



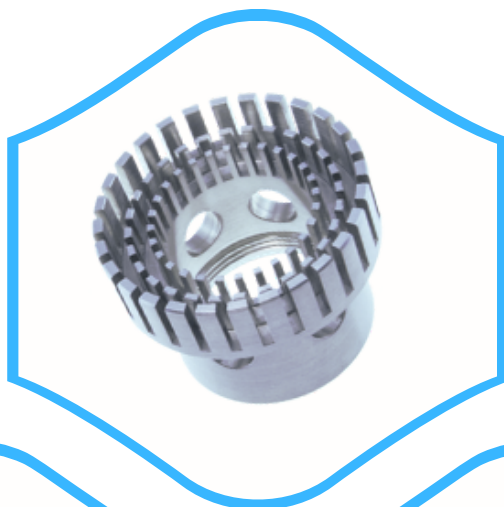
SCX Manufacturing Sdn Bhd

(796602-D)

ISO 9001:2015 CERTIFIED

COMPANY PROFILE

Precision Manufacturing Specialist

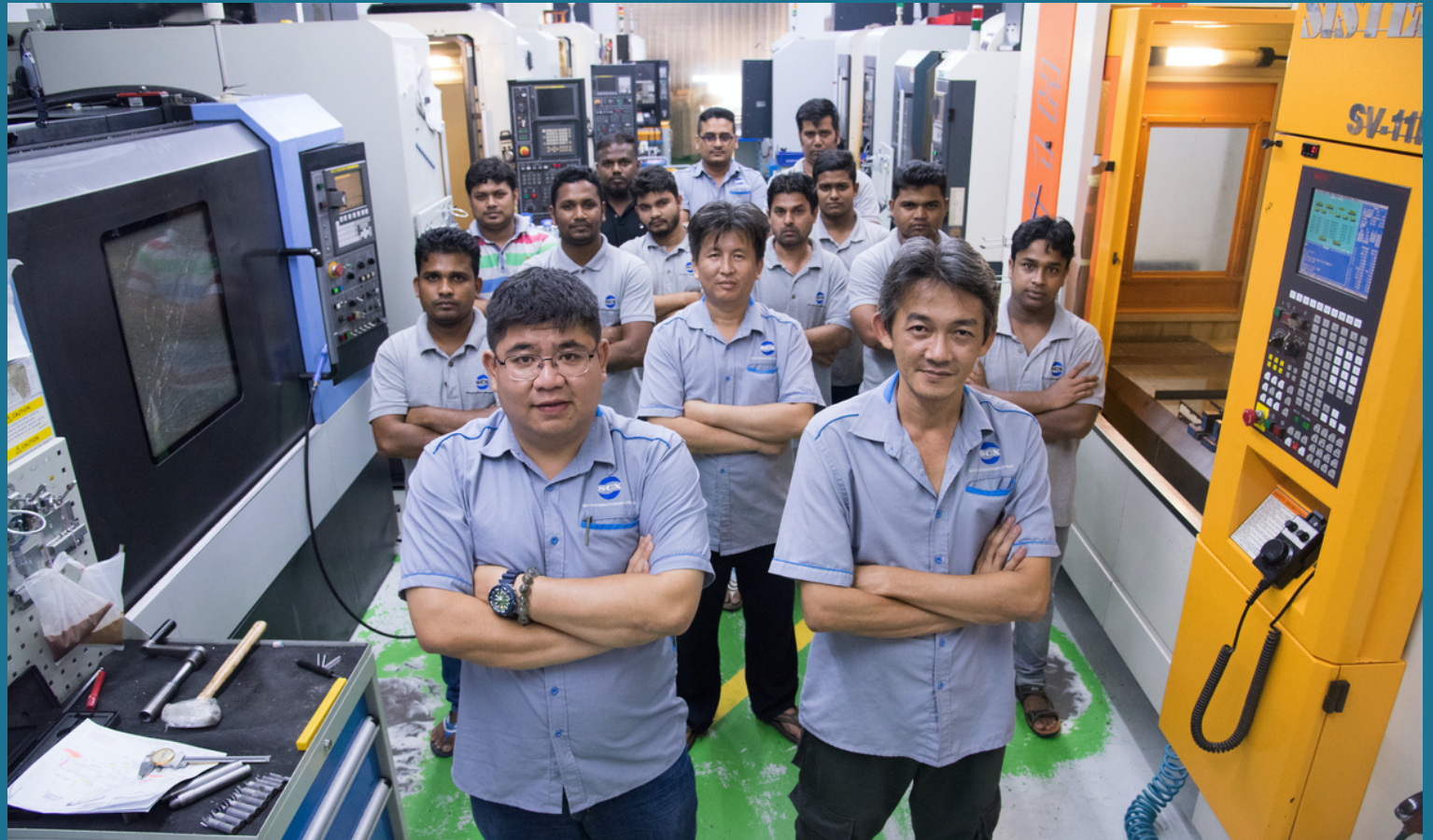


EXCELLENCE THROUGH QUALITY

About Us



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26,500 sqft

Distributed across 5 specialized, interconnected plants

Total Production Footprint

85

Expert Machinists, Programmers, & Quality Engineers

Advance Engineering Workforce

48

CNC & Turning machines

Total Active Fleet Counter

7

QC machines

Quality Management System



SCX Manufacturing provides core solutions in precision turning and milling, specializing in:

- Semiconductor front-end and back-end parts machining
- Medical equipment components machining
- Robotic parts machining
- Aerospace parts machining

The company is committed to provide a competitive edge to its customers through Timely, Innovative, Defect-free Products and Outstanding Service Driven by a Culture of Systematic Continuous Improvement.

Call now (+603) 8069 1023 or Email us: sales@scxmfg.com

OUR HISTORY



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2010 

SCX BUSINESS COMMENCEMENT

Founded SCX Manufacturing Sdn Bhd with a factory space of 1,400 sqft, 6 employees, and an initial fleet of 2 CNC Milling & 2 CNC Turning machines.

2012 

CAPACITY EXPANSION (100% GROWTH)

Production floor increased to 4,200 sqft with 10 employees. Extended capabilities to 4 CNC Milling, 2 CNC Turning, 1 Manual Milling, and 1 Grinding.

