

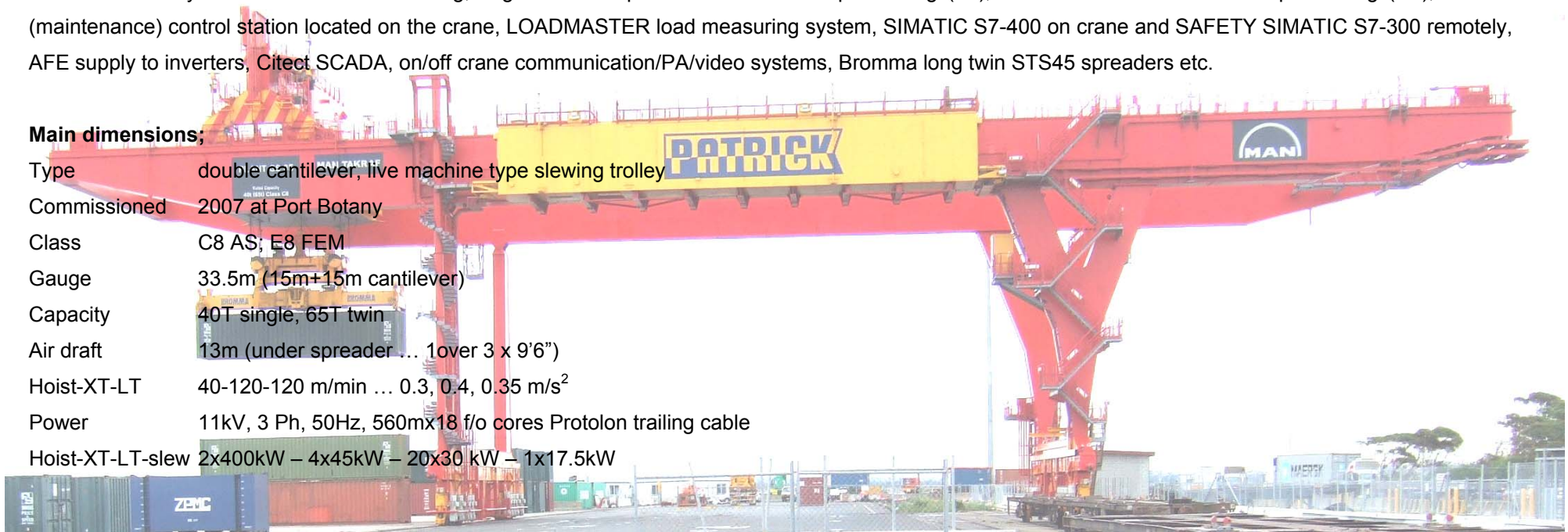
EXPRESSIONS OF INTEREST
AUTOMATED RAIL MOUNTED GANTRY CRANES
PORT BOTANY AUSTRALIA

Expressions of interest are invited for the acquisition and removal of five (5) Automated Rail Mounted Gantry Cranes from the Patrick Port Botany terminal, Sydney Australia. The cranes are designed by MAN-TAKRAF for a utonomous and semi-autonomous handling of road/train/straddle/stack containers with SIEMENS as electrical/control/software systems designer/integrator and major component provider with all other critical crane components of European origin (Wampfler, Bubbenzer, Flender, Hubner, PIAB etc). Semi-auto nomous operation is achieved through utilisation of three (3) switchable remote desktop control stations located within a remote buildi ng linked to the RMG vi a trailing cable (S7-ethernet-f/o-ethernet-safety S7), controllin g all RMG functi ons including camera+comms. Autonomous operation is via SIEMENS crane management system responding to Patrick designed/developed terminal operating system.

The cranes have integrated features such as micro-motion/side-shift/trim-list-skew, x8 rope fall reeving with automatic calibration of rope system, precise spreader positioning camera system+inclinometer, stack anti-collision, remote control area camera systems, spreader landing camera system, SICK laser scanner+servo systems for truck/train loading, in ground transponder+abs. encoder positioning (LT), POMUX linear+abs encoder positioning (XT), manual (maintenance) control station located on the crane, LOADMASTER load measuring system, SIMATIC S7-400 on crane and SAFETY SIMATIC S7-300 remotely, AFE supply to inverters, Citect SCADA, on/off crane communication/PA/video systems, Bromma long twin STS45 spreaders etc.

Main dimensions;

Type	double cantilever, live machine type slewing trolley
Commissioned	2007 at Port Botany
Class	C8 AS; E8 FEM
Gauge	33.5m (15m+15m cantilever)
Capacity	40T single, 65T twin
Air draft	13m (under spreader ... 1over 3 x 9'6")
Hoist-XT-LT	40-120-120 m/min ... 0.3, 0.4, 0.35 m/s ²
Power	11kV, 3 Ph, 50Hz, 560mx18 f/o cores Protolon trailing cable
Hoist-XT-LT-slew	2x400kW – 4x45kW – 20x30 kW – 1x17.5kW



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