

# LANDA®



**MHC4-30324**  
Shown with optional stainless  
steel top wrap

## **MHC SERIES**

**THE MOST VERSATILE HOT WATER PRESSURE WASHER IN THE FIELD**

# WHY THE NEW MHC IS THE MOST VERSATILE HOT WATER PRESSURE WASHER IN THE FIELD

Meet the new Landa MHC, the most rugged, gasoline-powered, on-site cleaning machine on wheels. No other pressure washer in its class offers so much quality, safety, ease of service, functionality and stability in a medium-duty package.

There are six MHC models to choose. All powered by Honda & Subaru-Robin engines—7 to 13 HP. Three models feature both electric and recoil start, and three feature Landa's battery-less system utilizing Landa's proprietary Super Duty Regulator (SDR) which allow the machine to operate without the need for a battery or magneto system.

## Built to Last

From the heavy duty Landa Pump and energy efficient 12-volt burner to the single-piece, welded steel frame and legendary Landa heating coil, the MHC is built to last.

## Safe to Use

In addition to its ETL certification to the rigid UL-1776 safety standards, the MHC has many safety features, including adjustable thermostat, rupture disk, wheel brake, 24-inch hose guard and tri-lingual operator instructions & warning labels.

## Easy to Service

The MHC has been engineered with the service tech in mind, providing easy access to components, JIC fittings throughout, easy-reach battery box, water resistant control panel with tachometer and hour meter, end mounted burner, an oil drain hose and Landa's unique design for accessing the heating coil.

## Functional & Stable

It's often the little details that make such a big difference when comparing high end equipment. For instance, the MHC comes with four color-coded stainless steel nozzles, extra strong Tuff-Flex high pressure hose, a variable pressure wand and detergent injector. It has also been engineered for stability, including a fully welded 1 1/4-inch steel frame, 13-inch tubed all terrain tires and engine vibrations mounts. The MHC is rock solid.



MHC4-35324E  
Shown with optional stainless steel top wrap, caster wheel kit and float tank

## MHC APPLICATIONS

### What does it clean?

The MHC is ideal for cleaning outdoors with hot water, such as:

- Front-end loaders
- Forklifts
- Dump trucks
- Graders and dozers
- Farm equipment
- Tractors and trailers
- Buses, trains, planes
- Walls, floors, ceilings
- Machinery and equipment
- Drills, pipelines
- Street maintenance equipment
- Rental equipment
- Marinas and boats
- Trash bins
- Tanks, cages, pens

## How the MHC is.... **Built to Last**



**LANDA PUMP**

guides. Landa pumps are backed by a full 7-year warranty.

**Benefit:** Reliability is the key when moving parts are involved and nothing sees as much action as the high-pressure pump. Top quality components and aggressive warranty give the customer confidence of having the best.



**STEEL FRAME AND CHASSIS**

from damage while in transit or being bumped while on the job site. The cage's strength and durability comes from it being a single piece construction and because the frame is made of square, rather than round, tubing. Both the frame and chassis are backed by Landa's five-year warranty. The epoxy powder coat finish, a process in which the paint is literally "baked" into the metal, provides all-weather protection far superior to typical paint.



**FITTINGS**

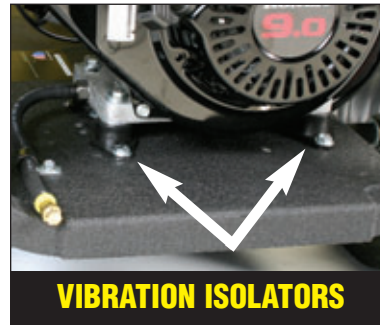
**1 Feature:** Oil-bath, three-piston (triplex), high pressure Landa pump with die-cast aluminum crankcase, forged brass head, high quality Parker seals, hydrolysis-resistant valves, aluminum-zinc alloy cast connecting rods with oil reservoir indentation and lubricating hole; tapered roller bearings and copper plated piston

**2 Feature:** A single-piece, welded frame made of 1¼-inch square steel tubing completely surrounds the MHC. The chassis is made of 10-gauge steel. All metal parts are protected by an epoxy powder coat finish.

**Benefit:** The rugged frame or cage provides protection

**3 Feature:** Many fittings are JIC (Joint Industrial Council) and all are made of brass and steel.

**Benefit:** Steel fittings are coated for rust protection. JIC fittings are easy to connect and disconnect and are rated for withstanding high pressures (see page 7).



