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Introduction

Thank you for purchasing this McElroy product.

The QuickCamp™ System is a lighted, insulated and climate-controlled enclosure that allows operators to fuse pipe day or night under all weather conditions. The QuickCamp System includes the QuickCamp Shelter housing a 1236/900 or 824/630 fusion carriage and the MegaMc® PolyHorse® and MegaMc Rollers productivity tools.

Setting up the QuickCamp Shelter requires two people. The pipe can be guided through the QuickCamp Shelter from the MegaMc® PolyHorse® by one remote-control operator. The fusion carriage can be moved by up to 18" so that the pipe ends can be adjusted to fit into its jaws for accurate fusing within the QuickCamp Shelter. The QuickCamp System, can accommodate a fusion machine carriage, fusing pipe from 8" IPS to 36" OD. The QuickCamp Shelter can be sold separately.

FEATURES

Shelter folds into standard ISO Hi Cube, 20' cargo container for shipping

Folded shelter contains fusion machine carriage

Carriage can slide out of shelter for in-ditch use or fusing stub end fittings

Ample space for an office, break room or storage of extra gear

Electrical outlets to power personal equipment

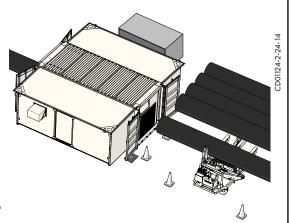
Hydraulic Power Unit powers fusion carriage with customer-furnished generator

One-size-fits-all pipe seals

Included heating and air-conditioning units fit into fold-out shelves.

Before operating this equipment, please read this manual thoroughly, and keep a copy with the equipment for future reference. This manual is to be considered part of your QuickCamp System.

TX04651-2-24-14



McElroy University

For more than 30 years, McElroy has been the only pipe fusion machine manufacturer to continuously offer advanced training. Course offerings are meant to enhance your efficiency, productivity and safety in the proper use of McElroy machines. McElroy University classes are structured so that the skills learned and the machines used in each class closely match the machines found on pipelining jobsites. We offer training at our facility or yours. Our uniquely qualified McElroy University course instructors offer years of industry experience.

Tuition for each course includes lunches, course materials and a certificate of completion. Online registration, as well as up-to-date course offerings and dates, is available at **www.mcelroy.com/university**

This manual is intended as a guide only and does not take the place of proper training by qualified instructors. The information in this manual is not all inclusive and can not encompass all possible situations that can be encountered during various operations.



TX04659-03-24-14



LIMITED WARRANTY

McElroy Manufacturing, Inc. (McElroy) warrants all products manufactured, sold and repaired by it to be free from defects in materials and workmanship, its obligation under this warranty being limited to repairing or replacing at its factory and new products, within 5 years after shipment, with the exception of purchased items (such as electronic devices, pumps, switches, etc.), in which case that manufacturer's warranty applies. Warranty applies when returned freight is prepaid and which, upon examination, shall disclose to have been defective. This warranty does not apply to any product or component which has been repaired or altered by anyone other than McElroy or has become damaged due to misuse, negligence or casualty, or has not been operated or maintained according to McElroy's printed instructions and warnings. This warranty is expressly in lieu of all other warranties expressed or implied. The remedies of the Buyer are the exclusive and sole remedies available and Buyer shall not be entitled to receive any incidental or consequential damages. Buyer waives the benefit of any rule that disclaimer of warranty shall be construed against McElroy and agrees that such disclaimers herein shall be construed liberally in favor of McElroy.

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Buyer agrees not to return goods for any reason except upon the written consent of McElroy obtained in advance of such return, which consent, if given, shall specify the terms and conditions and charges upon which any such return may be made. Materials returned to McElroy, for warranty work, repair, etc., must have a Return Material Authorization (RMA) number, and be so noted on the package at time of shipment. For assistance, inquiry shall be directed to:

McElroy Manufacturing, Inc.

P.O. Box 580550

833 North Fulton Street Tulsa, Oklahoma 74158-0550

PHONE: (918) 836-8611, FAX: (918) 831-9285.

EMAIL: fusion@McElroy.com

Note: Certain repairs, warranty work, and inquiries may be directed, at McElroy's discretion, to an authorized service center or distributor.

DISCLAIMER OF LIABILITY

McElroy accepts no responsibility of liability for fusion joints. Operation and maintenance of the product is the responsibility of others. We recommend qualified joining procedures be followed when using McElroy fusion equipment.

McElroy makes no other warranty of any kind whatever, express or implied; and all implied warranties of merchantability and fitness for a particular purpose which exceed the aforestated obligation are hereby disclaimed by McElroy.

PRODUCT IMPROVEMENT

McElroy reserves the right to make any changes in or improvements on its products without incurring any liability or obligation to update or change previously sold machines and/or the accessories thereto.

INFORMATION DISCLOSED

No information of knowledge heretofore or hereafter disclosed to McElroy in the performance of or in connection with the terms hereof, shall be deemed to be confidential or proprietary, unless otherwise expressly agreed to in writing by McElroy and any such information or knowledge shall be free from restrictions, other than a claim for patent infringement, is part of the consideration hereof.

PROPRIETARY RIGHTS

All proprietary rights pertaining to the equipment or the components of the equipment to be delivered by McElroy hereunder, and all patent rights therein, arising prior to, or in the course of, or as a result of the design or fabrication of the said product, are exclusively the property of McElroy.

LAW APPLICABLE

All sales shall be governed by the Uniform Commercial Code of Oklahoma, U.S.A.

Register your product online to activate your warranty: www.McElroy.com/fusion

(Copy information listed on the machine nameplate here for your records).

Model No	
Serial No	
Date Received	
Distributor	

Table of Contents

Equipment Safety
Safety Alerts 1-1 Read and Understand 1-1 General Safety 1-2 Wear Safety Equipment 1-2 Lowering or Raising Floor 1-2 Container Impact 1-3 Restrain Pipe 1-3 Level and Stable Ground 1-3 Feed Pipe into Outlet End 1-4 Lifting Safety 1-4 Pipe Handling Safety 1-5 Electrical Safety 1-5 Units with Hydraulics 1-6 Crush Points 1-6 Feeding Pipe from MegaMc® PolyHorse® 1-6
Heavy Lifting
Overview
QuickCamp™ Shelter. 2-1 Pipe Seals 2-1 Mechanical Room 2-2 Carriage Movement. 2-2 Fusion Carriage 2-2 MegaMc® PolyHorse® 2-3 QuickCamp™ System Containers 2-3 QuickCamp™ Control Box 2-4 Pipe Stands 2-4
Setup
Setup QuickCamp™ System 3-1 Deploy Shelter 3-5 Generator and Power 3-9 Unpack Shelter 3-1 Function Testing 3-1 Load Pipe on MegaMc® PolyHorse® 3-1
Operation
Read Before Operating
Special Operation - Cold Weather
Cold Weather Operation
Special Operation - Install/Remove Carriage
Installing/Removing the Carriage from the Shelter
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Table of Contents

Maintenance	
Preventative Maintenance	
Washing the Machine	
Check Hydraulic Fluid	
Change Hydraulic Filter and Fluid	7-2
Lubrication	7-2
Inspect Hydraulic Hoses	7-3
Pipe Seals	
Cable Reels	7-4
Fasteners Must Be Tight	7-4
QuickCamp System Checklist	7-5
Hydraulic Fluids	
Hydraulic Fluids	8-1
Specifications	
QuickCamp System Specifications	9-1

Safety Alerts

This hazard alert sign appears in this manual. When you see this sign, carefully read what it says. YOUR SAFETY IS AT STAKE.

You will see the hazard alert sign with these words: DANGER, WARNING, and CAUTION.

