



A Gift for the Future

J PRESS Co., Ltd.

Advanced Thermal Spray Solutions from Japan

Enhancing durability and corrosion resistance in harsh environments



Thermal spray coating creates a strong protective layer that improves corrosion resistance, extends service life, and reduces maintenance costs.



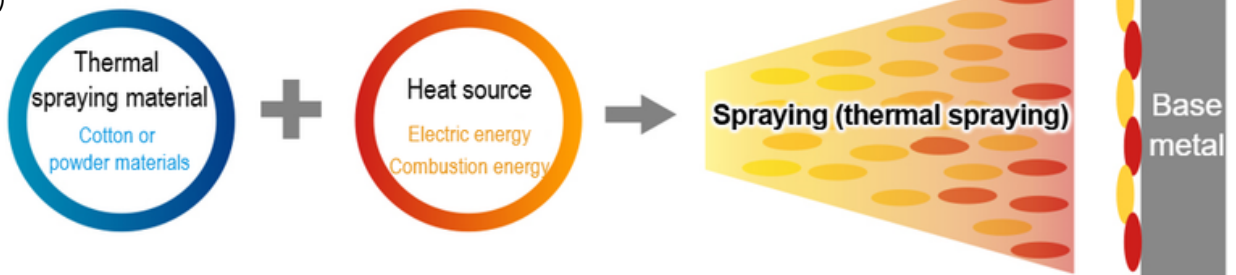
High-quality coating solutions to protect metal components used in bridges, energy facilities, and marine environments.



Our products, including high-strength bolts, are widely used in Japan's infrastructure and have proven performance in severe conditions.

What is Thermal Spraying?

A metal (spraying material) with a lower potential than that of the base metal is melted using a heat source and sprayed on the base metal as a sacrificing material.



Durability Test (Salt Spray Testing)

Al-Mg thermal spray coatings demonstrate significantly superior corrosion resistance compared to conventional hot-dip galvanizing.

While hot-dip galvanized coatings begin to lose protective performance after approximately 1,500 hours, Al-Mg thermal spray coatings maintain their performance for over 6,000 hours, achieving more than four times the durability.

This result confirms that thermal spray coatings are highly effective for long-term corrosion protection, especially in severe environments.

Coating method	Coating thickness	Testing time, hrs					
		0		3,000		6,000	
		Plate	Bolt	Plate	Bolt	Plate	Bolt
Al-Mg thermally sprayed	100 μm min ave 150 μm						
Hot-dip galvanized	550 g/mm ² min						
Fluorine based heavy duty coated	6 Layer coating Film thickness 250 μm						

4 to 5 times more effective than molten zinc plating in preventing corrosion

※1 : JIS H 8502 is a standardized salt spray test in Japan used to evaluate corrosion resistance by simulating a salt mist environment.

Achievements



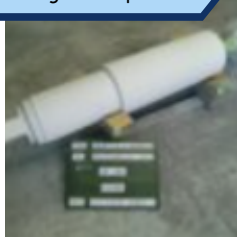
9-ton Bridge Girder



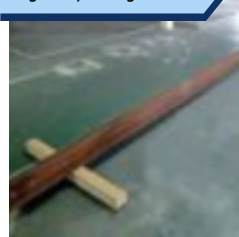
Rubber Bearing for Bridges



Bridge Damper



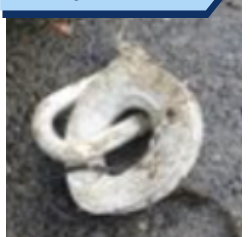
Highway Bridge Girder



Application to Scuba Tanks



Fishing Hardware



With a dominant shipping record to Japanese Highway Agencies, these bolts are trusted components in Japan's leading highway and bridge infrastructure.

YEAR	Customer	Application	Thermally Sprayed Bolts, pcs			
			F10T Hexagonal Bolts	S10T Twist-off Bolts	Standard Bolts	Anchor Bolts
2012-2024	Nippon Expressway Company	Construction, renewal & maintenance of bridges	790,000	731,000	4,300	200
2015-2024	Local government & Ministry of Land, Infrastructure, Transport and Tourism		47,000	205,000	-	-
Total			1,777,500			

J PRESS Co., Ltd.
 1344-1 Oaza Hirotsu, Yoshitomimachi, Chikugo-gun, Fukuoka, Japan
 +81-979-24-9830



@JPRESS.OFFICIAL