

**ROTAKE®**

Tools change the world.

**2025** Product Catalogue  
Industrial Smart Cordless Tools

# ROTAKE®



Group Headquarter

ROTAKE GROUP CO., LTD

Changsha, China



Manufacturing Center

ROTAKE MACHINERY (JIAXING) CO., LTD

Tongxiang, China

## VISION

To become a world-class innovative tools company

## MISSION

Tools change the world

## VALUE

Innovation, Responsibility, Sincerity, Altruism

## GROUP INFORMATION

Dedicated to the R&D of professional smart cordless tools, ROTAKE is the world's leading manufacturer of smart impact wrenches and China's leading manufacturer of new-generation smart cordless tools.

It focuses on smart impact wrenches for professional use, boasts strategic partners and sales and service networks in 83 countries and regions, and emerges as a well-known brand in the tool industry with global influence.

The new generation of cordless impact drivers, ratchet wrenches, impact drills, grinders and hammers, are widely used in a variety of fields such as automobile and equipment repair and maintenance, workshop production, road and bridge construction, building and construction, home furnishing and so on.

Founded in 2010, ROTAKE has its global operation and R&D headquarter in Changsha and invested \$15 million to build a 30,000m<sup>2</sup> manufacturing center in Tongxiang, Zhejiang Province.

ROTAKE adheres to the innovation-driven development strategy to produce premium products using cutting-edge technology. Here, R&D teams work in world-class laboratories, together with the sales team, strive to provide high-performance products and localized professional services for customers around the world.

ROTAKE has been awarded Top Ten Influential Brands in China's Automotive Repair and Maintenance Industry and Top Ten Maintenance Tool Brands and rated as a National High-Tech Enterprise.

In keeping with its mission—Tools change the world, ROTAKE is devoted to becoming a world-class innovative tools company.

## BRAND HISTORY

- 2010** A 50 m<sup>2</sup> start-up set up in Hangzhou
- 2011** Invested and built own factory in Hangzhou
- 2012** Partnered with America's leading retailer of quality tools
- 2013** Awarded the honor of Top Ten Influential Brands in China's Automotive Repair and Maintenance Industry and Top Ten Maintenance Tool Brands
- 2014** Opened Changsha Branch
- 2016** Became the leading exporter of air impact wrenches in China, with products exporting to over 50 countries
- 2017** Initiated long-term cooperation with global market leader in auto maintenance industry as well as famous tool brand in Europe
- 2018** Launched strategic cooperation with Russian leading brands of auto maintenance and tools
- 2019** Invested \$15 million to build a new manufacturing center - Rotake Machinery (Jiaxing) Co., Ltd in Tongxiang, Zhejiang
- 2020** Put forward the "innovation-driven" development strategy and prioritized the growth of new-generation smart cordless tools
- 2022** Earned the title of National High-tech Enterprise
- 2023** Established Changsha branch as our global headquarter for operations and R&D to globalize business, services and talents
- 2024** Successfully launched a new generation of smart cordless tools, opening up a new era of smart cordless tools.

# The New Generation of Smart Cordless Tools

Rotake boasts strategic partners and sales & service networks in **83** countries and regions



# ROTAKE®

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**BRUSHLESS  
MOTOR**

**Brushless Motor**

- Electronically commutated, spark-free and reliable operation, brushless design, extended life and maintenance-free.
- Its small size and light weight design improves the power density and reduce the size and weight of the whole machine. At the same time, the characteristics of high torque, high speed and high efficiency help reduce energy consumption and extend the endurance of the equipment.
- It uses high-quality rare earth magnets and pure copper enameled wire, which can easily cope with continuous heavy-duty application.



**IDC**

**Integrated Die-casting Technology**

- The pioneer innovation in the industry, three-in-one die-casting technology, integrates the gearbox housing, output shaft sleeve, and output shaft gasket of the impact wrench into one part.
- Easier assembly, more reliable structure, and more convenient maintenance.
- The output shaft is installed with positioning, which has higher precision and smaller runout.



**RFC**

**Reaction Force Control Technology**

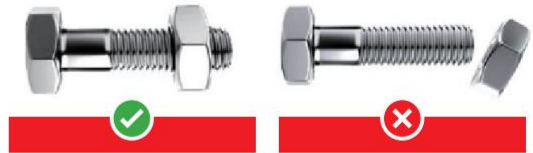
- **Real-time monitoring of the machine acceleration by gyroscope. Once the set value is exceeded, the machine will automatically stop.**
- **The function will be automatically stimulated during the operation of the machine to protect the operator from injury.**
  - E.g. high torque cordless drill: if the drill bit is jammed, RFC will automatically power off to prevent the operator's hand from being thrown off and twisted.
  - E.g. angle grinder: if the grinding/cutting blade is jammed, RFC will automatically power off to prevent the machine from rebounding and falling out of the operator's hand.



## Smart Control Mode

### ▶ Tightening Auto-stop Mode:

When tightening the bolt, the controller automatically determines whether the nut fits the workpiece, and automatically shuts down the machine when the impact time reaches the set target. The longer the impact time of the cordless wrench, the greater the locking torque of the bolt, which greatly improves the consistency of the bolt tightening torque.



### ▶ Loosening Speed-reduction Mode:

When removing the bolt, the cordless wrench first impacts at full speed, and the controller automatically determines whether the nut leaves the workpiece. If there is no impact, it immediately reduces the speed. The function can avoid the risk of nuts/bolts coming off the machine and falling when the operator fails to stop the machine in time.



## LED Shadowless Lighting System

- Composed of two or more LEDs.
- No fear of obstruction, suitable for narrow and dark environment operations.
- When the battery pack is plugged in or the trigger is pulled, the LED automatically lights up.
- The system has a delayed extinguishing function, and the LED automatically switches to standby mode.



## Constant Speed Control

### ▶ Using Hall sensing element to monitor the position of rotor assy in real time and precisely control the motor output speed.

- Within the rated load range, the machine does not drop speed and always runs at a constant speed to improve work efficiency.
- The machine will only drop speed when the load exceeds the rated value to prevent excessive power and frequent machine protection.

# 20V<sub>New</sub>

## Smart Battery Platform

### Quintuple Protection



Overcharge  
Protection



Over Discharge  
Protection



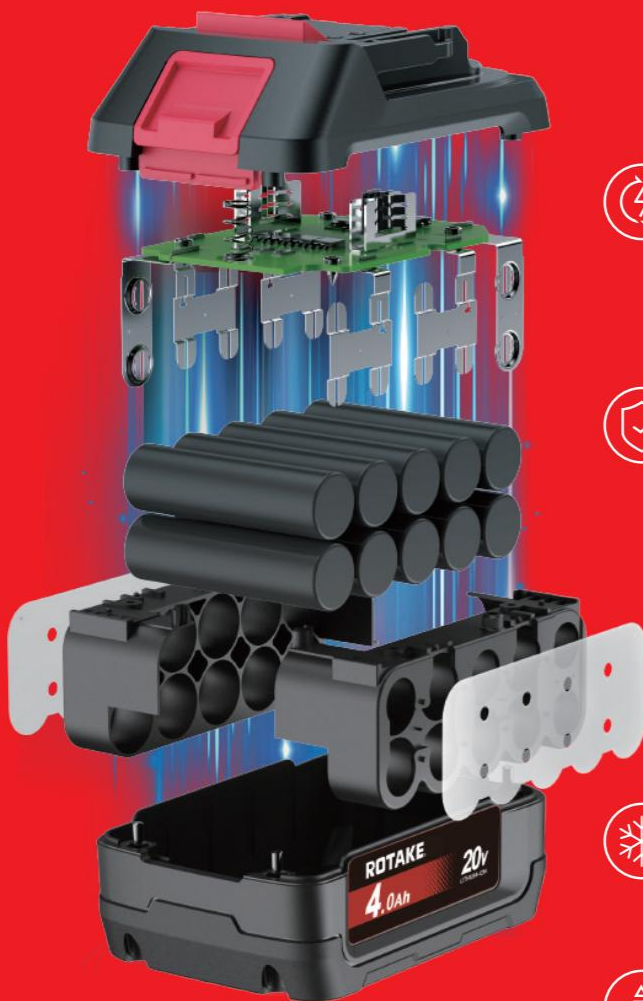
Overcurrent  
Protection



Short Circuit  
Protection



Temperature Control  
Protection



#### High Multiplying Power, Strong Output

The world's leading brand of high-rate ternary Li-ion battery cells are selected to ensure the strong output of high-power products.

High energy density design supports long-term continuous operation of power tools, reduces frequent charging, and improves work efficiency.



#### Long Life, Durable

Matching the T series smart impact wrench, the measured cycle life of the machine under harsh application conditions is 500 cycles, and the remaining capacity is  $\geq 80\%$  of the initial capacity.



#### High Security, Double Protection of Charge and Discharge

Dual charging and discharging protection BMS system accurately monitors battery status. Provides remaining power display, overcharge, over-discharge, and over-temperature protection, and cuts off the circuit under abnormal conditions to ensure safe and stable operation of the battery, extend battery life, and ensure safe charging and discharging. The products have passed strict international safety certifications, such as CE, PES, KC, UL etc.



#### High Performance, Low Temperature Resistance

The low temperature environment of  $-20^{\circ}\text{C}$  can still provide reliable and strong output.



#### Reliable Structure

light-weight and compact design. The bottom of the shell is rubber-coated, maximum operator comfort and slip-resistant.

