

永軸企業有限公司

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適用產業：FA機械、TFT-LCD、LED、半導體製程設備零組件、印刷機械、太陽能(電池)設備、自動化倉儲設備、檢測設備AOI(零組件)、各種產業

THK



低價格體積小重量輕低噪音

德國 FESTO EGSK&EGSP 高鋼性
高精度 高C/P值
競爭性價格 交期短



NSK

高速高精度滑台，
滿足清淨要求



符合MSDS、ROHS知名正牌THK NSK原裝無塵室潤滑油、
真空用油FOMBLIN以及其它用油



TOSOK



日本電産トーソク株式会社

TOSOK日本精密螺桿
C3-C7級
OEM供應Dia 3-25,
也可客製化



NSB 日系直線滾珠花鍵



PEEK、UPE、ZrO2、Si3N4、PTFE
陶瓷軸承、混合式陶瓷軸承、塑膠軸承
滾珠Dia0.5mm-65mm



原裝日本知名微型軸承不鏽鋼
內徑1mm-10mm67、68、69超薄型

STAF

首創靜音鏈帶、(非)鏈帶式
滑塊共軌式
· 降低噪音
· 提升潤滑
· 壽命穩定

公司簡介

本公司成立於1977年，最早從事貿易批發專業銷
日系品牌 NTN、NSK，一直秉持誠信、互利態度，
提供相關產品銷售及資訊，也由於產業設備不斷
開發及精進，敝司也陸續引進並更新銷售新產品
零組件。引進及使用廠牌：如 THK、NSK、IKO、
NTN、KOYO、NMB、EZO、TOK、ASAHI、FAG、SKF、
NSB、TOSOK、FESTO、STAR等知名品牌。應用領
域如FA機械、TFT-LCD、LED、半導體製程設備零
組件、CNC專用機軸承、太陽能(電池)設備、自動
化倉儲設備、檢測設備AOI(零組件)。也因應市場
的需求，依使用產業及功能區分，銷售高品質台製
直線運動滑軌LM GUIDE、螺桿Ball Screw、OEM鋁
擠型Table，並加以專業分級提供銷售高品質短期
，依產業應用的不同，我們提供專業諮詢提供適
當的零件供應使用，也由於產業的提升，我們將
會持續不斷的引進新產品，歡迎來電或來信洽詢
與指教

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THK Original Grease

AFG Grease

- Base oil: high-grade synthetic oil
- Consistency enhancer: urea-based



AFG Grease is a high-grade grease for Ball Screws that uses a high-grade synthetic oil as the base oil and a urea-based consistency enhancer. It excels in low heat generation and supports a wide temperature range from low to high temperature.

[Features]

- (1) Low heat generation
Since the viscous resistance is low, the grease generates only a minimal level of heat even during high-speed operation.
- (2) Low viscosity
Since the viscosity is low, a stable rotational torque is achieved.
- (3) Wide temperature range
Maintains a high level of lubricity in a wide temperature range of -45°C to $+160^{\circ}\text{C}$.
- (4) Long service life
AFG Grease is not easily softened and excels in antioxidation stability even after a long-term operation.
- (5) Water resistance
AFG Grease is a highly water resistant grease that is less vulnerable to moisture penetration and little decreases resistance to extreme pressure.

[Representative Physical Properties]

Test item	Representative value	Test method
Worked penetration (25°C, 60W)	285	JIS K 2220 7
Dropping point: °C	261	JIS K 2220 8
Copper plate corrosion (100°C, 24h)	Accepted	JIS K 2220 9
Evaporation amount: mass% (99°C, 22h)	0.2	JIS K 2220 10
Oil separation rate: mass% (100°C, 24h)	0.5	JIS K 2220 11
Stability of oxidation: kPa (99°C, 100h)	80	JIS K 2220 12
Mixing stability (100,000 W)	329	JIS K 2220 15
Grease removal resistance during water rinse: mass% (38°C, 1h)	0.6	JIS K 2220 16
Low temperature torque: N-m (-20°C)	Start	170
	(revolutions)	70
Bearing Corrosion prevention: (52°C, 48h)	Accepted	ASTM D1743-73
Service Temperature Range (°C)	-45 to 160	—

[Test Data on Low Heat Generation Characteristics]**● Test Data on AFG Grease (Comparison of Heat Generation)**

The test data in the figure represent the results of comparing heat generation between AFG Grease and other greases.

<Test conditions>

Item	Description
Shaft diameter/lead	32/10mm
Feeding speed	67 to 500mm/s
Shaft rotation speed	400 to 3000 min ⁻¹
Stroke	400mm
Grease quantity	12cm ³
Temperature measurement point	Nut circumference