▲ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

In this manual you should look for two other words: **NOTICE** and **IMPORTANT**.

NOTICE: can keep you from doing something that might damage the machine or someone's property. It may also be used to alert against unsafe practices.

IMPORTANT: can help you do a better job or make your job easier in some way.



WR00051-11-30-92







TX00030-12-1-92

Read and Understand

Do not operate this equipment until you have carefully read, and understand all the sections of this manual, and all other equipment manuals that will be used with it.

Your safety and the safety of others depends upon care and judgment in the operation of this equipment.

Follow all applicable federal, state, local, and industry specific regulations.

McElroy Manufacturing, Inc. cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the machine are therefore not all inclusive. You must satisfy yourself that a procedure, tool, work method, or operating technique is safe for you and others. You should also ensure that the machine will not be damaged or made unsafe by the method of operation or maintenance you choose.



WR00052-12-1-92

TX02946-4-15-09

General Safety

Safety is important. Report anything unusual that you notice during set up or operation.

LISTEN for thumps, bumps, rattles, squeals, air leaks, or unusual sounds.

SMELL odors like burning insulation, hot metal, burning rubber, hot oil, or natural gas.

FEEL any changes in the way the equipment operates.

SEE problems with wiring and cables, hydraulic connections, or other equipment.

REPORT anything you see, feel, smell, or hear that is different from what you expect, or that you think may be unsafe.

TX00114-4-22-93

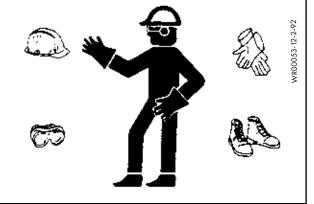


Wear Safety Equipment

Wear a hard hat, safety shoes, safety glasses, and other applicable personal protective equipment.

Remove jewelry and rings, and do not wear loose fitting clothing or long hair that could catch on controls or moving machinery.

Do not wear gloves when operating rotating equipment.

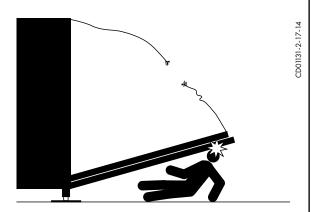


TX04282-5-27-11

Lowering or Raising Floor



Stand clear of the floor panel while it is being raised or lowered. If the support cable fails the floor panel will fall causing serious injury or death.

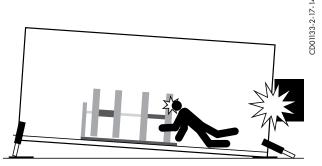


TX04613-2-18-14

Container Impact

▲WARNING

Do not impact the shelter. Severe impact to the shelter could cause the shelter to fall from the support legs to the ground. The shelter could move and could cause serious injury or death.

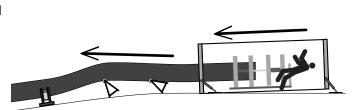


TX04614-2-18-14

Restrain Pipe

▲WARNING

The shelter is not designed to guide or restrain pipe. Take measures to guide or restrain the pipe. Pipe not properly restrained could pull the shelter from its support legs causing the shelter to fall to the ground. The shelter could move and could cause serious injury or death.

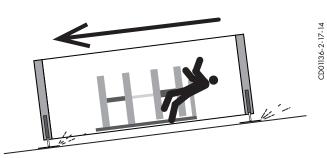


TX04615-2-18-14

Level and Stable Ground

▲WARNING

Place the shelter on as level and stable ground as possible. Operating on unlevel and unstable ground could cause the shelter to slide or sink. Use the support leg pads to provide a firm base for the legs to rest upon. The shelter could move and could cause serious injury or death.





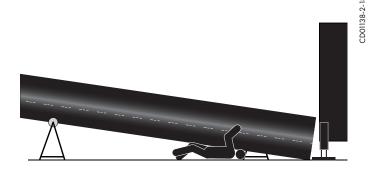
TX04616-2-18-14

Feed Pipe into Outlet End

AWARNING

Stand clear of the pipe when being fed into the outlet end of the shelter. Improperly supported pipe could move uncontrolled or fall from the pipe stands. Pipe that is uncontrolled could cause serious injury or death.

NOTICE: Ensure the pipe is inserted in the center of the pipe seal. Avoid hitting the shelter with pipe. Hitting the shelter may cause damage to the shelter.



TX04617-2-18-14

Lifting Safety

Follow all applicable federal, state, local, and industry specific regulations when lifting.

AWARNING

Safety warnings:

- Read and understand this operator's manual before using the lifting device.
- 2. Do not exceed rated load or lift loads greater than the rated load rating of the lifting device.
- 3. Do not operate a damaged or malfunctioning lifting device or one missing parts.
- 4. Do not lift persons.
- 5. Do not lift a suspended load over persons.
- 6. Do not leave a suspended load unattended.
- 7. Stay clear of the suspended load.
- 8. Lift loads only as high as necessary.
- 9. Do not alter or modify the lifting device.
- 10. Employ generally accepted safe lifting practices.
- 11. Do not shock or impact load the lifting device.
- 12. Components are heavy, use proper lifting equipment on all components.
- 13. Do not remove or obscure warning labels.





'R00014-3-8-9

TX04288-2-18-14

Pipe Handling Safety

▲WARNING

Do not position yourself under supported or raised pipe. Pipe is heavy and could result in serious injury or death

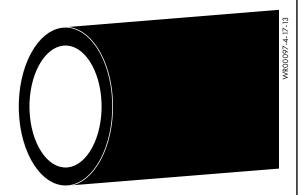
▲WARNING

Pipe that is bent can store a great amount of energy. Do not bend and force the pipe into the machine. A bent pipe with stored energy could cause serious injury or death when that energy is released.

It is recommended that the pipe is always be held securely by either being clamped securely in the fusion machine jaws or attached to the lifting device.

Keep persons that are not involved in handling pipe away from handling operations. When the pipe and handling equipment are in motion, all persons involved in handling pipe should be able to see all other persons at all times. If any handling person is not in sight, immediately stop moving equipment and pipe and locate that person. Do not continue until all persons are accounted for and in sight.

Never push, roll, dump or drop pipe lengths, bundles or coils off the truck, off handling equipment or into a trench. Always use appropriate equipment to lift, move and lower the pipe.



TX04649-2-19-14

Electrical Safety



Always ensure equipment is properly grounded. It is important to remember that you are working in a wet environment with electrical devices. Proper ground connections help to minimize the chances of an electric shock.

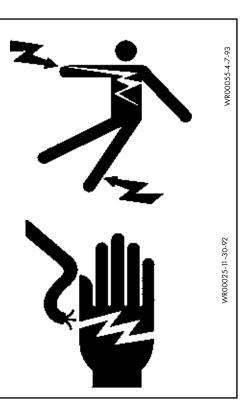
Frequently inspect electrical cords and unit for damage. Have damaged components replaced and service performed by a qualified electrician.

NOTICE: Always connect units to the proper power source as listed on the unit, or in the owner's manual.

NOTICE: Disconnect the machine from the power source before attempting any maintenance or adjustment.

▲WARNING

Disconnect the machine from the power source before attempting to service the control panel. Failure to disconnect the power could result in serious injury or death due to electric shock. Refer service to a qualified technician.



TX03003-3-30-11

Units With Hydraulics

For hydraulically operated equipment, it is important to remember that a sudden hydraulic oil leak can cause serious injury, or even be fatal if the pressure is high enough.

▲WARNING

Escaping fluid under pressure can penetrate the skin causing serious injury. Keep hands and body away from pinholes which eject fluid under pressure. Use a piece of cardboard or paper to search for leaks. If any fluid is injected into the skin, it must be immediately removed by a doctor familiar with this type of injury.

