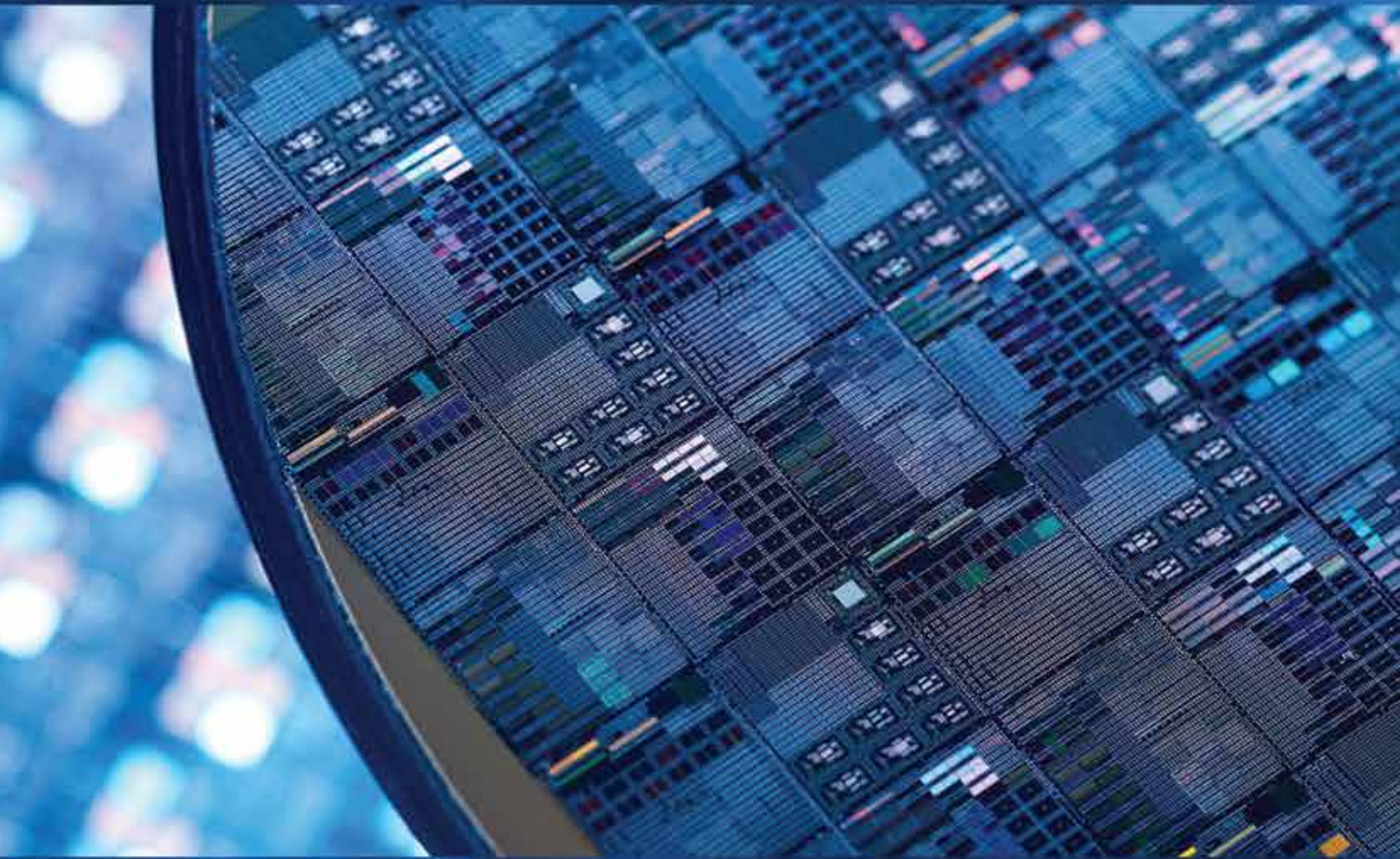




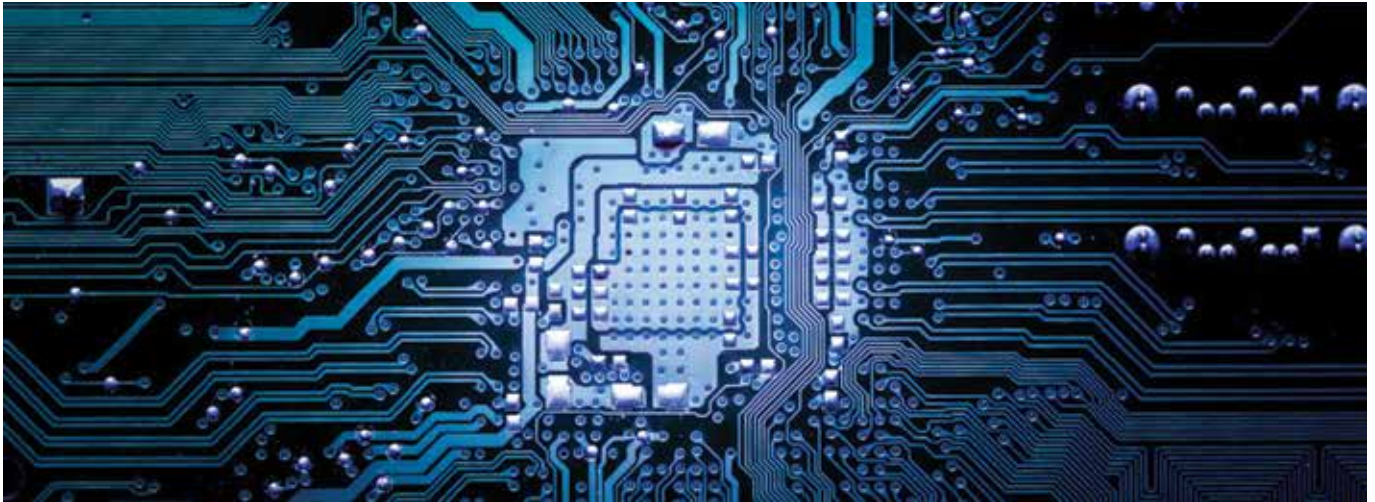
Semiconductor Backend Tools Catalog



2022



AT A GLANCE



Oricus Semicon Solutions is an innovative Semiconductor Tools manufacturing company who, with almost 100 years of collective expertise, craft high tech bespoke tooling solutions for the global Semiconductor Assembly and Test industry.

From one-off customised products to large scale production, our R&D strength, precision manufacturing experience and problem-solving capabilities are impeccable. With a passion for engineering and customer oriented service, we deliver price competitive precision Semiconductor Tooling solutions to a global market with a local presence.

Oricus is made up of a global network of professionals with strong commitment and passion for our work. The company is managed and operated