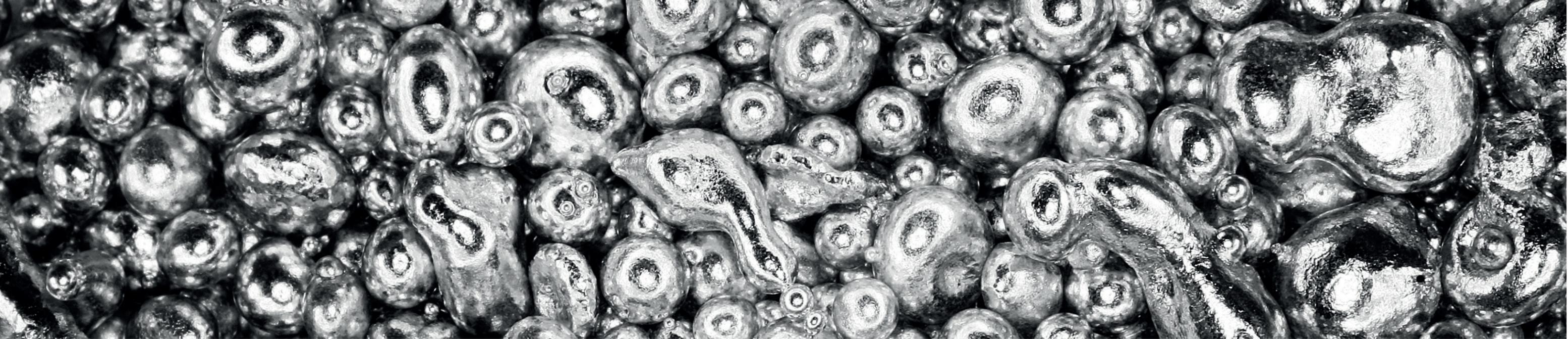


# JM

## Medical Components



**Johnson Matthey**  
Inspiring science, enhancing life



With 200 years of expertise in platinum group metals, Johnson Matthey offers medical device manufacturers the security of supply to source, manage, fabricate, and recycle materials for your devices. Our extensive experience in developing advanced materials, combined with manufacturing excellence, provides a broad range of offerings to both contract and device manufacturers. We value your needs, and support you with our dedication to service and quality. Our commitment to innovation and R&D across all of our products and services will allow you to stay competitive now, and in the future.