NOTICE: Wear safety glasses, and keep face clear of area when bleeding air from hydraulic system to avoid spraying oil into eyes.

TX03077-2-16-10



Crush Points

▲WARNING

Hydraulically operated equipment is operated under pressure. Anything caught in the machine will be crushed. Keep fingers, feet, arms, legs, and head out of the machine during operation. Lower the booms, remove pipe, and turn off HPU before performing any maintenance or inspection.



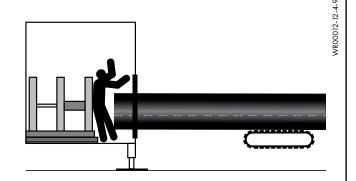
TX04289-5-27-11

Feeding Pipe from MegaMc PolyHorse

A CAUTION

Do not stand between the pipe seal and the fusion carriage. Pipe inserted from the MegaMc PolyHorse can pin the operator and could cause injury. Stand clear of the pipe seal when pipe is being moved into the shelter.

NOTICE: Ensure the pipe is inserted in the center of the pipe seal. Avoid hitting the shelter with pipe. Hitting the shelter may cause damage to the shelter.



TX04618-2-18-14

Heavy Lifting



Components of the QuickCamp may be heavy. Using one person to lift may result in injury. Two people are required to lift components.

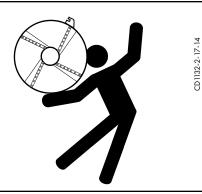


TX04619-2-18-14

Carriage Components Rotate Out

▲ CAUTION

Do not stand behind the fusion carriage. The heater and facer rotate away from the carriage and could cause minor to moderate injury.

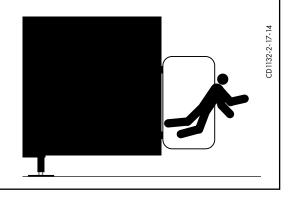


TX04620-2-18-14

Raised Floor

▲ CAUTION

The floor of the shelter is raised off the ground. Use steps when entering and exiting the shelter. Failure to use the steps could cause the operator to fall from the shelter causing injury.

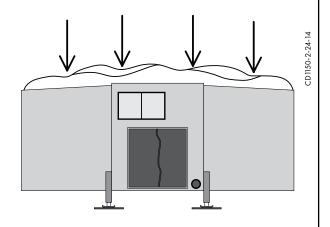


TX04621-2-18-14

Shelter Roof Weight

A CAUTION

Excessive snow on the top of the shelter could cause the shelter to buckle causing minor to moderate injury. Clear the snow from the top of the shelter as needed.

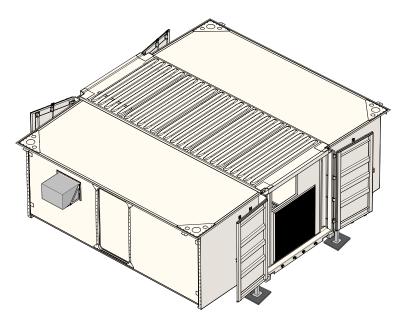


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Overview

QuickCamp Shelter

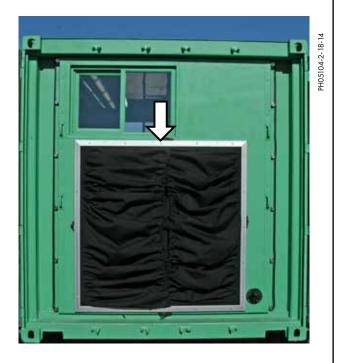
The QuickCamp shelter is a 20 foot shipping container outfitted to fold out into a climate controlled work environment. The shelter has electrical outlets, lighting, and heating/air conditioning units. The shelter can hold an 824 or 1236 fusion carriage inside. There are pipe seals at both ends of the shelter. The shelter is outfitted with hydraulic power to operate the fusion carriage.



TX04622-2-18-14

Pipe Seals

Two pipe seals are located on both ends of the shelter. The pipe seals wrap around the pipe as pipe is being moved into the shelter. The seals keep the outside elements out of the shelter during the fusion process.



TX04623-2-18-14

Mechanical Room

The Mechanical Room is a small area on the outlet end of the shelter. The room contains the hydraulic tank and pump motor. The lift poles for deploying the shelter are stored in this room. Two cable reels for lowering the floor of the shelter are on both sides of the room.

The vee weldment in the middle of the room protects the components in the room from damage from the pipe.

A toolbox is provided to store any loose items.

The electrical breaker box is mounted on the interior wall of the mechanical room. The breaker box contains all the electrical circuit breakers for the shelter. The electrical box has the cable that supplies the electrical current from the generator to the shelter.

MECHANICAL ROOM



H05159-2-18-14

PH05158-2-18-14



TX04624-2-18-14

Carriage Movement

Near the floor of the shelter are controls for the movement of the carriage skid. The valve lever moves the carriage back and forth between the outlet and inlet ends of the shelter (18" of travel). The carriage movement speed knob adjusts the speed in which the carriage moves when the valve lever is actuated.

TX04625-2-18-14

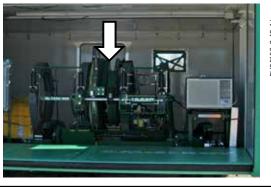


Fusion Carriage

A 824/630 or 1236/900 fusion carriage can be loaded into the shelter. The fusion carriage must be outfitted with the included carriage skid sliders to allow the carriage to move with the use of the carriage movement controls. The fusion carriage skid is connected to the carriage movement hydraulic cylinders on the outlet end of the shelter.

The heater and facer handles must be removed before using the carriage in the shelter to prevent impact to the ceiling. The handles can be stored in the toolbox.

TX04626-2-18-14



PH05153-2-18-14

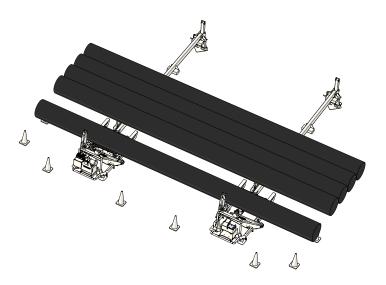
Overview

MegaMc® PolyHorse®

The MegaMc® PolyHorse® is a pipe-handling system designed to boost productivity on 20" to 48" IPS (500mm to 1,200mm) polyethylene pipe jobsites. The PolyHorse has a weight capacity of 10,500 lbs. per stick and 70,000 lbs. total for the racks.

The productivity tool consists of a series of pipe racks and powered pipe stands that hold enough pipe for a day's worth of fusion work. With the pipe stored in a single location and ready for use, the MegaMc PolyHorse allows heavy machinery to work in other places on the jobsite. A single operator can dispense pipe onto the stands, maneuver the pipe into alignment, and insert pipe into the fusion machine with the use of a remote control.

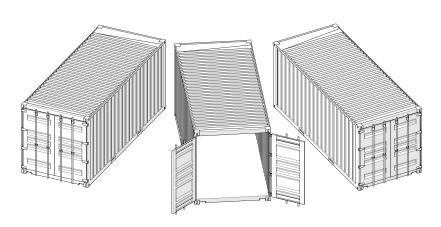
The components of the MegaMc PolyHorse are stored in the 3 QuickCamp System shipping containers.



TX04627-2-18-14

QuickCamp System Containers

There are 3 20 foot shipping containers which contain all of the additional components to set up the job site. The containers store the MegaMc PolyHorse, 2 TracStar® 900 pipe stands, and 30 MegaMc rollers. There is 10 feet (434mm) of room in one of the containers allocated for a generator to be stored.

