



**MOLYKOTE**<sup>™</sup>  
FROM DOW CORNING<sup>®</sup>

CLICK HERE FOR A PRINTER FRIENDLY VERSION  
**▶ TROUBLE SHOOTING  
GUIDE**

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

CLICK THE LINKS BELOW  
FOR YOUR MACHINE COMPONENT SOLUTIONS

- Rolling Element Bearings
- Shaft/Hub Connections
- Plastic Gear Wheels in Enclosed Gears
- Seals & Packings
- Steel Gear Wheels in Open Gears
- Steel Gear Wheels in Enclosed Gears
- Sliding Contact Bearings Made of Metal
- Sliding Contact Bearings Made of Plastic
- Linear Motion Guides
- Linear Sliding Guides
- Press-fit Joints
- Chains
- Planetary Roller Screws
- Bolts, Studs
- Maintenance, Repairs
- Vacuum Pumps, Air Compressors
- Hydraulic Pumps
- [Contact Us](#)

## smart solutions

No matter how harsh the environment or how extreme the temperature, you're sure to find a Molykote<sup>®</sup> brand lubricant worthy of the challenge. When you specify maintenance products from Dow Corning<sup>®</sup>, you're specifying the results of more than 60 years of breakthroughs and innovations by a world leader in lubricant technology. With dedicated global research and development operations on five continents, Molykote brand lubricants from Dow Corning brings you the best in assembly and maintenance technology from around the world.

For your convenience, our products are readily available through our global network of over 3000 distributor locations. With superior product technology, registration to international quality standards, a reputation for consistently high quality and an unmatched expertise level, it's easy to understand why Molykote from Dow Corning is the smart choice for your lubrication needs.

To select the best lubricant for your application, let your specific performance needs be your guide. Or choose Contact Us directly to discuss your specific application.



# TROUBLE SHOOTING GUIDE

**MOLYKOTE** SOLUTIONS TO YOUR LUBRICATION PROBLEMS  
FROM DOW CORNING

## MACHINE COMPONENTS

### ROLLING ELEMENT BEARINGS

		MOLYKOTE Solution:			
USER PROBLEM:	REQUIREMENT:	EUROPE:	AMERICAS:	JAPAN:	ASIA:
Short life due to high loads	Multi-purpose grease with MoS <sub>2</sub> Extreme pressure and water resistant grease	<a href="#">BR2 Plus Longterm 2 Plus</a>	<a href="#">BR2 Plus G-0102, G-4700</a>	<a href="#">BR2 Plus Contact Us</a>	<a href="#">BR2 Plus Longterm 2 Plus</a>
Ability to operate at extremely low temperatures ( to -70 °C )	Low to moderate loads and speeds	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>
Short life due to high temperatures (up to 150°C)	Medium to high speeds	<a href="#">G-0101</a>	<a href="#">G-4500</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Short life due to high temperatures ( up to 160°C continuous )	Moderate to high loads and low to moderate speeds	<a href="#">FB 180</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">FB 180</a>
Short life due to very high temperatures ( up to 180°C continuous )	Moderate to high loads and high speeds	<a href="#">BG 20</a>	<a href="#">BG 20</a>	<a href="#">Contact Us</a>	<a href="#">BG 20</a>
Short life due to very high temperatures ( up to 200°C continuous )	Low to moderate loads and speeds	<a href="#">44</a>	<a href="#">44</a>	<a href="#">44</a>	<a href="#">44</a>
	Harsh chemical environment	<a href="#">G-6000</a>	<a href="#">FS 1292</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Short life due to extremely high temperatures ( up to 230°C continuous )	Heavy duty and chemically resistant grease	<a href="#">3451</a>	<a href="#">FS 3451</a>	<a href="#">3451</a>	<a href="#">FS 3451</a>
	Low to moderate loads and speeds	<a href="#">7348</a>	<a href="#">41</a>	<a href="#">Contact Us</a>	<a href="#">7348</a>
Short life due to extremely high temperatures ( up to 250°C continuous )	Resistant against solvents and other aggressive chemicals	<a href="#">HP 870</a>	<a href="#">HP-870</a>	<a href="#">HP-870, HP-500</a>	<a href="#">HP-870</a>
Need for operation in very high vacuum environment	Service temperatures from -35 to +250 °C	<a href="#">HP 870</a>	<a href="#">HP-300</a>	<a href="#">HP-300</a>	<a href="#">HP-300</a>
Lubricant failure because of aggressive environmental influence	Service temperatures from -35 to +250 °C	<a href="#">BG 87</a>	<a href="#">HP-870</a>	<a href="#">HP-870, HP-500</a>	<a href="#">HP-870</a>
	Service temperatures from -55 to +250 °C	<a href="#">HP-300</a>	<a href="#">HP-300</a>	<a href="#">HP-300</a>	<a href="#">HP-300</a>
	Service temperatures from -40 to +200 °C	<a href="#">1292</a>	<a href="#">FS 1292</a>	<a href="#">1292</a>	<a href="#">FS 1292</a>
	Service temperatures from -40 to +230 °C	<a href="#">3451</a>	<a href="#">FS 3451</a>	<a href="#">3451</a>	<a href="#">FS 3451</a>
Noise	Service temperatures from -40 to +150 °C	<a href="#">BG 555</a>	<a href="#">BG 555</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
	Medium to high speeds	<a href="#">G-0100</a>	<a href="#">BG 555</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
	Service Temperatures from -40 to +130 °C	<a href="#">G-1001</a>	<a href="#">G-1001</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Short life due to wet environment	High loads	<a href="#">G-0102</a>	<a href="#">G-0102</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Short life due to very high speeds	Service Temperatures from -50 to +130 °C	<a href="#">G-2001</a>	<a href="#">BG 555</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>



