



CEO Message

Goal

Refresh

Effort

Early

No-No

Together

Slogan

03 CEO Message

04 Company Overview

06 Company History

08 R&D Center

10 Technical service team

12 Business

01



Jin Jeong-Bok

CEO Message | 致词

It is my pleasure to introduce NR G&C.

Since its establishment in 1997, NR G&C has vigorously invested in research and development in the areas of PCB (printed circuit board), semi-conductors to develop high-quality, high-value chemicals. Our company has partnership with global leading corporations both at home and abroad such as Samsung Electronics and LG Innotek, and has great expertise in high-precision chemicals for PCB, LCD, TSP and semi-conductors.

In 2005, NR G&C established a local investment company in Jiangsu (Suzhou), China, and won great reputation and trust from Chinese customers for our outstanding technology, contributing to the national economy through the export.

In the coming years, NR G&C will make continual efforts to grow through new business opportunities and activities in overseas markets. We will endeavor to be a reliable, leading company in the industry that fulfills our social responsibilities and obligations.

We give you our words that NR G&C will be a customer-oriented business that offers best quality products for customer value and satisfaction.

Thank you for all your support.

大家好!

NR G&C自1997年成立以来一直致力于PCB(印刷电路板)和半导体领域高质、高附加值化学药品的研发和生产。

目前NR G&C已成为CB, LCD, TSP, 半导体等超精密电子化学药品专业厂商, 主要客户包括三星电机, LG Innotek等国内外知名企业。

2005年在中国江苏省苏州市成立中国分公司, 以优异的技术性能获得了中国用户的高度评价, 并且为扩大出口, 促进国家的经济发展做出了积极贡献。

今后我们将内外兼顾, 在韩国国内探索新的市场机会的同时积极开拓国际市场, 实现可持续发展, 并切实履行社会责任, 为成为受人尊重和爱戴的企业而不懈努力。

NR G&C将始终站在客户的角度, 以最优的产品提升客户满意度、实现客户价值最大化。

谢谢!



Company Overview | 公司概覽

As the innovation creator of basic chemistry, this is the pillar of high-precision fine patterns, NR G&C offers in parts of semi-conductor and PCB.

Green Chem Leader

Korea's surface treatment technology was hardly local and local chemistry was virtually non-existent in parts of semi-conductor and PCB. NR G&C armed with young organization, young leadership and flexible mindset broke away from overriding dependence on trade, and instead an established in-house system for technological advancement and production, which enabled it to enjoy over 80% market share in PCB surface treatment agents. Today, it holds more than 90 customers such as Daeduck Electronics, Simmtech and is a contractor to Samsung Electro-Mechanics and LG Innotek. Its export destinations include the Philippines and China, in which NR G&C runs local manufacturing plants and sales offices equal to Korea, and serves as a partner to many local businesses exploring overseas business.

Best renovation

R&D: Marketing = 1: 1
NR G&C's success in near complete localization of agents (99%) via its in-house technology was enabled by bold and innovative R&D investment into Korea's surface treatment technology and strong belief in localizing PCB surface treatment agents. At present, NR G&C's in-house lab, which has R&D manpower that is as many as its marketing personnel and invests over 10% of sales into research, performs various sample tests under the same environment as that of the domestic line. In-house operation and thorough quality control without OEM from technological advances to delivery to customers allows NR G&C to get a step ahead in delivery at the shortest period of time and uppermost customer satisfaction.

Happy together!!!

A company that shares happiness with customers, employees and the local community By recruiting young talent, NR G&C creates a unique and a young culture. The company also commits a considerable chunk of sales, which have been on the rise driven by higher customer satisfaction, to fringe benefits to employees and R&D such as employees' cafeteria, fitness center, training expenses, career development expenses and health promotion expenses for employees and their families. NR G&C envisions a healthy and sound business philosophy in the belief that employees' happiness, both physical and mental, is critical to a healthy community. NR G&C is a solid contributor to the local community as a supporter to needy neighbors.

