Nothing but **HEAVY DUTY.™**

M18 BLIDR

(EN) User Manual
(ZH) **操作指南**
(ZH) 操作指南
(KO) 사용시 주의사항
(TH) คู่มือการใช้งาน
(ID) Buku Petunjuk Pengguna
(VI) Cẩm nang hướng dẫn sử dụng
(JA) 取扱説明書


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BRUSHLESS


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BRUSHLESS


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BRUSHLESS
STOP
START


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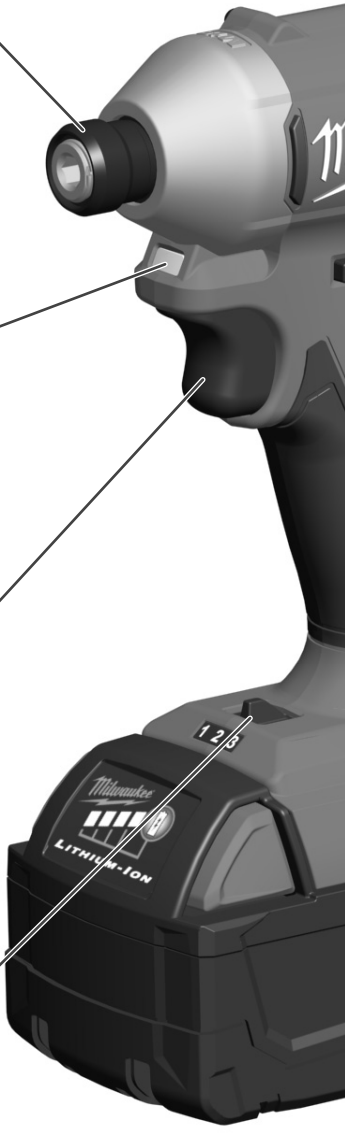
LITHIUM-ION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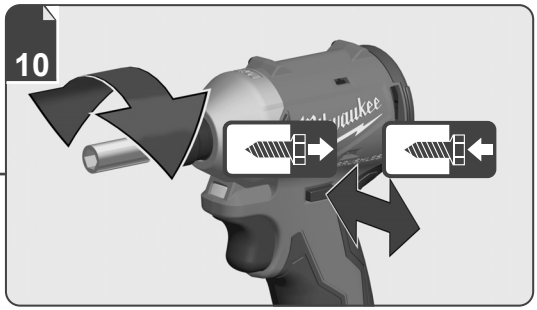
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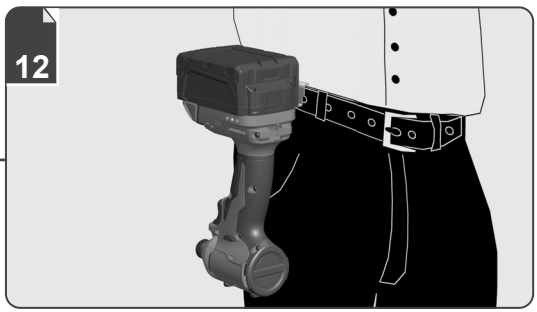
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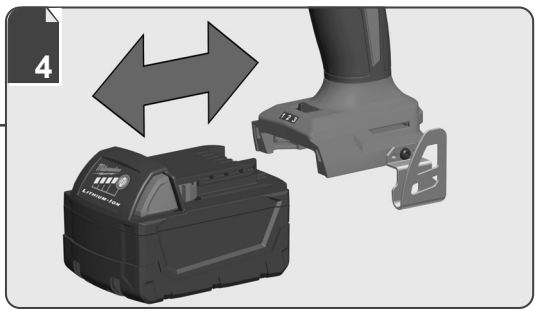

4

Remove the battery pack before starting any work on the product.

對產品進行任何工作前，先移除電池組。

在开始任何工作之前，请先取出电池。

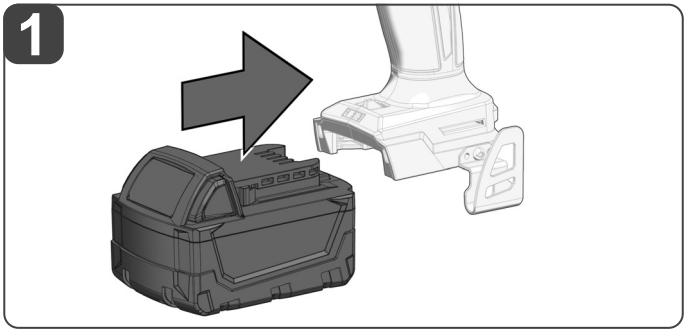
제품을 청소하거나 분리하기 전, 배터리 팩을 제거하십시오.