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### MACHINE COMPONENTS

#### SHAFT/HUB CONNECTIONS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Stick-slip and damage during assembly and running-in	Dry film lubricant coating	<a href="#">D 321 R</a>	<a href="#">D 321</a>	<a href="#">D 321 R</a>	<a href="#">D 321 R</a>
	Pretreatment with solid lubricants	<a href="#">G-Rapid Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Adhesive pretreatment assembly paste	<a href="#">G-n Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-n paste</a>	<a href="#">G-n Plus</a>
High wear, stiff operation, fretting corrosion, increased tolerances	Multi-purpose grease with MoS2	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>
	Extreme pressure MoS2 grease	<a href="#">G-4700</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
	Fretting corrosion	<a href="#">D Paste</a>	<a href="#">D- Paste</a>	<a href="#">Contact Us</a>	<a href="#">P 40</a>
Short life and lubrication intervals owing to wet environment	White long-life and water resistant grease	<a href="#">LongtermW2</a>	<a href="#">G-4500</a>	<a href="#">LongtermW2</a>	<a href="#">Longterm W2</a>
	Extreme pressure and water resistant grease	<a href="#">Longterm 2 Plus</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
Short life and lubrication intervals owing to wet conditions	High loads and water resistant grease	<a href="#">G-0102</a>	<a href="#">G-0102</a>	<a href="#">Contact Us</a>	<a href="#">Contact us</a>



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## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### PLASTIC GEAR WHEELS IN ENCLOSED GEARS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Running-in damage, stick-slip, scuffing, seizure	White synthetic grease with solid lubricants	<a href="#">PG-30L</a>	<a href="#">G-4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30L</a> , <a href="#">EM-30LG</a>
	General purpose grease for plastic lubrication	<a href="#">X5-6020</a>	<a href="#">G - 4500</a>	<a href="#">X5-6020</a>	<a href="#">X5-6020</a>
High wear and short life owing to high temperatures or heavy loads. Swelling, shrinking, stress cracks, change in strength characteristic due to inadequate lubricant	White silicone grease for wide temperature range	<a href="#">PG 21</a>	<a href="#">1292</a>	<a href="#">Contact Us</a>	<a href="#">PG 21</a>
	White synthetic grease with solid lubricants for extreme pressure	<a href="#">PG-30L</a>	<a href="#">G-4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30 Grease</a>
	White silicone grease with solid lubricants	<a href="#">PG 54</a>	<a href="#">1292</a>	<a href="#">Contact Us</a>	<a href="#">PG 54</a>
	Semi-synthetic grease for enclosed plastic and steel gears	<a href="#">G 68</a>	<a href="#">G-1001</a>	<a href="#">Contact Us</a>	<a href="#">G 68</a>
	General purpose, semi-synthetic grease	<a href="#">PG 75</a>	<a href="#">G-1001</a>	<a href="#">Contact Us</a>	<a href="#">PG 75</a>
	General purpose grease for plastic lubrication	<a href="#">PG-602</a>	<a href="#">G-4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">X5-6020</a>
	Synthetic grease with solid lubricants for extreme pressure	<a href="#">YM-103</a>	<a href="#">G-4500</a>	<a href="#">YM-103</a> , <a href="#">YM-102</a>	<a href="#">YM-103</a>
Synthetic grease free of solid lubricants for enclosed plastic and steel gears	<a href="#">G-2001</a>	<a href="#">G-2001</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	



