

# Model HFMS

#### 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:**

**STANDARD** 

Power Shift, three (3) speeds forward 12.75" torque converter with safety lock shifter Transmission oil cooler

**OPTIONAL** 

Four speed 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> 52,513 ft./lbs. @ 29,7 RPM

2<sup>nd</sup> 22,644 ft./lbs. @ 42.2 RPM

3rd 9.068 ft./lbs. @ 105.4 RPM

### **Kelly Bar:**

4½" hollow kelly bar with internal seals 4140 tool steel, heat treated 1¼" auger pin hole

## **Auger Capacity:**

72" Intermittent 54" Continuous

## **Hole Depths:**

**STANDARD** 

101

**OPTIONAL** 

Up to 251

#### **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

## **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

## **Outriggers:**

STANDARD

Rear "A" frame

**OPTIONAL** 

Straight down jacks on rear corners Two sets of "A" Frame outriggers Out & down front outriggers Radial arm outriggers

#### **Pivot Base:**

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

#### **Main Frame:**

Constructed of 12" wide flange I-beam 25 lbs./ft. 36 inches of In/Out slide travel

**OPTIONAL** 

54 inches of In/Out slide travel

### Derrick:

7"1.D. X 7½" seamless tubing 20,650 ft./lbs. Crowd force. Maximum 10.800 ft./lbs. Retract force. Maximum

## **Telescoping Derrick:**

**OPTIONAL** 

61 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 16,500 lbs. (approx.)

#### **Chassis or Carrier:**

108" Cab to Axle minimum 33.000 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.

### **HIGHWAY MANUFACTURING**

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