

SPECIFICATIONS AND FEATURES FOR AN

OSHKOSH SPECIALTY VEHICLES MOBILE MAGNETIC RESONANCE IMAGING SYSTEM

Certified and approved mobile MRI 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

□ Chassis: The foundation of every mobile MRI unit is a custom

designed chassis consisting of two (2) 17" deep welded aluminum I-beams, with 8" outer "C" channels and 6" cross member "C" channels. All structural members are welded and gusseted together, yielding the strongest and most durable medical trailer chassis on the market.

□ Axles: MRI trailers include two (2) heavy-duty 20,000 lb.

capacity axles or a 10'-0" spread.

Hub-O-Meter: A Hub-O-Meter is installed on the left side rear axle to

allow the driver to maintain a record of the trailer

movement.

Air Ride The axles are installed on an automatic air ride

Suspension System. The proper ride height is system.

Suspension suspension system. The proper ride height is set at the

System: factory.

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I. CHASSIS (Continued)

Air Ride Kingpin Bolster Plate: A low profile air ride kingpin bolster plate is installed on the front of each chassis to provide air-cushioning support for the sensitive electronics installed in the mobile unit.

Mounting Plates:

Aluminum plates for the MRI system magnet and the electronics cabinets are welded in place, ensuring that critical components will be secure during transport.

Radial Tires:

Eight (8) premium quality radial tires are provided for

durability and extended service life.

□ Aluminum Wheels:

The Radial tires are mounted on eight (4) aluminum rims: the outer four (4) rims are polished aluminum and

the inner four (4) rims are steel.

Portable Support Stands: Two (2) portable support stands are included to stabilize

the rear of the Mobile unit at the site.

Landing Legs:

Two (2) electro-hydraulic landing legs with security stabilizing pins are installed on the front of the trailer, to both offload the trailer from the tractor and to assure positive fixed height of the unit at the operating site. Landing leg controls are conveniently housed in an underbody compartment, shielding them from weather and road grime for reduced repair cost and extended

operational life.



II. Structural

Body Structure and Framing: Specifically designed and constructed aluminum body, consisting of extruded aluminum 2" x 2" tube, welded into an incredibly strong framework, creating a 102" overall width. This conservative approach yields an exceptionally strong, rigid super structure for the

installation of magnetic shielding, doorframes, platform

lift and exterior body panels.

Body Panels:

The exterior skin of the trailer consists of commercially available aluminum panels that are mechanically fastened in place.

Insulation:

The walls, floors, ceiling, and underbody compartment are fully insulated with, sprayed in, expanding polyurethane foam. 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 trailer floor, prevents moisture and odors from emanating into the trailer.

UnderbodyCompartments:

The underbody storage compartment is manufactured of welded aluminum. It is insulated, heated and coated with a commercially available spray-on bed liner. This results in a coating that is easy to clean, reduces maintenance, increases sound attenuation, and provides an excellent appearance.

III. EXTERIOR

Painted Surface:

The entire trailer body is painted with DuPontTM ImronTM paint process that is certified and carries a limited 5-year warranty. This ensures the aluminum exterior panels, compartment and entry doors, air conditioner and generator are all the same shade.

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III. EXTERIOR (Continued)

Platform lift:

A high capacity, vertical movement platform lift with safety rails is installed on the curbside of the mobile unit. Patients prefer the OSV lift because of its smooth, straight up and down travel. The lift is stowed on the side of the mobile unit for transport, thus yielding additional underbody compartment space. Two (2) security storage pins are mounted on the lift gate cradle to lock the lift platform in place during transport from one location to the next. The leading edge of the lift is fitted with a high-density plastic scratch guard with rubber feet at the rear to prevent the paint from being chipped by stones at the site.

Platform lift Controls: The platform lift can be controlled by either a flexible, handheld, low voltage, waterproof toggle switch assembly or switches located near the roll door. This allows the attendant, while on the platform lift, to effortlessly raise or lower the platform lift as required.

Platform lift Canopy: A canvas and aluminum rollout canopy is positioned above the roll door to help protect against bright sunlight, rain, snow, etc.

Roll-Up Door:

The insulated roll-up door permits easy patient access from the lift into the mobile unit Control Room. The door can be controlled from pushbutton switches located both in the control room and on the outside of the Unit. It is powder coated for lasting durability. For security purposes the door has an on/off switch located inside the unit.

Roll Door Emergency Release: A cable operated, roll door emergency release mechanism is installed above the roll door controls. When pulled the emergency release will disengage the roll door clutch motor allowing the roll door to be opened manually by the staff.

