

# Capabilities

**KIRK Process Solutions Limited**

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[www.kirkprocess.com](http://www.kirkprocess.com)

## COMPANY PROFILE

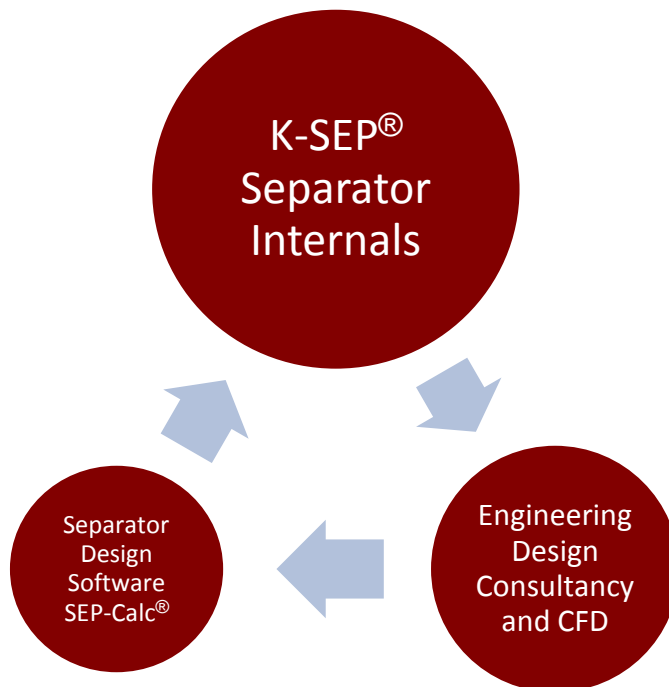
2016

# Company Activities

The company's core business is the design and supply of K-SEP<sup>®</sup> specialist vessel internals for gas/oil/water/solids separation, related primarily to the oil & gas and petrochemical industries. These are installed in new and retrofit applications.

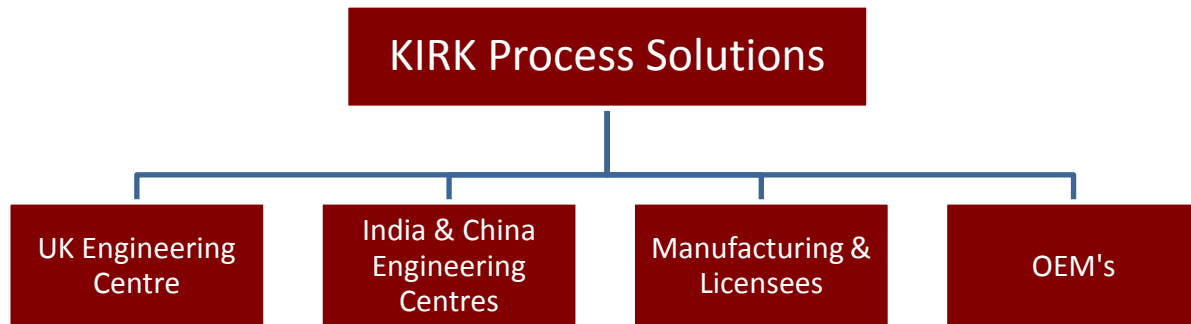
Products are delivered to customers either directly from ourselves or from our regional offices and licensees in India, China and the USA.

In addition to internals supply, we offer specialist support services to allow customers to optimise designs and verify separator performance predictions.



Company Registration No	7007824
UK VAT Number	GB 977 8088 48
Bankers	HSBC
Approximate Sales Turnover	US\$ 1-2 million

# Company Structure



Our UK Engineering Centre develops the core know-how for K-SEP<sup>®</sup> product designs and ensures continuous improvement across the range.

The Highspeed™ Cyclone products are manufactured and stocked here. Our SEP-Calc<sup>®</sup> software operation is also based here.

