

## HTL 429 Pump and Electric FlowMaster<sup>®</sup> Pump

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# HTL 429 Pump

## Introducing a New Hydraulic Tool Lubricator Pump for Hammers

- Delivers precise lubrication every time the hammer cycles
- Increase productivity—no work interruption
- Reduces machine repairs and replacement costs



Deadline-driven operators rarely have the time to halt work to grease the bearing points of hammers or other hydraulically driven devices, which can lead to breakdowns that grind down productivity and inflate repair costs. Lincoln's new HTL 429 Pump, model

85429, makes automatic, precise lubrication a reality. Now your operator can lubricate the hammer without leaving the cab. The pump attaches directly to the hammer, gripper, or crusher and is connected to the hydraulic power supplier of the carrier. Your operator, with the push of a pedal, automatically sends a single shot of grease to lubricate the bearing points. When the operator's foot comes off the pedal, the drop in pressure releases the spring in the pump and recharges it so it is ready to lubricate again the next time the device is activated. All of this makes the HTL 429 the perfect solution to increasing productivity and achieving optimal performance while holding down maintenance and repair costs.

The HTL 429 is easy to use and maintain. It has a visual low level indicator and utilizes standard 14.5-ounce grease cartridge for convenient refilling. The ability to pump both chisel paste or standard grease and the availability of output adjustment plugs allows you to

utilize the HTL 429 pump on several sizes and types of hydraulically driven tools. It can be mounted in either the upright or horizontal position for convenient installation.

### Applications

- Construction OEMs
- Hydraulic hammer retrofits
- Demolition attachments
- Medium to larger breakers/hammers

### Specifications

Pump output/stroke*	0.006 in <sup>3</sup>	0.1 cm <sup>3</sup>
Max. hydraulic inlet pressure	3000 psig	208 bar
Max. inlet back pressure	400 psig	28 bar
Max. output pressure	6500 psig	480 bar
Grease reservoir volume	14.5 oz cartridge	429 ml cartridge
Operating temperature	-10°F to +180°F	-23°C to +80°C
Hydraulic port	SAE #4 O-ring	
Pump outlet	SAE #4 O-ring	
Weight (empty)	16.3 lbs	7.4 kg
Weight (full)	17.3 lbs	7.8 kg

\*Note: Pump output can be increased up to 0.031 in<sup>3</sup> (0.5 cm<sup>3</sup>) by replacing the metering plug

### Pump Output Adjustment

Metering Plug	Output per Stroke
271924*	0.006 in <sup>3</sup> / 0.1 cm <sup>3</sup>
271925	0.012 in <sup>3</sup> / 0.2 cm <sup>3</sup>
271926	0.018 in <sup>3</sup> / 0.3 cm <sup>3</sup>
271967	0.031 in <sup>3</sup> / 0.5 cm <sup>3</sup>

\*Note: Standard plug included with pump

## Features & Benefits

- ◆ Versatile: Attaches directly to hammer making it perfect for rental equipment or hammers used on various machines
- ◆ Heavy Duty: Withstands vibrations of operating hammer
- ◆ Flexible: Metering plugs are available to adjust the output
- ◆ Convenient: Utilizes standard 14.5-oz grease cartridges and attached grease fitting allows for manual filling and fast priming



For customers requiring exchangeable 400g cartridges, the HTL 101 is available. Call your Lincoln representative for more information.

# Electric FlowMaster® Pump

## Your Choice for Manual or Automated Lubrication

- **24VDC—No Air Required**
- **Easy Hookup and Adjustment**
- **Flexible**
- **Powerful Robust Design**



It seems too good to be true, but Lincoln's new Electric FlowMaster Pump can serve most automated lubrication applications. Now you can take advantage of the ease and economy of this efficient, versatile electric pump—no cost for air associated with running the pump and no hydraulic hoses to connect.

The Electric FlowMaster Pump is a workhorse. Because you can adjust the speed of the pump's motor, you can adjust the pump's output to precisely fit any application. Lincoln offers six different models.

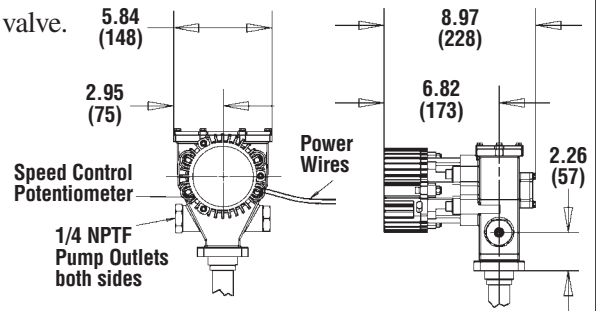
For manual lubrication, use the pump with a hose reel and a dispensing valve.

