PREFACE

GENERAL COMMENTS

Congratulations on the purchase of your new McMillen product! This product was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance (such as cleaning and lubricating) is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual and on any safety decals located on the product and on any equipment on which the attachment is mounted. This manual has been designed to help you do a better, safer job. Read this manual carefully and become familiar with its contents.

WARNING! Never let anyone operate this unit without reading the "Safety Precautions" and "Operating Instructions" sections of this manual.

Always choose hard, level ground to park the vehicle on and set the brake so

Unless noted otherwise, right and left sides are determined from the operator's control position when facing the attachment.

NOTE: The illustrations and data used in this manual were current (according to the infor-mation available to us) at the time of printing, however, we reserve the right to redesign and change the attachment as may be necessary without notification.

BEFORE OPERATION

The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understand this manual. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer to obtain further assistance. Keep this manual available for reference. Provide the manual to any new owners and/or operators.

SAFETY ALERT SYMBOL



This is the "Safety Alert Symbol" used by this industry. This symbol is used to wam of possible injury. Be sure to read all warnings carefully. They are included for your safety and for the safety of others working with you.

SERVICE

dards. Use only manufacturer replacement parts. Substitute parts may not meet the required stan-

departmentatione elde this dielfand attentation in subser this popularitie in vehible cooler cost that is na nual. The parts

SOUND AND VIBRATION

Sound pressure levels and vibration data for this attachment are influenced by many different parameters: some items are listed below (not inclusive):

prime mover type, age, condition, with or without cab enclosure and configuration operator training, behavior, stress level

job site organization, working material condition, environment

Based on the uncertainty of the prime mover, operator, and job site, it is not possible to get precise machine and operator sound pressure levels or vibration levels for this attachment.

NOTE: A list of all Paladin Patents can be found at http://www.paladinattachments.com/patents.asp.

M-1643 7-31-13-3

GENERAL SAFETY PRECAUTIONS

WARNING!

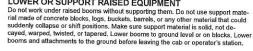
PROTECT AGAINST FLYING DEBRIS



Always wear proper safety glasses, goggles, or a face shield when driving pins in or out, or when any operation causes dust, flying debris, or any other hazardous mate-

WARNING!

LOWER OR SUPPORT RAISED EQUIPMENT



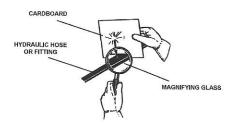
WARNING!



USE CARE WITH HYDRAULIC FLUID PRESSURE

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime mover's operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.
- If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him or her to research it immediately to determine proper
- Wear safety glasses, protective clothing, and use a piece of cardboard or wood when searching for hydraulic leaks. DO NOT USE YOUR HANDS! SEE ILLUS-TRATION.



SAFETY STATEMENTS



THIS SYMBOL BY ITSELF OR WITH A WARNING WORD THROUGHOUT THIS MAN-UAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY OR THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

A DANGER

THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH WILL RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

MARNING

THIS SIGNAL WORD IS USED WHERE SERIOUS INJURY OR DEATH COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

A CAUTION

THIS SIGNAL WORD IS USED WHERE MINOR INJURY COULD RESULT IF THE INSTRUCTIONS ARE NOT FOLLOWED PROPERLY.

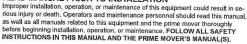
NOTICE

NOTICE INDICATES A PROPERTY DAMAGE MESSAGE

GENERAL SAFETY PRECAUTIONS

WARNING

READ MANUAL PRIOR TO INSTALLATION





READ AND UNDERSTAND ALL SAFETY STATEMENTS

Read all safety decals and safety statements in all manuals prior to operating or working on this equipment. Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation. Know and follow good work practices when assembling, maintaining, repairing, mounting, removing, or operating this



KNOW YOUR EQUIPMENT

Know your equipment's capabilities, dimensions, and operations before operating. Visually inspect your equipment before you start, and never operate equipment that is not in proper working order with all safety devices intact. Check all hardware to ensure it is tight. Make certain that all locking pins, latches, and connection devices are properly installed and secured. Remove and replace any damaged, fatigued, or excessively worn parts. Make certain all safety decals are in place and are legible. Keep decals clean, and replace them if they become worn or hard to read.

GENERAL SAFETY PRECAUTIONS

WARNING!

