



FINE PRECISION IND Ltd.,

<http://fineind.koreasme.com/>

Business

- Respond to any needs that you can design, analysis, manufacture, total engineering solution provider.
- Leading technology, high-precision machining, low price, time delivery
- Customers are impressed with the slogan of our company.
- Aircraft parts production and development in government financial support, has been developed under the control and supervision of DTaQ (Defense Agency for Technology and Quality) KAI, and production is still under their supervision.

Major customers

- KAI (Korea Aerospace Industries Ltd.,) Tear 1 KUH-1 (Korea Utility Helicopter)
- Air Force Logistic Command F-5 / F-16 / AN-235

Quality certificate & other certificate

- AS 9100 Rev D & ISO 9001:2015
- Venture Company certificate
- Management - Biz Certificate
- Certificate of Defense industry
- Innovation-Biz Certificate
- DQ (Defense Quality) Mark

Producing aircraft parts

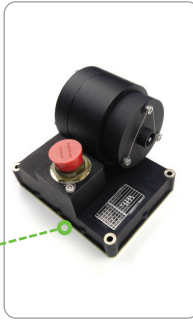
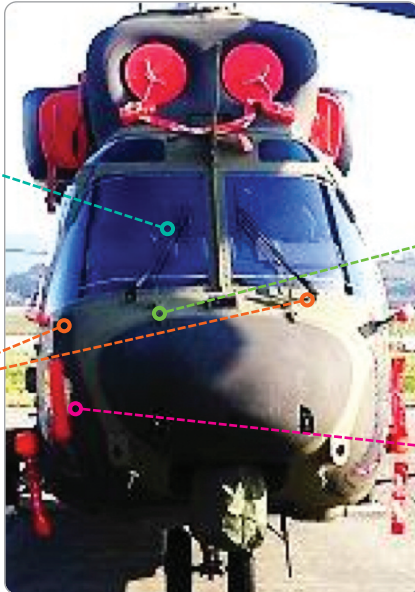
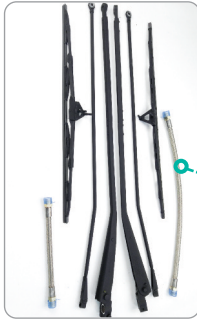


※ MIL-STD-810F/461E, Performance, Durability test

#1260 Nakdong-daero Sasang-Gu, Busan city, KOREA (South)

T. +82-51-301-1213 F. +82-51-301-1215 E. fineind@korea.com

Wiper / Washer System for Aircraft



System Description

Application: KUH-1/ MUH-1, KAI all Helicopter

Product composition: Motor (BLDC), Converter, Arm, Link, Blade, Flexible driver(L/R), Reservoir tank, Wash pump,

Specifications:

- Fast/Slow : 160/120 Strokes/min
- Auto Parking / Built-in Sensor (temperature, overheat prevention , over current prevention)
- High accuracy +/- 1 degree, No lubrication for 30 years (Converter)
- three layers for windshield adhesion (Blade)
- Weight: 6.91 Kg / 1.54 Kg (Wiper / Washer) system.
- 28 VDC 11 Amp
- ※ MIL-STD-810F/461E, Performance, Durability test

All aircraft custom design

(According to customer requirements)

Fitting Tie Down: Cargo Ring



Cabin floor cargo fixing

Application: KUH-1/ MUH-1, KAI all Helicopter

Wight: 0.476 Kg

Size: 133 x 107 x H 26 mm

Material: SNCM439

Specification:

- CARGO RING**
- Design load : 5000 lb(2268 kgf)
 - Proof load : 5000 lb (2268 Kgf)
 - Ultimate load : 7500 lb (3401 Kgf)
- STUD**
- Vertical Load : 5475 lb (2483 Kgf)
 - Horizontal Load : 2300 lb (1043 Kgf)
 - Impact Load : 5950 lb (2699 Kgf)
- ※ MIL-STD-810F Performance

ECS Auxiliary heater for cabin



For cabin of patient transport helicopter

Application: KUH-1ME

KAI Helicopter & Civil

Material : AL6061(aluminum)
/ PEEK(plastic)

Specification :

- Power : 115VAC (Heater)
28VDC(Control)
- Heater capacity : 1400 W
- ※ MIL-STD-810F/461E, Performance, Durability test

Pneumatic Muffler ECS



Silencer ECS

Application: KUH-1/ MUH-1,
KAI all Helicopter

Wight: 0.350 Kg

Size: 151 x 80 x H 124 mm

Material: CRES 321 (Stainless)

Specification :

- Noise reduction ability:
110 db → 90 db
- Patent number: 1020110116511
- ※ MIL-STD-810F, Performance,
- ※ Durability test



Toilet drainage FD (Flush Discharge) Valve

For vacuum type sewage discharge valve(Flap)

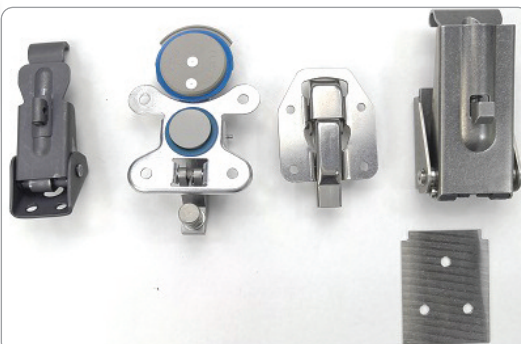
Application: Ship(warship), Railway train, Airplane