ถอดแบตเตอรีออกก่อนเริ่มการใช้งาน

Lepaskan paket baterai sebelum memulai pekerjaan apa pun pada produk.

Tháo pin trước khi bắt đầu thao tác với sản phẩm.

作業前の調整時や保守・点検時は、本体からバッテリーを取り外してください。



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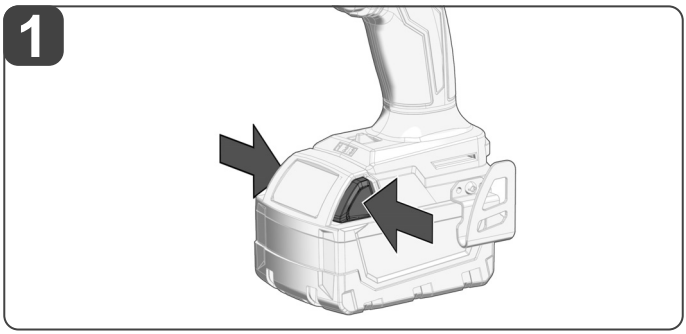

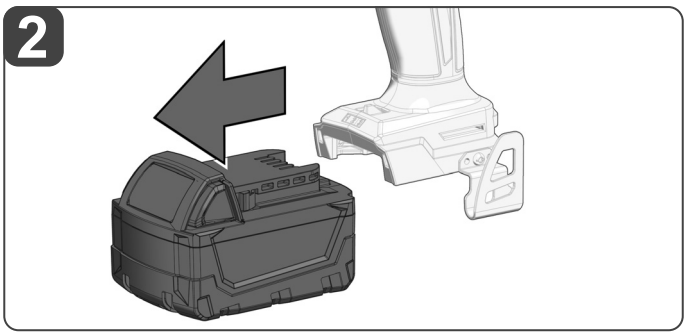

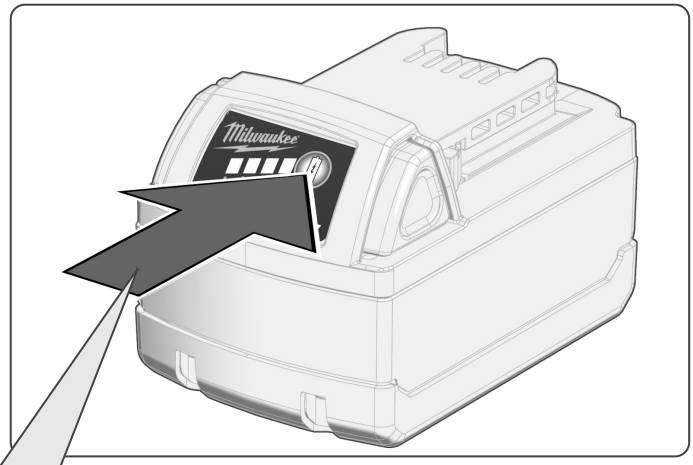

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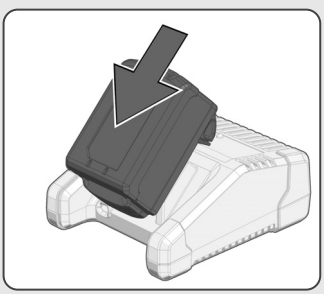

