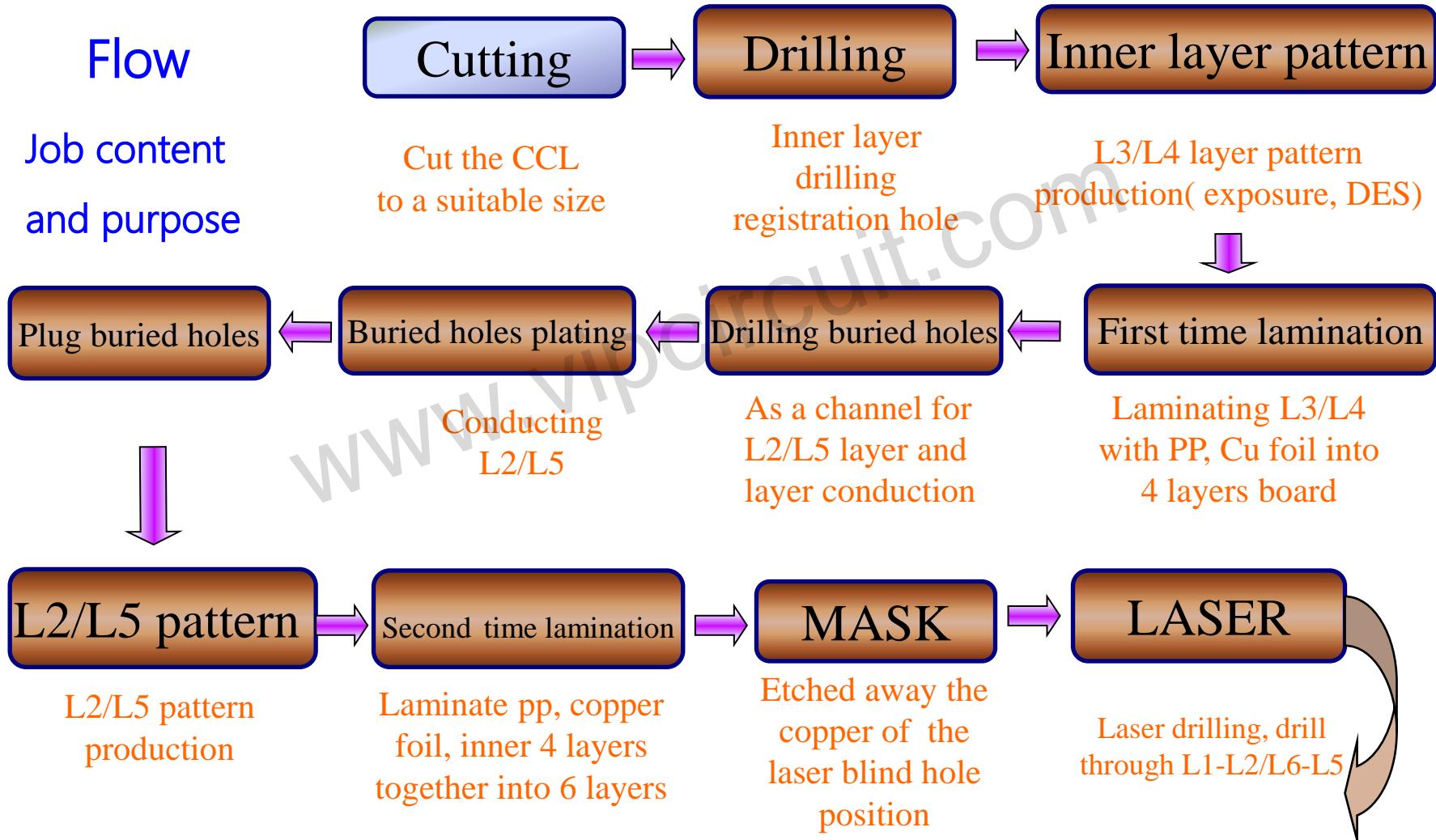
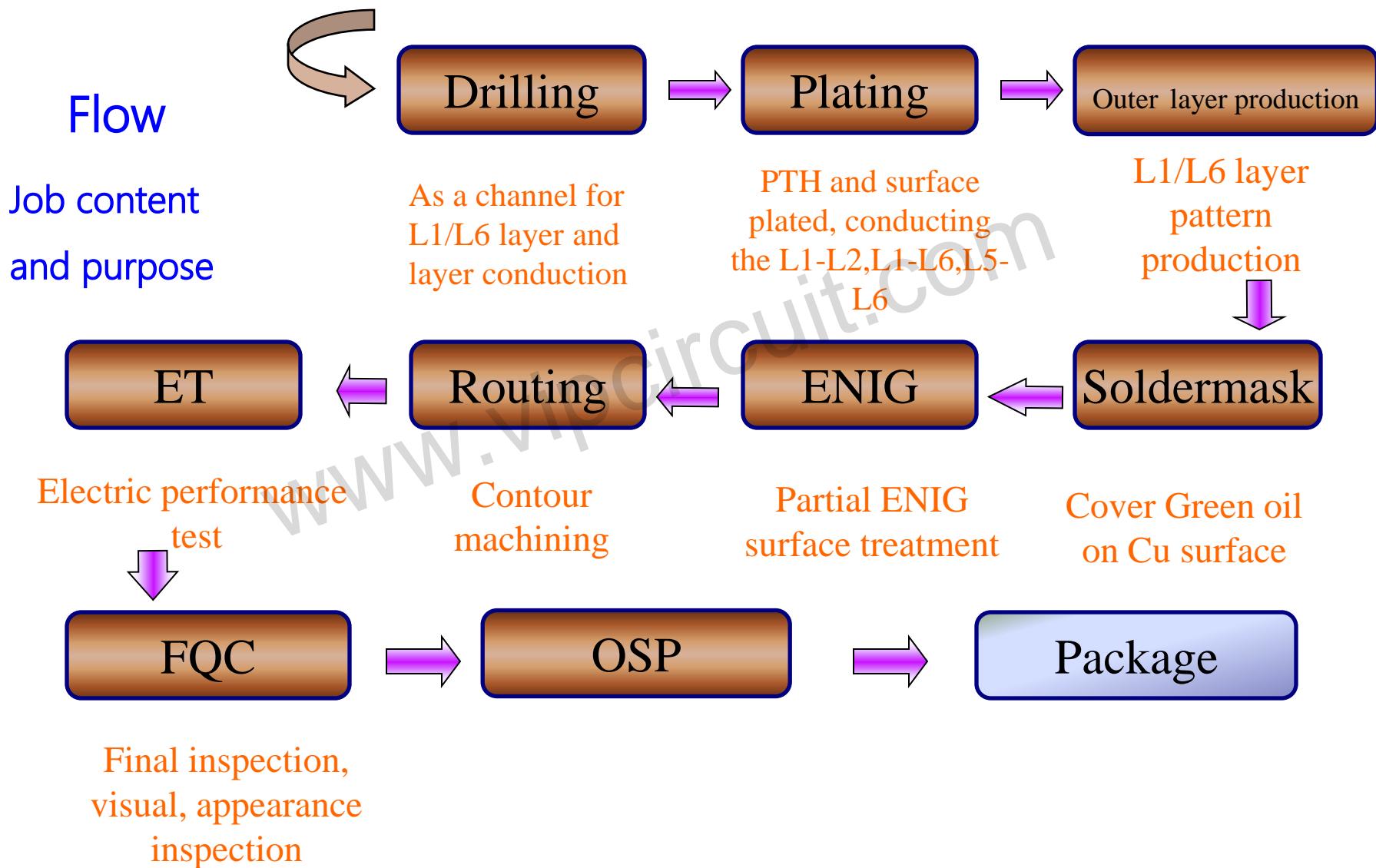


