

# ELLIOTT



# D100i

## DIGGER DERRICK

### Heavy-Duty Performance

Delivers a maximum lifting capacity of 36,000 lbs with a 9,500-lb line pull, plus a class-leading 40 ft. digging radius and 20,000 ft-lbs of digging torque to tackle demanding jobs with ease.

### Versatile Outriggers

Two sets of out-and-down overframe outriggers with a 20' span, configurable for full-span or mid-span operation. Equipped with ball socket aluminum removable pads that stow neatly on the vertical outrigger legs.

### STANDARD FEATURES

- Tallest Insulating Digger Derrick in the Industry
- 46kV Insulation
- Industry-Best 10,250 lb Lifting Capacity at 30 ft Radius
- High-Pinpoint Boom Geometry
- 20,000 ft-lbs Torque – Handles Augers up to 48" Diameter
- Transferable Pole Guide
- Full and Mid-Span Lifting Capability
- Compact 232" Wheelbase for Tight-Space Maneuverability
- Full-Pressure Oil Hydraulic Controls
- Ergonomic Control Console with Graphical LMI Interface
- Easy-Access Ingress/Egress
- Large Service Access Points with Reduced Fittings for Easy Maintenance
- Backed by Lifetime Structural Warranty
- ANSI A10.31 Compliant

### Operator-Focused Control Station

Easy-access, front-entry control station with a rotating, ergonomic operator seat offers excellent visibility to the work area for improved efficiency and safety.

### Integrated Hydraulic & Control System

Features a hydraulically powered continuous rotation mechanism driven by a piston pump, closed-center system design, and a 10-micron return line filter. Oil/Oil hydraulic controls use six single-axis levers for precise boom and digger operation, ensuring smooth, responsive performance.

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**ELLIOTT****D100i****DIGGER DERRICK**MAIN BOOM LOAD RATINGS WITH INSULATING 4TH SECTION RETRACTED – OUTRIGGERS FULL SPAN  
LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

| LOAD RADIUS IN FEET | LOADED BOOM ANGLE | 32-ft  | A 44-ft | LOADED BOOM ANGLE | B 52-ft | LOADED BOOM ANGLE | C 60-ft | LOADED BOOM ANGLE | D 68-ft | LOADED BOOM ANGLE | E 76-ft |
|---------------------|-------------------|--------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|
| 5                   | 75.6              | 36,000 |         |                   |         |                   |         |                   |         |                   |         |
| 8                   | 69.9              | 36,000 | 75.5    | 18,300            | 77.8    | 17,600            |         |                   |         |                   |         |
| 10                  | 65.9              | 36,000 | 72.8    | 19,000            | 75.5    | 18,300            | 78.1    | 17,500            |         |                   |         |
| 12                  | 61.8              | 35,400 | 70.0    | 19,600            | 73.2    | 18,900            | 76.1    | 18,100            | 78.0    | 16,650            |         |
| 14                  | 57.5              | 29,500 | 67.1    | 20,150            | 70.9    | 19,400            | 74.1    | 18,650            | 76.3    | 16,900            | 77.9    |
| 16                  | 53.0              | 25,000 | 64.2    | 20,600            | 68.5    | 19,900            | 72.1    | 19,150            | 74.5    | 17,100            | 76.3    |
| 18                  | 48.1              | 21,500 | 61.2    | 20,900            | 66.0    | 20,100            | 70.0    | 18,000            | 72.8    | 16,100            | 74.7    |
| 20                  | 42.7              | 18,700 | 58.1    | 19,000            | 63.6    | 18,250            | 68.0    | 16,550            | 71.0    | 14,550            | 73.2    |
| 25                  | 25.0              | 13,200 | 49.8    | 13,700            | 57.1    | 13,900            | 62.6    | 13,200            | 66.3    | 11,600            | 69.0    |
| 30                  |                   |        | 40.1    | 10,000            | 50.0    | 10,150            | 56.3    | 10,250            | 61.5    | 9,450             | 64.9    |
| 35                  |                   |        | 27.4    | 7,400             | 42.0    | 7,600             | 50.2    | 7,700             | 56.5    | 7,750             | 60.5    |
| 40                  |                   |        |         |                   | 32.4    | 5,750             | 43.4    | 5,850             | 51.0    | 5,900             | 55.9    |
| 45                  |                   |        |         |                   | 18.4    | 3,400             | 35.6    | 3,500             | 44.4    | 3,550             | 50.8    |
| 50                  |                   |        |         |                   |         |                   | 25.6    | 2,650             | 37.8    | 2,700             | 45.5    |
| 55                  |                   |        |         |                   |         |                   |         |                   | 29.9    | 2,000             | 39.5    |
| 60                  |                   |        |         |                   |         |                   |         |                   | 18.9    | 1,400             | 32.1    |
| 65                  |                   |        |         |                   |         |                   |         |                   |         |                   | 23.4    |
| 70                  |                   |        |         |                   |         |                   |         |                   |         |                   | 7.7     |
|                     | 0.0               | 10,950 | 0.0     | 5,700             | 0.0     | 2,900             | 0.0     | 1,800             | 0.0     | 1,000             | 0.0     |

