



## *CARBON CERAMIC BRAKE DISC*

Be the Carbon Champion!  
Introducing state of the art composite technologies



**DACC**  
CARBON



Be the Carbon Champion!

## ABOUT DACC CARBON

DACC CARBON is South Korea's first and only company dealing in the field of ultra-high temperature carbon composites. It has been in this industry since 1988. All of our employees have been enthusiastically devoted to the localization of defense industry products. As a result, we have developed and mass-produced carbon brake discs for aircraft, ultra-high temperature heat resistant materials and are also exporting carbon brakes overseas.

Carbon-Carbon Composites were mainly used for aerospace industry such as aircraft brake discs, gas turbine blades, rocket nozzles, re-entry space shuttles. Based on these technologies, we have completed the development of Carbon-Ceramic brake discs for premium automobiles.

In the general industrial material market, with our own technologies that started from the ultra-high temperature Carbon-Carbon Composites, Carbon-Ceramic Composites, we are expanding our business of the Carbon-Ceramic Brake Discs to the world in order to meet customer's needs.



## ABOUT CARBON CERAMIC BRAKE DISCS

Presently, Carbon-Carbon Brake Discs are used for Formula 1 racing which requires ex-friction under the low temperature (below 150°C) and wet road condition. To overcome these performance issues, Carbon-Ceramic (C/SiC) Brake Discs have been used for passenger cars since year 2000. The market of Carbon-Ceramic brake discs continue to grow. The use of Carbon-Ceramic Discs contributes to a cleaner environment.

Thanks to its light weight qualities, the Carbon-Ceramic Brake Discs allow a reduction of fuel consumption and CO<sub>2</sub> emissions. Weight reduction allows for engine power saving by using less energy to accelerate and decelerate. It means that C/SiC brake disc users can be eco-friendly and also have significant advantages in driving comfort. Carbon-Ceramic Brake Discs are above 50% lighter than the iron brake discs, offering better fuel efficiency and drivability. The products have a lifetime of over 300,000km and have an excellent stable braking performance in high temperature and also 15% shorter braking distance than iron brake discs.

### ABOUT CARBON CERAMIC BRAKES

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Weight reduction 50%

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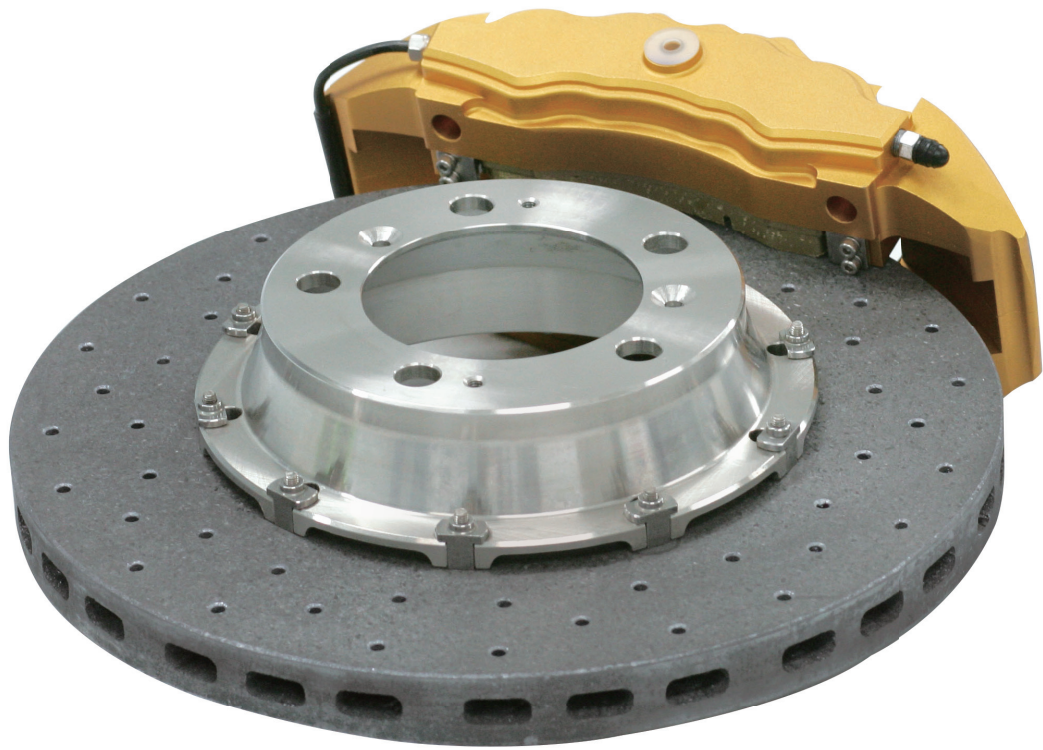
Four times longer lifecycle