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III. EXTERIOR (Continued)

Main Entry Door: A high quality, all aluminum, insulated main entry door

with door closer and window is installed on the right side of the trailer. The door is fitted with an adjustable privacy blind on the window. The exterior handle and deadbolt lock is located 80 in. from the ground; there is one footstep on the side for entry door entrance allowing easy access to the lock without the entry stairs being

deployed.

Drip Rails: Drip rails are installed over the main entry door, rear

access door and the front emergency exit service door and also along the roofline on all sides of the mobile unit.

Aluminum Stair

Assembly:

An aluminum stair with large top step assembly with handrail for staff entry into the control area is provided. The stairs include two (2) adjustable feet to assist with

leveling the stairs at the site.

Emergency Exit/ Service Door: A 36 inch wide positive latching, insulated emergency exit/service door is installed on the left side of the trailer

in the equipment room.

 Footstep and Grab Handle, Rear Service Door: Three (3) heavy-duty, zinc die cast bright chrome finished, flip down footsteps and a grab handle are installed on the rear of the trailer to facilitate entry into the rear of the trailer (behind the magnet).

Underbody Compartment Doors: The underbody compartment doors are:

- Recessed to prevent moisture from entering
- Insulated and Double sealed
- Corrosion resistant aluminum
- Lockable
- Hinged at the top
- Opened with a gas assist cylinder

□ Level Gauges: Three (3) permanently mounted level gauges, 1 in the

front, 1 on the left side and 1 on the rear are provided to

assist with leveling the unit.

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III. EXTERIOR (Continued)

□ Scene Lighting: Recessed scene lighting is placed on the back and each

side of the trailer to assist with sighting the trailer at night. The lights are on a 30-minute timer that is housed

in the underbody compartment.

Reflective Tape: Red and White striped highly reflective tape is installed

around the perimeter of the trailer for safety and

increased nighttime visibility of the trailer.

Lockbox: A weatherproof, steel combination lockbox is mounted on

the front of the trailer to store keys.

Exterior Graphics: An allowance of \$1,150.00 is included in the price of the

mobile unit for the provision and installation of custom

vinyl graphics on the exterior of the mobile unit.

Warning Lights: A Warning Lights assembly located on the forward left

side of the unit provides a visual indication of AC Power

"ON" status, Transport Warning status, and ABS

Warning status.

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IV. INTERIOR

A proprietary and highly effective magnetic shielding Magnetic Shielding: system is installed on the two (2) sides and rear wall of

the mobile unit. The magnetic shielding system is

designed to meet or exceed the MRI system

requirements of the medical equipment manufacturer.

RFI Shielding: A lightweight, non-oxidizing, aluminum alloy RFI

> shielding system is designed and installed to meet or exceed the rigorous usage patterns of the mobile MRI

unit. The RFI shielding system is tested by an

independent testing laboratory to insure compliance with the site plan requirements of the medical equipment

manufacturer.

□ RF Windows: RF windows are installed in the partition wall and scan

room door. This allows easy patient monitoring from either a standing position or a sitting position at the

operator's console.

Equipment Room

Partition Wall:

The equipment room is separated from the control room by a sound attenuated partition wall and a positive

latched interior door.

Solid Surface

Countertops:

An ergonomically designed solid surface CorianTM countertop is installed in the Control and Scan areas.

This provides a tough wearing surface that will look great

for years and adds a pleasant touch to the working

environment.

Ceilings: 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 lighting is

installed throughout the mobile unit.

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IV. INTERIOR (Continued)

Storage Cabinets: Decorative laminated storage cabinets, featuring

coordinating edge banding to match the CorianTM countertops, include adjustable shelving and positive cam latches. The cabinetry is optimized in the scan and control areas to accommodate customer needs and the

storage of phantoms, coils, etc.

Under Cabinet Und

Lighting:

Under cabinet lighting, controlled by a dimmer switch, provides working light for the technicians work area.

Changing Curtain: A patient changing area in the control room provides a

private, heated and lighted space for changing into a

gown.

Crash Rail: A color coordinating crash rail is provided on the walls of

the scan room to help protect the wall from being

damaged by a gurney.

Artwork: One (1) decorative art print in a high quality frame is

placed in the scan room to enhance the interior

ambiance.

□ 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 high quality commercial grade, durable one-

piece 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.

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Switch:

IV. INTERIOR (Continued)

Stereo System: An AM/FM Stereo receiver with built-in CD player is

installed in the control room wall below the storage cabinets. High quality ceiling mounted speakers are installed in the control room ceiling providing a

comfortable working atmosphere.

□ I.V. Track: A ceiling mounted I.V. drip holder rail track is installed in

the scan room.

Backlit Film
 A backlit, film illuminator is mounted in the control room

Illuminator: above the solid surface countertop.

