STOLZ Co., Ltd.

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SFZ
FEX
SERIES

HIGH QUAILITY PRODUCT

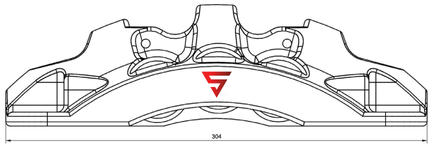
An ideal creation that is based on technology and design creates a new value.

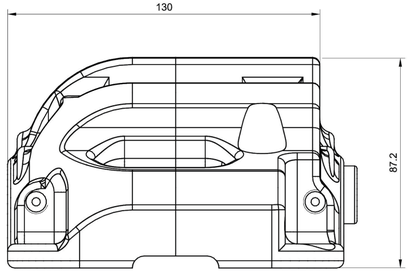
LUXURY PRODUCT

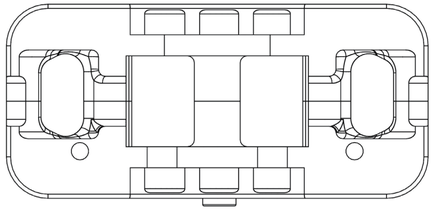
When you choose the Stolz brake SFZ Series, which aims for nothing but the best, you will receive it in an exclusive case.

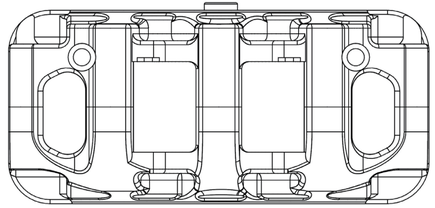
TECHNICAL SKILLS

The caliper body is made of aluminum alloys, and it is optimally designed to keep a balance of force based on maximum stiffness.
Forged aluminum alloys go through an ultraprecision machining and forming through the Machining Center Tooling System (MCT).

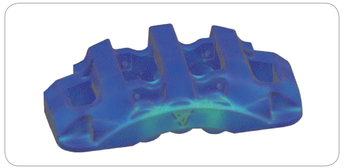




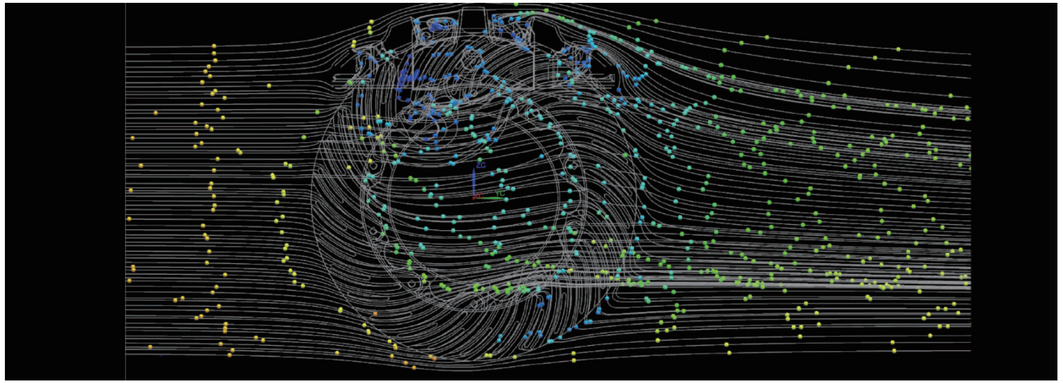




The STOLZ caliper is
designed based on structural analysis and thermal flow analysis.



The Stolz brake is designed for the maximum extreme conditions of the caliper, and is optimized to distribute and transmit forces based on research data that was accumulated for many years through structural analysis depending on the caliper's specifications. It is also made lightweight by reducing or minimizing parts that do not receive forces.
It prevents thermal storage in the brake system, and maximizes safety and heat dissipation through thermal and flow analysis that considers all types of heat including heat that is released from a disc, heat that is transmitted from the pad to the caliper, and heat that is transmitted from the caliper to the brake fluid.