MAIN BOOM LOAD RATINGS WITH INSULATING 4TH SECTION EXTENDED – OUTRIGGERS FULL SPAN  
LOAD RATINGS IN LBS WITH OUTRIGGERS AND STABILIZERS EXTENDED

| LOAD RADIUS IN FEET | LOADED BOOM ANGLE | 46-ft  | A 59-ft | LOADED BOOM ANGLE | B 67-ft | LOADED BOOM ANGLE | C 75-ft | LOADED BOOM ANGLE | D 83-ft | LOADED BOOM ANGLE | E 90-ft |
|---------------------|-------------------|--------|---------|-------------------|---------|-------------------|---------|-------------------|---------|-------------------|---------|
| 5                   | 80.2              | 19,000 |         |                   |         |                   |         |                   |         |                   |         |
| 8                   | 76.5              | 19,000 | 79.3    | 16,500            |         |                   |         |                   |         |                   |         |
| 10                  | 73.9              | 19,000 | 77.3    | 16,750            | 79.5    | 16,500            |         |                   |         |                   |         |
| 12                  | 71.3              | 17,500 | 75.3    | 17,000            | 77.8    | 16,700            | 79.4    | 16,500            |         |                   |         |
| 14                  | 68.7              | 15,500 | 73.2    | 17,300            | 76.0    | 16,950            | 77.8    | 16,700            | 79.3    | 16,500            |         |
| 16                  | 66.0              | 14,000 | 71.2    | 17,400            | 74.2    | 17,150            | 76.3    | 16,500            | 77.9    | 15,200            | 79.1    |
| 18                  | 63.2              | 12,800 | 69.1    | 15,900            | 72.4    | 15,900            | 74.7    | 15,000            | 76.5    | 13,800            | 77.8    |
| 20                  | 60.4              | 11,500 | 67.0    | 14,600            | 70.6    | 14,500            | 73.1    | 13,700            | 75.0    | 12,700            | 76.5    |
| 25                  | 52.9              | 9,600  | 61.5    | 12,000            | 65.9    | 12,000            | 68.9    | 11,200            | 71.4    | 10,400            | 73.1    |
| 30                  | 44.4              | 8,200  | 55.6    | 10,200            | 61.0    | 10,000            | 64.7    | 9,400             | 67.7    | 8,800             | 69.9    |
| 35                  | 34.3              | 7,200  | 49.4    | 8,200             | 55.8    | 8,200             | 60.3    | 8,200             | 63.8    | 7,700             | 66.4    |
| 40                  | 19.5              | 6,400  | 42.3    | 6,450             | 50.2    | 6,400             | 55.6    | 6,400             | 59.8    | 6,400             | 62.7    |
| 45                  |                   |        | 34.1    | 4,000             | 43.5    | 4,000             | 50.5    | 4,000             | 55.3    | 4,000             | 58.8    |
| 50                  |                   |        | 23.3    | 3,200             | 36.6    | 3,200             | 45.1    | 3,150             | 50.8    | 3,150             | 54.9    |
| 55                  |                   |        |         |                   | 28.2    | 2,500             | 38.5    | 2,500             | 46.0    | 2,450             | 50.7    |
| 60                  |                   |        |         |                   | 15.9    | 1,950             | 31.5    | 1,950             | 40.7    | 1,900             | 46.2    |
| 65                  |                   |        |         |                   |         |                   | 22.7    | 1,450             | 34.7    | 1,400             | 41.4    |
| 70                  |                   |        |         |                   |         |                   |         |                   | 26.8    | 1,000             | 36.0    |
| 75                  |                   |        |         |                   |         |                   |         |                   | 16.9    | 600               | 29.7    |
|                     | 0.0               | 6,100  | 0.0     | 2,600             | 0.0     | 1,700             | 0.0     | 1,000             |         |                   |         |

## OPTIONS

- Hose Reels or Hydraulic Circuits
- Radio Remote Control System
- Auger Flighting Options (24", 36", 48")
- EZ-Crib Two-Stage Outriggers
- Automatic Safety Rotation Lockout
- Custom Line Body & Flat Bed configurations
- And more additional options & configurations – contact factory or dealer

### VIDEO:



### FULL SPECS:



## SPECIFICATIONS

**Sheave Height (Maximum)**

100' / 30,5 m

**Sheave Height (Retracted)**

40' / 12,2 m

**Digging Radius (Maximum)**

40' / 12,2 m

**Digging Radius (Minimum)**

24' / 7,3 m

**Lifting Capacity (Maximum)**

36,000 lb / 16 329 kg

**Lifting Capacity @ 10' Radius**

36,000 lb / 16 329 kg

**Lifting Capacity @ 30' Radius**

10,200 lb / 4 649 kg

**Boom Elevation Limits**

-10/+80 Degrees

**Boom Rotation**

360 Degrees Continuous

**Digger Motor Torque**

20,000 ft-lb / 27 116 Nm

**Digger Speed (High/Low)**

80 RPM / 35 RPM

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