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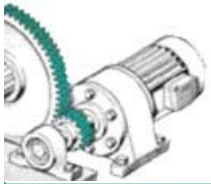
## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### SEALS AND PACKINGS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Damage due to lubrication failure under aggressive environmental influences	Resistant against solvents and other aggressive chemicals	<a href="#">HP 870</a>	<a href="#">HP 870</a>	<a href="#">HP 870</a>	<a href="#">HP 870</a>
	Silicone compound resistant against solvents and gases	<a href="#">111</a>	<a href="#">111</a>	<a href="#">111</a>	<a href="#">111</a>
	Chemically resistant fluoro-silicone grease	<a href="#">3452</a>	<a href="#">FS 3452</a>	<a href="#">3452</a>	<a href="#">3452</a>
Shrinkage, swelling and stress cracking due to lubricant incompatibility	White synthetic grease with solid lubricants compatible with many plastics	<a href="#">PG-30L</a>	<a href="#">G - 4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30L</a> , <a href="#">EM-30LG</a>
	Synthetic grease with noise dampening capacity	<a href="#">EM-50L</a>	<a href="#">G-2001</a>	<a href="#">EM-50L</a>	<a href="#">EM-50L</a>
	Low temperature synthetic grease compatible with many plastics	<a href="#">EM-60L</a>	<a href="#">33</a>	<a href="#">EM-60L</a>	<a href="#">EM-60L</a>
	Synthetic grease compatible with many plastics, protects against stress-cracking formation	<a href="#">HP 870</a>	<a href="#">HP 870</a>	<a href="#">HP 870</a>	<a href="#">HP-870</a>
	General purpose silicone compound	<a href="#">111</a>	<a href="#">111</a>	<a href="#">111</a>	<a href="#">111</a>



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## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### STEEL GEAR WHEELS IN OPEN GEARS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
High wear, pitting or corrosion on gear wheels running at low to medium speeds (up to 2 m/s)	Adhesive pretreatment assembly paste	<a href="#">G-n Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-n</a>	<a href="#">G-n Plus</a>
	Pretreatment with solid lubricants	<a href="#">G-Rapid Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Protection against fretting corrosion	<a href="#">TP 42</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">TP 42</a>
	Adhesive grease against fretting corrosion	<a href="#">G 67</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">G 67</a>
	Protects against wear due to high loads	<a href="#">165 LT</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">165 LT</a>
	Synthetic grease with solid lubricants	<a href="#">1122</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">1122</a>
High wear, pitting or corrosion on gear wheels running at high speeds (up to 6 m/s)	Good water and moisture resistant grease (spray)	<a href="#">S-1014</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
	Adhesive grease in difficult operating conditions	<a href="#">1122</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">1122</a>



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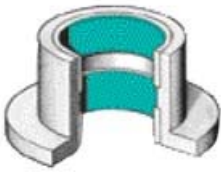
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### MACHINE COMPONENTS