SFZ-C
SFZ SERIES

ABOUT

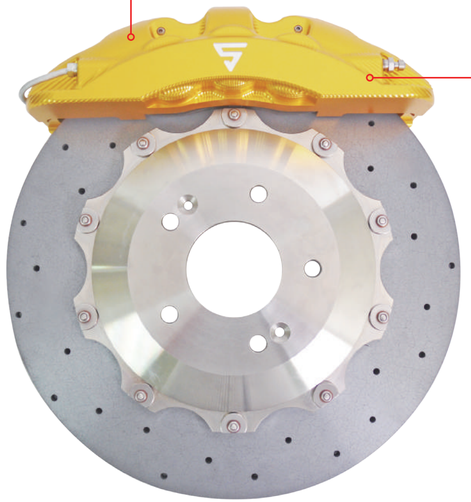
The SFZ model aims for the highest performance, and symbolizes first class with its hardware performance and sporty design. Its superior performance and safety have been proven by the excellent passing scores that it has achieved in various tests of qualified offices.

DIFFERENTIATION

Design: It is the only system that satisfies both design and performance by phasing the trendsetting design and brake control. The system offers optimum balance.

Brake system: It is 100% compatible with all electronic devices including genuine ABS (OEM) and TCS, and others. Based on research data, it is manufactured to achieve the best vehicle performance in consideration of the capacity of a genuine master cylinder.

Product differentiation: It provides a complete braking control before the antilock brake system (ABS) is activated. It also provides a braking force that depends on the depth of the pedal and delays reaching the critical point.



CALIPER

It is scientifically and delicately machined to lower frictional heat conduction, and uses forged aluminum alloy pistons for the maximum pedal effort. The machining process of the MCT that uses a forged billet, Stolz's unique identity, and a stepped air radiation fin that considers heat dissipation are used to increase the cooling efficiency. The triple groove dust seal is used to prevent the entry of foreign substances.

A stepped air radiation fin that considers heat dissipation

BRACKET

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. It is also designed to withstand about 1.5 times of fatigue failure and the maximum stiffness.

The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of a car's body structure. SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

SYSTEM CONFIGURATION

① Caliper (Select between 4-piston caliper and 6-piston caliper.)
② Carbon ceramic disc
(Select a 4-piston caliper that is 350 mm / 6-piston caliper that is 350 mm or 380 mm.)
③ Bracket
④ High-performance pad

※ Select a product based on the weight of a vehicle, the driver's orientation, and other factors.

PISTONE : 6
MATARIAL : ALUMINUM
CALIPER COLOR
Gold, original silver
Gunmetal, black

SFZ-C
SFZ SERIES

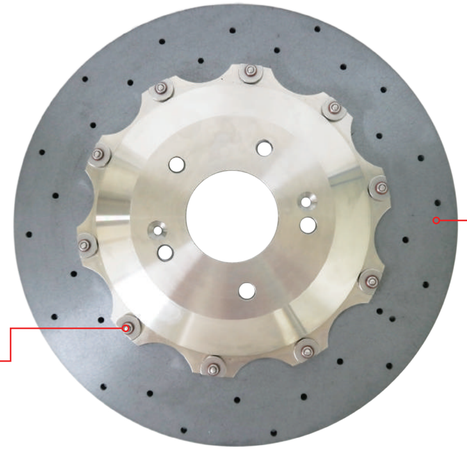
CARBON CERAMIC DISC

ABOUT

It is an innovative disc rotor that specializes in a plate rib (a structure between the front and the back of the disc) to satisfy durability, stiffness, and heat dissipation.

The disc rotor is designed as a two-piece type in consideration of the rotation of the disc rotor (disc plate and bell housing) that is to be controlled with the force applied to the caliper during braking. The aerodynamic system (curved lines are selected instead of straight lines) is applied during the design of the disc rotor rib, and the inner disc pin is also designed for a smooth fluid flow.

Stainless steel pins and oval pins are used to tighten the bell housing and the disc plate. These pins not only balance the stress that is applied to the disc and the bell housing with different materials but also prevent the transfer of frictional heat to the bell housing to reduce deformation and increase durability.



DIFFERENTIATION

The ceramic carbon disc is manufactured by mixing carbon fiber with a specially treated silicon and ceramic at a high temperature and a high-degree vacuum state. It is lighter than cast iron, and has less thermal deformation and a low friction coefficient because of its high stiffness and thermal resistance. It has an excellent performance to maintain a braking force and is mainly mounted on racing cars or supercars.

