



Guangdong Borton Intelligent Equipment Co., Ltd.

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P1 | D100 Automatic Lubrication Unit

Stable • Efficient • Long-Cycle Industrial Automatic Lubrication Solution

In heavy industries such as metallurgy, cement, power generation and mining, equipment bearings often operate under high load, high temperature, heavy dust and poor maintenance conditions. Traditional

manual lubrication methods can no longer meet modern requirements for equipment stability and service life.

The D100 Automatic Lubrication Unit is specifically designed for such harsh operating conditions. As an independent and intelligent automatic lubrication product, it provides continuous, reliable and controllable lubrication protection for critical equipment through timed, metered and point-specific lubrication.



P2 | Product Overview: What is D100?

An automatic lubricator truly designed for real operating conditions

The D100 Automatic Lubrication Unit is a standalone intelligent lubrication unit that can be installed directly near lubrication points. It is capable of automatically supplying grease to single or multiple lubrication

points.

Compared with manual lubrication, the D100 operates steadily according to preset cycles and is not

affected by personnel experience, working schedules or environmental conditions. It effectively avoids common issues such as missed lubrication, over-lubrication or uneven lubrication.

The D100 is especially suitable for:

- Equipment installed in elevated or hazardous areas
- Equipment requiring long-term continuous operation without frequent shutdowns
- Working conditions with heavy dust, high temperature and poor manual maintenance access

The design goal of the D100 is not simply to replace a single manual greasing operation, but to continuously maintain equipment in an optimal lubrication condition.



P3 | Working Principle: How Stable Lubrication Is Achieved

Automatic, continuous and balanced lubrication logic

The D100 Automatic Lubrication Unit initiates lubrication automatically within preset time intervals through its internal drive and control mechanism.

Once activated, grease is pressurized internally and delivered to bearings or friction surfaces through lubrication lines at a constant pressure of 25–30 bar.

The high and stable output pressure ensures that grease effectively enters lubrication points and forms a continuous, stable lubrication film on friction surfaces.

This lubrication method significantly reduces:

- Direct metal-to-metal contact
- Local dry friction
- Abnormal bearing temperature rise

The entire lubrication process is performed without equipment shutdown and without manual intervention, achieving true on-demand automatic lubrication.



P4 | Core Technologies & Performance Features

Key technologies designed for long-term operation



Large Grease Capacity

The D100 is equipped with a standard 1000 cc grease reservoir, which is approximately 2–6 times larger than comparable products. Under normal operating conditions, it can run continuously for 6 months to 2 years, significantly reducing maintenance frequency.

Low-Power Supply Design

Powered by four 1.5V alkaline batteries, the unit features low power consumption and can operate continuously for 7–8 months without external power supply.

High Output Pressure

Operating at 25–30 bar, the output pressure is significantly higher than conventional automatic lubricators, ensuring stronger grease adhesion and longer-lasting lubrication.

Timed, Metered and Point-Specific Control

Lubrication is controllable and repeatable, eliminating randomness of manual operation and standardizing lubrication management.

P5 | Multi-Point Lubrication & Installation Flexibility

One unit, multiple lubrication points

The D100 supports multi-point lubrication through distributors or dual-port valves. A single unit can lubricate 1–4 points simultaneously.

Under constant pressure, grease delivery to each lubrication point remains uniform, regardless of distance or position, effectively reducing lubrication cost per point.

With its compact structure, the unit can be installed near equipment using brackets or direct mounting. It supports vertical and horizontal installation and is ideal for retrofit and upgrade of existing equipment.



P6 | Application Industries & Typical Equipment

Field-proven wide applicability

Applicable Industries

Metallurgy, cement, power generation, mining, chemical and other heavy industries.

Typical Equipment

Motor bearings, fans, pumps, elevators, belt conveyors, cranes, hoists, crushers, roller presses and more. In elevated, dusty, high-temperature or hard-to-maintain locations, the D100 significantly improves lubrication conditions and enhances operational safety and reliability.



P7 | Overall Value & Service Commitment

Creating long-term measurable value for customers

Through continuous and stable automatic lubrication, the D100 delivers:

• Grease consumption reduced to 1/30–1/60 of manual lubrication

- Practical grease savings of 50%–60% in real applications
- Maintenance intervals extended by 2–3 times
- Significant reduction in maintenance cost and safety risks

Guangdong Burton Intelligent Equipment Co., Ltd provides comprehensive after-sales support for the

D100, including technical consultation, installation guidance and operation follow-up. The product carries a one-year warranty with spare parts support, ensuring long-term stable operation.

D100 Automatic Lubrication Unit

Making lubrication more scientific.

Making operation more reliable.