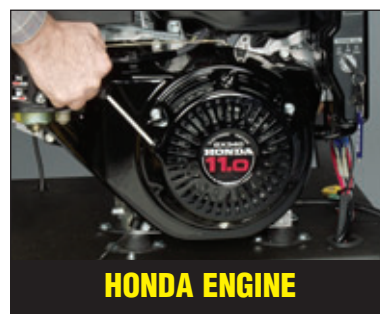
**VIBRATION ISOLATORS**

throughout the pressure washer and shaking loose nuts, bolts, electrical wiring and burner components, thus minimizing maintenance, especially on the burner assembly and extending the life of the entire pressure washer.



**BECKETT BURNER**

pressure washers. All Beckett burners come with a CleanCut oil pump, which uses solenoid valves (rather than the conventional diaphragm and cone valves) to open and close instantly when electrical current to the pump turns on and off. This fraction-of-a-second timing difference renders huge benefits in a cleaner, more fuel efficient burn and less maintenance. Furthermore, a new "drop out" feature of the solid-state ignitor turns off the ignition system once the burner is operational so it requires less power from the engine and alternator. The Beckett Burner also uses dual rings and markers for "dialing in" the amount of air flow to the burner, another key element for a clean, fuel-efficient burn.



**HONDA ENGINE**

recoil (pull) start. Three models feature electric start in addition to the recoil (pull) start.

**Benefit:** Arguably the most reliable engines in the market, Honda & Subaru-Robin engines have a legacy of dependability and durability. The OHV design has proven to be more fuel efficient than side-valve engines.

The MHC also features an E-Z Start Valve that automatically purges residual pressure in the high-pressure pump making it easier to start.

**4 Feature:** The engine and pump, the two components that create the most vibration in a pressure washer, rest on four vibration isolators attached to the steel chassis.

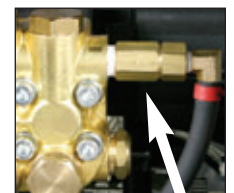
**Benefit:** The vibration isolators provide fatigue resistance by preventing the engine-pump vibration from spreading

**5 Feature:** Water is heated in the MHC by a Beckett Burner featuring advanced technology using the CleanCut fuel pump.

**Benefit:** The R.W. Beckett Corp. has parlayed more than a half century of experience in home heating to a high-efficiency burner assembly for

**6 Feature:** Heavy duty Honda and Subaru-Robin engines feature:

Proven overhead valve (OHV) design, electronic ignition and a high output charging system. Both Honda and Subaru engines are backed by a two-year warranty. Engines range from 7 to 13 HP and come with



**E-Z Start Valve releases pressure from the pump for easier starting**



### HEAVY DUTY WHEELS

that are set screw tightened. The pneumatic tires absorb vibration and are easier to maneuver in all terrain. Having an inner tube means less likely to go flat and easier repair of flats.

**7 Feature:** 13" tubed pneumatic tires are mounted on wheels, axles and retainers made of plated steel.

**Benefit:** Some brands cut costs with plastic wheels and stubborn push-on wheel caps. The MHC wheels are attached with heavy-duty axle collars



### HEATING COIL AND WRAP

80 pipe is the most rugged of the pressure washer hot water coils. Cold rolled pipe has fewer leaks than coils that are heated when formed. Insulation retains the heat for energy efficiency and the aluminized steel wrap withstands heat and corrosion better than regular steel. Aluminized steel is used in automobile mufflers, furnaces, ovens and gas-fired heaters where there is a high incidence of heat and moisture. Studies show that aluminized steel oxidizes at only 5% of the rate of carbon steel. Aluminized steel also reflects about 80% of incident radiant heat up to 900 degrees F. This makes it ideal for the pressure washer heating coil application. Less fuel is required to maintain the operating temperature and it heats up faster. The outer wrap provides an extra layer of protection and heat efficiency while the top wrap is easy to remove for convenience in servicing or replacing the coil.

**8 Feature:** The Landa Duracoil, used to heat the water, is made of 1/2-inch, cold-rolled, Schedule 80 pipe and is backed by a 5-year limited warranty. It is surrounded by an aluminized steel wrap. A painted steel or stainless steel outer wrap offers additional protection.

