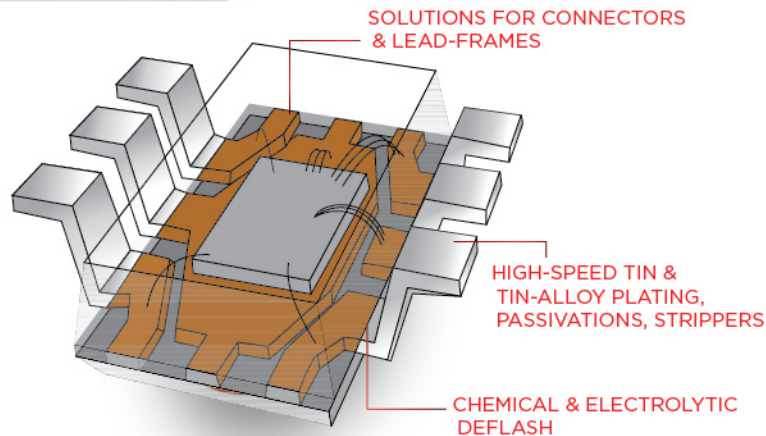


## **SOLUTIONS** FOR **IC PACKAGING**

For over six decades, Growel has been a pioneer in providing cutting-edge electroplating processes, setting industry standards since 1957.

Our expertise now extends to advanced solutions for IC packaging, including Deflash & Plating Chemistries, automated Electro Deflash and Electroplating Lines, and Water Treatment Systems



## DEFLASH, TIN & TIN ALLOYS, AND ANCILLARIES

Growel offers comprehensive solutions for **deflash, pretreatment, plating processes (tin, tin alloy, silver, etc.), passivation, and strippers (tin/silver, belt).**

- Advanced chemical and electro deflash chemistries to soften epoxy resin on lead-frames
- High-speed, MSA-based tin & tin alloy plating; ensures pure, matte deposits with minimal carbon and excellent reflow
- Non-foaming electrolytic pretreatment; removes oxides efficiently
- Chrome-free passivation to protect tin-plated components from deterioration, maintaining solderability and low contact resistance
- Effective tin/tin alloy stripper for copper surfaces

Our technologies ensure superior component performance and longevity during production and storage.

## ELECTRO PLATING LINE (CDF/EDF/EPL)

Growel, in partnership with OTMK GmbH, manufactures and supplies high speed Electro Deflash Lines (CDF/EDF/EPL) designed for precision lead-frame manufacturing. These systems are engineered to deliver precise, high-speed processing with optimal coating performance.

### FEATURES:

- High-speed plating line for moulded lead-frames with uniform plating
- Frames up to 100 mm by 320 mm can be plated at 2400 strips per hour
- Excellent electro deflash
- Stack/slotted magazine system with auto-loading/unloading
- High pressure rinse up to 800 bar

### AUTOMATION:

- Precision quality control with SPC analysis
- Automatic troubleshooting system
- Coating thickness monitoring
- Seamless auto-loading & unloading
- Negligible change over time
- Optimal current distribution
- AI-powered automation

## About Growel

### India's trusted leader in metal finishing and surface treatment since 1957

We are pioneers in electroplating, paints, lubricants, surface treatment intermediates, and mission critical equipment, **including comprehensive water treatment solutions.** We partner with customers in diverse industries to provide comprehensive solutions backed by in-depth domain knowledge. Our R&D is recognised by the Indian Council of Science & Technology; our plants and processes are IMS certified.



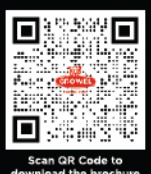
## Grauer & Weil (India) Limited

Regd. Office: Growel Corporate, Akurli Road, Kandivli (E), Mumbai 400 101, India

☎ 91 22 66993000 | 📠 91 8082 048 048 | ✉ enquiries@growel.com

www.growel.com

Chemicals | Engineering | Paints | Lubricants | Real Estate



Scan QR Code to download the brochure

GC/IC PACKAGING/0824/25