2016 

SUPPLIER OF THE YEAR AWARD



Formally recognized and awarded "Supplier of the Year" by FRENCKEN MECHATRONICS (M) SDN BHD for flawless quality and delivery metrics.

2017 

FLOOR SPACE SCALE-UP (50% GROWTH)

Production floor increased to 6,000 sqft with 25 employees. Total equipment grew to 9 CNC Milling, 4 CNC Turning, and 4 dedicated Quality Control setups.

2020 

HIGH-VOLUME TRANSITION (78% GROWTH)

Operational footprint reached 12,000 sqft with 45 employees. Fleet expanded to 16 CNC Milling, 4 CNC Turning, and 4 high-precision QC systems.

2021 

INFRASTRUCTURE LEAP (50% GROWTH)

Consolidated production across an expansive 26,500 sqft footprint with 85 employees. Fleet scaled to 32 CNC Milling and 8 CNC Turning centers.

2025 

SIMULTANEOUS MULTI-AXIS CAPABILITY

Acquisition of a MAZAK C600 5-Axis center and a HAITECNC 3-Axis center (3000mm bed) alongside a BAOFENG BF-1880LP CNC to master large-format engineering and complex, high-mix component profiles.

2026 

SYSTEMIC QUALITY STANDARDIZATION & ACCELERATED TURNING CELL

- Formally achieved international ISO 9001:2015 Certification.
- Scaled high-mix turning capabilities via advanced twin Mazak Turning Centers: Mazak QT-Primos 150DG & QTE-200MY SG.
- Deployed the high-speed Baofeng BF-600TP Drilling & Tapping production line.



Vision

To be the Leader in High Quality Precision Engineering Parts Manufacturer in Asia.

