

ENGLISH
ESPAÑOL



TRUPER®

Manual

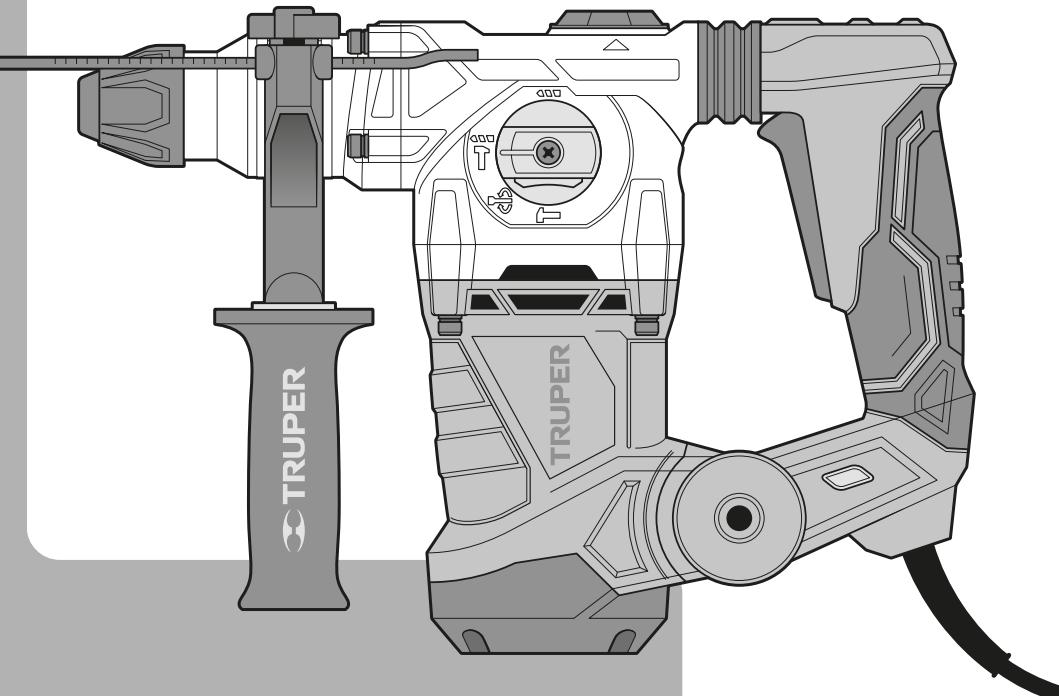
SDS Plus Rotary Hammer

6 Joules

Impact Energy

7.2 A

Motor



ROEL-60N-2

Applies for:

Code Model

100372 ROEL-60N-2



Read this manual thoroughly
before using the tool.



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CAUTION

To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.

Use and care recomendations



 **DO NOT CHANGE THE SELECTOR WHILE THE MACHINE IS WORKING.**



 **CLEAN AFTER EACH USE TO REMOVE EXCESS OF DUST.**



 **FULFILL THE WORKING CYCLES.**
50 min of work and 20 min of rest. Daily maximum 6 hours.



 Perform periodic **MAINTENANCE** to your machine (page 9).

ROEL-60N-2

Code	•	100372
Description	•	SDS Plus Rotary Hammer
Chuck	•	SDS Plus
Voltage	•	220 V~ - 240 V~
Frequency	•	50 Hz
Current	•	7.2 A
Power	•	2 Hp
Impact Energy	•	6 Joules
Drilling Capacity	•	Concrete: 1-1/4" Metal: 1/2" Wood: 1-9/16"
Speed	•	Drill: n ₀ : 850 RPM Hammer Drill: 4780 impact/min
Work Cycle	•	50 minutes' work per 20 minutes idle. Maximum 6 hours per day.
Conductors	•	H07RN-F x 2C
Insulation	•	Class II
		IP Grade • IPX0

Power cord grips used in this product: Type "Y".

Build quality: Reinforced Insulation

Thermal insulation on motor winding: Class H

WARNING Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a **TRUPER**® Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not expose to rain, liquids and/or dampness.

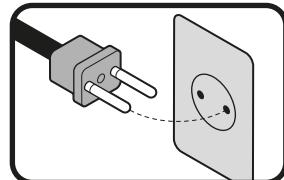
WARNING Before gaining access to the terminals all power sources should be disconnected.



Power Requirements

WARNING Tools with double insulation and reinforced insulation eliminate the need of a grounded power cord with three prongs or a grounded power connection.

WARNING When using an extension cable, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.



Ampere Capacity	Number of Conductors	Extension gauge	
		from 5.9' to 49.2'	higher than 49.2'
from 0 A and up to 10 A		18 AWG(*)	16 AWG
from 10 A and up to 13 A		16 AWG	14 AWG
from 13 A and up to 15 A	3 (one grounded)	14 AWG	12 AWG
from 15 A and up to 20 A		8 AWG	6 AWG

* It is safe to use only if the extensions have a built-in artifact for over current protection.

AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

General power tool safety warnings

⚠️ WARNING! Read carefully all safety warnings and instructions listed below. Failure to comply with any of these warnings may result in electric shock, fire and / or severe damage. **Save all warnings and instructions for future references.**

Work area

Keep your work area clean, and well lit.

Cluttered and dark areas may cause accidents.



Never use the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.

Sparks generated by power tools may ignite the flammable material.



Keep children and bystanders at a safe distance while operating the tool.

Distractions may cause loss of control.



Electrical Safety

The tool plug must match the power outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools.



Modified plugs and different power outlets increase the risk of electric shock.

Avoid body contact with grounded surfaces, such as pipes, radiators, electric ranges and refrigerators.

The risk of electric shock increases if your body is grounded.

Do not expose the tool to rain or wet conditions.

Water entering into the tool increases the risk of electric shock.

Do not force the cord. Never use the cord to carry, lift or unplug the tool. Keep the cord away from heat, oil, sharp edges or moving parts.

Damaged or entangled cords increase the risk of electric shock.

When operating a tool outdoors, use an extension cord suitable for outdoor use.

Using an adequate outdoor extension cord reduces the risk of electric shock.

If operating the tool in a damp location cannot be avoided, use a ground fault circuit interrupter (GFCI) protected supply.

Using a GFCI reduces the risk of electric shock.

Personal safety

Stay alert, watch what you are doing and use common sense when operating a tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

A moment of distraction while operating the tool may result in personal injury.

Use personal protective equipment. Always wear eye protection.

Protective equipment such as safety glasses, anti-dust mask, non-skid shoes, hard hats and hearing protection used in the right conditions significantly reduce personal injury.



Prevent unintentional starting up. Ensure the switch is in the "OFF" position before connecting into the power source and / or battery as well as when carrying the tool.