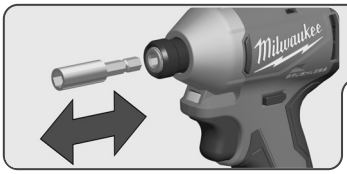
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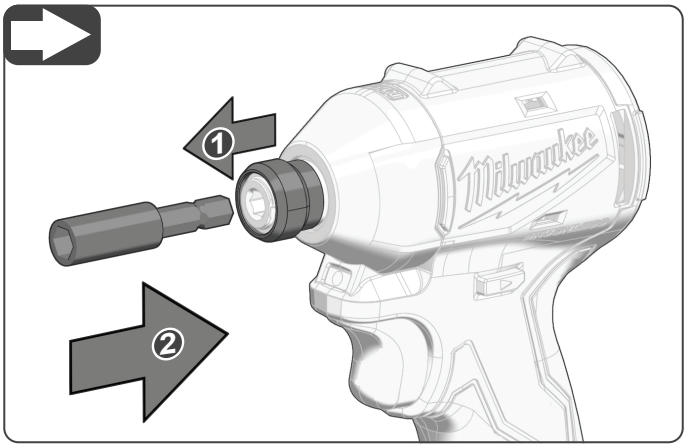
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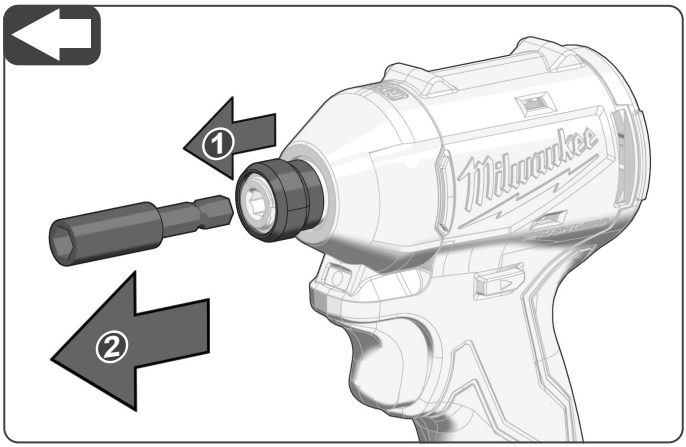
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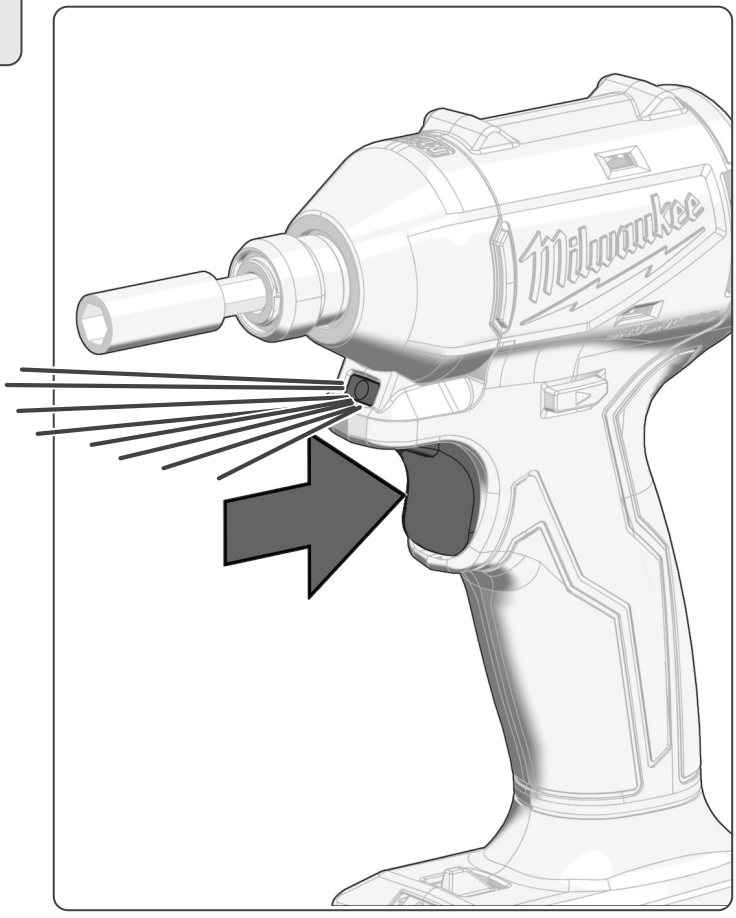
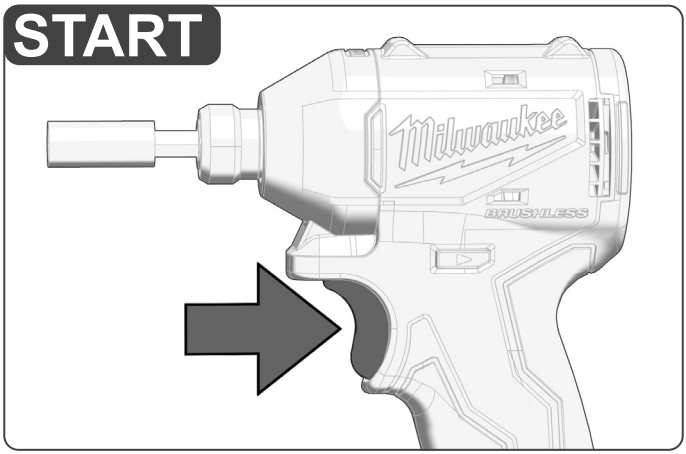
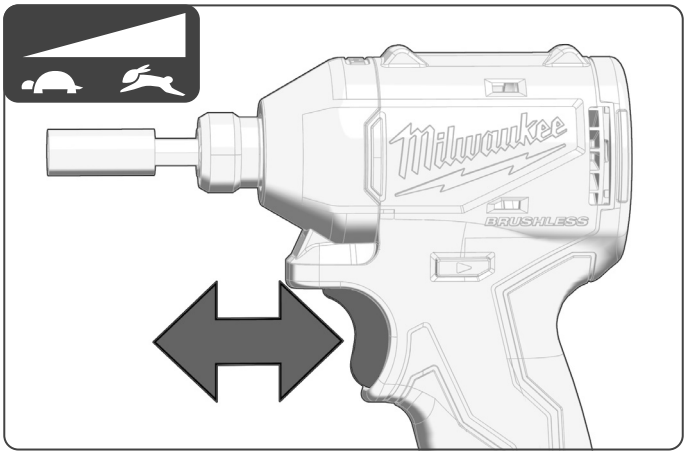
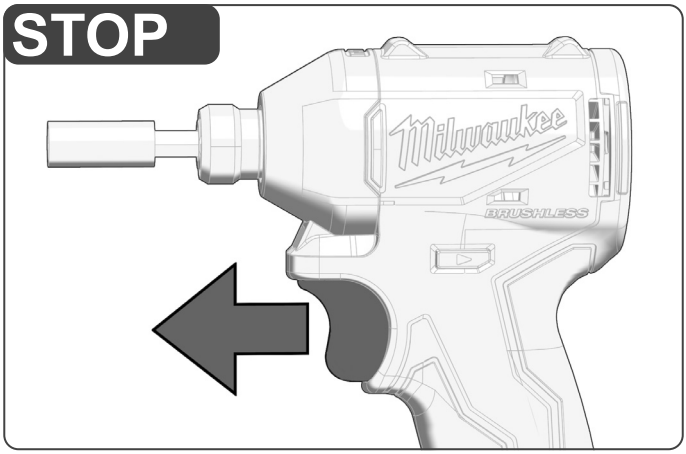

