

Lineer Kızak Bakım Prosedürü

- Lineer kızaklar her 100 km çalışma sonrası yağlanmalıdır.
- Az sıklıkta çalışan sistemler için 100 km tamamlanmasa bile 3 ayda bir yağlama yapılmalıdır.
- Yağlama yapılırken farklı yağların birbirine karışması önlenmelidir.

- Farklı ortam koşullarına göre önerilen gres türleri

Lubricant	Type	Brand name
Grease	Lithium-based grease (JIS No. 2) Urea-based grease (JIS No. 2)	AFA Grease (THK) see 24-7 AFB-LF Grease (THK) see 24-8 AFC Grease (THK) see 24-10 AFE-CA Grease (THK) see 24-12 AFF Grease (THK) see 24-14 AFG Grease (THK) see 24-18 AFJ Grease (THK) see 24-20 Alvania Grease S No.2(Showa Shell Sekiyu) Eponex Grease No.2(Idemitsu) or equivalent

*Recommended greases vary according to the conditions and environment. See [24-6](#) to [24-23](#) for details.

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➤ Özel ortam koşulları için yağ türleri

Table1 Lubricants Used under Special Environments

Service environment	Lubricant characteristics	Brand name
High-speed moving parts	Grease with low torque and low heat generation	AFG Grease (THK) see A24-18 AFA Grease (THK) see A24-7 AFJ Grease (THK) see A24-20 NBU15(NOK Kluba) Multemp (Kyodo Yushi) or equivalent
Vacuum	Fluorine based vacuum grease or oil (vapor pressure varies by brand) <small>Note 1</small>	Fomblin Y-VAC2/3 (Solvay) Demnum L-65/200 (Daikin Industries, Ltd) Barrierta IEL/V (NOK Kluba) Logenest lambda (Nippon Koyu)
Clean room	Grease with very low dust generation	AFE-CA Grease (THK) see A24-12 AFF Grease (THK) see A24-14
Environments subject to microvibrations or microstrokes, which may cause fretting corrosion	Grease that easily forms an oil film and has high fretting resistance	AFC Grease (THK) see A24-10
Environments subject to a spattering coolant such as machine tools	Highly anti-corrosive, refined mineral oil or synthetic oil that forms a strong oil film and is not easily emulsified or washed away by coolant Water-resistant grease <small>Note 2</small>	Super Multi 68 (Idemitsu) Vactra No.2SLC (Exxon Mobil) or equivalent

Note1) When using a vacuum grease, be sure that some brands have starting resistances several times greater than ordinary lithium-based greases.

Note2) In an environment subject to a spattering water-soluble coolant, some brands of intermediate viscosity significantly decrease their lubricity or do not properly form an oil film. Check the compatibility between the lubricant and the coolant.

Note3) Do not mix greases with different physical properties.

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- Periyodik olarak gres tabancasıyla yağlama nipelinden manuel olarak yağlama yapılır. Tabancaya her basıldığında araba kendi boyu kadar ileri-geri hareket ettirilmelidir.

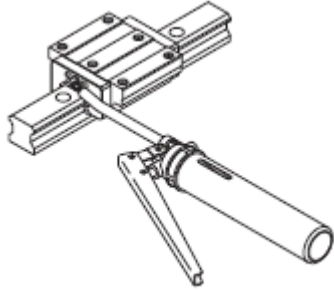


Fig.1 Lubrication Using a Grease Gun

- Birden fazla yağlama noktası bulunan sistemlerde merkezi yağlama ile belirli periyotlarda yağlama yapılır. (CC ayarlı veya zaman ayarlı)

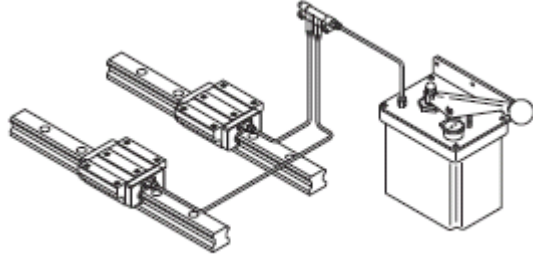


Fig.2 Lubrication through a Centralized Piping System

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- Bu sistemde zaman ayarlı bir şekilde yağlama yapılır ve yağlamanın unutulmasının önüne geçilir. Genel olarak sıvı yağ tercih edilir.

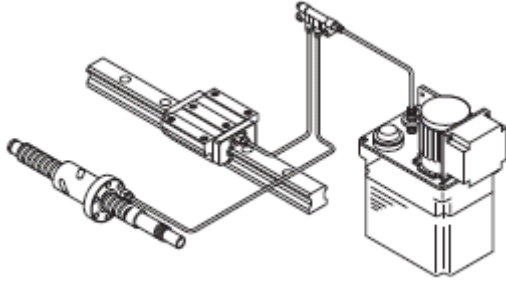


Fig.3 Forced Lubrication Method

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- Özel ortam koşulları için yağ türleri

Name of grease	AFA Grease	AFB-LF Grease	AFC Grease	AFC-CA Grease	AFF Grease	AFG Grease	AFJ Grease
Features	Low-Resistance grease	All-purpose grease	High-speed/micro-vibration grease	Grease for clean environment	Grease for clean environment	Grease for heat of Ball Screw	Grease suited to a wide range of speeds
Base oil	high-grade synthetic oil	refined mineral oil	high-grade synthetic oil	high-grade synthetic oil	high-grade synthetic oil	high-grade synthetic oil	refined mineral oil
Consistency enhancer	Urea-based	Lithium-based	Urea-based	Urea-based	Lithium-based	Urea-based	Urea-based
Industrial machinery	General industrial machinery	—	⊙	—	—	—	—
	High Speed	⊙	—	—	—	⊙	○
	High Load	—	⊙	—	—	—	—
Machine tool	General machine tools	—	⊙	—	—	—	—
	High Speed	○	—	—	—	⊙	○
	High acceleration/deceleration	—	—	—	—	—	⊙
	Micro-vibration	—	—	⊙	—	—	—
Semiconductor manufacturing equipment	General semiconductor fabrication equipment	—	⊙	—	—	—	—
	High Speed	⊙	—	—	—	○	○
	Micro-vibration	—	—	⊙	—	○	—
	High acceleration/deceleration	—	—	—	—	—	⊙
	Clean environments	—	—	—	⊙	⊙	—
Special environments	Low-resistance	⊙	—	—	—	○	○
	Low heat generation	—	—	—	—	⊙	—
	Wide range of speeds	—	—	—	—	—	⊙
	Wide temperature range	—	—	⊙	—	—	—
Color of decorative package	Green	Orange	Mazarine	Lime green	Light blue	Blue	Yellow
Reference page	☞24-7	☞24-8	☞24-10	☞24-12	☞24-14	☞24-18	☞24-20