



**OSHKOSH
SPECIALTY
VEHICLES**

SPECIFICATIONS AND FEATURES FOR AN OSHKOSH SPECIALTY VEHICLES SELF PROPELLED MOBILE MAMMOGRAPHY UNIT

Certified and approved Mobile Mammography Units are designed and manufactured by the Oshkosh Specialty Vehicles in accordance with the site plan requirements of the medical equipment manufacturer selected by the Customer. The following features apply:

I. CHASSIS

- ❑ **Aluminum Wheels:** The radial tires are mounted on aluminum rims for excellent appearance.
- ❑ **Leveling Legs:** Four (4) heavy duty, 15,000 lb capacity, electro-hydraulic landing legs are installed on the front and rear of the chassis to level the unit at the operating site. Landing leg controls are conveniently housed in an underbody compartment, shielding them from weather and road grime.

II. STRUCTURAL

- ❑ **Mounting Plates:** Aluminum mounting plates for medical equipment and electronics cabinets are welded in place, ensuring that critical components will be secure during transport.
- ❑ **Body Structure and Framing:** The vehicle body is designed and constructed of extruded aluminum sections and tubing which is welded into an incredibly strong framework, yielding a 102" overall width. This conservative approach yields an exceptionally strong, rigid super structure for the installation of doorframes, the wheelchair lift and exterior body panels.
- ❑ **Body Panels:** The exterior skin of the unit consists of commercially available aluminum panels that are mechanically fastened in place.



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II. STRUCTURAL (Continued)

- ❑ **Insulation:** The walls, floors, ceiling, and underbody compartment are fully insulated with a combination of sprayed in, expanding polyurethane foam and a foil-bubble-bubble-foil insulation. This produces an effective vapor and insulation barrier for heat, cold, and exterior noise.
- ❑ **Vapor Barrier:** A vapor barrier, installed along the full length of the unit floor, prevents moisture and odors from emanating into the unit.
- ❑ **Underbody Compartments:** The underbody storage compartments are manufactured of welded aluminum and insulated.

III. EXTERIOR

- ❑ **Painted Surface:** The body is painted to commercial grade specifications. Unit is painted standard white (colors may be customized for additional costs).
- ❑ **Main Entry Door:** A high quality insulated main entry door with door closer and window is installed. The door is fitted with an adjustable privacy blind/shade on the window.
- ❑ **Drip Rails:** Drip rails are installed over the main entry door, wheelchair lift door and along the roofline on all sides of the mobile unit.
- ❑ **Fold Out Stairs:** An aluminum stair assembly is provided for entry into the reception area. The stairs simply fold out from the underbody of the unit. A grab handle is also fixed on the body of the vehicle.
- ❑ **Underbody Compartment Doors:** Underbody compartment doors, corrosion resistant and lockable, include heavy-duty gaskets to minimize the ingress of road grime and water. The doors are hinged at the top, open from the bottom and are held open with a gas assist cylinder.



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III. EXTERIOR (Continued)

- ❑ **Bubble Style Level Gauges:** Three (3) permanently mounted bubble levels are mounted on the unit for quick reference.
- ❑ **Reflective Tape:** Red and white striped highly reflective tape is installed around the perimeter of the unit for safety and increased nighttime visibility.
- ❑ **Door Safety Latches:** Latches are located on the exterior to keep doors in the fully open position, when desired.

IV. INTERIOR

- ❑ **Steel Shielding** Steel shielding is installed in the partition walls and doors.
- ❑ **Solid-Surface Countertops:** Countertops and work surfaces are installed in the reception area and scan room.
- ❑ **Ceiling:** The ceiling in the mobile unit is constructed with highly reflective, insulated acoustical tiles for reduced noise. To enhance the work area, a combination of surface mounted and recessed lighting is installed in the mobile unit.
- ❑ **Storage Cabinets:** Lockable, decorative, laminated storage cabinets with adjustable shelves and positive cam latches are provided in the reception area and scan room.
- ❑ **Changing Rooms:** Two (2) changing rooms are provided with full-length mirrors, coat hooks, bench seat, and privacy doors.
- ❑ **TV/DVD** A name brand TV/DVD will be installed in the reception area, allowing for educational messages to be viewed.
- ❑ **Stereo System** Dash mounted AM/FM stereo receiver and CD player. High Quality speakers are installed in each area with individual volume control.
- ❑ **Reception Area:** A bench seat is provided in the reception and waiting area. Ample storage cupboards are installed above the bench seat area. A receptionist desk is installed on the right side of the mobile unit.

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IV. INTERIOR (continued)

- ❑ **Wall Coverings:** The mobile unit incorporates extensive use of high quality hospital grade wall coverings. All materials have been selected for ease of cleaning and durability. Particular attention has been paid to the selection of color schemes to insure proper contrast and compatibility with the medical equipment.
- ❑ **Floor Covering:** An attractive hospital grade, durable vinyl flooring is provided throughout the mobile unit. This single piece flooring is easy to keep clean, eliminating the build-up of dirt in seams.
- ❑ **A/C Discharge Louvers:** Ceiling mounted air-conditioning discharge louvers are configured to minimize downdrafts while providing the proper airflow to maintain specified ambient environmental conditions.

