

Ring Power®



Ring Power Corporation
500 World Commerce Parkway
St. Augustine, FL 32092

Prepared For:
Florida Sheriff's Association

8/14/2020

Item #306: (1) NEW PALFINGER M13A REFUSE LOADER

CONTRACT DETAILS

Florida Sheriff's Association
Bid # FSA20-EQU18.0
Item #306: Group: Refuse and Waste Collection Bodies & Trailer Mounted Equipment
Contract Dates: October 1, 2020 through September 30, 2023

BID SPECIFICATION:

NOTE: REFUSE BODIES REQUIRE SEPARATE PURCHASE OF CAB AND CHASSIS. Trailer mounted units must be sized and consistent with manufacturer GVWR ratings and other specifications for the mounted refuse equipment and payload. Must include all of the OEM standard equipment and be equipped with all LED lighting, and must meet all DOT and FMVSS safety standards. The completed unit must be delivered to the purchaser in a "ready to work" condition. This equipment is used collect Municipal Solid Waste (MSW) , Commercial Solid Waste (CSW), and Recycling and Vegetation.

BASE MACHINE

M13ASTD

Complete structural, hydraulic and electrical installation of M13A loader, including:
Hotshift PTO with direct mount hydraulic pump
Palfinger 79 gallon steel hydraulic tanks with in tank return filter, 2" shut off valve and 46 weight hydraulic oil
Frame mounted hydraulic oil cooler, 26.8 HP, 20.0 kW heat removal
Continental hydraulic hose and fittings
Weatherproof electrical junction box with DIN rail mounted mini-breaker for crane power and throttle relay, solenoid activated with PTO switch
Throttle control switch at topseat wired to throttle relay in junction box with relay connected to truck remote PTO interface plug (if supplied)

42" Bakker BDV100-42 refuse grapple featuring Protect Connect mounting system
22' BeauRoc MPHD dump body (37 cu.yd.) with 72" sides and cut down at front of body to 60" height
1/4" HARDOX 450 floor, 3/16" HARDOX 450 front and sides, 5/32" HARDOX 450 rear door
Single swing rear body door
Front mounted telescopic hoist
Body painted gloss black enamel

	Manual body control valve mounted on driver side frame rail with in cab switched electric diverter to divert hydraulic function between loader and body
	LED body light package - 3/4" marker and 3 light bar lights with 4" round stop/turn/tail and reverse lights in sealed boxes on bottom rear corners of body LED strobe lights, cab switched, featuring flange mounted strobe lights in front grill / bumper and outside edge of rear light boxes
	Steel tube ICC bumper uprights and cross beam
	Spring loaded, frame mounted mudflap brackets with mudflaps
	18'X18"X36" black steel toolbox, frame mounted
	All DOT and function decals
	QR code equipment management system labeling
	Complete load and stability testing
	Palfinger A-Line Loader
	Classification HC1/HD4/B4
	Net lifting moment: 92,200 ft-lbs.
	Net slewing torque: 14,010 ft-lbs.
	Right side mounted operator station with two joysticks
	Telescope controlled electrically on right joystick, slewing via swing pedal
	Fold down joysticks
	Control valve mounted on operators station
	Seat adjustable in distance forward/back
	Independently controlled telescopic stabilizers
	Stabilization fully hydraulic (2-sections) controlled from topseat
	Double circuit Control valve - Recommended flow: 21-gpm (2x)
	Operating pressure: 3,410-psi
	Continuous ring and pinion rotation
	Dual ladders
	Main boom cylinder protection
	Above mounted outer boom cylinder
	Linkage system between main and outer boom
	Throttle check valves on main, outer, and extension cylinders
	EPSCOPE - patented telescope system with inside hose routing (w/o on fixed boom)
	KTL primed and powder coated (Boom EPSILON red RAL 3020 - Base EPSILON grey 7021)
	4x LED worklights, 2 on the operators station and two on the outer boom
	Mounting bolts kit
	Hose package (4x outer boom, 4x EPSCOPE)
M13A80	26' 5" Single telescope
GUR	Seat belt
ESUS	In seat contact switch (crane won't operate if operator isn't seated)
GAL	Truck mount column (15" longer) Includes (4x M30x1.5x1000) mounting bolts
OCUS-L	Oil cooler mounted and installed between frame and ladder (exterior)
BK138	Epsilon rotator RB10F (10t with lateral outputs) - (price includes E30021X link connection)