with a spirit of professionalism based on the foundation of integrity, equality and respect. We are determined, objective with a sense of ownership to deliver on our goals. We value our values, professionalism, passion, perseverance and our relentless pursuit to deliver value for our customers.



Authenticity



Expertise



Professionalism



Perseverance



Passion



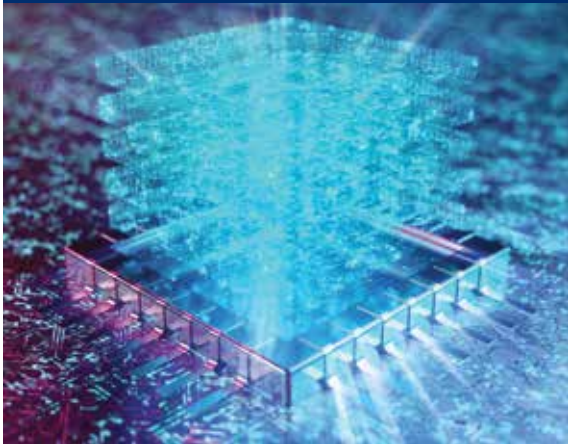
Community

Oriented to Customer's needs



We excel at creating specials – one of a kind pieces, with one of a kind craftsmanship combining with the latest in manufacturing technology to produce micro precision tooling. Oricus can Design and Manufacture either one-offs or high volume orders to your unique specifications, from High Temperature resistant tools for Power Devices to tools with complex geometries for 3D Advanced Packaging.

