

Materials Handling Systems MV - Wunma Transfer Vessel



The MV Wunma is a 5,100 DWT self loading / self unloading transfer vessel to transport lead and zinc concentrates from Karumba (QLD) to export vessels anchored in the Gulf of Carpentaria. The system has a rated throughput of 2000 tonnes per hour. (maximum handling rate 2500 t/hr - Vessel length 110m, beam 21m, draft 3.8m, speed 9 knots)

BMT WBM were responsible for the materials handling plant design, electrical and controls systems design, design of the enclosure for the cargo hold and design of the ventilation and dust control systems. BMT WBM also assisted in the erection supervision in China and commissioning.

The materials handling plant design included the mechanical, structural and electrical details for 7 conveyors, a bucketwheel reclaimer, loading hopper, load distributing gantry and discharge boom.



The BMT WBM project team worked closely with PASMINGCO and STS, the vessel designers, to develop the final design. Over 500 mechanical, structural and electrical & controls drawings were produced for the design.

The MV Wunma received an IEAust Excellence award for mechanical design.

