

AWARNING

Cancer and Reproductive Harm www.P65warnings.ca.gov

This product and other products could be protected by patents or have patents pending. All the latest patent information is available at patent.mcelroy.com

Thank you for purchasing this McElroy product.

Introducti

The McElroy LineTamer® is designed to remove coil set and re-round coiled pipe for easier fusion and to minimize the possibility of dangerous uncontrolled pipe recoil. The LineTamer consists of a straightening unit and a re-rounding unit which prepares 2" IPS high and medium density coiled polyethylene pipe for installation. With reasonable care and maintenance, this machine will give years of satisfactory service.

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



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.



MU2-03-13-14

TX04659-03-24-14



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.

RETURN OF GOODS

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

Varrant

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 _____

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Tulsa, Oklahoma, USA

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Safety Alerts



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

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



STAKE.

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

Equipment Safety



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



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

WR00052-12-1-92





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.



TX02946-4-15-09

General Safety

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

Equipment Safet

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.



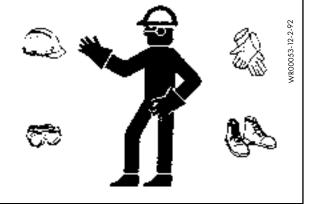
SAFE1 ST-12-22-92

TX00114-4-22-93

Wear Safety Equipment

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

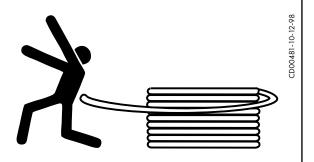
Remove jewelry and rings, do not wear loose-fitting clothing, and tie back long hair that could catch on controls or moving machinery.



TX00032-04-18-16

Cutting Coil Bands

Coiled pipe can uncoil with considerable force, causing extreme bodily injury if not properly contained. Do not cut the straps around the coil until the coil is contained in a suitable reel trailer or coil cage.

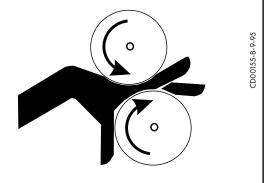


TX01581-1-11-99

Equipment Safety

Keep Personnel Away

Moving parts in this machine can cause severe bodily harm. All personnel must keep hands and body away from moving parts of machine. Failure to do could result in serious injury or death.



CD00482-10-13-98

TX01601-3-31-11

Coiled Pipe Safety

When the tail end of the coil unwinds, or when the pipe is being cut, the ends can move suddenly in any direction with great force.



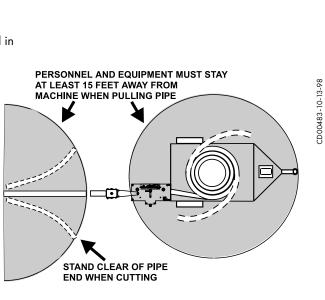
Loose ends of coiled pipe can move with great force in any direction. Keep personnel at least 15 feet away. When pulling pipe through the LineTamer, personnel and equipment must stay at least 15 feet away from machine and pipe ends. Failure to do so could result in serious injury or death.

Cold Weather Conditions

Operation below 32° F is not recommended.

The forceful movement of loose ends of pipe become more pronounced in cold weather and all personnel must be aware for their own safety.

There are practical limits to pulling pipe in cold weather. The ability of the pipe to be straightened and re-rounded diminishes.





Usage Options

I: Stringing & Straightening Pipe

Pulling pipe from LineTamer and stringing pipe on the ground for direct in-trench burial.

II: Stringing & Planting Pipe

Pulling LineTamer behind vehicle with planting vehicle pulling pipe directly into ground.

III: Stringing & Plowing Pipe

Plowing vehicle pulling pipe directly into ground from the LineTamer.

