HS Series slewing ring bearings provide exceptional load and thrust capacity in a surprisingly small envelope. They are similar in size to Kaydon’s popular RK series, but have a rectangular cross-section and less internal diametral clearance. This lets them handle about twice the moment load (up to 139,900 ft-lbs.).

HS Series bearings feature a 4-point contact design, deep groove gothic arch raceways and a maximum ball complement. They are available in sizes from 20” to 47” O.D. (500mm-1,200mm), with internal gearing, external gearing, or no gearing. All have integral seals to protect against contamination and two fittings for lubrication.

For more details and a comparison with the RK Series, please see the other side of this sheet.

Stocking Program
Kaydon stocks many HS Series bearings and all forgings, ready to be machined. Mating pinions (the same used in our RK Series) are also generally available.
The HS Series offers up to twice the static capacity of our RK Series in the same envelope. Although they use the same pinion, gear, and ring hardness, HS and RK bearings have different designs, clearance and mounting arrangements.

**External Configuration** - A rectangular cross-section provides more stiffness than the RK Series, which has an L-shaped cross-section with a mounting flange. The result is about twice the load capacity.

**Internal Configuration** - A deep-groove gothic arch raceway provides four points of contact with the balls, so that the bearing simultaneously supports radial, axial and moment loads. The rectangular cross-section reduces distortion with better load distribution than the RK Series and allows lower internal clearance. These features, combined with maximum ball complement (from using spacers for ball separation), optimize bearing capacity.

**Gearing** - HS Series bearings can be ordered with internal gearing, external gearing or no gearing. The gears are Involute Stub designs with 20° pressure angles, manufactured to AGMA Class Q5, with .015” to .025” allowance for backlash. The HS is also an excellent alternative to an MT bearing when internal gearing is needed.