In Hong Kong one of the world’s tallest buildings is being constructed, the International Commerce Centre. The construction crane in operation on top of the skyscraper has a DMI motor installed.

In 2010, when the skyscraper is completed, it will become Hong Kong’s tallest building with 118 stories resulting in 484 meters. It will have the third highest roof in the world after the Burj Dubai complex and the Shanghai World Financial Center.

The construction of the International Commerce Centre in West Kowloon, Hong Kong has been going on since 2002. On the top of the building a Favelle Favco crane has been installed. The winch and control system for the crane are delivered by one of ABB DC Motor’s customers in Denmark, Kroll Cranes. The motor drives the main hoist of the construction crane.

The main reason why Kroll Cranes has chosen the DMI is because of the motors wide speed range. This feature saves time since the lifting device descends fast between the lifts. Kroll Cranes has more than 40 years of experience in crane manufacturing. It is one of the leading companies in the field of high capacity tower cranes.

These cranes are suited for construction of power plants, dams, tunnels, large buildings and shipyards. ABB DC Motors help Kroll Cranes to create cranes of high quality with long life and low maintenance.

Conditions
It is important that the construction work holds its time schedule. The crane needs to do as many lifts as possible. This requires a motor with wide speed range and a high reliability.

Since the crane is on top of a skyscraper it is not easy to access. Therefore it is essential that the motor requires as little maintenance as possible.
Solution
The motor operating on the crane is a DMI 250. It was delivered in 2005 and has performed non-stop ever since. The high power output of the motor in relation to its size and a wide speed range has strongly contributed to Krøll Cranes decision to use ABB DC Motor's DMI motor.

Benefits
- Large speed range with constant power gives that the motor is more flexible and can be used in a large working area.
- High performance per weight result in smaller and lighter motors. Low inertia comes with the smaller size and together with high power/high torque it gives fast acceleration.
- Decreased and simplified maintenance.
- High reliability.
- The low inertia combined with high torque is the most important feature in a crane application.