



317 North Mechanic Street, Jackson, MI 49201  
Phone: 517-783-4776 Fax: 517-783-5875  
[www.mechanicalplating.com](http://www.mechanicalplating.com)

## Seven Good Reasons for Mechanical Galvanizing

**Mechanical Galvanizing** is an extension of the well-established mechanical plating (peen plating) technology. The process is nearly identical to mechanical plating except that the amount of metal (zinc) deposited is substantially greater-galvanized coatings begin at 1 mil (.045 ounces per square foot) and go up to 1 1/2 ounces per square foot (3.3 mils). Generally, parts to be mechanically galvanized can be up to 1 pound in weight and up to 6 inches long.

**Mechanical Galvanizing** offers these important features, advantages, and benefits:

- **No hydrogen embrittlement.** Because Mechanical Galvanizing is an extension of mechanical plating technology, it does not produce hydrogen embrittlement and does not require lengthy pre-plate or post-plate baking cycles.
- **No detempering.** Mechanical Galvanizing is a room temperature process that does not detemper heat-treated parts.
- **Excellent thread fit.** Mechanical Galvanizing does not fill the valleys of threaded fasteners. Mechanical Galvanized parts mate quickly and easily.
- **No need to chase nuts after plating.** In hot-dip galvanizing, threads must be cut or chased after galvanizing, robbing them of protection and requiring extra expense. Mechanical Galvanizing produces parts that are ready to use without any further processing steps.

- **No galling.** Because of the composite nature of mechanical coatings, this naturally lubricious coating will not gall, producing more accurate torque-tension relationships.
- **No stickers.** In hot-dip galvanizing, molten zinc often fuses parts together, resulting in lost time, effort, and materials. In contrast, mechanically galvanized parts are 100% usable.
- **Excellent adhesion.** Because of the underlying coatings, Mechanical Galvanizing has excellent adhesion to the base metal.

With advantages like these, it is clear why knowledgeable users are making the move to Mechanical Galvanizing. Now is the time to move up to the high quality and unsurpassed performance of PS&T Mechanical Galvanizing.