

Convention Centre (Hong Kong)



Project description

Construction of the Hong Kong Conference and Exhibition Centre (HKCEC) began in 1988, and includes two main sections on either side of a dock on Hong Kong Island, linked by an atrium spanning the dock. It is planned to construct a third section at a later date, but in advance of this the atrium is being extended to provide an extra 19,400 m² of exhibition space.

Currently, the centre has a total internal rentable function area of 70,000 m². It houses more than 45 international trade fairs every year, and was the venue chosen for the 1st July 1997 handover of the former British Colony to Chinese rule.

Six massive steel trusses, up to 100 m long, support the exhibition floors via hanger columns from above.

mageba scope

The main steel trusses are primarily supported by 12 mageba RESTON®POT bearings ($V_{max} = 206,000$ kN, $H_{max} = 18,200$ kN). Largest bearing weighs 16,300 kg and can take the load the weight of 2 times the Eiffel Tower in Paris.

A RESTON®SPHERICAL bearing ($V_{max} = 63,000$ kN, $H_{max} = 3,500$ kN) featuring ROBO®SLIDE high-grade sliding material supports a central pylon. The choice of type of bearing and sliding material, all materials having much higher bearing capacity than PTFE or elastomer, enabled the size of the bearing to be significantly reduced as desired by the architect.

Highlights & facts

mageba Products:

Type: 12 RESTON®POT,
1 RESTON®SPHERICAL
with ROBO®SLIDE

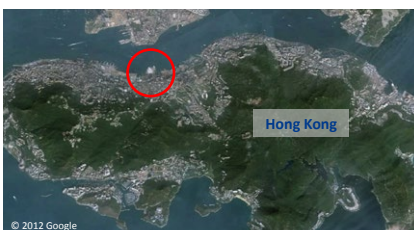
Features: V_{max} 206,000 kN
 H_{max} 18,200 kN
 V_{max} 63,000 kN
 H_{max} 3,500 kN

Installed: 2007

Structure:

City: Hong Kong
Country: China
Built: 1988

The HKCEC is located in Wan Chai North, Hong Kong Island



The third section of HKCEC is built on hanger columns



The HKCEC pot bearings were the largest ever produced by mageba in Shanghai

