



I.T.C. Intercircuit Production GmbH, Innere Gewerbestrasse 8, D - 09235 Burkhardtsdorf / OT Meinersdorf

EUROPES LARGEST VIA HOLE PLUGGING SERVICE

I.T.C. Intercircuit is the only manufacturer of hole plugging equipment that has its own plugging service. To meet the ever-changing needs of the PCB world, I.T.C Intercircuit is at the center of where those needs are met. We listen to and see our customers' demands first hand. It is with this knowledge that we can build the best cost-efficient equipment in the market. Vacuum chambers, wasteful paste consumption and inferior scraping systems only lead to higher costs of operation for companies who cannot afford to throw away valuable time & money in today's market.

Our hole plugging machines are in all markets from Asia to Europe to America. All are designed and built in Germany by Germany's finest engineers. America's largest hole filling service, HDI in California, *uses only I.T.C. equipment* – 3 THP 30's & 1 THP 35 for their customers' needs. We know that *'imitation is the greatest form of flattery'*. So, when we hear that some of our competitors are **now** offering a scraping chamber, heating & cooling as well as a re-capture system for paste, we know that I.T.C. Intercircuit is the leader – not a follower in our field.

ITC Hole plugging Equipment line:

I.T.C. Intercircuit Production GmbH in Burkhardtsdorf uses our own self-developed plugging machines:

THP 30, THP 35 and THP 35XXL.

We also use our very own

PD 50 and PD 30

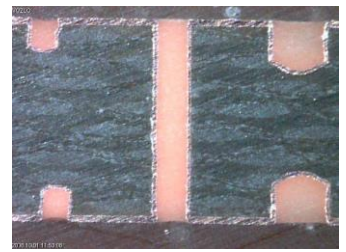
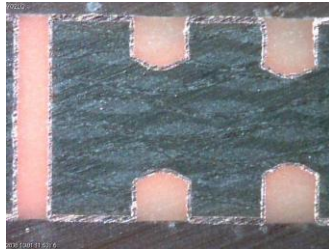
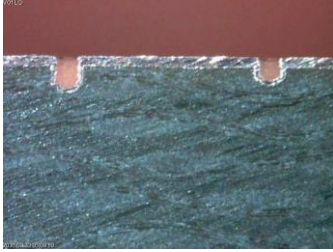
and two

WISE FLATSTAR

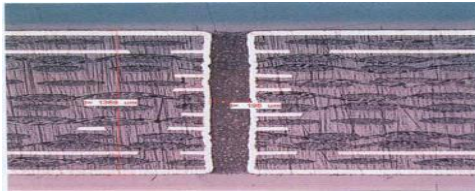
for planarization after hole filling.

ITC Hole Plugging Results:

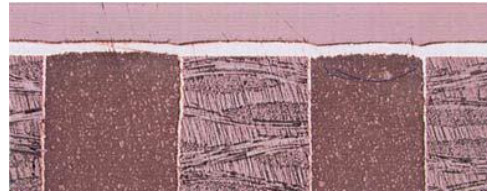
Through & Blind holes filled on THP35



Plugged & Planarized, hole 0.2 mm



Plugged & Plated



I.T.C. SERVICE:

- * Air-bubble-free hole filling according to IPC 6012
- * Plugging process is done with our patented Filling system
- * Selective plugging is possible
- * Partial plugging is possible
- * Reference holes are masked
- * Plugging of via holes on external layers for later copper stacking
- * Plugging of via holes on inner layers for the following RCC lamination
- * Perfect planarity of the panel surface by using special grinding methods.
- * Aspect ratio: up to 40:1
- * Min. hole size: .0.1mm after plating
- * Max. Hole size: AR 1:1, but absolute 2.0 mm
- * Min. Panel size: 100 mm * 150 mm
- * Max. Panel size: 762 mm * 978 mm
- * *Taiyo paste THP-100DX1 USA-VF (HV) was specially designed for I.T.C. Hole Plugging Machines other pastes on request
- * All panels are inspected & prebaked prior to hole filling
- * Generating of layer thickness protocol after grinding (according to customer specifications)

Test our Service – come and visit us

I.T.C. Intercircuit Production GmbH

Burkhardtsdorf/Germany

Tel: 037 21/39 92-0, Fax: 037 21/39 92-18

E-Mail: mhorn@itc-intercircuit.de