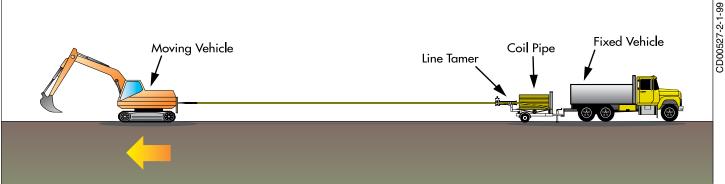
IV: Straightening Pipe for Directional Boring

Directional boring machine pulling pipe through pre-drilled hole from LineTamer.

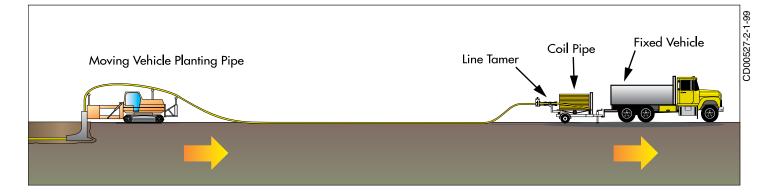
V: Straightening Pipe for Relining

Pipe being pulled from LineTamer through existing pipe for relining. TX01583-1-11-99

I: Stringing & Straightening Pipe

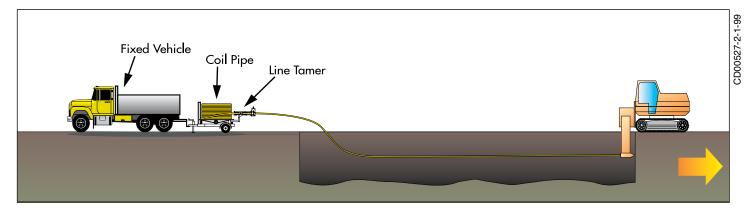


II: Stringing & Planting Pipe

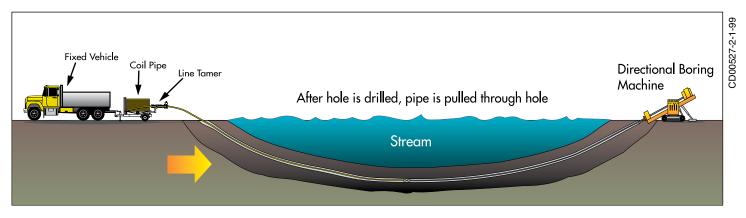




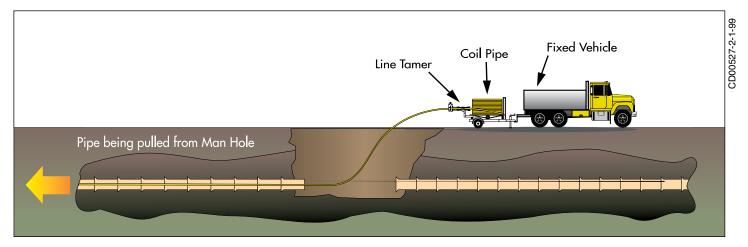
III: Stringing & Plowing Pipe



IV: Straightening Pipe for Directional Boring



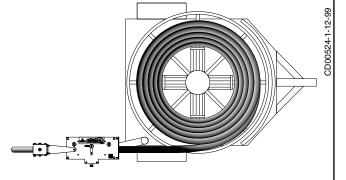
V: Straightening Pipe for Relining



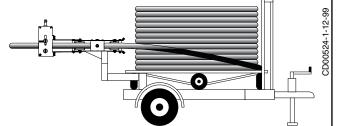
Mounting LineTamer

Safe handling of coiled pipe, conduit, or duct requires the McElroy LineTamer mounted on a specially designed, heavy duty, coil pipe trailer.

The LineTamer should be mounted ahead of the payout of the coil in a manner that won't put the pipe in a bind. It is designed for use with pipe that is uncoiling in a clockwise direction, and must be inverted for use with pipe uncoiling counterclockwise.



The mounting height should be toward the bottom half of the coil.

