

FOXSIGN TECHNOLOGY

Deflash Process

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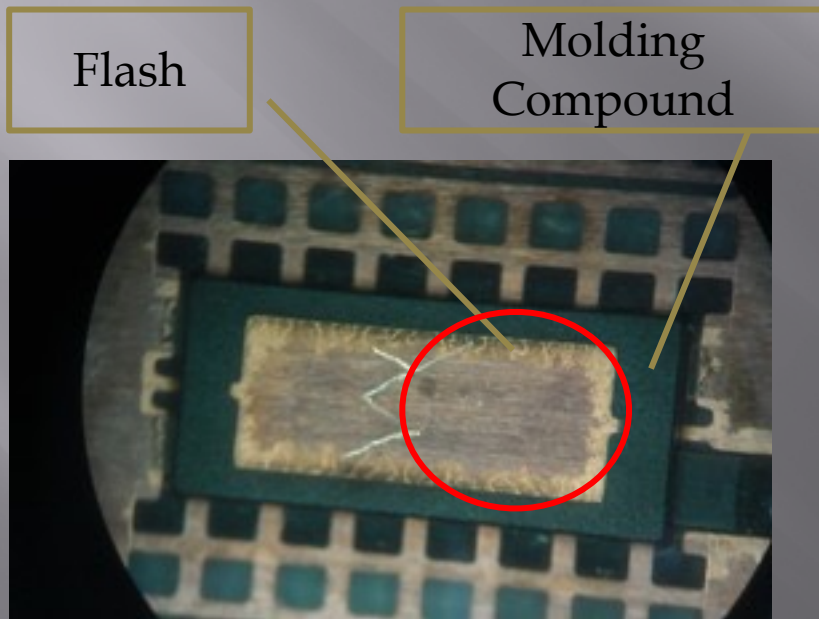
About FoxSign

FoxSign Technology, Corp. was established in 1992 and has become a leading company focusing on design & manufacturing IC ASSY Deflash process equipments.

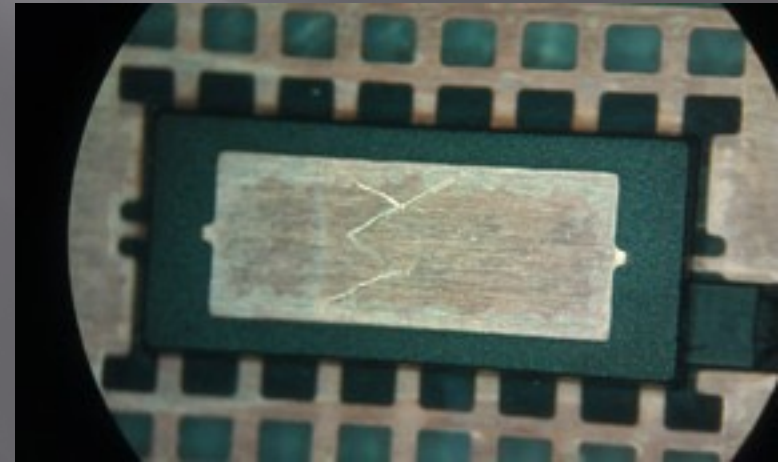
We were now the top provider for Electrolysis, Chemical Dipping, High Pressure Washer & Wet Blast Slurry Deflash machine with unique process capabilities for IC Assy Deflash in the world.

What is “Deflash”

The so-called “Deflash” is a part of IC assembly backend process, after “Molding” then before “Plating” to remove the “Mold Flash” with purpose to protect the plating quality.