NR G&C 是半导体及PCB领域的超精密 FINE PATTERN 和高密度 产品基石的基础化学领域的革新创业者。

Green Chem Leader

创立当时,国内半导体及PCB产业的表面处理技术大部分都是依靠海外的,只不过是开始阶段。从年轻的组织和年轻的领导开始,拥有创新思考的 NR G&C 是不仅仅是依靠贸易,而是自身技术开发及建设生产system,占领PCB 表面处理药品领域的80%以上,目前是三星电机, LG Innotek 的协力单位,大德电子,信泰电子外 拥有90多个客户和出口菲律宾,中国等地。现在在中国设立跟韩国总部同等的制造工厂和营业所,担任国内企业开闢中国市场的协助作用。

Best renovation

NR G&C是在韩国的表面处理技术化学技术上,实施果断的发展创新科技的R&D 投资
国内PCB的表面处理药品要国产化的旗帜下,现在有99%的药水已经成功的用我们的技术国产化了。目前,运营自身的技术研究所同时现有的LINE上实施各种药水性能测试。每年销售的 10%投资在研究所,还有研发人数和营销的人数几乎是相同的程度有很多研究人员。不取代加工,通过严格管理品质 实现最短时间内交货和让客户最满意。

Happy together!!!

客户,职工,公司最幸福的公司
NR G&C 是通过完美的雇佣青年人才,形成NR G&C 独有的文化,通过满足顾客,销售上升和销售的大部分都投资在研究所和职员福利上。
运营职工CAFE,运营体育设施,教育费,支援自身发展费,此外,还支援不仅仅是自己而亲人的健康增加费。追求自己的身心幸福,最终构成健康的社会,健全的管理理念。
而且帮助社会上不利的人实现健康的社会做出贡献。



03

Company History | 公司歷史記錄

- | | |
|---|--|
| <p>1997 Established Naret Technos (trading business)</p> <p>2001 Acquired manufacturing license
Relocated its plant from Ilsan to Suwon</p> <p>2002 Designated as IBK family company
Developed D/F exclusive stripping solution series
Developed D/F exclusive equipment cleanser
Developed Soft Etchant SE Series</p> <p>2003 Acquired ISO 9002 certificate
Won the model taxpayer award from NTS
Developed stripping additives</p> <p>2004 Commenced exports to the Philippines (DDPI) by Daeduk Electronics
Awarded as honor contractor by LG Electronics</p> <p>2005 Established China office (Soju, Jiangsu Province, China)
Developed Half Etching Series
Acquired ISO 14001 environmental certificate</p> <p>2006 Developed Soft Etching MET Series</p> <p>2007 Developed SAP Etchant Series
Developed Btix-100, an anti-foaming agent</p> <p>2008 Registered at INNO BIZ by SMBA</p> <p>2009 Won model taxpayer award from NTS for the second time</p> <p>2010 Opened R&D center
Started operation of NR G&C Logistics Center
Developed amine type D/F stripping solution series
PSR exclusive equipment cleanser</p> <p>2011 Received 3 million USD Export Tower Award
Patents for etching solutions
Patents for etching and stripping solutions</p> <p>2012 Expansion and relocation of the Second Factory</p> <p>2013 Extension of the Third Lab and Analysis Center</p> <p>2014 Branch Establishment in Hanoi, Vietnam
Received 5 million USD Export Tower award</p> <p>2015 Acquired certification of enterprise specializing in parts materials.
& roots technique</p> <p>2016 Schedule for moving in MTV
Technology Innovation Award from SAMSUNG ELECTRO-MECHANICS
Acquisition Cheonan Pungse Industrial Complex of 11,880 m²</p> <p>2017 Schedule for moving in Cheonan Pungse Industrial Complex</p> | <p>1997 成立纳勒科技 (贸易业)</p> <p>2001 生产许可
日山事业部转到水源事业部</p> <p>2002 选定企业银行 (IBK) Family
研发 D/F 专用 前处理药水
研发 D/F 设备专用清洗剂
研发 Soft Etchant SE Series</p> <p>2003 取得 ISO 9002 认证与
国税局颁发模范纳税人表扬章
研发去膜添加剂</p> <p>2004 出口大德电子 (菲律宾工厂 DDPI)
选定 LG 电子优秀协力公司奖</p> <p>2005 设立中国工厂 (中国 江苏省 苏州市)
研发 Half Etching Series
取得 ISO 14001 环境认证</p> <p>2006 研发 Soft Etching MET Series</p> <p>2007 研发 SAP Etchant Series
研发消泡剂 Btix-100</p> <p>2008 登记中小企业厅 技术创新 INNO BIZ</p> <p>2009 第二次国税局颁发模范纳税人表扬章</p> <p>2010 成立 NR G&C 二工厂 和技术研发室
成立 NR G&C 物流部
研发 Amine 系列 D/F 去膜液
研发 PSR 设备专用清洗液</p> <p>2011 荣获 300 万美元出口奖
有关蚀刻液申请专利</p> <p>2012 设立第 2 工厂</p> <p>2013 扩大设立第 3 实验室和分析室</p> <p>2014 在越南设立联络办事处
荣获 500 万美元出口奖</p> <p>2015 研发并认证新型材料企业,
获得独创技术研发认证</p> <p>2016 诗画 MTV (Multi-Techno Valley) 准备入住
三星电机品质革新奖
买入天安丰世产业园 3,600 坪</p> <p>2017 Cheonan Pungse Industrial Complex 准备入住</p> |
|---|--|