The drilled disc rotor with an excellent heat dissipation lowers frictional heat, which is delivered to the pad and the caliper, and maintains the best performance (proportional to the number of holes).

SFZ-6
SFZ SERIES

ABOUT

The SFZ Series of the luxury premium line with an excellent performance is designed to be lightweight and to be equipped with optimum durability using forged aluminum alloys. This model has an elegant and slim design that is created by high-tech 3-D designs and precision processing, and it drastically brakes from the vehicle's space limit.

The brake system is applicable to the front, and a 6-piston caliper is applied for a high braking performance. Experience Stolz's outstanding technology through an excellent braking performance with an elegant design.

DIFFERENTIATION

Design: It is the only system that satisfies both design and performance by phasing the trendsetting design and brake control. The system provides optimum balance.

Brake system: It is 100% compatible with all electronic devices including genuine ABS (OEM) and TCS, and others. Based on research data, it is manufactured to achieve the best vehicle performance in consideration of the capacity of a genuine master cylinder.

Product differentiation: It provides a complete braking control before the antilock brake system (ABS) is activated. It also provides a braking force that depends on the depth of the pedal and delays reaching the critical point.

SYSTEM CONFIGURATION

① Caliper (6-piston caliper)
② Ultralight disc (Select between 350 mm and 380 mm.)
③ Bracket
④ High-performance pad

※ Select a product based on the weight of a vehicle, the driver's orientation, and other factors

CALIPER

It is scientifically and delicately machined to lower frictional heat conduction, and uses forged aluminum alloy pistons for the maximum pedal effort. The machining process of the MCT that uses a forged billet, Stolz's unique identity, and a stepped air radiation fin that considers heat dissipation are used to increase the cooling efficiency.

The triple groove dust seal is used to prevent the entry of foreign substances.

A stepped air radiation fin that considers heat dissipation

BRACKET

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. It is also designed to withstand about 1.5 times of fatigue failure and the maximum stiffness.

The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of the car's body structure.

SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

PISTONE : 6
MATARIAL : ALUMINUM
CALIPER COLOR
Gold, original silver
Gunmetal, black

SFZ-4
SFZ SERIES

ABOUT

The SFZ Series of the luxury premium line with an excellent performance is designed to be lightweight and to be equipped with optimum durability using forged aluminum alloys. This model has an elegant and slim design that is created by high-tech 3-D designs and precision processing, and it drastically brakes from the vehicle's space limit.

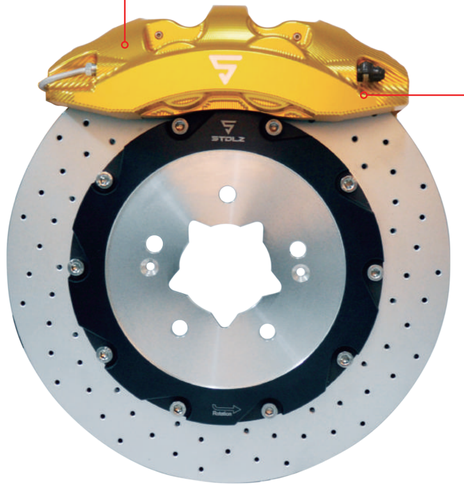
The brake system is applicable to the front and the rear, and a 4-piston caliper is applied for a high-braking performance. Experience Stolz's outstanding technology through an excellent braking performance with an elegant design.

DIFFERENTIATION

Design: It is the only system that satisfies both design and performance by phasing the trendsetting design and brake control. The system provides optimum balance.

Brake system: It is 100% compatible with all electronic devices including genuine ABS (OEM) and TCS, and others. Based on research data, it is manufactured to achieve the best vehicle performance in consideration of the capacity of a genuine master cylinder.

Product differentiation: It provides a complete braking control before the antilock brake system (ABS) is activated. It provides a braking force that depends on the depth of the pedal and delays reaching the critical point.



SYSTEM CONFIGURATION

① Caliper (4-piston caliper)
② Ultralight disc (350 mm)
③ Bracket
④ High-performance pad

※ Select a product based on the weight of a vehicle, the driver's orientation, and other factors.

CALIPER

It is scientifically and delicately machined to lower frictional heat conduction, and uses forged aluminum alloy pistons for the maximum pedal effort. The machining process of the MCT that uses a forged billet, Stolz's unique identity, and a stepped air radiation fin that considers heat dissipation are used to increase the cooling efficiency. The triple groove dust seal is used to prevent the entry of foreign substances.