## \*\*H.D.I(1+4+1) (OSP+ENIG)The process flow diagram



# \*\*H.D.I(1+4+1) (OSP+ENIG)The process flow diagram



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Raw material CCL

19 5:07 PM



Cutting machine

19 5:04 PM

After cutting

19

4:58 PM

# Mechanical Drilling



19 4:56 PM



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After Inner layer drilling

## Pretreatment



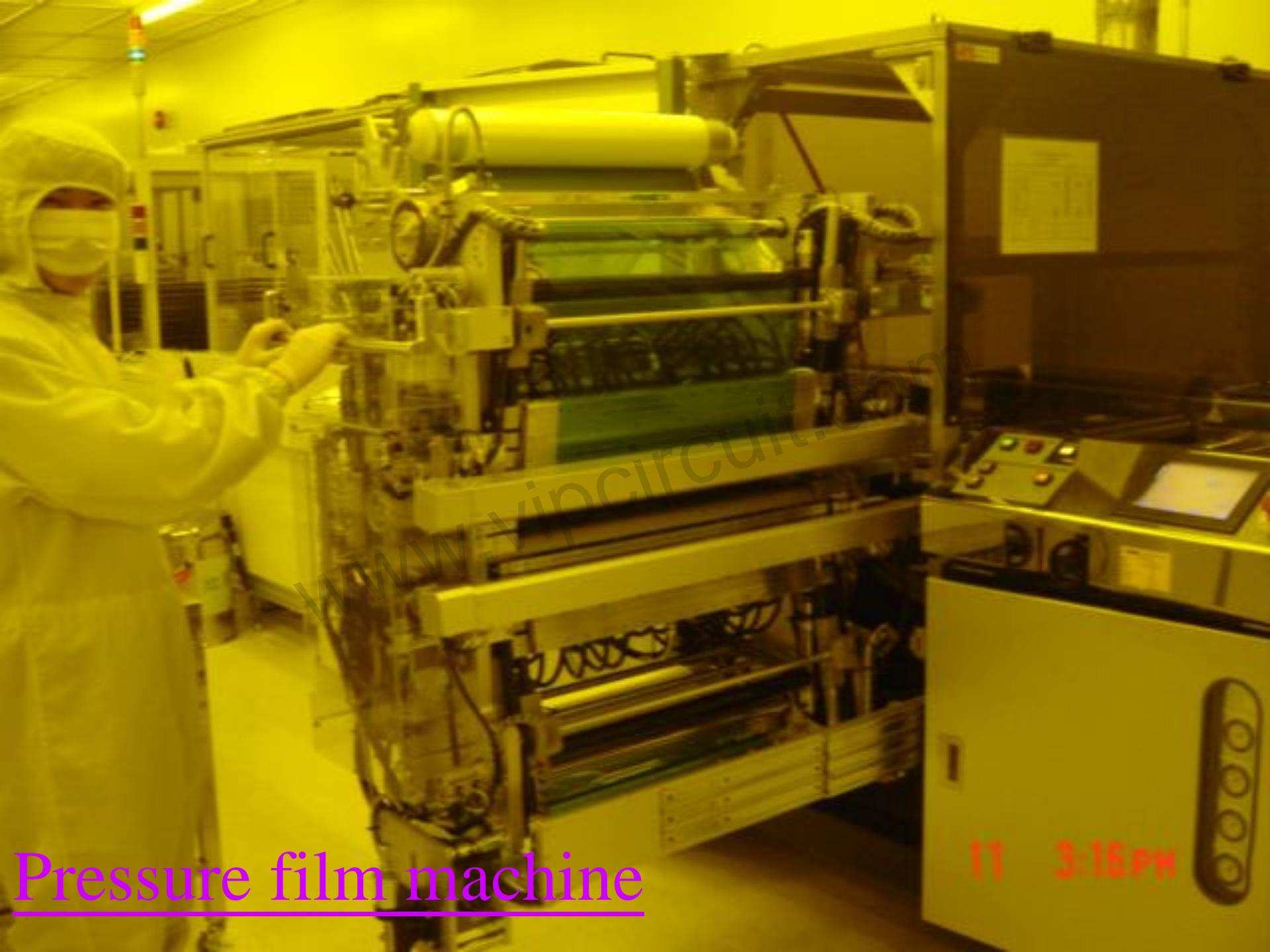
www.vipowcircuit.com

11 2:58 PM

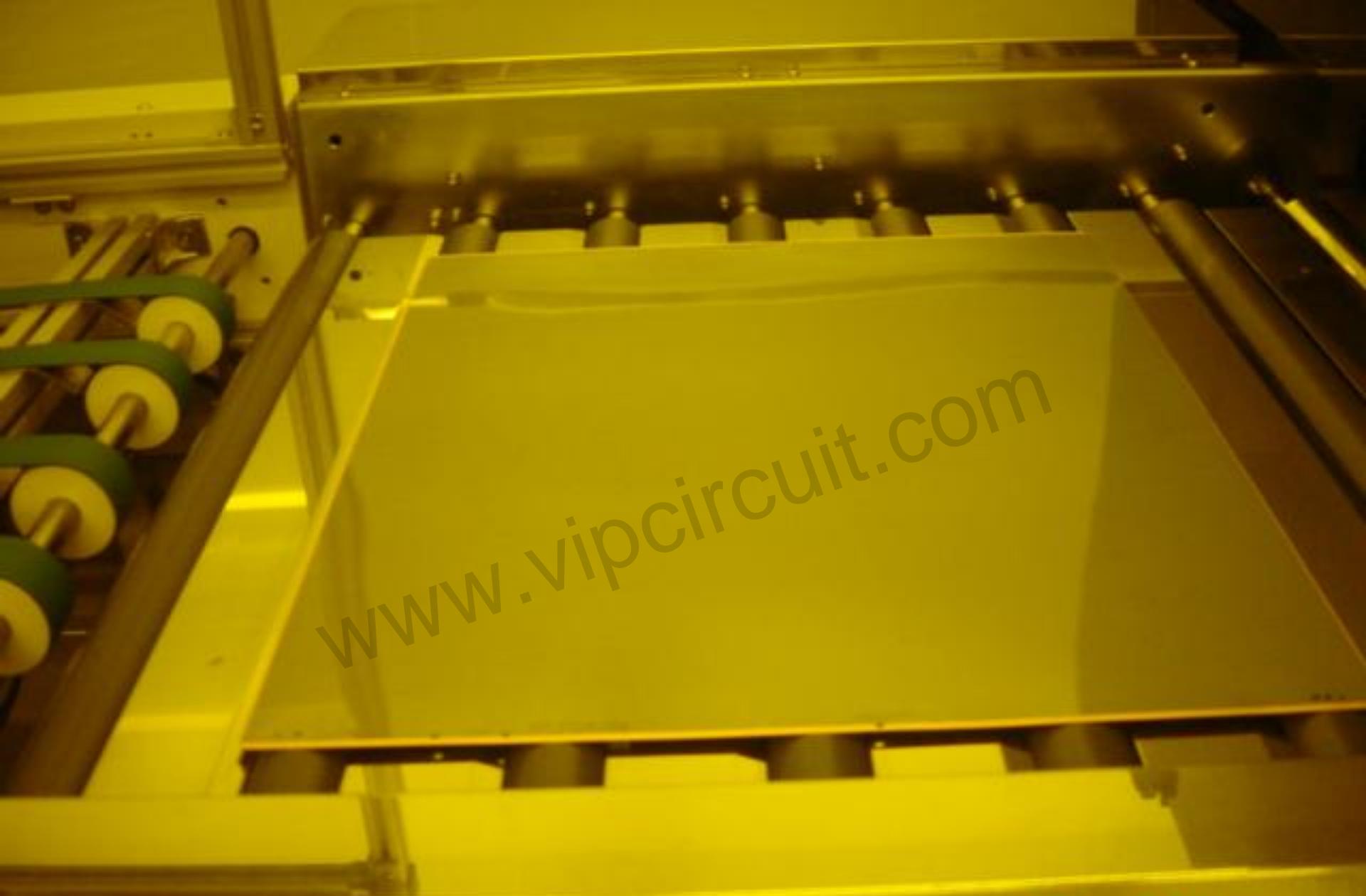
[www.vipcircuit.com](http://www.vipcircuit.com)

