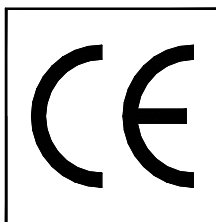


## DECLARATION OF CONFORMITY



**KOLVER S.r.l.**  
**VIA MARCO CORNER, 19/21**  
**36016 THIENE (VI) ITALIA**

Declare that the new tool here described:

Electric screwdriver:

<b>ACC2210</b>	<b>141910</b> <input type="checkbox"/>
<b>ACC2220</b>	<b>141920</b> <input type="checkbox"/>
<b>ACC2222</b>	<b>151222</b> <input type="checkbox"/>
<b>ACC2230</b>	<b>151930</b> <input type="checkbox"/>
<b>ACC2245</b>	<b>151945</b> <input type="checkbox"/>

Is in conformity with the following standards documents:  
89/392/CEE and following amendments and 73/23/CEE and 93/68  
and the normative: EN 50144-1 and EN 60204-1.  
It is also in conformity with RoHS normative.

Name: Giovanni Colasante  
Position: Managing Director

*Giovanni Colasante*  
**KOLVER S.r.l.**



## Operator's Handbook

### IDENTIFICATION DATA OF THE MANUFACTURER

**KOLVER S.r.l.**  
**VIA MARCO CORNER, 19/21**  
**36016 THIENE (VI) ITALIA**

### IDENTIFICATION DATA OF THE PRODUCT

ELECTRIC SCREWDRIVER MODEL:

<b>ACC2210</b>	<b>141910</b> <input type="checkbox"/>
<b>ACC2220</b>	<b>141920</b> <input type="checkbox"/>
<b>ACC2222</b>	<b>151222</b> <input type="checkbox"/>
<b>ACC2230</b>	<b>151930</b> <input type="checkbox"/>
<b>ACC2245</b>	<b>151945</b> <input type="checkbox"/>

### THECNICAL DATA OF THE PRODUCT

TENSION: 230V DC  
POWER: 30W  
SPEED RPM: 950; 2222: 2400; 2245: 450  
TORQUE RANGE Nm: 2210: 0,2-1; 2220: 0,7-2  
2222: 0,9-2; 2230: 1-3; 2245: 1-4,5; 2245: 1-4,5

## GENERAL SAFETY RULES

**WARNING:** when using electric screwdrivers, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury. Read all the instructions below before using the screwdriver and save them.

1. Keep the work area clean and well lit.
2. Do not use the electric screwdrivers in damp or wet locations or in presence of flammable liquid or gases.
3. Avoid body contact with grounded surfaces as pipes, radiators, refrigerators etc.
4. Keep children and visitors away from work area.
5. When not in use screwdrivers should be stored in dry and locked-up place and out of the reach of children.
6. Do not use the screwdrivers for purposes or works not intended.
7. Dress properly. Do not wear loose clothing and jewels. Wear protective hair covering to contain long hair.
8. Never carry the screwdriver by cable or pull it to disconnect it from socket.
9. Use clamps or a vice to hold work.
10. Keep proper footing and balance at all times.
11. Inspect tool cable periodically and, if damaged, have it repaired or replaced by authorized service facility. Always keep handles dry, clean and free from oil and grease.
12. Disconnect tools from power supply before any operation of servicing, when changing accessories and when you do not use them.
13. When screwdriver is used outdoors, only operate with extension cords intended for use outdoors and so marked.
14. Pay attention while working. Do not operate screwdriver when you are tired.
15. Always check the screwdriver is not damaged before using it. Defective switches must be replaced by authorized service center. Never use tools that cannot be turned on or off by the switch.
16. The use of any other accessory other than recommended in this operating instruction may represent a risk of personal injury.
17. Have the screwdriver repaired only by authorized and expert people.  
Failing to do so may represent a serious danger.

**WARNING:** before connecting the control unit and power supply to the socket, please check the voltage you are using is the same indicated on the label of the unit itself.

## 1. APPLICATIONS

Kolver electric screwdrivers are designed to tighten to preset torque values any fasteners up to M5. Tabel 1 will help you to identify the capacity and the torque range of each model. Precision assembly industries in the field of electronics, electric appliances, toys, glasses frame and so on, are the natural users of electric screwdrivers .

Table 1

Model	Capacity	Speed RPM	Torque range [Nm]
ACC2210	M3	950	0,2 - 1,0
ACC2220	M4	950	0,7 - 2,0
ACC2222	M4	2400	0,9 - 2,0
ACC2230	M5	950	1,0 - 3,0
ACC2245	M5	450	1,0 – 4,5

## 2. USE

The screwing system is composed by a screwdriver and a cable with schuko plug. To install it please follow the instructions.

- a. Pull the collect ring of the quick change chuck, insert the desired bit into the ¼” seat and release the ring. The bit is automatically locked into position .
- b. Connect the screwdriver plug to a mains supply socket 230v- 50Hz .
- c. Put the bit head firmly into the fastener head, position the forward / reverse selector upside .  
**PUSH AND LEVER COMBINATION FUNCTION** (switch on the PL position).  
Apply axial pressure through the tool onto the fastener. Then, press the trigger to start tightening the fastener. When the preset torque is reached , the tool stops automatically.  
**PUSH START FUNCTION** (switch on the P position) .  
Make sure to keep the tool bit straight onto the fastener. Then, push to start tightening (same as PL function but no need to press the trigger).

**IMPORTANT:** For each second of operation the motor needs 3 seconds of rest, as indicated on the tool label (1s/3s). Failure to do so may result in motor overheating and eventually damage and will be considered as a misuse. Our warranty will not apply.

## 3. ACCESSORIES

Use only ¼” ISO 1173 bits and power bits.

## 4. ADJUSTING THE CLUTCH

The torque values is adjusted by changing the tension of the clutch spring. The torque can be increased by turning nut #811 clockwise and decreased by turning it anticlockwise.

To check the torque value we suggest the use of KOLVER K1 or K5 torque tester.

## 4. MAINTENANCE

The D.C. motor is equipped with two carbon brushes 8mm long. When their lenght is about 5mm it is time to replace them with new ones as per the following instructions.

- a. Unscrew cover # M-308 and let the carbon brush come out of its seat.
- b. Insert a new carbon brush and screw back cover # M – 308.

The average life of carbon brushes is approx 1 million cycles.

### Note

The sound level generated by Kolver electric screwdrivers is always lower than 70dB(A).

The vibrations transmitted to operator’s hand are lower than 2,5m/s². In particular the exposition to vibrations is lower than 1m/s² for operators who make up to 4200 screwing cycles per day.

## WARRANTY

KOLVER warrants its products for a period of one year from the date of original purchase. Any products which examination proves to be defective in workmanship or material will be repaired or replaced free of charge during the warranty period. For repair or replacement return the product, transportation prepaid, to your nearest KOLVER service center. This warranty does not apply to repair or replacement required as a consequence of misuse, abuse, normal wear and tear. In particular, if the 1:3 motor run/rest ratio is not respected our warranty will not apply.