Mission

To be the Preferred Customers' choice by achieving "Total Customer Satisfaction" through Quality, On-time Delivery and Competitive Pricing.



Production Division & Technical Capabilities

CNC Milling & High-Speed Tapping Department

CNC milling is the foundational core of SCX Manufacturing's precision ecosystem. By pairing an elite tier of multi-axis machining infrastructure with rigorous programming, we deliver high-integrity components optimized for the world's most demanding supply chains.

Our production floor is strategically segmented into dedicated cells to handle everything from oversized structural frames to complex, high-velocity miniature arrays.

Multi-Axis & Production Capabilities

- **Simultaneous Multi-Axis Machining:** Powered by advanced 5-Axis Full Contouring (including the Mazak C600 and Sister SV-11H) and 4-Axis Full Contouring configurations, allowing us to machine intricate, highly complex geometries in a single setup to eliminate stack-up errors.
- **High-Volume Automation:** Integrated Horizontal Machining Centers equipped with automated Pallet Changers ensure continuous, steady-state production runs with minimized setup bottlenecks.
- **Large-Format & Heavy Engineering:** Anchored by our massive Haite CNC (3000mm bed travel) and the Baofeng BF-1880LP (1800mm X-axis travel), giving us the rare capacity to process oversized engineering architectures, large semiconductor vacuum chambers, and heavy mold bases.
- **[NEW 2026] High-Velocity Tapping & Drilling:** The integration of the ultra-fast Baofeng BF-600TP optimizes high-speed array processing, securing severe cycle-time and delivery advantages for high-mix, volume-intensive robotic and semiconductor sub-plates.



Mazak C600 5-Axis Interior



Baofeng BF-1880LP Bed



NEW: 2026
Baofeng BF-600TP Rapid Cell



Material Mastery & Dimensional Scope

- We engineered our milling division to process raw stock spanning from micro-machined elements starting at 1mm in diameter up to large-scale structural plates. Our programmers operate across an extensive, certified material matrix:
- Advanced Metals: Aluminum (6061 / 7075 / 5083), Stainless Steel (303 / 304 / 316L), Copper, Brass, and Phosphorus Bronze.
- High-Hardness Tool Steels: Tool steels, specialized underhold tool steels, and hardened mold alloys.
- Superalloys & Polymers: Aerospace-grade Titanium, specialized alloys, and advanced engineering plastics including Nylon, Delrin, and high-performance polymers.

The SCX Engineering Edge

- Our highly synchronized team of CNC programmers, tooling specialists, and manufacturing engineers collaborate directly with your technical blueprints. This unified workflow guarantees that even the most intricate, tight-tolerance components are delivered completely defect-free, on time, and strictly compliant with ISO 9001:2015 quality frameworks.





CNC Turning Department

SCX operates an advanced, highly diversified fleet of state-of-the-art CNC turning centers designed to provide holistic, end-to-end manufacturing solutions for global industry leaders.

To aggressively stay ahead of evolving component complexities, we continuously reinvest in high-tier turning architecture. By integrating high-rigidity multi-axis lathes, sub-spindles, and synchronous live tooling, we provide our clients with expanded geometric capabilities, enhanced production capacity, and significantly compressed manufacturing lead times.

Intelligent Turning & Hybrid Mill-Turn Cells

- [NEW 2026] Mazak QTE-200MY SG (Y-Axis Live Tooling): This premium hybrid platform integrates full Y-axis live tooling capabilities. By executing complex turning and off-center milling, cross-drilling, and tapping operations simultaneously in a singular setup, it entirely eliminates stack-up errors and ensures absolute concentricity for intricate components.
- [NEW 2026] Mazak QT-PRIMOS 150 SG (High-Speed Production): An ultra-compact, thermally stable turning cell equipped with an 8" chuck and optimized for high-velocity, tight-tolerance manufacturing. This cell is specifically deployed to handle high-precision, repeatable small-to-medium component runs with maximum efficiency.
- Steady-State Production Lines: Anchored by our robust Goodway (GLS-200 & GCL-2BL) and Hannsa production arrays, delivering high-volume multi-axis turned solutions for cylindrical components up to Max 500mm in length.

