

Company Profile

Precision Connections for Powerful Performance



AECO Manufacturing (M) Sdn. Bhd.

Company Overview

AECO Manufacturing (M) Sdn. Bhd.

is a premier manufacturing partner with over 30 years of deep industry expertise in wire harnessing and cable assembly. Our extensive experience and technical knowledge allow us to offer comprehensive design support while meticulously meeting the most uncompromising quality standards.

Levering the global sourcing network of the AECO Group, we deliver cost-competitive solutions and innovative alternative design options. Our capabilities have diversified into a full suite of services—including wire harnesses, cable assemblies, and advanced component and module assemblies—supporting global clients from initial design through to mass production.

Our Impact

30+

Years of Experience

Decades of specialized knowledge in wire harnessing and custom cables.

200+

Global Clients

Trusted partner to multi-nationals in Asia, Europe, and America.

80+

Skilled Team Members

Dedicated engineering, production, and quality assurance personnel.

100%

Quality Traceability

Full component and process tracking enabled by proprietary MES.

Smart Manufacturing

Custom In-House MES System

AECO utilizes a proprietary Manufacturing Execution System (MES) designed to reduce operational redundancies and maintain real-time visibility across all production phases.



Full Traceability:

Complete tracking from raw material lot to finished product.



Production Planning:

Optimized scheduling and inventory management.



Agile Delivery:

Synchronized shipping and sales logistics.



Specialized Engineering Capabilities



Total Turnkey Projects

Complete end-to-end management from material procurement, component assembly, testing, to custom packaging.



High-Mix Low-Volume

Flexible manufacturing lines optimized for High-Mix Low-Volume (HMLV) specialized equipment requirements.



Custom Mould Development

In-house tool design for custom overmoulds to enhance product lifespan and environmental resistance.

End to End Manufacturing Process



1. Design

Collaborative engineering support to optimize wiring layout, connector selection, and manufacturability from concept stage.



2. Development

Rapid prototyping, sample validation, and customized tooling development to meet stringent industrial criteria.



3. Sourcing

Leveraging AECO's extensive global sourcing network to secure cost-effective and high-spec components.



4. Industrialisation

Mass production setup with automated crimping, overmoulding, and 100% inline electrical testing.

Modules & Customizations



Integrated Mechanical & Electrical Sub-Assemblies

Beyond standalone wire harnesses, AECO specializes in value-added modular integration to streamline our customers' assembly lines.

-  **Power Supply Units:**
Custom integrated power distribution modules.
-  **Testing Modules & Jigs:**
Precision testing sub-assemblies.
-  **Waterproof Modules:**
Over-moulded weatherproof connectors.
-  **Custom Enclosures:**
Metal & plastic part fabrication & integration.

Core Interconnect Solutions



Over-moulding Cables

Enhanced strain relief and IP-rated dust/water protection for heavy-duty environments.



Complex Harnesses

Multi-branch wire harnesses designed for robotics, industrial equipment, and power distribution.



Panel Mount Units

Secure, convenient panel integration cables and modular power supply chassis assemblies.



Fine Pitch Cable Assembly

Precision-assembled fine pitch cables for compact, high-performance electronic applications.



Coil Cable Assembly

Compact and flexible cable solutions for industrial and electronic applications.



Strain Relief

Durable cable assemblies with enhanced protection against bending and cable stress.

Quality is designed into process

Certified Quality System



ISO9001:2015



UL Recognized

- Hi-pot testing

- Open / short detection

- Insulation resistance

- Crimp-height inspection

- Continuity testing

- Orientation verification

- Capacitance resistance

- Push-pull force



A Companies we work with

ECLATEC

SAFRAN

SANMINA

KMWE

opulent

IDEMIA
augmented identity

ASTEELFLASH
YOUR EMS PARTNER

ViTrox

BOSCH

APPLIED
ENGINEERING

DELTA
DORE

EMERSON

TECAN

GARDENA

ALYSIUM

acrelec

quadient

Benchmark

Puretec
PERFECTING WATER

Honeywell

CARRUS
Gaming

TRAXENS
connecting the dots

VENTURE

AMETEK

oce
Printing for
Professionals

Global Reach & Diversification

Exporting Solutions Worldwide



AECO Manufacturing serves an expansive network of international clients across key technology hubs in Asia and Europe, offering localized support and global logistics capability.

Get in Touch With Us

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