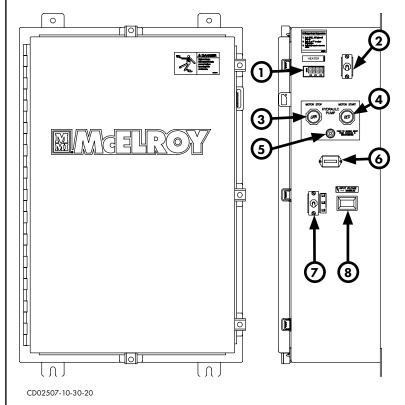


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Overview

QuickCamp™ Control Box



- **1. Temperature Adjustment:** Digital controller used to set heater temperature.
- 2. Heater On/Off: Turns power on and off to heater.
- **3. Stop Hydraulic Pump:** Shuts off power to the hydraulic pump.
- **4. Start Hydraulic Pump:** Turns power on to the hydraulic pump.
- 5. Start Carriage Disconnect: Press this button, then the Motor Start Hydraulic Pump button to turn power on to the hydraulic pump when carriage is disconnected. (Used for Series 2 carriages only)
- **6. Hour Meter:** Registers total hours hydraulic pump has been used.
- **7. Volt Meter Selector Switch:** Allows for selecting each incoming phase of a 3-phase electrical system.
- **8. Volt Meter:** Displays incoming voltage from the power source.

TX05414-10-30-20

Pipe Stands

There are two TracStar 900 pipe stands included with the QuickCamp System. These pipe stands are used with the pipe as it exits the shelter on the outlet end.

Included with the QuickCamp package are 30 MegaMc rollers. The MegaMc rollers reduce friction while pulling pipe to prevent damage to the pipe.



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TX04629-2-18-14

Setup QuickCamp System

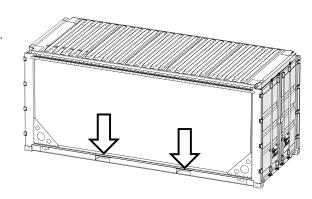
There are several factors in determining a setup location and setting up the QuickCamp System.

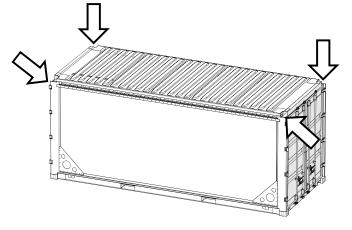
- 1) Terrain of job site (flat, level, and firm ground)
- 2) Direction pipeline is being pulled
- 3) Obstacles on job site (roads, trees, etc.)
- 4) Accessibility to load racks of the MegaMc PolyHorse.

Setup the MegaMc PolyHorse according to its operator's manual.

IMPORTANT: Follow the recommendation of the length of the pipe minus 11 feet when setting up the MegaMc PolyHorse. This length is measured from the end of the shelter to the center of the rollers on the roller pipe stand.

The shelter can be lifted by using a forklift and lifting with the fork pockets. It can also be overhead lifted using the ISO corner blocks. No lifting device is provided so if lifted from overhead you will need to provide your own device.





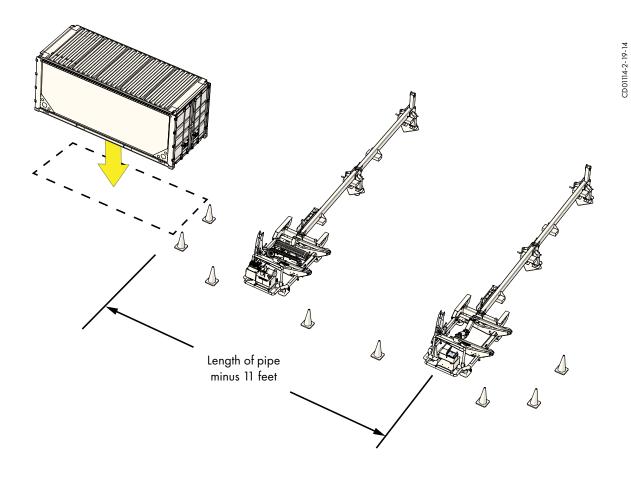
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Setup QuickCamp System (continued)

Move the shelter onto the job site using lifting equipment. Align the shelter lengthwise in the direction of the pipeline. The end of the shelter marked "Mechanical Room" will be the outlet end of the shelter. The opposite end of the shelter is the inlet end and will align with the MegaMc PolyHorse.

For fusion using the MegaMc PolyHorse, the distance between the end of the shelter and the center of the rollers on the MegaMc PolyHorse roller pipe stand is the length of the pipe minus 11 feet.

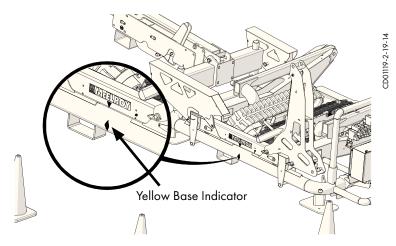


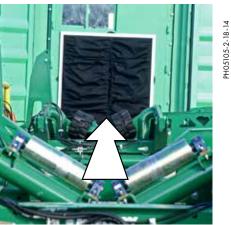
Setup QuickCamp System (continued)

The alignment with the MegaMc PolyHorse will need to be defined before lowering the shelter and placing it on its support legs. Lower the shelter close to the ground and open the doors on the inlet end of the shelter. Using the pipe seal inside as a guide, align the middle of the pipe seal with yellow indicator on the base of the tracked pipe stand.

IMPORTANT: The vee rollers of the pipe stand may not be aligned with the base indicator. Do not use the vee rollers to align with the shelter. Use the yellow base indicator to align the shelter.







When the correct position and alignment is established, lift the shelter approximately 2 feet from the ground. Attach the support legs to the four corners of the shelter. Each location is labeled with a letter. Match the letter on the legs with the location letter. Insert the bolt near the bottom of the leg into the hole at the shelter below the correct letter. Insert the pin near the jack handle into the hole on the shelter. Tighten the nut to secure the leg to the shelter. Use the crank handle to lower the leg.





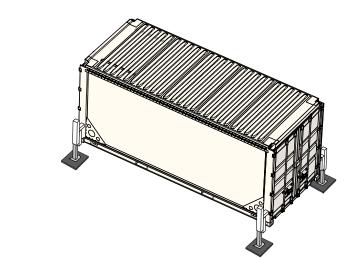
PH05160-2-18-

Setup QuickCamp System (continued)

Adjust all the legs to the same height and place the 4 support leg pads on the ground under where the leg will land. The support leg pads are located in the "Mechanical Room".

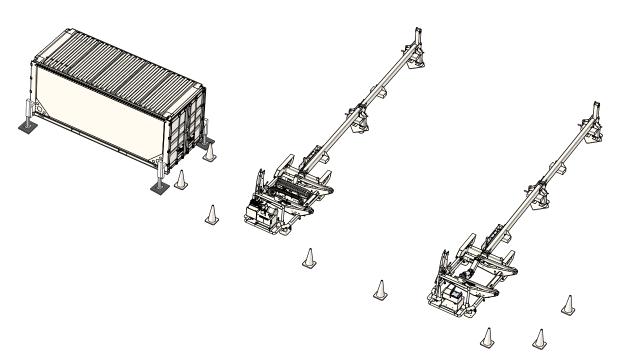
Lower the shelter to the ground making sure the legs land centered on the pads and the top brace of the leg is in contact with the shelter.





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The shelter is ready to be deployed. Pipe will need to be loaded on the MegaMc PolyHorse after the shelter is deployed due to the interference of the pipe with the inlet doors of the shelter.



TX04630-2-18-14

Deploy Shelter

The shelter must be made level before unfolding the walls and floor of the shelter. The support legs need to be adjusted until all of the alignment indicators show the two arrows pointing at each other. This indicates that the shelter has been leveled properly. There are also bubble levels around the shelter to assist in leveling the shelter.