Passed 2m drop test, drop-resistant and crash-resistant.



**2.0Ah** 20B2  
121\*79\*51 mm  
0.4 kg



**4.0Ah** 20B4  
121\*79\*70 mm  
0.67kg



**5.0Ah** 20B5  
121\*79\*70 mm  
0.7kg



**6.0Ah** 20B6  
121\*79\*89 mm  
0.97kg



**8.0Ah** 20B8  
136\*84\*80 mm  
0.98kg

## Charging Time



| Battery \ Charger | 18C2.5            | 18C4              | 18C2D             | 18C4D             |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| 20B2              | <b>58</b><br>min  | <b>36</b><br>min  | <b>72</b><br>min  | <b>36</b><br>min  |
| 20B4              | <b>116</b><br>min | <b>72</b><br>min  | <b>144</b><br>min | <b>72</b><br>min  |
| 20B5              | <b>144</b><br>min | <b>92</b><br>min  | <b>180</b><br>min | <b>92</b><br>min  |
| 20B6              | <b>172</b><br>min | <b>110</b><br>min | <b>216</b><br>min | <b>110</b><br>min |
| 20B8              | <b>230</b><br>min | <b>144</b><br>min | <b>288</b><br>min | <b>144</b><br>min |



**One battery, more tools!**

# New Generation **16V**

## Battery Platform

Compact and Powerful



**2.0Ah**

16B2  
51\*51\*84mm  
0.24kg



**4.0Ah**

16B4  
99.5\*74\*106mm  
0.44kg



**Charger**

16C2  
131\*80\*52mm  
0.24kg

**72mins** Full charge  
for 2.0Ah Battery

**ROTAKE®**

**Impact Wrenches**

**SMARTER  
STRONGER  
TOUGHER**



- Smart control, automatic stop when tightening, speed reduction when loosening.
- Brushless motor, strong power, equipped with a new 18V smart charging platform, longer battery life and efficient operation.
- Forward and reverse modes, three gears to switch at will.
- Front shadowless dual LED lights, delayed LED off, and smart standby.

# T-SERIES SMART IMPACT WRENCH



## Front Shadowless Dual LED Lights

Wide range lighting, clear and precise



## 3-speed Control



## Complete TPE Soft Rubber Protection

No worry of falling



## CFD Cooling System

Efficient heat dissipation,  
longer lasting heavy load

## TPE Rubber Handle

Shock absorption and anti-slip,  
comfortable operation

## Smart Control



## Multi-point of Lanyard, Lace-up Design

safety and convenience



**Strong Power**  
Longer Battery Life



**Smart Control**  
Multiple Efficiency



**Excellent Performance**  
Quality Choice

## Application



Auto repair



Large tower  
crane installation



Wind power nuclear  
power UHV



Road and bridge  
construction

# T1S Lightweight Smart Impact Wrench

Max. Fastening Torque  
**380Nm**

Body Smaller  
**20%**

Weight Lighter  
**15%**

## Scaffolding Expert

- Smart control, stop when tightened
- Forward and reverse mode, 2-speed to switch
- Brushless motor, strong power
- Intergrated front LED shadowless light

## T1S

### 1/2" Lightweight Impact Wrench

**Application** Tire Removal | Industrial Machinery Assembly & Disassembly | Construction Applications



|                                |              |
|--------------------------------|--------------|
| Square Size (inch)             | 1/2"         |
| Rated Voltage (V)              | 20           |
| Motor Type                     | Brushless DC |
| No-Load Speed (RPM)            | 2700         |
| Impact Per Minute (IPM)        | 4100         |
| Max. Fastening Torque (Nm)     | 380          |
| <b>Nut Busting Torque (Nm)</b> | <b>580</b>   |
| Net Weight (Kg)                | 1.00         |
| L*W*H Without Battery (mm)     | 140×76×200   |



## T11

### 1/2" Stubby Impact Wrench

**Application** Shelf Work | Auto Repair | Furniture Assembly | Machinery Maintenance  
Shelf Disassembly & Assembly etc.



- Compact body, lightweight and portable
- Smart control: automatic stop in forward rotation, deceleration in reverse rotation
- 3-speed control
- Widely used in different applications

|                                |                |
|--------------------------------|----------------|
| Square Size (inch)             | 1/2"           |
| Rated Voltage (V)              | 16             |
| Motor Type                     | Brushless DC   |
| No-load Speed (RPM)            | 2700/2000/1400 |
| Impact Per Minute (IPM)        | 3200/2400/1600 |
| Max. Fastening Torque (Nm)     | 520            |
| <b>Nut Busting Torque (Nm)</b> | <b>750</b>     |
| Net Weight (Kg)                | 0.98           |
| L*W*H Without Battery (mm)     | 124×66×208     |



## T2S

### 1/2" Mid-Torque Impact Wrench

**Application** Tire | Auto Repair | Steel Structure | Equipment ect.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                |                |
|--------------------------------|----------------|
| Square Size (inch)             | 1/2"           |
| Rated Voltage (V)              | 20             |
| Motor Type                     | Brushless DC   |
| No-Load Speed (RPM)            | 2500/2000/1500 |
| Impact Per Minute (IPM)        | 2700/2200/1600 |
| Max. Fastening Torque (Nm)     | 900            |
| <b>Nut Busting Torque (Nm)</b> | <b>1180</b>    |
| Net Weight (Kg)                | 1.75           |
| L*W*H Without Battery (mm)     | 170×76×217     |





# Just Do It.

## T1

### Compact Impact Wrench



**“ Small Body, Hercules ”**

Although it is small, it has amazing explosive power like a Hercules . It can easily handle narrow spaces and apply force accurately. Every rotation is a brave challenge to traditional constraints. It is a nimble dancer on the scaffolding, a hidden force in the mechanical repair industry, an efficiency star in the auto repair workshop, and a capable assistant on the factory production line.



## T2

### Mid- Torque Impact Wrench



**“ Tire Service, the Best ”**

It is a star product in the auto repair industry, a must-have for every tire brother, and a reliable choice for steel structure reinforcement and heavy equipment maintenance. Its precisely controlled medium torque output ensures that the operation is fast and safe, making every operation as smooth as flowing water.



## T3

### High Torque Impact Wrench



**“ The 1/2" Impact Wrench, KING ”**

T3 is not only the pinnacle of power, but also the synonym of efficiency. Whether it is giant bolts in the field of auto repair or heavy parts of construction machinery, T3 can easily break down all resistance with its thunderous force. Its excellent performance and stability make it a reliable assistant for professionals. Choosing T3 means choosing a double feast of power and efficiency.



|           | Square Size | No Load Speed(RPM) | Impact Per Minute(IPM) | Max. Fastening Torque (Nm) | Nut Busting Torque(Nm) | Weight Without Battery(Kg) | L*W*H Without Battery(mm) |
|-----------|-------------|--------------------|------------------------|----------------------------|------------------------|----------------------------|---------------------------|
| <b>T1</b> | 1/2"        | 2700/2200/1700     | 3700/3000/2300         | 580                        | <b>780</b>             | 1.20                       | 133*76*211                |
| <b>T2</b> | 1/2"        | 2500/2000 /1500    | 2700/2200 /1600        | 900                        | <b>1180</b>            | 1.85                       | 170*76*228                |
| <b>T3</b> | 1/2"        | 1800/1500/1000     | 2300/1800/1400         | 1200                       | <b>1880</b>            | 2.90                       | 206*85*231                |

## T2

### 1/2" Mid-Torque Impact Wrench

**Application** Tire | Auto Repair | Steel Structure | Equipment ect.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T2              | T2-40D          | T2-60D          |
|--------------------------------|-----------------|-----------------|-----------------|
| Battery                        | —               | 4.0Ahx2         | 6.0Ahx2         |
| Charger                        | —               | 2.5A×1          | 2.5A×1          |
| Square Size (Inch)             | 1/2"            | 1/2"            | 1/2"            |
| Rated Voltage (V)              | 20              | 20              | 20              |
| No-Load Speed (RPM)            | 2500/2000 /1500 | 2500/2000 /1500 | 2500/2000 /1500 |
| Impact Per Minute (IPM)        | 2700/2200 /1600 | 2700/2200 /1600 | 2700/2200 /1600 |
| Max. Fastening Torque (Nm)     | 900             | 900             | 900             |
| <b>Nut Busting Torque (Nm)</b> | <b>1180</b>     | <b>1180</b>     | <b>1180</b>     |
| Weight (Kg)                    | 1.85            | 3.20            | 3.75            |
| Size L*W*H (mm)                | 170x76x228      | 170x76x277      | 170x76x297      |

**Tire Service, the Best**



## T1

### 1/2" Compact Impact Wrench

**Application** Scaffolding | Machine Repair | Auto Repair | Factory etc.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T1             | T1-40D         | T1-60          |
|--------------------------------|----------------|----------------|----------------|
| Battery                        | —              | 4.0Ah×2        | 6.0Ah×1        |
| Charger                        | —              | 2.5A×1         | 2.5A×1         |
| Square Size (Inch)             | 1/2"           | 1/2"           | 1/2"           |
| Rated Voltage (V)              | 20             | 20             | 20             |
| No-Load Speed (RPM)            | 2700/2200/1700 | 2700/2200/1700 | 2700/2200/1700 |
| Impact Per Minute (IPM)        | 3700/3000/2300 | 3700/3000/2300 | 3700/3000/2300 |
| Max. Fastening Torque (Nm)     | 580            | 580            | 580            |
| <b>Nut Busting Torque (Nm)</b> | <b>780</b>     | <b>780</b>     | <b>780</b>     |
| Weight (Kg)                    | 1.20           | 2.55           | 2.15           |
| Size L*W*H (mm)                | 133x76x211     | 133x76x261     | 133x76x280     |