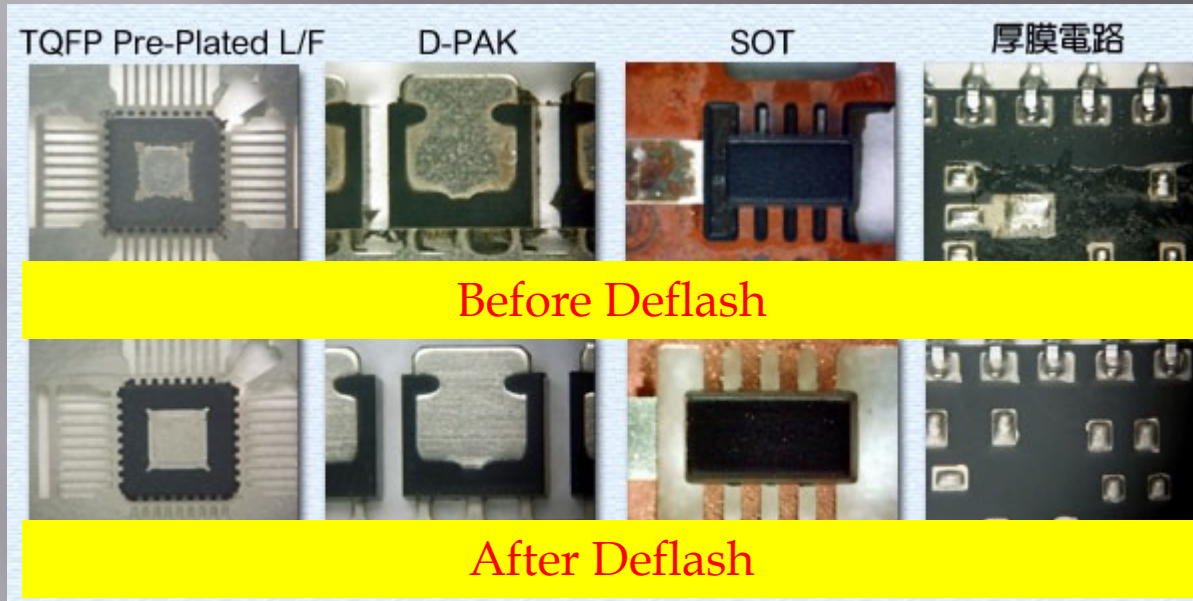


Before Deflash



After Deflash

What Is Deflash



Difference Between Poor/Good Deflash Quality After Plating :



Deflash Service

Our service covered 4 main Deflash process :

1. Electrolysis Deflash---ED
2. Chemical Deflash-----CD
3. Water Jet Deflash-----WJ
4. Wet Blasting Deflash-WB

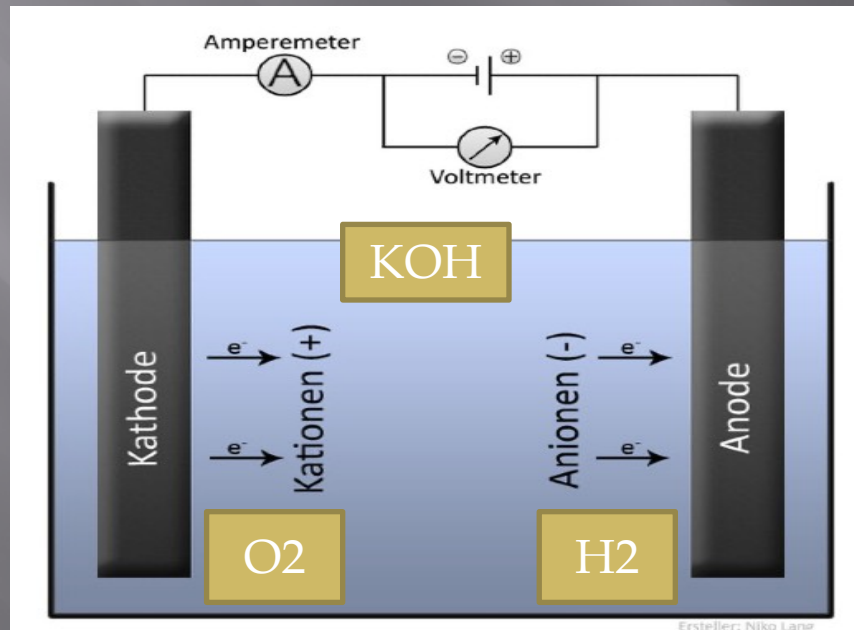
The operating principle of the process are described below:

Operating Principle

Electrolysis Deflash-ED

When “Electrolyte” penetrate the gap between the flash and L/F, “Flash” will be detached from L/F surface by the generated “Bubbles” .