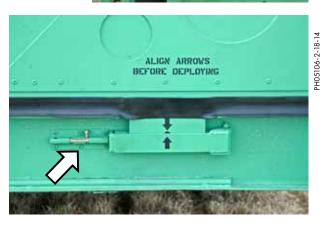


When the shelter is level, open the doors on both ends of the shelter. Retrieve a ceiling lift pole from the mechanical room.





Unlatch both latches securing the roof panel.



Deploy Shelter (continued)

Raise one corner of the roof panel using the ceiling lift pole.

The lift pole is inserted into the hole located where the alignment arrow is on the roof panel.



Unstrap the wall on the side with the corner being lifted.

Rotate the wall out until it is perpendicular to the roof panel. Lower the roof panel onto the wall ensuring the wall is resting against the edge along the roof panel.



Unstrap the second wall and lift the second panel and rotate the wall out until it is perpendicular to the roof panel. Lower the roof panel onto the wall ensuring the wall is resting against the edge along the roof panel.



Unclip the safety strap from the floor panel and secure it to the storage hook on the ceiling.



PH05112-2-18-14

Deploy Shelter (continued)

▲WARNING

Stand clear of the floor panel while it is being raised or lowered. If the support cable fails the floor panel will fall causing serious injury or death.

Use the crank handle on the cable reel to lower the floor panel down to the holes on the wall panels. The floor panel has pins that fit into the holes near the end of the wall panels.

IMPORTANT: Turn the crank to raise or lower. There is no release mechanism.

ACAUTION

Pinch point. Hold wall on the side to guide the pin into hole. The two surfaces can pinch and could cause minor injury.





Disconnect the support cable and wind up the cable until it is no longer in the way.

Two people should step inside the shelter and take position in the middle where the exterior wall can be lifted. Lift the wall up toward the ceiling.





Deploy Shelter (continued)

Use one hand to lift up on the ceiling panel and with the other hand guide the exterior wall past the aluminum tube on the ceiling panel. Lower the ceiling panel.



To clamp the ceiling panel to the exterior wall, insert the bolt of the clamp into the hole of the aluminum tube. Center the bolt in the channel between the two holes. Pull the handle of the clamp down to tighten. Ensure the handle rotates down fully to ensure the clamp is locked.

Repeat the procedure until all of the clamps are tightened.



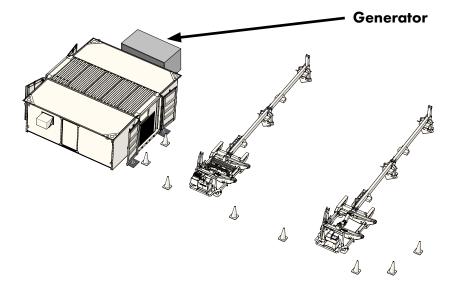
PH05119-2-18-14

Repeat the Deploy Shelter procedure to deploy the opposite side of the shelter.

TX04631-2-18-14

Generator and Power

Position the generator behind the shelter on the same side as the MegaMc PolyHorse pipe racks.



NOTICE: Connections should only be made by a qualified technician.

Ensure the generator power is off. Attach the cable pigtails to the generator. Ensure the correct voltage and frequency is being used.

Unwind the power cable from the mechanical room and from the MegaMc PolyHorse.

Connect the cables to the pigtails.

Start the generator. Check the control panel in the shelter for the proper voltage.

Before starting this machine make sure that the carriage directional control is centered. The heater switch should be in OFF position. The clamp valves should match the current position of the clamp cylinders, the jaw pivot valves should match the current position of the jaws. The facer valve should be in the off position. This will prevent any unwanted movement upon starting the HPU.



Unwanted movement of the machine could result in serious injury or damage to machine. Unwanted movement of the machine may take place if valves do not match machine state when the machine power is turned on.

Start the HPU to ensure proper phasing. The reverse phase relay can be checked inside the shelter control box.

The reverse phase relay ensures correct rotation of the pump motor so damage to the hydraulic system does not occur.

If unit fails to start, check to see if the light on the reverse phase relay is on. If not, disconnect the power source and switch any two incoming power leads and try again. If the unit still doesn't start and the light is on, call qualified service personnel for assistance.





TX04632-2-19-14

Unpack Shelter

Unstrap the three step stands. The single step stand will remain inside the shelter.



Place the double step stands outside the shelter below the entrance on both sides.



Flip the main circuit breaker in the shelter breaker box and shut off the power in the shelter.



Unpack the six power strips.

The power strips are labeled with a letter to designate its location in the shelter. Match the power strips letter to the appropriate junction.



PH05123-2-18-14

Unpack Shelter (continued)

Install the power strips by inserting the pins on the back of the power strip into the mounting holes on the shelter. When the pins are inserted, pull down on the power strip to lock it into position.

Plug the power cable into the receptacle and rotate the ring on the cable to tighten to the receptacle.

Connect the remaining power strips matching the letters of cables to the letters of the receptacle.

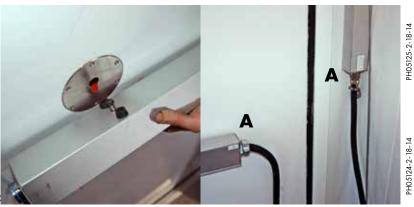
Flip the main circuit breaker in the breaker box to resta shelter.

Once the power strips are connected, the interior lights can be switched on with the switch at either door.

Use tie down straps to secure the cable on the overhead receptacles.

Unstrap the heating/air conditioning units.

Pull up both pins on the folding tray and fold out the two sides.









PH05128-2-18

Unpack Shelter (continued)

Lower the middle tray until the bolts insert into the sides.



▲ CAUTION

Components of the QuickCamp may be heavy. Using one person to lift may result in injury. Two people are required to lift components.

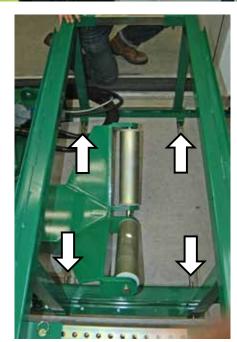
Insert the heating/air conditioning unit onto the folding tray.

Repeat the steps for installing the heating/air conditioning unit for second unit.

Remove the four pins holding the table frame to the floor of the shelter. Move the table off to the side so the feet can be installed.



PH05131-2-18-14



Unpack Shelter (continued)

Install the four feet to the legs of the table frame using the pins attached to the feet.

Place the table top on top of the table frame.

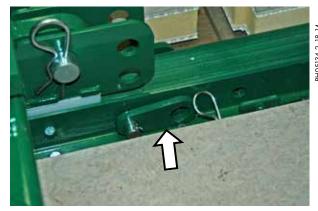


Remove the shipping pin connecting the carriage to the shelter.



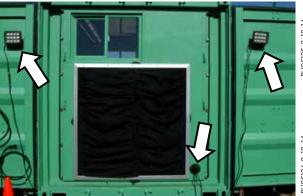
Let the connecting piece fall toward the floor. The removed pin can lay

Remove the three remaining shipping pins securing the carriage to the shelter.



Attach the lights with magnetic bases to the doors of the shelter on the inlet end of the shelter. Route the cables through the opening at the bottom of the shelter next to the pipe seal. Plug the cables into the power strip inside the shelter.





TX04633-2-19-14

next to it.

-14 PH05135-2

Function Testing

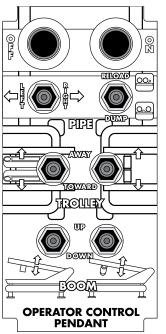
Route the cable from the MegaMc PolyHorse into the shelter through the small opening near the bottom of the pipe seal. Connect the pendant to the controller cable.