#### STEEL GEAR WHEELS IN ENCLOSED GEARS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Running-in damage	Pretreatment assembly paste	<a href="#">G-Rapid Plus</a>	<a href="#">G - n Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Dry film lubricant coating	<a href="#">D 321 R</a>	<a href="#">321</a>	<a href="#">D 321 R</a>	<a href="#">D 321 R</a>
Wear, pittings	MoS2 additive for gear oils	<a href="#">M 55 Plus</a>	<a href="#">M Gear</a>	<a href="#">M Dispersion</a>	<a href="#">M 55 Plus</a>
	Adhesive, semi-fluid mineral oil grease	<a href="#">Longterm 00</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 00</a>
	Synthetic grease with solid lubricants	<a href="#">1122</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">1122</a>
Short life due to high temperatures, high load in helical steel drive gears	Good oxidation and thermal stability	<a href="#">L-2115-ISO 150</a>	<a href="#">L-1122 - ISO 220</a>	<a href="#">L-1115 - ISO 150</a>	<a href="#">L-1115 - ISO 150</a>
Short life due to high temperatures (≥75 °C) in helical steel drive gears in food processing plant	Good oxidation and thermal stability	<a href="#">L-1115FG - ISO 150</a>	<a href="#">L-1122FG - ISO 220</a>	<a href="#">L-1115FG - ISO 150</a>	<a href="#">L-1115FG - ISO 150</a>
	Food grade				
High maintenance cost due to frequent oil changes in worm gears that are difficult to access	Synthetic food grade gear oil	<a href="#">L-1146 FG - ISO 460</a>	<a href="#">L-1146 FG - ISO 460</a>	<a href="#">L-1146 FG - ISO 460</a>	<a href="#">L-1146 FG - ISO 460</a>
Corrosion protection in worm gears made out of bronze	No sulphur phosphorous EP additives	<a href="#">L-1146FG - ISO 460</a>	<a href="#">L-1168 - ISO 680</a>	<a href="#">L-1146 - ISO 460</a>	<a href="#">L-1146 - ISO 460</a>
Steel gears in area of a food processing plant, prone to frequent washdowns	Food grade	<a href="#">L-1115FG - ISO 150</a>	<a href="#">L-1115FG - ISO 150</a>	<a href="#">L-1115FG - ISO 150</a>	<a href="#">L-1115FG - ISO 150</a>
	High resistance to water emulsification				





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### MACHINE COMPONENTS

#### SLIDING CONTACT BEARINGS MADE OF METAL

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Stick-slip and damage during assembly and running-in	Dry film lubricant coating	<a href="#">D 321 R</a>	<a href="#">321</a>	<a href="#">D 321 R</a>	<a href="#">D 321 R</a>
	Adhesive pretreatment assembly paste	<a href="#">G-n Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-n Paste</a>	<a href="#">G-n Plus</a>
	Pretreatment assembly paste	<a href="#">G-Rapid Plus</a>	<a href="#">77 Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
Scuffing, scoring, high wear. Short life due to high load	Multi-purpose grease with MoS2	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>
	Extreme pressure MoS2 grease	<a href="#">Longterm 2 Plus</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
Short life and lubrication intervals owing to wet environment	White long-life and water resistant grease	<a href="#">Longterm W2</a>	<a href="#">G-4500</a>	<a href="#">LongtermW2</a>	<a href="#">LongtermW2</a>
	Extreme pressure and water resistant grease	<a href="#">Longterm 2 Plus</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
	High loads and water resistant grease	<a href="#">G-0102</a>	<a href="#">G-0102</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>





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## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### SLIDING CONTACT BEARINGS MADE OF PLASTIC

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Running-in damage, stick-slip, scuffing, seizure	White synthetic grease with solid lubricants	<a href="#">PG-30L</a>	<a href="#">Contact Us</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30L Grease</a>
	Extreme pressure synthetic grease paste	<a href="#">E Paste</a>	<a href="#">Contact Us</a>	<a href="#">E Paste</a>	<a href="#">E Paste</a>
	General purpose grease for plastic lubrication	<a href="#">X5-6020</a>	<a href="#">G-4500</a>	<a href="#">X5-6020</a>	<a href="#">X5-6020</a>
High wear, stiff peration, stress cracks, swelling, shrinking, effect on hardness due to inadequate lubricant, short life owing to high temperatures or high loads	Synthetic grease free of solid lubricants for high speeds	<a href="#">G-2001</a>	<a href="#">G-2001</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
	White silicone grease for wide temperature range	<a href="#">PG 21</a>	<a href="#">3451</a>	<a href="#">Contact Us</a>	<a href="#">PG 21</a>
	White synthetic grease with solid lubricants for extreme pressure	<a href="#">PG-30L</a>	<a href="#">G-4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30L , EM-30LG</a>
	White silicone grease with solid lubricants	<a href="#">PG 54</a>	<a href="#">3451</a>	<a href="#">Contact Us</a>	<a href="#">PG 54</a>
	General purpose, semi-synthetic grease	<a href="#">PG 75</a>	<a href="#">G-1001</a>	<a href="#">Contact Us</a>	<a href="#">PG 75</a>
	General purpose grease for plastic lubrication	<a href="#">PG 602</a>	<a href="#">G - 4500</a>	<a href="#">X5-6020</a>	<a href="#">X5-6020</a>
Synthetic grease with solid lubricants for extreme pressure	<a href="#">YM-103</a>	<a href="#">G - 4500</a>	<a href="#">YM-103, YM-102</a>	<a href="#">YM-103</a>	



