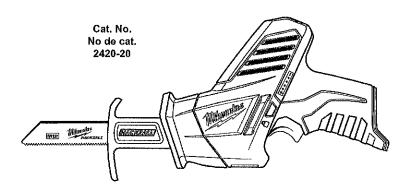
Hackzall



# OPERATOR'S MANUAL MANUEL de L'UTILISATEUR MANUAL del OPERADOR



# M12™ CORDLESS HACKZALL® RECIPROCATING SAW SCIE ALTERNATIVE HACKZALL® M12™ SIERRA ALTERNATIVA HACKZALL® DE M12™

TO REDUCE THE RISK OF INJURY, USER MUST READ AND UNDERSTAND OPERATOR'S MANUAL.

AFIN DE RÉDUIRE LE RISQUE DE BLESSURES, L'UTILISATEUR DOIT LIRE ET BIEN COMPRENDRE LE MANUEL DE L'UTILISATEUR.

PARA REDUCIR EL RIESGO DE LESIONES, EL USUARIO DEBE LEER Y ENTENDER EL MANUAL DEL OPERADOR.

# GENERAL POWER TOOL SAFETY WARNINGS

WARNING READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.
The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

# WORK AREA SAFETY

•Keep work area clean and well lit. Cluttered or

•Keep work area clean and well lit. Cluttered or dark areas invite accidents.
Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
•Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

# ELECTRICAL SAFETY

Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Do not expose power tools to rain or wet condi-tions. Water entering a power tool will increase the risk of electric shock.

the risk of electric shock.

Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or enlangled cords increase the risk of electric shock.

 - When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

of electric shock.

If operating a power tool in a damp location
is unavoidable, use a residual current device
(RCD) protected supply. Use of an RCD reduces
the risk of electric shock.

# PERSONAL SAFETY

\*Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the Influence of drugs, alcohol or medication. A moment of inattention while operating power tools

may result in serious personal injury.

Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

will reduce personal injuries.

Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may

result in personal injury.

Do not overreach. Keep proper footing and balance at all times. This enables better control

of the power tool in unexpected situations.

Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

If devices are provided for the connection of

dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards. Do not force the power tool. Use the correct

# POWER TOOL USE AND CARE

power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

Do not use the power tool if the switch does not

turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

be repaired.

-Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

-Store Idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are denoerous in the

the power tool. Power tools are dangerous in the hands of untrained users.

Maintain power tools. Check for misalignment

•Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
•Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

are less likely to bind and are easier to control.

-Use the power tool, accessories and tool bits
etc., in accordance with these instructions,
taking into account the working conditions and
the work to be performed. Use of the power tool
for operations different from those intended could
result in a hazardous situation.

# BATTERY TOOL USE AND CARE

result in a hazardous situation.

Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.

when used with another battery pack.

Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.

When battery pack is not in use, keep it away from other metal objects like paper clips,

coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals

terminat of another. Shorting the battery terminals together may cause burns or a fire.

\*Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or hums.

## SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

# SPECIFIC SAFETY RULES

 Hold power tool by insulated gripping sur-faces, when performing an operation where the cutting accessory may contact hidden wiring. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live"

and could give the operator an electric shock.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control. Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.
•WAF S

Some dust created by power sanding, iding, drilling, and other construction ontains chemicals known to cause sav act cance., arth defects or other reproductive harm. Some examples of these chemicals are: lead from lead-based paint

crystalline silica from bricks and cement and other

masonry products, and arsenic and chromium from chemically-treated

arsenic and chromium memoration, lumber.
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SYMBOLOGY		
V	Voits	
===	Direct Current	
n <sub>o</sub> <u>xxxx</u> min.¹	No Load Strokes per Minute (SPM)	
c <b>(Ų)</b> ∪s	Underwriters Laboratories, Inc. United States and Canada	

SPECIFICATIONS			
Cat. No.	Volts DC	No Load Strokes Per Minute	Length of Stroke
2420-20	12	0 - 3000	1/2"

# FUNCTIONAL DESCRIPTION (3) 1. Shoe 1. Snoe 2. Quik-Lok™ blade clamp 6 3. Fuel Gauge 4. Handle 6. Trigger lock (4) 5. Triager

# **ASSEMBLY**

AWARNING Recharge only with the charger specified for the battery. For specific charging instructions, read the operator's manual supplied with your charger and bat-

Inserting/Removing the Battery
To remove the battery, push in the release buttons
and pull the battery pack away from the tool.