**Benefit:** Half-inch, Schedule



### QUALITY CONFIRMED

manifold. The MHC frame and chassis are backed by Landa's 5-year parts warranty (1 year labor). Also, the MHC meets the performance standards established by the Cleaning Equipment Trade Association (CETA).

**Benefit:** Customers have the assurance they are making a safe investment in quality and can operate the equipment with confidence that it will hold up for years with minimal maintenance.

**9 Feature:** The MHC is manufactured in a factory that has been ISO-9001:2000 certified, an internationally recognized certification for quality in manufacturing. There is a limited 7-year warranty on the oil end of the high-pressure pump and a lifetime warranty on the brass

## Why the MHC is.... Safe to Use

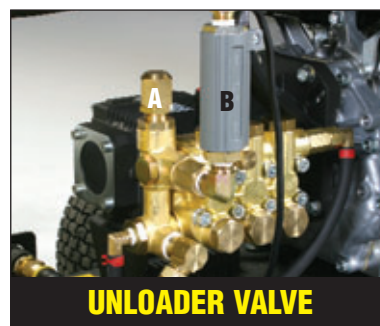


### SAFETY CERTIFIED

**1 Feature:** The MHC has been certified by ETL laboratories to the rigid UL-1776 safety standards for pressure washers.

**Benefit:** Customers have the assurance they are investing in equipment that will not only last but will be safe for them and others to use, minimizing

their personal and liability risk. Remember, federal OSHA regulations require safety certified electrical equipment or one faces fines of up to \$10,000. UL-1776 safety standards include: thermal overload protection on motors to prevent risk of fire, all electrical components must undergo a test for current leakage to avoid electrical shortages, wands must be at least 36 inches in length (42 inches when pressure is in excess of 3200 PSI) to prevent operators from accidentally spraying themselves, no quick coupler between the gun and wand to prevent attaching a nozzle directly into the gun, a trigger gun for quick-release control by the operator, a hose guard of at least 24 inches to protect the operator against a possible hose burst, high-limit switch to automatically shut down the burner on hot water models should the water overheat, and a rupture disk to protect against excessive build up of pressure in the system.



### UNLOADER VALVE

**2 Feature:** The unloader is an adjustable, pressure trapping valve (A) attached to the pump. It is the mechanism that automatically bypasses the pump output when the operator releases the trigger on the gun and stops the flow of water.

When the flow is stopped, the unloader senses the build up of pressure and automatically reroutes the water to the inlet side of the pump thereby reducing the load on the engine and pump. This recycling of the water continues until the trigger is pulled again, signaling the unloader to send the water through the hose again and renew the flow from the spigot or water supply.

Hot water models, like the MHC, also have a flow-activated shut-off switch—called the Flow Switch (B)—which quickly shuts off the fuel to the burner when the operator releases the trigger and stops spraying. The Flow Switch is much more responsive than the conventional Vac-On Switch.

**Benefit:** The unloader makes it possible to enjoy the convenience and safety of a trigger gun while cleaning with a pressure washer. The flow-activated shut-off switch prevents the burner from overheating the water when the water flow has been stopped during the washing operation, thus protecting the operator and pressure washer from the consequences of a build up of both pressure and heat.



**RUPTURE DISK**

**3 Feature:** The rupture disk is located on the pipe coming out of the heating coil (discharge side) and is connected to a pressure relief hose.

**Benefit:** When water is heated, pressure is created. The rupture disk senses when the pressure in the system has exceeded acceptable levels

and immediately the rupture disk gives way allowing pressure to escape through the relief hose. This protects the operator from a potential hot water rupture in the plumbing or hose. The rupture disk has been proven to be the most effective protection against pressure build up, more reliable than pop off and pressure relief valves in the hot water environment. Pop off and pressure relief valves are designed for overpressurization of cold water only.

Should the rupture disk ever need to release a build up in pressure, the super heated hot water is vented through an insulated tube that carries the water and steam to the underside of the MHC and away from the operator.



**THERMAL PUMP PROTECTOR**

**4 Feature:** The thermal pump protector is attached to the inlet side of the high-pressure pump and monitors the water temperature as it passes through the pump. It opens a valve to dump hot water if the water temperature rises above a safe level.

**Benefit:** This protects the pump from being damaged by hot water. The water temperature can build up when the water constantly recycles out and back into the pump. This occurs when the operator leaves the pressure washer running for a long period of time without opening the trigger gun to release the water.