ED is the frontend process of WJ or WB.

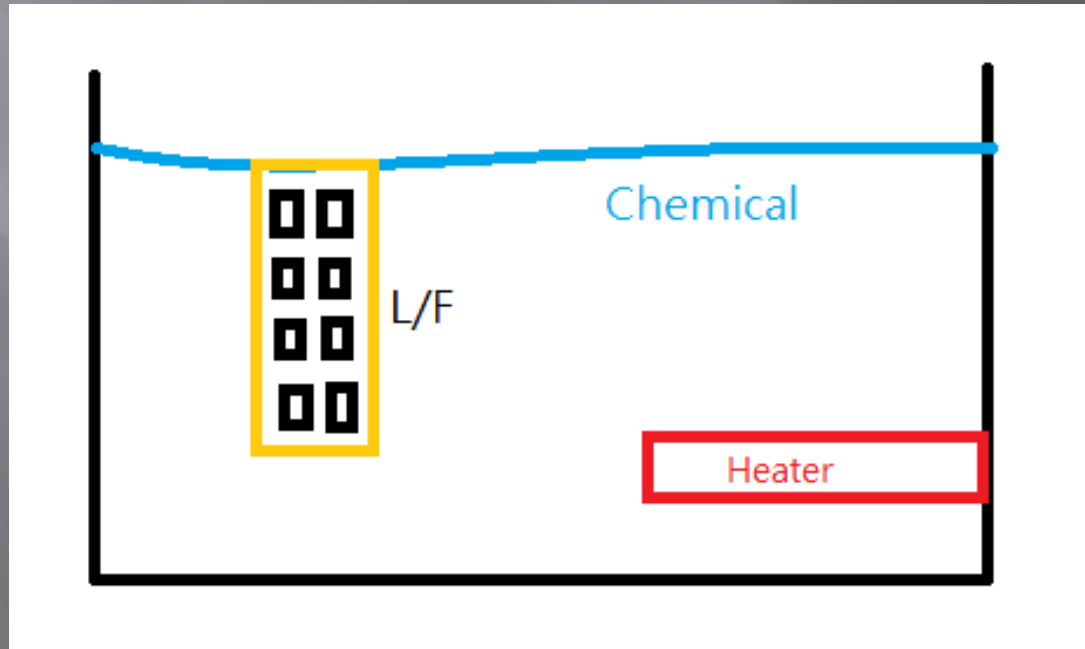


Operating Principle

Chemical Deflash-CD

Immerse L/F in a special chemical solution, Through controlled temperature and time, flash will embrittlement or softening due to chemical effect.

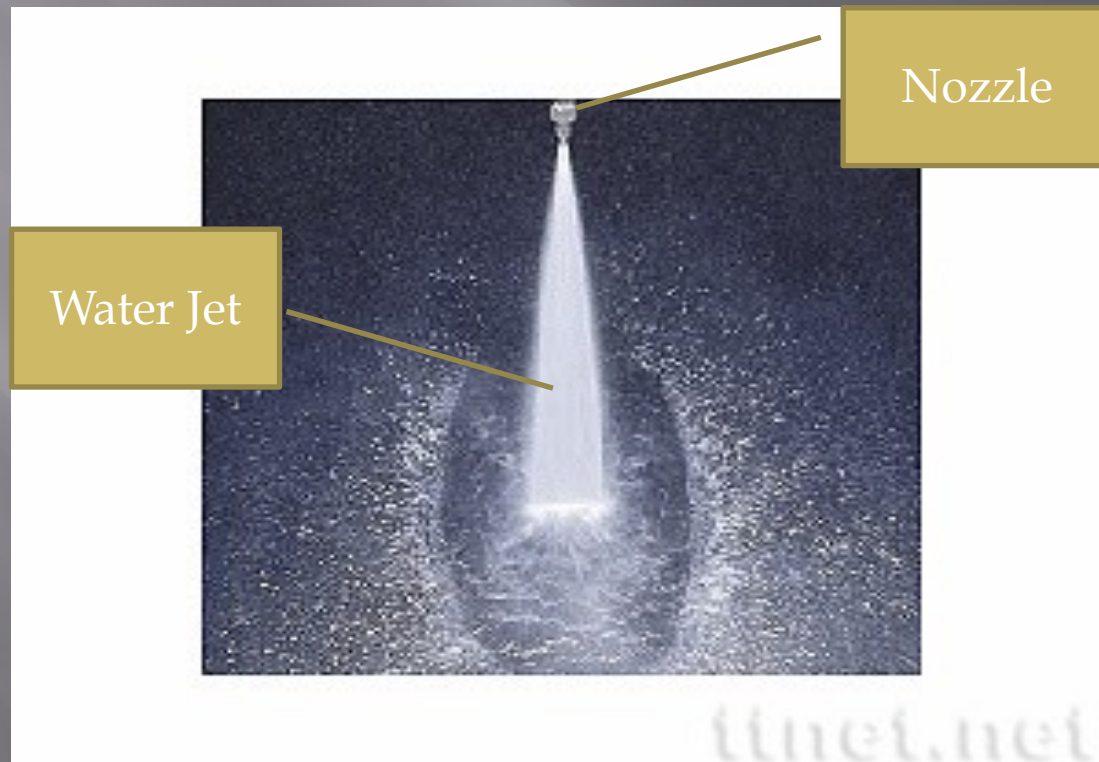
CD is the frontend process of WJ or WB.