Industry Leading Solutions



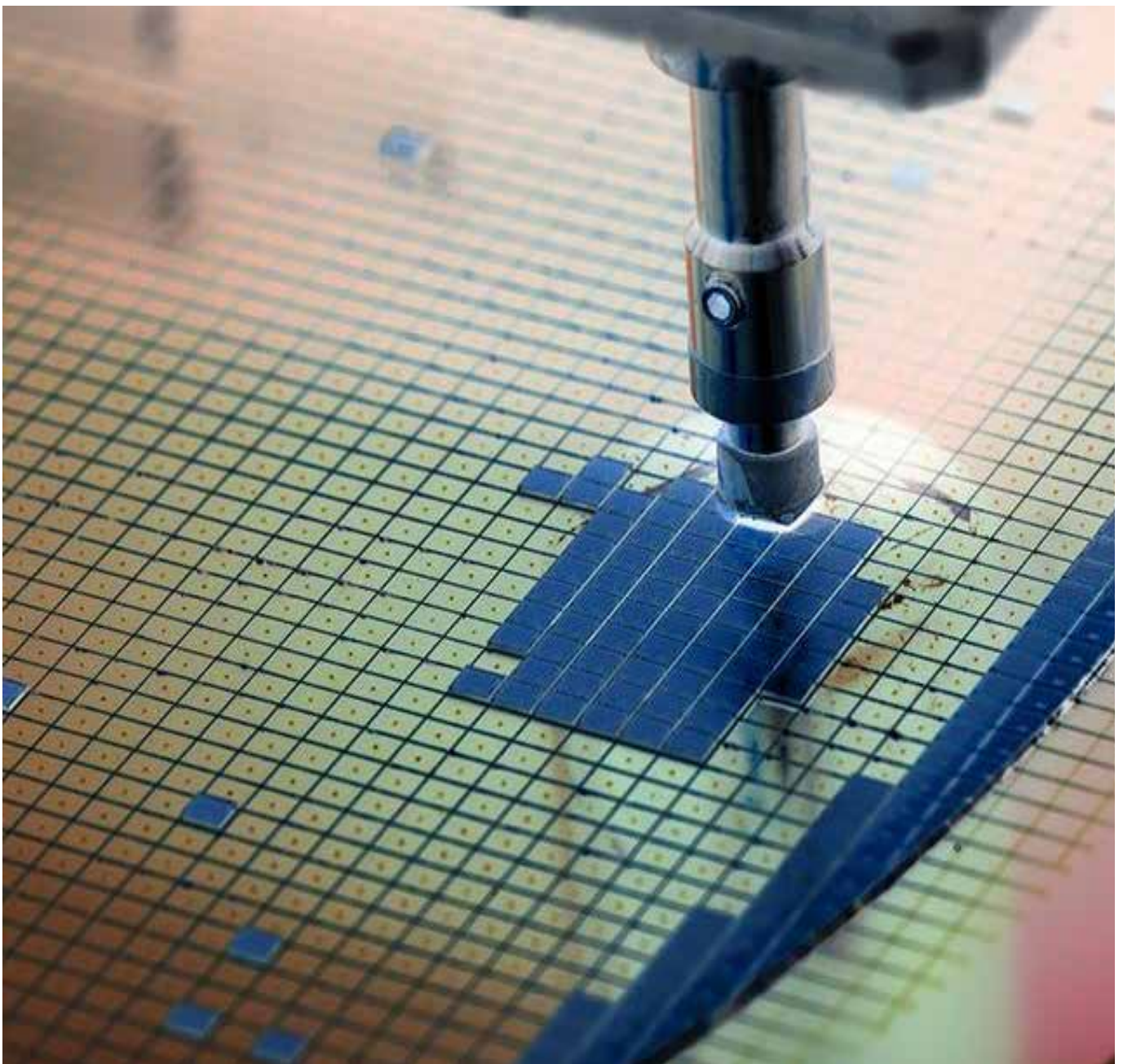
Our Technical Sales Consultants and R&D teams of seasoned Semiconductor Assembly and Test industry professionals will study your chip and package requirements and offer effective and competitive tooling solutions that will work right out of the box. Oricus has the solution to your tooling requirements. Leave it to us and you can focus on your key processes.

