

GRADALL®

FA50

FIREFIGHTING APPARATUS



SPECIFICATIONS

System Specifications

Thirteen cylinders

- 1 tool: 4.75" ID, 3.0" rod (120 mm x 76 mm), 18.75" (476 mm) stroke.
- 2 hoist: 4.75" ID, 3.0" rod (120 mm x 76 mm), 18.75" (476 mm) stroke.
- 1 telescope: 3.5" ID, 2.559" rod (89 mm x 65 mm), 11' (3.35 m) stroke.
- 1 jib: 4.75" ID, 3.0" rod (120 mm x 76 mm), 4'8" (1.42 m) stroke.
- 4 outriggers extend and retract: 2.0" ID, 1.25" rod (51 mm x 32 mm), 4'6" (1.37 m) stroke.
- 4 outriggers up and down: 3.5" ID, 2.559" rod (89 mm x 65 mm), 24" (610 mm) stroke.

Two hydraulic motors

Swing, 20hp (15 kW); tilt, 20 hp (15 kW);

Operating pressures:

Hoist	4,000 psi	(276 BAR)
Tilt.....	2,600 psi	(179 BAR)
Swing.....	0,000 psi	(000 BAR)
Tool.....	4,000 psi	(276 BAR)
Telescope.....	4,000 psi	(276 BAR)
Jib.....	4,000 psi	(276 BAR)
Outriggers extend	2,600 psi	(179 BAR)
Outriggers retract.....	4,000 psi	(276 BAR)
Outriggers up.....	4,000 psi	(276 BAR)
Outriggers down	4,000 psi	(276 BAR)

Oil Capacity

Reservoir and hydraulic system capacity is 55 gallons (208 L). Pressurized reservoir with visual oil level gauges.

Filtration System

10 micron return filter in tank

Pressure-compensated, load-sensing valves with circuit reliefs in all circuits.

0 to 42 GPM (160 L/Min) up to 4000 psi

Hydraulic System

PUMPS

Variable displace pressure compensating piston pump; Oil flow 0-42 GPM (0-160 L/min)

Overload indicator strobe light & audio system

Emergency pump and motor powered by chassis electrical system (12 volt or 24volt)

Manual control levers on the main hydraulic control valve assembly for upperstructure control and manual control levers on the outrigger valve assembly for outrigger controls.

Fin and tube-type oil cooler with thermal by-pass and relief valves.

Electrical System

A 12 volt electrical system is supplied by the main power supply of the chassis. A 24 volt system is optional on international chassis

Outriggers

Four independently operated or simultaneously operated outriggers. The outrigger legs extend and retract and move up and down for precise placement. Marker lights and flood lights are supplied for night operation.

Radio Remote Control

All upperstructure functions and outrigger functions are controlled by a radio remote control pack. The operator can control the FA50 from up to 300' (92 m).

Work Lights

Four high intensity work lights, two mounted on top of the main boom and two mounted on the bottom of the main boom.

Waterway

The 4' anodized aluminum waterway routes through the center pin, cradle and boom and connects to the adaptor for the Fifth Man piercing water cannon.

Fifth Man piercing water cannon capable of flowing water 1500 GPM and 120 psi. The Fifth Man cannon can also flow Class "A" and Class "B" foam.

Approximate working weight with attachment. Weight 23,000 lb (10,433 kg)

Optional Equipment

Lifting Eye for Fifth Man

Water Cannon for Fifth Man

UL Stage One Certification (Not the entire truck)

Hydraulic Pump (Depending on chassis spec)

PTO (Depending on chassis spec)