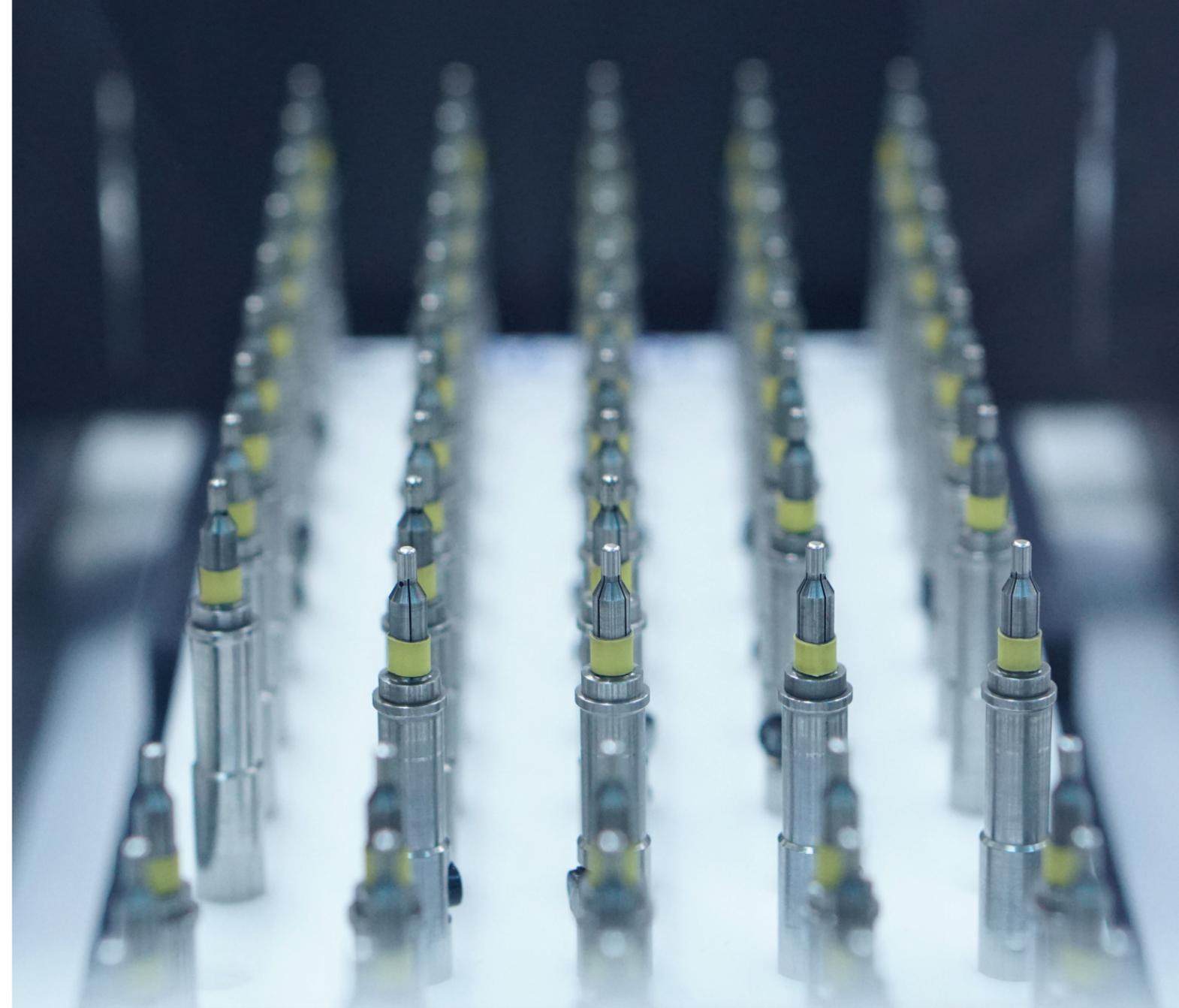
## Making a healthier world

By developing industry leading sustainable technologies, JM provides high-quality precision machined components, implant grade Nitinol parts, and advanced coatings and surface solutions. Everything we do is designed to enhance the capabilities and reliability of your medical devices. With our comprehensive knowledge of managing

precious metals and developing precious metal-based applications, we are the trusted partner to support your growth by offering stability in the supply chain. Our expertise in material science, rapid prototyping capabilities and metal management services will accelerate your innovation in medical devices and contribute to a healthier world for all.

## Precious metals and precision micromachined components

Medical device companies need a partner who can offer high quality, comprehensive solutions, to help manufacturers develop competitive technologies that are first to market. Two centuries of materials expertise and innovative manufacturing technologies enable us to efficiently meet our customers' needs.



The next generation of minimally invasive surgical devices rely upon complex engineering, precise delivery, and excellent mechanical control. We leverage decades of micromachining expertise to provide our customers with high-quality electrodes, markers, and other medical components. Our customers greatly benefit from collaborating with our dedicated team of researchers, engineers and sales representatives from the initial phases of R&D

prototyping through product launch. Beyond our emphasis on manufacturing excellence, we also offer metal and inventory management options to ensure supply chain security, with full turnkey refining and recycling solutions. From cochlear implants to pacemakers: we combine our proficiency in micromachining with our deep knowledge of metallurgy to benefit customers and patients alike.

## Nitinol

Nitinol is used in a wide range of applications in markets such as vascular intervention, orthopedic, neurovascular, endoscopy and dentistry. With over 20 years of experience in manufacturing and shape setting Nitinol tube, sheet, and components for the medical device industry, we have the expertise to meet rigorous specifications.

An advanced material like Nitinol possesses critical physical and mechanical properties and offers elegant solutions to meet complex anatomical and physiological needs. Nitinol's biocompatibility, kink resistance, superelasticity and ability to shape set, helps medical device

designers to develop next-generation medical devices. From producing a cost-effective implant grade premium ID Nitinol tube (improving stent yield and cost control for stent producers) to excellent thickness control to create the thinnest sheet in the industry, JM is your trusted choice for Nitinol.