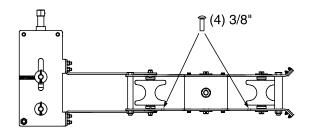


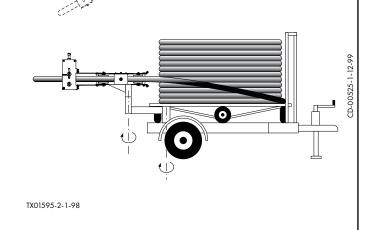
CD-00525-1-12-99

For best results, the LineTamer should be mounted as shown. This mounting arrangement permits the re-round roller assembly to pivot freely. It also allows the LineTamer to self adjust to small changes in the pulling direction angle.

The LineTamer should be mounted on a double pivoting arm that allows both the arm to pivot freely and the LineTamer to pivot freely. The mounting style and location should also permit easy loading of the coil and safe transport down the road.

The LineTamer has 4 mounting holes for attaching the machine to a frame. Use four 3/8" diameter carriage bolts to secure the machine. See the specification section for mounting dimensions.



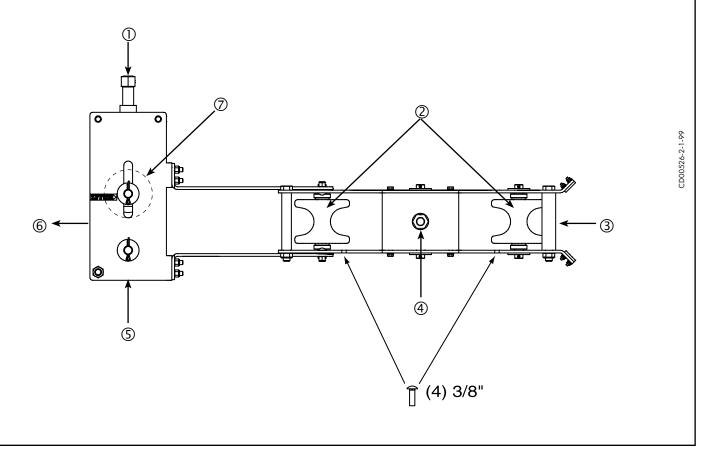


CD00490-2-1-99

Nomenclature

- O Re-rounding Rollers Adjustment Shaft
- ② Straightening Rollers
- 3 Pipe In
- ④ Straightening Roller Adjustment Shaft
- \bigcirc Re-rounding Roller Assembly
- 6 Pipe Out
- ⑦ Re-round Rollers

TX01594-2-3-99



Over

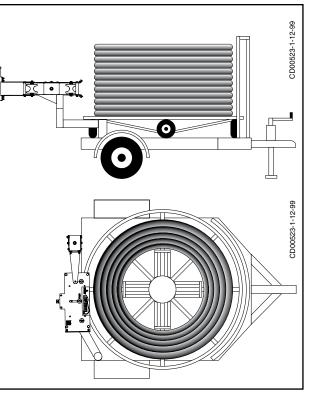
ALLEN

Transporting

Secure Pipe Before Transporting

The coil of the pipe should be secured in the trailer before transporting. Use locking straps or similar means to secure the coil to itself as well as the trailer frame. This will prevent damage to the pipe and trailer from shifting loads at travel speeds.

The LineTamer must also be secured to the trailer prior to towing the trailer.



TX01593-1-12-99

Read Before Towing Trailer

Never tow a trailer before you check to be sure of the following:

Brake fluid is at the proper level.

Coupler and hitch are the right size.

Coupler and safety chains are safely secured to hitch.

Trailer jack is in the raised position.

Check all fasteners for proper tightness.

Wheel lug nuts are properly tightened.

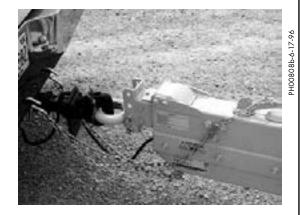
Wheel bearings are properly adjusted and maintained.

Load is within maximum load carrying capacity.

Tires are properly inflated.

All trailer lighting is working properly.

Follow all federal, state local and industry standards when towing a trailer.