**Small Body, Hercules**



# T3

## 1/2" High-Torque Impact Wrench

**Application** Auto Repair | Construction Machinery | Equipment | Electricity etc.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T3             | T3-40D         | T3-60D         |
|--------------------------------|----------------|----------------|----------------|
| Battery                        | —              | 4.0Ahx2        | 6.0Ahx2        |
| Charger                        | —              | 2.5A×1         | 2.5A×1         |
| Square Size (Inch)             | 1/2"           | 1/2"           | 1/2"           |
| Rated Voltage (V)              | 20             | 20             | 20             |
| No-Load Speed (RPM)            | 1800/1500/1000 | 1800/1500/1000 | 1800/1500/1000 |
| Impact Per Minute (IPM)        | 2300/1800/1400 | 2300/1800/1400 | 2300/1800/1400 |
| Max. Fastening Torque (Nm)     | 1200           | 1200           | 1200           |
| <b>Nut Busting Torque (Nm)</b> | <b>1880</b>    | <b>1880</b>    | <b>1880</b>    |
| Weight (Kg)                    | 2.90           | 4.25           | 4.75           |
| Size L*W*H (mm)                | 206x85x231     | 206x85x281     | 206x85x300     |

The 1/2" Impact Wrench **KING**



# T4

## 3/4" High-Torque Impact Wrench

**Application** Auto Repair | Construction Machinery | Equipment | Electricity etc.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Industry-leading battery cells, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T4             | T4-40D         | T4-60D         | T4-80D         |
|--------------------------------|----------------|----------------|----------------|----------------|
| Battery                        | —              | 4.0Ahx2        | 6.0Ahx2        | 8.0Ahx2        |
| Charger                        | —              | 2.5A×1         | 2.5A×1         | 2.5A×1         |
| Square Size (Inch)             | 3/4"           | 3/4"           | 3/4"           | 3/4"           |
| Rated Voltage (V)              | 20             | 20             | 20             | 20             |
| No-Load Speed (RPM)            | 1800/1500/1000 | 1800/1500/1000 | 1800/1500/1000 | 1800/1500/1000 |
| Impact Per Minute (IPM)        | 2300/1800/1400 | 2300/1800/1400 | 2300/1800/1400 | 2300/1800/1400 |
| Max. Fastening Torque (Nm)     | 1300           | 1300           | 1300           | 1300           |
| <b>Nut Busting Torque (Nm)</b> | <b>1980</b>    | <b>1980</b>    | <b>1980</b>    | <b>1980</b>    |
| Weight (Kg)                    | 2.95           | 4.30           | 4.80           | 4.90           |
| Size L*W*H (mm)                | 213x85x231     | 213x85x281     | 213x85x300     | 213x85x288     |



## T5

### 3/4" High-Torque Impact Wrench

**Application** Light Truck | Construction Machinery | Electricity | Railway etc.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T5             | T5-80D         |
|--------------------------------|----------------|----------------|
| Battery                        | 无              | 8.0Ahx2        |
| Charger                        | 无              | 2.5A×1         |
| Square Size (Inch)             | 3/4"           | 3/4"           |
| Rated Voltage (V)              | 20             | 20             |
| No-Load Speed (RPM)            | 1900/1500/1100 | 1900/1500/1100 |
| Impact Per Minute (IPM)        | 2400/1900/1400 | 2400/1900/1400 |
| Max. Fastening Torque (Nm)     | 2100           | 2100           |
| <b>Nut Busting Torque (Nm)</b> | <b>2400</b>    | <b>2400</b>    |
| Weight (Kg)                    | 3.45           | 5.45           |
| Size L*W*H (mm)                | 215x92x235     | 215x92x292     |



## T6

### 1" High-Torque Impact Wrench

**Application** Light Truck | Construction Machinery | Electricity | Railway etc.



- Smart control, Stop when tightened
- Forward and reverse mode, three gears to switch at will
- Brushless motor, strong power
- Top battery cells in the industry, longer battery life
- LED shadowless lighting, no fear of obstruction

|                                | T6             | T6-80D         |
|--------------------------------|----------------|----------------|
| Battery                        | 无              | 8.0Ahx2        |
| Charger                        | 无              | 2.5A×1         |
| Square Size(Inch)              | 1"             | 1"             |
| Rated Voltage (V)              | 20             | 20             |
| No-Load Speed (RPM)            | 1900/1500/1100 | 1900/1500/1100 |
| Impact Per Minute (IPM)        | 2400/1900/1400 | 2400/1900/1400 |
| Max. Fastening Torque (Nm)     | 2200           | 2200           |
| <b>Nut Busting Torque (Nm)</b> | <b>2500</b>    | <b>2500</b>    |
| Weight (Kg)                    | 3.60           | 5.60           |
| Size L*W*H (mm)                | 225x92x235     | 225x92x292     |



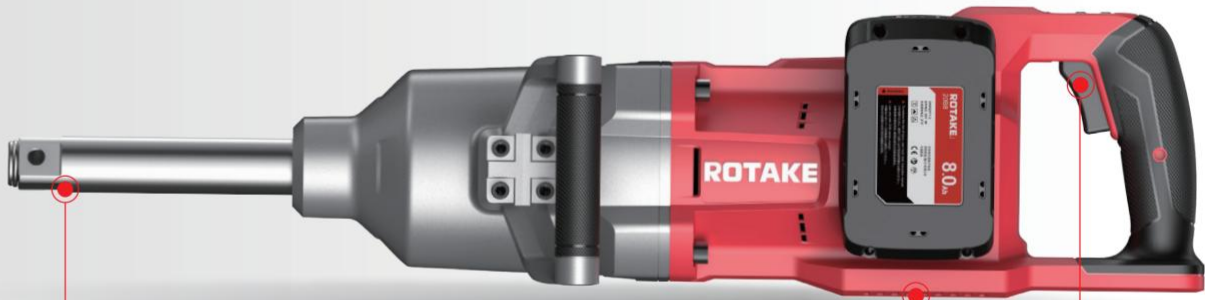
**ROTAKE®**



**Redefining  
Industrial Power**

**Only 10.5Kg Lightweight**

# 4000 N.m Heavy Duty Power



### Max. Nut-busting Torque Up to 4000Nm

Power comparable to 1" pneumatic impact products

### For Truck and Industrial Applications

Wireless force, flexible utilization

### Easy Operation, Smart Control

2-speed control + Smart automatic stop, one-button forward and reverse

### Dual Battery Packs Provide Longer Life

Save working time and increase efficiency



Switching Infinitely  
Variable Speed



IPX5  
Waterproof Design



Overload Protection  
for Mainframe

### Easy Control of Forward and Reverse

One-button control of forward and reverse mode, easy to change the operating requirements



### Battery Pack Cushioning & Vibration Damping Structure

Extends the life of the battery pack on the mainframe



# T9

## 1" High Torque Impact Wrench

**Application** Tire Change | Industrial Machinery | Heavy Truck Maintenance  
Large-scale Construction | Mining | Road and Bridge Construction etc.



- The most powerful cordless impact wrench, the max. nut-busting torque up to 4000Nm
- Efficient and energy-saving, brushless DC motor
- High-quality long shaft for tougher use
- Long endurance, dual battery packs provide stable power
- High quality bearings for durability
- 2-speed control + smart automatic stop, smart operation is more efficient
- Dual handle design for more comfortable grip

|                                     |                |
|-------------------------------------|----------------|
| Square Size (inch)                  | 1"             |
| Rated Voltage (V)                   | 40             |
| Motor Type                          | Brushless DC   |
| No Load Speed (RPM)                 | 1100/900/700   |
| Impact Per Minute (IPM)             | 1600/1300/1000 |
| Max. Fastening Torque (Nm)          | 3200           |
| <b>Max. Nut Busting torque (Nm)</b> | <b>4000</b>    |
| Weight without Battery (Kg)         | 10.50          |
| L*W*H Without Battery (mm)          | 650×138×158    |



## Easily remove and tighten heavy-duty nuts, Designed for high-intensity tasks

ROTAKE 1" Ultra Powerful Smart Impact Wrench skillfully combines the long life of Li-ion battery and precise control of power wrench. With its extraordinary power as the core, not only rivals the excellent torque output of traditional pneumatic tools, but also achieves a qualitative leap in flexibility and portability. It is designed to meet the diverse repair needs of construction machinery, industrial equipment maintenance, heavy trucks, coaches and complex railroad systems, and is your industrial efficiency accelerator.

Construction Machinery

Heavy Trucks

# T9S

## 1" High Torque Impact Wrench

**Application** Tire Change | Industrial Machinery | Heavy Truck Maintenance  
Large-scale Construction | Mining | Road and Bridge Construction etc.