## Coatings and surface solutions

Our innovative and customized coatings and surface solutions enable new technologies for medical devices by enhancing surface functionality of various metallic, polymeric, and ceramic components. These novel coatings will enhance functionality, battery life and device size, and will ultimately improve the lives of patients by preventing infections and reducing surgery time.

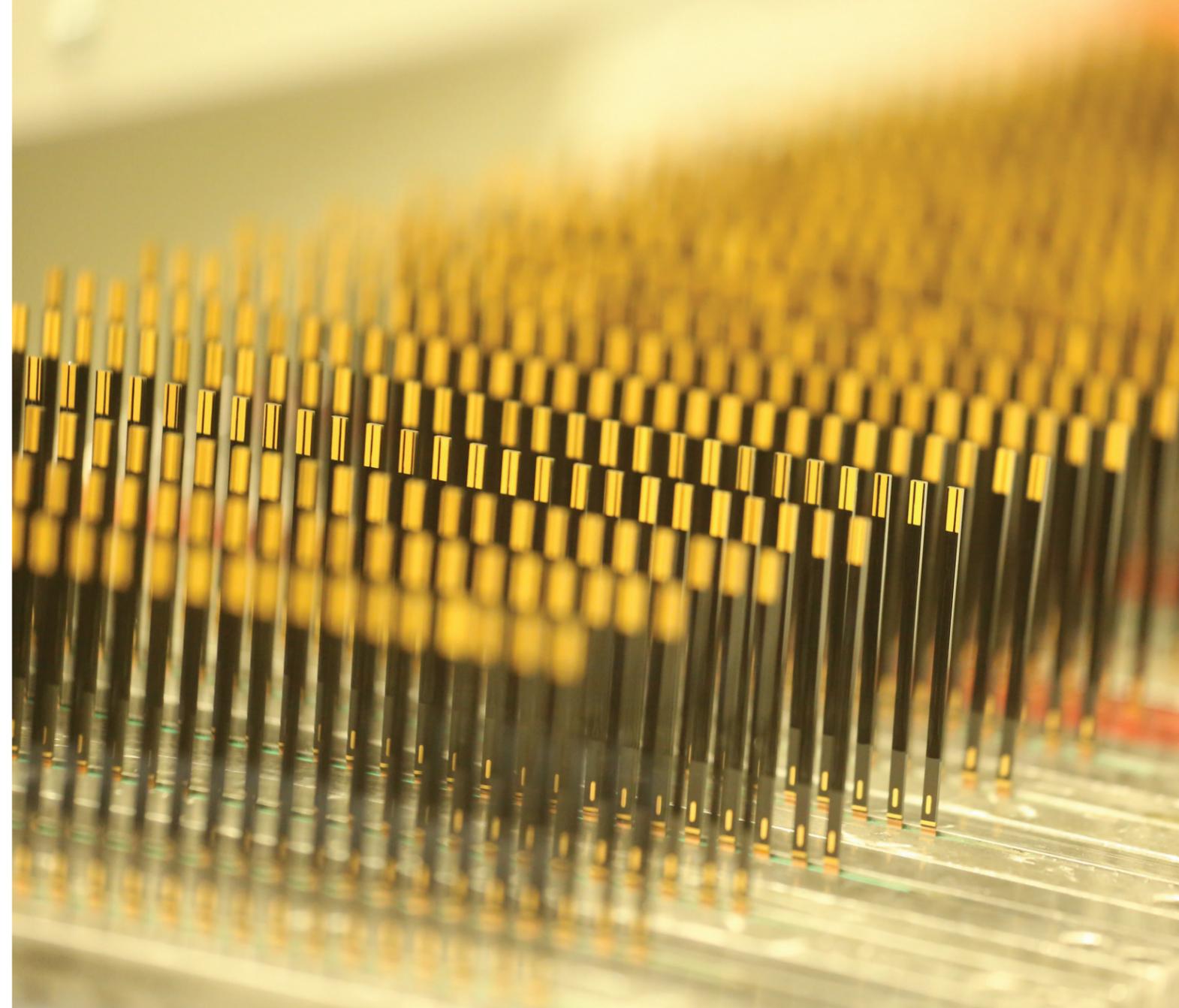


Our specialty coatings and surface solutions add value to our customers' devices, and improve expected outcomes. We dedicate our time to R&D, helping us to innovate for our customers. We also enable better implant performance through various means; for example, smaller electrode design, increase in the

number of stimulation sites and enhanced antibacterial properties to reduce repeat surgery incidences. Our advanced coatings and surface solutions will differentiate your medical devices across a range of markets, such as CRM, neuromodulation, electrophysiology, cochlear, and orthopedics.