**WHEEL BRAKE**

**5 Feature:** A hand-operated wheel brake is located over one of the tires.

**Benefit:** The manual brake offers one more protective device to keep the pressure washer from "walking" while in operation due to vibration or from rolling down an incline unattended.



**BALANCED WEIGHT**

**6 Feature:** Four 13-inch pneumatic tires are positioned to balance the weight of the machine.

**Benefit:** The weight is evenly balanced so the pressure washer is less inclined to tip yet still easy to maneuver over any terrain. The tubed, flat-resistant, pneumatic tires also

absorb vibration providing additional stability.



**WIDE WHEEL BASE**

**7 Feature:** The MHC wheel base is only 29 inches—two inches less than the width of its MVC predecessor.

**Benefit:** At 29 inches, the MHC is narrow enough to fit through most doorways. However, the wheel base and the positioning of the tires outside

the frame delivers sufficient stability to the entire pressure washer to reduce the risk of overturning while transporting or after affixing a hose reel.



**HOSE GUARD PROTECTION**

**8 Feature:** Tuff-Skin hoses are characterized by two, durable PVC sleeves on each end of the hose. On the end that attaches to the gun and wand, there is a 24-inch sleeve or hose guard and an 8-inch sleeve on the end that attaches to the pressure washer.

**Benefit:** Both hose guards provide operator protection against a high-pressure burst. The 24-inch sleeve meets the UL-1776 safety standard for owner liability protection. **NOTE:** In order to preserve the pressure washer's UL-1776 certification any replacement hose must also meet these specifications.



**HORIZONTAL COIL**

**9 Feature:** Lay down horizontal coil design with Landa signature "duck bill" top wrap.

**Benefit:** The MHC's unique frame and coil bottom wrap cradles the heating coil, while the coil top wrap provides superb coil protection, as well as providing additional protection for

the end mounted diesel burner. Other manufacturers mount the coil vertical, which increases the risk of the coil shaking loose and making the burner more difficult to get to for repairs.



**TRI-LINGUAL LABELS**

**10 Feature:** All operating instructions and warning labels are in English, French and Spanish. The labels are printed on Lexan®.

**Benefit:** As mandated by UL-1776, this feature provides the owner with some peace of mind, if not liability protection,

knowing that most any operator has instructions and warnings easily available prior to using. The Lexan® labels have an additional protective coating capable of withstanding all weather conditions, including UV or sunlight.

## How the MHC is.... *Easy to Service*



**OPEN ACCESS**

wheel assemblies. It's a service technician's dream. All other components are mounted within the open cage for easy monitoring and service access. The MHC is not only designed for performance, but for serviceability as well.



**ACCESSIBLE BATTERY**

of the burner prevents the ignitor from draining the battery. Also, the tachometer on the control panel assists the operator in maintaining the proper engine speed of 3400 RPM so the battery is constantly being recharged.



**CONTROL PANEL**

The flashing message of "SERVICE" after each 25 hours of operation to indicate when regular maintenance should be performed. The tachometer helps the operator determine if the engine is running at the proper RPM and ensuring a clean, fuel-efficient burn.

**1 Feature:** Open chassis design allows easy access to engine and pump assembly components.

**Benefit:** From oil changes to complete services, the MHC's open design makes servicing easy. All components can easily be removed without the need to remove parts of the frame or

**2 Feature:** The 12V battery is located in a hardened marine-duty plastic container and placed on the MHC platform.

**Benefit:** Great care has been taken to insure that the battery has a long life and is easily accessed for servicing. For instance, a "drop out" feature

**3 Feature:** The control panel is mounted high on the frame and features an adjustable thermostat, tachometer, hour meter, burner reset switch and on-off burner switch with monitor light.

**Benefit:** Electrical controls are located in a rain-tight box mounted on the side for quick and ready access by the operator. The adjustable thermostat allows for altering the water temperature to match the user's application. The digital display, or readout, serves as an hour meter, engine RPM meter (tachometer) and service meter. The display signals with the

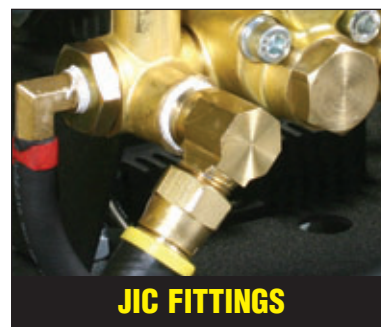


**BURNER ACCESS**

any service difficult and frustrating. The MHC's horizontal coil allows mounting the burner at waist level with access from all sides, making burner service fast & easy. From checking the electrodes, to adjusting the air settings it doesn't get any easier than the MHC.