V. ELECTRICAL & ENVIRONMENTAL SYSTEMS

□ Main Electrical The main 480V AC electrical incoming power

Disconnect Panel: disconnect panel is located in the left side underbody

storage compartment.

Electrical An electrical distribution panel is located in the
 Distribution equipment room. This panel provides the ability to

Panel: isolate the certain sections of the unit for maintenance

and service.

Power Selection
 The mobile unit status panel includes a voltage selector

switch that allows select on shore or generator power.

This panel is located in the left center underbody compartment. LED voltage level; indicator warning

lights for voltage and chiller operation.

□ Roll Door On/off An on/off security switch for the roll-up patient door is

Switch: mounted on the interior wall near the entrance to

enhance the security and safety of the mobile unit.

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Platform liftPosition IndicatorLight:

A green indicator light lets you know when the platform lift is in the up position. This helps to safeguard against opening the roll door when the lift is in the down position. The light is conveniently located near the control door controls to ensure safety of the patient and operator.

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.

UnderbodyCompartmentLow VoltageLighting System:

A manually operated, low voltage lighting system is located in the underbody compartment, providing light during set-up of the unit on a 30-minute timer, except for the fuel and cryogen compressor compartments.

□ Lighting Controls:

Separate lighting system controls for the scan room and control area permit the operator to individually control the lighting in each area.

Service Outlets:

One (1) GFCI 120V AC duplex service outlet is installed on each side of the underbody compartments.

Marker Lights:

L.E.D. type marker and side turn signal lights are installed on the trailer body to assist the driver with maneuvering the trailer.

Cable Reel Service Light: A cable reel service light is installed in the equipment room. This retractable light comes in handy for servicing the system cabinets

Main Entry Door Light: An exterior surface mounted, weatherproof light fixture is mounted on the wall adjacent to the staff entry door and platform lift.

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DC power supplies:

One DC power supply is located in the underbody to maintain the 12V DC lighting. The other DC power supply consists of a 1.5 amp trickle charger mounted on the generator to charge the generator batteries.

Air Filters:

Replaceable air filters are mounted in the air plenum in the Equipment Room of the mobile unit and in the down stream blowers.

 Air Conditioning/ Heating Systems with chiller: A custom designed, high performance air-conditioning system with an integrated cold head chiller gives you piece of mind with its electronic interface panel. This interface panel provides self-diagnostics, telephone interface and a computer interface to monitor performance and pinpoint service issues. The system provides close tolerance temperature levels to assure proper MRI system function as well as staff and patient comfort.

Thermostats:

Fixed temperature, factory set, controls ensure the proper operating temperature ranges for the medical equipment and staff. This eliminates the operators from adjusting temperatures that could result in damage to the system electronics and reduced performance.

HVACDistribution:

Separate air supplies for the equipment and scan rooms ensure 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.

Environmental Testing: OSV mobile Units are environmentally tested and certified for operation at temperatures ranging from

 -20° F to $+110^{\circ}$ F.

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Generator: A sound attenuated 60KW diesel generator, with engine

block heater, is installed on the front of the mobile unit in a corrosion resistant cabinet to keep the generator out of the elements. The generator maintains the environmental

control system, magnet shield cooler, and service equipment while the mobile unit is in transit or in set-

up/take-down mode.

Cold Head Chiller

System:

A custom designed cold head chiller system is integrated into the air conditioning system, freeing up additional

storage space in the underbody compartment.

Fuel Tank: A 70-gallon fuel tank with level indicator is installed in a

separate underbody compartment.

□ Humidifier: A steam humidifier system with 35-gallon water storage

tank, installed in the equipment room, interfaces with the air conditioning ductwork to provide consistent humidity levels throughout the mobile unit. Maintaining humidity levels to medical equipment manufactures specifications is critical to proper operation and reduced downtime.

Main Power Cable and Connector: A flexible, five (5) core, fifty (50') long electrical power cable with a weather resistant Russellstoll DS2504MP 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.

□ Telephone and

Data

Connections:

Three (3) telephone connections, three (3) CAT5 data connections and the A/C chiller data cable is installed in

the control room of the mobile unit.

Three (3) Hubbell type telephone and three (3) data

connections, with three (3) fifty (50') weatherproof Hubbell-cords are installed in the underbody

compartment.

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Certification: The OSV trailer and installation of the medical equipment

is "Certified" by the MRI system equipment

manufacturer.

MedicalEquipmentInstallation:

The MRI magnet, system components and cabling are all

installed by experienced OSV installers.

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 connections, communications connections and

water connections.