- The most powerful cordless impact wrench, the max. nut-busting torque up to 4000Nm
- Efficient and energy-saving, brushless DC motor
- Long endurance, dual battery packs provide stable power
- High quality bearings for durability
- 2-speed control+ smart automatic stop, smart operation is more efficient
- Dual handle design for more comfortable grip



|                                     |                |
|-------------------------------------|----------------|
| Square Size(inch)                   | 1"             |
| Rated Voltage (V)                   | 40             |
| Motor Type                          | Brushless DC   |
| No Load Speed (RPM)                 | 1100/900/700   |
| Impact Per Minute (IPM)             | 1600/1300/1000 |
| Max. Fastening Torque (Nm)          | 3200           |
| <b>Max. Nut Busting torque (Nm)</b> | <b>4000</b>    |
| Weight without Battery (Kg)         | 9.80           |
| L*W*H Without Battery (mm)          | 540×138×158    |



Railroad Mechanics

Industrial Equipment Maintenance

# ROTAKE®

## Ratchet Wrenches



- The Combination of power and speed provides solutions for automobil manufacturing and maintenance
- Compact head desgin, convenient for working in small spaces

## R1S

### 3/8" Ratchet Wrench

**Application** Auto Repair | Truss Assembly | Mechanical Maintenance  
Steel Frame Construction | Shelf Disassembly etc.



- The combination of power and speed provides solutions for automobile manufacturing and maintenance
- Compact head design, convenient for working in small spaces
- LED lighting to illuminate the work area
- Reinforced mechanical structure, one-piece cast steel head shell

|                            |              |
|----------------------------|--------------|
| Square Size (inch)         | 3/8"         |
| Rated Voltage (V)          | 16           |
| Motor Type                 | Brushless DC |
| No-load Speed (RPM)        | 350          |
| <b>Max. Torque (Nm)</b>    | <b>75</b>    |
| Net Weight (Kg)            | 0.95         |
| L*W*H Without Battery (mm) | 300×51×72    |



## R1

### 3/8" Extended Ratchet Wrench

**Application** Auto Repair | Truss Assembly | Mechanical Maintenance  
Steel Frame Construction | Shelf Disassembly etc.



- The combination of power and speed provides solutions for automobile manufacturing and maintenance
- The shaft length is extended by 106mm and the compact head design facilitates working in small spaces
- LED lighting to illuminate the work area
- Reinforced mechanical structure, one-piece cast steel head shell

|                            |              |
|----------------------------|--------------|
| Square Size (inch)         | 3/8"         |
| Rated Voltage (V)          | 16           |
| Motor Type                 | Brushless DC |
| No-load Speed (RPM)        | 350          |
| <b>Max. Torque (Nm)</b>    | <b>75</b>    |
| Net Weight (Kg)            | 1.05         |
| L*W*H Without Battery (mm) | 405×51×72    |



# 2601

## 3/8" Ratchet Wrench

**Application** Auto Repair | Truss Assembly | Mechanical maintenance | Steel frame construction | shelf disassembly etc.

**CSC** 

- Compact head design, convenient for working in small spaces
- LED lighting to illuminate the work area
- Smart battery indicator, keep abreast of battery status at any time
- One-click lock, easy to operate
- Variable speed switch, flexible switching of work requirements

|                            |           |
|----------------------------|-----------|
| Square Size (inch)         | 3/8"      |
| Rated Voltage (V)          | 12        |
| Motor Type                 | Brush DC  |
| No-load Speed (RPM)        | 280       |
| <b>Max. Torque (Nm)</b>    | <b>40</b> |
| Net Weight (Kg)            | 0.72      |
| L*W*H Without Battery (mm) | 270×48×61 |



## 2602

### 3/8" Extended Ratchet Wrench

**Application** Auto Repair | Truss Assembly | Mechanical maintenance | Steel frame construction | shelf disassembly etc.

**CSC** 

- LED lighting to illuminate the work area
- Smart battery indicator, keep abreast of battery status at any time
- One-click lock, easy to operate
- Variable speed switch, flexible switching of work requirements

|                            |           |
|----------------------------|-----------|
| Square Size (inch)         | 3/8"      |
| Rated Voltage (V)          | 12        |
| Motor Type                 | Brush DC  |
| No-load Speed (RPM)        | 280       |
| <b>Max. Torque (Nm)</b>    | <b>40</b> |
| Net Weight (Kg)            | 1.00      |
| L*W*H Without Battery (mm) | 363×48×61 |



• Precision control in small spaces

# ROTAKE®

## Impact Drivers



- Compact, professional screw driving
- Multi-stage with smart auto-stop detection

## S11

### 1/4" Hex Impact Driver

**Application** Furniture Assembly | Auto Repair | Mechanical Repair | Electrical Repair etc.



- Compact and powerful, professional screw driver
- 3-speed control, equipped with smart screw self-stop
- 180Nm maximum tightening torque
- Powerful motor, improved durability

|                            |                |
|----------------------------|----------------|
| Chuck Size (inch)          | 1/4" HEX       |
| Rated Voltage (V)          | 16             |
| Motor Type                 | Brushless DC   |
| No-load Speed (RPM)        | 3900/3200/2100 |
| Impact Frequency (IPM)     | 4400/3600/2400 |
| <b>Max. Torque (Nm)</b>    | <b>180</b>     |
| Net Weight (Kg)            | 0.75           |
| L*W*H Without Battery (mm) | 125×55×202     |



## S1

### 1/4" Hex Impact Driver

**Application** Scaffolding | Machine Repair | Auto Repair | Factory | Furniture Assembly etc.



- 113mm compact body, easy to operate in small spaces
- 3-speed control, equipped with smart screw self-stop
- 260Nm maximum tightening torque
- Ergonomic design handle

|                            |                |
|----------------------------|----------------|
| Chuck Size (inch)          | 1/4" HEX       |
| Rated Voltage (V)          | 20             |
| Motor Type                 | Brushless DC   |
| No-load Speed (RPM)        | 3900/3100/1700 |
| Impact Frequency (IPM)     | 4900/3800/2200 |
| <b>Max. Torque (Nm)</b>    | <b>260</b>     |
| Net Weight (Kg)            | 1.05           |
| L*W*H Without Battery (mm) | 113×76×207     |



# ROTAKE®

## Driver Drills



- Multiple uses, high and low dual speed, easy to deal with multiple applications
- 20+1 torque settings, application-optimized settings.

## D11

### 1/2" Driver Drills

**Application** Wood Drilling | Steel Drilling | Tile Drilling  
Furniture Installation & Disassembly etc.



- One machine for multiple uses: home decoration, repair etc.,
- Industrial-grade metal chuck, long-term use without drill falling
- High and low dual speeds, easy to deal with multiple scenarios
- 20+1 torque settings, easy to impact drilling
- 142mm compact body, suitable for small space operations
- Forward and reverse can be easily switched with one button

|  |              |
|--|--------------|
| Chuck Size (mm)                        | 13           |
| Rated Voltage (V)                      | 16           |
| Motor Type                             | Brushless DC |
| No-load Speed (RPM)                    | 500/1600     |
| <b>Max. Torque (Nm)</b>                | <b>60</b>    |
| Max. Drilling Capacity - Wood (mm)     | 35           |
| Max. Drilling Capacity - Steel (mm)    | 13           |
| Max. Drilling Capacity - Concrete (mm) | N/A          |
| Impact Per Minute (IPM)                | N/A          |
| Net Weight of Bare Machine (Kg)        | 0.99         |
| L*W*H Without Battery (mm)             | 142x59x216   |

## D1

### 1/2" Driver Drills

**Application** Screw Tightening | Steel Drilling | Wood Drilling | Tile Drilling etc.



- Powerful force, strong impact, one machine for multiple uses
- Industrial-grade metal chuck, long-term use without drill falling
- High and low dual speeds, easy to deal with multiple scenarios
- 20+1 torque settings, easy to impact drilling
- Variable speed switch, forward and reverse can be easily switched with one button

|  |              |
|--|--------------|
| Chuck Size (mm)                        | 13           |
| Rated Voltage (V)                      | 20           |
| Motor Type                             | Brushless DC |
| No-load Speed (RPM)                    | 500/1700     |
| <b>Max. Torque (Nm)</b>                | <b>70</b>    |
| Max. Drilling Capacity - Wood (mm)     | 40           |
| Max. Drilling Capacity - Steel (mm)    | 13           |
| Max. Drilling Capacity - Concrete (mm) | N/A          |
| Impact Per Minute (IPM)                | N/A          |
| Net Weight of Bare Machine (Kg)        | 1.05         |
| L*W*H Without Battery (mm)             | 146x76x206   |

# ROTAKE®

## Hammer Drills

- Rotake's new generation of brushless motors provide longer motor life and more power.
- The new gearbox design provides more power in a smaller size, and the drilling efficiency is 30% higher than the previous generation.
- The fully black-oxidized metal chuck improves corrosion resistance in harsh environments.



# Smart Speed Control Efficient Drilling & Screwing

## New Gearbox Design

smaller size provides stronger power, drilling efficiency increased by 30%

↑  
30%



Drilling



Screwing



Impacting



## Industrial Durable Metal Self-locking Chuck

Chucking range: 1.5–13mm, drop-resistant and durable

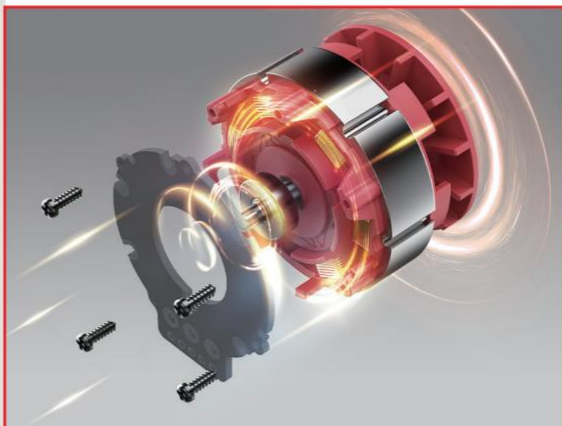
## Electronic Anti-twisting Function

Stop immediately in case of emergency, reducing the risk of sprains



## Upgraded Sensored Brushless Motor + Constant Speed Control

Constant speed makes drilling more efficient



## 20+2 Torque Setting: Adapt to Different Working Conditions

High-speed setting can easily handle high-torque toughening operations, smoothly without jamming.



