20,000-lb capacity stub spindles with heavy duty Timken bearings for single wheel application.

Brakes:

\* 16" x 5" full air with ASS.

Tires:

\* 365/80R20 20-ply radial tires.

Rims:

\* 9:00 x 20 steel disc with 10 on 11-1/4" BC.

Transmission:

\* Fully hydrastatic with two forward and two reverse speeds. Capable of shifting on the fly from low to high without stopping pull in progress. Joystick controlled with microswitch activation to prevent inadvertent operation.

**Description****Hydraulics:**

\* 15 gallon hydraulic oil tank with full flow filtration on suction and return lines. 0-3000 psi auxiliary pressure gauge at the control valve bank. 0-5000 psi hydrastatic pressure gauge at the front control panel.

**Reel Drive:**

\* Capable of 24,000-lbs line pull at a 19" core diameter and 80" flange diameter reel. The drum drive is accomplished by 4 powered drive rollers that contact the cable reel flanges with up to 14,000-lbs of force. These rollers are adjustable for variable reel widths with a manually cranked screw.

**Drive Rollers:**

\* Two drive rollers per flange. Roller cores and rubber rings are machined for press fit tolerance and can be pressed on and off for ease of maintenance and replacement.

**Aux Power Shaft:**

\* Auxiliary power shaft located on curb side. Shaft is sized to accept standard type twist lock CR reels. Shaft is protected by cover and accessed through hinged door with latch.

**Hydraulic Loading:**

\* Mandrel lifting racks load reels up to 108" in diameter x 56" wide. Open yoke frame and multiple pocket lifts provide uniform ground clearance and allow reel to be carried low for better towing center of gravity. Lifts are stabilized and locked to relieve load from hydraulic system with weight transferred directly to main frame. Hydraulic cylinders to handle reels up to 20,000-lbs in weight.

**Reel Mandrel:**

\* 2-1/2" diameter ETD-150 solid steel bar with nylatron bearings, two tapered centering cones and locking collars.

**Tongue Wheel:**

\* Hydraulic powered, chain driven front idler wheel. The wheel is directionally controlled by means of a single joystick, allowing for mobility of the trailer without the use of another vehicle.

**Pintle Eye:**

\* Adjustable pintle eye with 3" ID Clearance - Holland Model NO.DB-1385.

**Jackstands:**

\* Two cadmium-plated, self adjustable, quick-release jackstands, one at each rear corner of trailer to distribute load along axles and frame when in use.

**Tool Boxes:**

\* Two lockable boxes mounted in front of fenders, one on each side with T-handle type latches.

**Fenders:**

\* 11 gauge steel, over and down each side of the tires.

**Mud Flaps:**

\* Two Hogg & Davis logo mud flaps, one at rear of each tire.

**Safety Chains:**

\* Two 1/2 " x 36" alloy steel with hooks. Premier #9 frame weldments.

...cty.

**Description**

**Wheel Chocks:**

\* Four rubber chocks 10" long x 8" wide x 5" high with handle.

**Lighting:**

\* Trailer to have stop, tail, turn and marker lights. Wiring to be per **Ice** specifications. At trailer tongue, install a 7-wire socket with 36" whip. All wiring to be enclosed in hard conduit in the trailer frame. Terminated to terminal blocks. All lights to be double shock mounted Lexan lens with pigtails (FMVSS108).

**Paint:**

\* Complete trailer grit blasted with GM50 size metal grit and primed with Sherwin Williams primer, with 2 finish coats of Sherwin Williams Genesis II paint to be a minimum of 3 mils in coverage. Parts are baked to final curing at 150 degrees for one full hour. All parts on the trailer are painted before they are assembled.

**Decals:**

\* Decals are made of printed, multi color Lexan. Adhesive to 3M 467MP.

**Warranty:**

\* Trailer mainframe warranty against defects in material and workmanship for a period of 15 years from date of shipment. Trailer to have a 15-month new equipment warranty on all other parts due to defect or workmanship.

**Manuals:**

\* Two manuals containing parts, service, and operations.