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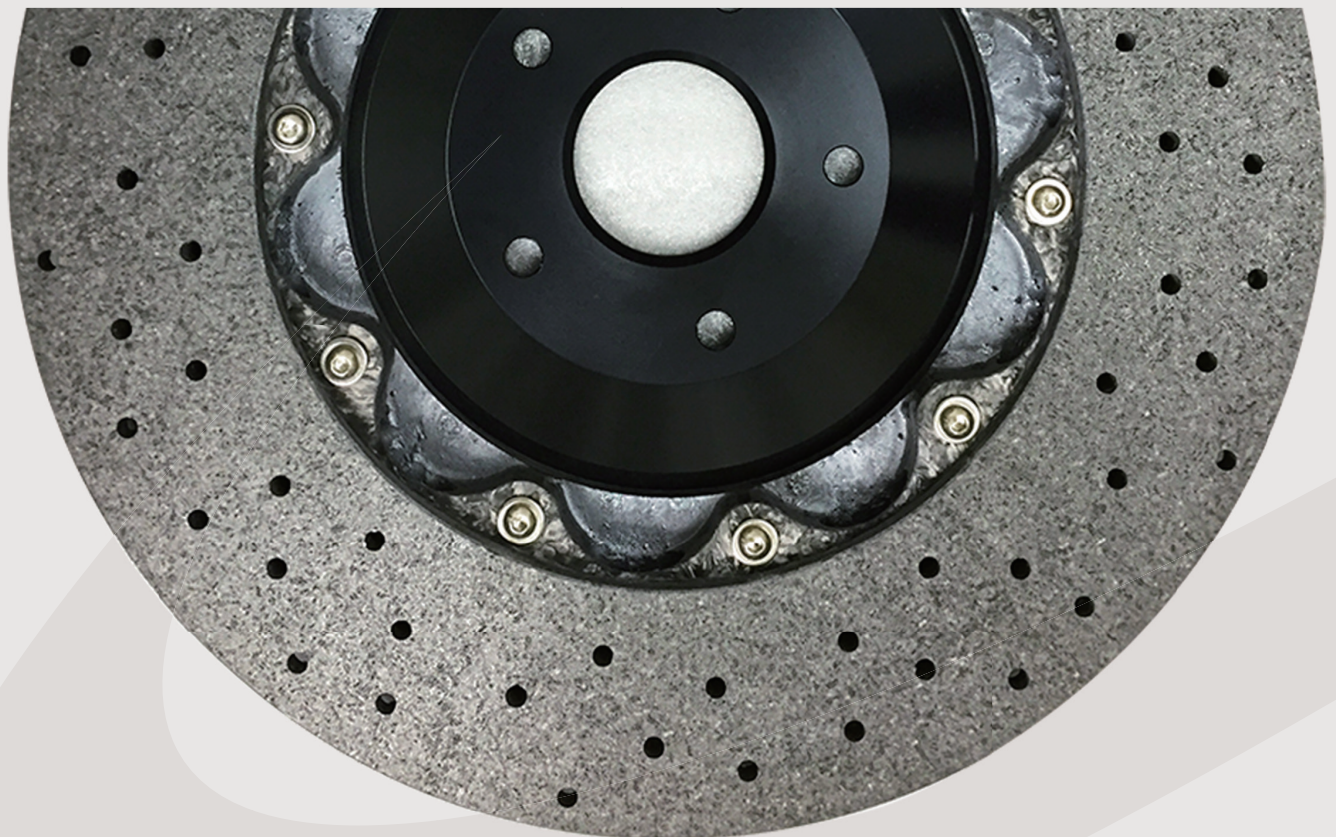
Stable and high braking performance at high temperature

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High thermal shock resistance at high temperature(~ 1300°C )



HX type



PX type

## HX TYPE & PX TYPE

DACC CARBON supplies 2 types of the Carbon Ceramic Brake Discs in accordance with usage condition.

