

Florida National Cemetery
Statement of Work for Frontend Dumper

Location: Florida National Cemetery
6502 SW 102nd Ave.
Bushnell, Florida 33513

Introduction:

Florida National Cemetery is in need of a Frontend Dumper. The vehicle is used to transport material over Five Hundred acres of uneven terrain. A versatile bulk material mover offering articulated hydrostatic 4-wheel drive designed to carry full payloads across rough terrain, muddy conditions and steep hills. It should carry up to 5.6 cubic yards of dirt and is an excellent material mover partner for larger excavators. The new vehicle will save on man hours, and the cost of equipment needed to perform daily tasks.

Requirements for equipment:

- Operator station is easily accessible from both sides for added convenience. Dashboard displays a full range of dials/indicator lights such as fuel gauge, low fuel, warning light and parking brake light.
- Hydrostatic drive is easy and intuitive for the operator. The four wheel drive provides perfect traction on difficult terrain and articulated steering allows for a tight turning radius.
- Easy access for convenient maintenance. Maintenance intervals of 500 hours of operation reduces downtime.
- Minimum speed of 15 mph.
- Operator's manuals will be provided
- Mechanic's / Maintenance manuals will be provided.

General (weight and dimensions may vary based on figuration)

- Safe payload 19,941 lbs. (9000 kg)
- Length/width/height (top of ROPS): 204" (5185 mm) x 97" (2463 mm) x 132" (3353 mm)
- Hydraulic power swivel dump box, rotates total 180° left and right
- *Capacity: 4.3 yd³ (3.3 m³) struck/ 5.8 yd³ (4.4 m³) heaped / 2.7 yd³ (2.0 m³) water level
(*) Only if material weight is less than max safe payload
- Speed: 15.5 mph (25 kph)
- Articulated steering ± 29°
- Oscillation angle: ± 11°

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- Maximum gradeability: 25% / 50%
- Road lighting with high and low beam head lights, turn signals, tail lights and emergency flashers
- Flashing beacon
- Seat contact switch
- Front view camera
- Reverse alarm

Engine

- Water-cooled PERKINS turbo diesel engine, model 854F
- Particulate matter catalyst (PMC)
- 4-cylinder, 3.4 liters
- Operating power: 74.8 hp (55 KW) at 2500 rpm

Operator Station - ROPS

- Adjustable all weather driver seat with safety belt
- Complies with ROPS regulations
- Heavy duty flexible engineered material for full leg protection

Operator Station - Cab

- Standard with heat and air-conditioning

Hydraulics

- Permanent four-wheel drive
- Easy to operate hydrostatic automotive drive
- Axial Piston pump: 45 gal/min (171 l/min)
- Gear pump: 18 gal/min (68 l/min)
- Hydrostatic/mechanical working brake

• **Tires**

- Turf Tires

Operating data

- Payload 19,842 lb
- Shipping weight ROPS 12,486 lb
- Shipping weight Cabin 12,927 lb
- Operating weight ROPS 12,667 lb

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- Operating weight Cabin 13,108 lb
- Skip capacity - Levelled 4.32 yd³
- Skip capacity - Heaped 5.75 yd³
- Skip capacity - Water 2.69 yd³

Engine / Motor

- Engine / Motor manufacturer Perkins
- Engine / Motor type 854F
- Engine performance - ISO 3046/1 73.8 hp
- Displacement 207.4 in³
- Engine RPM 2500 rpm
- Emissions T4f
- Traction drive 4WD, Hydrostatic drive
- Travel speed 15.5 mph
- Articulation angle 29 °
- Pendulum angle 11 °
- Turning radius 257.9 in
- Gradeability 50 %
- Turf Tires
- L x W x H 204 x 97 x 100 in
- Steering pump Axial piston pump
- Flow rate 45.2 US gpm
- Operating pressure 6,527 psi
- Duty pump Gear pump
- Flow rate 18 US gpm
- Operating pressure 3,408 psi
- Fuel tank capacity 21.9 US gal
- Hydraulic oil tank 14.5 US gal
- Sound level (LwA) 102 dB(A)