Grand Total:	\$76,858.00
<b>FET Tax</b>	\$0.00
Grand Total	\$76,858.00

**Options:**

Electric Brakes	Add \$4,378.00
* 16-1/2" x 5" Warner 12-volt electric brakes with emergency break-away.	
* In lieu of standard air brakes.	
Extra Width:	<b>\$9,983.00</b>
* 102" wide trailer to allow for carrying reels up to 60" wide.	
Fail Safe Brake:	<b>\$8,208.00</b>
* Dual caliper brake wi 16" ventilated disc. Spring applied hydraulic release.	
Feeder Tube Stow:	<b>\$1,750.00</b>
* Feeder tube storage along street side fender.	
Auxiliary Capstan:	<b>\$1,384.00</b>
~ Optional capstan is mounted on the street side rear fender. Approximately 100-fpm and 100-lbs line pull. Controlled by electric solenoid valve with detented micro switch.	

**Hydraulic Outriggers:**

**Add  
\$5,028.00**

\* Hydraulic operated rear stabilizers can be added in place of the standard mechanical jackstands.

**Hose Reels:**

**\$633.00**

Fender mounted, retractable, dual hydraulic hose reel with 25' hoses.

**Beacon Lights:**

**\$572.00**

\* Fixed or telescoping pole mounted amber strobe lights mounted at each corner of power unit screen.

**LED Lights:**

**\$748.00**

\* LED light package.  
\* In lieu of standard.

**Levelwind:**

**\$4,232.00**

\* Optional levelwind for winding cable onto drums. Controlled by electric solenoid valve with detented micro switch. The unit swings out of the way to allow for reel loading. Easily removed with pins and quick disconnects.

**Spare:**

**\$1,118.00**

\* Tire with wheel.

**.01 Circuit:**

**\$1,164.00**

\* Auxiliary hydraulic tool circuit available for light duty tool use. 10 GPM pump with quick disconnects at rear of trailer.

**Urethane Rollers:**

**\$1,044.00**

\* Four urethane drive rollers.

**Notes:**

1. Prices are FOB Shipping Point, delivery prepaid and included.
2. Prices exclude any applicable taxes or license fees.
3. Federal Excise Tax has not been included. A current exemption/resale certificate must be on file and provided with purchase order for tax exempt sale. Federal Excise Tax will be added if certificate is not supplied with order.
4. Terms: Net 10 days with pre-approved credit.
5. Quotation good for 30 days. Contact us for a possible extension if required.
6. Delivery from receipt of order approximately 210 to 240 days or 90 days after receipt of chassis, whichever is greater.
7. Terex Telelect is ISO 9001 :2000 Certified.

**Terex Utilities South – White House**

**Accepted By:**

**Order Coordinator—Josh Fawley**

**PO Number:** \_\_\_\_\_

**Account Manager –Charlie Mathews**

**Date:** \_\_\_\_\_



# HYDRA 985

Cable Reel Unit



HOGG & DAVIS, Inc.

**Designers &  
Manufacturers of  
Line Construction  
Equipment**

# HYDRA 985

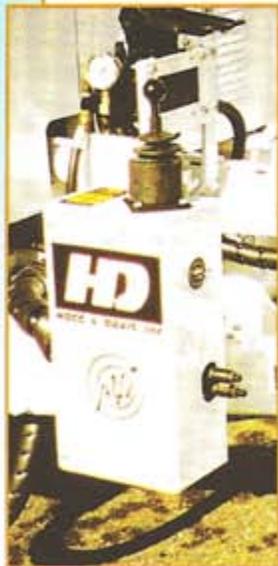
## MAIN CONTROL PANEL

Designed with the operator in mind and located at front curbside, the main control panel puts all engine and pulling controls and associated gauges within easy access of the operator. The single axis, proportional pulling control features the capability to "inch" or "creep" the cable being pulled, or provide full "brute" force for the toughest jobs. Micro switch activated, the pulling control is spring returned to a fully locked, neutral position. Merely releasing the control stick brings all pulling operations to a stop. The operator also has the capability of shifting the two-speed final drive "on-the-fly" without halting the pull. All switches and gauges are waterproof for operation in the toughest conditions. Full function gauges monitor oil pressure, water temperature, fuel level, and amps. A tachometer and hour meter are also provided as well as hydrastatic pressure gauge. An engine preheat indicator, control position switch and switches for optional functions complete the control panel.



## HYDRAULIC CONTROLS

Simple and easy operation is afforded with centrally located control valves. The lifting cylinders, power unit slide, drawbar height and Steer-Go power steering are all controlled from this position. All controls are spring returned to neutral and are positioned to indicate the direction of the function they control. A 0-3000 psi hydraulic gauge is provided at this position for easy monitoring. The Steer-Go power steering (located curbside) features a two-axis joystick control that controls steering and motion functions of the powered idler wheel.