### Applications

- Automated Lubrication Systems—Mining/Construction Mobile Equipment, Hammers/Breakers
- Manual Lubrication—Via Hose Reel and a Dispensing Valve

### Product Description

This pump changes the rules of the lubrication game with its unique rotary drive and motor. Because of rotary drive, the motor can be placed directly on the pump. As a result, the pump is so compact it fits almost anywhere. It's versatile because its design lets users exactly adjust the pump output to fit their applications.



### Specifications

Max. outlet pressure	5000 psig, 345 bar (85569 2500 psig, 170 bar)
Operating temperature range	-40° to +150°F    -40° to +65°C
Operating voltage	24 VDC
Pump outlets	1/4" NPTF
Motor	1/2 HP
Current draw	85568, 85567, 85471, 85472 and 85473    2-15 amps depending on backpressure 85569    2-5 amps depending on backpressure

### Available Models

Model No.	Pump/Bucket Size	Output	
		Min.	Max.
85569	35 lb (5 gal) pump	0.665 in <sup>3</sup>	6.3 in <sup>3</sup>
85567	60 lb pump	2.8 in <sup>3</sup>	25.2 in <sup>3</sup>
85568	120 lb pump	2.8 in <sup>3</sup>	25.2 in <sup>3</sup>
85471	60 lb bucket	2.8 in <sup>3</sup>	25.2 in <sup>3</sup>
85472	90 lb bucket	2.8 in <sup>3</sup>	25.2 in <sup>3</sup>
85473	120 lb bucket	2.8 in <sup>3</sup>	25.2 in <sup>3</sup>

## Features & Benefits

- ◆ **Advanced Technology:** Brushless DC motor
- ◆ **Variable Speed:** Offers a wide range of outputs
- ◆ **Single Power Source:** Reduced installation time, reduced material cost for installation, no cost of air to run the system after installation
- ◆ **Easy to Install:** Lower installation cost, no need to tap into a hydraulic circuit, no need to drain the hydraulic lines, no air lines to run
- ◆ **Durable, Long-Lasting:** Reduced machinery downtime for lubrication system maintenance, less repair costs
- ◆ **60, 90 & 120 lb. Pump & Bucket Assemblies Available:** Larger capacity reservoirs increase time between maintenance intervals
- ◆ **Temperature & Overload Protection:** Durable and long-lasting product which reduces machinery downtime for lubrication system maintenance, less repair costs
- ◆ **Totally Sealed:** Withstands washdown





# New Pump Intelligence with QuickData Data Logger

Gain greater control over your operation with new QuickData Data Logger, your smart lubrication system logbook. With QuickData Data Logger, you can download, save and analyze data from the pump's controller using a laptop computer or palm device via an infrared interface. If an infrared interface is not available, Lincoln offers an external interface.

QuickData Data Logger enables you to make informed decisions, which can improve efficiency and cut costs. For example, you can evaluate vital system information—settings, pumping and operating times, malfunctions and blockages, indications of low fluid levels or



additional lubrication cycles. Armed with the facts, you can protect warranties and accurately determine system condition and functionality.

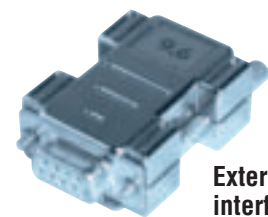
## Available Models

Part No.	Model	Power	Reservoir Capacity			Grease	Low level Control	Printed Circuit Board
			Liter	In <sup>3</sup>	Lbs			
644-40824-1	P233-2XL21K6-24-2A1.5-MDF00	24 VDC	2	122	4	Grease	Yes	Yes
644-40824-2	P233-2XLBO-1K6-24-2A1.5-MDF00		2	122	4			
644-40826-1	P233-4XLBO-1K6-24-2A1.5-MDF00		4	244	8			
644-40827-1	P233-8XLBO-1K6-24-2A1.5-MDF00		8	488	16			

These pumps do not include a pressure relief valve which must be ordered separately. Other technical data and dimensions meet the technical data and dimensions of P203

## Features & Benefits

- ◆ **Ease of Use:** Access stored data via your laptop computer or palm device
- ◆ **Tighten Control:** After analyzing the facts from QuickData, you can make informed decisions
- ◆ **Increase Flexibility:** Use the touch pad to set run times and pause times, which range from four minutes to 59 hours, 59 minutes
- ◆ **Reliable:** Vibration tested
- ◆ **Monitor Pump Conditions:** Reservoir low-level signal and regular refilling
- ◆ **Increased Systems Detection:** Optional external fault connection (dry contact)



External interface

## Accessories

Part Number	Description
236-10127-1	Infrared interface
810-55291-1	Diagnostic software
234-13188-2	Piston detector



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