



# GRESON

*Automatic Single Point Lubricator (Re-fillable)*



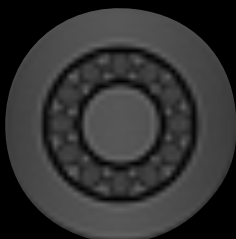
**MADE IN BHARAT**

## GRESON

EC1-250

**AUTOMATIC (RE-FILLABLE) SINGLE POINT LUBRICATOR**

*For wide range of Industrial Applications*



## OVERVIEW :

Most industries in developing nations practice manual lubrication for their machine-bearings, chains & gears. Installing Automatic lubricators can prove beneficial in reducing lubricant consumption, substantial reduction in maintenance costs, increase in productivity and complete eradication manual errors. Hence it's the need of the time that industrial lubrication get automatised.

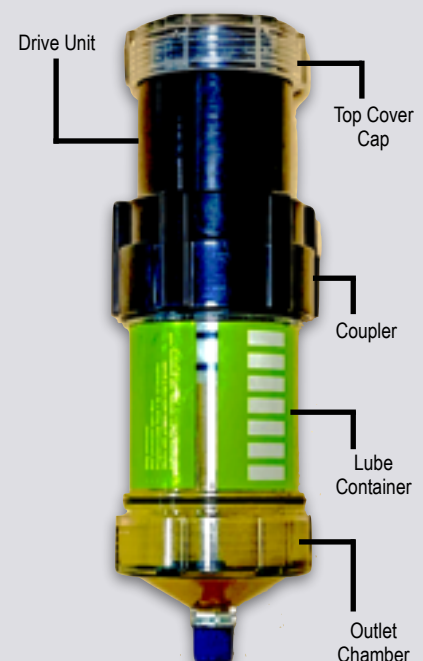
Automatic Single Point Lubricator is a simple programmable lubricant dosage device that caters a single bearing lubrication point. It can be useful for wide range of industrial bearings, chains, open gears etc. The available single point lubricators in the market are mainly consumable & non re-fillable types, wherein every-time after the lubricant is consumed a new lubricator or a new pre-filled replaceable lube cartridges are required. The reoccurring costs of lubricators or pre-filled cartridges proves to be an expensive exercise. And this is where GresOn makes the difference, as it is an easily refillable Automatic Single Point Lubricator with a unique Flip type Lube Container.

## GRESOn EC1-250 Automatic (Refillable) Single Point Lubricator :

**GresOn EC1-250** is an electromechanical Automatic (Refillable) Single Point Lubricator device that can be programmed for 1 to 12 months and directly fixed into the lubrication point (grease nipple socket). Once fixed, it then keeps dispensing small dosages of the oil / grease at regular intervals for the selected number of months. GresOn EC1-250 is equipped with number of LED indications, enabling user to know its various functional status.

EC1-250 can be bifurcated mainly into 3 sections :

- 1) Drive Unit : It comprises of
  - I. A top see through cover cap, which once tightened properly, a seal inside restricts any ingress of the dust or the moisture into the drive unit.
  - II. A micro processor based controller card, has a timer switch for selection of no.of months, and it also has green, blue and red LEDs for various indications.
  - III. A powerful & long lasting geared motor, which is responsible to turn the drive shaft located in lube container. which subsequently slides the piston-plunger.
  - IV. A high quality, over 1 year operational life & leak proof lithium battery pack for power supply.
  - V. A sensor PCB & the sensor disk, which are responsible for sending signals to the main controller card for exact movement of the motor.
- 2) Lube Container :
  - I. Ruggedly built, 250gms capacity.
  - II. It has a piston-plunger fixed in it, which is responsible to push the lubricant into the outlet chamber.
  - III. It also has the drive shaft screwed into the piston-plunger. When the motor turns the shaft, it makes the piston-plunger slide towards the outlet chamber.
- 3) Outlet Chamber :
  - I. Outlet Chamber is a bottom part of the EC1-250 single point lubricator, which is detachable as & when required, mainly when the lubricant of the lube container is consumed, and its time to flip & refill the lube container.
  - II. The Bottom most part of the outlet chamber has a metallic insert with 1/4 BSP threads as a standard, this metallic insert is the part which is screwed into the bearing grease nipple socket.
  - III. If any lubrication point has a socket with different threading, then the suitable adaptor can be used to fix EC1-250 into that lubrication point.



Model : EC1-250

## HOW IT WORKS :

Once the EC1-250 is switched ON and number of months is selected, the controller signals the motor to rotate, motor while rotating turns the drive shaft situated in the lube container, which makes the piston / plunger slide towards the outlet chamber, and subsequently pushes the lubricant with a nominal working pressure of around 2 bar (with Max Pressure upto 7.5 bar). The IR sensors in drive unit checks the motor rotations and accordingly sends back the signal to the controller. This way the device works intelligently to keep supplying the small dosages of the lubricant to the lubrication point.