### HX TYPE CERAMIC BRAKE DISCS

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Constituent of friction surface : Little Carbon fiber contents

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Minimum weight and high friction coefficients

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Range of application : Public road, race track, sprint racing and endurance racing

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Adaptable brake pads: RSC1/2/3 of PAGID in accordance with driving conditions

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### PX TYPE CERAMIC BRAKE DISCS

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Constituent of friction surface : Carbon fiber & Ceramic

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Minimum weight and medium high friction coefficient

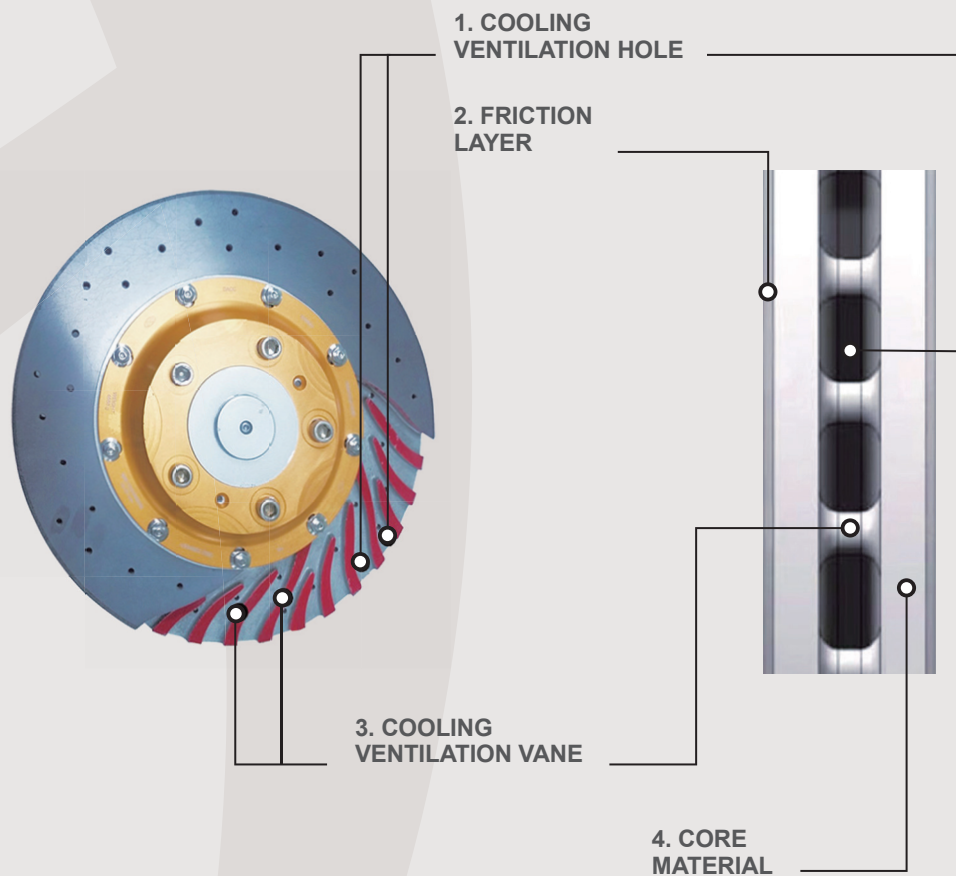
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Range of application : Public road and race track

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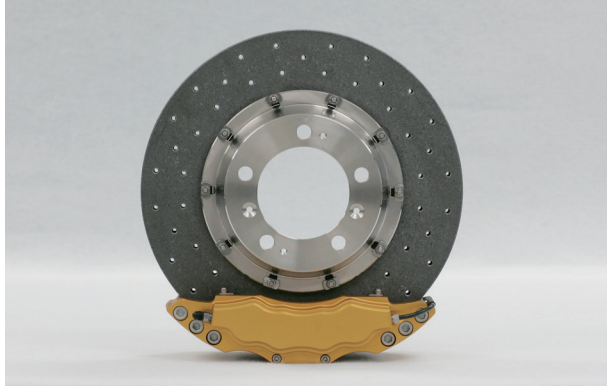
Adaptable brake pads: RSC1 of PAGID

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# DACC's CARBON CERAMIC BRAKE DISC SPECIFICATION

