

Manual

## 1/4-Sheet orbital finishing sander

**2 A**

Motor

**1/4**

Sandpaper

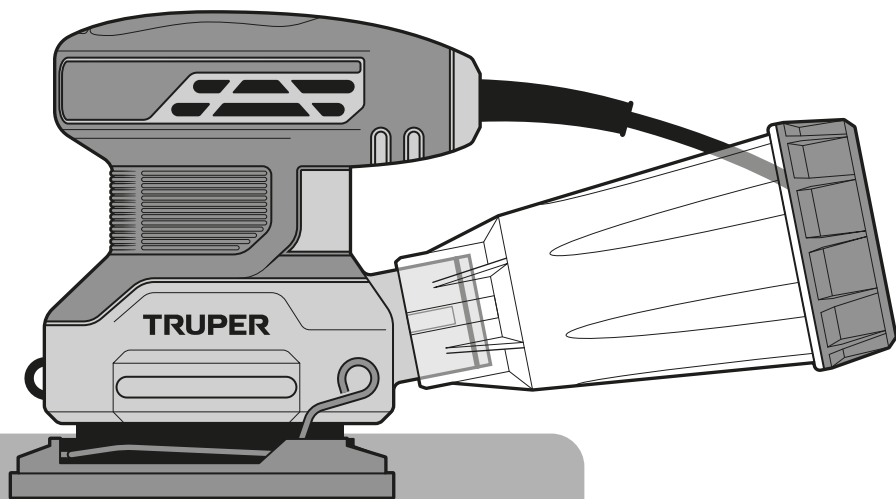
Applies for:

**Code**

102746

**Model**

LIOR-1/4A3




## LIOR-1/4A3



Read this manual thoroughly  
before using the tool.



|   |    |
|---|----|
| Technical data.....   | 3  |
| Power requirements.....   | 3  |
|  General power tool safety warnings.....    | 4  |
|  Safety warnings for finishing sanders..... | 5  |
| Parts.....  | 5  |
| Preparation.....  | 6  |
| Start up.....   | 8  |
| Maintenance.....  | 9  |
| Notes.....  | 10 |
| Authorized Service Centers.....   | 11 |
| Warranty policy.....  | 12 |

### **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 recommendations



### **RESPECT WORK CYCLES.**

30 min of work for 15 min of rest. Daily maximum 3 hours.



Never use the cord to carry, lift or disconnect the tool.



**DON'T** Turn on the tool when the sandpaper surface is on the workpiece



To **PROLONG** the life of your tool,  
1 Clean with compressed air (Blow), after each use.



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

## LIOR-1/4A3

|                 |   |
|-----------------|---|
| Code            | 102746  |
| Description     | 1/4-Sheet Orbital Finishing Sander                            |
| Base            | 4.3" x 4"   |
| Voltage         | 127 V~  |
| Frequency       | 60 Hz   |
| Current         | 2 A   |
| Speed           | 14 000 OPM  |
| Power           | 240 W   |
| Dust collection | Yes   |
| Duty cycle      | 30 minutes work per 15 minutes idle. Maximum 3 hours per day. |
| Conductors      | 18 AWG x 2C with insulating temperature of 221 °F             |
| Insulation      | Class II  |

Power cord grips used in this product: Type "Y".  
Build quality: Reinforced insulation.  
Thermal insulation on motor winding: Class F.

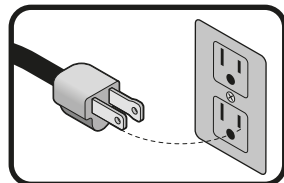
**⚠ WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER Authorized Service Center. The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use. Do not 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 are equipped with a polarized plug (one prong is wider than the other). This plug will only fit in the right way into a polarized outlet. If the plug cannot be introduced into the outlet, reverse the plug. If it still doesn't fit, call a qualified electrician to install for you a polarized outlet. Do not alter the plug in any way. Double insulation eliminates the need of both a grounded third 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 6 ft to 49 ft | higher than 49 ft |
| from 0 A and up to 10 A  | 3 (one grounded)     | 18 AWG(*)          | 16 AWG            |
| from 10 A and up to 13 A |                      | 16 AWG             | 14 AWG            |
| from 13 A and up to 15 A |                      | 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-2006

**⚠ WARNING** When operating power tools outdoors, use a **⚡ VOLTECK** grounded extension cable labeled "For Outdoors Use". These extensions are specially designed for operating outdoors and reduce the risk of electric shock.