In addition, all head office functions are carried out from the UK office, located to the South-West of London

Based South-East of Mumbai in Pune, our India Engineering Centre conducts specialist services such as process simulations, 3D visualisation and Computational Fluid Dynamics (CFD) analysis.

Our China office in Shanghai provides similar services to the regional industries in that area.

Our engineers here also provide support to our regional licensees.

Manufacturing is undertaken either in the UK or by our K-SEP<sup>®</sup> licensees in India, China and the USA.

All officially licensed designs are checked and verified at one of our Engineering Centres.

Customers may purchase K-SEP<sup>®</sup> products directly from our Licensees where it is more convenient.

Several well known process companies take our specialist products and incorporate them within their own portfolios, rebranded as OEM equipment.

In special cases we also offer design-only services to enable customers to manufacture their own bespoke internals.

KIRK is a 30% shareholder in HAT International - a UK supplier of mass transfer internals.



# K-SEP<sup>®</sup> Separator Internals

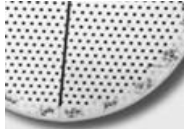
K-SEP<sup>®</sup> Inlet Distributors



## Vane Inlet Diffusers & Cyclone Defoamers

A range of devices for the effective distribution, momentum dissipation and defoaming of incoming multi-phase feeds

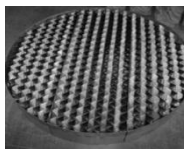
K-SEP<sup>®</sup> Liquid Distributors



## Perforated Distributor/Motion Baffles

To create an even flow profile into the separator and prevent surges in both fixed and floating (motion) applications

K-SEP<sup>®</sup> Coalescer Packs



## Plate, Matrix and Mesh Coalescers

To suit a range of coarse, fine and polishing applications in liquid/liquid separation duties

K-SEP<sup>®</sup> Sand Jet Systems



## Flat Jet Spray Systems

A proven arrangement for the effective removal of sediment and sand from the base of horizontal separators

K-SEP<sup>®</sup> Mesh Mist Eliminators



## Wire Mesh Demisters

A general purpose demister, available in a range of densities and wire diameters in metal alloys

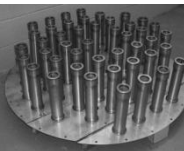
K-SEP<sup>®</sup> Vane Mist Eliminators



## Vane Mist Eliminators

Higher liquid and gas loads are handled with plain, hooked or pocketed vanes for horizontal and vertical gas flow or fouling applications

K-SEP<sup>®</sup> Axial Cyclones



## Axial Cyclone Mist Eliminator

An axial flow, swirl cyclone with very high capacity are available in stainless steel for liquid with light solids removal

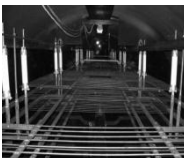
K-SEP<sup>®</sup> Multi-Cyclones



## Multi Cyclone Bundle

An effective device for the separation of high levels of liquids and / or solids in a single stage

K-SEP<sup>®</sup> Desalter Grids



## UniVolt, TwinVolt & TriVolt Grids

Using various arrangements it is possible to optimise the power and performance for most oil types

# Key Management

Michael Kirk - Chief Executive - UK



Mike graduated in 1978 from the University of Surrey with a B.Sc. degree in Chemical Engineering, the course including a year at South African Pulp & Paper manufacturer SAPPI. Following a graduate training year at British Gas, he joined the London office of Black, Sivalls & Bryson in Project Management and Proposals/Process Design roles, specialising in oil and gas production systems. He became a Chartered Engineer in 1984. This grounding enabled him to establish the first of his own businesses - KCC Process Equipment Limited - in 1985.

Under his Chairmanship KCC rapidly established itself as a market leader in separation and gas dehydration technology and built up a world-wide track record supplying countries globally such as Brazil, Nigeria, Gabon, Norway, Denmark, the UK, Russia, Libya, Saudi Arabia, the UAE, Oman, Yemen, India, Malaysia and China.

