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THREE GORGES DAM, CHINA



An epic undertaking to say the least. Rotec Towerbelts work on the biggest project in the world.

Location:
 Yichang, Hubei Province
 Peoples Republic of China

Time:
 1993-Present

Contractor:
 CTGPC

Concrete Volume:
 27,150,000 m³

Max. Size Aggregate:
 6"

Rotec Equipment Used:
 Towerbelts and Tower
 Cranes, Creter Crane
 CC-200, Long line 30"
 Conveyors, 48" Metering
 System, Augermax
 & Super Swinger SS-75

After over 70 years of planning, designing, and debating, the project finally began in 1993. Since then, it's been full speed ahead. The dam is located on the Yangtze River near the Village of Sandouping, Yichang, Hubei Province.

The structure itself is a gravity type dam with 13 power generators on each side of the spillway for a total installed capacity of 18.2 million kW. When completed the dam will have a crest height of 185 m and a crest length of 3,035 m. In addition to the dam structure, there will be two 5-stage ship locks and a single ship lift. One major challenge for the builder is to supply a huge volume of concrete, and to place it accurately and quickly.

After years of coordination, meetings, and project visits, Rotec proposed a conveyor system that would deliver concrete from three main batch plant areas directly to the active pour locations on the dam. The final conveyor system that was accepted and is in place today includes nine telescopic metering conveyors, six long line feed conveyors, and four Tower Crane/Towerbelts. All are controlled with three state-of-the-art computer control systems.