## 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 losing 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, jewelry, 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.



This tool is in compliance with the Official Mexican Standard (NOM - Norma Oficial Mexicana).



# Safety warnings for finishing sanders

**TRUPER**  
**PRO**

## Cautions with dust and residues

**⚠ CAUTION** • Observe the applicable regulations when sanding painted surfaces. Use special care when the paint is lead-based.

• To have a safe work environment remove dust and any other debris. When possible use a vacuum cleaner or a dust recollection extractor.

**⚠ CAUTION** • Everybody within the work area shall wear professional breathing devices to be protected against dust and smoke generated when sanding.

• Do not use this tool to sand pieces containing magnesium.

**⚠ CAUTION** • Wear TRUPER brand professional breathing devices and cartridges suitable for working with paint dust and vapors. Regular painting masks do not offer that type of protection.

**⚠ WARNING** • Children and pregnant women shall not enter the work area.

**⚠ WARNING** • Children and pregnant women must not enter the work area.

**⚠ WARNING** • Remove the dust bag before sanding metal, sparks can ignite the dust or even the bag.

• Do not use worn or broken sandpaper.

• Do not touch the moving sanding sheet.

• Before you start sanding, make sure you have removed all foreign objects such as nails or screws from the workpiece.

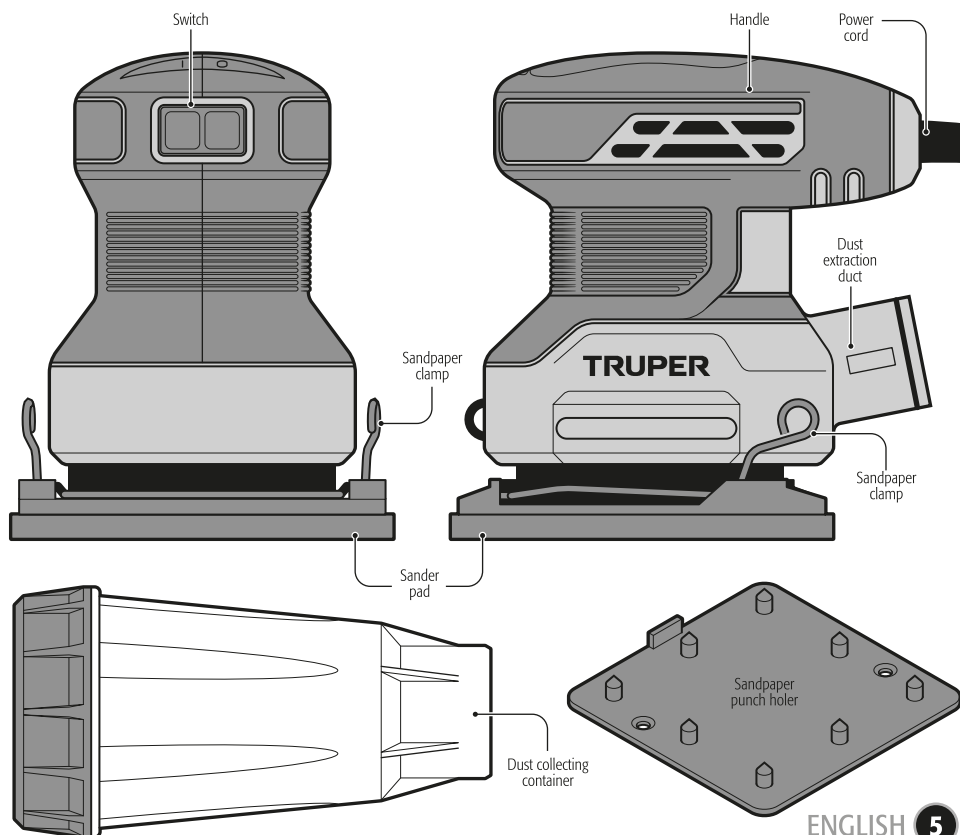
**⚠ WARNING** • Hold the tool by insulated gripping surfaces, as the sandpaper could contact its own power cord.