NR G&C No. 1 Plant
NR G&C 一工厂



NR G&C No. 2 Plant
NR G&C 二工厂



China Plant
中国工厂



Vietnam Plant
越南工厂



MTV (under construction)
MTV (under construction)



Logistics Center
物流部

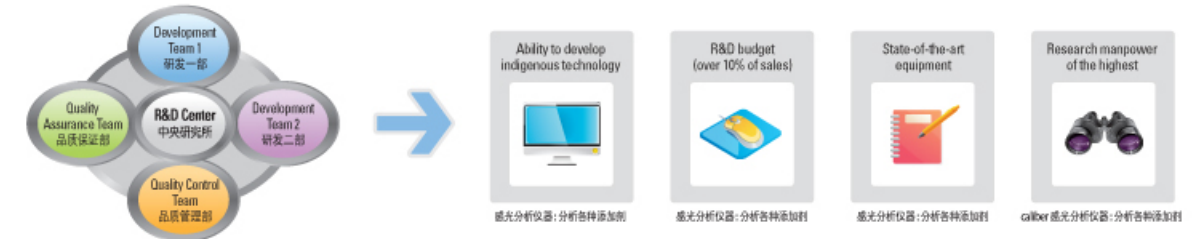


R&D Center 中央研究所

NR G&C R&D Center has been spearheading technological breakthroughs in the domestic and global pcb market that has been going through rapid changes with the aim to deliver the best quality befitting NR G&C ultimate goal towards Green Chem Leader. Specifically, NR G&C R&D Center takes its level of global competitiveness to a higher level by dedicating itself to boosting technological values, creating new industries, providing tailored customer service, developing high value added products and exploring into future hi-tech industrial technologies. The unwavering spirits and commitment by the researchers, tailored customer service, which is provided via direct communication with customers, enabled by field experience, know-how and technological power built over the years and development of new products whose quality is second to none make NR G&C R&D Center the pcb chemical leading brand.

NR G&C R&D Center will continue to stand by you as your strong partner dreaming for further growth of pcb industry like a beacon that lights up the dark sea.

我们在 Green Chem Leader 的经营理念下, 以力求最高品质为目标, 在这十余年间一直根据国内外PCB市场的变化进行技术开发, 稳固发展。NR G&C研究所在研发提高技术价值及研发新项目; 对顾客要求的针对性服务; 研发更高附加值的产品和未来尖端产业技术等各方面尽心尽责, 确保和提高在这一产业中的世界竞争力。NR G&C研究所的全体研究员不仅为自身所负责的每一项研究课题竭尽所能, 而且注重积累和提高产线实务经验, 能以更好的为和顾客直接性communication 中提供针对性的服务, 逐渐成为研发最高品质新产品的pcb chemical leading brand。今后, 我们研究员依然会像茫茫夜海中闪耀的航标灯一样, 包着成为PCB产业发展的伴随者的理念, 以最高的技术和品质与各位共同发展。



