

# ROLLER COVERING FOR THE METAL INDUSTRY

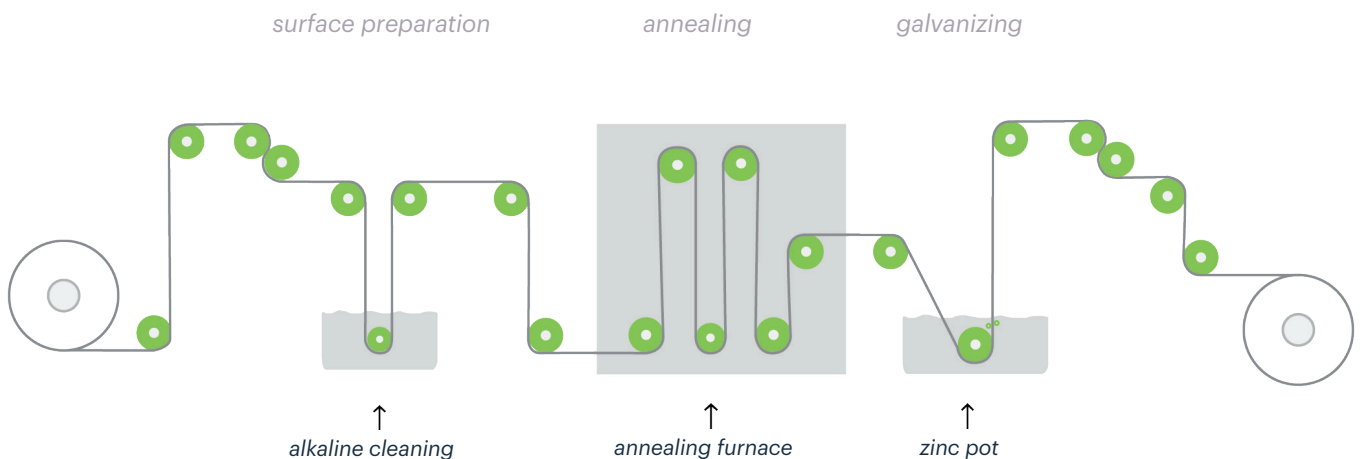
## ZINC POTS

### Ensuring Quality and Durability in Hot Dip Galvanizing Lines

Hot Dip Galvanizing Lines (HDGL or CGL) create a protective zinc coating on steel strips, widely used in industries like automotive, construction, and home appliances. This zinc layer shields the steel from corrosion, significantly extending its lifespan.

The galvanizing process involves several continuous steps, including cleaning, annealing, and tempering, to ensure a high-quality finish. At the heart of this process are the rolls in the zinc pot, along with the stabilizer and tower rollers. These components are critical for both product quality and the longevity of the equipment.

Hannecard provides comprehensive solutions for these essential rollers. From thermal spray covers to mechanical finishing, repairs, and journal lifetime extension, we help ensure your equipment operates efficiently and reliably for years to come.



*Hannecard also provides rollers and roll covers for various other positions across the galvanization line*



## Our turnkey solution for sink rolls (bottom rolls) & stabilizer rolls: ZincGen

The pot rig plays a crucial role in galvanizing, as it's submerged in molten zinc and ensures the stability and precision of the process. The performance and surface quality of the pot rolls directly impact the final quality of the galvanized steel.

At Hannecard, we provide top-tier coatings and finishing solutions for pot rolls, along with comprehensive maintenance, repair, and journal upgrades. Our goal? To help you extend production campaigns while ensuring your steel strip quality stays at its best... or gets even better.

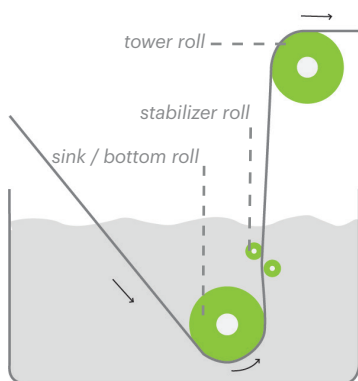
## Our turnkey services

At Hannecard, we offer a full range of services to ensure your equipment operates at peak performance:

- **Thorough inspections:** Detailed assessments to identify wear, damage, or inefficiencies.
- **Acid pickling:** Cleaning of rolls, arms, scraper blades, and bearing housings for optimal performance.
- **Mechanical repairs:** Expertise in restoring components to their original condition.
- **Disassembly and assembly:** Precision handling of your equipment during maintenance.
- **Specialized coatings:** High-quality coatings for arms and ingot hooks.
- **Journal Repairs:** Dimensional restorations to extend the lifespan of roll journals.
- **In-House grooving:** Micro and macro grooving tailored to your specifications.
- **Advanced seal treatments:** Multiple options, including furnacing, for enhanced durability.
- **Journal re-stubbing & shaft repairs:** Expert solutions for damaged or worn shafts.