EPSILON LOADERS

PALFINGER

PROFESSIONAL LOGGING SOLUTIONS A-LINE M13A



EPSILON - LOGGING WITH EXCELLENCE

Worldwide, PALFINGER is known for providing the most EFFICIENT, RELIABLE and INNOVATIVE material handling products for use on commercial vehicles. Since its establishment in 1932, PALFINGER has been among the leading international manufacturers of hydraulic lifting solutions. PALFINGER began manufacturing EPSILON Timber and Recycling Loaders in 1980 and, in 1989, opened its North American Headquarters to offer solutions tailored to the North American market. Today, EPSILON loaders are a global leader in the logging and recycling segment.

The main guiding principal of PALFINGER is to make our customers more successful with the help of our advanced machines, market experience, technical skills and committed employees. In such, over 5000 sales and service centers operate in more than 130 countries to provide PALFINGER users with the support and dedication that they deserve.

At PALFINGER, we recognize that you have many choices when selecting your equipment provider. By investing in the EPSILON A-Line, you are selecting a well established machine, a trusted global brand and a reliable partner to get your job done right. In the long term, PALFINGER cranes are a cost-effective choice due to their excellent price-performance ratio – ensuring that professionals like you receive the benefits of high resale value. When you choose the EPSILON A-Line, you can expect LIFETIME EXCELLENCE from the leader in crane technology.



INNOVATION BY PASSION

MADE FOR PROFESSIONALS

Linkage System

- Top mounted cylinder for ultimate protection.
- Constant power and operation speed throughout the total working area.
- Up to 60% more lifting power, especially in the upper working area.

Cylinder Protection

- Maximum protection for the cylinder during operation.

Double Row Bearing

- Especially developed for heavy duty work to reduce maintenance and maximize performance.

Work Lights on Boom

- Two halogen* work lights on outer boom (*LED optional).
- Well protected by robust metal covers.

EPSCOPE

- Patented telescope extension system with cylinder and hose equipment mounted inside for ultimate protection.

EPSLINK

- Patented link-rotator combination with robust 4-eye link for ultimate protection.

Work Lights on Platform

- Two additional halogen* work lights on operators platform. (*LED optional)
- Well protected by robust metal covers.

Inside Oil Cooler *

- Reduces setup time and maintenance costs.
- Space-saving solution.
- No additional installation required.
- Perfectly protected inside the frame.

Weight- Strength optimation (FEM)

- Less weight due to high-tech computer simulations (Finite Element Method).

* Optional Equipment

Comfort Drive

The new command center for professionals

Ergonomic arm rests

Every command is always at reach.

Mechanical extention without electric switch

Ergonomic joystick allows use of two functions at once (e.g. rotator & telescope).

Safety Frame and Cover

Protection cover for the operator - developed for harsh elements.

Additional electric switches

- Work lights on/off
- Cold weather package on/off
- Throttle control
- Engine shut off

Larger seat area

Extra large and adjustable seat area with very comfortable GRAMMER seat.

Cold weather package

Optional equipment for harsh environments

Heated Seat

For a comfortable job, even during the coldest conditions.

Heated Joysticks

Keep everything under control - regardless of snow and ice.

EPSHOOD

Optional protection hood for operators

Hood in open position

Provides an ideal view while the thermoplastic hood protects from sun and wind.

Operators protection position

Easily operate at this position - EPSHOOD keeps out rain, wind and snow.