To insert the battery, slide the pack into the body of the tool. Make sure it latches securely into place.

**MARNING** Always remove battery pack before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

Selecting a Blade

The Quik-Lok® Blade Clamp can be used with all 1/2" shank universal Hackzall® and Sawzall® blades. Use MILWAUKEE blades for best perforblades. Use MILWAIAE blades for best perior-mance. When selecting a blade, choose the right type and length, Many types of blades are available for a variety of applications: cutting metal, wood, nail-embedded wood, scroll cutting, roughing-in, and contours.

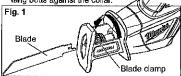
and concours. Many lengths are also available. Choose a length long enough to extend beyond the shoe and your work throughout the stroke, Do not use blades less than 3-1/2" long since they won't extend beyond the shoe throughout the stroke.

For best performance and longest life, see your MILWAUKEE Electric Tool catalog or go online to www.milwaukeetool.com to select the best blade for the job.

installing and Removing Blades from the Quik-

Lok® Blade Clamp
Remove battery pack before changing blades.
Make sure the spindle and blade clamp areas are
clean. Metal chips and sawdust may prevent the
Quik-Lok® Blade Clamp from clamping securely.

 Depending on the job, the blade may be inserted with the teeth facing up or down. To install a blade, twist collar in the direction of the arrow while inserting the blade into the clamp until the tang butts against the collar.



Release collar and the spring loaded mechanism will clamp the blade firmly in place.
 Twist collar in the opposite direction of the arrow to ensure that the blade is locked into the

4. Tug on blade to make sure it is securely locked

in place.

5. To remove a blade, twist collar in the direction of the arrow white pulling on the blade. Be careful when handling hot blades.

Quik-Lok<sup>e</sup> Blade Clamp Maintenance

Periodically clean dust and debris from the Quik-Lok® Blade Clamp with dry compressed air.

If the collar resists twisting, twist the collar back and forth to shake debris loose.
Periodically lubricate Qulk-Lok® Blade Clamp with

a dry lubricant such as graphite.

Removing broken blades from the Quik-Lok® Blade Clamp Broken blades can be removed by the following:

Broken blades can be removed by the following:
Remove battery pack before removing blades.
Point the tool downward, twist the collar, and shake the tool up and down (DO NOT turn the tool on while your fingers are holding the blade clamp open). The shank of the broken blade should drop out of the clamp.
If shaking the tool doesn't work - In most cases, a corner of the broken blade will extend beyond the blade clamp. Twist the collar and pull the broken blade out of the clamp by this corner.
If the broken stub doesn't extend far enough to be grabbed by its corner, see a thin blade with small teeth (such as a metal cutting blade) to hook the blade that is jammed in the clamp while twisting the collar and pull it out.

WARNING To reduce the risk of injury, be sure the blade always extends beyond the shoe and workpiece throughout the stroke. Blades may shatter If they impact the workpiece or shoe (Fig. 2).



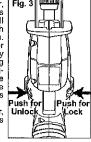
## **OPERATION**

**WARNING** Always remove battery pack before changing or removing acces-sories. Only use accessories specifically recommended for this tool. Others may be hazardous.

**WARNING** To reduce the risk of injury, wear safety goggles or glasses with side shields.

Trigger Lock
To lock I the trigger, push the trigger lock as shown. The trigger will not work while the switch is in the locked position. Always lock the trigger and remove the battery pack before performing maintenance and chang-ing accessories. Lock the trigger when storing the tool and when the tool is not in use.

To unlock the trigger, push the trigger lock as



Fuel Gauge
To determine the amount of charge left in the battery, pull the trigger. The Fuel Gauge will light up for 3 seconds

To signal the end of charge, 1 light on the fuel gauge will flash for 2-3 seconds.

**WARNING** Do not touch blade immediately after use. Blade will be hot.

Starting, Stopping and Controlling Speed To start the tool, grasp the handle firmly and pull the trigger. An LED is turned on when the trigger is pulled.

is pulled.

To vary the speed, increase or decrease the pressure on the trigger. The further the trigger is pulled, the greater the speed.

the greater the speed.

To stop the tool, release the trigger. Make sure the blade comes to a complete stop before removing the blade from a partial cut or laying the tool down.

General Cutting

General Cutting
For straight or contour cutting from an edge, line
the blade up with your cutting line. Before the blade
contacts the workpiece, grasp the handle firmly
and pull the trigger. Then guide the tool along your
cutting line. Always hold the shoe flat against the
workpiece to avoid excessive vibration.

Cutting Metals
Begin cutting at a slow speed, gradually increasing speed as you cut. When cutting into metals or hard materials that can not be cut from an edge, drill a starting hole larger than the widest part of

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WARNING To reduce the risk of explo sion, electric shock and property damage, always check the work area for hidden gas pipes, electrical wires or water pipes when making blind or plunge cuts.

Plunge Cutting Your MILWAUKEE Hackzall® is ideal for plunge cut-ting directly into surfaces that can not be cut from

an edge, such as walls or floors. Do not plunge cut into metal surfaces (see

"Cutting Metals").

1. Insert the blade into the tool with the teeth facing down. Hold the tool as shown, resting the edge of the shoe on the workpiece.

2. With the blade just

above the workpiece, pull the trigger. Using the edge of the shoe as a pivot, lower the blade into the workpiece as 3 As the blade starts cut-

ting, raise the handle of the tool slowly until the shoe rests firmly on the rce. Then guide long your cuto acquire the



# MAINTENANCE

**A** WARNING To reduce the risk of injury, always unplug the charger and remove the battery pack from the charger or tool before performing any maintenance. Never disas-semble the tool, battery pack or charger. Contact a MILWAUKEE service facility for ALL repairs.

**Maintaining Tool** 

Maintaining 1001
Keep your fool, battery pack and charger in good repair by adopting a regular maintenance program. After six months to one year, depending on use, return the tool, battery pack and charger to A MILWAUKEE service facility for:

Lubrication

- Mechanical inspection and cleaning (gears, spindles, bearings, housing, etc.)
  Electrical inspection (battery pack, charger,
- motor)
   Testing to assure proper mechanical and electrical

operation if the tool does not start or operate at full power with a fully charged battery pack, clean the contacts on the battery pack. If the tool still does not work properly, return the tool, charger and battery pack, to a MILWAUKEE service facility for repairs.

**AWARNING** To reduce the risk of personal injury and damage, never immerse your tool, battery pack or charger in liquid or allow a liquid to flow inside them.

Clean dust and debris from charger and tool vents. Clean dust and debris from charger and tool vents. Keep tool handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean the tool, battery pack and charger since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and house-hold detergents containing ammonia. Never use flamposite or complicitible solvents, arrund tools. flammable or combustible solvents around tools.

Repairs

For repairs, return the tool, battery pack and charger to the nearest service center.

# **ACCESSORIES**

MARNING Always remove battery pack before changing or removing accessories Only use accessories specifically recommend ed for this tool. Others may be hazardous.

For a complete listing of accessories refer to your MILWAUKEE Electric Tool catalog or go online to www.milwaukeetool.com. To obtain a catalog, contact your local distributor or service center.

## LIMITED WARRANTY - USA AND CANADA

Every MiLWAUKEE power tool (Including cordless product — tool, battery pack(s) - see separate & distinct CORDLESS BATTERY PACK LIMITED WARRANTY \* USA AND CANADA

Every MiLWAUKEE power tool (Including cordless product — tool, battery pack(s) - see separate & distinct CORDLESS BATTERY PACK LIMITED WARRANTY statements & battery charger and Work Lights\*) Is warranted to the original purchaser only to be free from defects in material and workmanship. Subject to certain exceptions, MILWAUKEE will repair or replace any part on an electric power tool which, after examination, is determined by MILWAUKEE tool defective in material or workmanship for a period of five (5) years\* after the location or MILWAUKEE authorized Service Station, freight prepaid and insured, is required. A copy of the proof of purchase should be included with the return product. This warranty does not apply to damage that MILWAUKEE determines to be from repairs made or attempted by anyone other than MILWAUKEE authorized personnel, misuse, alterations, abuse, normal wear and tear, lack of maintenance, or accidents.

\*The warranty period for, Job Site Radios, M12™ Power Port, M18™ Power Source, and Trade Titan™ Industrial Work Carts is one (1) year from the date of purchase. The warranty period for a LED Work Light and LED Upgrade Bulb is a limited LIFETIME warranty to the original purchaser only, if during normal use the LED bulb fails the Work Light or Upgrade Bulb will be replaced free of charge.

\*This warranty does not cover Air Nallers & Stapler, Alress Paint Sprayer, Cordiess Battery Packs, Gasoline Driven Portable Power Generators, Hand Tools, Hoist – Electric, Lever & Hand Chain, M12™ Heated Jackets, Reconditioned product and Test & Measurement products. There are separate and distinct warranties available for these products will be used to determine the warranty period if no proof of purchase is provided at the time warranty service is requested.

Warranty Registration is not necessary to obtain the applicable warranty period if no proof of purchase is provided at the time warranty service is requested.

ACCEPTANCE OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE CONTRACT FOR THE PURCHASE OF EVERY MILWAUKEE PRODUCT. IF YOU DO NOT AGREE TO THIS CONDITION, YOU SHOULD NOT PURCHASE THE PRODUCT. IN NO EVENT SHALL MILAUKEE ELIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS, SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL. TO THE EXTENT PERMITTED BY LAW, MILWAUKEE DISCLAIMS ANY IMPLIED WARRANTIES, OR DAMAGE TO, THE EXTENT SUCH DISCLAIMS ANY IMPLIED WARRANTIES, OR DAMAGE TO, THE EXTENT SUCH DISCLAIMS AND TERMITTED BY LAW, SUCH PARTICULAR USE OR PURPOSE; TO THE EXTENT SUCH DISCLAIMS ANY IMPLIED WARRANTIES AND EXCRIBED ABOVE. SOME STATES DO NOTALLOW LIMITATIONS ON HOW LONG AN IMPLED WARRANTY AS DESCRIBED ABOVE. SOME STATES DO NOTALLOW LIMITATIONS ON HOW LONG AN IMPLED WARRANTY GIVES YOUR SHEED WARRA

# LIMITED WARRANTY - MEXICO, CENTRAL AMERICA AND CARIBBEAN

LIMITEU WARKANTY - MEXICO, CENTRAL AMERICA AND CARBBEAN

TECHTRONIC INDUSTRIES' warranty is for 5 year since the original purchase date.

This warranty valid, present this warranty card, sealed/stamped by the distributor or store where you purchased the product, to the Authorized Service Center (ASC). Or, if this card has not been sealed/stamped, present the original proof of purchase to the ASC.

Call toll-free 1 800 832 1949 to find the nearest ASC, for service, parts, accessories or components.

Procedure to make this warranty valid

Take the product, to the ASC, along with the warranty card sealed/stamped by the distributor or store where you purchased the product, and there any faulty piece or component will be replaced without cost for you. We will cover all freight costs relative with this warranty process.

Excentions

Treign: costs relative with this watering process.

Exceptions:
This warrantly is not valid in the following situations:
a) When the product is used in a different manners from the end-user guide or instruction manual.
b) When the conditions of use are not normal.
c) When the product was modified or repaired by people not authorized by TECHTRONIC INDUSTRIES.
Note: If cord set is damaged, it should be replaced by an Authorized Service Center to avoid electric risks.