Operating Principle

Water Jet Deflash-WJ

To clean the L/F surface through Fan-shaped high-pressure water jet

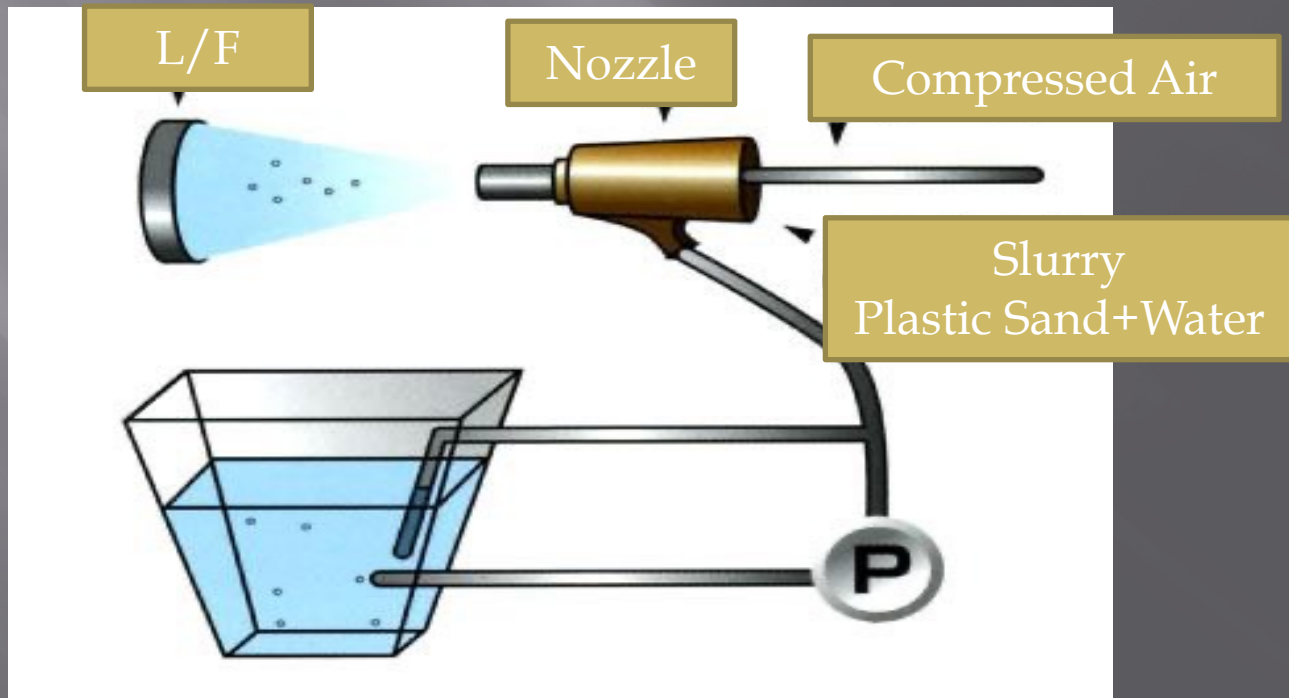


Operating Principle

Wet Blasting Deflash-WB

Blast clean the L/F surface through plastic sand slurry motivated by compressed air .