## LED INDICATIONS :

- **All LEDs** blink together once whenever battery is connected to the PCB to indicate that the battery has been connected, and all LEDs also blink together once, whenever the number is selected on the rotary switch, to indicate the month selection.
- **Blue LED** blinks whenever the device is ON and in waiting mode.
- **Green LED** blinks whenever the device is in priming mode and pushing out the lubricant, also this is the time when motor is ON.
- **Red LEDs** indicate different errors like Refill, Low Battery, Max Pressure, Motor failure & Circuit failure

## SWITCHES :

- **ON / OFF Switch** : A small slide switch is provided as a main on/off switch, this must be used to switch off the device when it is not required to perform for longer duration, like during maintenance shut downs, and also during the battery replacement.
- **Months selection** : A rotary switch is provided with 0-9 readings, please refer to the chart below for settings :



0	Off/ Error removal	5	Six Months
1	One Month	6	Eight Months
2	Two Months	7	Ten Months
3	Three Months	8	Twelve Months
4	Four Months	9	Machine Mode

- **Device Check** : Apart from various LED indications the EC1-250 is also equipped with a manual override button to allow user to check the device operation manually on the spot. By pressing Manual Override Button the device runs the motor once to push the lubricant out.
- **Device Reset** : Every-time when the EC1-250 completes the run, lube container is empty. And after flipping the lube container, refilling and fixing, the device must be restarted for a fresh run schedule as per selected months. The device will restart by pressing Reset Button. Device cannot be reset before completing the complete run schedule.

## GRESON Unique Problem Solving Features :

- An easy re-fill and reusable device with it's **FLIP type lube container**, meaning once the lube container is empty, just open it, flip-it, refill, and reuse it. Use any grease filling equipment or re-fill it by a clean hand.
- EC1-250 has an intelligent controller that knows how much and what way the motor is working with the help of **a sensor & a sensor disk**.
- GresOn EC1-250 is the only SPL that is capable raising **pressure upto 7.5bar** without use of any spring.
- IOT version enables the user to get **online report on latest Device Status**
- Max Pressure / Low Battery / Re-fill / Motor & Circuit Failure **LED indications**.

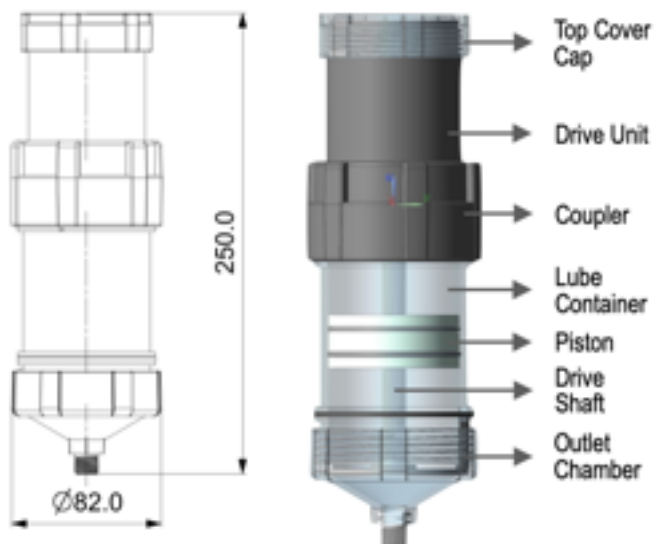
## APPLICATIONS

Electric Motors, Fans, Pumps, Other Industrial Bearings, Linear Bearings, Chains. Open Gears etc.

## OTHER FEATURES

- *Made in Bharat*
- *Motorised*
- *Battery operated*
- *Battery life 5 times or 1 year*
- *250g lube container*
- *LED indications*
- *Max pressure upto 7.5 bar*
- *Max operating temperature 60°C*
- *Suitable for upto NLGI 2 Grease*
- *Settings from 1 to 12 months*
- *IOT version available optionally*
- *Manual Override Switch for on the spot checking*
- *Allows user to use any Grease of their choices*
- *Easily RE-FILLABLE & reusable lube container.*
- *On/Off switch to stop the device when not required*
- *Can be fixed upto 2 meters away from the lube point*





Measurements in mm

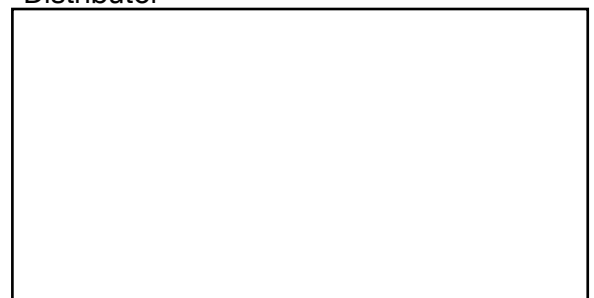


Contact for :

**DF0-900E24**

Drip Feed Oiler with Solenoid  
For Chains & Open Gears

Distributor



VERSIONS TO COME :

- *The IOT version,*
- *Direct electrical supply version,*
- *500g lube container version,*
- *The Multi outlet version.*

**For any further queries contact our marketing & sales partners or directly to us via below contacts :**



Contact us for high quality, reliable products

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