

Galvanizing

# Spin Galvanizing

Cost-effective corrosion protection for small to mid-sized steel components



## AZZ'S SPIN GALVANIZING PROCESS DELIVERS HIGH-QUALITY FASTENERS

- 100% Complete and consistent coverage
- 1.7 to 3.4 mils coating thickness
- Cathodic protection
- 3,600 psi coating bond strength
- Hardness— difficult to damage during tightening
- Temperature range: continuous exposure in arctic climates to the extremes of 392°F
- Paintable— prepared according to ASTM D 6383

### Coating uniformity, quality fits, and precise functionality

The durability of the smallest components can be critical to a structure's integrity and performance. These small components often have intricate designs requiring that a protective coating does not interfere with surface integrity.

Spin galvanizing is a hot-dip process which utilizes a centrifuge anchored to a galvanizing kettle (or a spinner located above it) for immersing small to medium-scale components in molten zinc. A tightly bonded alloy coating forms on the steel, providing long-term, durable protection from the devastating effects of corrosion, while the centrifuge or spinner removes excess molten zinc to ensure coating uniformity, quality fits, and precise functionality.

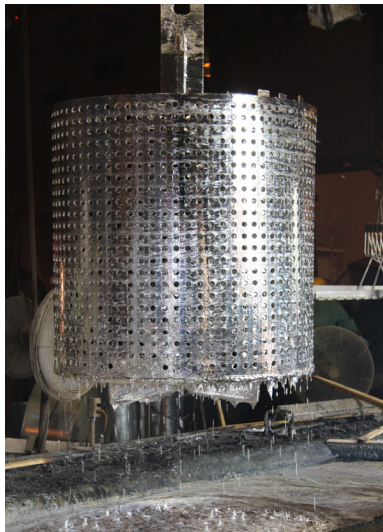
The spin process, combined with AZZ's automated conveyor lines, are used for a wide range of small to medium sized components including all thread rods, nut blanks, guardrail bolts, anchor bolts, washers, turnbuckles, and wheels. Our high quality spin process guarantees even coating for secure connections and lasting fits, while ensuring the visibility of required identification and specification information engraved or stamped in the steel.

### Long-term protection of vital infrastructure

Structural safety and stability are critically important to the integrity of steel construction and cannot be maintained if the structure has been weakened by corrosion. Hot-dip galvanized fasteners and other small components, which remain corrosion-resistant for decades, preserve the structural integrity of steel construction.



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## Sustainable and cost effective material solution

Protecting steel from corrosion and critical mechanical property loss is crucial. Spin galvanizing provides a protective barrier that stands between it and the elements, preventing corrosion, resisting abrasion and prolonging the life of the steel. By using 100% naturally occurring zinc in our hot-dip galvanizing, we are part of a wholly recyclable process that provides maintenance-free corrosion protection that lasts for decades.

## Certified, trusted quality from AZZ

AZZ is North America's leading provider of hot-dip galvanizing with more than four decades of experience and an expansive network of more than forty galvanizing locations. We have perfected the spin/centrifuge process resulting in galvanizing excellence for small parts, fasteners, nails, staples and structural pieces. Our tightly controlled processes can ensure a quality nut fit on threads as small as 1/4"-20. All of AZZ's spin operations are in adherence with standard specifications ASTM A153 and ASTM F2329, and ISO 9001 and 14001.

INDUSTRY  
TIP

### DID YOU KNOW?

It is recommended to always  
use HDG fasteners with HDG  
fabricated steel.

## SPIN GALVANIZING APPLICATIONS

Used for a wide range of small to medium-scale components, including all thread rods, wheels, nut blanks, bolts, washers, turnbuckles, nails, and staples, which have many applications in the structural, mechanical and fabrication industries:

- Connecting and fastening hardware
- Small structural members, tubular fabrications, and railings
- Industrial
- Electrical utilities
- Wheels and weldments
- Signage
- Original equipment manufacturing

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