A stepped air radiation fin that considers heat dissipation

BRACKET

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. It is also designed to withstand about 1.5 times of fatigue failure and the maximum stiffness.

The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of the car's body structure.

SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

PISTONE : 4
MATARIAL : ALUMINUM
CALIPER COLOR
Gold, original silver
Gunmetal, black

FEX-6 : FRONT(6P)
FEX SERIES

ABOUT

The braking performance, which is hidden in an elegant design, is competent enough for general driving and sports driving, and is designed based on thermal and structural analysis. Products are released after they have gone through the first internal test (i.e., performance test and vehicle test) and the second test by the qualified office, and after they have achieved an excellent safety performance.

Completed the Korea Automobile Tuning & Multipurpose Organization's certification for automobile parts tuning

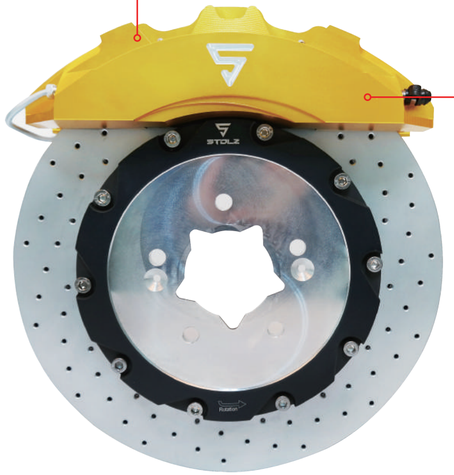
No. D121027HL

DIFFERENTIATION

Design: It is the only system that satisfies both design and performance by phasing the trendsetting design and brake control. The system provides optimum balance.

Brake system: It is 100% compatible with all electronic devices including genuine ABS (OEM) and TCS, and others. Based on research data, it is manufactured to achieve the best vehicle performance in consideration of the capacity of a genuine master cylinder.

Product differentiation: It provides a complete braking control before the antilock brake system (ABS) is activated. It provides a braking force that depends on the depth of the pedal and delays reaching the critical point.



SYSTEM CONFIGURATION

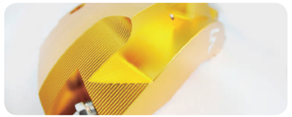
① Caliper (6-piston caliper)
② Ultralight disc (Select between 350 mm and 380 mm.)
③ Bracket
④ High-performance pad

※ Select a product based on the weight of a vehicle, the driver's orientation, and other factors.

CALIPER

It goes through the ultraprecision machining process of the MCT using forged aluminum alloys. The pistons inside the caliper and cylinders are also manufactured using forged aluminum alloys, and have excellent durability. The caliper lowers the thermal conductivity of the pad to maintain the best performance.

The first seal of the double sealing prevents foreign substances from entering, while the second seal maintains a stable hydraulic pressure. It is a self-manufactured seal and gains an excellent thermal resistance by improving the disadvantages of general seals.



BRACKET

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. It is also designed to withstand about 1.5 times of fatigue failure and the maximum stiffness.

The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of the car's body structure. SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

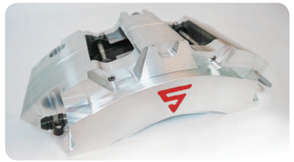
Installation specifications: For full-size and SUV vehicles

PISTONE : 6
MATARIAL : ALUMINUM
CALIPER COLOR
Gold, original silver
Gunmetal, black

FEX-4 : FRONT(4P)/REAR(4P)
FEX SERIES

ABOUT

The braking performance, which is hidden in an elegant design, is competent enough for general driving and sports driving, and is designed based on a thermal and structural analysis. Products are released after they have gone through the first internal test (i.e., performance test and vehicle test) and the second test by the qualified office, and after they have achieved an excellent safety performance.