Milwaukee

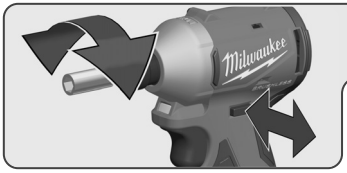
Start	Stop
開始	停止
开始	停止
시작	정지
สตาร์ท	หยุดเครื่อง
Mulai	Berhenti
Khởi động	Dừng
スタート	ストップ

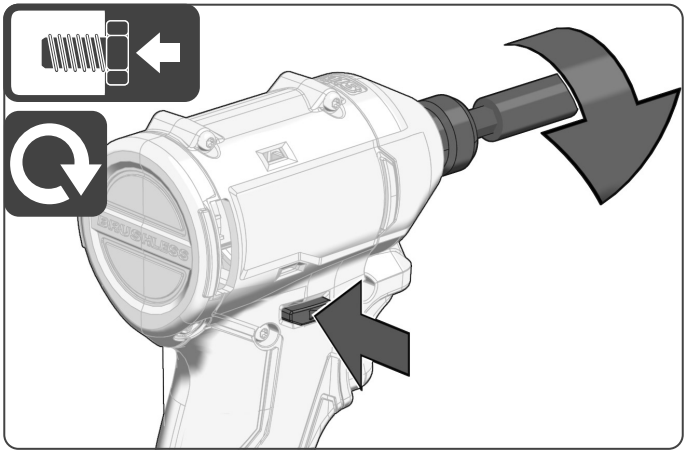


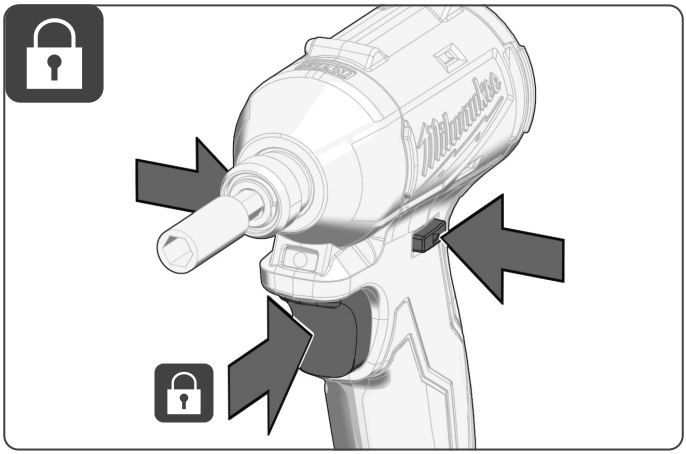