Transport position

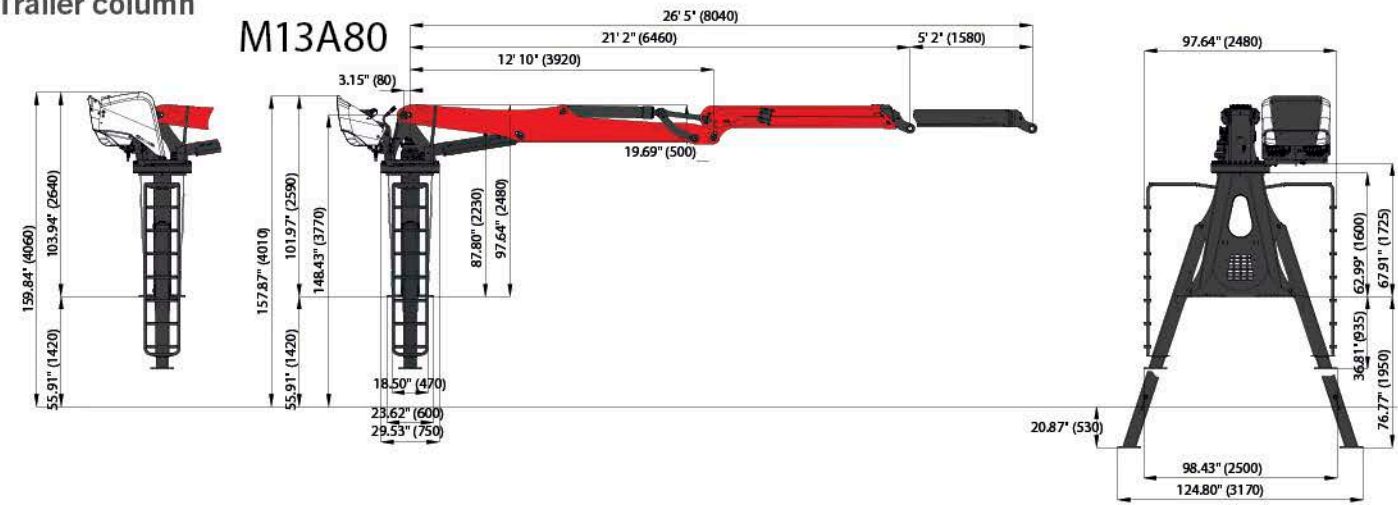
Mechanically fold the EPSHOOD into transport position to protect the Comfort Drive.

THE POWER OF INNOVATION

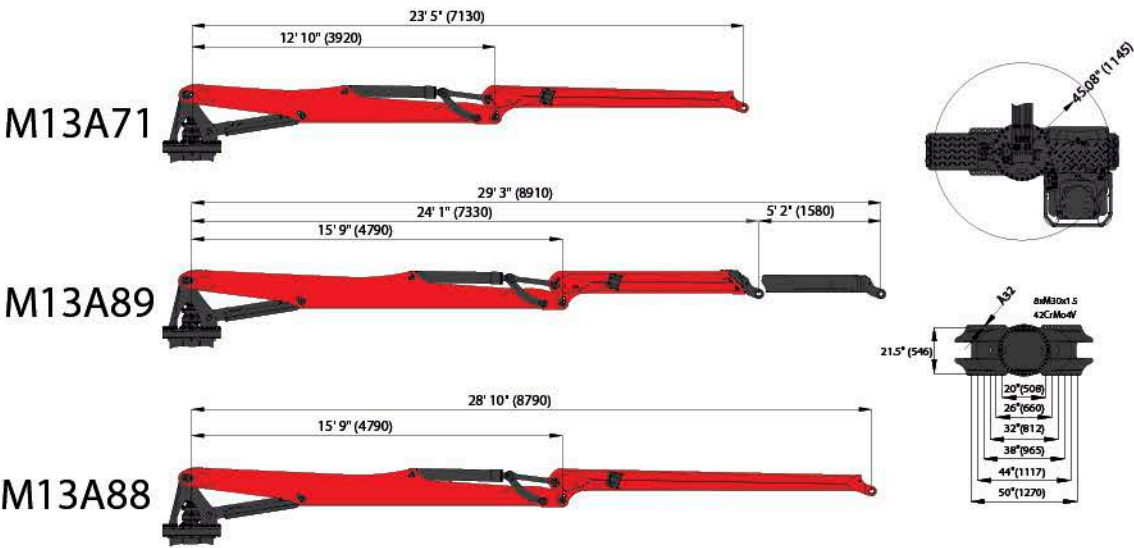
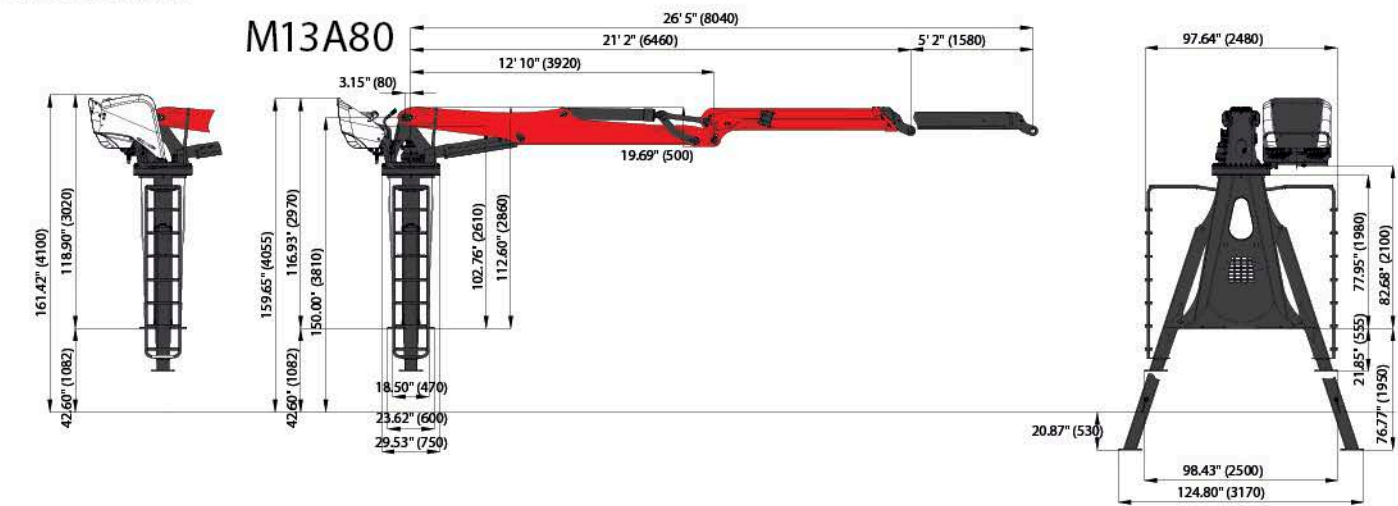


TECHNICAL DETAILS

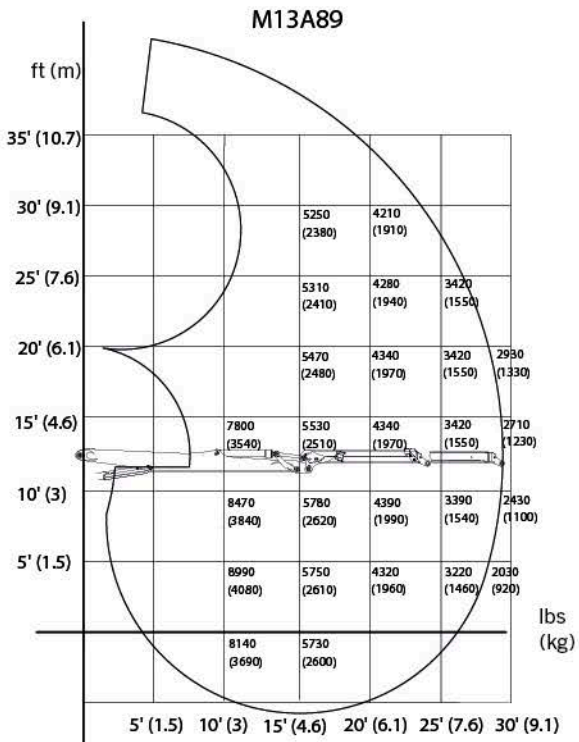
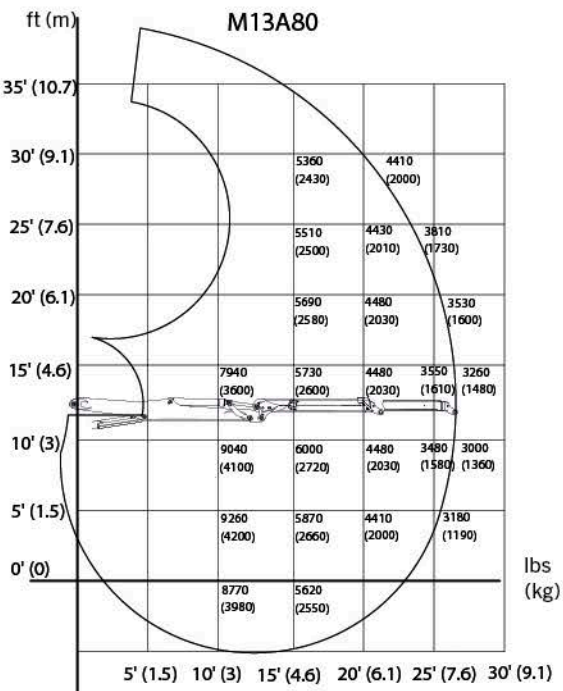
Trailer column



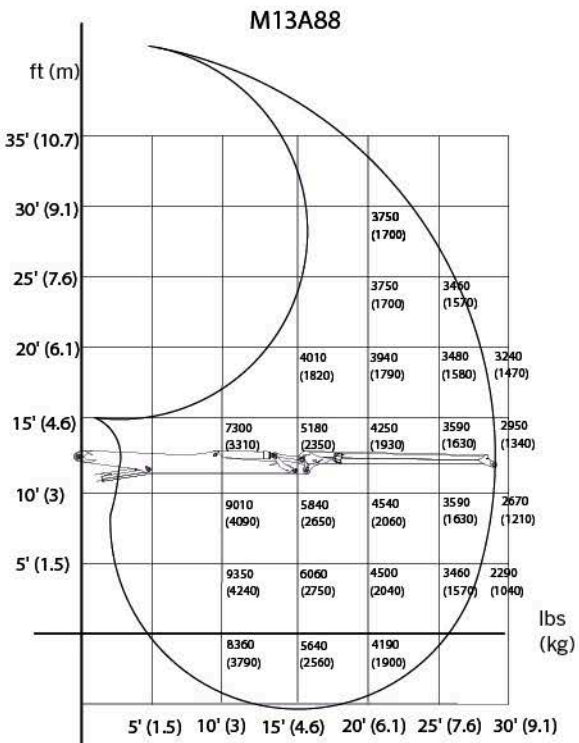
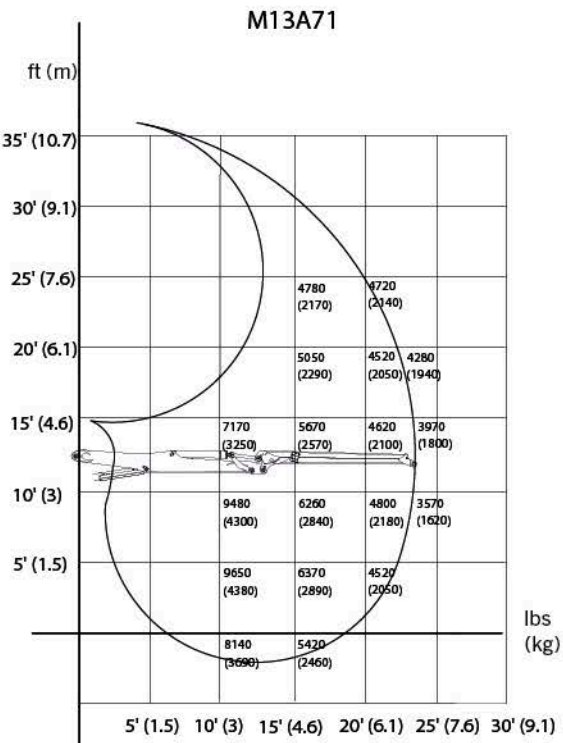
Truck column



Tele booms



Fixed booms



Measurements

boom type
boom system
lifting moment net
slewing torque net
slewing angle
max. outreach
operating pressure
recommended pump capacity
dead weight with trailer column (GAK), without link / rotator
dead weight with truck column (GAL), without link / rotator

	tele		fixed	
	80	89	71	88
[ft.lbs]	92 200	89 250	98 100	92 200
[ft.lbs]	14 010			
[°]	endless			
[m]	26' 5"	29' 3"	23' 5"	28' 10"
[psi]	3 410			
2K [US gal./min]	2x 21			
[lbs]	5 090	5 220	4 740	4 940
[lbs]	5 280	5 410	4 930	5 110

	tele		fixed	
	80	89	71	88
[kNm]	125	121	133	125
[kNm]	19			
[°]	endless			
[m]	8,0	8,9	7,1	8,8
[bar]	235			
2K [l/min]	2x 80			
[kg]	2310	2370	2150	2240
[kg]	2395	2455	2235	2320



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Cranes shown in the leaflet are partially optional equipped and do not correspond to the standard version. Country-specific regulations must be observed.
Dimensions may vary. Subject to technical changes, errors and translation mistakes.