Precision Turned Geometries & Materials

Our turning cells are highly adaptable, meticulously processing round, square, and hexagonal bar stock from miniature, tight-tolerance elements up to substantial heavy-duty shafts. We maintain absolute material mastery across:

- High-Specification Metals: Stainless Steel (303 / 304 / 316L), Aluminum (6061 / 7075), Copper, Brass, and high-tensile Phosphorus Bronze.
- Specialized Alloys & Polymers: Aerospace-grade Titanium, hardened tool steels, and engineering-grade plastics including Nylon, Delrin, and high-performance polymers.



Mazak QTE-200MY SG
(Mill-Turn Capacity)



Mazak QT-PRIMOS 150 SG
(Compact High-Speed Production)



The Goodway GLS-200
(The High-Volume Steady-State Line)



Synchronized Manufacturing Mastery

True precision requires more than just advanced machinery. Our highly specialized CNC turning technicians and master programmers work in perfect synchronization to transition complex blueprints into flawlessly executed components. From first-piece validation to final high-volume dispatch, every single turned part strictly adheres to our international ISO 9001:2015 certified quality framework.





Quality Control & Metrology Department

CERTIFIED QUALITY EXCELLENCE | ISO 9001:2015 COMPLIANT FRAMEWORK

At SCX Manufacturing, quality is not a final checkpoint—it is the structural foundation built into every phase of our manufacturing lifecycle. Backed by our official international **ISO 9001:2015 Certification**, our Quality Control department utilizes a climate-controlled metrology laboratory and next-generation inspection systems to validate advanced machining processes.

We execute strict, multi-stage inspection protocols to provide comprehensive First Article Inspection (FAI), in-process monitoring, and final validation approval, ensuring absolute compliance with our global clients' exact Standard Operating Procedures (SOPs).

Advanced Metrology & Validation Fleet

- Sub-Micron Coordinate Metrology: Anchored by dual **Carl Zeiss Contura G2 5-Axis** Coordinate Measurement Machines (CMM), delivering a volumetric accuracy threshold down to an elite $1.8\mu\text{m}$ for high-complexity, multi-axis dimensional verification.
- Non-Contact Vision Systems: Utilizing **Focuz M-Series** Video Measuring Systems to capture high-accuracy, non-contact optical measurements down to $5\mu\text{m}$ for delicate or highly intricate component features.
- Surface Integrity Profilometry: High-precision Surface Roughness Measuring Systems to audit, calibrate, and guarantee severe micro-finish tolerances matching strict medical and semiconductor requirements.
- Digital Calibration & Gauging Arrays: Fully calibrated, high-tier **Trimos (V-Plus & V5)** Digital Height Gauges (up to 700mm capacity) working alongside complete master sets of Pin Gauges, Ring Gauges, Thread Gauges, and Block Gauges.
- Micro-Dimensional Hand Instruments: A full deployment of premium **Mitutoyo** Digital Micrometers and high-resolution Digital Calipers for immediate, verified micro-tolerancing at the production line.

The Zero-Defect Delivery Mandate

By coupling our international quality management systems with a highly analytical team of quality engineers, SCX provides complete traceability and data-backed validation reports. We match the severe audit standards of the world's most protective industrial supply chains, guaranteeing that every single component shipped from our facility is completely defect-free, precision-verified, and completely on time.