Read Before Operating

Before operating this machine, please read this manual thoroughly and keep a copy available for future reference.

Opera

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

TX00401-9-15-94

Pulling Force Limitations

When determining the amount of pulling force required through the LineTamer, consideration must be given to the amount of drag on the pipe. The amount of drag can be negligible or more than the safe pulling strength of the pipe, depending on the terrain and conditions at the job site.

Nominal pulling force through the 2" LineTamer is 1,100 lbs.

Total Force = Nominal + Friction

NOTICE: Total pulling force should never exceed the pipe manufacturer's safe pulling strength. Exceeding these pulling forces can damage both pipe and equipment.

It may be necessary to include a force monitoring device or a fusible link to ensure safe pulling forces are maintained.



STOP

PH01477-11-3-98

Stop-12-28-95

TX01605-10-23-98



Load Coil

Load coil on trailer, on reel, in a cage or stationary reel stand. Follow manufacturer's instructions for loading and unloading coils.

Coiled pipe can uncoil with considerable force, causing extreme bodily injury if not properly contained. Do not cut the straps around the coil until the coil is loaded and properly contained.



TX01584-1-11-99

Cutting Bands

Coiled pipe can uncoil with considerable force, causing extreme bodily injury if not properly contained. Do not cut the bands around the coil until the coil is contained in a suitable reel trailer or coil cage.

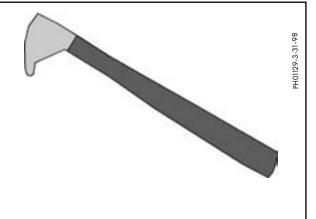
Do not cut all of the plastic bands at this time. Cut only those necessary for the amount of pipe to be uncoiled



TX01586-1-11-99

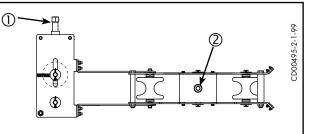
Cutting Plastic Bands

It will be necessary to cut the plastic bands on the coil during the pulling operation. These bands can be of considerable strength. If not cut they could cause the pipe to kink. Use a long handled blunt nose cutter to avoid putting arms and hands inside the coil trailer/cage.



Operation

Open Space Between Rollers



- ① Turn rerounding rollers adjustment shaft counterclockwise as far as possible to open up the rollers.
- Turn straightening rollers adjustment shaft counterclockwise as far as possible to open up the space between the rollers.

TX01588-1-11-99

Loading Pipe in LineTamer

Install pulling head or other means of pulling, at pipe payout.

To load the pipe through the LineTamer, align the pipe curvature with the LineTamer and install manually.

Before engaging any rollers, ensure that pipe is through machine with at least one foot of material past re-rounding rollers.

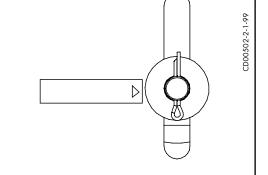


TX01589-1-11-99

Readjusting Rollers

With pipe loaded in machine, turn the straightening rollers adjustment shaft clockwise until the roller shaft is in the optimum range, as indicated on the decal.

Turn the re-rounding rollers adjustment shaft clockwise until the roller shaft is in the optimum range, as indicated on the decal.

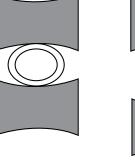


TX01590-1-11-99

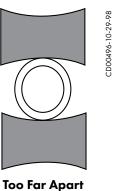
Setting Re-rounding Rollers

Ambient temperature conditions, density of pipe, and wall thickness will dictate what the actual setting needs to be. When the rollers are set too close, they will apply too much force and overcompensate for an out-of-round condition.

When the rollers are set too far apart they are not applying enough force to re-round the pipe.



Too Close



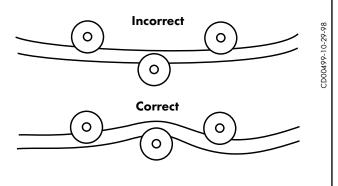
TX01591-1-11-99

Setting Straightening Rollers

If the straightening rollers are not set properly, the coil set will not be removed properly.