V. ELECTRICAL & ENVIRONMENTAL SYSTEMS

- ❑ **Main Electrical Disconnect Panel:** The main 240V AC single phase electrical incoming power disconnect panel is located in the left side underbody storage compartment.
- ❑ **Electrical Distribution Panel:** An electrical distribution panel is located in the rear of the unit. This panel provides the ability to isolate the certain sections of the unit for maintenance and service.
- ❑ **Emergency Lighting Inside the Unit:** An automatic emergency lighting system is installed in the mobile unit to provide light, when the power supply is disconnected.
- ❑ **Underbody Compartment Low Voltage Lighting System:** Manually operated, low voltage lights are installed in the underbody compartments to provide light during set-up of the unit.
- ❑ **Lighting Controls:** Separate lighting system controls for the scan room, reception area and changing rooms permit the operator to individually control the lighting in each area.
- ❑ **Service Outlets:** One (1) GFCI 120 VAC duplex service outlet is installed on each side of the underbody compartments.

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V. ELECTRICAL & ENVIRONMENTAL SYSTEMS (continued)

- ❑ **Marker Lights:** Extra L.E.D. type marker and side turn signal lights are installed on the unit body to assist the driver with maneuvering the unit.
- ❑ **Entry Door Lights:** Two (2) exterior, weatherproof, surface-mount lights; one (1) above each door.
- ❑ **DC power Supply:** One DC power supply is located in the underbody to maintain the 12 VDC lighting. The other DC power supply consists of a 1.5 amp trickle charger mounted on the generator to charge the generator batteries.
- ❑ **Air Filter:** Replaceable air filters are mounted in the air conditioning units on the rear of the mobile unit.
- ❑ **Air Conditioning System:** A high performance air conditioner (36,000 Btuh) is mounted on the rear of the mobile unit. This system provides close tolerance temperature levels to assure proper equipment function as well as staff and patient comfort.
- ❑ **Thermostats:** Fixed temperature controls ensure the proper operating temperature ranges for customer, provided medical equipment, and staff. This eliminates the operators from adjusting temperatures that could result in damage to the system electronics and reduced performance.
- ❑ **HVAC Distribution:** Individual air distribution for the patient care and reception areas ensures an adequate air supply to the temperature sensitive medical equipment.
- ❑ **A/C Ductwork:** The air conditioning ductwork is lined with a sound absorbent material for reduced noise and operator and patient comfort.
- ❑ **Generator:** A 20KW diesel generator is standard. Depending on customer options (i.e. cold weather package) a 30KW generator may be necessary for an additional charge. The generator will be installed with an engine block heater and will be installed in the underbody of the mobile unit to keep the generator out of the elements. The generator maintains the environmental control system and emergency backup power for equipment while the mobile unit is in use or in transit.



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V. ELECTRICAL & ENVIRONMENTAL SYSTEMS (continued)

- ❑ **Humidifier:** A packaged steam humidifier system with 15-gallon water storage tank, installed in the rear of the scan room, interfaces with the air conditioning ductwork to provide consistent humidity levels throughout the mobile unit. Maintaining humidity levels for the medical equipment is critical for proper operation and reduced downtime.

- ❑ **Main Power Cable and Connector:** A flexible fifty (50') long electrical power cable with a weather resistant connector with protective rubber collar is provided and stored in the underbody storage compartment. The cable can be deployed from either side of the underbody compartment.

- ❑ **Automatic Transfer Switch (ATS):** An ATS is installed in the underbody compartment. This unit will automatically start the on-board generator and switch to generator power in the event of a power loss.

- ❑ **Telephone and Data Connections:** Two (3) telephone and two (3) data Hubble type connections are installed in the control room of the mobile unit.

Two (2) fifty (50') weatherproof Hubbell connection cords are supplied with the unit and are stored in the underbody compartment.

- ❑ **Certification:** The OSV mobile mammography unit and equipment installation is certified by the original equipment manufacturer.

VI. ADDITIONAL FEATURES and SERVICES

- ❑ **Site Planning:** OSV mobile unit site planning guides are available upon request. This comprehensive guide provides essential dimensions and specifications to prepare your site pad, electrical and communication connections.

- ❑ **Manuals:** Every new mobile mammography unit comes with a set of operator maintenance and service manuals.

- ❑ **Training Program:** OSV offers a product orientation and training program for key personnel with the delivery of each mobile unit.



