

# Kurashiki Boring Kiko., Ltd.



Surface Modifications



Finishing



President	Mrs. Sayaka Sako
Established	1957
Capital	30,000,000 JPY
Employees	76
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## Quality Management Certifications

- JIS Q 9100: 2009
- ISO 9001: 2008

## Office / Plant

Matsue head office and Factory, Kamogata Factory

## Core Technologies and Capabilities

Surface modifications (Thermal spraying, KuraCera®)  
Finishing

## Materials

Metal, alloy (Aluminum, Titan, etc.)  
Ceramics (Alumina, Titania, Chromia, etc.)  
Cermet (WC, Chrome carbide, etc.)

## Major Customers

### 【Other sectors】

Mitsubishi Heavy Industries, Ltd.  
Mitsui Engineering & Shipbuilding Co., Ltd.

## Strengths and Competitive Advantage

### Our technologies

- We have an integrated production system, from designing to finishing, which meets diverse customers' needs.
- With our thermal spray technologies, we are able to provide high quality thermal barrier coatings for aircraft parts.

### Our aircraft industry products

#### Thermal Barrier Coating (TBC)

【Characteristic】 Thermal insulation, high temperature corrosion resistance coating

【Process method】 Plasma thermal spraying

【Material】 Ceramics, cermet, etc. (High-melting-point materials)

【Thickness】 0.5 - 0.7mm

【Processable materials】 Titanium, aluminum alloys, polymers, and a variety of other materials

【Scope of application】 Combustion chambers, turbine blades, etc.



#### Wear and corrosion resistant thermal spray coating

【Characteristic】 Wear resistance, corrosion resistance, and fatigue resistance coatings which are superior to hard chrome plating.

【Process method】 HVOF (High velocity oxy-fuel thermal spraying)

【Material】 Cermet (WC)

【Thickness】 0.075 - 1mm

【Hardness】 Hv1300

【Processable materials】 Titanium, aluminum alloys, polymers, and a variety of other materials

【Scope of application】 Landing gear, turbines, fan blades, etc.



## Main Equipment

Equipment	Capability	Q'ty	
Plasma thermal spraying equipment	Inner diameter 80-1,500mmdia	10	
	Outer diameter 2,500mmdia		
	2,000×13,000×50ton		
HVOF thermal spraying equipment	Inner diameter 150-1,500mmdia	8	
	Outer diameter 2,500mmdia		
	2,000×13,000×50ton		
CNC cylindrical grinding machine Roll grinder	560mmdia×2,500×1ton	2	Total 4
	580mmdia×1,600×1ton	1	
	2,000mmdia×13,000×50ton	1	
NC turning machine	370mmdia×2,800×2ton	2	
CNC roll turning machine	1,200mmdia×13,000×10ton	1	
NC milling machine	400B×900mmL×400mmH	1	