Research and Development



R&D is the cornerstone of our commitment to deliver market leading tooling solutions. Our Material Science know-how, coupled with our Manufacturing Expertise and knowledge on the latest demands of Integrated Circuits Packaging allow us to offer tools that maximizes productivity and minimizes downtime.

Die Attach



Holding Systems



Anvil Blocks

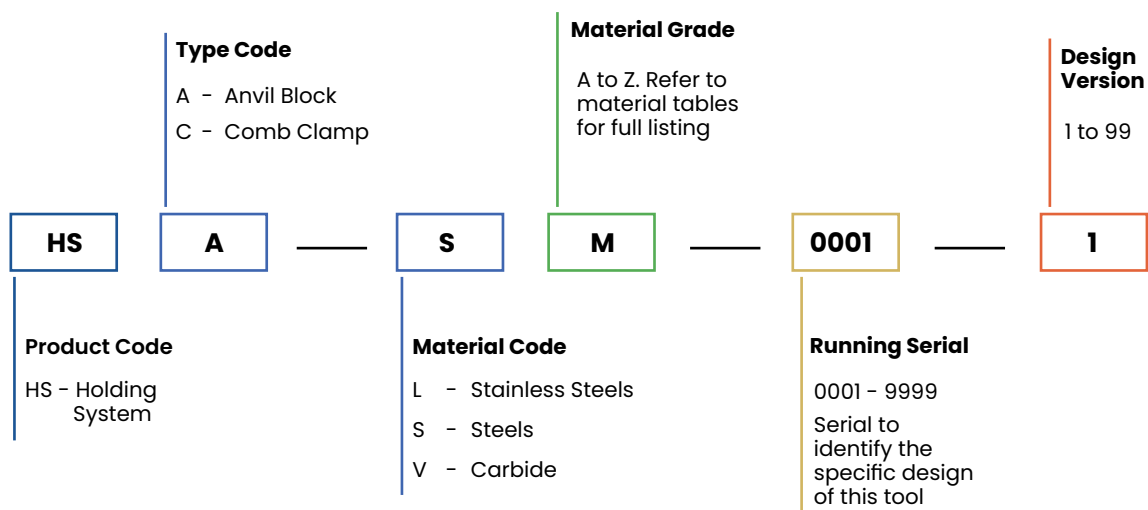
Anvil Blocks fully customizable to the pad size and pitch of your leadframe or substrate



Comb Clamps

Comb Clamps are designed according to the layout of the leads or dam bar of your application.

Part Numbers And Ordering

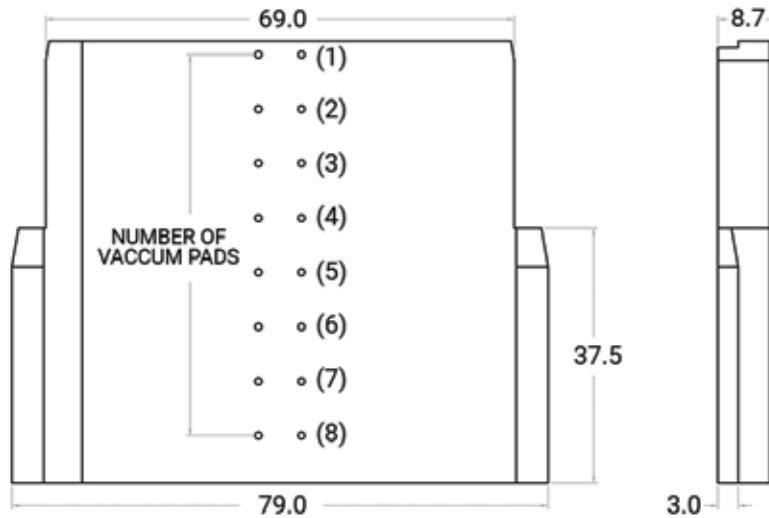


Anvil Block



Anvil Block is a workholding component used in the Die Attach process to secure the carrier during epoxy dispensing. According to the pad size and pitch of your leadframe or substrate, we will customize our Anvil Block designs with dedicated vacuum hole positions for your application.

Oricus manufactures a wide range of Anvil Blocks to fit a wide range of machines from OEMs such as Datacon, ESEC, ASM, Canon Bestem, Hitachi/Fasford, MRSI and more.