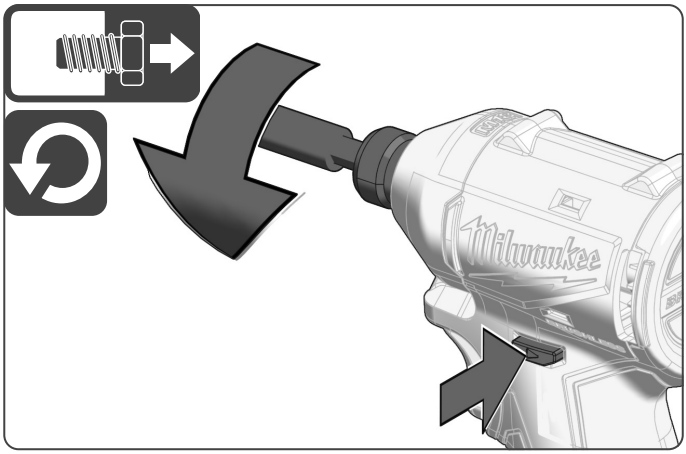


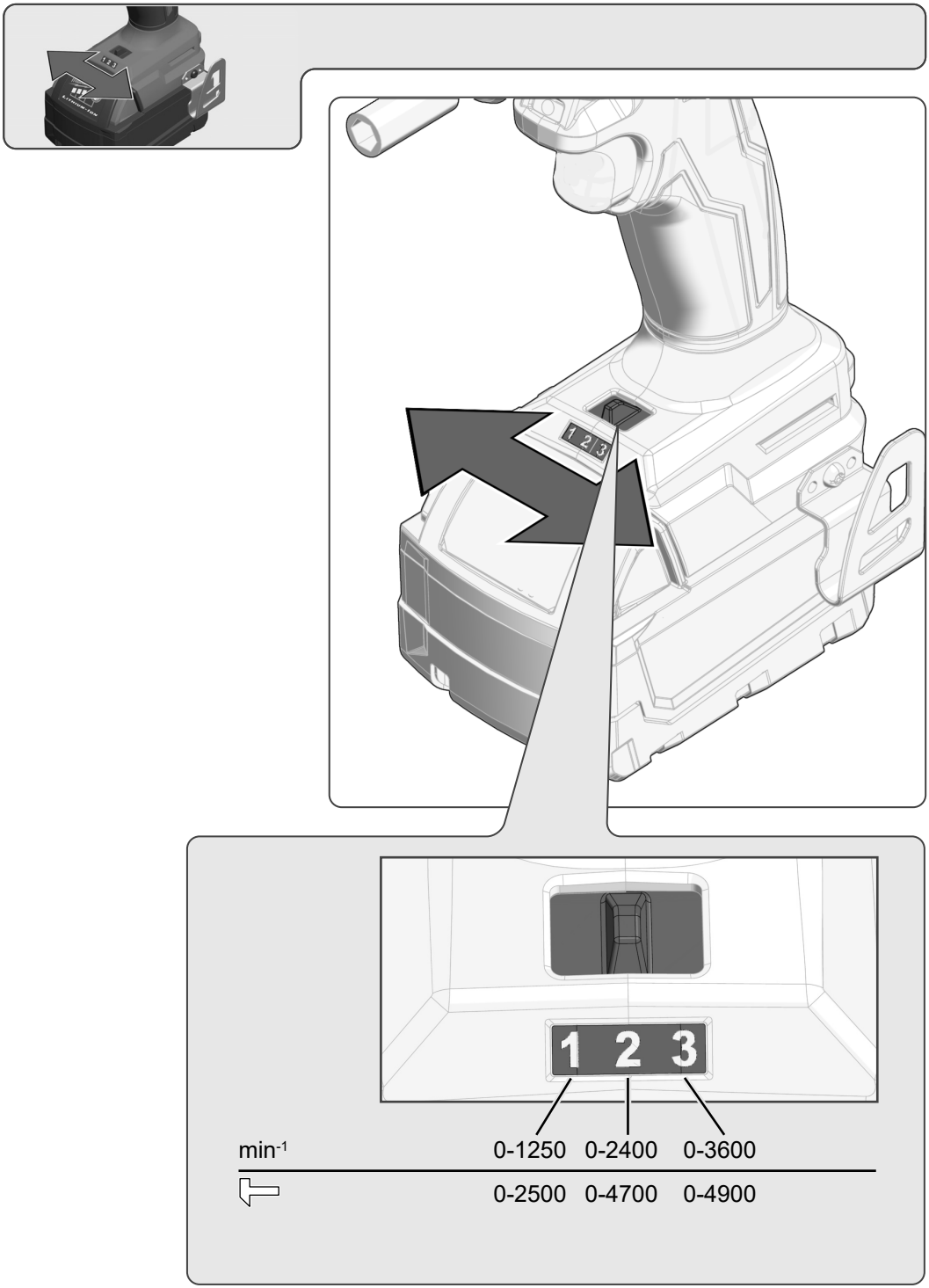
Insulated gripping surface
絕緣的握持面
绝缘的握持面
절연 그립 표면
พื้นผิวจับกันความร้อน
Permukaan genggam berinsulasi
Bề mặt tay cầm được cách điện
絶縁グリップ面