DO NOT MODIFY MACHINE OR ATTACHMENTS



Modifications may weaken the integrity of the attachment and may impair the func-tion, safety, life, and performance of the attachment. When making repairs, use only the manufacturer's genuine parts, following authorized instructions. Other parts may be substandard in fit and quality. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

WARNING

SAFELY MAINTAIN AND REPAIR EQUIPMENT



- Do not wear loose clothing or any accessories that can catch in moving parts. If you have long hair, cover or secure it so that it does not become entangled in the equipment.

 Work on a level surface in a well-lit area.

- Use properly grounded electrical outlets and tools.
 Use the correct tools for the job at hand. Make sure they are in good condition for the task required.
- · Wear the protective equipment specified by the tool manufacturer.



SAFELY OPERATE EQUIPMENT

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, know its capabilities, dimensions, and all safety requirements. See your machine's manual for these instructions.

- Keep all step plates, grab bars, pedals, and controls free of dirt, grease, debris,
- and oil.

 Never allow anyone to be around the equipment when it is operating.
- Do not allow riders on the attachment or the prime mover.

 Do not operate the equipment from anywhere other than the correct operator's
- Never leave equipment unattended with the engine running, or with this attachment in a raised position.
- Do not alter or remove any safety feature from the prime mover or this attach-
- Know your work site safety rules as well as traffic rules and flow. When in doubt on any safety issue, contact your supervisor or safety coordinator for an explanation.

EQUIPMENT SAFETY PRECAUTIONS

WARNING!

KNOW WHERE UTILITIES ARE



Observe overhead electrical and other utility lines. Be sure equipment will clear them. When digging, call your local utilities for location of buried utility lines, gas, water, and sewer, as well as any other hazard you may encounter.

WARNING



EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST ALONG WITH OTHER HAZARDOUS DUSTS MAY CAUSE SE-

RIOUS OR FATAL RESPIRATORY DISEASE.
It is recommended to use dust suppression, dust collection and if necessary personal protective equipment during the operation of any attachment that may cause high levels of dust.

WARNING!



REMOVE PAINT BEFORE WELDING OR HEATING

Hazardous furnes/dust can be generated when paint is heated by welding, soldering or using a torch. Do all work outside or in a well ventilated area and dispose of paint and solvent properly. Remove paint before welding or heating.

When sanding or grinding paint, avoid breathing the dust. Wear an approved respira-tor. If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow furnes to disperse at least 15 minutes before welding or heating.

WARNING!



END OF LIFE DISPOSAL

At the completion of the useful life of the unit, drain all fluids and dismantle by separating the different materials (rubber, steel, plastic, etc.). Follow all federal, state and local regulations for recycling and disposal of the fluid and components.



OPERATING THE AUGER

- All bystanders should be kept a minimum of 10 feet (3 meters) away from the working area of the earth auger.
- Operate only from the operator's station
- Avoid steep hillside operation statuon. Avoid steep hillside operation which could cause the prime mover to overturn. Consult your prime move operator's and safety manuals for maximum incline allowable. Reduce speed when driving over rough terrain, on a slope, or turning, to avoid over-
- turning the vehicle.
- turning the vehicle.

 An operator must not use drugs or alcohol, which can change his or her alertness or coordination. An operator taking prescription or over-the-counter drugs should seek medical advice on whether or not he or she can safely operate equipment.

 Before exiting the prime mover, lower the attachment to the ground, apply the parking
- brakes, turn off the prime mover's engine, and remove the key.

 Flow and pressure gauges, fittings, and hoses must have a continuous operating pressure rating of at least 25% higher than highest pressures of the system.

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DECALS

GENERAL INFORMATION

The following decals are reductions of the actual decals used on auger drives. Use this information to order replacements for lost or damaged decals. Be sure you understand all decals before operating the attachment. They contain information you need to know for attach-

IMPORTANT: Keep all safety decals clean and legible. Replace all missing, or damaged safety decals. When replacing parts with safety decals attached, the safety decals must also be re

REPLACING SAFETY DECALS: Clean the area of application with a nonflammable solvent, then wash the same area with soap and water. Allow the surface to dry. Remove the backing from the safety decal, exposing the adhesive surface. Apply the safety decal to the position shown in the diagram, and smooth out any bubbles.



PART #22680 DANGER DECAL (LOCATED ON THE MOTOR/PLANETARY HOUSING)

NOTE: CONTACT YOUR LOCAL DEALER TO PURCHASE LOGO AND MODEL NUMBER DECALS.