Power on the MegaMc PolyHorse using the operator control pendant.

Use the single step stand to be able to see the MegaMc PolyHorse completely from the window on the inlet end of the shelter.

Operate all of the functions of the MegaMc PolyHorse to ensure all the functions work properly according to the operator's manual.



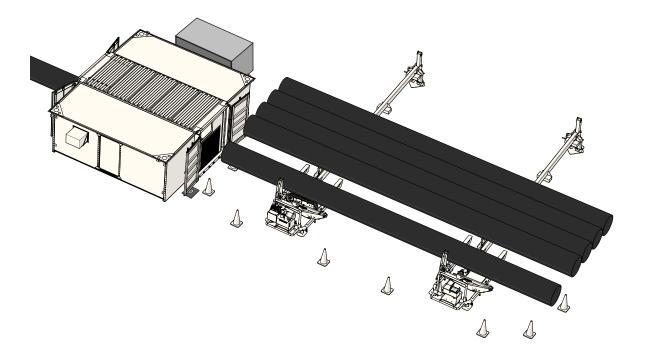
CD00943-7-19-11

TX04634-2-19-14

Load Pipe on MegaMc PolyHorse

Load pipe onto the racks of the MegaMc PolyHorse according to the instructions in the operator's manual for the MegaMc PolyHorse.

Ensure that you maintain a distance of 2 feet from the shelter to the ends of the pipe.



TX04635-2-19-14

Read Before Operating

Before operating this machine, please read this manual and all other equipment manuals that will be used with it thoroughly and keep a copy available for future reference.

This manual describes setup and efficient use of the QuickCamp System. If you have the QuickCamp shelter only, you will have to apply the setup and safety information in this manual for your own jobsite and equipment.

Return manual to the protective storage box when not in use. This manual is to be considered part of your machine.

STOP

TX04636-2-19-14

Load Pipe into QuickCamp Shelter

There are two methods for loading pipe into the carriage fixed jaws of the fusion machine inside the shelter.

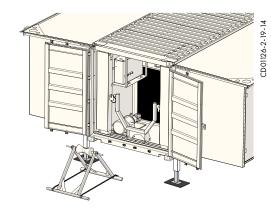
Choose the appropriate method according to conditions and site layout.

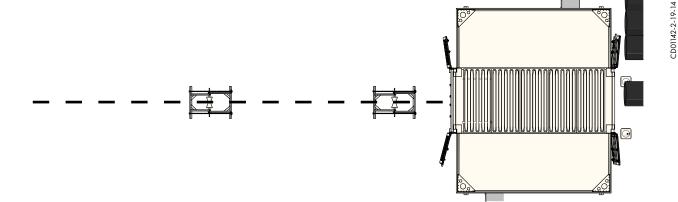
Method 1:

Method Overview: The method is for loading pipe into the shelter from the outlet end of the shelter.

Procedure:

1) Use the two large pipe stands and set up the first one close to the shelter at a height higher than the vee pipe weldment in the mechanical room of the shelter. Set up the second stand past center of the pipe. Ensure that both stands are level and are in the centerline of the shelter and the carriage inside the shelter.



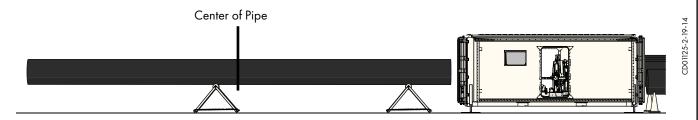


Load Pipe into QuickCamp Shelter (continued)

2) Use equipment to load a pipe onto the two pipe stands.

AWARNING

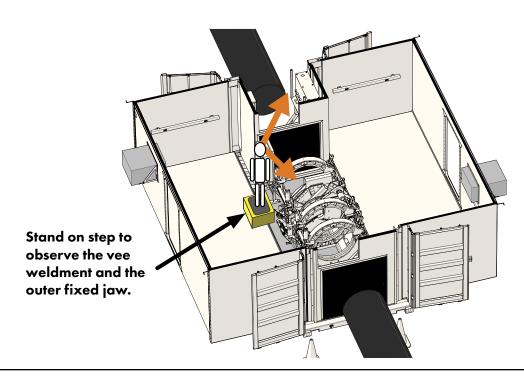
Do not impact the shelter. Severe impact to the shelter could cause the shelter to fall from the support legs to the ground. The shelter could move and could cause serious injury or death.



▲WARNING

Stand clear of the pipe when being moved. The pipe could fall off of the rollers and crush. The falling pipe could result in death or serious injury.

- 3) Use a piece of equipment to insert the pipe into the shelter.
- 4) Stand inside the shelter on the step and observe the pipe entering over the vee weldment through the pipe seal and over the outer fixed jaw. Communicate with handling equipment operator by phone or radio since line of sight with the driver will not be possible. Give directions to the pipe handling operator to ensure everything is cleared as the pipe enters the shelter.
- 5) Insert the pipe into the shelter until the pipe can be clamped into the fixed jaws allowing enough pipe for face off. Final face off adjustment can be made with the carriage movement controls near the fusion machine.



1127-2-19-14

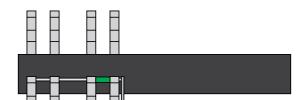
Load Pipe into QuickCamp Shelter (continued)

Method 2:

Method Overview: This method is for loading pipe through the shelter from the inlet end of the shelter.

Procedure:

- Open the carriage of the fusion machine. Pivot the heater and facer out and move the indexer until the heater and facer rest between the fixed jaws.
- 2) Use the MegaMc PolyHorse to move the pipe into the shelter and into the fixed jaws of the carriage. Stop moving the pipe before the pipe rolls off of the roller stand.



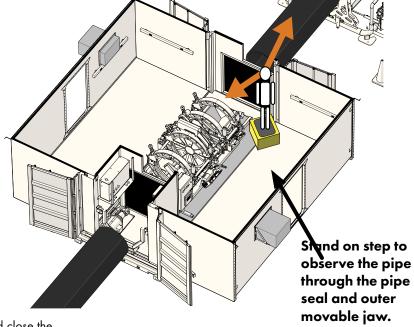
CD01128-2-19-14

ACAUTION

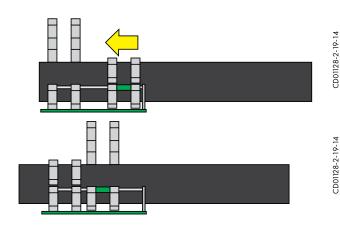
Do not stand between the pipe seal and the fusion carriage. Pipe inserted from the MegaMc PolyHorse can pin the operator and could cause injury. Stand clear of the pipe seal when pipe is being moved into the shelter.

NOTICE:

When bringing the pipe through the pipe seal, avoid pinching the seal on the pipe lift.



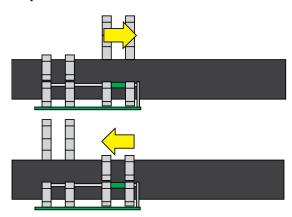
- 3) Clamp the pipe with the movable jaws and close the carriage.
- 4) Clamp the pipe in the fixed jaws.



Load Pipe into QuickCamp Shelter (continued)

5) Open the movable jaws and open the carriage.

6) Clamp the pipe with the movable jaws and open the fixed jaws. Close the carriage.

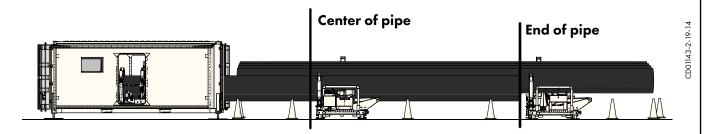


CD01128-2-19-14

7) Repeat this process until the center of the pipe is past the tracks on the track stand.