Contact with a live wire also makes metal parts of the tool live and shocks the operator.

## Wear adequate clothing

**⚠ WARNING** • Wear adequate clothes. Loose clothes, jewelry or long hair could get caught in the moving parts.

## Parts



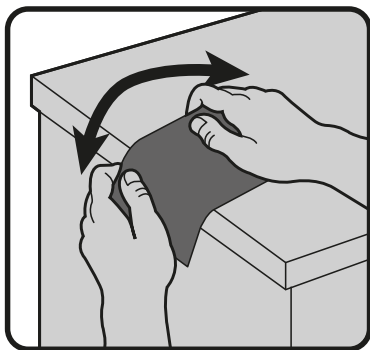
## Selecting the sandpaper

- Select the right sander sheet grain.
- Grains available vary from very coarse to very fine.
- Coarse grain is used to sand rough surfaces, medium grain for light work and fine grain, for finishing purposes.
- Is advisable to test with disposable pieces to determine the right grain for each particular job.
- Do not use the same sheet to sand wood or metal. Metal particles may embed into the sander and damage the wood surface.

| Grain         | Type        |
|---------------|-------------|
| 60 or lower   | very coarse |
| 80 - 100      | coarse      |
| 120 - 150     | medium      |
| 180 - 220     | fine        |
| 240 or higher | very fine   |

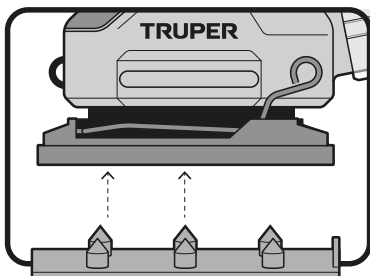
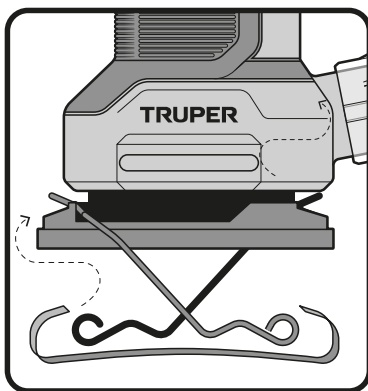
- To get the 1/4 sandpaper size compatible with the sander, fold the commercial size sheet (A-4) twice down the middle. You get four 10.8 mm x 14 mm sheets.

## Installing the sand paper



- Soften stiff sandpaper by folding it over a 90° edge of a table or other straight edge, as shown in the figure. Focus on softening the edges to be fastened.

- Release the sanding sheet jaws on both sides of the sander.
- Insert the narrow end of the sanding sheet under a clamp and secure by returning to the starting position; stretch the paper over the base
- Check that the holes correspond to those in the base, and then adjust the other side.



- In the event that the installed sandpaper does not have the corresponding holes, you can drill them with the included hole punch by matching the base of the sander with the properly supported hole punch and pressing down until the sheet is pierced.
- The paper must be well supported, otherwise there could be excessive wear on the base.

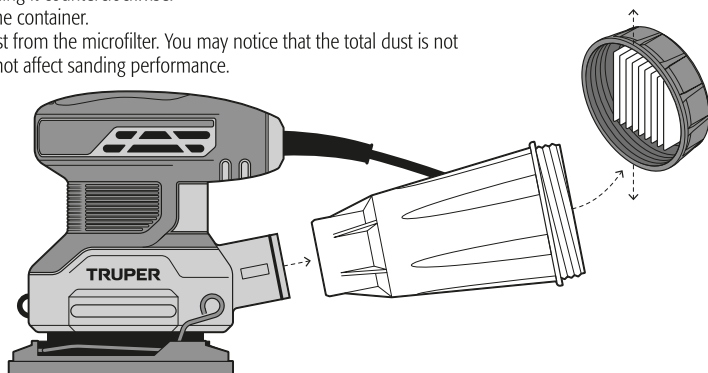
**⚠ WARNING** Do not continue to operate the machine if the sandpaper is worn or damaged

## Dust extraction

The sander is equipped with a dust collection container and a dust extraction port.

