

HPKM® Column Shoe

Reliable Bolted Column Connections

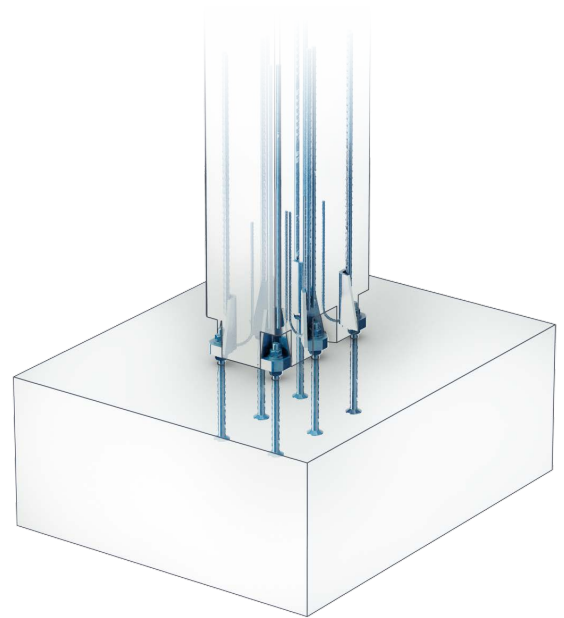
- Full-scale tested & approved connection
- Quick, easy, and cost-efficient erection of the column with minimal crane time
- No bracing & welding during assembly stage
- Easy to design with Peikko Designer® software.

The bolted column shoes' connection was originally invented by Peikko Group. The current generation of Column Shoes was introduced in the late 1980s.

HPKM® Column Shoes are construction products used to create cost-effective, moment-resisting, stiff connections between precast concrete columns and foundations, or between precast concrete columns. The bolted column shoes' connection is at least as rigid as a continuously reinforced cast in place column connection. HPKM® Column Shoes are used together with HPM® Rebar Anchor Bolts.

The Column Connection is made by the Column Shoes and the Anchor Bolts. The Column Shoes are casted into precast concrete columns, while Anchor Bolts are casted into the foundation or another column (columns' splice). On the construction site the columns are erected on the Anchor Bolts, adjusted to the correct level and vertical position. Fixing is achieved by tightening nuts on the Anchor Bolts. The joint between column and structure below should be grouted before loading the column. After grout is hardened, the joint works as reinforced concrete structure.

Peikko Group's HPKM® Column Shoes' connection has been ICC-ES (ESR-4723) approved. It can also be designed according to ACI 318M-19. The HPKM® Column Shoe as steel part casted into concrete is designed according to ACI 318M-19.



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