In the years 1985-2002 KCC set up companies in London, Abu Dhabi and Houston as well as acquiring a fabrication shop in Sussex, UK and obtaining ASME 'U' stamp certification. KCC won the Queen's Award for Export in 1993 and in 2002 the shareholders agreed to sell the business to Petreco, who in turn sold the group the following year to Cooper-Cameron.

Between 1994 and 2009 Mike served on the Board of the Energy Industries Council trade association, latterly in the role of Chairman of the Performance & Remuneration Committee.

During 2004 Mike signed an exclusive deal to market a specialist range of Highspeed™ cyclone products developed at Berlin University, for mist elimination and mass transfer applications.

In 2005 Mike bought a share in HAT International Limited - a specialist mass transfer internals business - and joined as Joint Managing Director. He helped expand the business, widen the product range, achieve ISO 9000 accreditation and establish branches in Pune and London before starting KIRK Process Solutions Ltd in 2009.

Abhijit Phatak - General Manager - India



Abhijit graduated in 1984 from the University of Nagpur, India with a B. Tech degree in Chemical Engineering.

After a few years in the Graphite and Polyester industry he joined Sulzer India Ltd in 1989 (the Indian arm of the Swiss company, Sulzer Ltd) and was responsible for design / marketing of structured packing and other tower internals. In 1993, he started representing Nutter Engineering, UK / USA for marketing their tower internals in the Indian market.

From 1997, he represented HAT International Ltd, UK to look after their sourcing activity for various tower internals from India, and then in 2005, was also instrumental in setting up their design, proposals and inspection office in Pune, India. This involved getting competitive quotations from Indian suppliers for various types of tower / vessel internals, recommending them to the parent company in the UK and, once orders were placed, ensuring quality of the products, timely delivery and also the packing and shipment to the destination.

He has been carrying out a similar activity for KIRK process Solutions since 2011.

## Lan Changlin (Gary) - General Manager - China



Gary Lan graduated in 1994 from the Shan Dong University, China with a B.Sc. degree in Chemical Machinery and Equipment. In 2003 he attained his M.Sc. from Nanyang Technological University, Singapore.

After some years in the oil & gas industry he joined Sulzer Singapore in 2004 and was responsible for the design of structured packing and other tower internals. In 2009, he joined Bechtel Oil and Gas (USA) as a tower internals specialist.

From 2011, he rejoined Sulzer China to establish the projects department of their process technology division, including setting up their design, proposals, engineering, procurement, fabrication and inspection office in Shanghai, China.

He has been carrying out a similar activity for KIRK Process Solutions since early 2015.

# Experience

We are pleased to list the following companies amongst clients and end users of our K-SEP<sup>®</sup> separator internals, our Highspeed<sup>™</sup> cyclones, our SEP-Calc<sup>®</sup> software or our consultancy services.

- Air Products, UK
- AMT Inc, USA
- BAPCO, Bahrain
- BP, Azerbaijan
- British Gas, India
- Conoco, Indonesia
- Coogee, Australia
- DDFC, Pakistan
- DwiMulti, Indonesia
- Evergreen Technologies, India
- Exspan, Indonesia
- Fasam, Italy
- Fenix Pvt Ltd, India
- Finepac Pvt Ltd, India
- Gas-Tech, India
- Gazprom, Russia
- Global Process Systems, UAE
- HAT International, UK
- ITP, Italy
- Maersk Oil, Qatar
- Norwood S&S Inc, USA
- Oil & Gas Systems Ltd, UK
- ONGC, India
- Pall Filters, Russia, Germany, Poland, UK, USA
- Process Group International, UAE, Australia
- Santos, Indonesia
- Sepco Process Inc., USA
- Shell Global Solutions, Netherlands
- Sparklet Engineers, India
- Specialist Services, UAE
- Total Filtration, Russia
- Perenco, UK
- Petreco-Cameron, UK
- Petrobras, Brazil

# Contacts

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