EQUIPMENT SAFETY PRECAUTIONS

TRANSPORTING THE AUGER

- Travel only with the earth auger in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes. Tether the earth auger with a chain, if necessary, to prevent uncontrolled swinging of the auger when moving from hole to hole.

- the auger when moving from hole to note.

 Do not drive close to ditches, excavations, etc., cave in could result.

 Do not smoke when refueling the prime mover. Allow room in the fuel tank for expansion. Wipe up any spilled fuel. Secure cap tightly when done.

 Remove the earth auger from the prime mover before transporting to and from the job



MAINTAINING THE AUGER

- Before performing maintenance, lower the attachment to the ground, apply the parking brakes, turn off the engine, and remove the key. Never adjust a relief valve for pressure higher than recommended by the prime mover
- manufacturer.
- rnanulacturer.

 Never perform any work on an attachment unless you are authorized and qualified to do so. Always read the operator service manual's before any repair is made. After completing maintenance or repair, check for correct functioning of the attachment. If not functioning properly, always tag "DO NOT OPERATE" until all problems are com-
- Worn, damaged, or illegible safety decals must be replaced. New safety decals can be ordered from McMillen* free of charge. Never make hydraulic repairs while the system is under pressure. Serious personal injury or death could occur.

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INSTALLATION INSTRUCTIONS

GENERAL INFORMATION

Find the mounting kit diagram and parts list for the kit you have received. Study the diagram and familiarize yourself with the names of the various parts. This knowledge will assist you in understanding these instructions.

Read these instructions carefully before attempting to mount the auger.

READ AND UNDERSTAND ALL SAFETY INFORMATION PRIOR TO MOUNTING YOUR AUGER

QUICK ATTACH MOUNTING ASSEMBLIES

es some Excavator Mounts, Telehandler Mounts and all Skid Steer & Wheel Loader Mounts,)

- Remove the bucket or other attachment from the prime mover quick attach mechanism.
- 2. Attach the quick attach mounting bracket to the prime mover quick attach mechanism, as per manufacturer's recommendations.
- Attach the swivel (#21694) to the quick attach mounting bracket with pin (#22255) provided. Secure the pin in place with klik pins (#21169).
- If your mounting bracket is designed for the installation of a cradle, bolt the cradle to the bracket using the .50" UNC X 2.00" capscrews, lock washers and hex nuts provided. 5. Install the drive unit to the swivel using the pin provided with the drive unit assembly.
- 6. Install the auger to the drive unit with the bolt and nut provided with the drive unit assembly.
- Refer to the "HYDRAULIC SYSTEM HOOK-UP" section in this manual for hydraulic 7.

BACKHOE AND EXCAVATOR "PENDULUM" MOUNTING ASSEMBLIES

- Remove the bucket from the dipper arm and curl cylinder pin connections. The dipper arm pin will be used to attach auger pendulum mounting to the dipper arm. Curl cylinder pin will not be required for auger installation.
- If using a universal adjustable width pendulum mounting assembly: Space the two backhoe adapter ears to the same width as the dipper arm and secure to the base using the .50" hardware provided. After determining the correct width, the backhoe adapter ears must be welded to the base.

INSTALLATION INSTRUCTIONS

- Attach the pendulum mounting (all types) to the dipper using the dipper arm pin removed from the bucket in Step #1. Secure the bucket pin as per prime mover manufac-3.
- Install the auger drive unit to pendulum mount with pivot pin provided with the drive unit
- Install the auger to the drive unit with the bolt and nut provided with the drive unit as-5. sembly
- Refer to the "HYDRAULIC SYSTEM HOOK-UP" section in this manual for hydraulic 6. connection instructions and recommendations

BACKHOE AND EXCAVATOR "PIN GRABBER" MOUNTING ASSEMBLIES

- Remove the bucket from the dipper arm and curl cylinder pin connections
- Attach the pin grabber mounting (all types) to the dipper and curl cylinder using the pivot pins and cotter pins provided.
- Attach the swivel (#21694) to the pin grabber mounting bracket with pivot pin provided. Secure the pin in place with klik pins (#21169). 3.

NOTE: Some assemblies require the installation of step bushings on each side of the swivel when supplied with a pivot pin longer than the standard #22255 (1.25" diameter by 6.00" effective length) pivot pin.

