

kit cranes

R Stahl, the Germany-based material handling technology company, says that it has overcome the problems and costs incurred from transporting heavy and bulky crane bridges overseas with its new range of kit-form overhead travelling crane packages.

The various kit forms are available for cranes with lift capacities ranging from 2 to 10 tonnes, and include the hoist gear, end carriage and all electrical fittings required to assemble crane bridges to a maximum width of 23 metres. The crane bridge itself has been excluded from each kit, allowing customers to turn to local suppliers for suitable beams and sheet steel panels. R Stahl does, however, supply the basic design drawings required to produce the bridge.

The bridge design of cranes up to 12 metres bridge span are based on IPBI (HE-A) standard profile, while those over 12 metres are constructed to a welded box girder design, as becomes mandatory in some markets when 12 metres is exceeded.

Single-girder crane kits are currently available for 2-, 3.2-, 4-, 5-, 6.3-, 8- and 10-tonne capacity units with spans ranging from 6 to 23 metres and lift heights from 6 to 10 metres. Hoist speeds vary from 4/0.6 to 7.5/1.5 metres per minute.



R Stahl says that a 25-tonne capacity double-girder kit will be available later in the year with a varying span from 6 to 22 metres, lift heights ranging from 6- to 10 metres and hoist speeds from 3.2/0.5 to 7.5/1.5 metres per minute. All kits use standard calculations, connections, easy to obtain materials, continuous load monitoring technology and various other safety features.



perfect motion

Danaher Motion has launched a new range of electromechanical actuation products for use with construction vehicles and against the use of alternative hydraulic solutions. The actuators in most cases comprises a compact package an electric motor and gearing that drives a ball, or lead, screw, and a lift arm that is installed in the same way that a hydraulic cylinder would be, using a clevis or trunnion mountings. Other features, such as positional feedback can also incorporated into each package, while a ball and screw is used to convert rotary to linear motion.

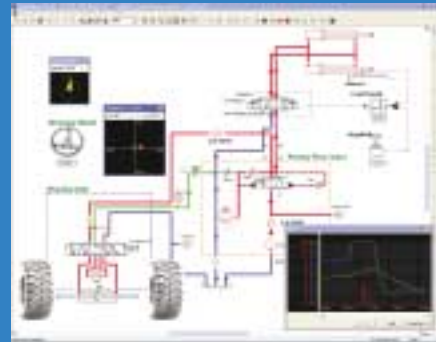
Danaher says that the advantages of electromechanical actuation over the use of hydraulic systems include reduced cost and complexity, a reduced risk of hydraulic fluid contamination and the ability to run various functions without the machine's engine running, thus, reduced energy consumption.

circuit training

Famic Technologies of Quebec, Canada, has launched the latest version of its Automation Studio circuit design simulation and project documentation software for mobile hydraulic applications. Automation Studio has been designed to replicate fluid power systems, such as hydrostatic transmissions, power steering and load sensing pumps, and acts a key aid in the design, training and troubleshooting of hydraulics, pneumatics and electrical systems/circuits.

By simply dragging and dropping symbols from the software's libraries onto the workspace window, users can design circuits of varying complexity. Once the circuit has been drawn, the simulation mode shows valves shifting positions, moving cylinders and the status of

changing switches, while varying fluid pressures are indicated by colour changing fluid lines. Plotter functions can be added to monitor variables such as speed, acceleration, flow and position, display trends and store numerical data.



Simulation models can also be designed for servo and servo proportional valves, variable displacement pumps, proportional pressure regulators and flow controls.

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