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Hybrid Integrated lubrication system LHL

LUBE LHLGrease

LUBE Hybrid Lubricant LHL®



A lubricant that has the advantages of both oil and grease

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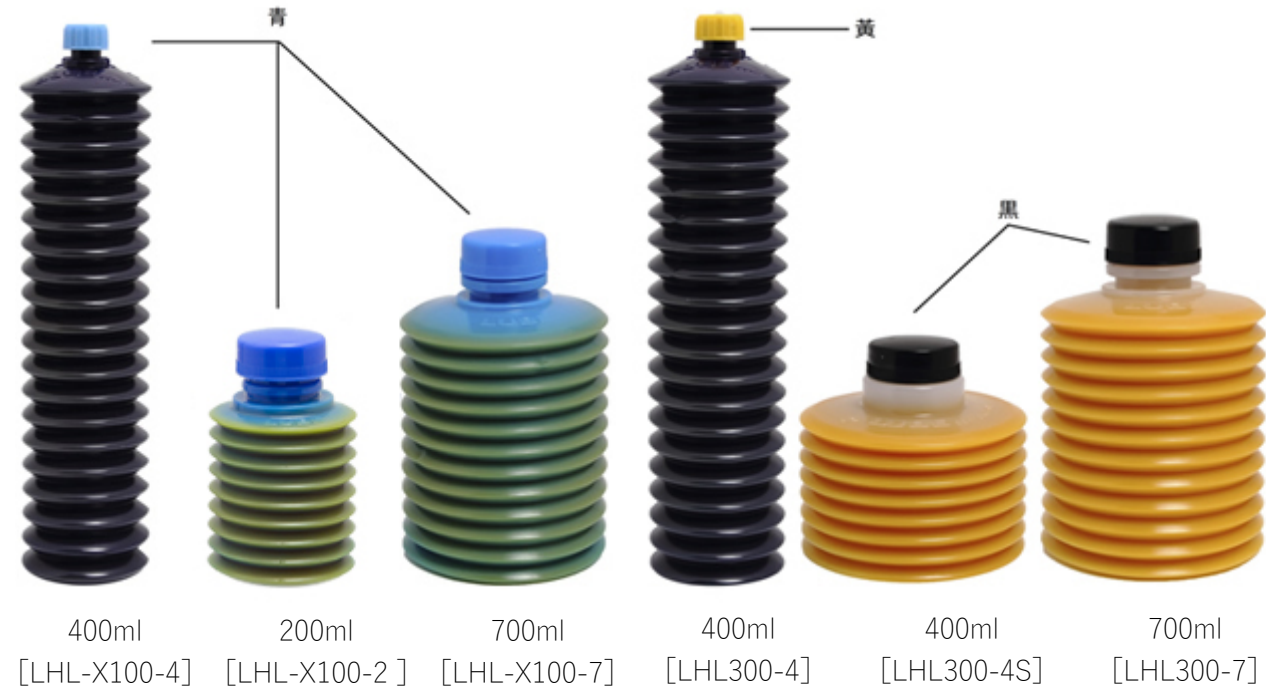
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A lubricant that has the advantages of both oil and grease

- developed to solve the following problems of grease:
- Foul smell of deteriorated and decomposed coolant due to oil lubrication
 - High oil consumption
 - Imperfect lubrication due to grease adherence and insufficient coating of components
 - A large amount of drained grease in lubricated sections

In order to solve the above problems, LHL-300 was developed as a lubricant suitable for the environment and conditions in which machine tool components are used.

■ Features

LHL has the advantages of both oil, such as excellent non-adherence, liquidity and intervention; and grease, such as excellent extreme pressure resistance, wear resistance, water resistance and retention.

＝Oil type integration

◆Operating temperature limit/LHL300 – 20℃～+130℃ ◆Operating temperature limit/LHL- X100 – 20℃～+150℃

Model

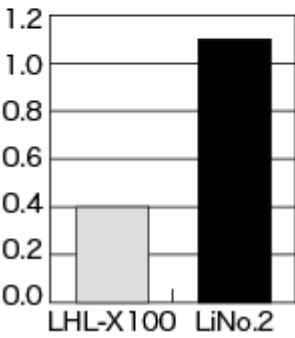
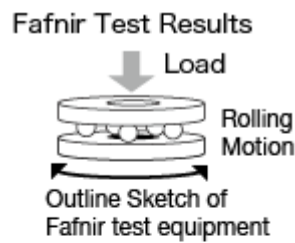
Model	Part Number	Capacity	Color of Grease	Consistency
LHL300-4S	249113	400ml	yellow	0
LHL300-7	249112	700ml		0
LHL-X100-2	249139	200ml	Brown	0
LHL-X100-4	249136	400ml		0
LHL-X100-7	249137	700ml		0