Features

- Suitable for use in Die Bonders, Flip-Chip, Die Sorters and Surface Mount Technology (SMT) machines
- Available in various Stainless Steel, Tool Steel, Superalloys and Carbide grades that are suitable for Cleanroom environments
- Precision of our Anvil Blocks and manufactured controlled to exacting dimensional tolerances and surface finishes

Benefits

- Our Anvil Blocks are designed manufactured specially for your application, accounting for all machine features and specification
- Our proprietary Plug-and-Play design allows you to reduce set up time to a minimum
- Design methodology behind our Anvil Blocks is to maximize productivity and reduce waste for our customers

Part Number	Number of Vacuum Pads
HSA-SM-0001-01	8
HSA-SM-0001-02	6
HSA-SM-0001-03	5
HSA-SM-0001-04	5
HSA-SM-0001-05	8
HSA-SM-0001-06	8



ESD Properties

Conductive $10^5 \Omega$

Applications

Standard Die Attach
Flip Chip
2.5D/3D
Wafer Level Packaging
Panel Level Packaging
System in a Package

Anvil Block Material

Tool Steels
Stainless Steels

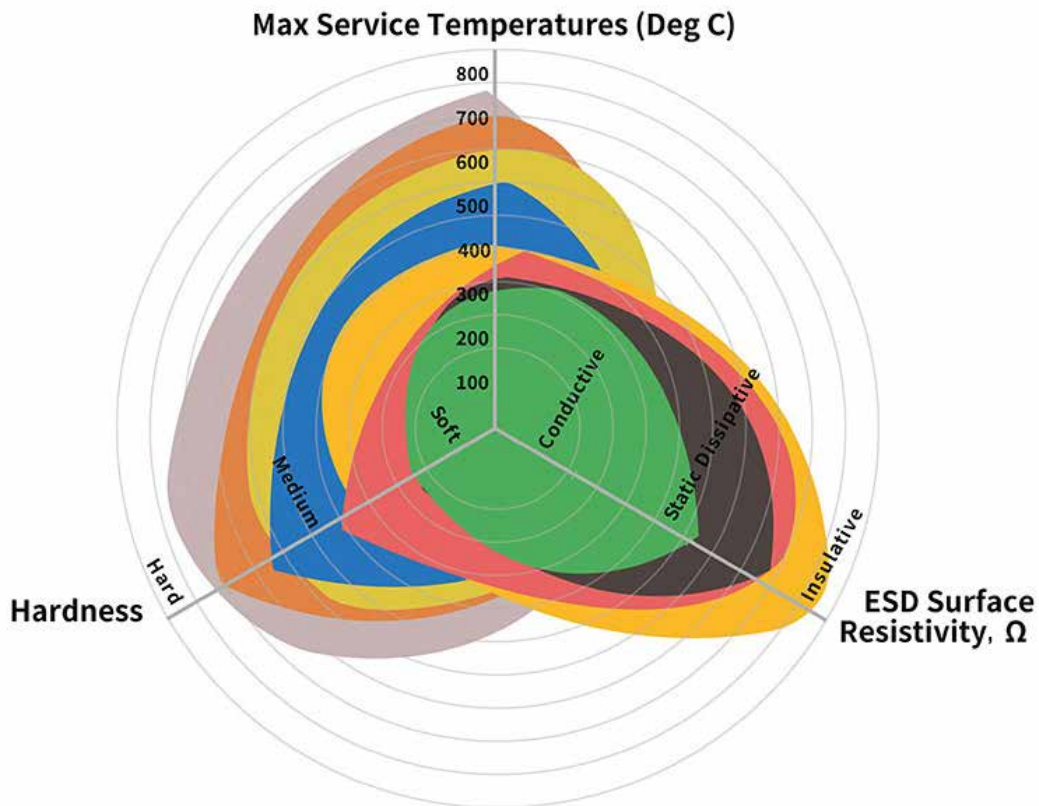
Customization

Customized to fit your pad size and pitch of leadframe
Vacuum holes and holes positions

MATERIALS

Oricus's extensive line of engineered materials specially developed and selected to offer optimal tooling performance for your specific Semiconductor Backend process. Our in-house materials are closely developed in partnership with Original Equipment Manufacturers with input from our customers. For externally procured materials, each material goes through a rigorous Quality Assurance and Performance Assessment programme before making it into our material list.