## HYDRAULIC LOADING

Open yoke design and multiple pocket lifting racks provide uniform ground clearance and low center of gravity hauling for reels up to 108 inches in diameter and 56 inches wide. Lifts are stabilized and mechanically locked to relieve load from cylinders with weight transferred to the trailer mainframe. No supporting equipment is required during the loading process. Specially designed cylinders will handle reels up to 20,000 lbs.

## REAR CONTROL PANEL

Located at the rear of the curbside fender, these controls offer the operator a clear view for underground pulling operations. From this position the operator can control all pulling operations, engine throttle and hi-low speed functions. When the unit is equipped with an optional level wind for hydraulic tool circuit, those functions can also be controlled from this position. The rear control panel is electronically isolated from the front control panel by a switch that eliminates electrical backfeed or inadvertent activation of the front controls.

## LOAD ADJUSTABLE

The Hydra 985 easily accommodates reels up to 108" diameter and 56" wide. The power unit slides fore and aft hydraulically to adjust for varying diameters. The drive roller housings are easily adjusted for reel width by use of crank actuated screws.



## 24,000# LINE PULL

The Hydra 985 develops whatever pull is necessary to overcome the resistance on the line. Pulls up to 24,000 lbs. can be developed to handle the most stubborn pulling situations. Line pull ratings are "bare drum" ratings measured with a dynamometer and achieved on a Model 8050 Break-Away Reel. Ratings will diminish or increase depending on the size reel used, its flange width, core diameter and amount of line on the reel. High coefficient of friction rollers assure best performance possible on any given reel.

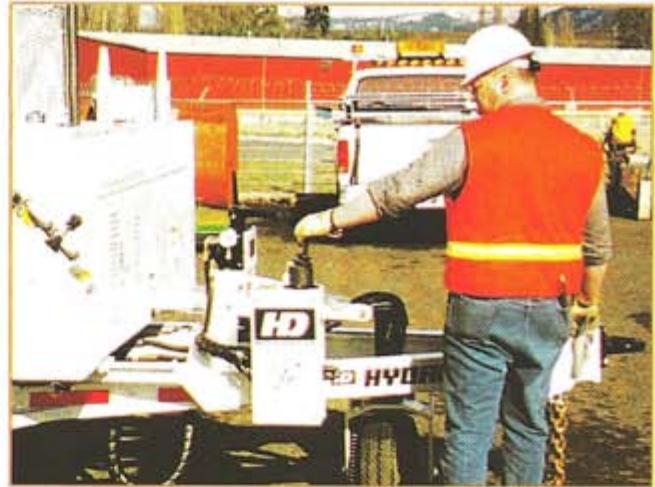
The selection of the HYDRA 985 as your cable-pulling unit can save hundreds or thousands of dollars on any given job. Line construction experts will tell you the highest costs of any job are in the "get ready" or set-up for a pull. Manpower and equipment required can eat up any job budget. That is why the self-loading, self-maneuverable HYDRA 985 beats the competition. Manpower is used efficiently and supporting equipment requirements are nearly eliminated. No other unit on the market can measure up in terms of overall job economy.

The "heart" of the HYDRA 985 is the horsepower efficient hydrastatic drive system that can create in excess of 24,000- line pull. Electric/hydraulic proportional controllers directly guide the powerful hydrastatic transmission through its paces. The closed loop system provides full pulling pressure to the two-speed final drive motor, offering slow, inching capability to all-out brute force.

The transmission also drives an auxiliary pump to handle the loading, maneuvering and optional hydraulic functions. All this power coming from a job proven water cooled diesel engine, featuring electric start, engine preheat and the name John Deere.

All these components are engineered into a tight, compact unit that features economical use of hydraulic hoses and lines that is totally hooded for safety with hinged doors for easy maintenance and service. The power unit slides fore and aft on UHMW lined tracks, greatly reducing lubrication requirements.