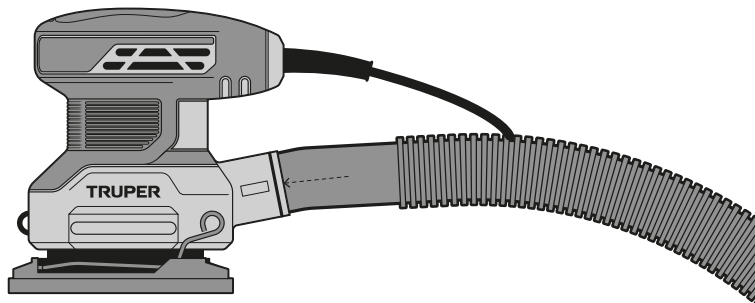
## Installation of dust collection container

- Align the canister against the guide in the dust extraction port then push it all the way into the port so it is secure.
- When the container is half full, hold the body of the container and remove the microfilter lid by turning it counterclockwise.
- Dust the body of the container.
- Remove excess dust from the microfilter. You may notice that the total dust is not removed; this does not affect sanding performance.

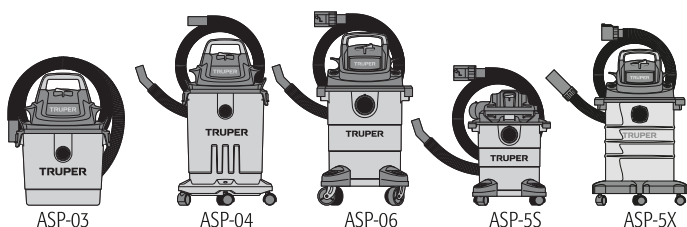


## Vacuum installation

- For more efficient performance and cleaner operation, you can connect a vacuum cleaner to the dust extraction port instead of a dust collection container.
- Connect a vacuum hose to the port as shown in the image.



## Compatibility with vacuum cleaners

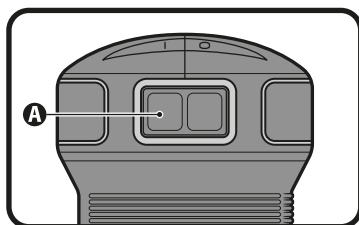


### Turning On

- Connect the plug into the power outlet.
- To turn the tool on, press the switch **(A)** in the **I** position.
- To turn the tool off, press the switch to the **O** position.

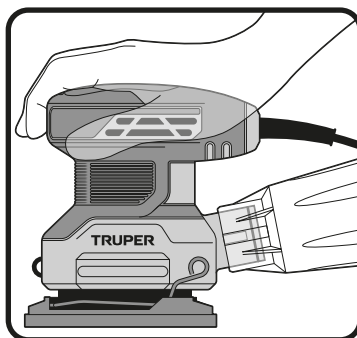
**⚠ CAUTION** Do not turn on the tool when the sandpaper surface is onto the work piece.

**⚠ CAUTION** Before turning off the tool move it away from the work piece.



### Sander operation

- Turn on the sander before setting it on the work piece.
- Keep the sander base parallel to the work piece surface.
- Press down onto the work piece making circular movements and verifying the entire sander base is supported on the work piece.
- Use moderate pressure. Do not force the sander. Running at a moderate speed. Overheating may occur if too much pressure is applied. The motor will run slow leading to inefficient sanding and damage to the motor.
- If after sanding you see marks on the work piece surface sand again using a sandpaper with coarser grain to eliminate the marks. To finish the sanding operations replace back the previous sanding sheet. Also, you can replace the worn sheet with a new one.
- Do not wear out the sandpaper completely. Replace before starts wearing out.



## Cleaning and care

- Keep the motor housing ventilation slots clean and uncovered.
- Apply compressed air after each use.
- In case of malfunctioning go only to a TRUPER Authorized Service Center

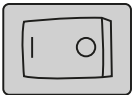
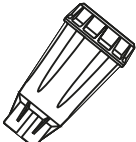
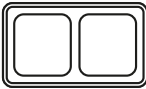

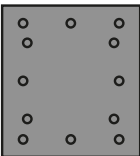

## Carbon brush replacement

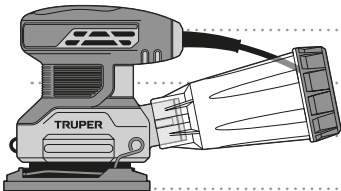
- Checked periodically the carbon brushes when worn. Replace only at a TRUPER Authorized Service Center.
- After replacing the carbons ask the technician to double-check the new carbon brushes can move freely in the carbon housing. Ask to have the tool turned on and keep it running 5 minutes to make even the contact of carbons and commutator.
- 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 both carbons should be replaced simultaneously.