# **D11H**

## 1/2" Hammer Drill

**Application** Wood Drilling | Steel Drilling | Tile Drilling  
Furniture Installation & Disassembly etc.



- One machine for multiple uses: home decoration, repair etc.,
- Industrial-grade metal chuck, long-term use without drill falling
- High and low dual speeds, easy to deal with multiple scenarios
- 20+2 torque settings, easy to impact drilling
- 154mm compact body, suitable for small space operations
- Forward and reverse can be easily switched with one button

|  |              |
|--|--------------|
| Chuck Size (mm)                        | 13           |
| Rated Voltage (V)                      | 16           |
| Motor Type                             | Brushless DC |
| No-load Speed (RPM)                    | 450/1600     |
| <b>Max. Torque (Nm)</b>                | <b>60</b>    |
| Max. Drilling Capacity - Wood (mm)     | 35           |
| Max. Drilling Capacity - Steel (mm)    | 13           |
| Max. Drilling Capacity - Concrete (mm) | 13           |
| Impact Per Minute (IPM)                | 7500/24000   |
| Net Weight of Bare Machine (Kg)        | 1.09         |
| L*W*H without battery (mm)             | 154*59*219   |



# **D1H**

## 1/2" Hammer Drill

**Application** Screw Tightening | Steel Drilling | Wood Drilling | Tile Drilling etc.



- Powerful force, strong impact, one machine for multiple uses
- Industrial-grade metal chuck, long-term use without drill falling
- High and low dual speeds, easy to deal with multiple scenarios
- 20+2 torque settings, easy to impact drilling
- Variable speed switch, forward and reverse can be easily switched with one button

|  |              |
|--|--------------|
| Chuck Size (mm)                        | 13           |
| Rated Voltage (V)                      | 20           |
| Motor Type                             | Brushless DC |
| No-load Speed (RPM)                    | 500/1700     |
| <b>Max. Torque (Nm)</b>                | <b>70</b>    |
| Max. Drilling Capacity - Wood (mm)     | 40           |
| Max. Drilling Capacity - Steel (mm)    | 13           |
| Max. Drilling Capacity - Concrete (mm) | 13           |
| Impact Per Minute (IPM)                | 8250/25500   |
| Net Weight of Bare Machine (Kg)        | 1.15         |
| L*W*H without battery (mm)             | 158*76*206   |



# /// D2H

## 1/2" Hammer Drill

**Application** Wood Drilling | Steel Drilling | Tile Drilling  
Furniture Installation & Disassembly etc.

**RFC CSC** **BRUSHLESS MOTOR**      

- Powerful force, strong impact, expert in wall drilling
- Industrial-grade metal chuck, long-term use without drill falling
- High and low dual speeds, easy to deal with multiple scenarios.
- 20+2 torque settings, easy to impact drilling
- Variable speed switch, forward and reverse can be easily switched with one button
- Class A high capacity battery, longer battery life

|  |              |
|--|--------------|
| Chuck Size (mm)                        | 13           |
| Rated Voltage (V)                      | 20           |
| Motor Type                             | Brushless DC |
| No-load Speed (RPM)                    | 500/2200     |
| <b>Max. Torque (Nm)</b>                | <b>120</b>   |
| Max. Drilling Capacity – Wood (mm)     | 40           |
| Max. Drilling Capacity – Steel (mm)    | 13           |
| Max. Drilling Capacity – Concrete (mm) | 13           |
| Impact Per Minute (IPM)                | 9500/40000   |
| Net Weight of Bare Machine (Kg)        | 1.40         |
| L*W*H without battery (mm)             | 184×76×208   |



# ROTAKE®

## Rotary Hammers



- Multiple uses, 4-Mode rotary selector, function selected as you like
- SDS-Plus Quick-Change chuck
- Electronic Clutch with Overload Protection

# High-Efficiency Wall Drilling with Powerful Performance

## SDS-Plus Quick-Change Chuck

One push and insert can quickly replace the attachment, secure clamping ensures stable operation even under heavy impact

## Large-Bore Cylinder

Double drilling efficiency

## AVS

Reduce vibration for comfortable operation

## Forward/Reverse Switch

Quickly resolves bit jamming

## Variable Speed Trigger

Adjust speed by pressing the switch; sensitive button for easy operation

## RFC

Electronic clutch with overload protection

## LED Light

Reliable operation in the dark

## 4-Mode Rotary Selector

Chiseling Rotation / Hammering Only / Rotary Hammer / Drilling; select modes as needed

## 360° Rotating Auxiliary Handle

Adjustable for various working conditions



Chiseling Rotation



Hammering Only



Rotary Hammer



Drilling

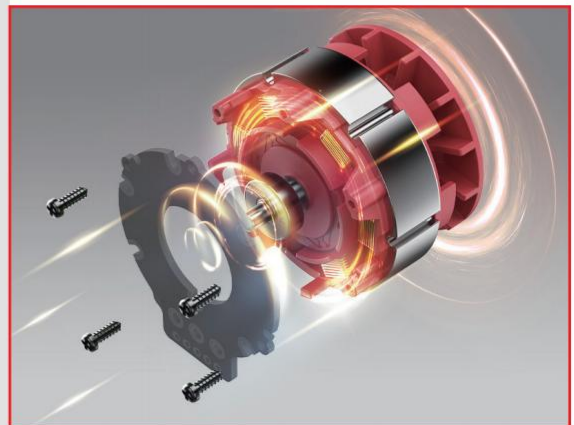
## Electronic Clutch

The RFC safety control system automatically engages during bit jamming to prevent rotational kickback and protect wrists from injury.



## DC Brushless Motor

High efficiency with low energy consumption, regular carbon brush maintenance or replacement is not needed.



# H1

## 22mm SDS-Plus Rotary Hammer

**Application** Construction | Renovation | Furniture Fabrication | Municipal Engineering | Utility Maintenance

**RFC CSC** BRUSHLESS MOTOR        

- RFC electronic clutch safety protection
- AVS Anti-Vibration system for more comfortable operation
- 4-Mode rotary selector with high efficiency and multi-function
- SDS-Plus chuck for quick bit change and easy installation without falling

|                             |                                  |
|-----------------------------|----------------------------------|
| Rated Voltage (V)           | 20                               |
| <b>Impact Energy (J)</b>    | <b>2.0</b>                       |
| No-Load Speed (RPM)         | 1380                             |
| Impact Rate (IPM)           | 5020                             |
| Max Drilling Diameter (mm)  | Concrete 22   Metal 13   Wood 28 |
| Optimal Drilling Range (mm) | 6-12                             |
| Net Weight (Kg)             | 1.75                             |
| L*W*H Without Battery (mm)  | 270x76x175                       |



# 8901

## 22mm SDS-Plus Rotary Hammer

**Application** Construction | Renovation | Furniture Fabrication | Municipal Engineering | Utility Maintenance

BRUSHLESS MOTOR      

- 4-Mode rotary selector with high efficiency and multi-function
- Forward/reverse switch quickly resolves bit jamming
- Variable speed trigger with sensitive button for easy operation
- SDS-Plus Chuck for quick bit change and easy installation without falling
- LED lights clearly illuminate dark workspace

|                             |                                  |
|-----------------------------|----------------------------------|
| Rated Voltage (V)           | 20                               |
| <b>Impact Energy (J)</b>    | <b>1.7</b>                       |
| No-Load Speed (RPM)         | 1180                             |
| Impact Rate (IPM)           | 4200                             |
| Max Drilling Diameter (mm)  | Concrete 22   Metal 13   Wood 28 |
| Optimal Drilling Range (mm) | 6-12                             |
| Net Weight (Kg)             | 1.85                             |
| L*W*H Without Battery (mm)  | 286x83x197                       |



## 8902

### 26mm SDS-Plus Rotary Hammer

**Application** Construction | Renovation | Furniture Fabrication | Municipal Engineering | Utility Maintenance



- 4-Mode rotary selector with high efficiency and multi-function
- Forward/reverse switch quickly resolves bit jamming
- Variable speed trigger with sensitive button for easy operation
- SDS-Plus Chuck for quick bit change and easy installation without falling
- LED lights clearly illuminate dark workspace

|                             |                                  |
|-----------------------------|----------------------------------|
| Rated Voltage (V)           | 20                               |
| <b>Impact Energy (J)</b>    | <b>2.6</b>                       |
| No-Load Speed (RPM)         | 1200                             |
| Impact Rate (IPM)           | 4400                             |
| Max Drilling Diameter (mm)  | Concrete 26   Metal 13   Wood 30 |
| Optimal Drilling Range (mm) | 6-16                             |
| Net Weight (Kg)             | 2.30                             |
| L*W*H Without Battery (mm)  | 395x80x190                       |