LHL-X100 Performance Test Data

- Excellent load-carrying capacity and wear resistance
The excellent load-carrying capacity and wear resistance prevent seizures and excessive wear.
- Excellent water resistance and corrosion resistance
LHL is versatile to emulsification and softening even when water is introduced. In addition, its excellent corrosion resistance prevents the development of rust and pitting.
Excellent migration property
- Developed as lubricants for centralized lubrication systems, LHL has excellent transport property and supplying LHL in the right amount at the right time guarantees ideal lubrication effects.

Fretting Resistance Test Utilizing the ASTM F4170 Fafnir Test

Testing Method In conformity with ASTM D 4170 Fafnir Test



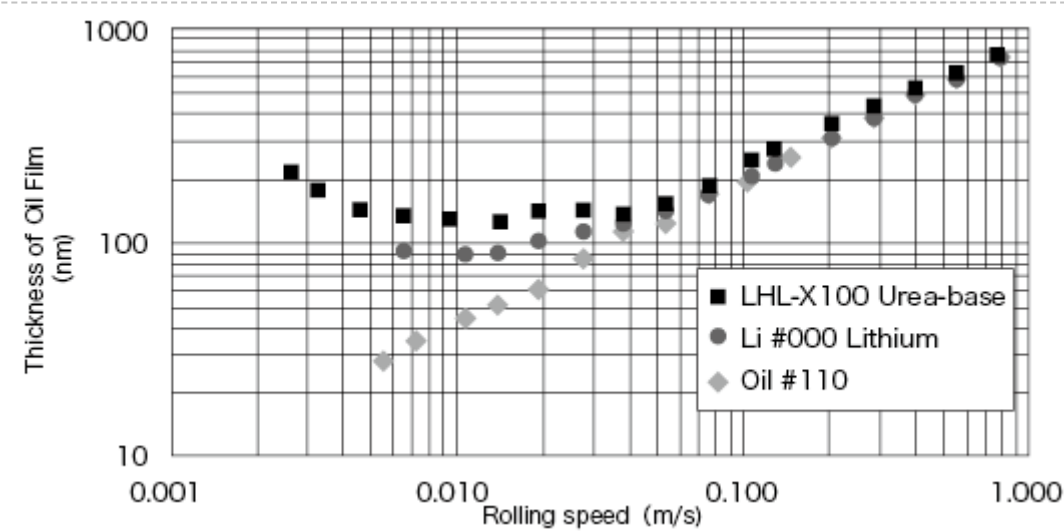
[Testing Conditions]

Shaft :	ANDREWS W 5/8
Weight :	2450N (Ball 9pcs, Surface Pressure : 1.9GPa)
Rolling Angle :	12? (Rolling Width : Approx. 3.0mm)
Rolling Cycle :	3.4Hz (Approx. 200 cycles)
Time Duration :	10h
Temperature :	Room temperature
Warm-up Operation :	No

Amount of lubricant applied :	1.0 + 0.05g per bearing ? 0.2 + 0.01g
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[Evaluation Method] Amount of abrasion : Measuring the decrease in the mass of each race

Thickness of Oil Film (LHL-X 100 • Lithium-based Grease • Oil)



LHL-X 100 Special Urea Grease provides thicker oil films in slow rolling speed range.

Having tested the performance of lubricants by focusing on thickness of oil film provided by each lubricant, we found that the oil films become thinnest when rolling speeds become 0m/s (or all most 0m/s). Both greases provide thicker oil films than oil. LHL-X 100, however, (a special urea grease)provides even thicker oil films than lithium grease. The test results prove that LHL-X 100 prevents oil film deficiencies more effectively and efficiently which eliminates stick slip.

LUBE CORP.
LHL-X100
PART No. : 249137

CAUTION
Never refill this cartridge !
Never remove until empty !
再充填は絶対にしないで下さい
空になるまで取り外さないで下さい
絶対不能再次充填油脂使用
在油脂用空前不要取下油筒

Lot. 2G

<http://www.lube.co.jp/>
MADE IN JAPAN

LUBE special cartridge
Description of the bottom label

Product No

Example: July 2012 production

Year end single-digit

A	B	C	D	E	F	G	H	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12

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