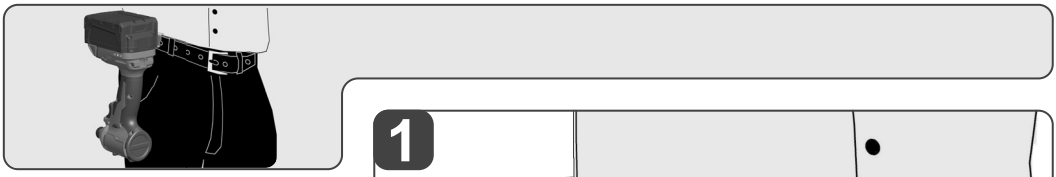


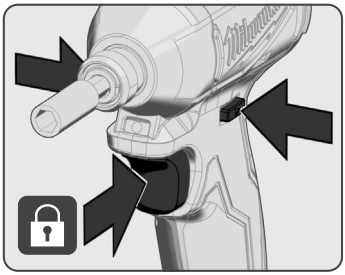


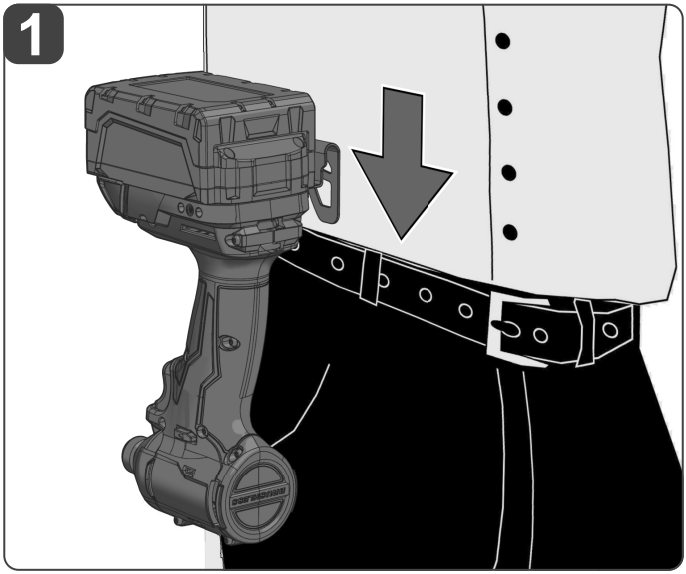





1 2 3
1 2 3
min-1
0-1250 0-2400 0-3600
0-2500 0-4700 0-4900



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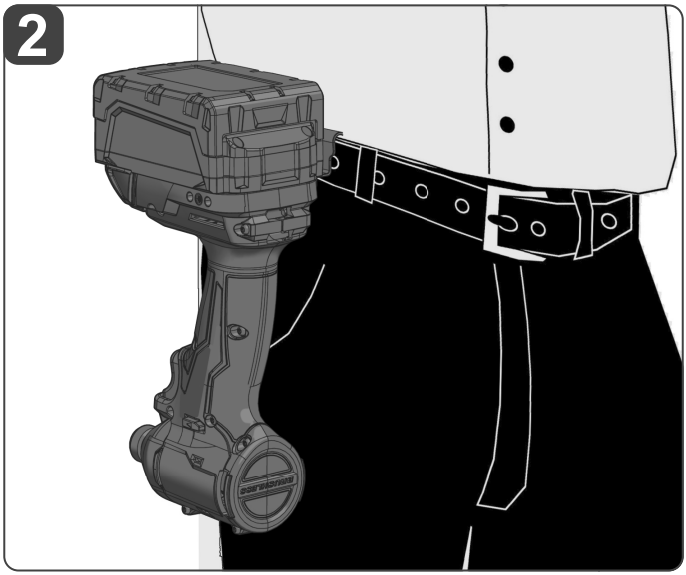

2

TECHNICAL DATA	M18 BLIDR
Type	Cordless impact screwdriver
Battery voltage	18 V ⎓
No-load speed	
Mode 1	0-1250 /min
Mode 2	0-2400 /min
Mode 3	0-3600 /min
Impact rate	
Mode 1	0-2500 /min
Mode 2	0-4700 /min
Mode 3	0-4900 /min
Max torque	192 Nm
Tool reception	HEX 1/4 in. (6.35 mm)
Max diameter bolt/nut	M16
Weight according EPTA-Procedure 01/2014 (2.0 Ah - 5.0 Ah)	1.22 - 1.51 kg
Recommended ambient operating temperature	-18 - +50 °C
Recommended battery types	M18B..., M18 HB...
Recommended charger	M12-18..., M18 DFC...
Noise information	
Noise emission values determined according to EN 62841	
A-weighted sound pressure level	99.52 dB(A)
Uncertainty K	3 dB(A)
A-weighted sound power level	110.82 dB(A)
Uncertainty K	3 dB(A)
Always wear ear protectors.	
Vibration information	
Total vibration values (vector sum in the three axes) determined according to EN 62841	
Vibration emission value a_h	21.49 m/s^2
Uncertainty K	1.5 m/s^2

WARNING!