## 8903

### 28mm SDS-Plus Rotary Hammer

**Application** Construction | Renovation | Furniture Fabrication | Municipal Engineering | Utility Maintenance



- 4-Mode rotary selector with high efficiency and mult
- Forward/reverse switch quickly resolves bit jamming
- Variable speed trigger with sensitive button for easy
- SDS-Plus Chuck for quick bit change and easy install
- LED lights clearly illuminate dark workspace

|                             |                                  |
|-----------------------------|----------------------------------|
| Rated Voltage (V)           | 20                               |
| <b>Impact Energy (J)</b>    | <b>3.0</b>                       |
| No-Load Speed (RPM)         | 1250                             |
| Impact Rate (IPM)           | 4600                             |
| Max Drilling Diameter (mm)  | Concrete 28   Metal 13   Wood 30 |
| Optimal Drilling Range (mm) | 6-18                             |
| Net Weight (Kg)             | 2.50                             |
| L*W*H Without Battery (mm)  | 400x80x190                       |



**ROTAKE®**



## Industrial Braking Angle Grinders

- Suitable for cutting, metal processing, ceramic tile decoration, industrial construction, auto maintenance etc., with rich application scenarios
- Shock-resistant side handle to reduce vibration
- With anti-recoil protection, restart protection and overload protection system
- Electronic brake, quick stop
- 800W maximum output power, comparable to AC tools

### Electronic Brake

Quick stop

### 135mm Slim Handle

Long-lasting work without tiring your hands

### Double Protection

Protection Switch + Restart Protection

### 800W Maximum Output Power

Comparable to AC tools



#### Soft Start

The grinding disc starts from slow to fast speed and reaches the highest speed to avoid slipping due to sudden start.



#### Restart Protection

When the switch is on, the machine will not start after inserting the battery and needs to be turned on again to be used normally.



#### Anti-recoil Protection

When the cutting disc gets stuck, it effectively prevents the machine from kicking back.



#### Overload Protection

When the operation exceeds the safety limit, the machine stops.

## G1-100

### 100mm Braking Angle Grinder

**Application** Cutting | Metalworking | Equipment Installation | Industrial Construction | Automotive Maintenance

**RFC**     

- High-strength body, ultra-thin and heat-resistant and high-temperature resistant
- Auxiliary handle for stable operation
- Long battery life, high efficiency
- 800W maximum output power, efficient and powerful
- Soft start to avoid losing hands
- 135mm slim handle, balance center without tiring hands



|                                |              |
|--------------------------------|--------------|
| Spindle Size (mm)              | M10          |
| Grinding/Slicing Diameter (mm) | 100          |
| Rated Voltage (V)              | 20           |
| Motor Type                     | Brushless DC |
| No-load Speed (rpm)            | 9500         |
| Max. Cutting Depth (mm)        | 21           |
| Bare Metal Net Weight (Kg)     | 1.58         |
| L*W*H Without Battery (mm)     | 296*118*125  |

## **G1-115**

### 115mm Braking Angle Grinder

**Application** Cutting | Metalworking | Equipment Installation | Industrial Construction | Automotive Maintenance

**RFC** **BRUSHLESS MOTOR** 

- High-strength body, ultra-thin and heat-resistant and high-temperature resistant
- Auxiliary handle for stable operation
- Long battery life, high efficiency
- 800W maximum output power, efficient and powerful
- Soft start to avoid losing hands
- 135mm slim handle, balance center without tiring hands



|                                |              |
|--------------------------------|--------------|
| Spindle Size (mm)              | M14          |
| Grinding/Slicing Diameter (mm) | 115          |
| Rated Voltage (V)              | 20           |
| Motor Type                     | Brushless DC |
| No-load Speed (rpm)            | 9500         |
| Max. Cutting Depth (mm)        | 28           |
| Bare Metal Net Weight (Kg)     | 1.69         |
| L*W*H Without Battery (mm)     | 296×130×125  |

## **G1-125**

### 125mm Braking Angle Grinder

**Application** Cutting | Metalworking | Equipment Installation | Industrial Construction | Automotive Maintenance

**RFC** **BRUSHLESS MOTOR** 

- High-strength body, ultra-thin and heat-resistant and high-temperature resistant
- Auxiliary handle for stable operation
- Long battery life, high efficiency
- 800W maximum output power, efficient and powerful
- Soft start to avoid losing hands
- 135mm slim handle, balance center without tiring hands



|                                |              |
|--------------------------------|--------------|
| Spindle Size (mm)              | M14          |
| Grinding/Slicing Diameter (mm) | 125          |
| Rated Voltage (V)              | 20           |
| Motor Type                     | Brushless DC |
| No-load Speed (rpm)            | 9500         |
| Max. Cutting Depth (mm)        | 33           |
| Bare Metal Net Weight (Kg)     | 1.70         |
| L*W*H Without Battery (mm)     | 296×138×126  |

## 8406

### 1/4" Die Grinder

**Application** Metalworking | Automotive Repair | Construction Engineering



- Brushless motor, multi-protection controller ensures stable operation
- Dust-resistant construction for extended service life
- Ultra-quiet, low vibration
- 4-speed constant control for efficient operation
- Small body, ergonomic design

|                               |              |
|-------------------------------|--------------|
| Rated voltage (V)             | 20           |
| Speed (RPM)                   | 8000-27000   |
| Motor Type                    | Brushless DC |
| Speed Mode                    | 4            |
| Max. Grinding Wheel Dia. (mm) | 55           |
| Max. Collet Size (mm)         | 6            |
| Net weight (Kg)               | 1.45         |
| L*W*H Without Battery (mm)    | 398×73×90    |

## 8407

### Surface Conditioning Tool

**Application** Metalworking | Woodworking



- Brushless motor, multi-protection controller ensures stable operation
- Dust-resistant construction for extended service life
- Ultra-quiet, low vibration
- 4-speed constant control for efficient operation
- Small body, ergonomic design

|                            |              |
|----------------------------|--------------|
| Rated Voltage (v)          | 20           |
| Speed (RPM)                | 1000-3500    |
| Motor Type                 | Brushless DC |
| Speed Mode                 | 4            |
| Wheel Size (mm)            | 100×115      |
| Net Weight (kg)            | 3.10         |
| L*W*H Without Battery (mm) | 418×170×157  |

**ROTAKE®**



## Polishers

- Constant speed function design with stable speed
- Soft start system ensures smooth polishing process
- Safe operation guaranteed, shaft and switch can be locked with one click

# Constant speed and stability, fine grinding



## **8701** 75mm Polisher

**Application** Auto Cosmetic | Furniture Manufacturing



- Ergonomic design, soft-grip handle for comfortable operation
- Clip design, easy to replace the disc
- 2-speed control

|                                 |              |
|---------------------------------|--------------|
| Wheel Size (mm)                 | 75           |
| Spindle Thread                  | M6           |
| Rated Voltage(V)                | 20           |
| Motor Type                      | Brushless DC |
| No-load Speed - Polishing (RPM) | 0-2800       |
| No-load Speed - Grinding (RPM)  | 0-8000       |
| Net Weight (Kg)                 | 0.88         |
| L*W*H Without Battery (mm)      | 142x68x210   |



## **8703** 150mm Polisher

**Application** Auto Cosmetic | Furniture manufacturing | Stone processing

BRUSHLESS  
MOTOR



- Brushless motor for extended lifespan
- Shaft lock for easy disc replacement
- 6-speed control for versatile polishing

|                                 |              |
|---------------------------------|--------------|
| Wheel Size (mm)                 | 150          |
| Spindle Thread                  | M14          |
| Rated Voltage (V)               | 20           |
| Motor Type                      | Brushless DC |
| No-load Speed - polishing (RPM) | 150-2300     |
| Speed Mode                      | 6            |
| Net Weight (kg)                 | 1.58         |
| L*W*H Without Battery (mm)      | 433x78x123   |

## **8704** 150mm Orbital Polisher

**Application** Auto Cosmetic | Furniture manufacturing | Stone processing

BRUSHLESS  
MOTOR



- Brushless motor for extended durability
- Shaft lock for quick pad changes
- 6-speed control for versatile polishing
- Eccentric motion for superior finish with foam pads

|                            |              |
|----------------------------|--------------|
| Wheel Size (mm)            | 150          |
| Spindle Thread             | M8           |
| Rated Voltage (V)          | 20           |
| Motor Type                 | Brushless DC |
| No-load Speed (RPM)        | 2400-4000    |
| Orbit Diameter (mm)        | 15           |
| Speed Mode                 | 6            |
| Net Weight (kg)            | 2.03         |
| L*W*H Without Battery (mm) | 433x125x137  |

## 8705

### 180mm Variable Speed Polisher

**Application** Auto Cosmetic | Furniture manufacturing | Stone processing

BRUSHLESS  
MOTOR



- Safety lock switch prevents accidental activation
- Ergonomic soft-grip handle with vibration damping
- 5-speed control for versatile polishing
- D-shaped handle for stability
- Dust cover included

|                            |              |
|----------------------------|--------------|
| Wheel Size (mm)            | 180          |
| Spindle Thread             | 14           |
| Rated Voltage (V)          | 20           |
| Motor Type                 | Brushless DC |
| No-load Speed (RPM)        | 800-2800     |
| Speed Mode                 | 5            |
| Net Weight (kg)            | 1.80         |
| L*W*H Without Battery (mm) | 420x100x75   |

