**Mud Cat™ MFD - Multi-Function Dredge**

**GENERAL**
- **Transport Length:** 48 ft-6 in (14.8 m)
- **Transport Width:** 11 ft-1 in (3.4 m)
- **Transport Height:** 10 ft-6 in (3.2 m)
- **Draft:** 26 in (0.66 m)
- **Shipping Weight:** 42,000 lbs. (19050 kg) approx.

**ENGINE**
- **Engine:** John Deere Diesel Turbocharged and Intercooled, Radiator Cooled
  - Model 6068HF475
  - 275 HP (205 kW) Intermittent Rating
  - Digital Engine Controls and Display 24 V Operations
- **Fuel Capacity:** 320 Gallons (1211 L)
- **Fuel Consumption:** 10.8 Gallons/Hour (40.9 L / Hour)

**PROP DRIVE**
- **Prop Drive:** Stainless Steel 24-in (0.48 meters) steerable prop drive, up to 4 knots sailing speed, prop pivots up for transportation.

**STABILIZER**
- **Max. Depth, Front Stabilizer:** 12 ft-2 in (3.7 m)
- **Max. Depth, Front Stabilizer with Extension:** 16 ft-4 in (5.0 m)
- **Max. Depth, Rear Tilting Spuds:** 22 ft-3 in (6.86 m)

**SIDE TANKS**
- **Dimensions:** 3 ft (.91 m) wide x 16 ft (4.8 m) long x 3 ft .91 m) height (height excluding the skid rail on bottom of the tanks)
- **Weight:** 1600 lbs. (726 kg.)

**SERVICE CRANE**
- **Articulating crane for installing side pontoons and handling discharge line.**
  - **Reach:** 21 ft. (6.4m) horizontal reach
  - **Rating:** 32,500 lb. ft. (4.5 TM) rating

**HYDRAULICS**
- **Large 120 Gallon (450 Liter) hydraulic reservoir with oil cooler, 5 micron filtration, and efficient 5000 psi (345 Bar) load sense pumps drive all functions. Electric-overflow hydraulic controls for ease of operation and control. Controls can be switched between SAE and ISO configurations.**

**HULL**
- **Single piece hull construction is 0.1345 inches (3.42 mm) steel plate with 8 watertight, sealed and reinforced compartments. For corrosion protection, the outside of the hull is given two coats of marine epoxy. The interior hull is given one coat of marine epoxy. Deck is given anti-skid surface. Hull bottom is reinforced with two heavy duty 6-inch (0.15 m) skid rails.**

**CABIN**
- **Modern full visibility cabin is equipped with the following features:**
  - Back-up video camera
  - Cabin has a windshield wiper and a horn
  - Vibration insulated
  - Ergonomic seating with fingertip joystick controls
  - Air conditioning and heater
  - Front and rear work-lights
  - FOPS Certified

**COMPLIANCE**
- **Jones Act Compliant**
- **FOPS - Falling Object Protective Structures operator’s cab**
- **3rd party certified pump performance curve**
- **ABS River Rules Compliant hull and superstructure available on Severe Duty MFD**

**EXCAVATOR ARM**
- **Boom Swinging Angle:** 180 degrees
- **Break-out force from bucket cylinder:** 17,000 lbs. (75 kN)
- **Digging Force from dipper cylinder:** 11,900 lbs. (53 kN)
- **Lifting capacity at maximum reach:** 3,600 lbs. (16 kN)
- **Max. Digging depth:** 18 ft 1 in (5.51 m)
- **Max. Dumping height:** 17 ft-9 in (5.4 m)
- **Max. Digging radius:** 23 ft-8 in (7.2 m)
- **Quick couplings for ease of attachment exchange**

**ATTACHMENT: MC EXCAVATOR BUCKET WITH TEETH**
- **Larger capacity for removing extra materials during mechanical dredging operation**
  - **Volume:** 1 cubic yard (0.76 cubic meters or 765 liter)

**ATTACHMENT: MC CUTTER/PUMP**
- **Pump:** Centrifugal, Cast-iron housing and semi-open impeller
  - Typical Head-Capacity Operating Points: 3,600 GPM @ 75 ft. TDH
    - (817m3/hr. x 22.8m) (Sp. G. 1.0)
  - **Pump Speed:** Variable to 2,000 RPM
  - **Suction and Discharge Diameter:** 8 inches (203 mm)
  - **Impeller size:** 12.25 inches (311 mm)
  - **Sphere size:** 3 inches (max) (76.22 mm)
- **Cutter:** Basket type cutter with excavator teeth
  - **Cutter HP:** 30 HP (22.37 kW)
  - **Cutter Speed:** 0-40 RPM
  - **Cutter Diameter:** 24-inch (558 mm)
  - **Cutting Force:** 3,939 ft-lbs of torque (5340 Nm)
  - **Digging Depth:** 20 ft 3 in (6.17m)
  - **Discharge Pipe Line:** to be used with 10 inch (254mm) discharge line sold separately.