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VII. SAFETY FEATURES

- ❑ **Common Floor Height:** The patient care and personnel entry interior floors are all at the same height for safety.
- ❑ **Entry Lighting:** An exterior light fixture is installed near each point of entry in the mobile for safety.
- ❑ **Emergency Off:** A medical system "Emergency Off" button is conveniently located in the scan room.
- ❑ **Emergency Lighting:** Exit signs and emergency lighting are placed in key areas of the mobile unit to help in an evacuation upon a power failure.
- ❑ **ABS Braking System:** An approved anti-lock braking system is installed for increased safety.
- ❑ **Backup Warning Alarm** An automatic audible "Back Up Warning Alarm" is installed to warn that the unit is backing up. The alarm will sound whenever the unit is put into reverse.
- ❑ **Smoke Detectors** The unit is fitted 110-VAC smoke detectors with battery backup.
- ❑ **Fire Extinguisher:** Two (2) hand-held ABC all-purpose, dry chemical non-ferrous fire extinguishers are provided. One is installed in control room, gantry room and equipment room.
- ❑ **Fire Detection** An automatic fire detection system is installed throughout the mobile unit. Terminal contacts for connection to a remote fire alarm enunciator panel are provided in the underbody compartment.
- ❑ **X-ray Power On Light:** Located on the exterior of the unit above the patient/equipment door and on the interior on the unit above the door to the scan room.



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VIII. CUSTOMER SERVICE and WARRANTY

- ❑ **Customer Service Center:** OSV operates a toll free Customer Service Hotline, 1-800-839-0630, for all of your service, parts and warranty issues. The hotline, answered by a “human being,” is in operation 24 hours a day, 7 days a week, 365 days a year, at 800-839-0630
- ❑ **Body Warranty:** A one (1) year structural integrity warranty is standard on an OSV mammography body.

VIII. CUSTOMER SERVICE and WARRANTY (continued)

- ❑ **Parts:** We carry a large inventory of replacement parts for your OSV mobile unit. We have a listing of our most common parts on our web site.
- ❑ **Field Service:** Customer service support is provided by a combination of OSV field service technicians, original equipment manufacturers and authorized third-party service centers.

IX. AVAILABLE OPTIONS

- ❑ **Backup Camera & Monitor:** Monitor located in the cab to assist the driver in backing the vehicle. Additional cameras are available for viewing passenger entry or other areas.
- ❑ **Intrusion Alarm** Alarm system that utilizes both motion and door/window switches installed for added security
- ❑ **Digital Levels:** Three (3) automatic digital leveling indicators are mounted in the mobile unit. These digital levels, which read front-to-rear and side-to-side, assist the driver in setting up the vehicle at the operating.
- ❑ **Fire Suppression** The entire mobile unit can be protected with a fire suppression system. The fire suppression system provided deploys quickly and cleanly and won't leave behind oily residue, particulate, or water.



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IX. AVAILABLE OPTIONS (continued)

- Intercom** An intercom system can be provided for communications between the reception area and scan room area.

- Staff Convenience** A small galley area will be provided including a microwave, refrigerator, small countertop space, and an over-head cabinet.

- Wheelchair Lift:** A Ricon S series lift (door mounted) or Braun cassette-style under slung wheelchair lift can be installed on the right side of the mobile unit. Both of these compact chair lifts will provide access into the reception area. The lifts are controlled by a flexible, hand-held, low voltage, waterproof toggle switch assembly, which allows the attendant to effortlessly operate the lift as required.

- 10 kVA UPS
(Uninterruptible
Power Supply)** In event of power loss the UPS will provide enough time to properly shut down the medical system.

- Exam Table** Can be provided if the exam room option is selected.

- Stool** Can be provided if the exam room option is selected.

- Portable Sink** A roll around sink is provided for technician use in the scan room.

- Bathroom** Bathroom includes sink (with cabinet above) and toilet.

- Slide-Out Section** This is provided in the front of the mobile unit if a separate exam room is requested. Exam room will have an exam table, cabinets, and counter-top work space.

- Transport Warning
System:** An integrated warning light assembly is located on the left side of the trailer, providing easy visibility for the driver from his position in the tractor. The comprehensive warning lights provide confirmation for whether or not the unit is ready for transport (warning lights for items such as entry doors and compartment doors not being closed or landing legs not in there full "up" position).



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IX. AVAILABLE OPTIONS (continued)

Cold Weather Package

1. Weather curtain for the wheel-chair lift entry door. This thermal curtain would slide across this door entry and Velcro around the sides minimizing cold drafts coming into the vehicle. Since the wheel-chair lift door will not be used as frequently the thermal curtains would be efficient at this access points.

2. One full heat support 27,300 BTU/HR (8kW) ESPAR brand diesel heater. This would be used to supplement the current heater in extreme cold temperatures. If power is completely lost this heater is still able to run because it runs off diesel fuel and a battery. The ESPAR heater has 115W mean power operation and uses approximately 3/8 gallon of diesel per hour.

3. Extra spray-in foam insulation applied to the van body sub walls, ceiling, and sub floor. An R-Value of 15 would be yielded.

4. Outlet for engine block heater interfaced to the line-generator disconnect switch. This would provide engine warming while the vehicle is parked at a site.

5. Low temperature hydraulic oil for landing gear. This would prevent the landing legs from slowing in extreme cold temperatures.