



HERCULES STRUCTURAL SYSTEMS

Bridge Construction Equipment Overhead Crane Gantry Crane Tyre Trolley Straddle Carrier

HERCULES STRUCTURAL SYSTEMS (HSS) is a division of Hercules Engineering (SEA) Sdn Bhd specializing in bridge construction equipment such as Form Traveller, Launching Gantry, Segment Lifter, Beam Launcher, etc. Apart from that, HSS also carries other products like Industrial Crane, Gantry Crane, Tyre Trolley, Straddle Carrier, etc. as well as doing steel fabrication and machining.

HERCULES FORM TRAVELLER

Form Traveller is widely used in the world for the construction cast-in-situ of balanced cantilever bridges. The form traveller can be customized to meet clients' requirements and designed to comply with international codes. The equipment is self launching with back launching option for dismantling.



HERCULES LAUNCHING GANTRY

Launching Gantry is used in the erection of precast segmental viaducts for span by span and balanced cantilever methods of construction. The crane and steel structure are designed in accordance with FEM 1.001 and international codes respectively. The self launching gantry is suitable for both straight and curved bridge construction.

HERCULES BEAM LAUNCHER

Beam Launcher is used in the erection of precast beam bridges for span by span method of construction for precast beam girders like U-beam, T-beam, I-beam, etc. The crane and steel structure are designed in accordance with FEM 1.001 and international codes respectively. This self launching beam launcher is suitable for bridge construction over river, valley or highway.



HERCULES SEGMENT LIFTER

Segment Lifter is used in the construction of precast segmental balanced cantilever bridges. The crane and steel structure are designed in accordance with FEM 1.001 and international codes respectively. The self launching segmental lifter is launched via hydraulic system which gives a safe launching for the equipment.





HERCULES GANTRY CRANE

Gantry cranes for outdoor and indoor types are designed in compliance with FEM 1.001 and/or other international codes. The specifications are customised to clients' requirements.

HERCULES OVERHEAD CRANE

Double girder and single girder overhead cranes for outdoor and indoor types are designed to clients' requirements.



STEEL FABRICATION

Hercules's fully integrated manufacturing facility is capable to execute all range of quality production using modern machineries and techniques. Our production works are carried out in accordance with procedures and inspection test plans that incorporate systematic quality assurance. We also provide custom-designed steel fabrication and steel machining.

HERCULES STRADDLE CARRIER

Straddle Carrier offers a solution for the handling of bulky loads in open, enclosed and confined areas. Compared with normal gantry crane running on rails, straddle carrier offers the flexibility and manoeuvrability as it can travel longitudinally, laterally and diagonally as well as rotating 90° at point of origin. The specifications are customised to clients' requirements.



HERCULES TYRE TROLLEY

Tyre Trolley is designed for transporting precast concrete or steel girders. It can be designed in modular or non-modular forms. The specifications are customised to clients' requirements.

SPECIAL ENGINEERING SOLUTION

Special engineering solution is provided to solve difficult beam installation conditions such as low headroom due to the presence of viaduct on top of the span to be erected.



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PROJECT REFERENCE:



- Independent Deepwater Petroleum Terminal, Malaysia
Supply of Beam Launcher and launching team for the erection of 2km long main trestle jetty



- Princes Viaduct Project, Turkey
Supply of Form Traveller for the construction of balanced cantilever bridge



- Klang Valley MRT Project, Malaysia

Supply of Form Traveller for the construction of balanced cantilever bridge



- Klang Valley MRT Project, Malaysia

Fabrication and installation of temporary stability support for the casting of hammerhead



- Klang Valley MRT Project, Malaysia

Fabrication of special portal frame crane for erection of precast beams at station



- Kuala Lumpur Monorail Project, Malaysia

Jacking of guideway beams for replacement of bearings