Material : PE, PP(Plastic),Rubber

Specification :

- Vacuum pump is vacuumed at 0.3~0.6 bar
- Tow float valves (water / discharge)
- Water consumption: 1.2 liter
- ※ MIL-S-901, MIL-STD-167,
- Performance, Durability test

Latch Toggle / Hook / Push Bottom



Outlet Louver, ECS vent air





Door for F-16 (Fighting Falcon)



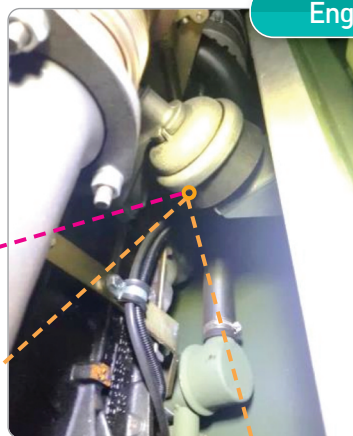
Door for CN-235 (Cargo)



Composite Materials



Engine shock absorber (BV-206)



For Engine Shock absorber Unit
Support Vehicle (SUSV)

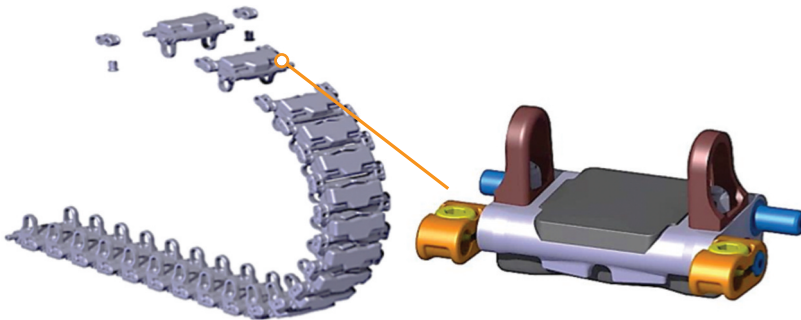
Application: K532/534 (KOREA ARMY)

Material : Aluminum/Rubber

※ MIL-STD-810F, Performance,
Durability test

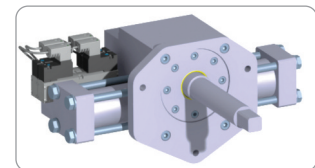
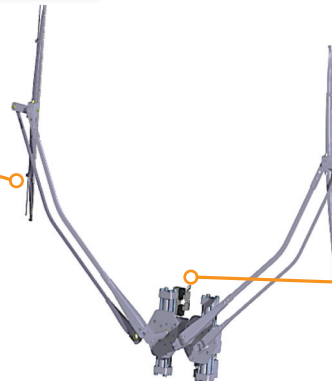


BMP-2 (Russia IFV) Rubber add Track shoe

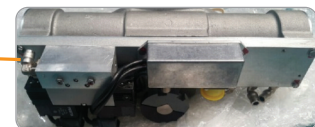


- Prevention of road breakage.
- Reduction of noise and vibration.
- Increase the life of track shoes.
- Convenient maintenance with replacement of rubber pad.

High speed rail way Wiper system

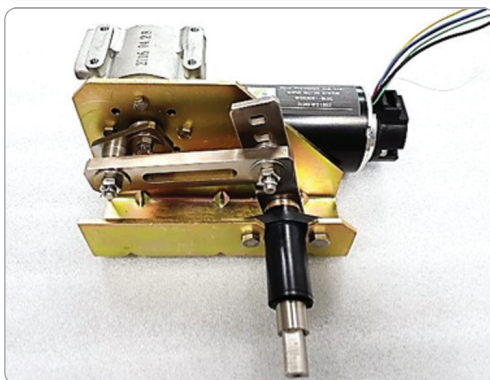


3D Modeling



Actuator by Air

Wiper system motor(BLDC) for railway



Wiper system for railway

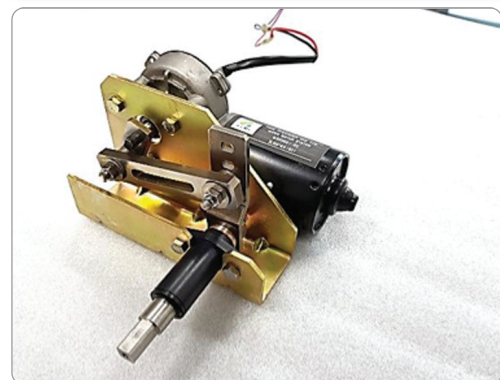
Application: Railway / subway / Wiper system

Material : AL2024(aluminum) / Steel

Specification :

- Power : 24VAC / BLDC Motor
- Operating angle: Adjustable
- Built-in temperature, over load over current sensor

Wiper system motor(DC) for railway



Wiper system for railway

Application: Railway / subway / Wiper system

Material : AL2024(aluminum) / Steel

Specification :

- Power : 24VAC / DC Motor
- Operating angle: Adjustable