Date of Purchase: Distributor or Store Stamp:

SERVICE AND ATTENTION CENTER AV Presidente Mazarik 29 Piso 7, 11570 Chapultopec Morales Miguel Hidalgo, Distrito Federal, Mexico Ph. 52 55 4160-3547

IMPORTED AND COMMERCIALIZED BY: TECHTRONIC INDUSTRIES MEXICO, S.A. DE C.V. AV Presidente Mazarik 29 Piso 7, 11570 Chapultepec Morales Miguel Hidalgo, Distrito Federal, Mexico

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# UNITED STATES MILWAUKEE Service

MILWAUKEE Service

MILWAUKEE pides itself in producing a premium quality product that is Normins Bur Heavy Dury®. Your salisfaction with our products is very important to usf if you encounter any problems with the operation of this tool, or you would like to locate the factory Service/Sales Support Branch or authorized service station nearest you, please call... Additionally, we have a nationwide network of authorized Distributors ready to assist you with your tool and accessory needs. Check your "Yellow Pages" phone directory under "Tools-Electric" for the names & addresses of those nearest you or see the "Where To Buy's section of our website.

1-800-SAWDUST (1.800.729.3878) Monday-Friday 7:00 AM - 6:30 PM Central Time

or visit our website at www.milwaukeetool.com

For service information, use the 'Service Center Search' icon found in the 'Parts & Service' section.

Contact our Corporate After Sales Service Technical Support about ... •Technical Questions

·Service/Repair Questions

 Warranty call: 1-800-SAWDUST fax: 1.800.638.9582

email:metproductsupport@milwaukeetool.com

# Register your tool online at

- www.milwaukeetool.com and...
  receive important notifications regarding
- your purchase ensure that your tool is protected under the
- warranty
- become a Heavy Duty club member

# CANADA - Service MILWAUKEE

MILWAUKEE prides itself in producing a premium quality product that is Normine But Heavy Duty®, Your satisfaction with our products is very important to us!

If you encounter any problems with the operation of this tool, or you would like to locate the factory Service/Sales Support Branch or authorized ser-vice station nearest you, please call...

1.800.268.4015 Monday – Friday 7:00 – 4:30 CST fax: 866.285.9049

Milwaukee Electric Tool (Canada) Ltd 140 Fernstaff Court, Unit 4 18129 111 Avenue NW Vaughan, ON L4K 3L8 Edmonton, AB T5S 2P2

Additionally, we have a nationwide network of authorized Distributors ready to assist you with your tool and accessory needs. Call 1.800.268.4015 to find the names and addresses of the closest re-tailers or consult "Where to buy" on our Web site www.milwaukeetool.com

MILWAUKEE est fier de proposer un produit de première qualité Nothine But Heavy Duty®, Votre satisfaction est ce qui compte le plust

En cas de problèmes d'utilisation de l'outil ou pour localiser le centre de service/ventes ou le centre d'entretien le plus proche, appelez le...

1.800.268.4015 Lundi - Vendredi 7:00 - 4:30 CST fax: 866.285.9049

Milwaukee Electric Tool (Canada) Ltd 40 Fernstaff Court, Unit 4 18129 111 Avenue NW Vaughan, ON L4K 3L8 Edmonton, AB T5S 2P2 Notre réseau national de distributeurs agréés se tient à votre disposition pour fournir l'aide technique, l'outillage et les accessoires nécessaires. Composez le 1.800.268.4015 pour obtenir les noms et adresses des revendeurs les plus proches ou bien consultez la section «Qu'achetar» sur notre

# site web à l'adresse www.mllwaukeetool.com MEXICO - Soporte de Servicio MILWAUKEE

CENTRO DE ATENCIÓN A CLIENTES Av Presidente Mazarik 29 Plso 7 11570 Chapultepec Morales Miguel Hidalgo, Distrito Federal, Mexico Telefono 52 55 4160-3547

e-mail: servicio@ttigroupna.com

Adicionalmente, tenemos una red nacional de distribuidores autorizados listos para ayudarle con su herramienta y sus accesorlos. Por favor, llame al 01 800 832 1949 para obtener los nombres y direcciones de los más cercanos a usted, o consulte la sección 'Where to buy' (Dénde comprar) de nuestro sitio web en www.ttigroupmexico.com

Registre su herramienta en línea, en www.ttigroupmexico.com y...

- · reciba importantes avisos sobre su compra
- asegúrese de que su herramienta esté protegida por la garantía

· conviértase en integrante de Heavy Duty

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