Our Machine List



Division / Machine Type	Qty	Manufacturer & Model	Working Envelope / Operational Capacity
CNC Tapping & Drilling	1	Baofeng BF-600TP	High-Velocity, Multi-Hole Matrix Drill & Tap Cell
CNC Turning (Live Tooling)	1	Mazak QTE-200MY SG	Max Dia: 340mm x 535mm [L] + Y-Axis Mill-Turn
CNC Turning (High-Speed)	1	Mazak QT-PRIMOS 150 SG	Max Dia: 250mm x 264mm [L] 8"(Chuck)
CNC 5-Axis Machining	1	Mazak C600	Simultaneous 5-Axis Contouring Machining Center
CNC 5-Axis Machining	1	Sister (SV-11H)	CNC 5-Axis Machining Center
3-Axis CNC Large Format	1	Haite CNC	3000mm [X] x 500mm [Y] x 500mm [Z] Bed
3-Axis CNC Large Format	1	Baofeng (BF-1880LP)	1800mm [X] x 800mm [Y] x 700mm [Z] Travel
Other Active CNC Mills/Turns	36	(Fanuc, Doosan, Goodway, etc.)	Standard production cells supporting ongoing supply contracts
Manual Milling & Grinding	3	CKS / Perfect 618	Auxiliary support tools for tooling and custom fixture prep
TOTAL ACTIVE MACHINES	49	Units Across All Plant Sites	Completely recalibrated and audited fleet total for 2026

Quality Control (QC)	Qty	Brand/Model	Table Size/ Usage Range	Capability (Accuracy, um)
5 Axis Coordinate Measurement Machine (CMM)	2	CARI ZEISS (CONTURA G2)	700mm [X] x 1000mm [Y] x 600mm [Z]	1.8µm
Video Measuring System	2	FOCUZ M SERIES	300mm [X] x 200mm [Y] x 200mm [Z]	5µm
Height Gauge	1	TRIMOS (V PLUS)	H-600mm	5µm
Height Gauge	2	TRIMOS (V5)	H-700mm	5µm
Total Machines	7			

Our Portfolio



SCX Manufacturing is specialised in Precise Machine Parts & Components for semiconductor industries. Materials from SUS, Aluminium, Plastic, Bronze LG2 and Brass. Our attention to detail in all our clients parts & components requirements have gained trusts in the industry.

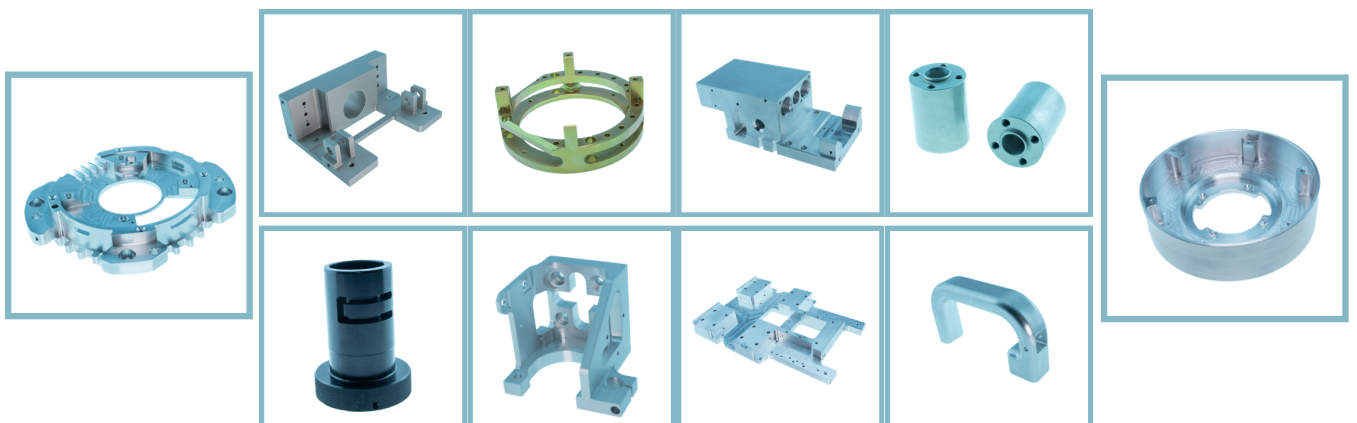
SUS 303 / 304 / 316 L



Engineering Plastic / Bronze LG2 / Brass



Aluminium 7075 / 6061 / 5083 / 6082





Contact us



Scan for website

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Scan for location