Completed the Korea Automobile Tuning & Multipurpose Organization's certification for automobile parts tuning

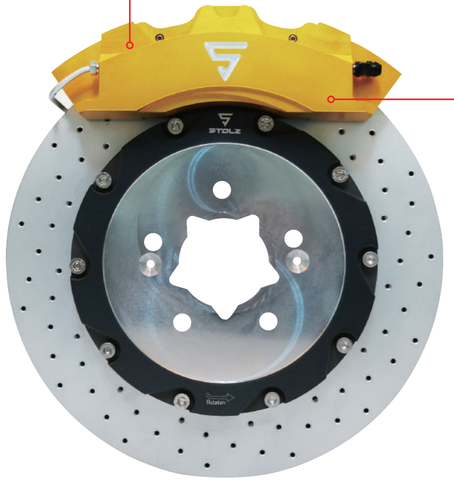
No. D121028JA

DIFFERENTIATION

Design: It is the only system that satisfies both design and performance by phasing the trendsetting design and brake control. The system provides optimum balance.

Brake system: It is 100% compatible with all electronic devices including genuine ABS (OEM) and TCS, and others. Based on research data, it is manufactured to achieve the best vehicle performance in consideration of the capacity of a genuine master cylinder.

Product differentiation: It provides a complete braking control before the antilock brake system (ABS) is activated. It provides a braking force that depends on the depth of the pedal and delays reaching the critical point.



SYSTEM CONFIGURATION

① Caliper (4-piston caliper)
② Ultralight disc (350 mm)
③ Bracket
④ High-performance pad

※ Select a product based on the weight of a vehicle, the driver's orientation, and other factors.

CALIPER

It goes through the ultraprecision machining process of the MCT using forged aluminum alloys. The pistons inside the caliper and cylinders are also manufactured using forged aluminum alloys, and have excellent durability. The caliper lowers the thermal conductivity of the pad to maintain the best performance.

The first seal of the double sealing prevents foreign substances from entering, while the second seal maintains a stable hydraulic pressure. It is a self-manufactured seal and gains an excellent thermal resistance by improving the disadvantages of general seals.

BRACKET

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. It is also designed to withstand about 1.5 times of fatigue failure and the maximum stiffness.

The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of the car's body structure. SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

Installation specifications: For medium-sized or compact vehicles, and for the rear of full-size SUVs

PISTONE : 4
MATARIAL : ALUMINUM
CALIPER COLOR
Gold, original silver
Gunmetal, black

ULTRA LIGHT DISC

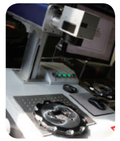
ABOUT

An ultralight disc rotor with maximum stiffness and minimum weight

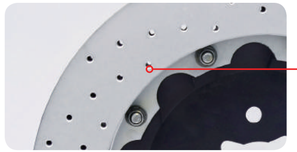
It is designed as a two-piece type (disc plate and bell housing) that is to be controlled with the force that is applied to the caliper during braking.

The aerodynamic system (curved lines are selected instead of straight lines) is applied during the design of the disc rotor rib, and the inner disc pin is also designed for a smooth fluid flow.

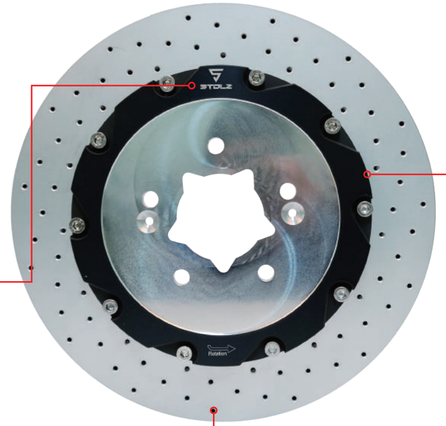
Stainless steel pins and oval pins are used to tighten the bell housing and the disc plate. These pins not only balance the stress that is applied to the disc and the bell housing with different materials but also prevent the transfer of frictional heat to the bell housing to reduce deformation and increase durability.



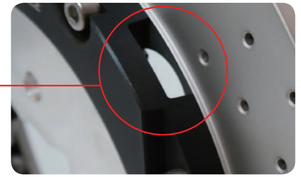
Stolz's products, which have a laser-engraved logo, are distinct from other products.