**4 Feature:** Horizontal coil design allows for end mounted burner, and improved serviceability.

**Benefit:** Repairing or replacing a burner can be a service technician's nightmare. Most manufacturers mount the burner under the coil and frame, making



**JIC FITTINGS**

**5 Feature:** JIC (Joint Industrial Council) fittings are used for coupling major components, such as the pump and unloader. JIC fittings, with flared ends, are quickly removable and create a seal without having to use tape.

**Benefit:** JIC fittings are preferred because they are secure yet easy to connect and disconnect, especially in those tight working areas so common in pressure washers. The easier the coupling, the faster the job. Reduced service time means reduced labor costs. JIC fittings make bypassing an unloader a breeze.



**OIL DRAIN HOSE**

**6 Feature:** A hose with brass plug leads from the engine's crankcase to the edge of the platform.

**Benefit:** This conveniently located hose allows the oil to be drained from the engine without spilling onto the platform and dripping down onto components located underneath.

How the MHC is....

## Feature Rich



**HIGH-PRESSURE NOZZLES**

Four color-coded, hardened stainless steel, high-pressure nozzles are mounted on the control panel at the front of the pressure washer cabinet. They are attached to the end of the wand with a quick coupler. The colors designate the spray patterns created by each nozzle: Red=0°, Yellow=15°, Green=25° and White=40°.

**Benefit:** The hardened stainless steel means the nozzles will hold up well without rusting or disintegrating during months of regular operation. The nozzles are mounted on the front panel for easy access. They quick-couple to the end of the wand for convenience in switching nozzles while washing (however, DO NOT change nozzles while spraying). The colors allow the operator to quickly identify the flow patterns available. Having a variety of flow patterns—from the narrow, focused 0° stream to the broad 40° spray—gives the operator plenty of options to meet whatever cleaning task is at hand—from blasting concrete or metal to washing down wood or asphalt.



**VARIABLE PRESSURE WAND**

forced through the nozzle that is quick-coupled at the end of the wand. For low pressure, the water is diverted to the second pipe and gently sprays at low pressure. This reduces the flow volume in the main pipe thus reducing the pressure of the main water stream. A durable, plastic hood or nozzle covering is mounted at the end of the wand.

**Benefit:** Having adjustable spray at the point of the wand helps adjust the force to the job at hand. It also allows the operator to control the flow of detergent when a downstream detergent injector is attached. The wand handle is turned to create a low-pressure flow, which immediately begins suctioning detergent into the spray. Then, with the twist of the handle, clean water comes out again as a high-pressure spray. The wand length prevents an operator from spraying him/herself. The easy-grip handle is mounted at the right angle for hours of fatigue-free spraying. The plastic hood at the tip helps protect objects being cleaned.

**1 Feature:** Nozzles are what create the pressure or cleaning power of the pressure washer. The pump puts a large volume of water down the pipe quickly, but it's the tiny orifice of the nozzle that translates that flow volume into high pressure. Four color-coded, hardened stainless steel, high-pressure nozzles are

**2 Feature:** The variable pressure wand is 40 inches long and consists of two steel tubes or pipes, which are adjoined and insulated. An easy-grip handle is mounted in the middle of the wand that, when twisted, increases or decreases the pressure. For high pressure, all of the water stays in the main pipe and is



**ADJUSTABLE THERMOSTAT**

**3 Feature:** An adjustable thermostat is located on the control panel.

**Benefit:** The easily accessible thermostat, adjustable up to 200° F, allows the operator to match the temperature to the job and to prevent overheating.



**TUFF-SKIN HOSE**

**4 Feature:** Landa's Tuff-Skin hose is the toughest high pressure hose in the industry. When

tested to 6945/DIN20024, the Tuff-Skin has proven to be seven times more abrasion resistant than standard pressure washer hoses yet is 20% more flexible. It has a unique braid design and has been engineered for a greater continuous temperature range—from 40° to 275°F / 310°F intermittent—and for handling pressures of up to 4000 PSI. The Tuff-Skin hose is used on all MHC models and has maximum strength Class A ORS (Oil Resistance Standard) cover and features a bite-the-wire coupler that grips the hose better than any other design. The MHC hose is 50 feet in length.