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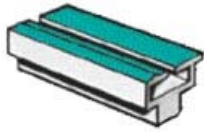
## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### LINEAR MOTION GUIDES

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
High lubricant usage with oil lubrication	Coat with AF Coating then apply thin film of DX paste	<u>3402 C + DX</u>	<u>321 + DX</u>	<u>3402 C + DX</u>	<u>3402 C + DX</u>
High wear due to intermittent operation or by small movement	Dry film lubricant for short travel distances	<u>3402 C</u>	<u>321, 106</u>	<u>3402 C</u>	<u>3402 C</u>
Insufficient accuracy as a result of surface rolling and wear	Apply both lubricants due to increased loads	<u>3402 C + DX</u>	<u>321 + DX</u>	<u>3402 C + DX</u>	<u>3402 C + DX</u>
	Apply both lubricants due to high loads and medium speeds	<u>3402 C + Longterm 2 Plus</u>	<u>321 + BR2 Plus</u>	<u>Contact Us</u>	<u>3402 C + Longterm 2 Plus</u>



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### MACHINE COMPONENTS

#### LINEAR SLIDING GUIDES

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Stick-slip and damage during assembly and running-in	Adhesive pretreatment assembly paste	<a href="#">G-n Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-n</a>	<a href="#">G-n Plus</a>
	Pretreatment assembly paste	<a href="#">G-Rapid Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Multi-purpose grease with MoS2	<a href="#">BR 2 Plus</a>	<a href="#">BR2 Plus</a>	<a href="#">BR 2 Plus</a>	<a href="#">BR 2 Plus</a>
	Extreme pressure MoS2 grease	<a href="#">Longterm 2 Plus</a>	<a href="#">G-4700</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
Scuffing, scoring, high wear, short life due to high load	Multi-purpose, moderate load and food grade ( USDA H1 ) grease	<a href="#">G-4500</a>	<a href="#">G-4500</a>	<a href="#">G-4500</a>	<a href="#">G-4500</a>
	Synthetic grease for high loads on metals	<a href="#">G-4700</a>	<a href="#">G-4700</a>	<a href="#">YM-102</a>	<a href="#">G-4700</a>
	General purpose, semi-synthetic grease	<a href="#">PG 75</a>	<a href="#">G-1001</a>	<a href="#">Contact Us</a>	<a href="#">PG 75</a>
	White synthetic grease with solid lubricants for extreme pressure	<a href="#">PG-30L</a>	<a href="#">G-4500</a>	<a href="#">EM-30L Grease</a>	<a href="#">EM-30L Grease</a>
	Silicone grease for plastics with wide temperature range	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>
Short life and lubrication intervals owing to wet environment	White long-life and water resistant grease	<a href="#">LongtermW2</a>	<a href="#">G-4500</a>	<a href="#">Longterm W2</a>	<a href="#">Longterm W2</a>
	Extreme pressure and water resistant grease	<a href="#">Longterm 2 Plus</a>	<a href="#">G-0102, BR2 Plus</a>	<a href="#">Contact Us</a>	<a href="#">Longterm 2 Plus</a>
Fretting corrosion	White, extreme pressure solid lubricant paste	<a href="#">DX</a>	<a href="#">D Paste</a>	<a href="#">DX</a>	<a href="#">DX</a>
	Adhesive lubricant against fretting corrosion	<a href="#">G 67</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">G 67</a>
Short life and lubrication intervals owing to wet conditions	High loads and water resistant grease	<a href="#">G-0102</a>	<a href="#">G-0102</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>



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## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### ➤ PRESS-FIT JOINTS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Difficult and time consuming assembly because of stick-slip; scuffing, scoring or component damage during press-fitting	Adhesive pretreatment assembly paste	<u>G-n Plus</u>	<u>G-n Paste</u>	<u>G-n</u>	<u>G-n Plus</u>
	White assembly paste	<u>D</u>	<u>D</u>	<u>DX</u>	<u>D</u>
	Pretreatment with solid lubricants	<u>G-Rapid Plus</u>	<u>77 Paste</u>	<u>G-Rapid Spray</u>	<u>G-Rapid Plus</u>



