



## Model HM-25

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### MACHINE SPECIFICATIONS

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#### Auxiliary Engine:

*STANDARD*

MAKE: John Deere

MODEL: 4045T, Balanced diesel engine

RATED H.P.: 100

RATED R.P.M.: 2,500

MAXIMUM TORQUE: 274 ft./lb.

*OPTIONAL*

Highway will work with the following:

- Caterpillar
- Cummins
- Detroit
- Deutz
- Ford
- Perkins

*Consult factory for models available.*

#### Transmission:

Four (4) speeds forward and reverse  
13" torque converter with safety lock shifter  
Transmission oil cooler

#### Fuel Source:

*STANDARD*

Fuel supplied by chassis fuel tank  
(diesel/diesel)

*OPTIONAL*

50 Gallon fuel tank with mechanical gauge

#### Torque & R.P.M.:

*STANDARD*

1<sup>st</sup> 32,407 ft./lbs. @ 33.1 RPM

2<sup>nd</sup> 16,156 ft./lbs. @ 66.5 RPM

3<sup>rd</sup> 9,062 ft./lbs. @ 118.5 RPM

4<sup>th</sup> 5,178 ft./lbs. @ 207.4 RPM

#### Kelly Bar:

3" solid square bar with rounded corners  
4140 tool steel, heat treated  
1½" auger pin hole

#### Auger Capacity:

56" Intermittent

36" Continuous

#### Hole Depths:

*STANDARD*

10'

*OPTIONAL*

Up to 30'

#### Final Drive:

Special design pinion with a 16" ring gear  
Steel carrier with replaceable bronze thrust plates  
and remote bar seals

#### Hydraulic System:

100 G.P.M. tandem gear pump  
2,100 P.S.I. main system pressure  
115 gallon oil reservoir  
In tank suction strainers  
In tank return filter

#### Boom Leveling:

*STANDARD*

20 DEGREES LEFT

45 DEGREES RIGHT

15 DEGREES OVER VERTICAL

*Options available, consult factory for special applications.*

#### Cab Guard:

*OPTIONAL*

4" "C" Channel with expanded metal top and tread  
plate bottom

*Options available, consult factory for special applications.*

## Turntable Base:

### STANDARD

95" diameter, 4" ship & car channel rolled ring  
240 degree rotation  
120 series chain run through hydraulic speed reducer

### OPTIONAL

#1. 35 Degree Pivot base. 100" travel with 36" slide.  
#2. Fixed base.

## Outriggers:

### STANDARD

Rear "A" frame

### OPTIONAL

Straight down jacks  
Two sets of "A" Frame outriggers  
Spring lockouts  
Out & down front outriggers

## Pivot Base:

Constructed of 6" wide flange I-beam 25 lbs./ft.  
Full length greasable main frame guides

## Main Frame:

Constructed of 6" wide flange I-beam 25 lbs./ft.  
36 inches of In/Out slide travel

## Feed Ram:

4¾" I.D. X 5¼" seamless hydraulic honed tubing  
35,400 ft./lbs. Crowd force. Maximum  
22,900 ft./lbs. Retract force. Maximum

## Mast:

6" x 6" x ¼" Square tubing

## Telescoping Derrick:

### OPTIONAL

#1. 6' Telescoping derrick  
#2. 9' Telescoping derrick

## Pole Guides:

### OPTIONAL

#1. Mechanical linkage fixed pole guides with side rollers  
#2. Mechanical linkage tilting pole guides with side rollers

## Winch:

### OPTIONAL

Planetary winch 10,000 lb. On first wrap.  
125' of 7/16" wire rope

## Tool Circuit:

### OPTIONAL

#1. Fixed position tool circuit with control valve.  
#2. Tool circuit with hose reel 25' hydraulic hose.

## Oil Tank:

115 Gallon hydraulic reservoir with baffles & suction strainers

*Location can be altered, consult factory.*

## Water Tank:

### OPTIONAL

#1. 100 Gallon steel, poly or aluminum.  
#2. 200 Gallon steel, poly or aluminum.

## Auger Storage:

### OPTIONAL

#1. Auger drop box, located curb side.  
#2. Auger stakes. (location to be determined)

## Tunnel Storage:

### OPTIONAL

Enclosed tunnel storage with lockable rear door  
Fabricated from sheet or expanded metal

## Digger Weight:

Base weight digger only 12,500 lbs. (approx.)

## Chassis or Carrier:

84" Cab to Axle minimum  
26,000 GVW Single axle minimum

## Other Options:

Paint colors, Tool boxes, Trailer hitches, Panel lights,  
Work lights, Safety lighting, Grounding systems,  
Auger adapters & extension, Augers, Tooling,  
Hydraulic tools, Outrigger pads, Wheel chocks,  
Front winches.

NOTE: all dig depths are based on a 36" chassis frame height and 36" long auger.

