



COMPANY PROFILE

Delivering Only The Best

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OUR COMPANY

Speedtrack Construction has vigorously embarked into the high technology industry, specializing in the design and build of strong floors; and the supply and installation of advanced laboratory instruments and equipment.

Our achievements and successes are built upon the close collaborations we have established with credible suppliers, reliable brands and a solid teamwork with multi-disciplinary teams.



VISION

To be the preferred service provider for the high-tech industry offering innovative and competitive range of diagnostic testing products, systems and services.

MISSION

To provide and supply reliable and high quality high-tech diagnostic testing products and services for the establishment of efficient and scientifically advanced laboratories.

Business Philosophy

Our business philosophy is based on our firm conviction on delivering only the best. This guiding principle has been exemplified by our consistent achievement of quality installations with outstanding workmanship and client satisfaction.

PROJECT HIGHLIGHT

One of the high-tech projects we were involved in is the construction of a 20-Hertz Dynamic Rated 14m x 11m Strong Floor including the supply of equipment for the Heavy Structure Laboratory (HSL) of the Civil Engineering Department, **University College of Technology Sarawak (UCTS)**. This HSL is considered as one of the largest facilities of its kind in Sarawak.

The HSL is an advanced laboratory for conducting experimental tests in the fields of civil and structural engineering. The facility is designed to support teaching and learning (T&L), research and development (R&D), and will be able to provide consultancy services such as specimen testing services for various local industries engaging in a wide range of development projects.

Currently, the HSL can be used to test specimens up to 12m long, 3m wide and 1.2m deep in bending or torsion; and 2m high columns in compression under static or dynamic loading. The HSL is designed to be expandable to accommodate future testing and research requirements with distributed anchoring points at 500mm grid for loading frames positioned anywhere within the strong floor. Each anchor point is rated to 30-ton pull and 5-ton shear capacity.





Heavy Structure Lab

The Heavy Structure Laboratory (HSL) comprises of the following high technology instruments and laboratory equipment.

- ▶ 20-Hertz Dynamic Rated Strong Floor
- ▶ Multi-Channel Servo-Hydraulic Closed-Loop Controller
- ▶ High-Flow Low-Noise Hydraulic Power Supply
- ▶ Static Hydraulic Actuator (65-ton capacity in compression, 45-ton in tension)
- ▶ Dynamic Hydraulic Actuator (50-ton capacity in both compression and tension)
- ▶ Universal Testing Machines (60-ton and 200-ton capacities with accessories for tensile testing of reinforcement bars up to 50mm diameter and 3-point bending tests)
- ▶ Hydraulic Jack Systems (30-ton and 90-ton capacity)
- ▶ Single and Double Portal Frames
- ▶ Dynamic Data Logger (4 channels)
- ▶ Multi-Channel Data Logger (10 channels expandable to 40 or more channels)



Design, Build & Supply State-of-the-Art Heavy Structure Lab



Test Specimen

Beams, columns, walls, slabs, frames and construction materials such as metals, concrete, polymers and so forth.



Test Application

Simulate specimen response and capacity under various types of loads such as permanent, seismic and fatigue loads up to 20Hz, vertically and horizontally.



Special Feature

Actuator system allows two actuators to operate separately or concurrently, i.e., synchronized test on one specimen or unsynchronized test on two different specimens at same time.



PROJECT TEAM

We have experienced cross-functional and multi-disciplinary teams, involving professionals such as managers, estimators, planners, designers, technicians and engineers to provide the necessary expertise and services to meet the requirements of your sciences and high-tech laboratories.

Project Coordination

From site surveying and evaluation to preparation of technical drawings, cost estimation, organizing of resources, project scheduling, design process, quality control and procurement management.

Construction Management

Handle numerous phases in the implementation and construction of small and large-scale projects, be it to build, design and/or supply of various sciences and high-tech or heavy structure laboratories.

PRODUCTS & SERVICES

Laboratory Furniture & Equipment

We represent and work closely with well-established suppliers and service providers specializing in quality laboratory furniture systems, offering the latest laboratory equipment and solutions to meet the increasing demands of technology-based industries encompassing industrial, educational, medical and petrochemical facility. We provide design, project coordination and management, installation, testing and continuous commissioning.

Complete Lab Furniture System

- ▶ Worktops
- ▶ Under Bench Cabinets
- ▶ Storage Cabinets
- ▶ Fittings
- ▶ Safety Equipment
- ▶ Fume Cupboards
- ▶ Balance Tables
- ▶ Reagent Racks
- ▶ Lab Stools
- ▶ Lab Accessories





01 Lab Design & Consultancy

- ▶ Setup of new laboratory
- ▶ Upgrading/renovation of existing laboratory
- ▶ Provision of civil works (plumbing, electrical, ceiling, flooring, partition)



02

Lab Furniture Customization

- ▶ Custom-made modular system
- ▶ Complete system with worktops, frame structure, cabinets and accessories



03

Lab Equipment & Apparatus

- ▶ Provide total solution for laboratory requirements
- ▶ Inclusive of consumables



PRODUCTS & SERVICES

Measuring Instruments

We collaborate with reputable manufacturers of strain gauges, measuring instruments and transducers developed using distinctive technologies that ensure the quality, safety and improved efficiency of their products.



Handheld
Data Logger

A compact handheld digital data logger that collects measurement data at several field sites for later data processing. The unit has gauge and insulation resistance measurement functions to also check strain gauges and transducers. It is splash waterproof for outdoor use.



Single
Data Logger

An all-in-one single static strainmeter used for measuring strain gauges, strain gauge transducers, DC voltage and temperature.



Multi-Channel
Data Logger

A top-of-the line data logger combining high speed, high accuracy and high functionality. The unit has 30 built-in channels for measuring strain gauges, strain gauge transducers, thermocouples, platinum resistance thermometer, DC voltage and so on.



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