Oricus' in depth understanding and experience of materials allows us to formulate tooling solutions that work for you. As part of our value proposition, we study the conditions of your application and suggest the most appropriate material that meets your needs.



Tungsten Carbide *WC Line*

Superalloy *SA Line*

Stainless Steel *SS Line*

Tool Steel *TS Line*

Non Ferrous Metals *NF Line*

Performance Engineering Plastics *SP Line*

Engineering Plastics *EP Line*

Rubber *R Line*

<p>WC LINE</p> <p>Tungsten Carbide</p> <p>High Wear & High Temp Resistance</p> <p>Carbide, K15 Carbide, K30 Carbide, M30 Carbide K40 Carbide, MG30</p>	<p>SA LINE</p> <p>Superalloy</p> <p>All-Round Superior Performance</p> <p>Haynes 25 (L605) Inconel Alloy 625 Inconel Alloy 718 Incoloy Alloy 925 Nitronic 50 Nitronic 60 Titanium Grade 2 Stellite 6 Stellite 31</p>	<p>SS LINE</p> <p>Stainless Steel</p> <p>Balanced Properties</p> <p>15-5 PH 17-4PH SUS 430F SUS 420 SUS 440C SUS 316 SUS 301 SUS 304 SUS 303</p>	<p>TS LINE</p> <p>Tool Steel</p> <p>High Strength</p> <p>CPM-10V SKD 11 SKH 51 Mirrax 40 ASP 23 Stavax XW 10 XW 42 Assab 718 - HH HSS DF2 DF3 Ramax HH Rochling 2315</p>
<p>NF LINE</p> <p>Non Ferrous Metals</p> <p>Special Applications</p> <p>Aluminium 7075 Aluminium 6061 Copper Brass Hovadur K350</p>	<p>SP LINE</p> <p>Performance Engineering Plastics</p> <p>Advantageous Performance & Value</p> <p>Torlon 4432 (PAI) Torlon 4301 (PAI) Torlon 5030 (PAI) Torion 7130 (PAI) Vespel SCP5050 (P) Vespel SP 21 (PD) Vespel SP1 (PI) ESD Semitron 520 ESD Semitron 420 ESD Semitron 410C ESD Semitron 225</p>	<p>EP LINE</p> <p>Engineering Plastics</p> <p>Economical And Versatile</p> <p>Acrylic/ Polycarbonate TECAFORM SD Delrin ESD Delrin White Delrin Black POM PEEK PEEK HT PEEK GF 30% PEEK CF 30%</p>	<p>R LINE</p> <p>Rubber</p> <p>Geometric Flexibility ESD Protection</p> <p>NBR NBR (Soft) NBR (Hard) NBR (Coated) HPR HPR (Soft) HPR (Hard) UPR CR (ESD) CR</p>