Opera

The proper setting will back bend the coiled pipe to remove coil set for safe handling. With the proper tension on the pipe the coil set will be forced out and the pipe will be straightened. The correct setting will also ensure that the pipe is centered in the re-rounding rollers.



TX01592-1-11-99

Precautions

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

Do not stand in front or behind preparation machine during pulling process.

Always operate machine from control side of unit.

Operator should always be in radio contact with driver of pulling vehicle.

Never stand on preparation machine during operation.

Keep hands and legs away from machine during operation.

Do not sit or step on pipe during pull.

All non-participating personnel should be at least 15 feet away from pipe coil and machine during pull.



TX00586-8-10-95

Pulling Pipe

Pull pipe through machine at speeds of 50 to 150 ft./min.

(less than 2 miles per hour).

The roller settings shown on the machine are guidelines only.

Lower speeds will require less applied force on the pipe.

Thinner wall pipe will also require less applied force on the pipe.

Do not exceed 150 ft./min. pulling speed.

Operation below 32° F is not recommended.



PH01480-11-3-98

Preventative Maintenance

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

Maintena

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

Store machine inside, out of the weather, whenever possible.

TX0042881095

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.

TX00601-8-10-95

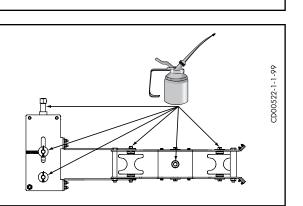
Roller Adjustment Shafts

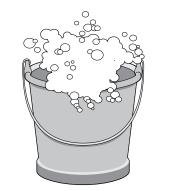
Periodically clean the threads on the roller adjustment shafts and apply a light coat of oil.

Oil all bearings and sleeves as required.

TX01593-1-11-99







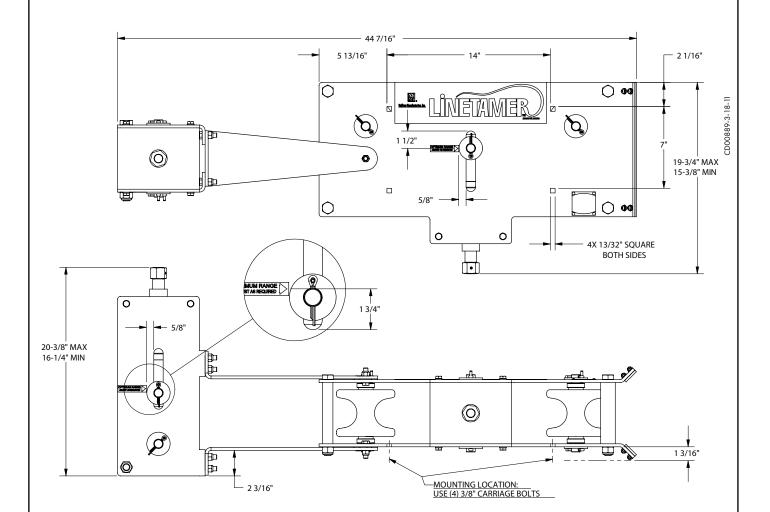
CD00178-9-15-95

Specifications

b.

Pipe Size:	2" IPS (2.375" O.D.)
Dimensions :	44.44" (1129mm) long
	19.75" (502mm) wide
	20.38" (518mm) tall
Weight :	119 lbs. (54 kg)

TX01596-1-11-99



About this manual . . .

McElroy Manufacturing continually strives to give customers the best quality products available. This manual is printed on Teslin[®], a polyolefin plastic film made for durable applications and harsh environments.

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

Teslin does not contain any cellulose based materials and does not contribute to the harvesting of our forests. Teslin is non-toxic and does not contain any ozone-depleting constituents. Teslin can be safely disposed of in a landfill and will not leach into ground water.

