

Engineering the Future Delivering Today

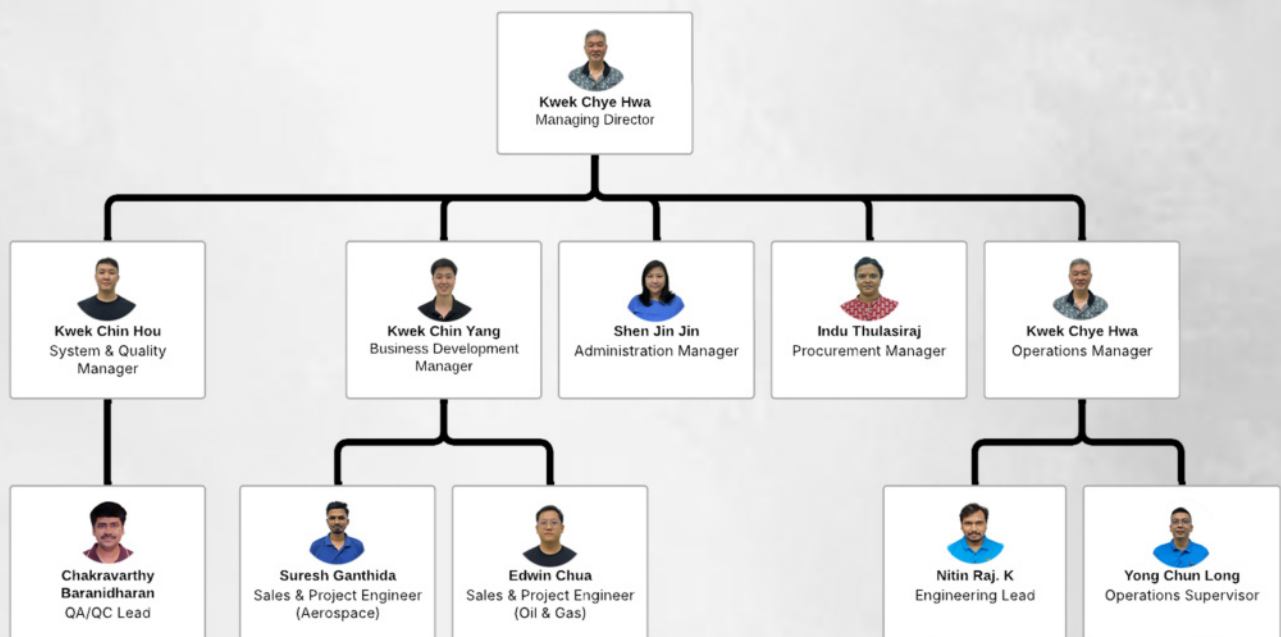
About Us

KY Sub-Assembly Engineering Pte Ltd was founded in 1994 by the current Managing Director, Mr Kwek Chye Hwa. The company specialises in low-volume, high-mix manufacturing for the aerospace and oil & gas industries. Our capabilities include the design and fabrication of custom-built jigs and fixtures, R&D support and turnkey solutions which include fabrication of precision component to electro-mechanical assembly and testing of complete tools and products.

We are ISO 9001 certified and proud recipient of the 2025 SME 500 Award, reflecting our commitment to our expertise, quality and innovation. With reliable one-stop solutions, we empower our customers to achieve success in their most demanding projects.



Organisation Chart



Our Services

Aerospace Industry

Design, Fabrication & Repair of Custom Jigs and Fixtures
Fabrication of Aerospace Components & Assembly
Reverse Engineering & Obsolescence Recovery Services
Consultancy Services

Oil & Gas Industry

Research & Development Support Services
Electromechanical Assembly Service & Test
Turn-key Solutions



Our Facilities



Image Credit: JTC Corporation

Located within Singapore's advanced manufacturing hub - Jurong Innovation District, our new facility in **Bulim Square** brings machining, assembly, and quality operations under one roof. This connects us to a vibrant network of innovators and suppliers, providing easy access to emerging technologies, collaborative solutions, and greater operational flexibility.

CNC Department

Equipped with advanced multi-axis CNC mills and lathes (including 5-axis) from Mazak, Okuma and Matsuura, capable of up to micron-level accuracy, our skilled operators handle intricate geometries while ensuring tight tolerances, consistent quality, and efficient production.



Grinding Department

Our Grinding Department delivers high-precision finishing with surface and cylindrical grinders, achieving up to micron-level dimensional accuracy and exceptionally smooth surface finishes. Skilled operators ensure every component meets strict tolerances and exacting specifications.

Our Facilities

Manual Lathe & Milling Department

Our Manual Lathe & Milling Department complements CNC operations by providing flexibility for low-volume, one-off, or unconventional parts, offering cost-effective solutions ideal for parts with practical tolerances and helping to speed up overall fabrication time.



QC Department

Our QC Department ensures every product meets strict standards through rigorous inspection and testing. Equipped with a Zeiss Contura G2 CMM, Smart Scope, height master gauges, and other precision tools, we guarantee accuracy, consistency, and reliability across all products before they leave our facility.

Assembly & Testing Department

Our Assembly & Testing Department features ESD (Electrostatic Discharge) workstations for precise electro-mechanical assembly and a dedicated, separate testing area capable of supporting a wide range of test setups, including pressure and functional testing, to ensure every tool and product meets strict quality and performance standards.



Customised Aerospace Tools, Jigs & Fixture



Oil & Gas Products

Downhole Electromechanical Pipe Cutting Tools



Major Clientele



Aerospace Industry



BARNES
AEROSPACE



GE VERNOVA

Honeywell



ST Engineering
Aerospace

Oil & Gas Industry

HALLIBURTON

OILFIELD SERVICES & SUPPLIES

Assuring Our Best Services At All Times

Customer Testimonial

We are glad that KY has pledged its continual support to be our R&D prototyping and electromechanical assembly turnkey vendor in Singapore - this **eliminates the considerable costs and lead time** of having to transfer knowledge to US and having them build in US

- Neo Aik Jin
Director, Halliburton Far East



We were having consistency issues with the manufacturing process of one of our parts which lead to high scrap rates, which were extremely costly. KY Sub analysed our problem and came up with a fixture design that was able to **reduce scrap yield and improve cycle times** substantially. KY Sub has **proven their competency by successfully handling similar issues for us many times** over the past year.

- Chia Kam Fei
Manufacturing Manager - Engineering, Honeywell Aerospace Singapore



K Y's proficiency was demonstrated through a technical problem we were experiencing with our customer, Qantas. The customer was experiencing removals of their aircraft Pre-coolers due to a loose bearing installed in the mounting flange. The process to removing the bearings, reworking the flanges, and reinstalling of the bearing were estimated to be **\$US3000 per unit**. We engaged Mr Kwek, and he brainstormed with both our team and the customer's engineer and developed a **unique solution** that allowed us to remove the bearing without damage to the mounting flange. This resulted in significant reduction of repair turn-time and reduced the cost to **US\$150 per unit**.

- Jagdish Singh
Lean Master, Honeywell Aerospace Singapore



I want to thank you for acknowledging the urgency of this case and for your **immediate attention**. This was helping us tremendously and is what I define as a very **professional and healthy business relationship**.

- Giodo Gravenkoetter
COO, Airfoil Services





Have a project in mind or need a reliable manufacturing partner?

Let's make it happen together.

Reach out to KY Sub-Assembly Engineering for a solution that fits your needs.

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