



Plating of blind hole

Through our surface treatment technology and results, Create new values.



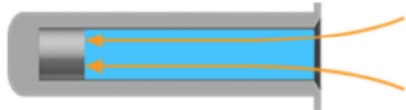
Blind holes—non-through concave cavities—are generally known for the difficulty in exchanging plating solution inside, which often leads to defects such as unplated areas (incomplete deposition) or discoloration.

At ERG, we have established a dedicated production line specifically for blind hole components, and we address these challenges using proprietary technologies, including mesh-assisted plating.

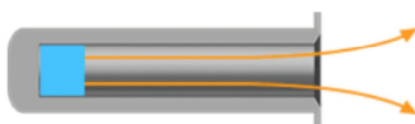
Internal plating of blind hole components

Problems encountered in blind hole electroplating

Insufficient penetration of the plating solution



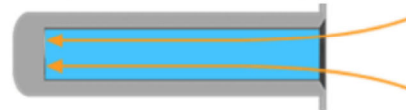
Residual solution remains



Improvement

ERG's approach to blind hole plating

Complete solution coverage



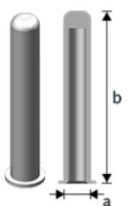
Complete drainage



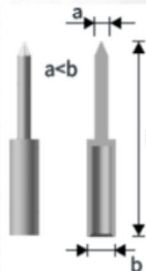
In blind hole components, solution penetration is limited, and once filled, drainage is poor. This often results in residual liquid and incomplete processing, increasing the risk of plating defects

A dedicated processing line for blind holes enables complete solution exchange, allowing defect-free treatment of internal surfaces.

Acceptable product size range



Plating is possible for aspect ratios up to approximately 1:10.



Even for components with shapes where the tip of a pin enters into a blind hole, ERG applies proprietary manufacturing techniques—including mesh-assisted plating—to prevent unplated areas and ensure complete coverage.

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ERGco.,LTD.

250-6, Uda Tomioka-city
Gunma 370-2451 Japan
TEL +81-274-62-2421
FAX +81-274-64-2379