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## TROUBLE SHOOTING GUIDE

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### MACHINE COMPONENTS

#### CHAINS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
High wear and short service life caused by high temperatures or heavy loads	Semi-synthetic chain oil	<a href="#">S-1500</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">S-1500</a>
	High temperature synthetic chain oil	<a href="#">S-1501</a>	<a href="#">L-1428</a>	<a href="#">Contact Us</a>	<a href="#">S-1501</a>
	Service temperatures from -30 to +250°C	<a href="#">S-1502</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">S-1502</a>
	High temperature / low friction synthetic chain oil, up to +250°C	<a href="#">S-1503</a>	<a href="#">C - 40</a>	<a href="#">Contact Us</a>	<a href="#">S-1503</a>
	Adhesive / low friction synthetic chain oil, up to +250°C	<a href="#">S-1504</a>	<a href="#">C - 40</a>	<a href="#">Contact Us</a>	<a href="#">S-1504</a>
	Solvent free high temperature chain oil	<a href="#">CO 220</a>	<a href="#">C - 40</a>	<a href="#">Contact Us</a>	<a href="#">CO 220</a>
High wear and short service life due to insufficient lubrication at high speeds	Adhesive chain lubricant with MoS2	<a href="#">MKL-N</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">MKL-N</a>
High wear and short service life caused by extreme temperatures or heavy loads	Dry lubrication by solid lubricants up to +450°C	<a href="#">M 30</a>	<a href="#">321</a>	<a href="#">M 30</a>	<a href="#">M 30</a>
High wear and corrosion due to heavy loads and wet environments	Black chain lubricant for grease nipples	<a href="#">1122</a>	<a href="#">1122</a>	<a href="#">Contact Us</a>	<a href="#">1122</a>
	Adhesive paste for normal and stainless steel chains	<a href="#">P 40</a>	<a href="#">G-n Paste</a>	<a href="#">Contact Us</a>	<a href="#">P 40</a>
High wear and corrosion due to high water washout	High resistance to water emulsification High film strength	<a href="#">L-0460FG</a>	<a href="#">L-0460FG</a>	<a href="#">L-0460FG</a>	<a href="#">L-0460FG</a>
High wear and short service life caused by very low temperatures	Food grade Pour point < -60°C	<a href="#">L-1468FG</a>	<a href="#">L-1468FG</a>	<a href="#">L-1468FG</a>	<a href="#">L-1468FG</a>



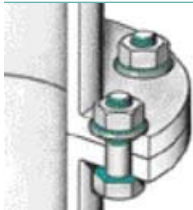
# TROUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

## MACHINE COMPONENTS

### PLANETARY ROLLER SCREWS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Contamination as a result of high lubricant delivery during oil lubrication	Dry film, oil resistant lubricant	<a href="#">7409</a>	<a href="#">321, 106</a>	<a href="#">7409</a>	<a href="#">7409</a>
Increased wear caused by lubricant oxidation or decomposition at extreme temperatures or under aggressive ambient conditions	Silicone grease for high and very low temperatures	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>	<a href="#">33</a>
	Silicone grease with wide temperature range	<a href="#">44</a>	<a href="#">44</a>	<a href="#">44</a>	<a href="#">44</a>
	Chemically resistant fluoro-silicone grease	<a href="#">3451</a>	<a href="#">3451</a>	<a href="#">3451</a>	<a href="#">3451</a>
Wear caused by high centrifugal forces at the bearing guide system as a result of high speeds	General purpose grease	<a href="#">Multilub</a>	<a href="#">BR2 Plus</a>	<a href="#">Contact Us</a>	<a href="#">Multilub</a>
	Synthetic grease for high speeds	<a href="#">BG 20</a>	<a href="#">BG 20</a>	<a href="#">Contact Us</a>	<a href="#">BG 20</a>



## TRUBLE SHOOTING GUIDE

**MOLYKOTE** SOLUTIONS TO YOUR LUBRICATION PROBLEMS  
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### MACHINE COMPONENTS