## Clean and empty the dust container

- Remove the dust cup from the tool.
- Hold the body of the dust container and remove the microfilter by turning it counterclockwise.
- Remove the dust from the body of the dust container.
- Shake excess dust from the microfilter or remove the dust with a soft brush. You may notice that not all the dust comes out of the microfilter. This will not affect sanding performance, but will reduce dust collection efficiency.

## Spare parts accessories

| Replacement  | Code   | Model           | Replacement   | Code   | Model          |
|--|--------|-----------------|---|--------|----------------|
| <br>Switch        | 103184 | INT-LIOR-1/4A3  | <br>Dust canister     | 103186 | BP-LIOR-1/4A3  |
| <br>Switch cover | 103185 | PINT-LIOR-1/4A3 | <br>Sandpaper holder | 103188 | SUJ-LIOR-1/4A3 |
| <br>Sanding pad  | 103187 | BASE-LIOR-1/4A3 | <br>Carbon brushes   | 103183 | CB-LIOR-1/4A3  |



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 0537

**BAJA CALIFORNIA** **SUCURSAL TIJUANA**  
AV. LA ENCANTADA, LOTE #5, PARQUE INDUSTRIAL EL  
FLORIDO II, C.P. 22244, TIJUANA, B.C.  
TEL.: 664 969 5100

**BAJA CALIFORNIA SUR** **FIX FERRETERÍAS**  
FELIPE ANGELES ESQ. RUIZ CORTÍNEZ S/N, COL. PUEBLO  
NUEVO, C.P. 23670, CD. CONSTITUCIÓN, B.C.S.  
TEL.: 613 132 1115

**CAMPECHE** **TORNILLERÍA Y FERRETERÍA AAA**  
AV. ÁLVARO OBREGÓN #324, COL. ESPERANZA  
C.P. 24080 CAMPECHE, CAMP. TEL.: 981 815 2808

**CHIAPAS** **FIX FERRETERÍAS**  
AV. CENTRAL SUR #27, COL. CENTRO, C.P. 30700,  
TAPACHULA, CHIS. TEL.: 962 118 4083

**CHIHUAHUA** **SUCURSAL CHIHUAHUA**  
AV. SILVESTRE TERRAZAS #128-11, PARQUE INDUSTRIAL  
BAFAR, CARRETERA MÉXICO CUAUHTÉMOC, C.P. 31415,  
CHIHUAHUA, CHIH. TEL.: 614 434 0052

**MEXICO CITY** **FIX FERRETERÍAS**  
EL MONSTRUO DE CORREGIDORA, CORREGIDORA # 35,  
COL. CENTRO, C.P. 06060, CUAUHTÉMOC, CDMX.  
TEL.: 55 5522 5031 / 5522 4861

**COAHUILA** **SUCURSAL TORREÓN**  
CALLE METAL MECÁNICA #280, PARQUE INDUSTRIAL  
ORIENTE, C.P. 27278, TORREÓN, COAH.  
TEL.: 871 209 68 23

**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 8013

**DURANGO** **TORNILLOS ÁGUILA, S.A. DE C.V.**  
MAZURIO #200, COL. LUIS ECHEVERRÍA, DURANGO,  
DGO. TEL.: 618 817 1946 / 618 818 2844

**ESTADO DE MÉXICO** **SUCURSAL CENTRO JILOTEPEC**  
PARQUE INDUSTRIAL # 1, COL. PARQUE INDUSTRIAL  
JILOTEPEC, JILOTEPEC, EDO. DE MÉX. C.P. 54257,  
TEL.: 761 782 9101 EXT. 5728 Y 5102

**GUANAJUATO** **CÍA. FERRETERA NUEVO MUNDO S.A. DE C.V.**  
AV. MÉXICO - JAPÓN #225, CD. INDUSTRIAL, C.P. 38010,  
CELAYA, GTO. TEL.: 461 617 7578 / 79 / 80 / 88