Transporting power tools with the finger on the switch or connecting power tools with the switch in the "ON" position may cause accidents.

Remove any wrench or vice before turning the power tool on.

Wrenches or vices left attached to rotating parts of the tool may result in personal injury.



Do not overreach. Keep proper footing and balance at all times.

This enables a better control on the tool during unexpected situations.



Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothes and gloves away from the moving parts.

Loose clothes or long hair may get caught in moving parts.

If you have dust extraction and recollection devices connected onto the tool, inspect their connections and use them correctly.

Using these devices reduce dust-related risks.



Power Tools Use and Care

Do not force the tool. Use the adequate tool for your application.

The correct tool delivers a better and safer job at the rate for which it was designed.

Do not use the tool if the switch is not working properly.

Any power tool that cannot be turned ON or OFF is dangerous and should be repaired before operating.



Disconnect the tool from the power source and / or battery before making any adjustments, changing accessories or storing.

These measures reduce the risk of accidentally starting the tool.



Store tools out of the reach of children. Do not allow persons that are not familiar with the tool or its instructions to operate the tool.

Power tools are dangerous in the hands of untrained users.



Service the tool. Check the mobile parts are not misaligned or stuck. There should not be broken parts or other conditions that may affect its operation. Repair any damage before using the tool.

Most accidents are caused due to poor maintenance to the tools.



Keep the cutting accessories sharp and clean.

Cutting accessories in good working conditions are less likely to bind and are easier to control.



Use the tool, components and accessories in accordance with these instructions and the projected way to use it for the type of tool when in adequate working conditions.

Using the tool for applications different from those it was designed for, could result in a hazardous situation.

Service

Repair the tool in a  TRUPER® Authorized Service Center using only identical spare parts.

This will ensure that the safety of the power tool is maintained.



Accordance
European

Safety warnings for Drills and Hammer Drills



Choose the right bit

- CAUTION** • Choose the right bit for the work piece. It reduces the risk of severe injury and makes the job easier.
- To drill concrete or stone, use bits specifically designed for concrete.
 - To work on metal or plastic, use bits suitable for metal. Sizes encompass a minimum of 0.03" (0.047" for a 0.5" chuck) and up to the chuck maximum capacity.
 - On wood, use regular bits suitable for wood. In any case, to drill 0.25" or smaller orifices, use bits designed to drill on metal.
 - Do not try using bits exceeding the chuck capacity.



While operating the hammer drill

- Use the auxiliary handles, if supplied with the tool. Loss of control may result in personal injury.
- Hold the tool by the isolated parts. The cutting part of bit could come into contact with hidden wiring or with its own power cord. Making contact with a power cord causes the tool metal parts get electrified and may result in electric shock to the user.
- Do not force the tool to excessive workloads.

CAUTION • Turn off the hammer drill immediately if the bit gets stuck into de work piece. Then, remove the bit off the work piece. Do not try removing stuck bits turning on and off the tool.

- Do not apply too much force on the tool in order to accelerate the drilling procedure. The bit could get damaged and the tool would loose efficiency and useful life.

WARNING • A large diameter bit causes a higher reactive force leading to losing control over the tool. To avoid this possibility, firmly hold the tool with both hands and keep balanced footing. Drill at 90°

- Be prepared to relax the drilling force when the bit goes through the material. Sudden movements could break the bit or damage the hammer drill.

CAUTION • Do not touch the bit or the orifices immediately after drilling. Wait until they cool down to handle them. Do not try to cool them down using water or oil.

- Immediately after using do not set the tool where there are particles and / or dust. They can be absorbed into the tool mechanism and cause damage.



- Use earplugs when the noise is higher than 85 dB. Exposure to noise can cause hearing loss.



- Use dust mask and dust extractor if necessary. Remember that materials such as asbestos, paint with lead, additives, some types of wood, metals or minerals are highly toxic.



- Use safety glasses.

Before using the hammer drill

- Before starting to work with the hammer drill, take a few minutes to assess the job to be done and double-check all the safety caution rules.

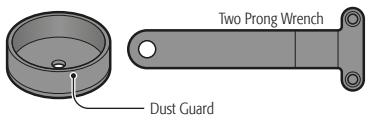
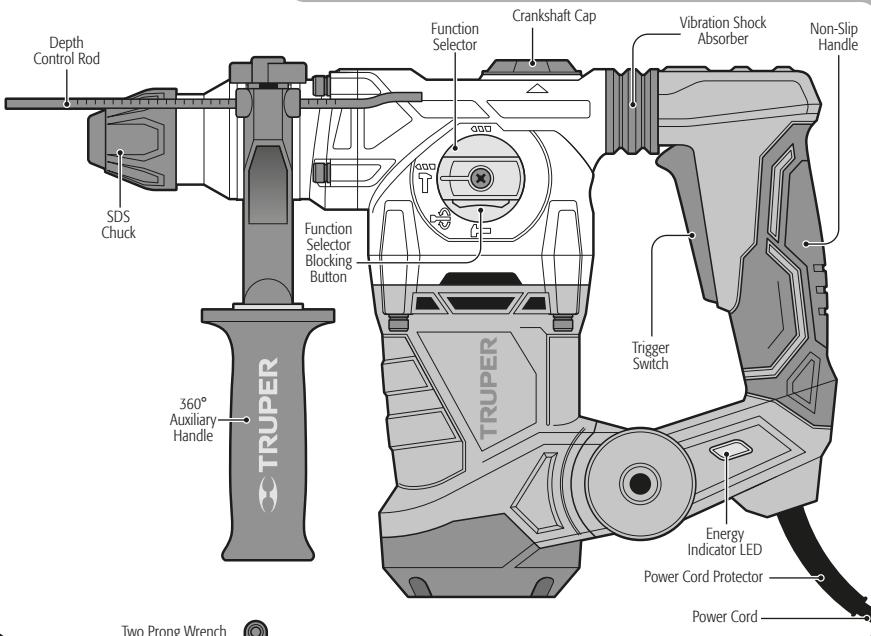
WARNING • Fit the bit into the chuck. Remove the chuck wrench before drilling. Failure to follow this instruction shoots out the chuck wrench with great speed and cause severe injury.



DANGER • Before drilling walls, floors or ceiling, look for any built-in objects, like power cables and conductors or pipes.

DANGER • Verify the switch is in the OFF position before connecting the hammer drill. Otherwise, it can unexpectedly start operating and could cause sever injuries.

CAUTION • Turn off and disconnect the tool before reversing the chuck's direction as well as fitting or replacing bits.



Assembly

1. Turn the auxiliary handle in a clockwise direction while is released so that the mount opening can pass freely on top of the chuck.

