



## Model HCBMS

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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 one reverse

11 $\frac{1}{4}$ " torque converter

Torque converter 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> 21,000 ft./lbs. @ 19.8 RPM

2<sup>nd</sup> 10,000 ft./lbs. @ 41 RPM

3<sup>rd</sup> 5,300 ft./lbs. @ 75 RPM

4<sup>th</sup> 3,600 ft./lbs. @ 126 RPM

#### Kelly Bar:

2 $\frac{3}{4}$ " X 3 $\frac{1}{16}$ " rack bar  
4140 tool steel, heat treated  
 $\frac{7}{8}$ " auger pin hole

#### Auger Capacity:

56" Intermittent

24" Continuous

#### Hole Depths:

*STANDARD*

10'

*OPTIONAL*

Up to 42'

#### Final Drive:

Special design pinion with a 16" ring gear  
Steel carrier with replaceable thrust plates

#### Hydraulic System:

17 G.P.M. gear pump

2,100 P.S.I. main system pressure

20 gallon oil reservoir

In line 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

## 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

## Mast:

5" O.D. tubing to house rack bar

## Derrick:

7½" O.D. tubing construction

Telescoping and non-telescoping

## Telescoping Derrick:

### *OPTIONAL*

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.

## 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 11,500 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, Outtrigger pads, Wheel chocks,

Front winches.

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

## HIGHWAY MANUFACTURING

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