- If your mounting bracket is designed for the installation of a cradle, bolt the cradle to the bracket using the .50" UNC X 2.00" capscrews, lock washers and hex nuts provided.
- 5 Install the drive unit to the swivel using the pin provided with the drive unit assembly.
- Install the auger to the drive unit with the bolt and nut provided with the drive unit as-6.
- Refer to the "HYDRAULIC SYSTEM HOOK-UP" section in this manual for hydraulic 7. connection instructions and recomme

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HYDRAULIC SYSTEM HOOK-UP INSTRUCTIONS

GENERAL INFORMATION

Once the installation instructions are complete, you are now ready to make the hydraulic connections necessary to operate your earth drill.

READ AND UNDERSTAND SAFETY INFORMATION PRIOR TO MAKING HYDRAULIC CONNECTIONS.

Your equipment dealer is in the best position to advise you as to where the best place Tout equipment dealer is in the best position to advise you as to written the best place on your machine is to make the hydraulic connections to power your earth drill drive unit. The list below shows the most common places to "tap" into the hydraulic system on various types

- SKID STEER LOADERS Auxiliary hydraulic outlets.
- BACKHOES & EXCAVATORS Auxiliary hydraulic outlets or bucket curl cylinder circuit.
- · WHEEL LOADERS & TRACTOR LOADERS Auxiliary hydraulic outlets or bucket tilt (dump) cylinder circuit.

Determine the length of hydraulic hoses required to plumb drive unit into the place on your machine where you will be "tapping" into the hydraulics. Be sure the two hydraulic hoses are long enough to perform at the full range of the earth drill's operating capacity. A case drain line may also be required to operate your earth drill.

- * Models 975, 1475, 1975, 2475 and 3575 require two $1/2^{\circ}(12.7\text{mm})$ or $3/4^{\circ}$ (19mm) ID hydraulic hoses with #10 JIC Female fittings on one end of each hose to connect hoses to drive unit fittings.
- Models 3450 and 4450 ONLY. These models are designed for maximum back pressure
 of 400 psi (28 kg/cm²) and require two 3/4" (19mm) hydraulic hoses with #12 JIC Female fittings on one end of each hose to connect hoses to drive unit fittings.

For back pressures exceeding 400 psi (28 kg/cm²): A Drain Line Kit (Part #21218) is available for models 3450 and 4450 when back pressures exceed 400 psi. To order, contact your local dealer.

NOTE: Fittings on the other end of each hydraulic hose should match the threads on the hydraulic quick couplers to be used.

WARNING! HOSES AND FITTINGS MUST HAVE A CONTINUOUS OPERATING PRES-SURE RATING OF AT LEAST 25% HIGHER THAN THE HIGHEST PRES-SURES OF THE SYSTEM YOU ARE "TAPPING" INTO.

Once all of the hydraulic connections have been made and checked for leaks, you are now ready to operate your earth drill. READ AND UNDERSTAIND OPERATING INSTRUCTIONS AND SAFETY INFORMATION PRIOR TO OPERATING YOUR EARTH DRILL.

INSTALLATION INSTRUCTIONS

UNIVERSAL FRONT END LOADER MOUNTING ASSEMBLY

- The universal front end loader mounting assembly (#21235) can be used to adapt your McMillen Earth Auger to the side of the loader arm, lip of a bucket, or fork lift forks. DO NOT USE ON SKID -STEER LOADERS.
- Place loader bracket clamp plate (#21449) on the inside of the loader arm, top of the

NOTE: For mounting on lip of bucket you will need to drill two 7/16" diameter holes through the bucket.

- Place the loader bracket #21628 on the opposite side of clamp plate and secure with the four .44" bolts #1080 and hex nuts #1227 provided.
- Attach the swivel (#21694) to the loader mounting bracket with pivot pin #22255 provided. Secure the pin in place with klik pins (#21169).
- Install the drive unit to the swivel using the pin provided with the drive unit assembly. 5
- 6. Install the auger to the drive unit with the bolt and nut provided with the drive unit as-
- Refer to the "HYDRAULIC SYSTEM HOOK-UP" section in this manual for hydraulic 7. connection instructions and recommendations.

WELD-ON EXCAVATOR MOUNTING

McMillen offers a blank weld on plate with mounting ears and swivel for welding onto your own excavator mounting bracket.