The declared vibration total values and the declared noise emission values given in this instruction manual have been measured in accordance with a standardised test and may be used to compare one tool with another. They may be used for a preliminary assessment of exposure.

The declared vibration and noise emission values represent the main applications of the tool. However, if the tool is used for different applications, used with different accessories, or poorly maintained, the vibration and noise emission may differ. These conditions may significantly increase the exposure levels over the total working period.

An estimation of the level of exposure to vibration and noise should take into account the times when the tool is turned off or when it is running idle. These conditions may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration and noise, such as maintaining the tool and the accessories, keeping the hands warm (in case of vibration), and organising work patterns.

WARNING! Read all safety warnings, instructions, illustrations, and specifications provided with this product. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

Save all warnings and instructions for future reference.

IMPACT DRIVER SAFETY WARNINGS

Wear ear protectors. Exposure to noise can cause hearing loss.

Hold the product by insulated gripping surfaces when performing an operation where the fastener may contact hidden wiring. Fasteners contacting a "live" wire may make exposed metal parts of the product "live" and could give the operator an electric shock.

ADDITIONAL SAFETY AND WORKING INSTRUCTIONS

Use protective equipment. Always wear safety glasses when working with the product. The use of protective clothing is recommended, such as dust mask, protective gloves, sturdy non-slip footwear, helmet, and ear defenders.

The dust produced when using the product may be harmful to health. Do not inhale the dust. Wear a suitable dust protection mask.

Do not use the product on any materials that present a danger to health (e.g. asbestos).

Turn the product off immediately if the insertion tool stalls. Do not turn the product on again while the insertion tool is stalled, as doing so could trigger a sudden recoil with a high reactive force.

Determine why the insertion tool stalled and rectify this, paying heed to the safety instructions.

The possible causes may be the following:

- The insertion tool is tilted in the workpiece to be machined.
- The insertion tool has pierced through the material to be machined.
- The product is overloaded.

Do not reach into the product while it is running.

The insertion tool may become hot during use.

WARNING! Danger of burns.

- when changing tools
- when setting the product down

Chips and splinters must not be removed while the product is running.

When working on walls, ceilings, or floors, take care to avoid electric cables, gas pipes, or water pipes.

Clamp the workpiece with a clamping device. Unclamped workpieces can cause severe injury and damage.

SPECIFIED CONDITIONS OF USE

The product can be used to tighten and loosen nuts and bolts whenever no main connection is available.

Do not use the product for any other purpose.

RESIDUAL RISKS

Even when the product is used as prescribed, it is still impossible to completely eliminate certain residual risk factors. The following hazards may arise during use and the operator should pay special attention to avoid the following:

- injury caused by vibration
  - Hold the product by designated handles and restrict working time and exposure.
- hearing injury caused by exposure to noise
  - Restrict exposure and wear appropriate hearing protection.
- injuries due to flying debris
  - Wear appropriate personal protective equipment, heavy long trousers, gloves, substantial footwear, and safety glasses, at all times.
- health hazards caused by breathing toxic dusts
  - Wear a mask if necessary.

ATTACHING/REMOVING ACCESSORIES

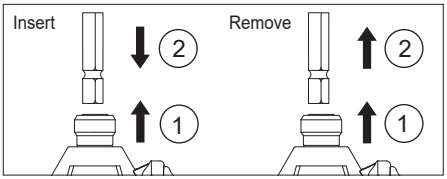
The product is intended for use with a drill or driver bit.

To attach a drill or driver bit:

1. Pull out the ring.
2. Press the shank of the bit into the hex drive chuck.

To remove the drill or driver bit:

1. Pull out the ring.
2. Remove the drill or driver bit.
3. Release the ring.



OPERATION

NOTE: It is recommended after fastening to always check the torque with a torque wrench.

The fastening torque is affected by a wide variety of factors including the following.