**GUERRERO** **CENTRO DE SERVICIO ECLIPSE**  
CALLE PRINCIPAL MZ.1 LT. 1, COL. SANTA FE, C.P. 39010,  
CHILPANCIÑO, GRO. TEL.: 747 478 5793

**HIDALGO** **FERREPRECIOS 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

**JALISCO** **SUCURSAL GUADALAJARA**  
AV. ADOLFO B. HORN # 6800, COL: SANTA CRUZ DEL  
VALLE, C.P.: 45655, TLAJOMULCO DE ZÚNIGA, JAL.  
TEL.: 33 3606 5285 AL 90

**MICHOACÁN** **FIX FERRETERÍAS**  
AV. PASEO DE LA REPÚBLICA #3140-A, COL.  
EX-HACIENDA DE LA HUERTA, C.P. 58050, MORELIA,  
MICH. TEL.: 443 334 6858

**MORELOS** **FIX FERRETERÍAS**  
CAPITÁN ANZURES #95, ESQ. JOSÉ PERDIZ, COL.  
CENTRO, C.P. 62740, CUAUTLA, MOR.  
TEL.: 735 352 8931

**NAYARIT** **HERRAMIENTAS DE TEPIC**  
MAZATLAN #117, COL. CENTRO, C.P. 63000, TEPIC, NAY.  
TEL.: 311 258 0540

**NUEVO LEÓN** **SUCURSAL MONTERREY**  
CARRETERA LAREDO #300, 18 MONTERREY PARKS,  
COLONIA PUERTA DE ANÁHUAC, C.P. 66052, ESCOBEDO,  
NUEVO LEÓN, TEL.: 81 8352 8791 / 81 8352 8790

**OAXACA** **FIX FERRETERÍAS**  
AV. 20 DE NOVIEMBRE #910, COL. CENTRO, C.P. 68300,  
TUXTEPEC, OAX. TEL.: 287 106 3092

**PUEBLA** **SUCURSAL PUEBLA**  
AV. PERIFÉRICO #2-A, SAN LORENZO ALMECATLA,  
C.P. 72710, CUAUTLACINGO, PUE.  
TEL.: 222 282 8282 / 84 / 85 / 86

**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

**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

**SAN LUIS POTOSÍ** **FIX FERRETERÍAS**  
AV. UNIVERSIDAD #1850, COL. EL PASEO, C.P. 78320,  
SAN LUIS POTOSÍ, S.L.P. TEL.: 444 822 4341

**SINALOA** **SUCURSAL CULIACÁN**  
AV. JESÚS KUMATE SUR #4301, COL. HACIENDA DE LA  
MORA, C.P. 80143, CULIACÁN, SIN.  
TEL.: 667 173 9139 / 173 8400

**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

**TABASCO** **SUCURSAL VILLAHERMOSA**  
CALLE HELIO LOTES 1, 2 Y 3 MZ. #1, COL. INDUSTRIAL,  
2A ETAPA, C.P. 86010, VILLAHERMOSA, TAB.  
TEL.: 993 353 7244

**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

**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

**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

**YUCATÁN** **SUCURSAL MÉRIDA**  
CALLE 33 #600 Y 602, LOCALIDAD ITZINCAB Y Mulsay,  
MPIO. UMAN, C.P. 97390, MÉRIDA, YUC.  
TEL.: 999 912 2451

| Code   | Model      | Brand         |
|--------|------------|---------------|
| 102746 | LIOR-1/4A3 | TRUPER<br>PRO |

Warranty. Duration: 3 year. Coverage: parts, components and workmanship against manufacturing or operating defects, except if used under conditions other than normal; when it was not operated in accordance with the instructive; was altered or repaired by personnel not authorized by TRUPER®. To make the warranty valid, present the product, stamped policy or invoice or receipt or voucher, in the establishment where you bought it or in Corregidora 35, Centro, Cuauhtémoc, CDMX, 06060, where you can also purchase parts, components, consumables and accessories. It includes the costs of transportation of the product that derive from its fulfillment of its service network. . Phone number 800-018-7873. Made in China. Imported by TRUPER, S.A. de C.V. Parque Industrial 1, Parque Industrial Jilotepec, Jilotepec, Edo. de Méx. C.P. 54257, Phone number 761 782 9100.



Stamp of the business. Delivery date: