

MOBILE TRAINING TOWERS

**JOINER RELIABILITY AND MAINTENANCE, INC.
81 JOINER ROAD HAWKINSVILLE, GA 31036 PH: (478) 783-0056**

Sean Baker
Town of Palm Beach Fire Department

March 27, 2024

RE: Mobile Training Tower Inspection and Quote

Dear Mr. Baker,

Visual inspection of West Palm MTT 2009 model manufactured by Riverside Metal Craft performed on April 20, 2023. Observations/defective components noted as follows:

- Generator cover dented and fuel tank needs replacing
- Belly tank severely corroded-needs to be cut out
- Hold down straps (4" yellow) sun damaged and require replacement
- Air storage tank for trailer air brake system severely corroded and needs to be replaced as well as a complete DOT brake/axle inspection
- Trailer wiring needs to be placed in a conduit to protect from UV and corrosion
- Pivot points for tower severely corroded and should be inspected after sandblasting and most likely will require repairs
- Hydraulic hoses exposed to elements need to be replaced if cracked/brittle, damaged
- Outrigger cylinders corroded on the shafts – cost effective to upgrade to longer/wider outriggers using existing blocks if they pass inspection after sandblasting
- All pivot pins/cylinder pins corroded and need to be replaced
- Entire trailer needs to be sandblasted and checked for corrosion especially in welded joints
- Main lifting cylinders are corroded on the shafts and will require replacement – not economically feasible to rebuild these cylinders
- Window bolts, lanyards, pins, cotter pins on anchors, top working gate hardware corroded and need to be replaced with stainless steel hardware
- Galvanized steel frame in great condition – no structural defects or heavy corrosion
- Wheels rusted and should be inspected and painted
- Exterior corrugated galvanized siding in great shape - a few ends/areas can be veneered with aluminum if needed to be removed at edges
- Outrigger pads need to be replaced

Options for Repair

Refurbish Existing MTT

- Service generator, test battery and new fuel tank
- New air tank for trailer air-brake system
- Sandblast entire trailer after removing tower from trailer to perform a better inspection of structural members – weld any cracks/reinforce if needed
- Cutout belly tank, add new braces underneath and install a bolt-in aluminum tank
- New external hydraulic hoses, pump, coupling elements – inspect valves
- Fabricate new outriggers, outrigger cylinders, outrigger pads
- New remanufactured main hydraulic cylinders and pins
- Replace all window bolts, lanyards, pins, cotter pins on anchors, top working gate hardware with alloy stainless steel
- Put wiring in looms to shield from UV damage and corrosion
- Replace back galvanized flat sheet panel with aluminum
- Inspect and paint wheels – inspect tires
- Service and replace bolts in landing gear with alloy stainless steel hardware
- New 4” yellow hold down straps
- Cover rear of trailer (wires, hoses, axles) with aluminum decking
- Edge top of tower windows with aluminum to protect ropes
- New rappelling anchors rings, SS cotter pins in existing shackles
- Add belay swivel anchors at bottom of tower
- Paint trailer with epoxy primer system and PPG 2 component alkyd enamel
- Price does not include pickup or delivery of MTT
- Price does not include defective equipment/issues discovered during disassembly of unit or start-up after assembly (motor, lights, switches, cracked structural members, etc)
- JRAM warranties workmanship for 1 year but cannot warranty existing equipment or conditions on a product not manufactured by JRAM

TOTAL ESTIMATED PRICE \$94,550.00

If we find any defective conditions or components that will impact your reliability or our timeline we will immediately contact you with a proposed resolution and a mutually agreed upon price. Please let me know if you have any questions or concerns. We look forward to working with you. Thank you for this opportunity.

Fabricate and Couple New Trailer to Existing Tower

- Utilize existing tower frame, generator, electrical panels, hydraulic valves, hydraulic tank, motor, pump, undamaged hoses, etc
- New kingpin, air braked trailer with tandem axles (2 dual wheel axles, 8 tires) new outriggers painted with epoxy primer system and PPG 2 component alkyd enamel
- New trailer has 12" HD I-beam frame with no belly tank and covered at rear deck with 6 diamond plate aluminum toolboxes
- Remove tower from older trailer and couple to new trailer
- New remanufactured main hydraulic cylinders and pins
- Replace all window bolts, lanyards, pins, cotter pins on anchors, top working gate hardware with alloy stainless steel
- Put wiring in looms to shield from UV damage and corrosion
- Replace back galvanized flat sheet panel with aluminum
- Edge top of tower windows with aluminum to protect ropes
- New rappelling anchors rings, SS cotter pins in existing shackles
- Add belay swivel anchors at bottom of tower
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TOTAL PRICE \$130,602.00

We have a single axle trailer from where we purchased one of the older Riverside Metal Craft units. It has 4 large toolboxes instead of a belly tank and an open area in the middle to store gear. We can put new tires, wheels, axle on this unit and add your existing tower frame, generator, electrical panels, hydraulic valves, hydraulic tank, motor, pump, undamaged hoses, etc to it. We will mate/couple the components together then separate them, sandblast and paint the trailer with epoxy primer system and PPG 2 component alkyd enamel. The trailer frame is in great shape and would be a good single axle solution. All of the MTT's that we currently manufacture use a tandem dual wheel axle assembly (8 tires instead of 4). This conversion would include the scope of adding a new trailer and would cost \$108,431.00.

If we find any defective conditions or components that will impact your reliability or our timeline we will immediately contact you with a proposed resolution and a mutually agreed upon price. Please let me know if you have any questions or concerns. We look forward to working with you. Thank you for this opportunity.

All New Mobile Training Tower

JRAM will purchase/credit your MTT as a trade-in

Price does not include delivery of New MTT to Town of Palm Beach Fire Department

****cost for picking up MTT from Town of Palm Beach Fire Department is \$2900.00****

4-Story Unit

Fully Loaded Model \$259,745.00

Trade-In Value - \$47,800.00

New Price Balance \$211,945.00

Pick-up Freight \$2900.00

TOTAL BALANCE \$214,845.00

3-Story Unit

Fully Loaded Model \$232,750.00

- \$47,800.00

New Price Balance \$184,950.00

Please note, this price does not include any trailer issues such as tire failures, bearing issues, brake issues, etc. If during transport, we encounter any issues we will pay to have it resolved unless it involves an extensive repair, and we will add those costs plus 10% to the final invoice for transportation. Palm Beach Fire Department will be responsible for road worthiness of MTT, including US DOT and State trailering regulations.

Thank you,

Tripp Joiner

Mechanical Engineer

Joiner Reliability and Maintenance

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