## Our ZincGen coating solutions



scheme of a zinc alloy molten bath (zinc pot)

Coating solutions	Characteristics
<b>ZincGen A</b>	<ul style="list-style-type: none"> <li>• Designed for automotive steel</li> <li>• Enhanced pick-up resistance</li> <li>• Improved oxidation and corrosion resistance</li> <li>• Excellent abrasion resistance</li> </ul>
<b>ZincGen B</b>	<ul style="list-style-type: none"> <li>• Engineered for architectural, thicker gauge steel</li> <li>• Good pickup resistance</li> <li>• Good corrosion, oxidation and abrasion resistance</li> </ul>
<b>ZincGen S (only available in US)</b>	<ul style="list-style-type: none"> <li>• Developed for the additional dross protection when producing automotive exposed steel.</li> <li>• Very good pick-up resistance</li> <li>• Very good corrosion and oxidation resistance</li> <li>• Very good abrasion resistance</li> </ul>
<b>ZincGen X (only available in US)</b>	<ul style="list-style-type: none"> <li>• Our premium solution, for extended campaign and challenging pot conditions.</li> <li>• Excellent pickup resistance</li> <li>• Excellent corrosion and oxidation resistance</li> <li>• Very good abrasion resistance</li> <li>• *not suitable for all pot chemistries</li> </ul>

Customized multilayer coating systems are available for specific pot chemistries upon request

## Our ZincGen benefits

At Hannecard, our complex multilayered coating systems are engineered to excel across diverse pot chemistries, including high-strength steel, manganese chemistries, and automotive-exposed steel.

Our coatings are developed for:

- **Reduced dross pick-up:** Minimize contamination for cleaner operations.
- **Increased density:** Enhanced coating integrity reduces zinc penetration.
- **Abrasion resistance:** Stand up to tough conditions with ease.
- **Wear and corrosion resistance:** Extend equipment life with durable protection.

Our mission is to help you achieve longer campaign durations and boost production efficiency, ensuring consistent throughput and superior results.



## Our coating solutions for pot roll journals: ZincShield

Coating solution	Characteristics
ZincShield	<p>Engineered for:</p> <ul style="list-style-type: none"> <li>• Corrosion resistance</li> <li>• High temperature</li> <li>• Tension and Pressure</li> <li>• Abrasion resistance</li> <li>• Compatibility with ceramic bushing and bearings</li> </ul>

## Our covering solution for tower rolls: TowerGen

After coating, the zinc layer on the steel strip remains fragile as it cools. The tower roll plays a critical role in guiding and stabilizing the strip during this phase. However, wear and zinc pick-up can threaten both the strip's quality and the stability of the process. Surface defects on the tower roll can further compromise performance.

Hannecard offers advanced thermal-sprayed coating solutions designed to reduce particle pick-up and minimize wear caused by cleaning systems. These coatings not only protect the roll surface but also significantly extend its service life, ensuring smoother operations and higher-quality results.

Coating solutions	Characteristics
TowerGen 1	<ul style="list-style-type: none"> <li>• Ground and polished surfaces to allow for virtually defect free coatings</li> <li>• Good pick-up resistance</li> </ul>
TowerGen 2	<ul style="list-style-type: none"> <li>• Enhanced wear resistance metal matrix coating with release properties</li> <li>• Excellent pick-up resistance, even in higher temperature applications</li> <li>• Super-finishing options including complex cylindrical crowns</li> </ul>



## Our Hannecard advantages

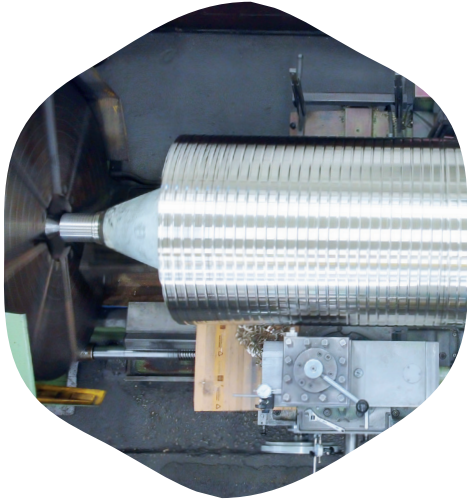
At Hannecard, we deliver more than just services—we offer tailored solutions designed to meet the unique demands of your production line.

### Complete roll refurbishment:

- **Journal rebuilding:** Restore correct diameters and lengths for optimal performance.
- **Precision grooving:** Micro and macro grooving customized to your specifications.
- **Turnkey solutions:** Seamless support aligned with your outage schedule

### Why choose Hannecard?

- **Over 30 years of expertise:** Proven technology and trusted solutions.
- **On-site inspections:** Hands-on evaluations for timely maintenance.
- **In-house laboratory:** Advanced quality testing and development, led by our PhD Metallurgist.
- **Durable journal solutions:** High wear-resistant options for extended roll life.
- **Customized coatings:** Reduce dross pick-up, minimize wear and corrosion, and improve strip quality to maximize campaign lengths.



### MORE INFORMATION?

For more information, please contact your local Hannecard partner or visit our website at:

[www.hannecard.com](http://www.hannecard.com)  
[www.hannecardrollercoatings.com](http://www.hannecardrollercoatings.com)