The drilled disc rotor with an excellent heat dissipation lowers frictional heat, which is delivered to the pad and the caliper, and maintains the best performance. (Proportional to the number of holes)



PATENT



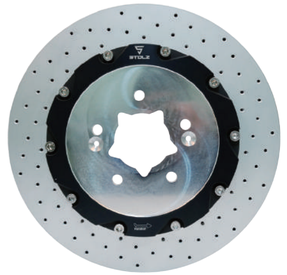
Patent No. 10-1531105

It is a new, technology-intensive ultralight disc rotor that minimizes performance degradation against heat by applying aerodynamics to the disc rotor and the bell housing.

Design Registration No. 30-0772554

The contact area of the assembly is increased by improving the structural limits of the lightweight disc rotor while durability is increased using forged materials. The said contact area is also designed to be 1.5 times bigger, wherein the force is applied during braking in consideration of the braking properties to maximize the structural function.

DISCS



Disc rotor assembling bolt

It balances the stress that is applied to the disc and bell housing with different materials to prevent thermal deformation and increase durability. SUS materials are used to fasten the bolts of the caliper, disc, and bracket to prevent oxidation.

Ultralight bell housing

An MCT in the plant

Bell housing machining by the MCT

Bell housing differentiation

It features an inner flow passage that considers rotational properties using forged aluminum alloys.

Patent No. 10-1531105

Design No. 30-0772554

BRACKET

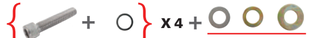
DESIGN :

It is optimally designed for each model using the same forged aluminum alloys that were used in the caliper. The curved surfaces of the 3-D design are formed by the MCT with an excellent machining accuracy to minimize the interference of the car's body structure.

SPRING :

It absorbs vibrations that were caused by the operation of the caliper, and the special spring washer is mounted to prevent the loosening of the bolt.

Stolz's products, which have a laser-engraved logo, are distinct from other products.



For offset control during assembly

SFZ/FEX
SFZ SERIES

BRAKE PAD

Stolz launches a new brake pad for the safety and convenience of customers.

The Stolz brake pad is manufactured based on confidence on high-performance brakes, and shows a powerful braking force and possesses continuous technical development and the best quality.

BRAKE

It maintains the constant friction coefficient for repetitive braking at high temperature and has an excellent safety.

NOISE

Minimize noise by installing a vibrational absorption plate.

CLEANLINESS

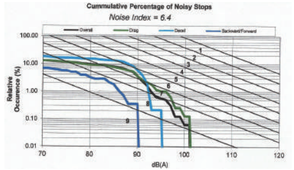
Non-Asbestos Organic (NAO) compound technology, which minimizes the contents of steel (the causes of brake noise and dust), is applied to the pad.

DISC ROTOR

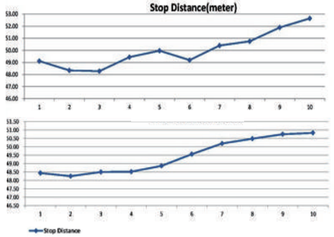
Minimize disc damages that are caused by brake friction materials.

Official noise test report

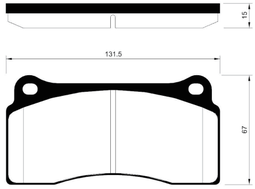
template	Warm Section			
	>70 dB[A]	>80 dB[A]	>90 dB[A]	>1000 dB[A]
Target(%)	<10	<3	<0.8	<0.2
Measured(%)	0.0000	0.0000	0.0000	0.0000
template	Cold Section			
	>70 dB[A]	>80 dB[A]	>90 dB[A]	>1000 dB[A]
Target(%)	<10	<3	<0.8	<0.2
Measured(%)	0.0000	0.0000	0.0000	0.0000



Official braking performance test report



Pad size



SFZ
SFZ SERIES

ACCESSORIES

Pad

Non-Asbestos Organic (NAO) compound technology, which minimizes the contents of steel (the causes of brake noise and dust) Technology-applied pad

Piston

A structural design that maximizes heat dissipation and equally transmits hydraulic pressure using forged aluminum alloys

Caliper assembling bolt and alignment pin

Use SUS materials to prevent oxidation.

Pad accessories

Minimize vibration and noise by installing a vibrational absorption plate on the pad.

Caliper oil line accessories

Pipe, nipple, nipple cap

Dust seal

It prevents foreign substances from entering and maintains a stable hydraulic pressure.

Hydraulic brake oil

Brake Fluid DOT 4

※ The above components are subject to change anytime depending on the manufacturer's circumstances.