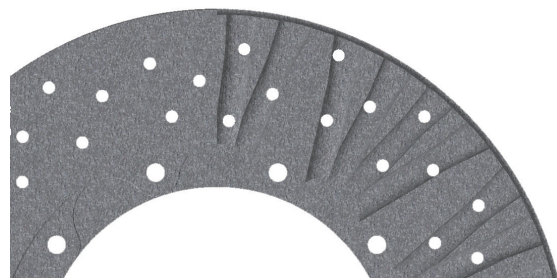
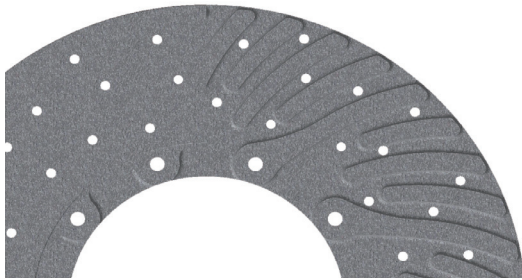
## PRODUCT SIZE



OUT DIAMETER	Up to 420ø
THICKNESS	Up to 40mm

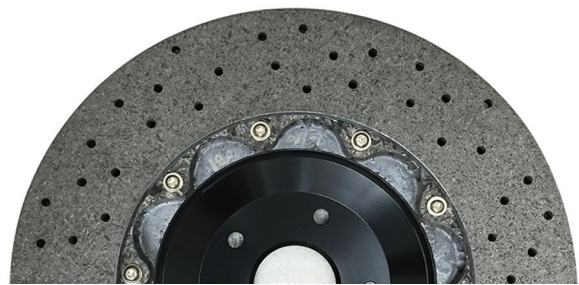
## VENTILATION TYPE

SPIRAL	STRAIGHT
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## SURFACE TYPE

HX TYPE(SILICON)	PX TYPE(CARBON)
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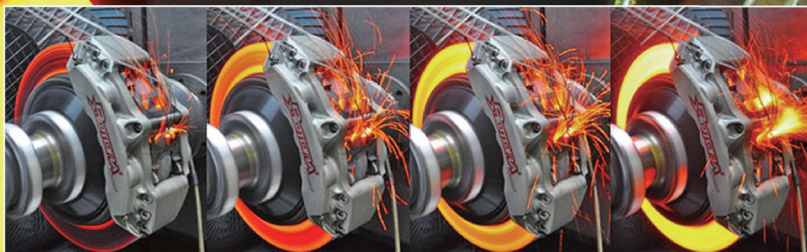
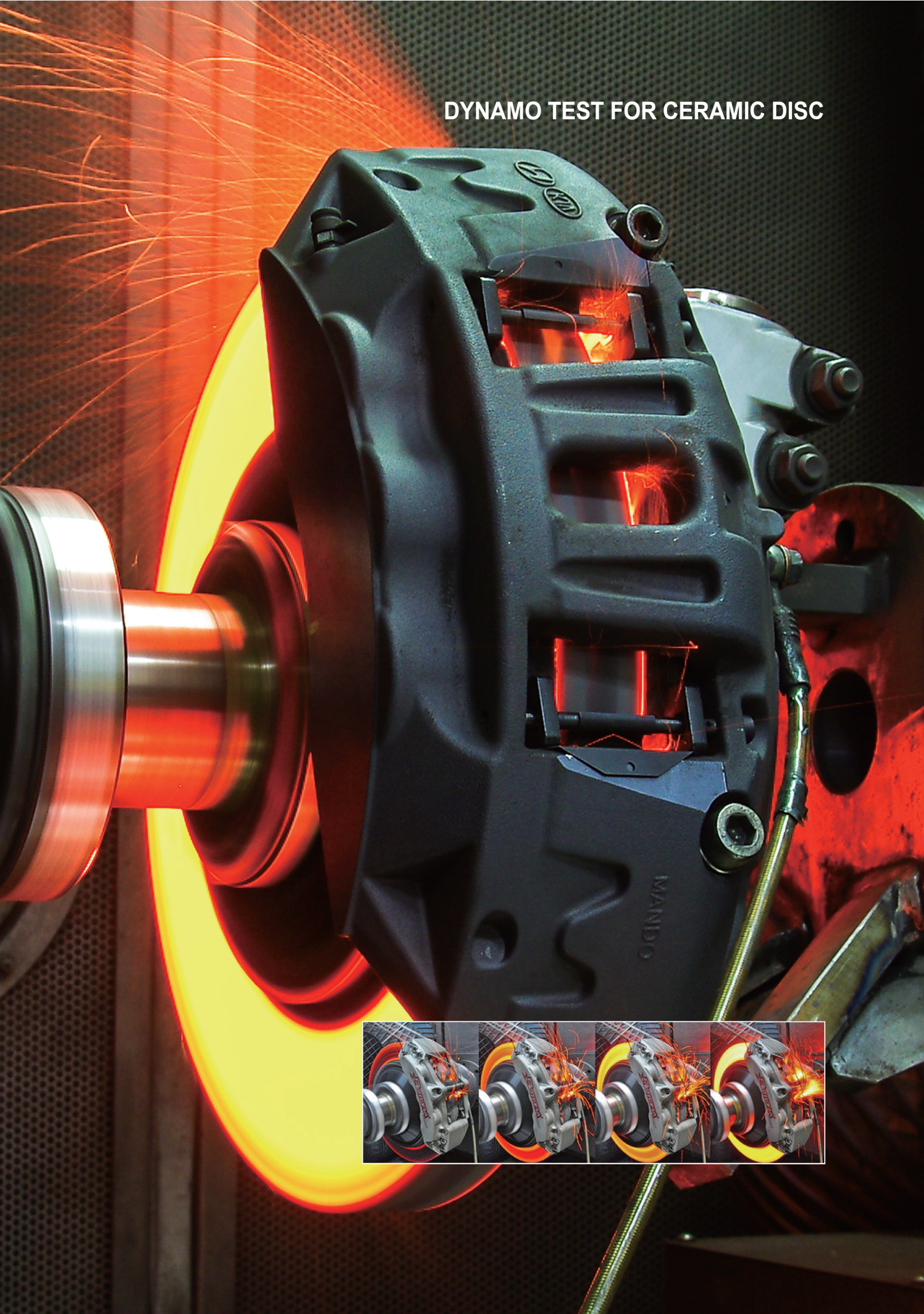
## HAT PART(BELL)

