



Record-breaking textile printer from Big Image built on a customized solution package from Bosch Rexroth.

Strong linear motion technology for impressive backdrops

The „Infinitus“ super printer precisely moves a block that weighs up to 120 kg at speeds of up to 5 m/s in front of a powerful drum to seamlessly apply large-scale images to fabric sheets up to 12 meters wide. The basis for fulfilling this challenging scenario: a 16-meter long, low-maintenance linear motion system from Bosch Rexroth, delivered as a ready-to-install package including control and drive.

The heart of the solution from the Bosch Rexroth modular system consists in a two-part, precisely driven CKR-200 compact module. Bosch Rexroth recommended a belt drive for its client Big Image as a cost-optimized drive solution for long travel paths. Two zero-clearance ball rail systems with high-precision technology (HP) ensure optimal running properties with high load capacity and rigidity. Prior to this extraordinary linear motion project, Bosch Rexroth had carried out all the necessary calculations and created a ready-to-install complete solution made of the appropriate components from their modular system. Even the service comes from one source.

Long service life, low maintenance

According to Big Image, it is not just the high quality, but also the especially long service intervals, low lubricant consumption and simple maintenance of the linear motion system that speak in favor of continuing their cooperation with Bosch Rexroth. For example, the operating personnel can lubricate the compact modules at every point in the stroke range directly at the table part. Due to high product demand and positive experience from the first Infinitus project, Big Image later decided to build a second, structurally identical super printer – with the support of Bosch Rexroth of course.

Challenge

Highly precise linear motion, control and drive technology for the “largest textile printer in the world”

Solution

All-in-one package comprising an extra-long CKR-200 linear motion system plus control and drive technology

Result

“We value the high quality, flexibility and sustainability of the system solutions from Bosch Rexroth, as well as their delivery reliability and service.”
Holger Schulz, Big Image



Solution

- ▶ Complete system based on two precisely driven CKR-200 compact modules
- ▶ Integrated belt drive and ball rail systems
- ▶ Consultation, delivery and service