



Optimized drill design



開発ドリル加工事例

φ 0.3 Small-hole drilling performance Part. II

Work material: **ELC-4762**

t1.6(Double sided 18/18 μ mCu) **3 panels / stack**

Entry sheet: Aluminum t0.15

N:120,000 min⁻¹ F:2.7 m/min f:22.5 μ m/rev

Set life:6,000 hits

Work material : SUMITOMO BAKELITE CO.,LTD.



φ 0.3

application: FBGA / BGA / HDI etc...

φ 0.3mm 加工事例

用途 半導体パッケージ、ビルドアップ用内層コア材 等



Drilling condition [加工条件]

Work material : ELC 4762 t1.6(Double sided 18/18 μ mCu) 3 panels / stack

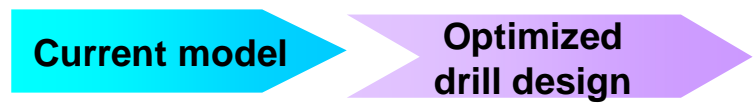
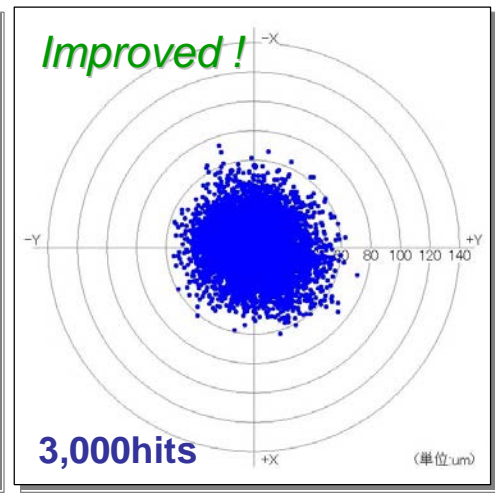
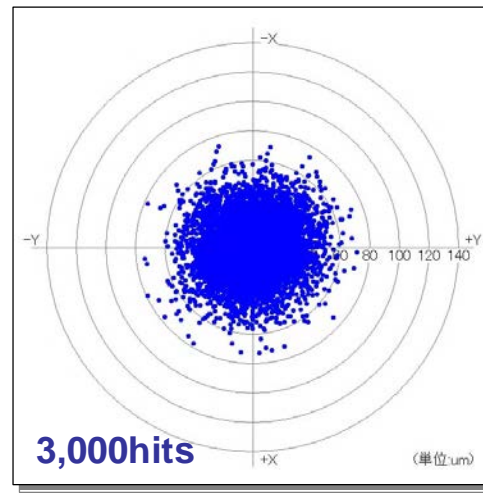
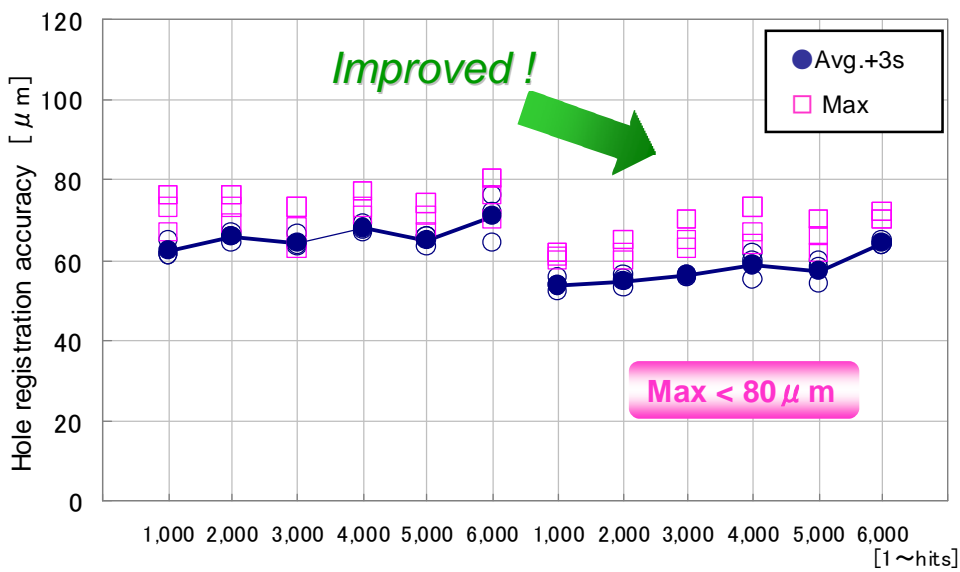
Entry sheet : Aluminum t0.15 Back-up board : SPB-W