**ATTACHMENT: MC ARTICULATING CLAM SHELL BUCKET**
- **This is especially well-suited for removing loose sediment, stumps, rocks, trees, or brush. For faster and better positioning, it is equipped with a hydraulic rotor.**
  - **Volume:** 1 cubic yard (0.76 cubic meters or 765 liter)
  - **Length:** 66-inches (1.76 m)
  - **Width Opening:** 75-inches (1.90 m)
  - **Weight:** 1110 lbs. (503 kg)
  - **Digging Depth:** 21 ft 2 in (6.45m)

**ATTACHMENT: MC TRASH RAKE/WEED RAKE WITH HYDRAULIC THUMB**
- **Used for removing roots, weeds and other vegetation as well as trash and debris.**
  - **Length:** 120-inches (3,048mm)
  - **Number of Tines:** 12

**ATTACHMENT: MC PILING BUCKET**
- **The pole planting bucket, which besides normal digging features, has a gripping-lifting and pulling function. With its hydraulically operated grip claws, it can easily pick up poles and trees among other items and place them where needed.**
  - **Bucket Volume:** 0.2 cubic yards (.15 cubic meters)
  - **Max Pole Length:** 49 feet (15 m)
  - **Max Jaw Opening:** Up to 17.3 inches (440 mm)

**NOTE:** Specifications subject to change without notice.
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**POWER UNIT**
- Turbo charged radiator cooled 275 HP (205 kW) John Deere diesel engine
- Fully enclosed power unit for weather protection w/ anti-theft locks.
- 320 gallon (1,211 L) diesel fuel capacity

**SERVICE CRANE**
- 21 ft. (6.4m) horizontal reach for installing side tanks and maintenance
- 32,500(4.5) ft. lb. rating

**REAR STABILIZER SPDUS**
- Tilting spuds for easy transport by road or under bridges
- Max depth of 22 ft. 3 in. (6.86m)

**OPERATOR’S STATION**
- Joystick controlled
- Digital depth gauge
- Back-up video camera
- FOPS Certified

**FRONT STABILIZERS**
- Front stabilizers for amphibious function and max. stability while dredging.
- Comes standard with stabilizers for depths up to 12 ft. 2 in. (3.7m) and 16 ft. 4 in. (5.0m)

**EXCAVATOR ARM**
- 180 degree swing angle
- 17,000 lbs. (75 kN) break-out force from bucket cylinder
- 3,600 lbs. (16 kN) lifting capacity at max. reach
- Quick couplings for easy and rapid attachment exchange

**HYDRAULICS**
- Electronic over hydraulic controls
- Can be switched between SAE and ISO configurations

**PROP DRIVE**
- Stainless Steel 24 in. (61mm) steerable prop drive
- 4 knot sailing speed
- Pivots up for transportation

**REAR STABILIZER SPDUS**
- Tilting spuds for easy transport by road or under bridges
- Max depth of 22 ft. 3 in. (6.86m)

**STANDARDS EQUIPMENT:**
- Fully enclosed engine compartment
- Two (2) rear anchor spuds
- Two (2) front stabilizers
- Two (2) side tanks
- Service crane
- Heavy duty excavator arm
- Stainless steel 24 in (0.48 m) steerable prop drive
- FOPS Certified Climate Controlled operator’s cabin
- Digital depth gauge
- 360 degree lighting
- Windshield wiper and horn
- Joystick controls with CANbus
- Spray pipe
- Navigation lights mast with day shapes
- Quick hydraulic coupler
- Filters for 3,000 hrs.

**OPTIONAL EQUIPMENT:**
- MC Backhoe Attachment: 1 yds³/hr. (0.8m³/hr.) bucket
- MC Cutter / Pump Attachment: 1,069 yds³/hr. (817m³/hr.)
- MC Articulating Clam Shell Bucket: 1 yds³/hr. (0.8m³/hr.)
- MC Trash Rake / Weed Rake w/ thumb: 120 in. (3,048 mm)
- MC Piling Bucket
- MC Shredder / Mower: Cuts up to 8” brush and trees to clear canals and river banks
- GPS System (w/ sub-meter accuracy)
- Pipe, hose, collar floats
- Spotlight
- Severe Duty Package (ABS River Rules Compliant)