Contact Us

United States

📍 40 Trolley Square, Wilmington, Delaware

✉ us.sales@oricus-semicon.com

☎ +1 302 725 3188

United Kingdom

📍 15 Charleville Circus, Flat 3 London

✉ eu.sales@oricus-semicon.com

☎ +44 330 128 9181

Singapore

📍 2, 488 Sims Avenue, Singapore, 387560

✉ sg.sales@oricus-semicon.com

☎ +65 68649617

Malaysia

📍 8, Jalan Damanlela, Pusat Bandar Damansara Wilayah Persekutuan, Kuala Lumpur

✉ my.sales@oricus-semicon.com

☎ +60 154 600 0140

Philippines

📍 I Light Industry and Science Park of the Philippines Cabuyao, Laguna

✉ ph.sales@oricus-semicon.com

☎ +63 2 8271 2168

China

📍 Block D, Hangcheng Smart Security Science Park Shenzhen Guangdong

✉ cn.sales@oricus-semicon.com

☎ +86 400 842 7789

Hong Kong

📍 #28-34, 88 Commercial Building Wing Lok St Sheung Wang

✉ hk.sales@oricus-semicon.com

☎ +852 3008 8283

Taiwan

📍 7F, No.2-1, WhenHu Street Taipei, 11445

✉ tw.sales@oricus-semicon.com

☎ +886 2 7753 5371

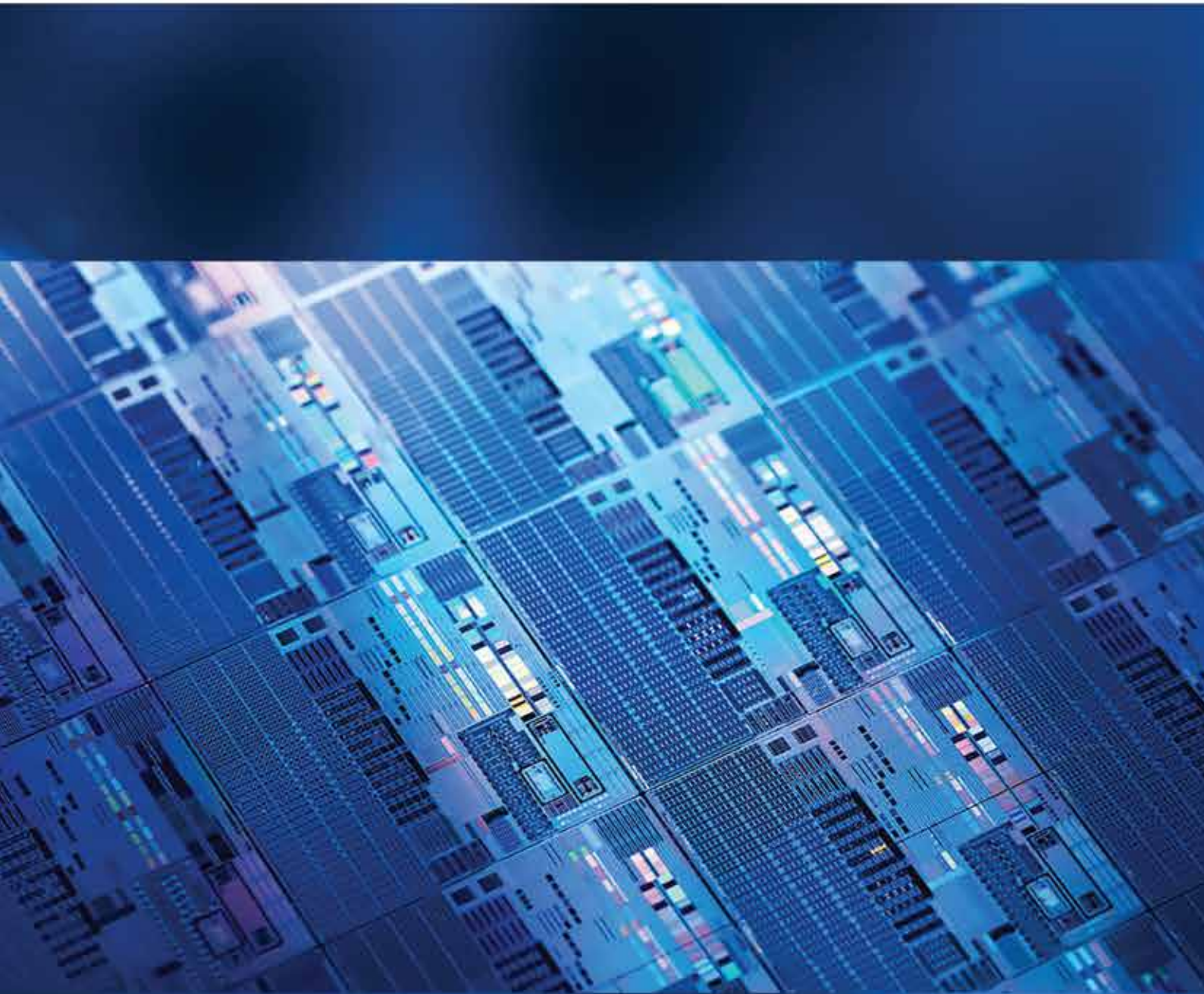
Korea

📍 27 Noksapyeong-daero 26ga-gil Seoul Seoul

✉ kr.sales@oricus-semicon.com

☎ +82 2 2023 6568





www.oricus-semicon.com
info@oricus-semicon.com