N : 120,000 min⁻¹ F : 2.7 m/min f : 22.5 μ m/rev Set life : 6,000 hits

Halogen free material
Promising hole quality!
ハロゲンフリー基板における
安定した品質の確保を実現

Performance of optimized drill design [新規開発ドリルの性能]

Hole registration accuracy [穴位置精度]





φ 0.3

application: FBGA / BGA / HDI etc...

φ 0.3mm 加工事例

用途 半導体パッケージ、ビルドアップ用内層コア材 等



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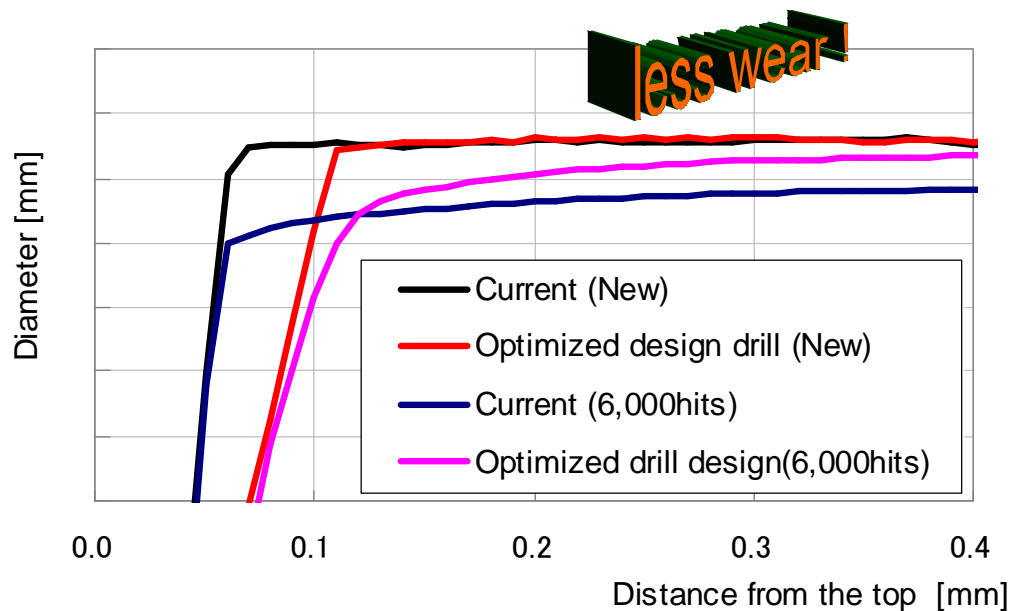
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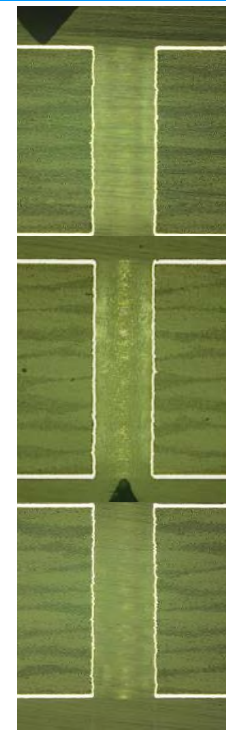
Performance of optimized drill design [新規開発ドリルの性能]

Drill diameter wear [外周摩耗]



Hole wall roughness [内壁粗さ]

Max < 20 μ m



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Bottom