**OVERHEAD OR  
UNDERGROUND  
PLACEMENT OR  
REMOVAL**



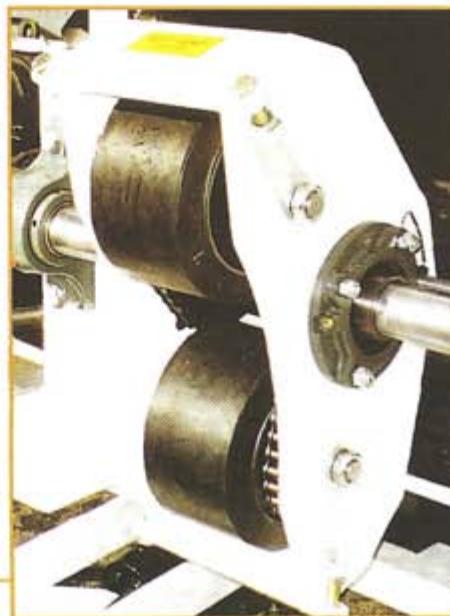
## SELF-MANEUVERABLE

The hydraulic powered idler wheel, first developed by Hogg & Davis, Inc., adds ease to job set-up—a truck is not necessary to position the unit. In the yard the unit can be easily maneuvered for loading and hitch-up to the truck. At the job site, the operator easily unhitches the unit and spots it easily for the pull. This allows the unit to go where the truck cannot fit—narrow alleys, sidewalks, underground parking structures, etc. This feature also greatly eliminates the fear of back injury associated with trying to muscle non-powered units into position.

## FRICTION DRIVE SYSTEM

Hogg & Davis' pioneered and proven friction drive system provides drive to the reel. Independent drive roller housings and center mounted power unit provide four-roller contact at all times, regardless of reel shape. The housings feature piloted flange bearings and chain slack adjusters, as well as chrome plated drive roller axles and drive shaft.

The drive shaft also provides power for an auxiliary capstan or CR reel.



## MAIN FRAME

- Fully boxed and reinforced, open yoke, "zero deflection" main frame
- Boxed and reinforced drawbar with replaceable towing eye and safety chains
- Fully welded fenders and integrated tool boxes
- Two-point T-handle latches w/locks and full length piano hinged tool box doors
- 20,000 lb. Stub spindle axle with machined attachment plates
- Full air brakes w/ABS or electric brake
- 14/80R20 tires and tubes; 9:00 x 20 rims
- Double shock mounted lights with pigtail connectors and terminal blocks (FMVSS 108)
- Multi-pocket vertical lift hydraulic mandrel racks with mechanical locks and stabilizers
- 2 1/2" heat treated reel mandrel with centering cones, locking collars and Nylatron® bearings
- Hydraulically raised and lowered drawbar with load locked cylinder
- Hydraulically powered idler wheel with pneumatic tire and Steer-Go power steering system with a anti-cavitation valves
- Four (4) bank hydraulic control valve with pressure relief, gauge, and positionable levers
- Stainless steel hydraulic tubing

## POWER UNIT:

- Electric throttle activation at front and rear control positions
- Micro switch energized electric/hydraulic proportional controllers at front and rear control positions
- Closed loop hydrastatic system
- Two-speed final drive with electric activated shift at front and rear control positions
- Open center auxiliary hydraulic system
- Load locked cylinder provides pressure to reel
- 27116" chrome plated drive shaft with piloted flange and pillow block bearings
- Auxiliary power shaft with bayonet
- Hydraulic oil cooler mounted at engine radiator air intake
- Filtration: Full flow with relief and condition indicator with replaceable spin-off cartridge. Flo Ezy® wire mesh filter on suction line inside tank
- 0-5000 psi hydrastatic pressure gauge at front control panel

- 0-3000 psi auxiliary pressure gauge at control valve bank
- Lighted gauges for oil pressure, water temp, ammeter, fuel level
- Lighted tachometer and hour meter
- Fully hooded with hinged doors for easy access
- Enclosed battery compartment with external battery connector

## ENGINE SPECIFICATIONS:

- John Deere( Model 3015 D
- Cylinders: 3
- Bore: 84mm (3.31 in.) Stroke: 90mm (3.54 in) Disp.: 1,497 L (91.2 CID)
- Power rating: 33 hp @ 3000 rpm Intermittent -30 hp @ 3000 rpm Continuous
- Combustion: Direct Injection
- Ignition: Keyed switch with Pre-heat, Off, Run, Start
- Indicator Lights: Low oil pressure and Engine pre-heat with timer
- Cold weather start block heater-standard



## DIMENSIONS

- Length: 197 Inches (5033 mm)
- Width: 94 Inches (2587 mm)
- Height: 80 Inches (2032 mm)
- Approximate weight: 7020 Ibs. (2948 kg) GVWR 19280 (Capacity will vary with addition options)

Check with your dealer or factory for list of options



In order that product improvement may be introduced at any time, specifications are subject to change without notice.



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