Manuals: Every new mobile MRI 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 MRI unit. This four (4) hour training session is available at the manufacturing facility at the time of delivery. If you prefer to have the training at your facility, one of our Field Service Technicians can perform this for an additional

charge.

VII. SAFETY FEATURES

Common Floor

Height:

The patient entry, personnel entry and operating interior

floor are all at the same height for safety.

□ Entry Lighting: An exterior light fixture is installed near the entry door

and patient for safety.

Emergency Off: A medical system "Emergency Off" button is conveniently

located near the entry door.

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VII. SAFETY FEATURES (Continued)

Platform lift Pins: Two safety, locking, pins are located near the platform lift

cradle. These two pins, when properly installed, prevent the platform lift from coming loose and deploying during

transit.

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.

□ Fire Extinguisher: Two (2) hand-held ABC all-purpose, dry chemical non-

ferrous fire extinguishers are provided. One is installed in

control room, the other in the equipment room.

IntegratedTransportWarning 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 warnings for the following

conditions:

480Vac power is on.

The lift is not properly stowed.

The Anti-Lock Braking System is not working

correctly.

Platform liftPosition IndicatorLight:

A green indicator light lets you know when the platform lift is in the up position. This helps to provide a safeguard against opening the roll door when the lift is in the down position. The light is conveniently located near the control door controls to ensure safety of the patient and

operator.

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VIII. CUSTOMER SERVICE and WARRANTY

Customer Service OSV operates a toll free Customer Service Hotline,

Center: 1-800-839-0630, for all of your service, parts and

warranty issues. The hotline is answered by a "human being," 24 hours a day, 7 days a week, 365 days a year.

Warranty: A one (1) year warranty is standard on all of our mobile

units. OSV does offer extended service contracts.

Parts: We carry a large inventory of replacement parts for your

OSV mobile unit.

We also offer on-line part ordering 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. OPTIONS

Patient Sound: A Patient Sound system is installed in the scan room

prior to the delivery of the mobile unit.

□ Sinks: OSV offers two sink options to satisfy either an

operational or a state requirement. A stainless steel sink is available in either a fixed configuration or as a fully

self-contained portable sink.

Patient Gurney: A non-ferrous metal, padded patient gurney can be

added to your order.

□ Fire

Suppression System:

The entire mobile unit can be protected with an fire suppression system. The system tanks are installed in the equipment room to minimize its effect on operating space in the control room. Contacts for remote operation

in belly of unit.

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IX. OPTIONS (Continued)

Fire Detection System: An automatic fire detection system is installed in the scan, control and equipment rooms. Terminal contacts for connection to a remote fire alarm enunciator panel are provided in the underbody compartment.

Bottled GasConnections:

Oxygen and suction connections can be located in the scan room, allowing the use of facility gases and suction eliminating the need to carry bottles on the unit.

Roll Door Curtain:

A thermal barrier curtain is available to help shield the interior of the trailer from sudden changes in temperature when the patient roll door is open.

Intrusion Alarm:

An intrusion alarm system can be installed to monitor activity in the underbody compartments and in the operator's area.

→ Wall Murals:

A 48"H x 146" wall mural of mounted flat on the wall of the scan room. This high quality photographic print is mounted 1/8" Centra with a luster laminate to protect the image from everyday wear and tear. OSV offers you several images to choose from.

Custom Exteriors:

OSV offers custom painted exteriors or bus wrapped exteriors to help you with your branding campaign or to simply get your marketing message out to the public. If you wish to make your mobile unit a rolling billboard we can help you develop the paint or graphics scheme to get your message across.

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Data:

X. SITE PLAN HIGHLIGHTS

Tractor
 Tractor weight of 17,000 pounds or less

Specifications: • Air ride suspension

82" swing clearance between kingpin and cab

34,000 lb. rear bogie rating12,000 lb. front axle rating

Site PadRecommended size 12' x 52'

Requirements: • Pad thickness based on local soil conditions

Pad levelness should be not less than ¼" per 10 feet.

Mobile UnitOverall length: 51'-3"Specifications:Overall width: 8'-6"

• Overall height: 13'-6"

Power requirements: 480 V, 3Ø fused at 150 amps

Personnel door width: 44" O.D. 40¾" I.D.
Platform lift Entry Width: 78¾" O.D. 76¼" I.D.

Triation in Linuy Width. 7074 O.D. 7074 1.D.

Water and
 Plumbing:
 A 35-gallon water tank for the humidifier is located in the equipment room. The tank is fitted with a standard

garden hose connection for convenience.

□ Telephone and There are three (3) telephone and three (3) data cable

connections located in the underbody, near the main power cable. These are standard marine type, Hubbell

connections. There are three 50ft. Hubbell cables

supplied with the trailer.

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