After securely welding the plate onto your bracket:

- Attach the swivel (#21694) to the mounting plate with pivot pin #22255 provided. Secure the pin in place with klik pins #21169.
- Install the drive unit to the swivel using the pin provided with the drive unit assembly.
- 3. Install the auger to the drive unit with the bolt and nut provided with the drive unit as-
- Refer to the "HYDRAULIC SYSTEM HOOK-UP" section in this manual for hydraulic

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OPERATING INSTRUCTIONS

INTENDED USE

This unit is designed for drilling vertical holes into the earth. Use in any othe way is considered contrary to the intended use

- After all installation instructions have been completed, safety information read and understood, and the rest of this operator's manual has been reviewed, your McMillen Hydraulic Earth Drill is now ready for use.
- With the auger raised off the ground and the vehicle engine set at a low RPM, activate the earth drill control valve to determine which position the control valve lever must be in to turn auger in a forward (clockwise) rotation. This is the "digging" position. 2.
- Before beginning to dig, experiment with auger speed to determine a suitable auger RPM. Generally in fight and sandy soil a high RPM is desirable. In hard, rocky, or frozen soils a slower RPM is desirable. To increase auger RPM, increase vehicle engine RPM. To decrease auger RPM, decrease vehicle engine RPM. 3
- Return earth drill control valve to neutral position to stop the auger. Lower the auger to the ground so that only the center point penetrates the ground about 2" (51mm). 4
- Activate the earth drill control valve so auger is turning in a forward (clockwise) rotation. Use only enough down pressure to assure positive penetration of auger into the ground. Ease up on down pressure if auger rotation slows down drastically or stalls.

NOTE: Excessive down pressure will cause the auger to stall frequently.

- When auger has penetrated the ground about 24" (610mm), raise the auger from the hole to clean the dirt out. Repeat this procedure until the desired hole depth is obtained.
- Once the required hole depth is reached, allow the auger to turn a few seconds at this depth to
- Return the earth drill control valve to the neutral position to stop the rotation of the auger. Raise the auger out of the hole, move away from the hole, then activate the earth drill control valve to spin the loose soil off of the augers.

NOTE: Do not reverse the auger rotation to remove from the hole as loose soil on the auger flights will fall back into the hole.

- If necessary, repeat steps 7 & 8 to obtain a cleaner hole.
- In some soil conditions or when excessive down pressure is applied, auger may "screw" itself In some son continuous or winen excessive uowin pressure is appriete, auger may screw insent into the ground and become stuck causing earth drill to stall. If this happens, reverse the auger rotation (counter-clockwise) by moving the control valve lever to the reverse position and slowly raise the auger. Once unstuck, return the control valve lever to the forward rotation position and

OPERATING INSTRUCTIONS

- If the auger becomes lodged under rocks, roots, or other large obstructions, do not attempt to raise the auger out of the ground. See step 10 for proper procedure to relieve the auger.
- 12. Avoid excessive side loading to earth drill which can cause drive unit or auger damage.
- Keep auger teeth and points in good condition. Check frequently and always keep spares on hand so they can be replaced as wear is detected to avoid damage to tooth holders and auger

WARNING: To prevent possible injury or death, keep all bystanders 10 feet or more away from rotating auger. Take extra precautions when digging in locations where any type of landscape fabric may be present.

STORAGE

- Check that drive unit motor and hoses are full of clean oil and planetary is full.
- Coat liberally with grease the output shaft and collar, extension shaft and collar, and all connecting pins to prevent rust and reduce wear.
- Clean the unit thoroughly, removing all mud, dirt, and grease.
- Inspect for visible signs of wear, breakage, or damage. Order any parts required and make the necessary repairs to avoid delays upon removal from storage.
- Tighten loose nuts, capscrews and hydraulic connections.
- Seal hydraulic system from contaminants and secure all hydraulic hoses off the ground to help pre-
- · Replace decals that are damaged or in unreadable condition.
- Store unit in a dry and protected place. Leaving the unit outside will materially shorten its life.

Additional Precautions for Long Term Storage:

· Touch up all unpainted surfaces with paint to prevent rust.

REMOVAL FROM STORAGE

- Remove cover.
- Wash unit and replace any damage and/or missing parts .
- Check hydraulic hoses for damage and replace as necessary.

LIFT POINTS

Lifting points are identified by lifting decals where required. Lifting at other points is unsafe and can damage attachment. Do not attach lifting accessories around cylinders or in any way that may damage hoses or hydraulic components.