## 8702

### 125mm Orbital Sander

**Application** Auto Cosmetic | Furniture manufacturing | Metalworking | Construction

CSC BRUSHLESS MOTOR



- Brushless motor for robust performance
- 5-speed control for versatile usage
- Low vibration, high grinding and high dust extraction efficiency

|   |              |
|---|--------------|
| Wheel Size (mm)                           | 125          |
| Rated Voltage (V)                         | 20           |
| Motor Type                                | Brushless DC |
| No-load Speed (RPM)                       | 6000-12000   |
| Speed Mode                                | 6            |
| Orbit Diameter (mm)                       | 2.5          |
| Net Weight (kg)                           | 0.90         |
| L*W*H Without Battery With Dust Port (mm) | 170x140x120  |

**ROTAKE®**



## Circular Saws

- Quick blade change for complex curves and straight cuts
- Variable speed control for precision cutting
- Lock-off switch for enhanced safety

# Powerful Cutting, Efficient & Stable

## Full soft-grip handle

Reduces fatigue during operation

## Lock-off switch

Prevents accidental activation, enhancing safety

## Dual guard

Contains debris and minimizes splinter hazards

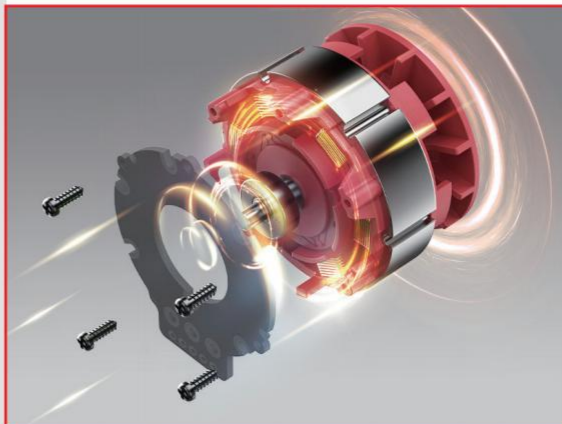
## 0-45° adjustable

Saw angle for versatile cutting angles



## High-performance

20V brushless motor delivers unmatched cutting speed



## Deep-cut Capacity

68mm max depth in single pass, no re-cutting needed



## 8301

### 120mm Circular Saw

**Application** Forestry | Landscaping | Woodworking | Construction | Renovation



- Full soft-grip handle reduces fatigue during operation
- 0-45° adjustable saw angle for high precision and efficiency
- Dual guard contains debris and minimizes splinter hazards
- Lock-off switch prevents accidental activation
- Convenient hook design

|                             |              |
|-----------------------------|--------------|
| Blade Diameter (mm)         | 120          |
| Bore Diameter (mm)          | 9.5/10       |
| Rated Voltage (V)           | 20           |
| Motor Type                  | Brushless DC |
| No-load Speed (RPM)         | 6800         |
| Max. Cutting Capacity (0°)  | 45mm         |
| Max. Cutting Capacity (45°) | 32mm         |
| Net Weight (kg)             | 1.78         |
| L*W*H Without Battery (mm)  | 375x145x155  |



## 8302

### 165mm Circular Saw

**Application** Woodworking | Construction | Renovation



- Full soft-grip handle reduces fatigue during operation
- 0-50° adjustable saw angle for high precision and efficiency
- Dual guard contains debris and minimizes splinter hazards
- Lock-off switch prevents accidental activation

|                             |              |
|-----------------------------|--------------|
| Blade Diameter (mm)         | 165          |
| Bore Diameter (mm)          | 20           |
| Rated Voltage (V)           | 20           |
| Motor Type                  | Brushless DC |
| No-load Speed (RPM)         | 5000         |
| Max. Cutting Capacity (0°)  | 60mm         |
| Max. Cutting Capacity (45°) | 45mm         |
| Net Weight (kg)             | 2.60         |
| L*W*H Without Battery (mm)  | 305x170x195  |



## 8303

### 185mm Circular Saw

**Application** Woodworking | Construction | Renovation



- Full soft-grip handle reduces fatigue during operation
- 0-47° adjustable saw angle for high precision and efficiency
- Dual guard contains debris and minimizes splinter hazards
- Lock-off switch prevents accidental activation
- Convenient hook design

|                                   |              |
|-----------------------------------|--------------|
| Blade Diameter (mm)               | 185/190      |
| Bore Diameter (mm)                | 20           |
| Rated Voltage (V)                 | 20           |
| Motor Type                        | Brushless DC |
| No-load Speed (RPM)               | 5600         |
| 185mm Max. Cutting Capacity (0°)  | 66mm         |
| 185mm Max. Cutting Capacity (45°) | 48mm         |
| 190mm Max. Cutting Capacity (0°)  | 68mm         |
| 190mm Max. Cutting Capacity (45°) | 50mm         |
| Net Weight (kg)                   | 3.10         |
| L*W*H Without Battery (mm)        | 323x195x191  |



## 8311

### Sabre Saw

**Application** Construction | Landscaping | Emergency rescue | Industrial manufacturing



- Tool-free blade change for a variety of cutting needs
- Constant speed control, high-speed cutting
- LED work light for adequate illumination

|  |              |
|--|--------------|
| Stroke Length (mm)                     | 26           |
| Rated Voltage (V)                      | 20           |
| Motor Type                             | Brushless DC |
| No-load Reciprocating Rate (RPM)       | 0-3000       |
| Max. Cutting Capacity- Wood (mm)       | 200          |
| Max. Cutting Capacity- Metal Pipe (mm) | 100          |
| Max. Cutting Capacity-Aluminum (mm)    | 20           |
| Max Steel Cutting Depth (mm)           | 15           |
| Net Weight (kg)                        | 1.68         |
| L*W*H Without Battery (mm)             | 335x65x135   |



# ROTAKE®

Reciprocating Saws

Jigsaws

Multi-Tools



## 8312

### Reciprocating Saw

**Application** Construction | Landscaping | Automotive repair | Home renovation

**BRUSHLESS MOTOR**



- Full soft-grip handle reduces fatigue during operation
- Quick blade change for complex cutting needs
- Safety lock switch prevents accidental activation, more secure storage

|                                     |              |
|-------------------------------------|--------------|
| Stroke Length (mm)                  | 26           |
| Rated Voltage (V)                   | 20           |
| Motor Type                          | Brushless DC |
| No-load Reciprocating Rate (RPM)    | 0-3000       |
| Max. Cutting Capacity- Wood (mm)    | 200          |
| Max. Cutting Capacity- Metal (mm)   | 100          |
| Max. Cutting Capacity-Aluminum (mm) | 20           |
| Max. Cutting Capacity-Steel (mm)    | 15           |
| Net Weight (kg)                     | 1.83         |
| L*W*H Without Battery (mm)          | 390×75×160   |

## 8321

### Jig Saw

**Application** Construction | Landscaping | Home renovation

**CSC BRUSHLESS MOTOR** 



- Quick blade change for complex cutting needs
- Variable speed to accurately match cutting speed
- 4-track adjustment and 3 orbital settings
- LED work light for adequate illumination/ LED illumination
- 0-45° bevel angle adjustment for precise fit"

|                                     |              |
|-------------------------------------|--------------|
| Stroke Length (mm)                  | 25           |
| Rated Voltage (V)                   | 20           |
| Motor Type                          | Brushless DC |
| No-load Reciprocating Rate (RPM)    | 0-3500       |
| Max. Cutting Capacity-Wood (mm)     | 135          |
| Max. Cutting Capacity-Aluminum (mm) | 20           |
| Max. Cutting Capacity-Steel (mm)    | 10           |
| Net Weight (kg)                     | 2.10         |
| L*W*H Without Battery (mm)          | 240×210×80   |

## **8331**

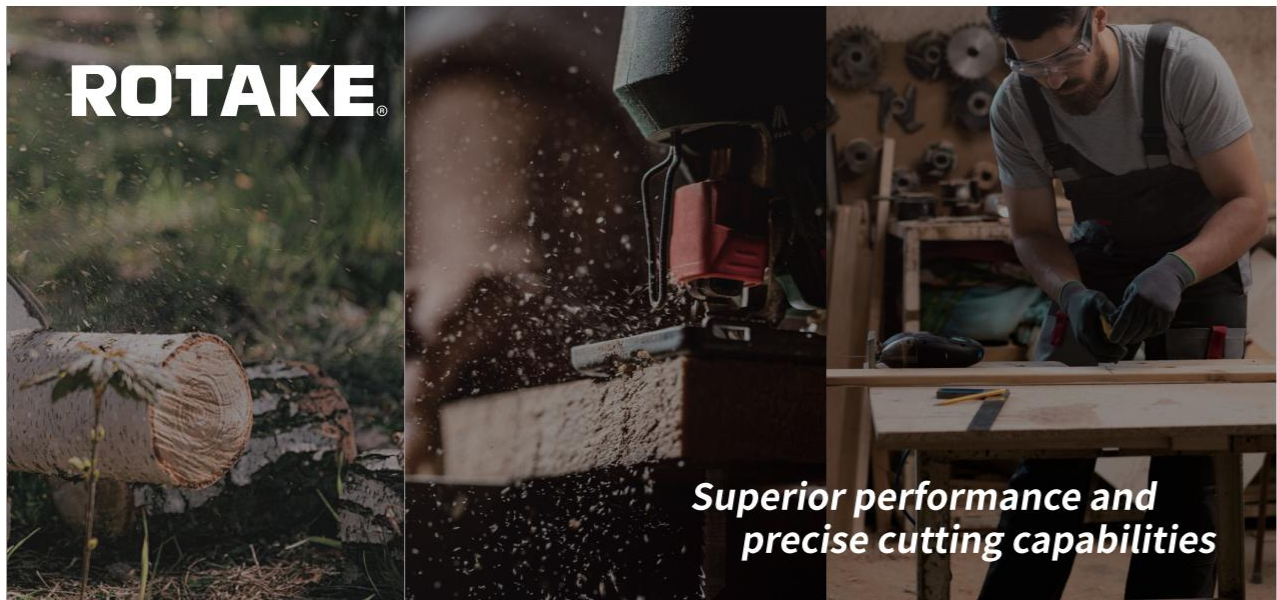
### Multi-Tool

**Application** Construction | Woodworking | Renovation



- Low vibration and noise levels
- 6-speed control for versatile applications
- Large oscillation angle combined with constant speed function significantly enhances work efficiency
- Quick-change system, easy and fast accessory changes, compatible with both closed and open interfaces
- Integrated LED work Light for ample illumination