R&D status 研发现状

Achievements

- 1998** developed high-performance soft etching solution
- 2001** developed non-silicon foaming agent
- 2002** developed high-performance equipment washing agent
- 2003** developed degreasing agent, stripping solution for fine pattern
- 2004** developed half etching solution for PCB
- 2005** developed surface finishing agent for high-density circuit board
- 2006** developed SAP(Semi-Additive) Process etching solution, acquired ISO 9001
- 2007** developed etchant additive for high-density wiring, acquired ISO 14001
- 2008** established NR G&C R&D Center
- 2010** developed stripping solution for LDI (Laser Direct Image), developed 10/10 μ m SAP etching solution
- 2011** applied patent on SAP, Stripping solution
- 2012** Development of equipment cleaner CL -210 Development of MSAP FE Series
- 2013** Development of high-performance degreasing solution CS-507
- 2014** Developed non-etching & non-amine stripper
- 2015** Developed soft etching solution of high resistance to chlorine Heavy Resist Stripping Developing Solution
- 2016** Development of Stripping additive NR-B for NaOH Solution Development of Eco-friendly Lubricant Cleaning Solution

研发成果

- 1998年: 研发高性能 soft etching solution
- 2001年: 研发non-silicon消泡剂
- 2002年: 研发高性能设备清洗液
- 2003年: 研发脱脂液, fine pattern专用去膜液
- 2004年: 研发PCB专用 half etching液
- 2005年: 研发针对高密细线路表面处理液
- 2006年: 研发SAP(Semi additive Process)etching液, 取得 ISO 9001
- 2007年: 研发针对高密细线路etchant additive, 取得ISO 14001
- 2008年: 成立 NR G&C 研究所
- 2010年: 研发LDI(Laser Direct Image)专用去膜液, 研发10/10 μ m SAP etching液
- 2011年: 申请SAP相关技术专利
- 2012年: 新开发设备清洗液 CL -210 开发MSAP FE Series
- 2013年: 开发高性能脱脂液 CS-507
- 2014年: 研发非蚀刻 & 非胺系去膜液
- 2015年: 研发抗氯离子微蚀液和超中粗化液 研发薄膜PI显影液
- 2016年: 开发NaOH去膜添加剂 开发环保型润滑油清洗剂