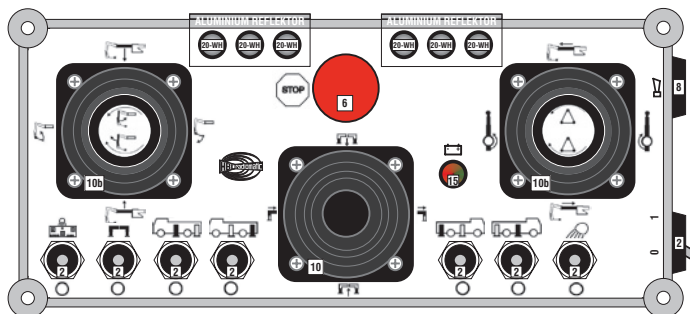
Swing

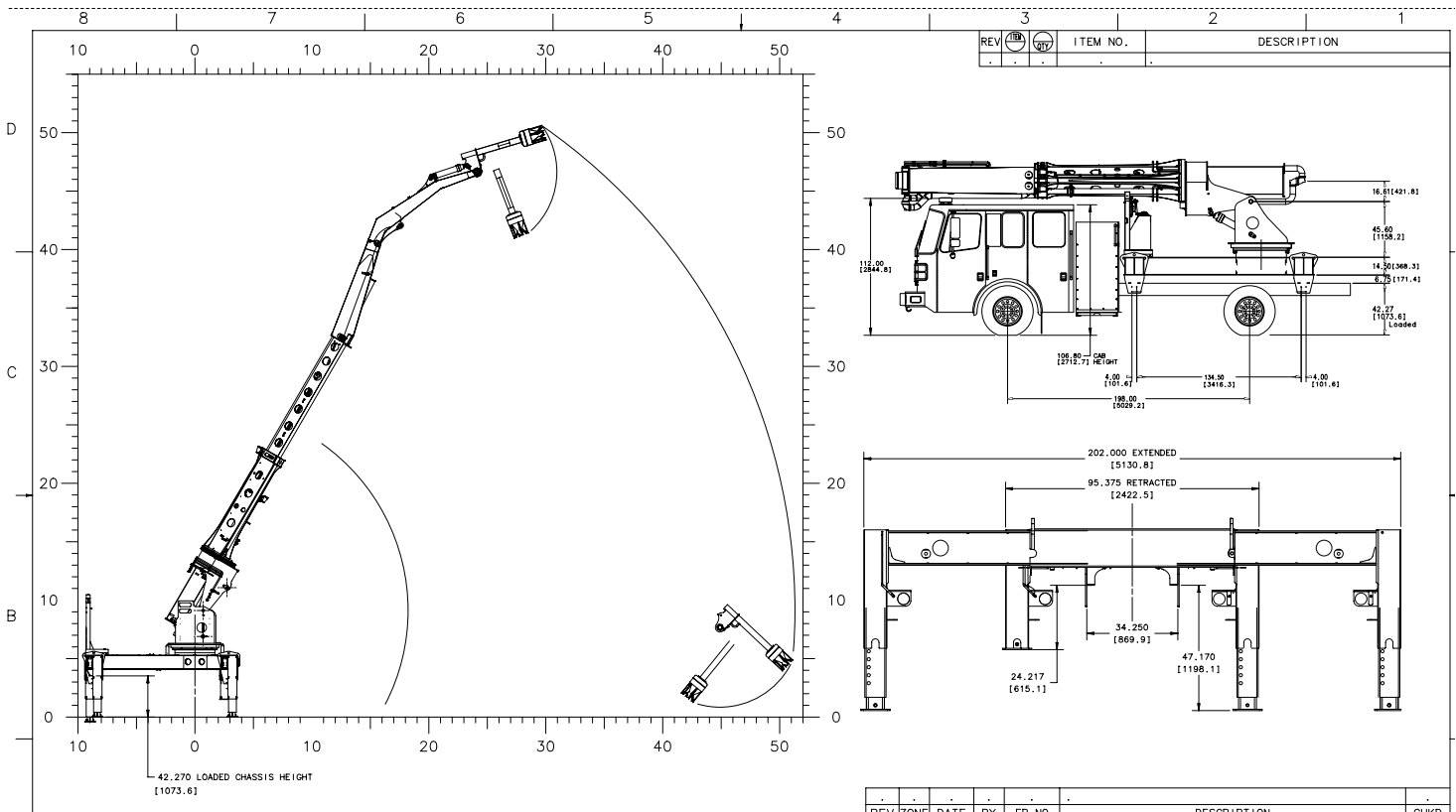
Planetary transmission.

Swing speed: 1.0 rpm.

Swing Brake

Automatic spring-set/hydraulic release wet disc parking brake. Dynamic braking is provided by the hydraulic system.





Positioning Machine

The machine must be on a firm, level surface with outriggers completely extended and lowered when making a lift.

The shorter the load radius, the greater the lift capacity. Position the unit to minimize boom extension and swing while keeping adequate distance from obstructions.

Rated Lift Capacity Chart

BOOM CONFIGURATION	NOZZLE LIFT EYE	PIERCING ADAPTER LIFT EYE	TELESCOPE BOOM LIFT EYE
BOOM AT ANY ANGLE/ CONFIGURATION	730 (331)	820 (372)	1490 (676)
TELESCOPE BOOM FULLY RETRACTED BOOM AT ANY ANGLE STICK AND ADAPTER IN ANY CONFIGURATION	1838 (83)	2225 (1009)	5400 (2449)
TELESCOPE BOOM FULLY RETRACTED BOOM AT ANY ANGLE STICK AT 90 DEGREES TO TELESCOPE BOOM ADAPTER FULLY CLOSED (cylinder fully extended)	2750 (1247)	2750 (1247)	6100 (2767)

Note: Values in lift chart above are with the outriggers in 'long-jack' configuration. The values are not valid for lifting with outriggers in 'short-jack' configuration.



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