NOTICE: Ensure the pipe is always clamped by either the movable or fixed jaws during the shuffle process. If the pipe is left unclamped before the center of the pipe can move past the track stand, the pipe will tip up and damage the shelter, carriage, and MegaMc PolyHorse.

8) Once the center of the pipe is past the track stand, unclamp and open the jaws.



- 9) Raise both pipe lifts until the pipe is not in contact with the jaws.
- 10) Use the track stand to move the pipe through the shelter until the pipe can be pulled out of the shelter by the pipe handling equipment.
- Pull the pipe out of the shelter leaving enough pipe for face off. Final face off adjustment can be made with the carriage movement controls near the fusion machine.

TX04637-2-19-14

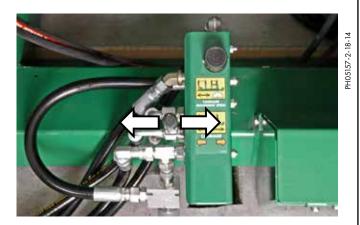
Operation

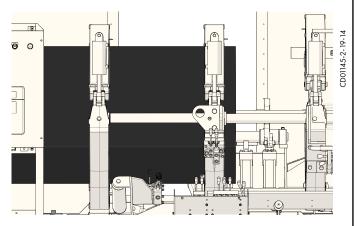
Make a Fusion

When pipe has been loaded into the fixed jaws of the carriage, load the second piece of pipe into the shelter and into the movable jaws of the carriage. Make a fusion according to the operator's manual of the fusion machine.

When the fusion is complete and the pipe has cooled, open the jaws and raise both pipe lifts removing contact between the pipe and the jaws. Raise the MegaMc PolyHorse track pipe stand until it supports the pipe. Move the entire carriage to approximately half the stroke of the movement cylinders.

Pull the fused pipe until the opposite pipe end is near the desired fusion position. Adjust the entire carriage to align the fixed jaws with the pipe end allowing enough pipe for face off. Lower the carriage pipe lifts and clamp the fixed jaws.





TX04638-2-19-14

Special Operation - Cold Weather

Cold Weather Operation

The QuickCamp System is designed to extend the environment in which you can fuse and be productive.

For extreme cold weather conditions, additional measures may need to be taken to ensure successful operation. Additional measures may include heating blankets and warmers on the pipe.

For operation of the QuickCamp and MegaMc PolyHorse in cold weather, the appropriate viscosity hydraulic fluid must be used. The "Hydraulic Fluids" section of this manual offers recommendations for hydraulic fluid for the temperature of operation.

In extreme cold environments, a heating blanket may be necessary to warm the hydraulic tank and warm the hydraulic fluid before operation.

TX04639-2-19-14

Special Operation - Install/Remove Carriage

Installing/Removing the Carriage from the Shelter

Remove the fasteners from the window/pipe seal panel on the inlet end of the shelter.

▲ CAUTION

Hold panel as the fasteners are removed. The panel is heavy and could fall if not supported and cause minor injury.



PH05137-2-19

Use the handles on the panel and lift away from the shelter.

▲ CAUTION

Components of the QuickCamp may be heavy. Using one person to lift may result in injury. Two people are required to lift components.



PH05138-2-19-14

Ensure the area in front of the opening is clear of any obstructions.



PH05139-2-19-

The table frame will be transformed into rails to slide the carriage out of the shelter.

Remove the table top from the table frame. Move the table frame outside near the opening. Remove the feet from the table frame. Unpin the table frame separating the two sides.



PH05140-2-19-14

Special Operation - Install/Remove Carriage

Installing/Removing the Carriage from the Shelter (continued)

Slide the two sides together by rotating the legs toward each other and sliding the legs together up to the second hole as shown.

Pin the legs together. Slide the two drop legs on one end of the frame. Use two pins and pin at any height. The height will be adjusted once attached to the shelter. Attach the feet to the end of the two legs.

Align the exterior rails with the interior rails then hook to the shelter.

Unpin and adjust the height of both legs until the frame is level as it extends from the shelter.

Ensure legs are on firm and stable ground to support carriage weight.









PH05143-2-19-

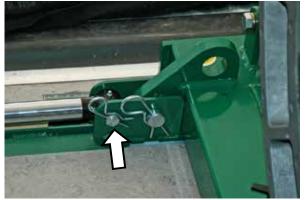
PH05150-2-19-14

PH05144-2-19-

Special Operation - Install/Remove Carriage

Installing/Removing the Carriage from the Shelter (continued)

Unpin both cylinder rods from the carriage skid.



Attach straps or chains to the eyelets of the guide rod supports and use equipment to slowly slide the carriage out of the shelter onto the frame.



PH05146-2-19-14

H05145-2-19-14

Refer to the lifting instructions in the fusion machine operator's manual before lifting the fusion carriage.

Attach the lifting spreader bar to the lifting equipment. Move the spreader bar over the carriage and attach the spreader bar to the carriage.



Lift the carriage up until it is clear of the floor of the shelter and the frame. Slowly move the carriage out of the shelter until the carriage is completely clear.



PH05148-2-19-1

Special Operation -Install/Remove Carriage

Installing/Removing the Carriage from the Shelter (continued)

Unpin the four sliders that are pinned to the ends of the carriage skid.

Attach optional extension hoses and cables.

Now the carriage can be used outside the shelter.

For in-ditch use, reinstall the heater and facer handles.



Reverse these instructions to install the carriage into the shelter.

TX04640-2-19-14

Preventative Maintenance

To insure optimum performance, the machine must be kept clean and well maintained.

With reasonable care, this machine will give years of service. Therefore, it is important that a regular schedule of preventive maintenance be kept.

Service intervals are approximate for average service and may need to be done more frequently in severe service conditions or can be done less frequently if used minimally.



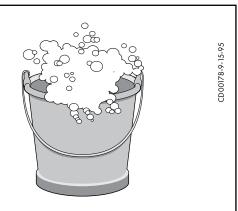
TX04641-2-19-14

Washing the Machine

An important factor in the service life of this machine is cleanliness. The machine should be cleaned with soap and water as needed.

When exposed to dust and mud in a field location, the machine should be washed at the end of each days work.

Keep flooring clean and dry to prevent slip hazards.



TX04642-2-19-14

Check Hydraulic Fluid

Periodically check the hydraulic fluid level in reservoir. All hydraulic cylinders must be retracted before checking fluid to get an accurate level. Maintain fluid at HIGH Level.

Never allow dirt or foreign matter to enter the open tank.

Ensure fluid is clear with no air bubbles present.

Unscrew the filter housing cap to add hydraulic fluid.

Fill the reservoir from a clean container.

Refer to the "Hydraulic Fluids" section of this manual for hydraulic oil recommendations.







TX04643-2-19-14

Change Hydraulic Filter and Fluid

The hydraulic filter and breather should be replaced every year.

The hydraulic fluid should be tested every 500 hours and an ISO cleanliness level of 21/19/16 maintained.



Hydraulic fluid drain valve with hose is located underneath the hydraulic reservoir.

Unscrew the filter housing cap to add hydraulic fluid.

Fill the reservoir from a clean container.

Refer to the "Hydraulic Fluids" section of this manual for hydraulic fluid recommendations.



A shut off valve is located below the hydraulic reservoir for removal of the pump without draining the reservoir.



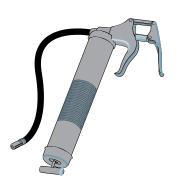
TX04644-2-19-14

Lubrication

Use a grease gun to grease the following parts:

Leveling jack grease zerks.

Lubricate rubber seals to prevent drying out.



CD00183-11-6-

TX04645-2-19-14

Inspect Hydraulic Hoses

Inspect the hoses for damage or leaks.