GUARANTEE AND WARRANTY GUIDELINES

General section

PALFINGER



APPENDIX 3: Product specific Guarantee and Warranty Guidelines

Timber & Refuse Loaders

1. Guarantee and Warranty periods

PALFINGER grants to the contract partner the following guarantee and warranty periods (in each case the condition which occurs first is decisive; wear and tear parts are always excluded):

- 12 months or 1000 operating hours full guarantee; and
- 24 months or 2000 operating hours guarantee on load bearing parts;
- 36 months or 3000 operating hours guarantee for material costs (excluding worktime) for load bearing parts, excluding grab housing and grab arms

The guarantee and warranty period begins in general upon handover to the end customer but in no case any later than 6 months upon delivery from PALFINGER to the contract partner.

2. Load bearing parts

Load bearing parts are defined welding constructions which are not subject to natural wear and tear.

- Base
- Extension box
- Crane column
- Main boom
- Outer boom
- Extension booms
- Cylinder tubes
- Grab housing (only Epsilon wood grabber)
- Grab arms (only Epsilon wood grabber)
- Power link
- Turntable
- Outtrigger box (SRX39 and SRX47)

3. Wear and tear parts

Wear and tear parts are such parts which during normal operation become subject to natural wear and tear; Defects of materials or installation faults are not considered wear and tear.

Wear and tear parts include in particular:

- guide blocks
- bearings
- bearing bushes



- seals
- protection hoses
- fuses, lamp holders
- stickers

4. Seals and settings

Seals on the PALFINGER product may be removed only by qualified specialists from an authorized PALFINGER dealer and upon prior consultation of PALFINGER. In the event of the removal of the original seal the form A1 must be completed, duly executed and sent to PALFINGER (Fax, email etc.). The undersigned company shall be liable for the correct pressure setting and pump capacity of the crane.

All settings of valves by the body manufacturer (e.g. on the variable pump or the control valve, if the PALFINGER product was delivered by PALFINGER without such control valve) shall be made in accordance with manufacturer's specifications and a seal must be correctly applied (with a registered tool).

PALFINGER must be notified of the settings with form A1.

5. Extended guarantee

With the purchase of the optional extended warranty program listed in the most current Palfinger Price List, the standard warranty can be extended to a maximum period of 24 months. The optional extended warranty must be purchased with the Loader to be valid. The extended warranty becomes void if the contracting partner does not register the Loader within the time limit set out in the main section of the Guarantee & Warranty Guidelines.

- Maximum 1000 operating hours per year.
- The extended warranty program does not extend to hydraulic pumps and attachments such as grabs, rotators, pallet forks, etc..

This extended warranty excludes the painting (KTL/powder coating), PEC equipment, accumulators/batteries, and wear and tear parts pursuant to point 3.

6. Subsequent purchase of guarantee

PALFINGER grants the possibility to subsequently purchase an extension of the full guarantee for a product that was already handed over pursuant to point 5 (Extended guarantee)

This option for a purchase is only possible within 9 months upon the date of delivery (by PALFINGER).

7. Freight Allowance

Transport costs of spare parts supplied and used in a warranty repair will be reimbursed, when properly claimed, as a Freight Allowance, at a flat rate of 10% of the net value of reimbursed parts.



8. Hourly Rate Schedule

For all contracting partners, as a minimum PALFINGER warranty reimburses 100% of the contracting partner's posted shop labor rate with a maximum rate of \$100.00/hr* and a minimum rate of \$60.00/hr*.

To activate the hourly rate and to allow claims to be processed, or to notify PALFINGER of a change in posted shop rate, the contracting partner must email their official shop rate on their company letterhead accompanied with a photograph of the posted shop rate. If no notification of shop rate is received, the minimum rate will be used. The Repair Date, not the Claim Date shall be used in determining the labor rate that can be claimed.

**For contracting partners in Canada, the above dollar values are in Canadian Dollars. For contracting partners in United States, Mexico, Central America, Caribbean, and South America the values are in United States Dollars.*