Before pressed film

11 3:13PM

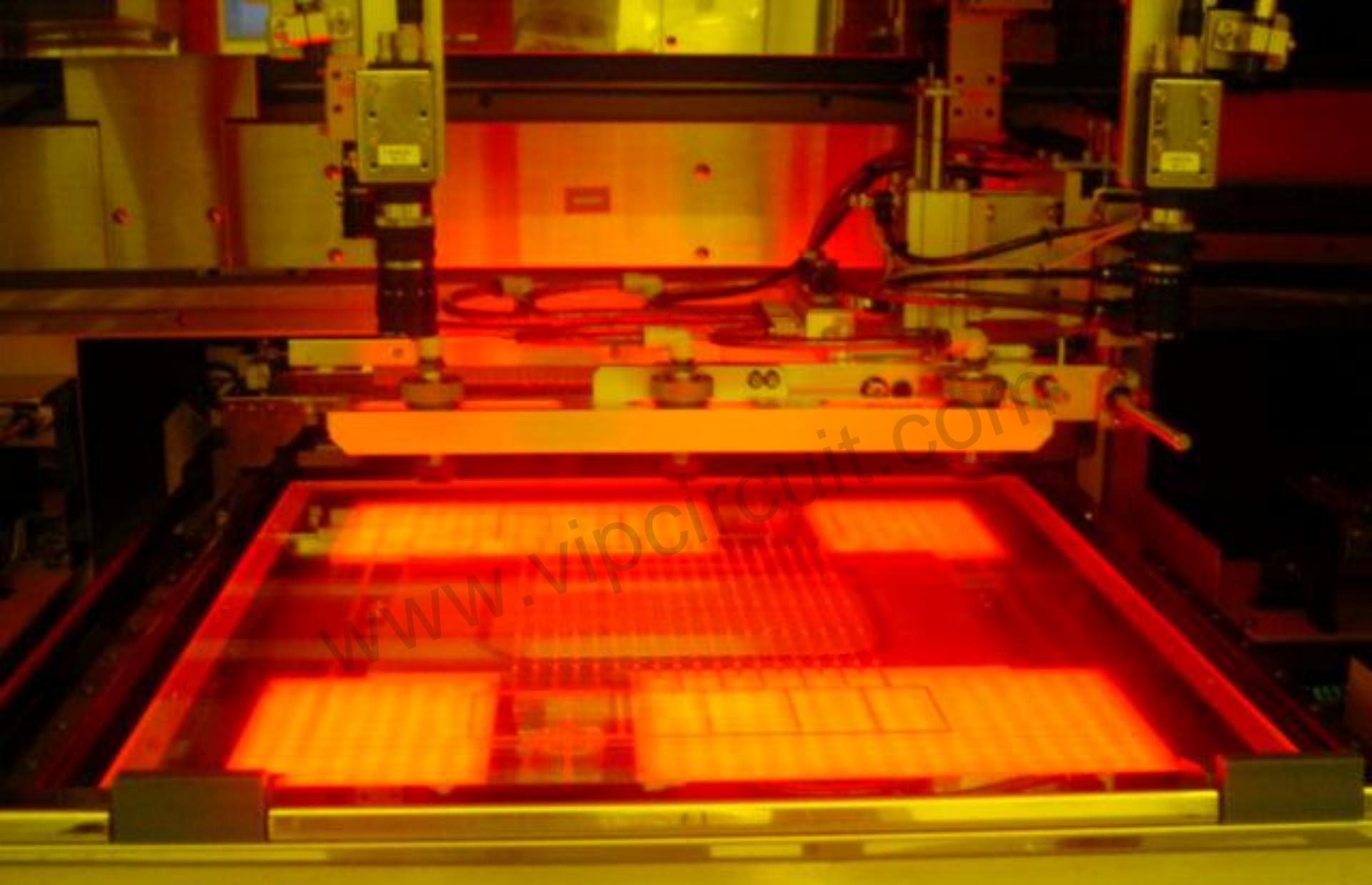


Pressure film machine



After pressed film

11 3:14PM



Automotive exposure machine

After exposure



After developing

11 3:09 PM



After etching

11 3:41PM



After stripping

11 3:03 PM

AOI





CVR repair machine

11 2:52PM

Wire repaired



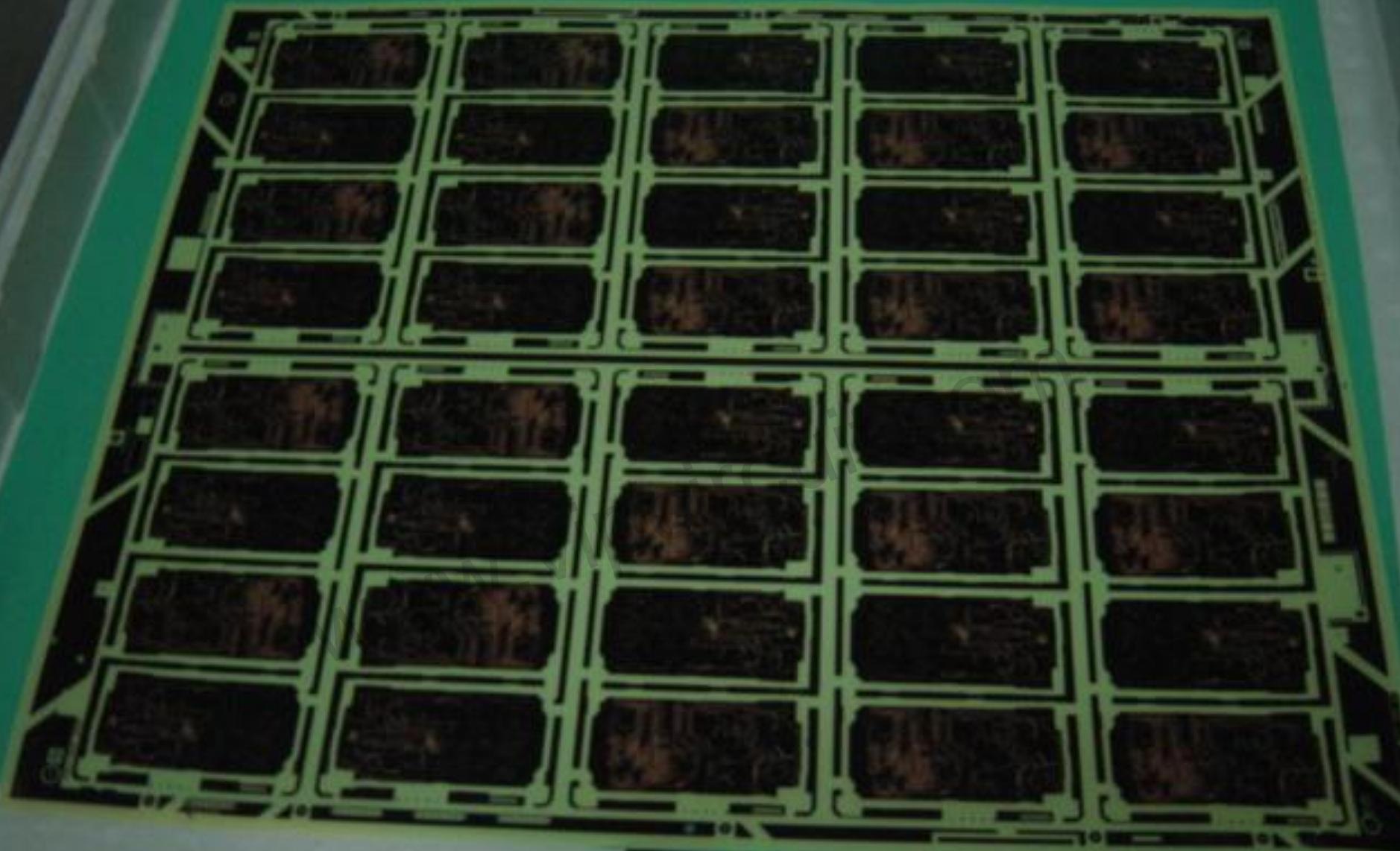
Before black oxide

11 3:03 PM

Black Oxide Line

19 5:02 PM





After black oxide

11 3:59PM