- State of battery charge – When the battery is discharged, the voltage can drop and the fastening torque can be reduced.
- Operation at speeds – Operating the product at low speeds can cause a reduction in fastening torques.
- Fastening position – Holding the product or the driving fastener in various angles can affect the torque.
- Drive accessory/socket – Failure to use the correct size accessory or socket or a non-impact rated accessory may cause a reduction in the fastening torque.
- The use of accessories and extensions – Depending on the accessory or extension fitment can reduce the fastening force of the impact wrench.
- Bolt/Nut – Fastening torques may differ according to the diameter of the nut or bolt, the class of nut/bolt, and the length of nut/bolt.
- Condition of the fastener – Contaminated, corroded, dry, or lubricated fasteners may vary the fastening torques.
- Condition and base material – The base material of the fastener and any component in between the surfaces may effect the fastening torque (dry or lubricated base, soft or hard base, disc, seal or washer between fastener and base material).

IMPACTING TECHNIQUES

The longer a bolt, screw, or nut is impacted, the tighter it becomes.

To help prevent damaging the fasteners or workpieces, avoid excessive impacting.

Be particularly careful when impacting smaller fasteners because they require less impacting to reach optimum torque.

Practice with various fasteners, noting the length of time required to reach the preferred torque.

Check the tightness with a hand-torque wrench.

If the fasteners are too tight, reduce the impacting time.

If they are not tight enough, increase the impacting time.

Oil, dirt, rust, or other matter on the threads or under the head of the fastener affects the degree of tightness.

The torque required to loosen a fastener averages 75% to 80% of the tightening torque, depending on the condition of the contacting surfaces.

On light gasket jobs, run each fastener down to a relatively light torque and use a hand torque wrench for final tightening.

BATTERY SAFETY INSTRUCTIONS

Do not dispose of used battery packs in the household refuse or by burning them. MILWAUKEE distributors offer to retrieve old batteries to protect our environment.

Do not store the battery pack together with metal objects (short circuit risk).

Use only M18 System chargers for charging M18 System battery packs. Do not use battery packs from other systems.

Never break open battery packs and chargers, and store them only in dry rooms. Keep the battery packs and chargers dry at all times.

Battery acid may leak from damaged batteries under extreme load or extreme temperatures. In case of contact with battery acid, wash it off immediately with soap and water. In case of eye contact, rinse thoroughly for at least 10 minutes and immediately seek medical attention.

No metal parts must be allowed to enter the battery section of the charger (short circuit risk).

ADDITIONAL BATTERY SAFETY WARNINGS

WARNING! To reduce the risk of fire, personal injury, and product damage due to a short circuit, never immerse the product, battery pack, or charger in fluid or allow fluid to flow inside them. Corrosive or conductive fluids, such as seawater, certain industrial chemicals, and bleach or bleach-containing products, etc., can cause a short circuit.

BATTERIES

Battery packs that have not been used for some time should be recharged before use.

Temperatures in excess of 50 °C reduce the performance of the battery pack. Avoid extended exposure to heat or sunshine (risk of overheating).

The contacts of the chargers and battery packs must be kept clean.

For an optimum lifetime, the battery packs have to be fully charged after use.

To obtain the longest possible battery life, remove the battery pack from the charger once it is fully charged.

For battery pack storage longer than 30 days:

- Store the battery pack where the temperature is below 27 °C and away from moisture.
- Store the battery packs in a 30% – 50% charged condition.
- Every six months of storage, charge the pack as normal.

BATTERY PACK PROTECTION

In extremely high torque, binding, stalling, and short circuit situations that cause high current draw, the product vibrates for about 5 seconds, the fuel gauge flashes, and then the product turns off. To reset, release the trigger.

Under extreme circumstances, the internal temperature of the battery pack could raise too much. If this happens, the fuel gauge flashes until the battery pack cools down. After the lights go off, continue working.

TRANSPORTING LITHIUM BATTERIES

Lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.

Transportation of those batteries has to be done in accordance with local, national, and international provisions and regulations.

Batteries can be transported by road without further requirements.

Commercial transport of lithium-ion batteries by third parties is subject to Dangerous Goods Regulations. Transport preparation and transport are exclusively to be carried out by appropriately trained persons and the process has to be accompanied by corresponding experts.

When transporting batteries:

- Ensure that the battery contact terminals are protected and insulated to prevent short circuit.
- Ensure that the battery pack is secured against movement within the packaging.
- Do not transport batteries that are cracked or leaking.
- Check with the forwarding company for further advice.

CLEANING

The ventilation slots of the product must be kept clear at all times.

MAINTENANCE

Use only MILWAUKEE accessories and MILWAUKEE spare parts. Should components that have not been described need to be replaced, contact one of our MILWAUKEE service centres (see our list of guarantee or service addresses). If needed, an exploded view of the product can be ordered. State the product type and the serial number on the label, and order the drawing at your local service centres.

SYMBOLS

	Read the instructions carefully before starting the product.
	CAUTION! WARNING! DANGER!
	Remove the battery pack before starting any work on the product.
n_0	No-load speed
n	Impact range
V	Voltage
⎓	Direct current