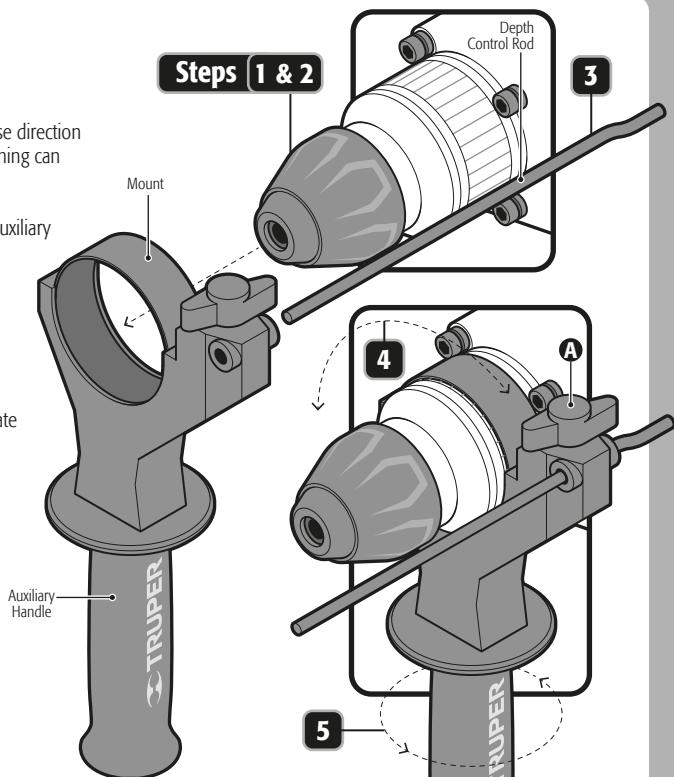
2. Insert the hammer drill through the auxiliary handle mount.

3. Press the lock (A) to insert the depth control rod in the hexagonal mount orifice.

4. Rotate the auxiliary handle together with the mount until set into the adequate position to operate the tool.

5. Turn the auxiliary handle to fix the mount firmly to the hammer drill head.

- To adjust the depth control rod press lock (A), move the rod to the desired position and release the lock.



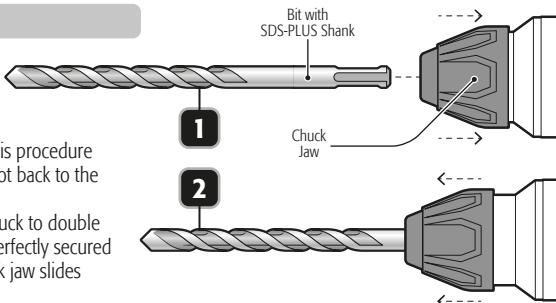
Start Up

 TRUPER®

Bit and Accessory Installation

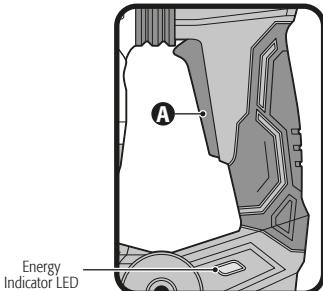
- Clean and lubricate lightly the bit and / or accessory before installing.
- Push the chuck jaw back while inserting the bit and / or accessory until stopping.
- Release the chuck jaw to set it in the original position. This procedure will secure the bit and / or accessory. If the chuck jaw is not back to the original position repeat the former step.
- Try to release the bit and / or accessory from the SDS chuck to double check the bit and / or accessory are perfectly secured. A perfectly secured bit and / or accessory cannot be removed unless the chuck jaw slides back simultaneously.

WARNING Do not try to install or remove bits and / or accessories unless the tool is disconnected.



Turning ON and Operation Control

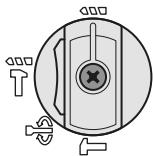
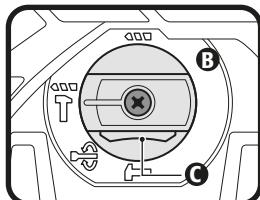
- Operation:
Connect the plug into the power supply and the LED indicator will light up confirming the tool is energized.
Press the trigger switch (A) to start the hammer Drill.
To stop the use, just release the switch.
- High speed is recommended for impact drilling and chiseling works on stone or concrete.
- Medium speed is recommended to drill on metal.
- Low speed is recommended to start orifices, to prevent the bit from sliding and chipping the orifice. Such is the case with tiles.



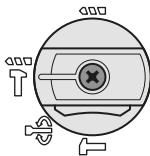
Changing the Operation Mode

- Turn both function selectors (C) and turn the function selector (B) into one of the 4 positions depending what is the job to carry out. Listen to a click to make sure the selector is correctly set.

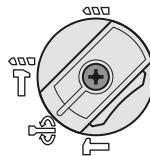
WARNING Never change the position in the function selectors when the hammer drill motor is running.



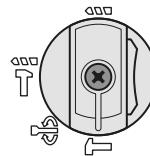
Drill



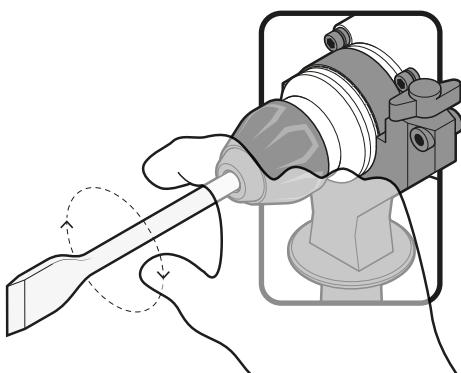
Hammer Drill



Chisel + Free mode adjustable angle
can turn the chisel in any position



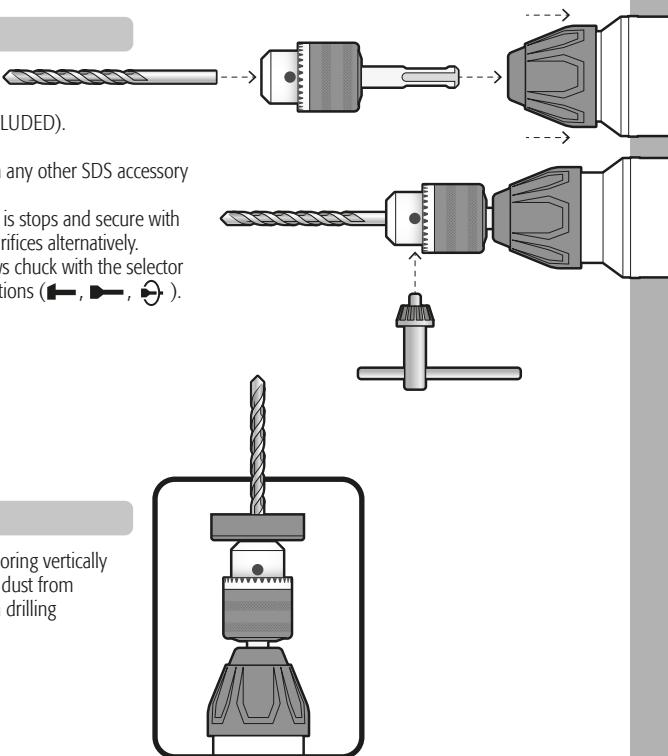
Chiseling



Drill with no impact

Metal, wood or plastic can be drilled with the tool using drill / accessory bit three jaws chuck with an SDS adapter (NOT INCLUDED).