P/P Cutting

11 3:50 PM

11 3:57 PM

# Bonding



# Lamination





After lamination

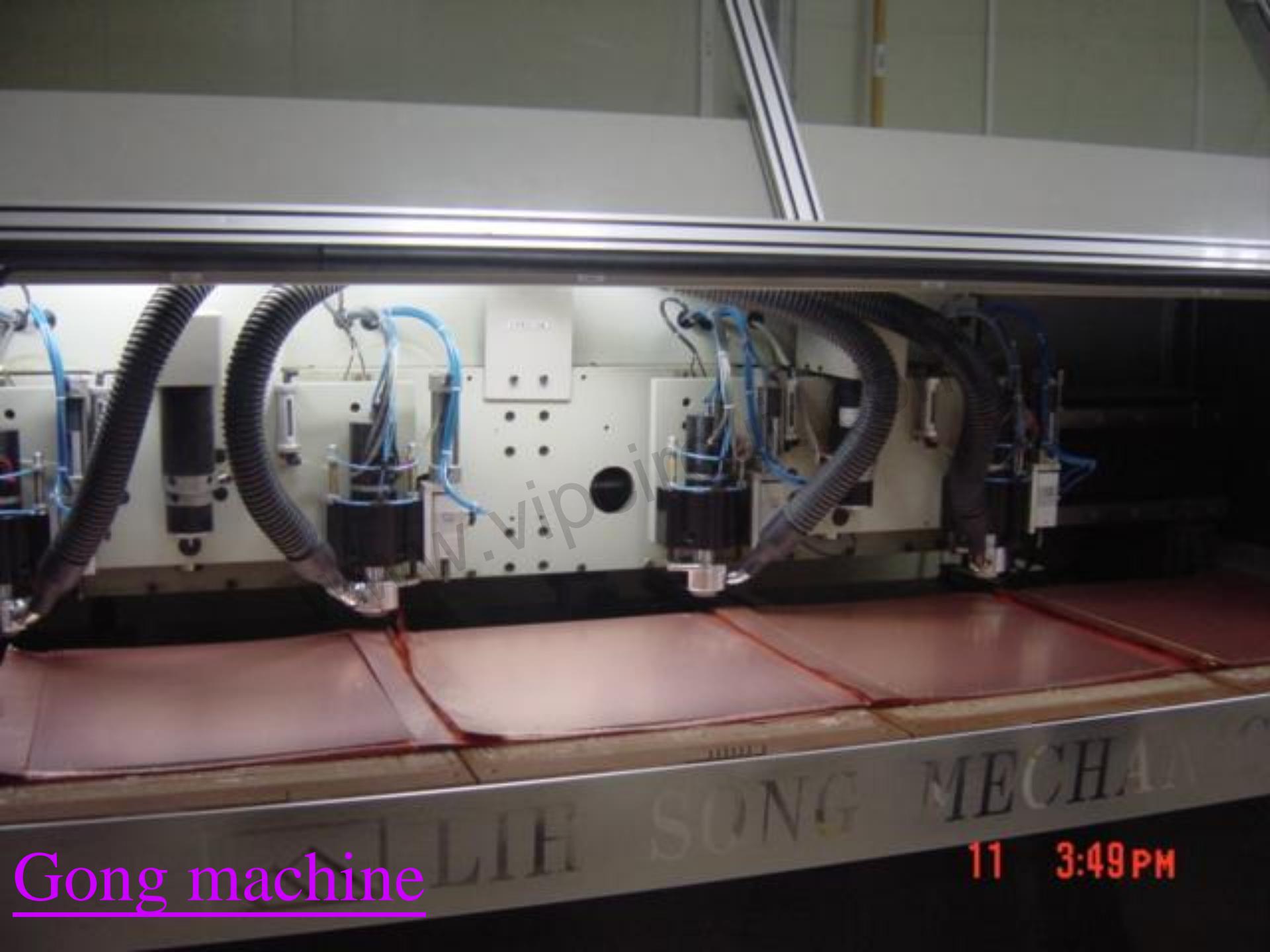
# Cutting





X-RAY Drilling target

11 3:46PM



Gong machine

11 3:49 PM



Edge grinding machine

# Drilling



HOLE-CHECK



19 5:00 PM



Horizontal plating line

11 3:28PM

www.vipcircuit.com

After plating

11 3:36 PM



Before plugging hole

19 4:20 PM

## Plug hole machine



After plugging

19 4:29 PM