## Piezo and next generation technology development

Our scientists' expertise coupled with our commitment to R&D enables us to develop innovative technologies that solve real world challenges on a global scale.



We combine our material science expertise with cutting-edge technologies to provide the best solutions to our customers. We are the market leaders in Piezo benders that offer excellent flow control and microdosing in drug delivery systems. Our Piezo actuators, sensors, and atomizers have wide applications in

drug delivery, robotics, prosthetics, BCI and ultrasound technologies. The braille keyboards that use our actuators improve the quality of life for millions of visually impaired people. The next generation medical devices have implantable pulse generators that can greatly benefit from our Piezo energy-harvesting technologies.

# Worldwide locations

Our network of state-of-the-art manufacturing and technology centers, along with sales sites, spans Europe, North America, Asia Pacific and the Middle East. Our European sites include manufacturing & sales in Royston, UK and Redwitz, DE, as well as a technology center in Sonning, UK. In the US, our manufacturing centers of excellence are located in San Jose and San Diego, CA,

with a manufacturing, sales & technology center in West Chester, PA. Our global sales capabilities include sites across Asia, including Mumbai, Bangkok, Hong Kong, Shanghai, Seoul and Tokyo. Our manufacturing and sales reach is further supported by our sites in Melbourne, AUS, and Tel-Aviv, ISR.

- Manufacturing & Sales Site
- Sales
- Technology Center
- Manufacturing, Sales & Technology Centre



# Our global footprint

Our inspiring science reaches far and wide. We invest in JM's global footprint to ensure we are best positioned to serve our customers and meet future demand in the medical device industry. To find out how we can help you, get in touch:

## Europe

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Germany	Bahnhofstr. 43, Redwitz 96257, Germany	(0049) 95 7481 470
Austria		
Belgium		
France		
Spain		
Switzerland		

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Denmark	Frederikssundsvej 274D DK-2700, Copenhagen, Brønshøj, Denmark	(0045) 3839 5200
Finland		
Sweden		

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Ireland	Naas Industrial Estate, Naas, Co Kildare, W91 E409, Ireland	(00353) 87 273 4923
United Kingdom		
Italy		

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## Americas

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US	1397 King road, West Chester, PA, 19380, USA	(001) 610 648 8067
Canada		

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## Asia Pacific

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Australia	64 Lillie Crescent, Tullamarine, Melbourne, Vic, 3043, Australia	(0061) 3 9344 7777
China	586 Dongxing Rd, Songjiang Industry Zone, Shanghai, 201613, China	(0086) 21 3352 8282 Ext.6267
Hong Kong	Unit 2-6, 8th Floor, 909 Cheung Sha Wan Road, Kowloon, Hong Kong	(00852) 2738 0322
Japan	Imperial Tower 14th floor, 1-1-1 Uchisaiwai-Cho, Chiyoda-Ku, Tokyo 100-0011	(0081) 3 5511 8555
Korea	Lotte Castle 101-2803, 467, Gongduck-Dong, Mapo-Gu, Seoul, 121-805, Korea	(0082) 2 326 3805
Taiwan	8F-8, No. 51, Sec. 2, Keelung Road, Taipei, Taiwan 11052	(00886) 2 8978 0121
Thailand	1858/12 TCIF Tower, 5th Floor, Bangna-Trad Road, Kwang Bangna, Khet Bangna, Bangkok 10260, Thailand	(0066) 2 751 5121

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## Middle East

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Israel	PO Box 21016, Tel-Aviv, 6121001, Israel	(00972) 3 629 2965
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To find out more visit [matthey.com](http://matthey.com)

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or call +1-610-648-8000