Equipment 仪器名称



04

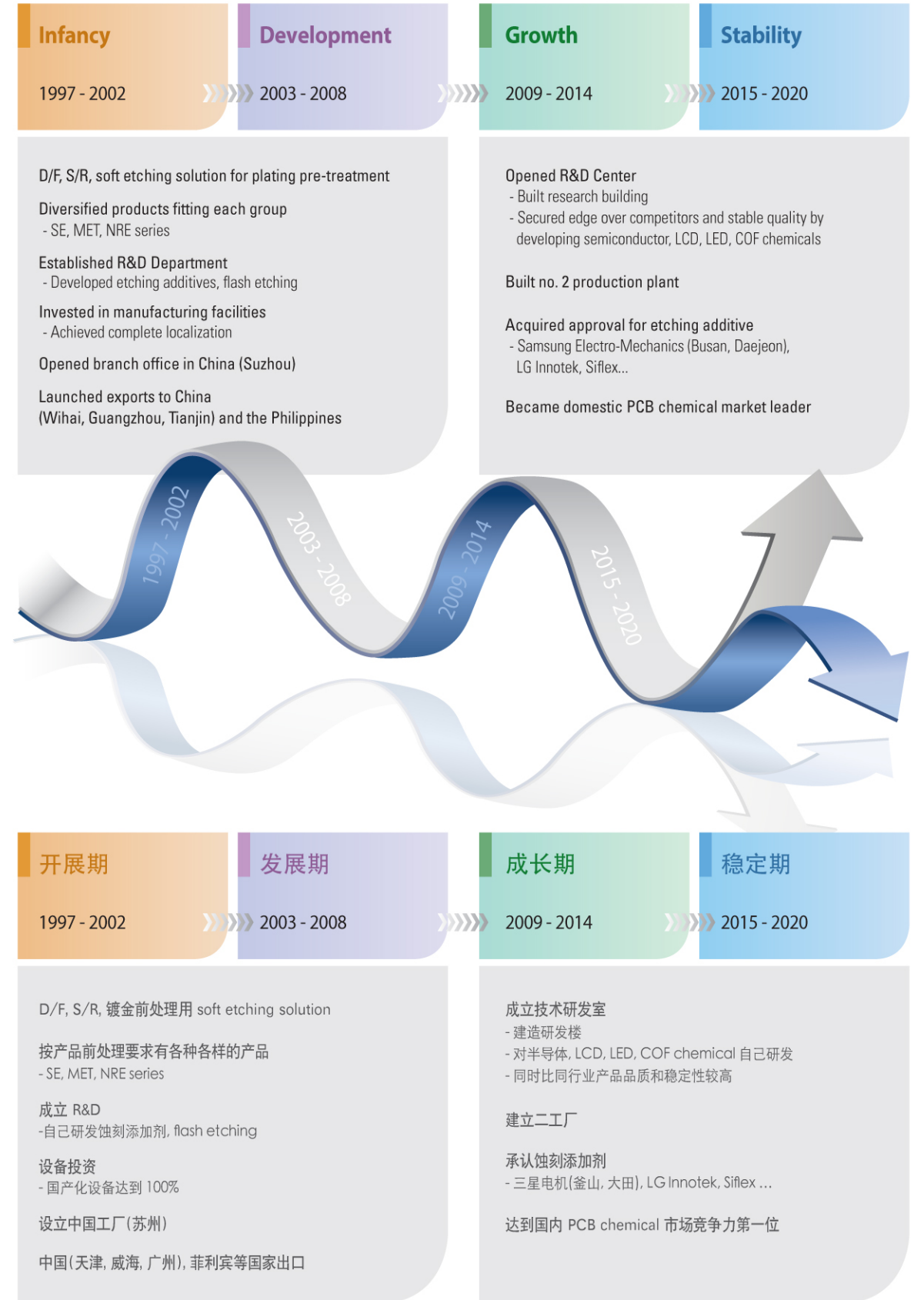


Technical service team



05

Technical service team | 技术支援部





Business (Overseas) | 商务

Confidence in Quality and Investment for Future

NR G&C exports products and operates overseas offices based on ultra-precision and advanced technology related to PCB and TSP. Our company started to export in 2004 to DDPI(DAEDUCK Philippines, Inc.) and established our Chinese subsidiary and built a plant at Suzhou, Jiangsu province in 2005. NR G&C set up overseas branches and, with technical and logistical support, actively help other PCB and TSP firms go global. NR G&C has learned about high-quality facilities and advanced technologies in Japan through NEMAX, a Japanese agent and advisory body. On the basis of our confidence in quality, our company built a plant in SI-HWA Multi Techno Valley to expand automation facilities. NR G&C won 3 Million Dollar Export Award in 2012, and is expected to win 10 Million Dollar Export Award this year. In early 2014, our company established a branch and built a plant in Hanoi, Vietnam.

为了品质的自信与未来的投资

NRG&C 是生产线路板与触摸屏关联超精密、超高度技术产品的公司。向海外出口并在海外设立着分公司。因DDPI(大德电子菲律宾工厂) 2004出口贸易为契机, 2005年在中国苏州设立工厂。因线路板与触摸屏公司向海外地区开设工厂, 所以为了更好地服务客户, 在多地开设办事处, 积极的给予技术支持与协助物流公司。现在在日本东京 NEMAX 公司的AGENT为技术顾问, 在那里习得了比日本更先进的设备与技术, 基于品质的自信, 为了打造诗画MTV(地名)工厂, 正准备进行了自动化设备设施的扩充。2012年受 300 万美金出口最高的嘉奖, 2017 年也期待1000万美金出口最高的嘉奖, 2014年在越南河内开设分公司。



 | KOREA

Headquarter: 23, Emtibeui 1-ro 91beon-gil,
Danwon-gu, Ansan-si, Gyeonggi-do, Korea
Tel. +82-31-492-9207~10 / Fax. +82-31-492-9217

 | CHINA

HuangQiao FangBang, XiangCheng Area,
SuZhou City JiangSu Province, China, Post: 215132
Tel. +86-512-8818-6328 / Fax. +86-512-8818-6327

 | VIETNAM

Yen My Town, Yen My District,
Hung Yen Province.
Tel. +84-321-396-1768 / Fax. +84-321-396-1768



ISO 9001 Certification

ISO 14001 Certification



SAMSUNG ELECTRO-MECHANICS, LG Innotek Cooperation Company