#### BOLTS, STUDS

		MOLYKOTE Solution:			
USER PROBLEM:	REQUIREMENT:	EUROPE:	AMERICAS:	JAPAN:	ASIA:
Fretting and seizure on bolts made of austenitic stainless steel	White assembly paste	<a href="#">D</a>	<a href="#">D</a>	<a href="#">Contact Us</a>	<a href="#">D</a>
	Black, metal-free assembly paste	<a href="#">P 74</a>	<a href="#">P 37</a>	<a href="#">1000</a>	<a href="#">P 74</a>
	Dry film lubricant coating	<a href="#">D 321 R</a>	<a href="#">321</a>	<a href="#">D 321 R</a>	<a href="#">D 321 R</a>
Fretting and seizure on bolts with galvanized surface	Very low assembly torque	<a href="#">G-Rapid Plus</a>	<a href="#">P 37</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Dry coating preferred	<a href="#">D 321 R</a>	<a href="#">321</a>	<a href="#">D 321 R</a>	<a href="#">D 321 R</a>
Broken bolts and stripped threads owing to scatter of friction coefficient	Consistent assembly torque	<a href="#">1000</a>	<a href="#">1000</a>	<a href="#">1000</a>	<a href="#">1000</a>
	Dry film lubricant coating	<a href="#">7405</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">7405</a>
Fretting and seizure on bolts exposed to low to medium temperatures and corrosive environments	Metal-free lubricating paste	<a href="#">P 40</a>	<a href="#">D Paste</a>	<a href="#">Contact Us</a>	<a href="#">P 40</a>
Broken bolts due to stress cracks on thread surfaces	High temperature threads (nickel alloys)	<a href="#">P 37</a>	<a href="#">P 37</a>	<a href="#">P 37</a>	<a href="#">P 37</a>
Seizure or broken bolts due to unsuitable lubricants	Multi-purpose copper paste	<a href="#">P 1600</a>	<a href="#">1000</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Seizure or broken bolts due to high temperature and corrosive environments	High temperature antiseize paste	<a href="#">HSC Plus</a>	<a href="#">P 37</a>	<a href="#">P 37</a>	<a href="#">HSC Plus</a>





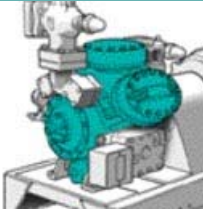
## TRUBLE SHOOTING GUIDE

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### MACHINE COMPONENTS

#### MAINTENANCE, REPAIRS

		MOLYKOTE Solution:			
USER PROBLEM:	REQUIREMENT:	EUROPE:	AMERICAS:	JAPAN:	ASIA:
Difficult dismantling owing to corrosion and rust	' 5 in 1 '	<a href="#">Multigliss</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Multigliss</a>
	Penetrating oil	<a href="#">Supergliss</a>	<a href="#">L-0501</a>	<a href="#">Supergliss</a>	<a href="#">Supergliss</a>
Contaminated components	Metal / Brake cleaner	<a href="#">Metal Cleaner</a>	<a href="#">OS-2</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Stick-slip and damage during assembly and running-in	Adhesive pretreatment assembly paste	<a href="#">G-n Plus</a>	<a href="#">77 Paste</a>	<a href="#">G-n</a>	<a href="#">G-n Plus</a>
	Pretreatment with solid lubricants	<a href="#">G-Rapid Plus</a>	<a href="#">G-n Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
Corroded components due to corrosive environment	Adhesive copper paste	<a href="#">Cu-7439 plus</a>	<a href="#">1000</a>	<a href="#">Contact Us</a>	<a href="#">Cu-7439 plus</a>
Seized or broken bolted connections	White assembly paste	<a href="#">D</a>	<a href="#">D</a>	<a href="#">Contact Us</a>	<a href="#">D</a>
	Pretreatment with solid lubricants	<a href="#">G-Rapid Plus</a>	<a href="#">77 Paste</a>	<a href="#">G-Rapid Spray</a>	<a href="#">G-Rapid Plus</a>
	Consistent assembly torque	<a href="#">1000</a>	<a href="#">1000</a>	<a href="#">1000</a>	<a href="#">1000</a>
	High temperature threads ( nickel alloys )	<a href="#">P 37</a>	<a href="#">P 37</a>	<a href="#">P 37</a>	<a href="#">P 37</a>
Wear, pittings and noise	MoS2 additive for motor and gear oils	<a href="#">A</a>	<a href="#">M Gear</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Corrosion	Dry, transparent corrosion protector	<a href="#">Metal Protector Plus</a>	<a href="#">Metal Protective Coating</a>	<a href="#">Contact Us</a>	<a href="#">Metal Protector Plus</a>
Difficult applications which are notequipped with grease nipples	Low viscosity solid lubricant dispersion	<a href="#">Omnigliss</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Omnigliss</a>
Short life and lubrication intervals owing to wet environment.	Adhesive lubricant dispersion	<a href="#">Polygliss-N</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Welding spots on welding tools and metal surfaces	Transparent, water based fluid	<a href="#">S-1010</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Sticking of molded components	Non silicone release fluid	<a href="#">S-1011</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Dust contamination in electrical components	Electrical contact cleaner	<a href="#">S-1002</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Damage of drills and components	Cutting fluid	<a href="#">S-1013</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Sticking of rubber, metal and plastic parts	Silicone release agent and lubricant	<a href="#">Separator Spray</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>
Repair damaged galvanized surfaces	Corrosion protective dry film coating	<a href="#">L-0500</a>	<a href="#">Contact Us</a>	<a href="#">Contact Us</a>	<a href="#">L-0500</a>