**Benefit:** Because of its abrasion resistance as well as flexibility, the Tuff-Skin holds up better than any other hose in outdoor pressure washer environments where hoses typically get whipped, twisted, yanked and even run over. The maximum strength Class A cover rating means it will hold up to oils, grease and fats as compared to the more commonly used Class B. The 50-ft. hose gives the operator plenty of slack to clean freely without feeling encumbered by the pressure washer.



**DETERGENT INJECTOR**

**5 Feature:** Detergent injector and hose attach easily to the pump allowing for control by means of the pressure wand for applying soap while cleaning.

**Benefit:** This heavy-duty injector is constructed with brass and stainless steel for strength and corrosion resistance. The industrial-duty

strainer is made with a nylon cage and stainless steel mesh strainer. The suction tube is made of thick-wall, see-through, clear vinyl tubing for years of constant usage. The injector automatically suctioned detergent from the jug at a 15:1 ratio when the operator reduces the pressure by twisting the handle on the variable pressure wand.



**SWIVEL CRIMP FITTING**

**6 Feature:** A swivel crimp fitting is located between the hose and the gun.

**Benefit:** The swivel makes it easy to connect the gun to the hose and makes coiling of the hose easier after use.



**WAND AND GUN HOLDERS**

**7 Feature:** A unique two-point wand holder includes a dual grip gun holder. ▼



**Benefit:** Keeping the wand and gun out of the way, especially when moving the pressure washer, is often quite a battle for the operator. This holder keeps the wand safely snug against the equipment and out of the way. The gun is held firmly in place by a new wrap-around holder featuring a top and bottom grip (photo above right).



**HOSE HANGER**

**8 Feature:** Two hooks are positioned at the back of the MHC.

**Benefit:** These hooks are conveniently located for keeping the high-pressure hose out of the way. A common expense for pressure washer users is the cost of replacing hoses damaged by vehicles running

over them—simply because they are left lying around. Hose holders (and hose reels) are valuable features on a pressure washer. The hanger can also hold a garden hose.



**FUEL TANK**

**9 Feature:** A color-coded, 10-gallon, polyethylene fuel tank (for diesel, kerosene or heating oil) is located on the underside of the MHC and features an elevated fuel line.

**Benefit:** The rust-free, extra-large fuel tank insures hours of uninterrupted operation. The

elevated fuel line prevents dirt and debris on the floor of the tank from plugging the line or being drawn into the burner.

## How the MHC is.... *Option Ready*



**CASTER WHEEL KIT**

**1 Option:** Castor wheel kit  
**Benefit:** The MHC castor wheel kit provides extra mobility. Whether moving the MVC around your facility, or moving it from job to job, the MHC swivel castors makes the job simple and easy.



**FLOAT TANK**

**2 Option:** Rust-free float tank with stainless steel inlet filter.  
**Benefit:** The MHC's float tank is elevated to provide a constant "flooded-suction" water supply to the pump. An elevated stainless steel strainer protects the pump by preventing dirt particles from being drawn into the pump. When there's a need for

applying detergent under high pressure, the MHC's float tank makes it simple. Simply set the application rate, and there is no need for further adjustment. Other manufacturers use complicated inlet injectors without float tanks, which require the user to constantly adjust the water and detergent flow rates.



**HOSE REEL KIT**

**3 Option:** Hose reel kit  
**Benefit:** Never wrestle with coiling up your high pressure hose again. Winding your hose is easy with the MHC's 360° pivot hose reel, which eliminates the tangling and hassle of coiling your hose, and provides easy access for the next job. For convenience, the hose reel

mounting bracket can be installed on any of the four corners of the MHC frame.



**LIFTING BRACKET**

**4 Option:** Lifting bracket.  
**Benefit:** Whether positioning the MHC for a job or transporting to a remote location, the MHC lifting bracket tackles the task. Made from structural tubing and steel plate, the MHC lifting bracket re-defines the "M" in mobility.



**TRAILER MOUNT KIT**

**5 Option Feature:** Trailer Mount kit.  
**Benefit:** Simply bolt the two trailer mount brackets to pre-drilled & tapped holes on the MHC frame, and set in place. Once in place, drill your holes through the MHC brackets into your trailer or van and bolt down.