



## Model HM-38

---

### MACHINE SPECIFICATIONS

---

#### Auxiliary Engine:

*STANDARD*

MAKE: John Deere

MODEL: 4045T, Balanced diesel engine

RATED H.P.: 115

RATED R.P.M.: 2,500

MAXIMUM TORQUE: 316 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> 41,607 ft./lbs. @ 29.7 RPM
- 2<sup>nd</sup> 20,704 ft./lbs. @ 59.8 RPM
- 3<sup>rd</sup> 11,613 ft./lbs. @ 106.6 RPM
- 4<sup>th</sup> 6,636 ft./lbs. @ 186.7 RPM

#### Kelly Bar:

3" solid square bar with rounded corners  
4140 tool steel, heat treated  
1 1/8" auger pin hole

#### Auger Capacity:

72" Intermittent  
54" Continuous

#### Hole Depths:

*STANDARD*

10'

*OPTIONAL*

Up to 35'

#### Final Drive:

Special design pinion with a 18" ring gear  
5 year warranty on ring gear and pinion 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 on rear corners  
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:**

4 1/4" I.D. X 5 1/4" seamless hydraulic honed tubing  
35,400 ft./lbs. Crowd force. Maximum  
22,900 ft./lbs. Retract force. Maximum

## **Mast:**

6" x 6" x 1/4" 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

*Locations 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 14,500 lbs. (approx.)

## **Chassis or Carrier:**

102" Cab to Axle minimum  
32,000 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.