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Roaster



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19 4:21 PM

www.vipcircuit.com

After MASK

19 3:57 PM

Laser drilling machine



PLASMA

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19 4.02PM



Carbide removal

19

4:08 PM

BLASER AOI



19 4:07 PM

After removal

19 4:59 PM



Pretreatment before soldermask



Soldermask ink spraying

# Exposure



After exposure





Developing line

19

4:08 PM



After developing

CP-720A



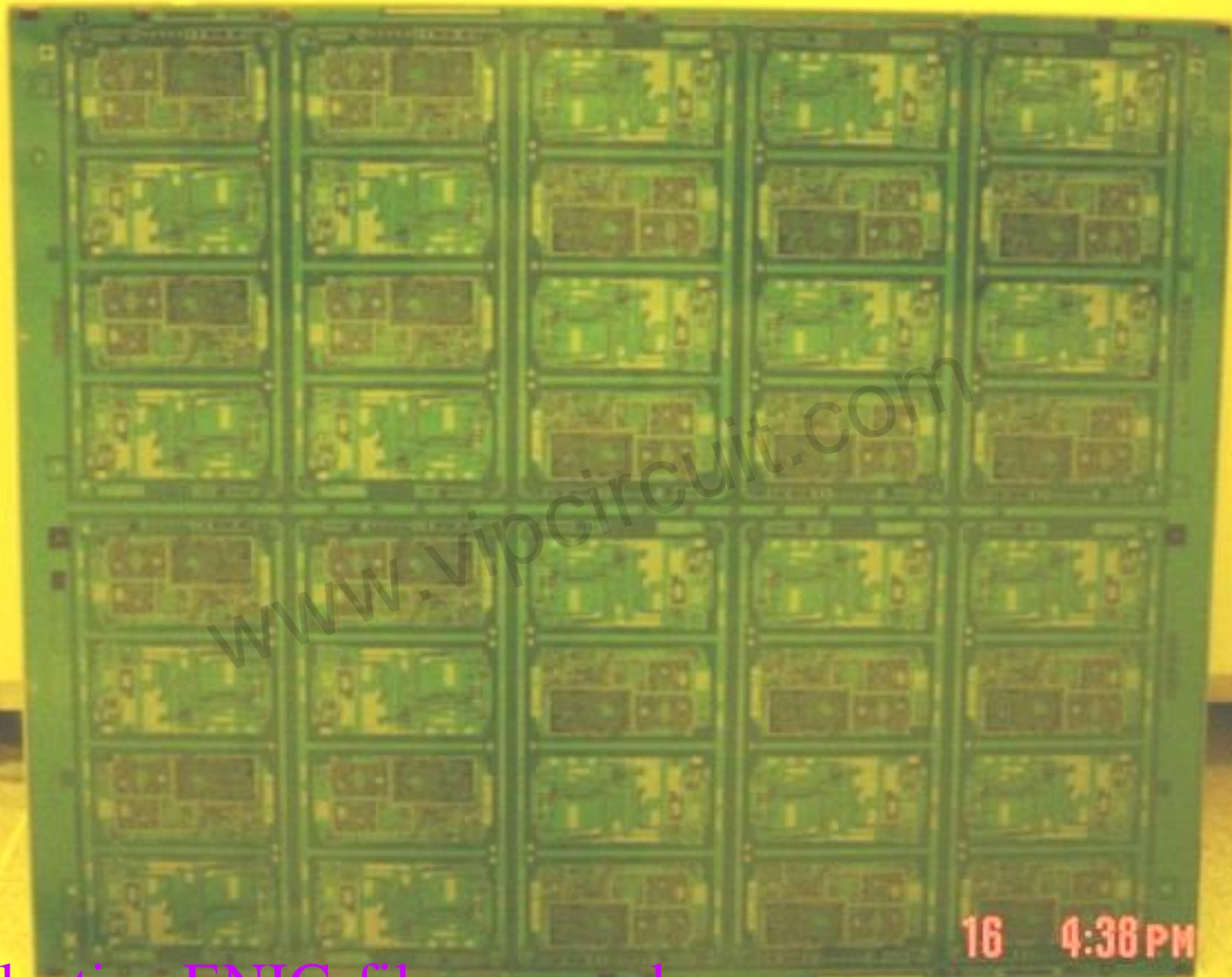
Baking machine

www.vipcircuit.com

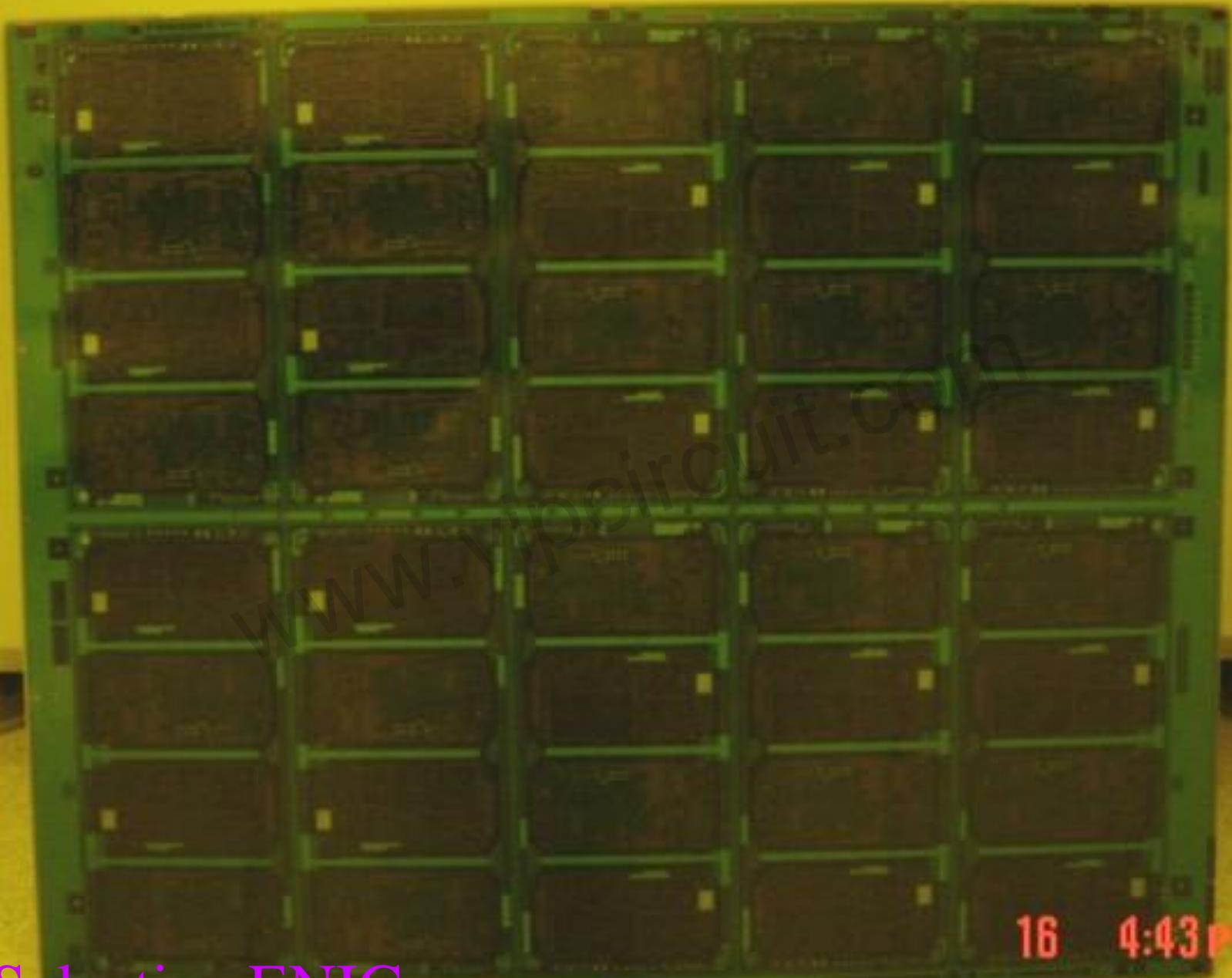
19 4:15 PM



Selective ENIG-pretreatment

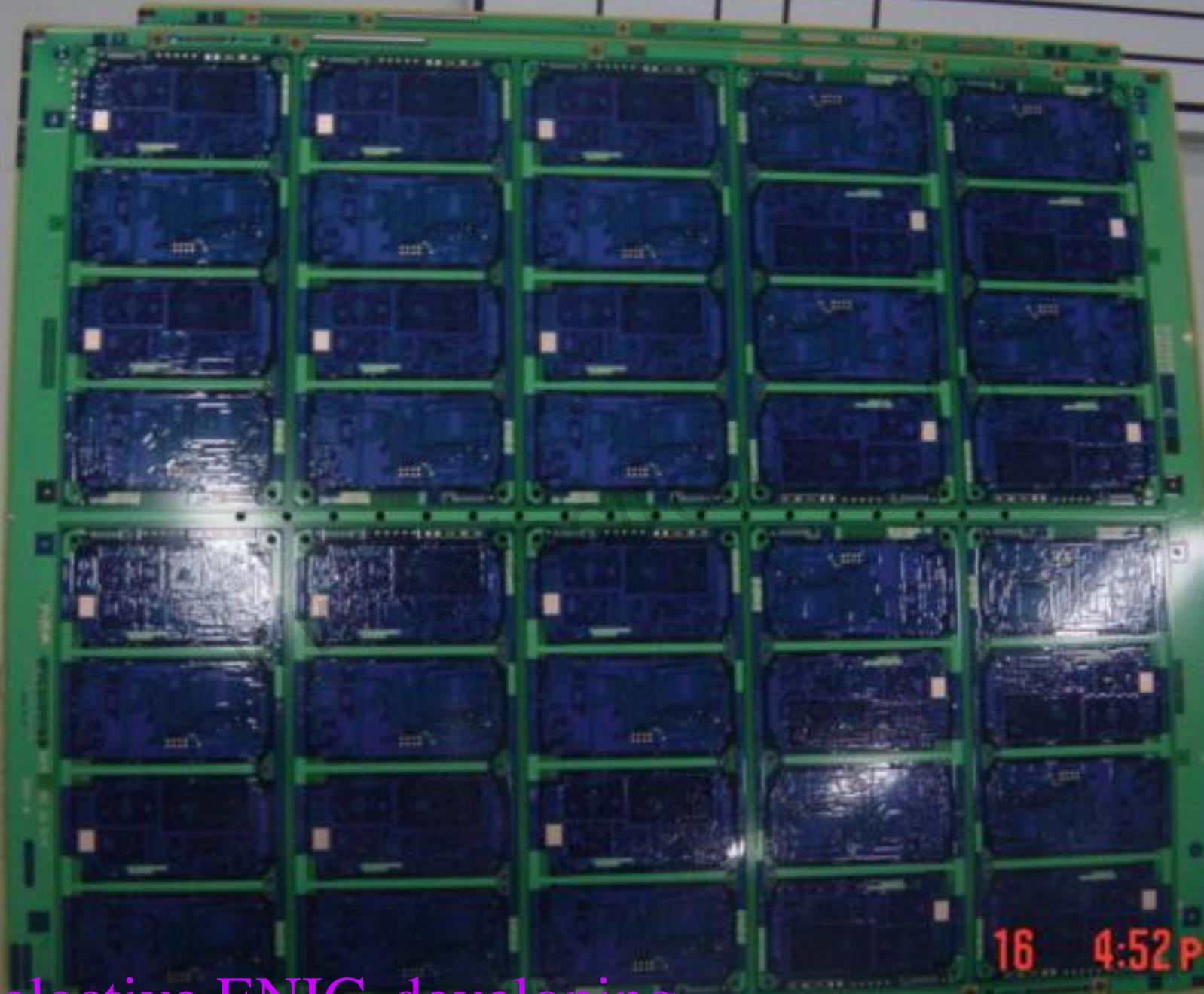


Selective ENIG-film pressed



Selective ENIG-exposure

16 4:43 PM



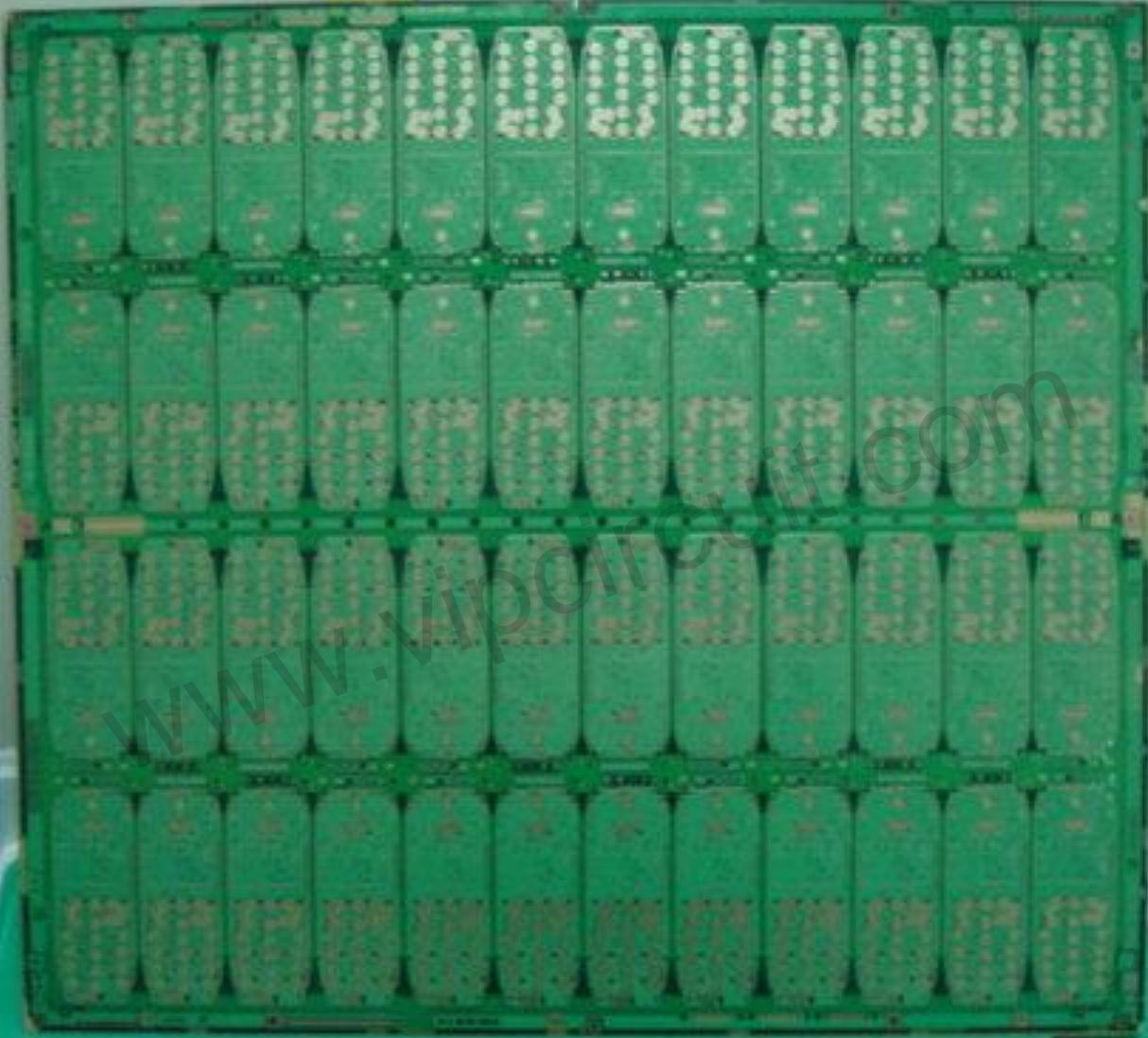
Selective ENIG-developing

16 4:52 PM

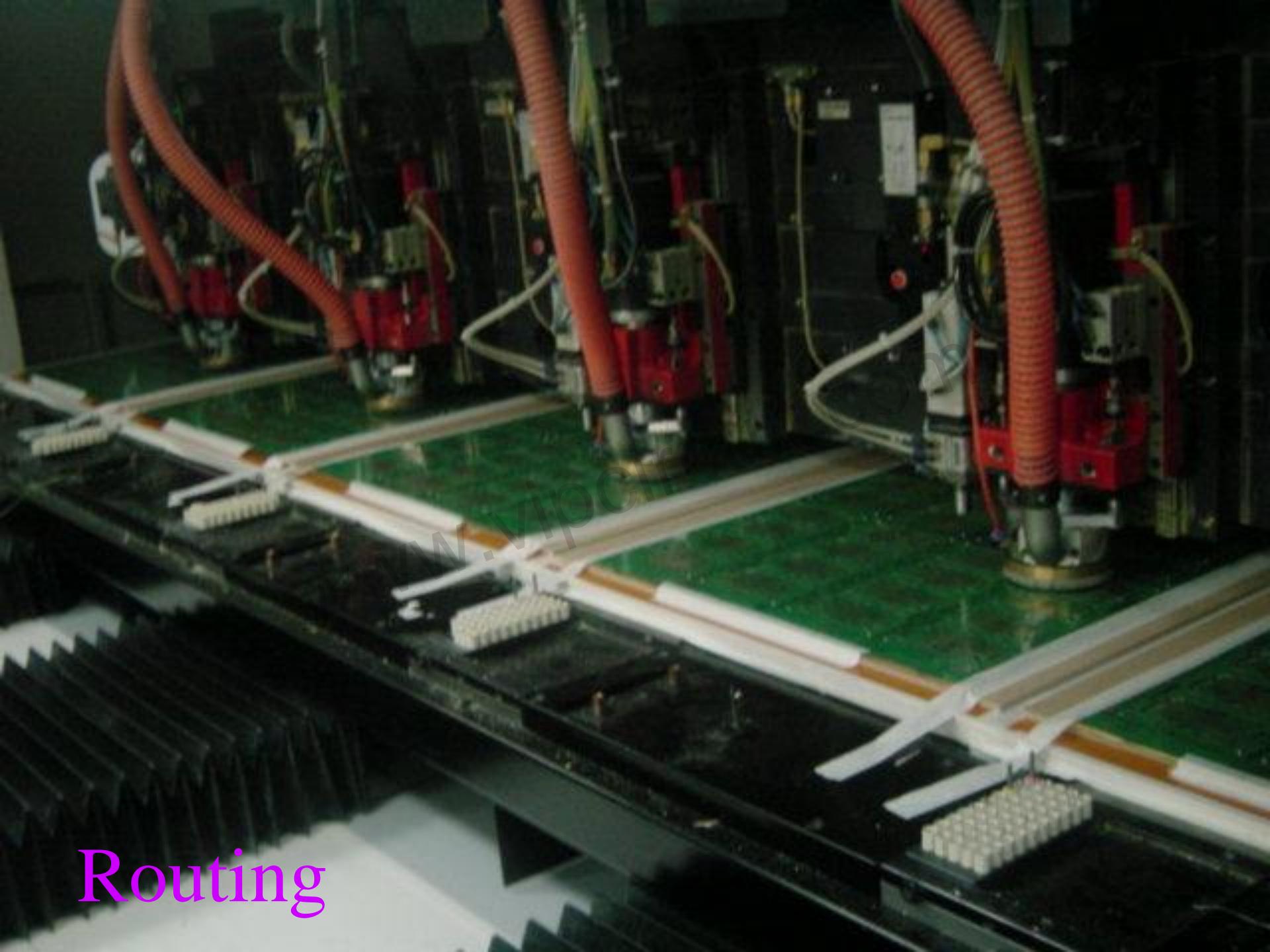
A blurred photograph showing a long assembly line in a factory. On the left, there's a vertical rack filled with various electronic components and tools. The main focus is a long, horizontal conveyor belt or assembly line that stretches across the frame. Several printed circuit boards (PCBs) are visible, some with blue protective coatings. The background is filled with industrial equipment, pipes, and overhead lighting. A watermark with the URL "www.vipcircuit.com" is overlaid diagonally across the center of the image.