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TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Slow Speed	Low Flow	Check with flow meter. If low investigate cause.
	Line restrictions	Clear lines
	Fittings or connections too small	Replace with proper sizes.
	Oil filter dirty	Replace
	Hydraulic pump worn or damaged	See Dealer for repair
Insufficient Digging Power	Worn teeth or point	Replace
	Low system Pressure (PSI)	Check with pressure gauge. If low, investigate cause.
	Relief Valve damaged or setting wrong	Adjust or replace as required.
	Excessive load	Reduce load to within machine specifications.
Reverse Direction	Hoses reversed	Re-install hoses correctly.
Excessive Oil Heating	Line restrictions	Clear lines
	Fluid dirty	Replace hydraulic fluid and filter.
	Insufficient quantity of hydraulic fluid	Fill reservoir to proper level. increase reservoir storage capacity.
Oil Leaks	Hoses loose or damaged	Tighten or replace
	Fittings loose or damaged	Tighten or replace
	Hydraulic motor seals worn or damaged	See Dealer for repair.

OPERATING INSTRUCTIONS

- · Attach lifting accessories to unit at recommended lifting points.
- Bring lifting accessories together to a central lifting point Lift gradually, maintaining the equilibrium of the unit.

WARNING! Use lifting accessories (chains, slings, ropes, shackles and etc.) that are capable of supporting the size and weight of your attachment. Secure all lifting accessories in such a way to prevent unintended disengagement. Failure to do so could result in the attachment falling and causing serious personal injury or death.

TIE DOWN POINTS

Tie down points are identified by tie down decals where required. Securing to trailer at other points is unsafe and can damage attachment. Do not attach tie down accessories around cylinders or in any way that may damage hoses or hydraulic components.

- Attach tie down accessories to unit as recommended. Check unit stability before transporting.

WARNING! Verify that all tie down accessories (chains, slings, ropes, shackles and etc.) are capable of maintaining attachment stability during transporting and are attached in such a way to prevent unintended disengagement or shifting of the unit. Failure to do so could result in serious personal injury

TRANSPORTING

Follow all local government regulations that may apply along with recommended tie down points and any equipment safety precautions at the front of this handbook when transporting your attachment.

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SPECIFICATIONS

MODEL 975	MODEL 1455 & 1475	
Maximum Auger Diameter. Minimum Hydrautic Flovr. Maximum Hydrautic Flovr. Maximum Hydrautic Flovr. Maximum Continuous Operating PSI: Maximum Back Pressure Output shaft Options: Output shaft Options: 2 (Simmily Round 2-81'e (65'mm) Round 2 (Simmily-liveage)	Maximum Auger Diameter: 30(762mm) Minimum Hydraule Flow; 1000000000000000000000000000000000000	
OUTPUT SPEED FLOW SPEED FLOW SPEED PSI OUTPUT TORQUE PSI OUTPUT TORQUE FORQUE 6 (23) 23 200 (141) = 1000 (1356) 0 (30) 2 47 2500 (170) = 1277 (1731) 12 (45) 71 3000 (211) = 1500 (2034) 15 (57) 8 8		
MODEL 1955 & 1975	MODEL 2475	
Maximum Auger Diameter. Minimum Hydraulic Flow: Maximum Hydraulic Flow: Maximum Hydraulic Flow: Maximum Boshirous Operating PSI: Maximum Back Pressure Output shaft Options: Output shaft Options: 2 (Simm) Round 2-48 (Feffem) Round 2-18 (Feffem) Round	Maximum Auger Diameter: 36(914mm) Minimum Hydraule Flow; 20gpm (78im) Maximum Andiauleur Operating PSI: 3000 pm (176im) Maximum Golduleur Operating PSI: 3000 pm (176im) Maximum Back Pressure Output shaft Options: 15(16im) 27(17im) Round 28(16im) Round 27(17im) Round 27(17im) Round 27(17im) Round 27(17im) Round	
OUTPUT SPEED FLOW FLOW SPEED FLOW PRESSURE COUTPUT TOROUGE GPM_(EPM) = RPM PSI (boldry) = LbF1 (bren) 1 Dept. (bren) 1 Dept. (bren) 18 (68) = 49 200 (141) = 1856 (2516) 2328 (3156) 222 (83) = 73 22 (83) = 73 3000 (211) = 2769 3755 28 (106) = 90 30 (114) = 97 97	OUTPUT SPEED PRESSURE TORQUE FOR THE PRESSURE TORQUE F	
Output speed and torque specifications are based on theoretical values and are provided for comparative purposes only. McMillen is continually striving to improve its products. Therefore, we reserve the right to make changes to our products or specifications at any time without notice or obligation.	Maximum Auger Diameter:	