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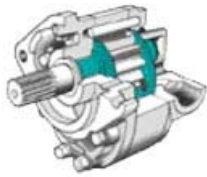
## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### VACUUM PUMPS, AIR COMPRESSORS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
Short lubricant lifetime, faulty pump performance	Good oxidation and thermal stability	<a href="#">L-0610</a>	<a href="#">L-0610</a>	<a href="#">L-1246</a>	<a href="#">L-0610</a>
Short service life due to high exposure to water vapour in food processing environment	Food grade	<a href="#">L-1668FG</a>	<a href="#">L-1668FG</a>	<a href="#">L-1668FG</a>	<a href="#">L-1668FG</a>
	High resistance to water emulsification				
Short service life due to varnish built up	Good oxidation and thermal stability	<a href="#">L-1246</a>	<a href="#">L-1246</a>	<a href="#">L-0246</a>	<a href="#">L-0246</a>
Short service life due to high temperatures	Synthetic base oil (PAO)	<a href="#">L-1246</a>	<a href="#">L-1246</a>	<a href="#">L-1246</a>	<a href="#">L-1246</a>
	Food grade	<a href="#">L-1246FG</a>	<a href="#">L-1246FG</a>	<a href="#">L-1246FG</a>	<a href="#">L-1246FG</a>
	Synthetic base oil (PAG/POE blend)	<a href="#">L-3232</a>	<a href="#">L-3232, L-3246</a>	<a href="#">L-3232</a>	<a href="#">L-3232</a>
Short service life due to very high temperatures and pressures (as in piston compressors)	Synthetic base oil (POE)	<a href="#">L-4646</a>	<a href="#">L-4646</a>	<a href="#">L-4646</a>	<a href="#">L-4646</a>



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## TRUBLE SHOOTING GUIDE

SOLUTIONS TO YOUR LUBRICATION PROBLEMS

### MACHINE COMPONENTS

#### HYDRAULIC PUMPS

USER PROBLEM:	REQUIREMENT:	MOLYKOTE Solution:			
		EUROPE:	AMERICAS:	JAPAN:	ASIA:
VthumbvExtend service life	Good oxidation and thermal stability	<a href="#"><u>L-0346FG</u></a>	<a href="#"><u>L-0346</u></a>	<a href="#"><u>L-0346</u></a>	<a href="#"><u>L-0346</u></a>
Short service life due to water emulsification	High resistance to water emulsification	<a href="#"><u>L-1346FG</u></a>	<a href="#"><u>L-1346FG,</u></a>	<a href="#"><u>L-1346FG</u></a>	<a href="#"><u>L-1346FG</u></a>
	Food grade	<a href="#"><u>L-1346FG</u></a>	<a href="#"><u>L-1346FG,</u></a>	<a href="#"><u>L-1346FG</u></a>	<a href="#"><u>L-1346FG</u></a>
Low pourpoint oil	Wide temperature range (-40 to +250°C)	<a href="#"><u>L-1368FG</u></a>	<a href="#"><u>L-1346FG</u></a>	<a href="#"><u>L-1368FG</u></a>	<a href="#"><u>L-1368FG</u></a>