www.vipcircuit.com

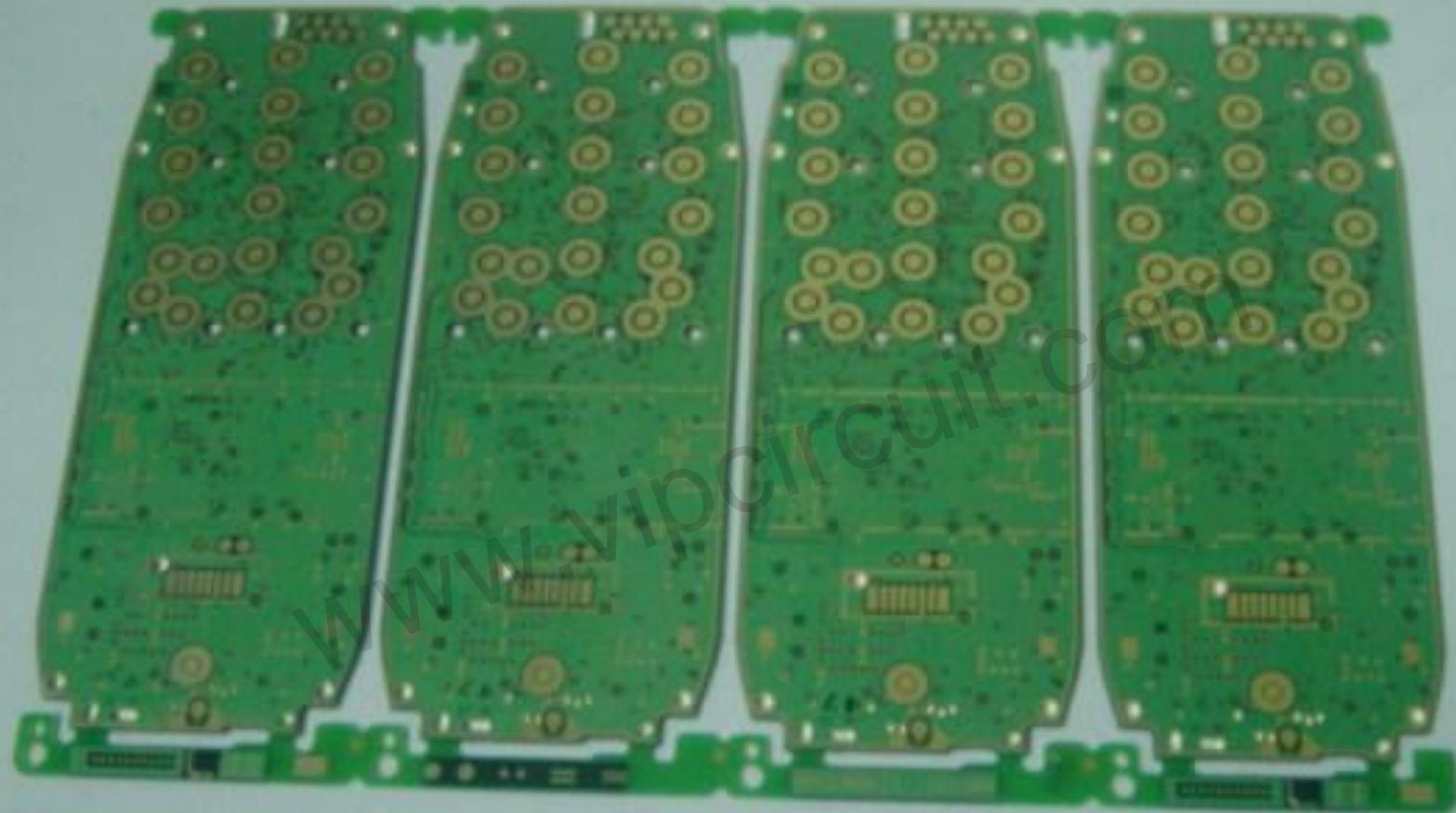
Selective ENIG-ENIG



After stripping



# Routing



After routing

vipcircuit.com

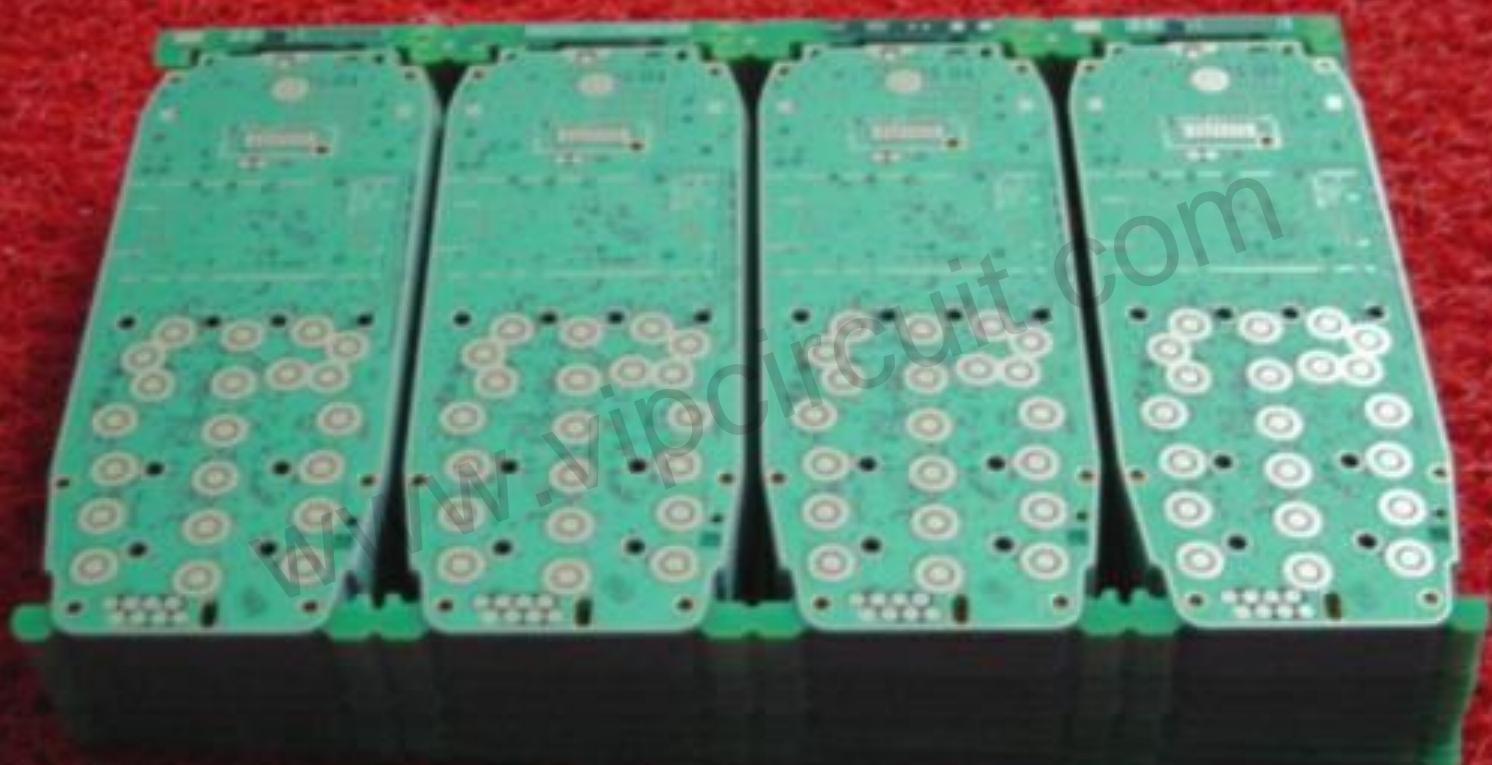
ET test

FQC

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OSP





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Package