

# HI-E<sup>SM</sup>

## High Efficiency Slotted Plating Barrel



***Better solution transfer, faster plating and less dragout combine to make the HI-E<sup>SM</sup> the most efficient and productive line of plating barrels available today.***

The slotted perforations of the HI-E<sup>SM</sup> not only facilitate better solution transfer, they also provide a more direct line of sight between anode and cathode, yielding maximum current potential per degree of revolution. The angle of each slot is precisely cut to allow for uniform sight distribution across the cylinder. The result; consistent plating in less time.

The geometry of the slotted perforations minimize dragout, producing less cross contamination while reducing chemical usage. Each exterior pocket is engineered to the proper depth dictated by the width of the slot and precisely angled allowing for maximum open area relative to strength.

Optional internal striations cut parallel to the slots keep flat parts from sticking, reduce premature peening and shading.

Adjacent panels have slots and striations oriented in opposing directions which allows for better distribution of the load relative to contact with the cathode.

The HI-E<sup>SM</sup> slotted cylinder is available on all new full size production and portable barrels and can be retrofitted to all barrel superstructures. SprayThru<sup>SM</sup> technology can also be added to the HI-E<sup>SM</sup> to boost plating speed and quality to unprecedented levels.

The high performance HI-E<sup>SM</sup> slotted plating barrel is truly the next generation of plating technology.

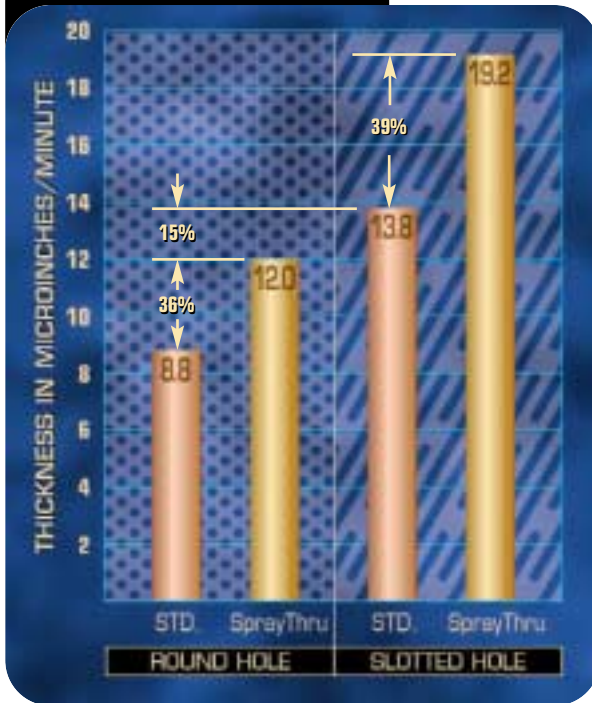


# Hardwood Line

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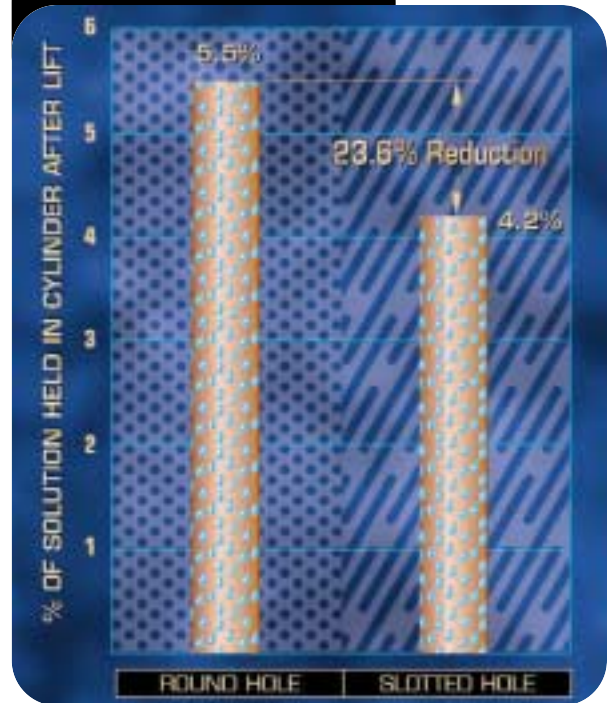
## CASE STUDY

### PLATING SPEED



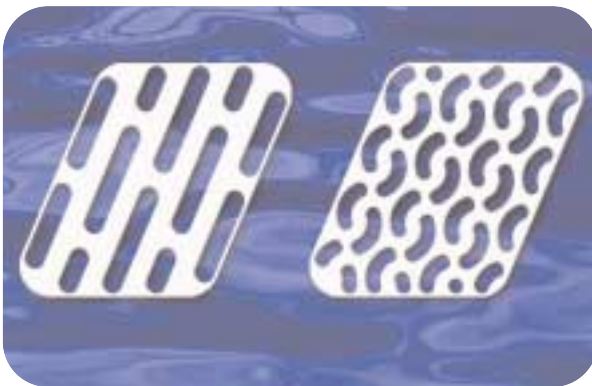
A comparison of the plating speed at maximum current density (before "burning" sets in) between 4 barrels showed the HI-E<sup>SM</sup> slotted barrel equipped with SprayThru<sup>SM</sup> plated over 100% faster (19.2 micrometers/minute) than a similar barrel with a standard hole configuration without SprayThru<sup>SM</sup> (8.8 micrometers/minute).

### DRAGOUT ANALYSIS



The irregular geometry of a slot prevents liquid from forming a well within itself. Tests have shown that because round holes generate equal wall pressure and surface tension they hold about 25% more solution.

## SLOT SIZES



Slots are available in all sizes from .010" dia. (.25mm) and larger. The cylinder can be configured with either scrubbed pockets or full panel slots in various lengths and shapes to suit your application. Please call and we will assist you in determining the best configuration for your needs.



For More Information Please Call:

**800.443.0093**

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