- To install the three jaws chuck, go as with any other SDS accessory (page 7, drill / accessory Installation).
 - Set the bit into the three jaws chuck until it stops and secure with the chuck key tightening each one of the orifices alternatively.
- ⚠ WARNING** Never use the three jaws chuck with the selector in the operation mode in the IMPACT positions (◀, ▶, ⚡).



Use of the Dust Guard

- Slide the dust guard over the bit before boring vertically over the head. The dust guard will prevent dust from falling over the tool and the operator when drilling

Overload Brake

The tool is built with an overload breaker that stops the axis force (causing a rattling sound) if the accessory gets stuck. If this happens:

- Turn off the tool immediately.
- Remove the stuck accessory.
- Turn On the tool.

Additional Information

- SDS accessories need freedom of movement inside the chuck. This causes eccentricity when the tool is unloaded. However, the accessory gets centered automatically during the operation with no affection the drilling precision.
- When the tool is new it requires 5 hours working to gain its maximum efficiency.
- When using the tool in the drill or hammer drill mode first, set the bit tip in the point where the orifice will be bored and then press the switch.

Cleaning and Care

- To guarantee adequate motor cooling, always keep slots clean and free of obstructions.
- Regularly inspect all the assembly screws. Double-check they are properly tighten. If any screw is loose screw it immediately.

Service

- Service should only be made in a **TRUPER®** Authorized Service Center. Service and maintenance performed by non-qualified people may be dangerous and can lead to personal injuries. It also makes the product Warranty void.

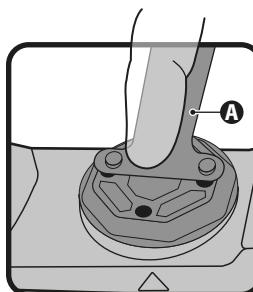
Lubrication

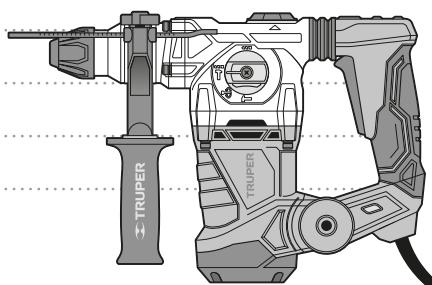
- There is no requirement to lubricate daily or each hour because it has a lubrication greasing system.
- It is required that the tool transmission be lubricated each carbon brush replacement in a **TRUPER®** Authorized Service Center
- However, the user shall add Lithium Complex Grease, ISO 220 Viscosity, NLGI Grade #2 (for more information about the type of grease to use, please contact a Truper Authorized Service Center) every 2 to 3 days, and everyday if the load is heavy or when the impact seems to be weak. Only in this case proceed as follows:
 1. Turn ON the tool a couple of minutes to warm it.
 2. Unplug the tool.
 3. Remove the crankshaft with the two-prong wrench (**A**).
 4. Set the tool onto a table with the chuck side facing up. This makes the old grease accumulate inside the cover.
 5. Clean the old grease from inside and replace with fresh grease (0.05 lb - 0.06 lb). If filling with more than the specified amount it can cause defects. Fill only the specified amount.
 6. Set back the crankshaft cap and tighten with the two-prong wrench. (Do not tighten excessively the crankshaft cap because it may break).

To assure safety and Warranty of the product, repairs and any other maintenance shall be carried out in a **TRUPER®** Authorized Service Center.

Carbon Brush Replacement

- Carbon brushes shall be checked periodically and replaced always in a **TRUPER®** Authorized Service Center.
- When replaced, ask the technician to inspect if the new carbon brushes move freely in the carbon brush housing. Ask to turn on the tool during five minutes to make the contact in the carbon brushes and the commutator even.
- Use only original **TRUPER®** spare carbon brushes, designed specifically with the right strength and electric resistance for each type of motor. Carbon brushes with different specifications may damage the motor.
- When replacing carbon brushes, always change bot.





Authorized Service Centers



In the event of any problem contacting a Truper Authorized Service Center, please see our webpage www.truper.com to get an updated list, or call our toll-free numbers **800 690-6990** or **800 018-7873** to get information about the nearest Service Center.

AGUASCALIENTES	DE TODO PARA LA CONSTRUCCIÓN GRAL. BARRAGÁN #1201, COL. GREMIAL, C.P. 20030, AGUASCALIENTES, AGS. TEL.: 449 994 0557	MORELOS	FIX FERRETERÍAS CAPITAN ANZURES #95, ESQ. JOSÉ PERDIZ, COL. CENTRO, C.P. 62740, CUAUTLA, MOR. TEL.: 735 352 8931
BAJA CALIFORNIA	SUCRASAL TIJUANA AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL PUEBLO II, C.P. 22244, TIJUANA, B.C. TEL.: 664 969 5100	NAYARIT	HERRAMIENTAS DE TEPIC MAZATLÁN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY. TEL.: 311 258 0540
BAJA CALIFORNIA SUR	FIX FERRETERÍAS FELIPE ÁNGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S. TEL.: 613 132 1115	NUEVO LEÓN	SUCRASAL MONTERREY CARRETERA LAREDO #300, 1B MONTERREY PARKS, COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO, NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790
CAMPECHE	TORNILLERÍA Y FERRETERÍA AAA AV. ALVARO OBREGÓN #524, COL. ESPERANZA C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808	OAXACA	FIX FERRETERÍAS AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300, TUXTEPEC, OAX. TEL.: 287 106 3092
CHIAPAS	FIX FERRETERÍAS AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700, TAPACHULA, CHIS. TEL.: 962 118 4083	PUEBLA	SUCRASAL PUEBLA AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA, C.P. 72710, CUATLACINGO, PUE. TEL.: 222 282 8282 / 84 / 85 / 86
CHIHUAHUA	SUCRASAL CHIHUAHUA AV. SILVESTRE TERRAZAS #12-111, PARQUE INDUSTRIAL BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415, CHIHUAHUA, CHIH. TEL. 614 434 0052	QUERÉTARO	ARU HERRAMIENTAS S.A DE C.V. AV. PUERTO DE VERACRUZ #110, COL. RANCHO DE ENMEDIO, C.P. 76842, SAN JUAN DEL RÍO, QRO. TEL.: 427 268 4544
MÉXICO CITY	FIX FERRETERÍAS EL MONSTRUO DE CORREDOR, CORREDOR # 22, COL. CENTRO, C.P. 06060, CUAUHTÉMOC, CDMX. TEL: 55 5522 5031 / 5522 4861	QUINTANA ROO	FIX FERRETERÍAS CARRETERA FEDERAL MZ. 46 LT. 3 LOCAL 2, COL EJIDAL, C.P. 77710 PLAYA DEL CARMEN, Q.R. TEL.: 984 267 3140
COAHUILA	SUCRASAL TORREÓN CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL ORIENTE, C.P. 27278, TORREÓN, COAH. TEL.: 871 209 6823	SAN LUIS POTOSÍ	FIX FERRETERÍAS AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320, SAN LUIS POTOSÍ, SLP. TEL: 444 822 4341
COLIMA	BOMBAS Y MOTORES BYMTESA DE MANZANILLO BLVD. MIGUEL DE LA MADRID #190, COL. 16 DE SEPTIEMBRE, C.P. 28239, MANZANILLO, COL. TEL.: 314 332 1986 / 332 2013	SINALOA	SUCRASAL CULIACÁN AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA MORA, C.P. 80143, CULIACÁN, SIN. TEL.: 667 173 9139 / 173 8400
DURANGO	TORNILLOS ÁGUILA, S.A. DE C.V. MAZURIÓ #200, COL. LUIS ECHEVERRÍA, DURANGO, DGO.TEL.: 618 817 1946 / 618 818 2844	SONORA	FIX FERRETERÍAS CALLE 5 DE FEBRERO #517, SUR LT. 25 MZ. 10, COL. CENTRO, C.P. 85000, CD. OBREGÓN, SON. TEL.: 644 413 2392
ESTADO DE MÉXICO	SUCRASAL CENTRO JILOTEPEC PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257 TEL: 761 782 9101 EXT. 5728 Y 5102	TABASCO	SUCRASAL VILLAHERMOSA CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL, 2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB. TEL.: 993 353 7244
GUANAJUATO	CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V. AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010, CELAYA, GTO. TEL.: 461 7578 / 79 / 80 / 88	TAMAULIPAS	VM ORINGS Y REFACCIONES CALLE ROSITA #527 ENTRE 20 DE NOVIEMBRE Y GRAL. RODRÍGUEZ, FRACC. REYNOSA, C.P. 88780, REYNOSA, TAMS. TEL.: 899 926 7552
GUERRERO	CENTRO DE SERVICIO ECLIPSE CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010, CHILPANCINGO, GRO. TEL.: 747 478 5793	TLAXCALA	SERVICIOS Y HERRAMIENTAS INDUSTRIALES PABLO SIDAR #132, COL. BARRIO DE SAN BARTOLOMÉ, C.P. 90970, SAN PABLO DEL MONTE, TLAX. TEL.: 222 271 7502
HIDALGO	FERREPRESOS S.A. DE C.V. LIBERTAD ORIENTE #304 LOCAL 30, INTERIOR DE PASAJE ROBLEDO, COL. CENTRO, C.P. 43600, TULANCINGO, HGO. TEL.: 775 753 6615 / 775 753 6616	VERACRUZ	LA CASA DISTRIBUIDORA TRUPER BLVD. PRIMAVERA ESQ. HORTENSIA S/N, COL. PRIMAVERA C.P. 93308, POZA RICA, VER. TEL.: 782 823 8100 / 826 8484
JALISCO	SUCRASAL GUADALAJARA AV. ADOLFO B. HORN # 6800, COL. SANTA CRUZ DEL VALLE, C.P. 45655, TLAJOMULCO DE ZUÑIGA, JAL. TEL.: 33 3606 5285 AL 90	YUCATÁN	SUCRASAL MÉRIDA CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y MULSAY, MPIO. UMÁN, C.P. 97390, MÉRIDA, YUC. TEL.: 999 912 2451
MICHOACÁN	FIX FERRETERÍAS AV. PASEO DE LA REPÚBLICA #3140-A, COL. EX-HACIENDA DE LA HUERCA, C.P. 58050, MORELIA, MICH. TEL.: 443 334 6858		

Code	Model	Brand
100372	ROEL-60N-2	 TRUPER®

This product is guaranteed for 3 years. To make the warranty valid or purchase parts and components you must present the product in Corregidora 22, Col. Centro, Alc. Cuauhtémoc, CDMX C.P. 06060 or at the establishment where you purchased it, or at any Truper® Service Center listed in the annex to the warranty policy and/or in www.truper.com. Transportation costs resulting from compliance of this warranty will be covered by .

For questions or comments, call **800-690-6990**. Made in China. Imported by Truper S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257

**3**
YEARS

Stamp of the business. Date of purchase:

**Poliza de
Garantía**

• TRUPER®



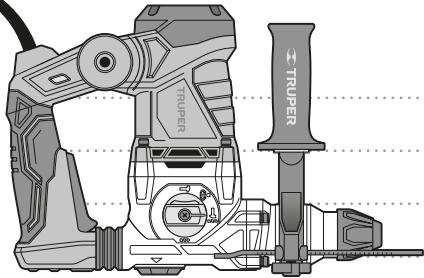
Sello del establecimiento comercial. Fecha de compra:

Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Mex. C.P. 54257
 Para dudas o comentarios, llame al 800-690-6990. Hecho en China. Importado por Truper S.A. de C.V. Parque
 industrial Jilotepec, Jilotepec, Edo. de Mex. C.P. 54257
 serie de garantía y/o en www.truper.com. Los gastos de transportación que resulten para su cumplimiento
 poliza de garantía se承担 por **TRUPER®**. Los envíos de los artículos en el anexo de la
 establecimiento donde lo compre, o en algún Centro de Servicio Truper® de los establecimientos en el anexo de la
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 se承担 por **TRUPER®**.

Código	Modelo	Marca	ROEL-60N-2	• TRUPER®
100372				

En caso de tener algún problema para contactar un Centro de Servicio Autorizado Truper®, consulte nuestra página www.truper.com donde podrá obtener la lista de actualizada, o llame al: **800 690-6990** ó **800 018-7873** donde le informaremos.

ACUASCALIENTES DE TODO PARA LA CONSTRUCCIÓN SUCURSAL TULUÁN TEL.: 664 969 5100 AV. LA ENCANTADA LOTE #5, PARRAUE INDUSTRIAL EL FLORIDO #11, C.P. 22244 TULUÁN, BC.	NARARÍT HEERRAMIENTAS DE TIPI TEL.: 735 352 8931 CAPITAN ANZURES #99, ESO. JOSE PEREZ, COL. MORELOS FIX FERRERIAS TEL.: 735 352 8940, CUAUTLA, MOR. CENTRO BARBARITA #101, COL. RIVADAIL, CP 20030, GUACASCALIENTES, AGS. TEL.: 499 940 0557	BALIA SUCURSAL TULUÁN TEL.: 664 969 5100 AV. LA ENCANTADA LOTE #5, PARRAUE INDUSTRIAL EL FLORIDO #11, C.P. 22244 TULUÁN, BC.
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Notas

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AutORIZADO TRUPER

Para mantener la seguridad y garantía del producto, se recomienda que las reparaciones y ajustes sean realizados por Centros de Servicio autorizados.

Cigüenal ya que esta sujeta a rotura).

- 6.** Instale nuevamente la tapa del gabinete y apriete con la llave de 2 puntas. (No apretar excesivamente la tapa del gabinete)

5. Limpiar la grasa vieja del interior y reemplazarla con una grasa que dure más de 120 días.

4. Desecharse la herramienta sobre la mesa con el extremo de la broca hacia arriba, esto permitirá que la grasa vieja se acumule dentro de la cuchilla.

3. Retire la tapa del cigüeñal con ayuda de la llave de desenchufe la herramienta.

- 1.** Encienda la herramienta durante varios minutos para calentarla.

cuando el efecto de impacto se considera débil. Solo en este caso procedía de la siguiente manera:

- Siempre que el usuario deba agregar grasa de compuesto de litio, viscosidad ISO 220, Grado NLGI #2 para el embague de la rueda.
 - Siempre que el usuario deba agregar grasa de compuesto de litio, viscosidad ISO 220, Grado NLGI #2 para el engranaje de la rueda.

Servicio Autorizado TRUPER.

lubricada cada cambio de carbones en un Centro de

- Esta heramienta no requiere lubricacion diaria o por hora porque tiene un sistema de lubrificacion engrasado.
 - Se recomienda que la transmision de la herramienta sea

For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or email at mhwang@uiowa.edu.

- #### Lubricación

garantía del producto.

Lubricación

garantía del producto.

por personas no calificadas puede resultar peligroso y llegar a ocasionar daños personales además de invalidar la

- TRUPER.** El servicio de mantenimiento

- El servicio de las herramientas debe ser realizado

Servicio

- imediatamente.

Vasegurarse de que estén apretados correctamente. En caso de que alguno de los tornillos esté suelto, apriete

- Inspeccione regularmente todos los tornillos de montaje del motor.

obstrucciones para garantizar un entramiento adecua-

• Siempre mantiene las ventanas limpias y libres de

Limpieza y cuidados

Limpieza y cuidados

Cambio de carbones

Mantenimiento

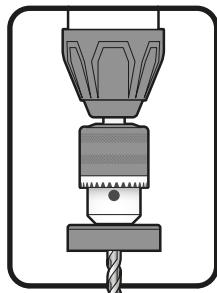
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Puedes en marcha

TRUPER®

- Presionar el interruptor.
- En el punto donde se desea hacer el orificio y luego rotomarilllo primero se debe colocar la punta de la broca automática en el modo labrado o
- Al utilizar la herramienta en el modo labrado o de 5 horas de trabajo para alcanzar su máxima eficiencia.
- Cuando está nueva, la herramienta requiere de un lapso de 5 horas de trabajo para alcanzar su máxima eficiencia.
- Utilizar la herramienta en el modo labrado o de 5 horas de trabajo para alcanzar su máxima eficiencia.
- Cada accesorio DS requieren de libertad para moverse dentro del broqueo, lo cual causa excentricidad cuando la herramienta gira durante la operación, sin afectar la centrada automáticamente durante la operación.
- Los accesorios DS requieren de una embague de sobrecarga.

Información adicional

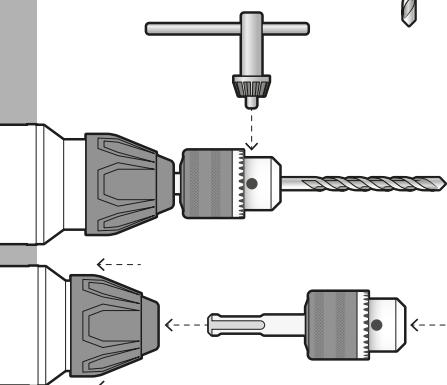


Embrague de sobrecarga

- Vuelve a encender la herramienta.
- Retirar el accesorio desacgado.
- Apagar la herramienta de inmediato.
- Posiblemente la herramienta cuente con un embrague de sobrecregá.

La herramienta cuente con un embrague de sobrecregá, que interrumpe la fuerza del eje (ocasionalmente un nudo de trinquete), si el accesorio se atasca. De presentarse esta situación, el guardapolo evitara que el polo caiga sobre la cuchilla perforación verticalmente por encima de su cabezal, el guardapolo sigue la broca antes de realizar la perforación.

Uso de guarda polvo



A ADVERTENCIA Nunca utilice el broqueo de tres modos con el selector de modo de operación en las posiciones de IMPACTO (■, □, △).

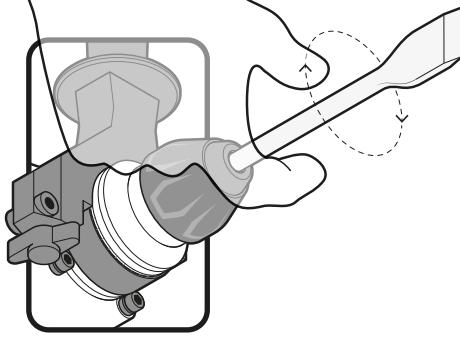
- Introduzca la broca dentro del broqueo de tres modos hasta que tope y asegúrela con la llave de broqueo.
- Introduzca la broca dentro del broqueo de tres modos hasta que tope y asegúrela con la llave de broqueo.
- Para instalar otro accesorio DS (página 7), instale como con cualquier otro accesorio DS (página 7), instale como broca / accesorio).

Puede taladrar metal, madera o plástico con la herramienta utilizando un broqueo de tres modos con la herramienta adaptador DS (NO INCLUIDOS).

Taladro sin impacto

Puede taladrar metal, madera o plástico con la herramienta utilizando un broqueo de tres modos con la herramienta adaptador DS (NO INCLUIDOS).

Con la herramienta utilizada un broqueo de tres modos con la herramienta adaptador DS (NO INCLUIDOS).

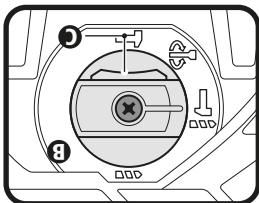
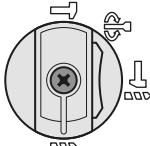
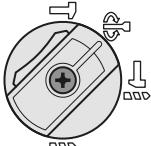
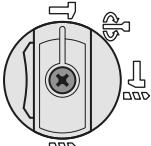


Cinco dedo

Puede girar el chisel en cualquier modo libre.
Cincel + Anillo ajustable modo libre.

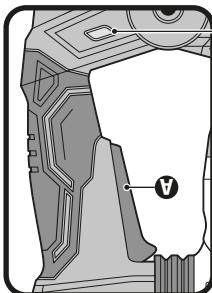
Rotomartillo

Taladro



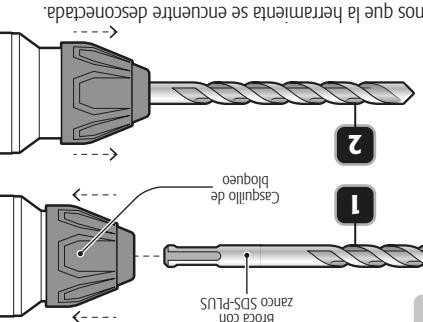
- Presione el botón de bloques (C) y gire el selector de función (B) a una de sus 4 posiciones dependiendo del trabajo a realizar hasta escuchar un clic para cambiar de modo de rotomartillo a taladro.
- A continuación, gire el selector de función (B) a la posición deseada.

Cambio de modo de operación



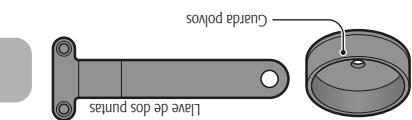
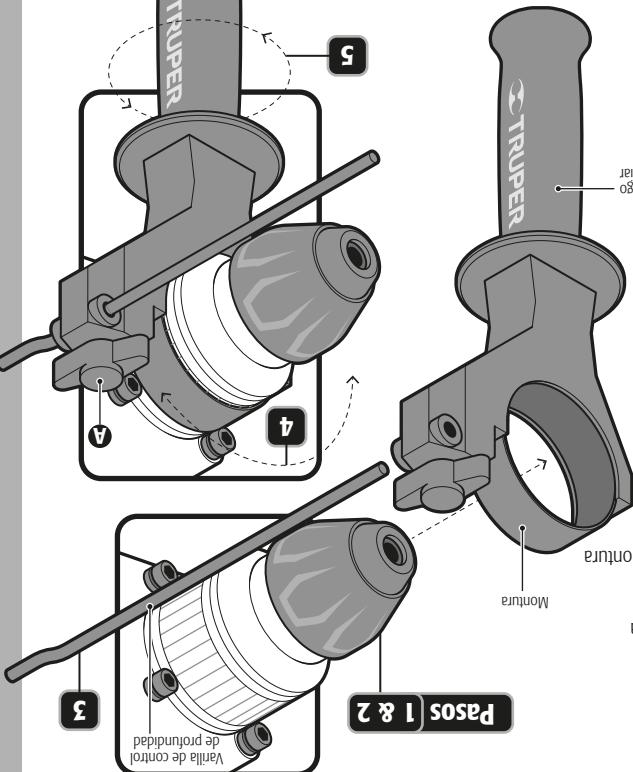
- Oprima el interruptor de encendido y conecte la llave al tornacorriente y el LED indicador de energía se encenderá.
- La velocidad media se recomienda para taladrar con impacto y trabajos de cincelado en piedra o concreto.
- La velocidad alta se recomienda para perforar metal.
- La velocidad media se recomienda para interrumpir el impacto.
- La velocidad media se recomienda para taladrar con impacto y trabajos de cincelado en brocas se resbalen que el agujero es aserrado, como en el caso de perforar agujeros.

Encendido y control de operación

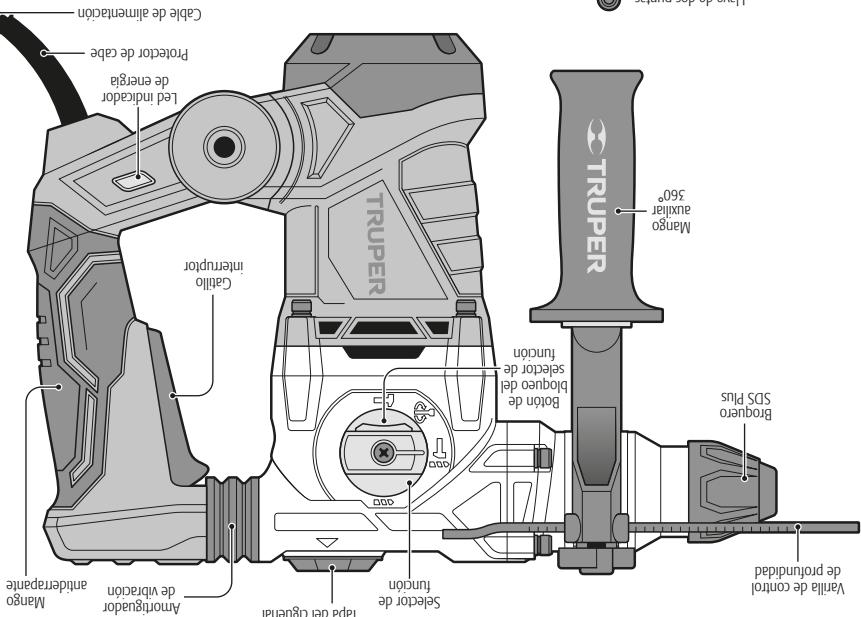


- Limpie y lubrique ligeramente la broca / accesorio.
- Empuje el casquillo de bloques hacia atrás, mientras inserta el casquillo de bloques hasta el tope de la broca / accesorio.
- Sujete el casquillo de bloques para que regrese a su posición original.
- Cierrese sujeta la broca / accesorio en el paso anterior.
- Trabando de sacarla del broqueo SDS. Una broca / accesorio bien asegurada no podrá ser retira a menos que el casquillo de bloques sea desprendido.
- La velocidad media se recomienda para taladrar con impacto.
- La velocidad alta se recomienda para taladrar con impacto.
- La velocidad media se recomienda para taladrar con impacto.
- La velocidad media se recomienda para taladrar con impacto.
- La velocidad media se recomienda para taladrar con impacto.

Instalación de la broca / accesorio



Ensamble



Partes

TRUPER®

AWG = Calibre de alambre estadounidense (American Wire Gauge). Referencia: NMX-J-195-ANCE

*
1

Capacidad en	Número de	Calibre de extensión	Amperes	máximo de 15 m
de 0 hasta 10 A	18 AWG(*)	de 1,8 m a 15 m	16 AWG	
de 10 A hasta 13 A	16 AWG		16 AWG	
de 13 A hasta 15 A	3 (uno a tierra)		14 AWG	
de 15 A hasta 20 A	8 AWG		12 AWG	



Capacidad de anticipar las necesidades en la medida que éstas se plantean. Si tiene dudas use el siguiente calibre más alto.

ADVERTENCIA Al usar un cable de extensión, asegúrese de usar el cable que cumpla con las normas de su país. Un cable de extensión que no cumple con las normas puede causar daños a la máquina y a las personas. Siempre use un cable de extensión que cumpla con las normas de su país.

ADVERTENCIA Las herramientas de doble sistema y sistema reforzado eliminan la necesidad de un cable de conexión entre 3 partes con conexión a tierra. Un sistema de conexión eléctrica con conexión a tierra.

Redes de suministro eléctricos

ADVERTENCIA Antes de obtener acceso a las terminales, todos los circuitos de alimentación deben ser desconectados. La construcción del sistema eléctrico de esta herramienta es diferente a la exposición a la lluvia, líquidos y/o humedad. Los componentes de líquidos durarán más que operación. No se expone a la lluvia, líquidos y/o humedad.

AutORIZADO **TRUPER**, con el fin de evitar algún mensaje de descarga o accidente considerable.

La clase de álgebra lineal tiene como objetivo principal el desarrollo de habilidades matemáticas y la resolución de problemas. Los temas principales incluyen sistemas de ecuaciones lineales, matrices, determinantes, espacios vectoriales, transformaciones lineales y aplicaciones prácticas. La clase se divide en tres secciones principales: teoría, ejemplos y problemas prácticos.

- | Código | Descripción | Porta herramientas SDS | Rotomartillo electroneumático SDS | Tensión | Frecuencia | Corriente | Potencia | Energía de impacto | Capacidad de perforación | Velocidad | Velocidad de trabajo | Conductores | Aislamiento | | | | | |
|--------|-------------|------------------------|-----------------------------------|-------------------|------------|-----------|----------|--------------------|--|---|---|--|------------------|-------------|----------|----------|---|----------|
| 100372 | | SDS Plus | Rotomartillo eléctrico | 220 V ~ - 240 V ~ | 50 Hz | 72 A | 1500 W | 6 Joules | Concreto: 1-1/4" (32 mm) Metal: 1/2" (13 mm) Madera: 1-9/16" (40 mm) | Velocidad: n ^o : 850 / min Rotomartillo: 4780 golpes/min | Taladro: n ^o : 850 / min Rotomartillo: 4780 golpes/min | 50 min de trabajo por 20 min de descanso. Máximo 6 horas diarias | Ciclo de trabajo | | | | | |
| | | | | | | | | | | | | | HO7RN-F x 2C | Conductores | | | | |
| | | | | | | | | | | | | | | IPX0 | Clase II | Grado IP | ● | Aluminio |

ROEL-60N-2

Especificaciones técnicas

TRUPEER®

! Realice MANTENIMIENTO periódico a su máquina (página 9).



50 min de trabajo por 20 min de descanso. Máximo diario 6 horas.

! RESPECTE LOS CICLOS DE TRABAJO.



LIMPIE DESPUES DE CADA USO PARA RETIRAR EL EXCESO DE POLVO.

! NO CAMBIE EL SELECTOR CON EL EQUIPO FUNCIONANDO.



Recomendaciones de uso y cuidados



Para poder sacar el máximo provecho de la herramienta, alargar su vida útil, hacer válida la garantía en caso de ser necesario y evitar riesgos o lesiones graves, es fundamental leer este instructivo por completo antes de usar la herramienta.

Guarde este instructivo para futuras referencias.

Los gráficos de este instructivo son para referencia, pueden variar del aspecto real de la herramienta.

! ATENCIÓN

Indice

- 12 Poliza de Garantía.
- 11 Centros de Servicio Autorizados.
- 10 Notas.
- 9 Mantenimiento.
- 7 Puesta en marcha.
- 6 Ensamblaje.
- 5 Partes.
- 4 Advertencias de Seguridad para uso de teladores y rotomacetas.
- 3 Requerimientos técnicos.
- 3 Especificaciones técnicas.

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Lea este instructivo por completo
antes de usar la herramienta.

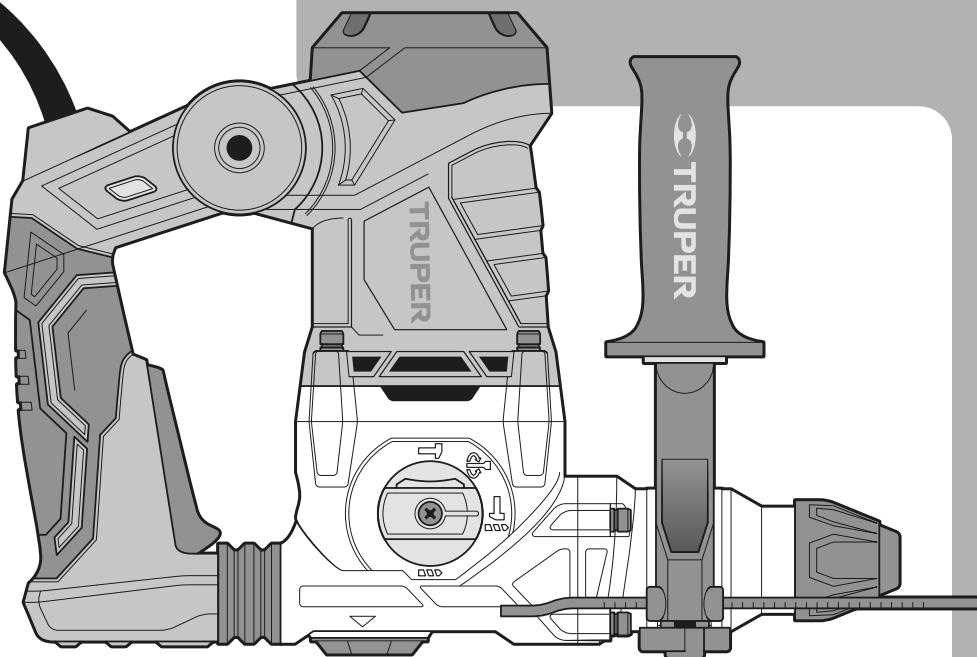
¡ATENCIÓN!



100372 ROEL-60N-2

Código Modelo
Este instructivo es para:

ROEL-60N-2



7.2 A
6 Joules
Motor
de energía
de impacto

Rotomartillo eléctronumático SDS PLUS

Instructivo de

TRUPER®

ESPAÑOL
ENGLISH