|                            |              |
|----------------------------|--------------|
| Oscillation Angle (°)      | 4            |
| Rated Voltage (V)          | 20           |
| Motor Type                 | Brushless DC |
| No-Load Speed (RPM)        | 9000-21000   |
| Net Weight (Kg)            | 1.05         |
| L*W*H Without Battery (mm) | 309×112×73   |



*Superior performance and precise cutting capabilities*



**ROTAKE®**

## Other Tools

Heat Guns

Vacuum Cleaners

Caulking Guns

Blowers

Shears

Grease Guns

Air Inflators

Air Compressors

Worklights

Air Fans

## 8514

### Heat Gun

**Application** Automotive Repair | Electronics Repair | Home Renovation | Craft Making, etc.



- Compact Body Design
- Innovative Honeycomb Heating Technology & Electronic Control to achieve optimal operating temperature in just 5 seconds
- Quick-Change Nozzle Design

|                            |            |
|----------------------------|------------|
| Temperature (°C)           | 550        |
| Air Flow (L/min)           | 200L/M     |
| Rated Voltage (V)          | 20         |
| Motor Type                 | Brush DC   |
| Net Weight (Kg)            | 0.60       |
| L*W*H Without Battery (mm) | 205x170x70 |

## 8515

### Vacuum Cleaner

**Application** Interior Car Cleaning | Home Renovation | Household Use | Woodworking, etc.



- Precise locking and easy switching
- Easy assembly and disassembly

|                            |                             |
|----------------------------|-----------------------------|
| Dust Cup Capacity (ml)     | 500                         |
| Vacuum (KPa)               | ≥7.3                        |
| Rated Voltage (V)          | 20                          |
| Motor Type                 | Brush DC                    |
| Filtration                 | Non-woven Fabric Filter Bag |
| Net Weight (Kg)            | 0.92                        |
| L*W*H Without Battery (mm) | 430x135x150                 |

## 8511

### Caulking Gun

**Application** Automotive Repair | Electronics Maintenance | Home Renovation | Industrial Manufacturing



- 360° rotating glue stick holder for omnidirectional operation
- Auto-reverse function to minimize glue drips and waste
- Variable-speed control to adjust glue flow for even, consistent bonding
- Bright LED light illuminates the workspace
- Built-in cleaning needle to easily clear clogs in the glue gun



|                            |             |
|----------------------------|-------------|
| Max. Pushing Force (N)     | 2000        |
| Loading Capacity (ml)      | 300/800     |
| Rated Voltage (V)          | 20          |
| Motor Type                 | Brush DC    |
| Rated Speed (mm/min)       | 50-560      |
| Net Weight (Kg)            | 1.95        |
| L*W*H Without Battery (mm) | 430×110×310 |

## 8513

### Blower

**Application** Household Use, Woodworking, etc.

- Three-speed control switch for precise airflow adjustment
- Variable-speed trigger for flexible control of the blowing power
- Trigger locking function effectively reduces hand fatigue

|                            |             |
|----------------------------|-------------|
| Rated Voltage (V)          | 20          |
| Motor Type                 | Brush DC    |
| Air Speed (m/s)            | ≥70         |
| Rated Speed (RPM)          | 18000       |
| Net Weight (Kg)            | 1.08        |
| L*W*H Without Battery (mm) | 550×140×310 |



## 8517

### Shears

**Application** Gardening & Agriculture | Light Manufacturing, etc.



- Powerful performance with strong cutting force
- One-button start for user-friendly operation
- Safe and reliable, multi-layer protection with anti-misoperation design

|                                       |            |
|---------------------------------------|------------|
| Rated Voltage (V)                     | 20         |
| Cutting Speed (S)                     | 0.3        |
| Shearing Capacity-Fresh branches (mm) | 30         |
| Net Weight (Kg)                       | 1.28       |
| L*W*H Without Battery (mm)            | 280x64x115 |

## 8516

### Grease Gun

**Application** Agricultural & Forestry Machinery | Railway Engineering | Mechanical Maintenance & Lubrication, etc.



- Variable speed control to meet different greasing needs with precision
- High-capacity pump to deliver high-output performance
- Built-In LED Light

|                             |             |
|-----------------------------|-------------|
| Rated Voltage (V)           | 20          |
| Maximum Pressure (psi)      | 10000       |
| Oil Drum Capacity (ml)      | 420         |
| Oil Tank Capacity (oz)      | 14.5 (410g) |
| Oil injection speed (g/min) | MAX280      |
| Net Weight (Kg)             | 3.50        |
| L*W*H Without Battery (mm)  | 390x95x27   |

## 8518

### Air Inflator

**Application** Automotive Tire Repair, Other Inflatable Items

**BRUSHLESS  
MOTOR**

- Lightweight and portable, with convenient operation
- Powerful and efficient, enabling rapid inflation for quick results
- Versatile nozzle compatibility

|                               |             |
|-------------------------------|-------------|
| Rated Voltage (V)             | 20          |
| Max. Pressure (psi)           | 160         |
| Airflow (L/min)               | 360         |
| Air Pump (L/min)              | 9-12        |
| Length of Inflation Hose (mm) | 720         |
| Net Weight (Kg)               | 1.50        |
| L*W*H Without Battery (mm)    | 210*105*230 |



## 8519

### Air Compressor

**Application** Pneumatic Tools | Painting | Automotive Repair & Construction, etc.

**BRUSHLESS  
MOTOR**

- Adjustable pressure to precisely meet diverse pressure output needs
- Powerful performance to deliver strong air pressure, perfect for a wide range of industrial applications

|                            |             |
|----------------------------|-------------|
| Rated Voltage (V)          | 20          |
| Max. Pressure (bar)        | 8/9.3       |
| Max. Pressure (psi)        | 116/135     |
| Max. Power Output (W)      | 550         |
| Capacity (L)               | 6           |
| Air displacement (L/min)   | 53          |
| Net Weight (Kg)            | 10.30       |
| L*W*H Without Battery (mm) | 430x350x370 |



## 8520

### Worklight

**Application** Auto Repair | Construction Sites | Home Renovation, etc.



- High brightness powered by advanced lighting technology
- Adjustable head and body to flexible angles
- Good functions of waterproof & dustproof

|                       |               |
|-----------------------|---------------|
| Rated Voltage (V)     | 20            |
| Power (watts)         | 10/20/30      |
| Effective Lumens (lm) | 800/1700/2200 |
| Tilt Angle (°)        | 0-360         |
| Weight (Kg)           | 1.58          |

## 8521

### Air Fan

**Application** Factory Workshops | Warehouses | Construction Sites, etc.



- Large blades, powerful airflow
- Versatile installations such as wall-mounted, floor-standing, or desktop options to suit any space

|                     |           |
|---------------------|-----------|
| Rated Voltage (V)   | 20        |
| No-load Speed (rpm) | 1600/2500 |
| Blade Diameter (mm) | 240       |
| Weight (Kg)         | 2.35      |

# Icon Index of Cordless Tools



## Brushless Motor

Electronic commutation, carbon brush-free design



## Constant Speed Control

Maintains a steady operating speed for precise output control



## Integrated Die-casting Technology

Three-in-one die casting design: gearbox housing, output shaft sleeve, and washer integrated into one seamless unit



## Soft Start

The starting process is from slow to fast to avoid sudden high-speed start



## Electronic Anti-twist/ Anti-kickback Technology

Gyroscope monitors tool acceleration in real-time, automatically stopping if it exceeds set limits



## Restart Protection

Gradual acceleration from slow to fast to prevent sudden high-speed starts



## Smart Control Mode / Smart Screw Gear

Smart Control: Auto-stop when tightening, speed reduction when loosening. Smart Screw Gear: Auto-stop when tightening under special working conditions.



## Overload Protection

Prevents the tool from starting when inserting the battery while the switch is on



## LED Shadowless Light Illumination System

With two or more LEDs integrated



## AVS Shock Absorption System



## LED Lighting Lamp



## SDS plus Quick Change System



## Stepless switch between variable speed modes



## Electronic Brake



## IPX5 Waterproof



## Forward and Reverse Rotation



## Drilling



## Overcharge Protection



## Screwing



## Overdischarge Protection



## Impact Drilling



## Overcurrent Protection



## Flat Chisel Rotation



## Short Circuit Protection



## Hammering



## Overheating Protection



## Hammer Drilling

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