Wet Blasting can prevent the generation of static electricity !!!



Product Line & Advantage

FoxSign fully understands that our success is attributable to our customers and the society to which we all belong. As a global citizen, FoxSign is determined to make significant contributions to society various accessible process equipments through the experiences and technical abilities we already had.

Please refer to following pages as our product line:

Wet Blasting Deflash System



Model: SD-240

To prevent the generation of static electricity !!!

Fully automatic operation is an available option

Description : Universal model, can be adapted to various sizes of L/F according to difference production parameter .

Advantage : Capacity 30% higher and blast media consumption 50% lower then competitor's rival model.

Inline ED+WB Deflash System



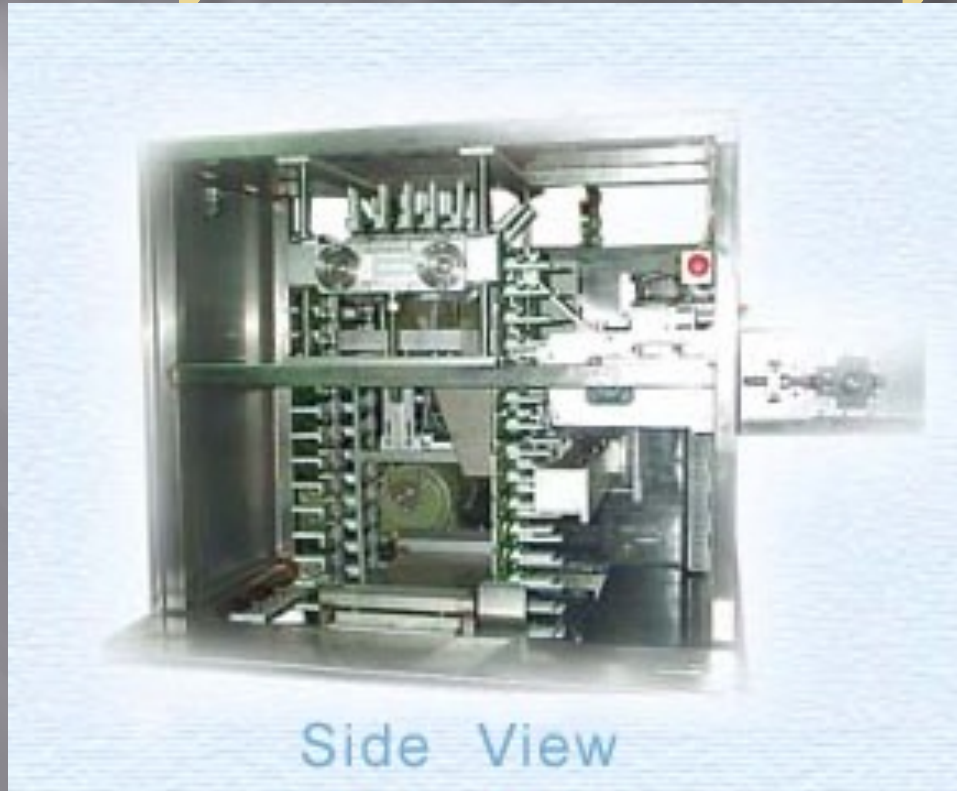
Model: ESD-240

Unique design with highly reliability !!!

Description : Universal model, can be adapted to various sizes of L/F according to difference production parameter .

Advantage : Unique design for the most difficult to deal with L/F.

Electrolysis Deflash System



Model: ED-82

Fully automatic operation is an available option

Description : Universal model, can be adapted to various sizes of L/F according according to difference production parameter .