Inspect the female quick disconnects for damage to the seals. If the seals are damaged, replace quick disconnect.



TX04654-2-26-14

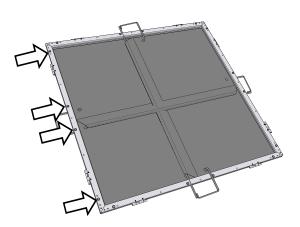
Pipe Seals

Inspect the curtain for damage.

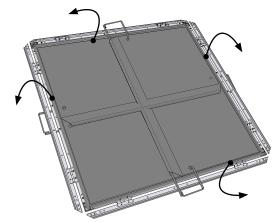
If holes occur on the outer seal, remove the pipe seals from the frame and exchange the inner for the outer seal.

Remove the pipe seal frame from the shelter panel.

Remove the 4 fasteners on each side of the frame



Fold out each of the frame side to expose the cloth pipe seals.



CD00183-11-6-95

Exchange the positions of the two cloth pipe seals.
Fold in the frame sides and reinstall all of the fasteners.



TX04646-2-19-14

Cable Reels

Inspect the reels and ensure they function properly.

Inspect the cables for damage. Replace the cable if damaged.



TX04647-2-19-14

Fasteners Must Be Tight

Check all nuts and bolts to make certain they are secure and in place.



TX04329-7-19-11



QuickCamp System Checklist

Item to Check	Satisfactory	Needs Repair	Repair Comments
Shelter is clean			
Hydraulic reservoir is filled to correct level			
Hydraulic gauges read correctly			
Hydraulic cylinders are free of leaks			
All pivot points lubricated			
All hydraulic hoses free of leaks and in good condition			
All hardware is with unit (lift poles and pins, etc.)			
Power cord and plug in good condition			
All nuts and bolts are tight			
All wiring in good condition			
Electrical plugs and receptacles in good condition			
Shelter jacks function properly			
Power strips function and in good condition			
Shelter exterior in good condition			
Lights function and in good condition			
Doors function properly and in good condition			
Cable reels function properly and in good condition			
Heating/Air Conditioning units work properly			
Heating/AC foldout tray in good condition			
All safety labels and decals are in place			

TX04648-2-19-14



Hydraulic Fluids

The use of proper hydraulic fluid is mandatory to achieve maximum performance and machine life. Use a clean, high quality, anti-wear hydraulic fluid with a viscosity index (VI) of 135 minimum. It should have a maximum viscosity of 500 cSt (2000 SSU) at startup (ambient temperature) and a minimum viscosity of 13 cSt (65 SSU) at the maximum fluid temperature (generally 80°F above ambient). Using hydraulic fluids that do not meet these criteria may cause poor operation and/or damage to the hydraulic components.

The following table specifies the fluid temperature at various viscosities. Temperature rise of the hydraulic fluid can vary from 30° F to about 80° F over the ambient temperature depending on the pressure setting, age of the pump, wind, etc. Mobil Univis N46 hydraulic fluid is installed at our factory. The advantage of this fluid is a wider temperature range, however, this fluid should not be used for continuous operation below 24°F.

TX03082-04-18-16

Hydraulic Fluids Characteristics																		
Manufacturer	Fluid Name	cSt 100F	cSt 210F	V.I.	-20F	_								OF 13	OF 15	60F 	Range °F	Range °C
Mobil	DTE 10 Excel 15	15.8	4.1	168	*	***	*****	*****	*****	*****	*****	*****	****		-16	113	-27 - 45	
	DTE 10 Excel 32	32.7	6.6	164				****	*****	*****	*****	*****	*****	*****	* 12 -	154	-11 - 68	
	DTE 10 Excel 46	45.6	8.5	164				**	*****	*****	*****	*****	*****	*****	*** 23-	173	-5 - 78	
	DTE 10 Excel 68	68.4	11.2	156					****	*****	*****	****	*****	*****	****37	7-196	3 - 91	
	Univis N-32	34.9	6.9	164				****	*****	*****	*****	*****	*****	*****	12-	150	-11 - 66	
	Univis N-46	46	8.5	163				**	*****	*****	*****	*****	*****	*****	** 24-	166	-4 - 74	
	Univis N-68	73.8	12.1	160					****	*****	*****	*****	*****	*****	****39	193	4 - 89	

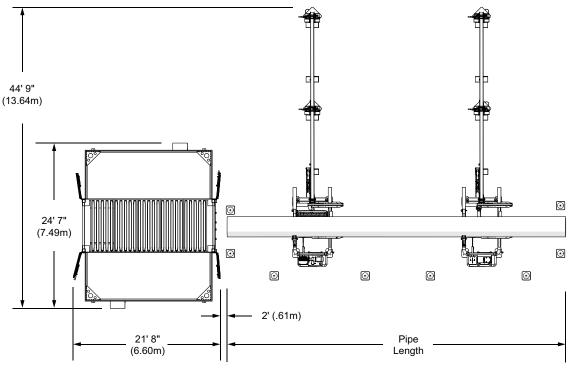
NOTE: This chart is based on pump manufacturer recommendations of 13 to 500 cSt. NOTE: Temperatures shown are fluid temperatures. – NOT ambient temperatures.

Specifications

QuickCamp System Specifications

The QuickCamp System includes the QuickCamp Shelter, three standard 20' dry freight containers, MegaMc® PolyHorse® and MegaMc® Rollers pipe handling systems, and two pipe support stands.

Dimensions:



QuickCamp System Container:

Length: 20' (6.10m)
Width: 8' (2.44m)
Height: 8.5' (2.59m)

Weight: 15,950 lbs. (QuickCamp shelter loaded with 900 fusion carriage and lifting device and all included items)

11,160 lbs. (Shelter only)

Hydraulics:

Motor: 25HP, 3 Phase, 240V, 60Hz

Reservoir Capacity: 35 gal (132.5 liters)

2,300 PSI (158 bar) Operating System pressure

Hydraulic Fluid: See Hydraulic Fluids Section

Specifications

QuickCamp

Power:

Pipe Size Range	Included Machine	Input Power	Electrical Outlets		
	630 High Force		(120V, 60Hz)		
	630 Medium Force	208V, 60Hz, 3Ph (120V, 60Hz)			
	630 Low Force	(1207, 00112)			
011.170 0.411.07	630 High Force	0,40,4,50,4,00,1	(240V, 50Hz)		
8" IPS - 24" OD (225mm - 630mm)	630 Medium Force	240V, 50Hz, 3Ph (240V, 50Hz)			
	630 Low Force	(2401, 30112)			
	630 High Force	(15) (50) 05	(240V, 50Hz)		
	630 Medium Force	415V, 50Hz, 3Ph (240V, 50Hz)			
	630 Low Force	(2401, 30112)			
12" IPS - 36" OD (340mm - 900mm)	900 High Force				
	900 Medium Force	208V, 60Hz, 3Ph (120V, 60Hz)	(120V, 60Hz)		
	900 Low Force	(1207, 00112)			
	900 High Force	0,00,7,50,1,00,1	(240V, 50Hz)		
	900 Medium Force	240V, 50Hz, 3Ph (240V, 50Hz)			
	900 Low Force	(2401, 30112)			
	900 High Force	(15) (50) 08			
	900 Medium Force	415V, 50Hz, 3Ph (240V, 50Hz)	(240V, 50Hz)		
	900 Low Force	(2407, 30112)			

Interior Electrical Outlet Type

110V outlets - 15A Nema 5-15 240V outlets - CEE 7/4 "schuko"

TX04653-2-26-14

About this manual . . .

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This manual is waterproof, tear resistant, grease resistant, abrasion resistant and the bonding quality of the printing ensures a readable, durable product.

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