WITH BELL	WITHOUT BELL
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# DYNAMO TEST FOR CERAMIC DISC



# DREAMING AND CHALLENGING COMPANY DACC CARBON

AS 9100 Rev.C



ISO 9001



KDS 0050-9000



# CAPABILITY & QUALITY

## CAPABILITY

DACC CARBON will maximize the customer's value with advanced composite material technology. DACC CARBON is a real total solution provider in the field of High Temperature Carbon or Ceramic Composite industry.

## QUALITY

DACC CARBON provides with Quality Assurance System for as design, material, production and shipping. We will realize Systematic Quality Management including Risk Management and Quality Assurance, which are based on a continued improvement for better Quality Level of every design and production process.

## MANUFACTURING EQUIPMENT



TG-CVI

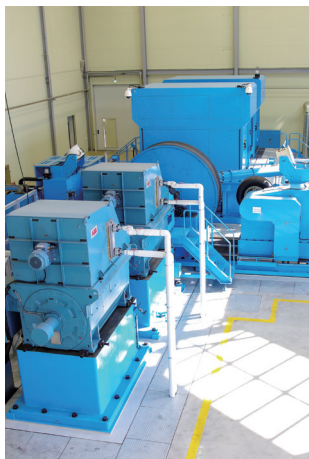


HIGH TEMP.FURNACE(2800 °C)



SMI FURNACE

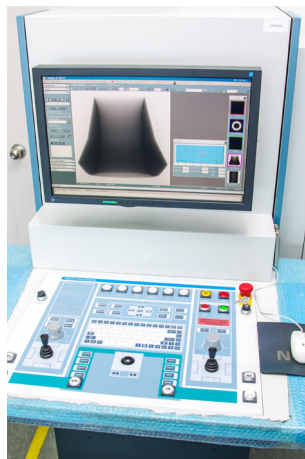
## TEST EQUIPMENT



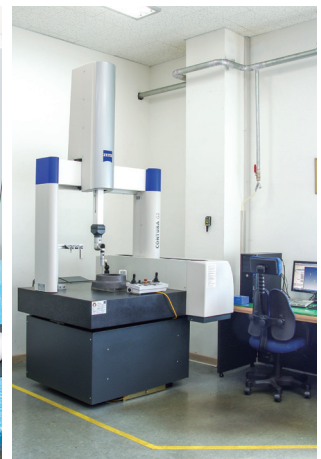
AIRCRAFT DYNAMO  
TESTER



AUTOMOTIVE DYNAMO  
TESTER



RADIOGRAPHIC  
TESTER



CMM, COORDINATE  
MEASURING MACHINE



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