Advantage : Volume 40% smaller with same capacity then competitor's rival model.

Chemical Dipping Deflash System



Model: JollyBee CD-800i

Description : Universal model, can be adapted to various sizes of L/F according according to difference production parameter .

Water Jet Deflash System



Model: WD-X

Fully automatic operation is an available option

Description : Universal model, can be adapted to various sizes of L/F according according to difference production parameter .

Inline CD+WJ Deflash System



Model: ACD-1300e

Description : Universal model, can be adapted to various sizes of L/F according to difference production parameter .

Advantage : Capacity 85% higher and size 40% smaller then competitor's rival model.

Inline ED+WJ Deflash System



Model: EWJ-160

Description : Universal model, can be adapted to various sizes of L/F according to difference production parameter .

Advantage : 50% smaller with same capacity then competitor's rival model .

Vision

As a leading firm in the field of deflash machines in Taiwan, we are expecting to cooperate with the leaders in electronics, 3C, semi-conductors and computers in order to develop efficient labor-economizing and energy-saving products to allow our customers to earn higher profits. With the persistence in uninterrupted learning and advance in technique and service, perpetual management and continuous innovation, we hope to do something for local and foreign hi-tech and electronic industries in order to allow the industries to increase their competitiveness.

Developmental Direction at present and in the future: Flip Chip, Lead Frame and Wafer processes. We are hoping to research and develop all kinds of processes and demands jointly with all of you.

Road Map

- ▣ At present, we have been able to meet the needs of customers for Industry 4.0.
- ▣ In the next 3-5 years, we hope to move forward with customers and achieve the goal of Industry 5.0 together.

Our Customers



BANDL Interational-Blasting Media	Wet Blasting Deflash, Electrolysis Chemical LITEON
Semiconductor	Auto on-line Electrolysis Wet Blasting Deflash, Plastic Blast Media, Electrolysis Chemical
PanJit Semi-conductor	Auto on-line Electrolysis Wet Blasting Deflash, Wet Blasting Deflash, Plastic Blast Media, Electrolysis Chemical
Taiwan Seim-conductor	Wet Blasting Deflash
Advanced Semi-conductor Engineering	Auto on-line Electrolysis Wet Blasting Deflash, Plastic Blast Media, Electrolysis Chemical
Frontier Electronics	Wet Blasting Deflash, Plastic Blast Media
ShangHai KaiHong Electronics	Auto on-line Electrolysis Wet Blasting Deflash
Hosonic Electronic	Rotary Crystal Die Bonder
AnTen Technology	Wet Blasting Deflash, Water Jet Deflash, Circulatory Hook Plater, Plastic Blast Media
Chantek Electronic	Wet Blasting Deflash, Leadframe Counter
ChoungHsim Corp	Servo Down Set Press
Feedpool Technology	LED Die Shear Tester
International Semiconductor	IC Die Shear Tester, IC Wire Pull Tester
Siron Precision	IC Wire Pull Tester, Auto Leadframe Unloader
QualiBond Industries	Auto Plating Loader/Unloader
Compal Electronics	Multi-function Die Bonder, Plastic Blast Media
Meicer Semi-conductor	Wet Blasting Deflash, Electrolysis Chemical LITEON
GLW	Battery Seal Press
Producer Precision	Auto Connector Assembler
Berg Electronics	Wire Unloader, PC Base Probe Tester, Tooling
Taiwan Hi-Tech	Electrolysis Chemical
Shang-Lun	Wet Blasting Deflash, Plastic Blast Media
Hi-Sincerity	Auto on-line Electrolysis Wet Blasting Deflash, Plastic Blast Media
Lite on	Plastic Blast Media, circulate Electrolysis Wet Blasting Deflash, Electrolysis Chemical
GTM	Plastic Blast Media, Wet Blasting Deflash
Get-Team	Plastic Blast Media, Wet Blasting Deflash
Gemsh	Plastic Blast Media, circulate Electrolysis Wet Blasting Deflash, Electrolysis Chemical
Bandl	Plastic Blast Media, Wet Blasting Deflash

Thank You

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