



NH/NS SERIES LINEAR GUIDES

NSK NH/NS series linear guides offer maximum precision combined with extremely high load ratings. With state-of-the-art advancements in ball groove geometry and ball circulating path, load ratings and rating life have been increased dramatically while attaining smooth and quiet circulation well suited to high-speed applications. Outstanding accuracy ensures precise positioning and optimal movement, every time.

PROVEN BENEFITS

- › Smoother ball recirculation resulting in increased speed capabilities
- › Optimum absorption of impact loads
- › Higher load ratings make it possible to increase service life or downsize
- › Interchangeable - rails and ball slides can be used in many combinations
- › Unlimited rail length as individual sections can be used together
- › Easy assembly

CONDITIONS

- | | | | |
|-----------|--------------|-----------|---------------|
| HL | HIGH LOADS | HA | HIGH ACCURACY |
| Q | LOW NOISE | HS | HIGH SPEEDS |
| M | MISALIGNMENT | | |

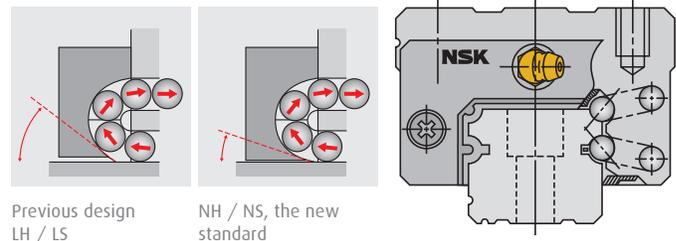
APPLICATIONS

- | | |
|---------------------------|---------------------|
| › Material handling | › Medical |
| › Transfer/gantry systems | › Injection molding |
| › Semiconductor | › Machine tool |

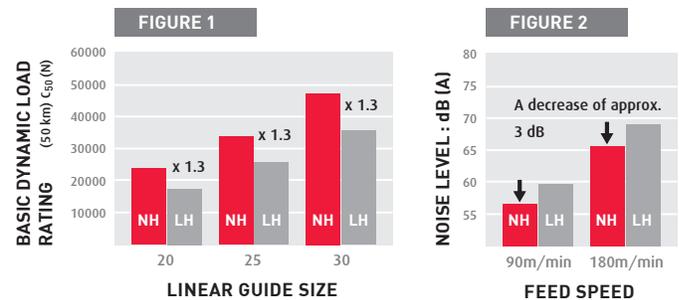
STAY IN MOTION. STAY IN CONTROL.

DESIGN FEATURES

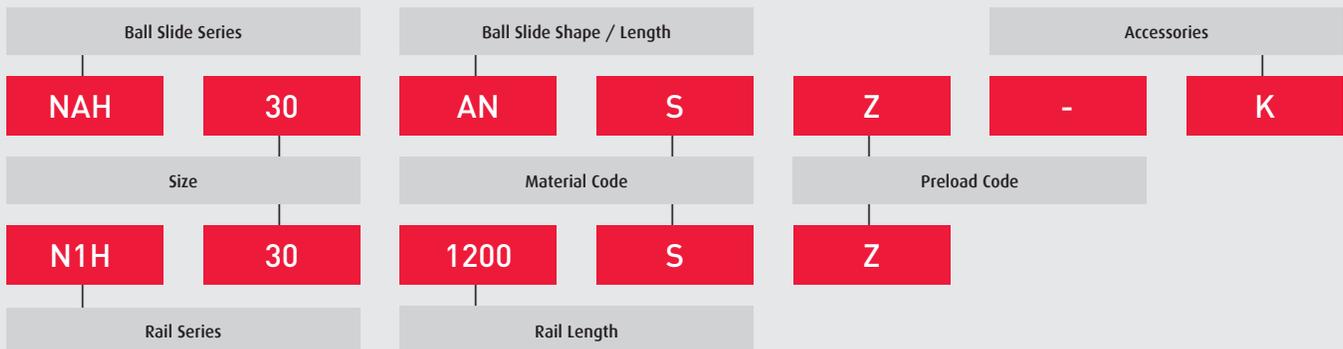
- › Available in standard series NH and compact, low-profile NS series
- › High-speed design as standard
- › Extremely high load rating
- › 2 types of ball slides: square and mounting flange type
- › 3 lengths of ball slide: standard high load, long super-high load, and short medium load
- › Ball slides and rail made with special high carbon steel as standard, with stainless steel option
- › Various accuracy grades
- › Various preload categories
- › Optional extras including: K1 lubrication unit, double seals, protector plates, surface treatments
- › Improved ball circulating geometry contributes to higher attainable speeds and extended life



- › By optimizing the distribution of contact surface pressures, load ratings have increased by 30% (fig. 1)
- › Smooth ball circulation path results in reduced noise and improved performance at high speeds (fig. 2)



DESIGN SPECIFICATIONS



Series	NH: standard, for high to super-high loads NS: compact low-profile, for medium to high loads
Size Range	NH: 15, 20, 25, 30, 35, 40, 45, 55, 65 NS: 15, 20, 25, 30, 35
Ball Slide Shape	Square type (including compact low-profile), flange type
Ball Slide Length	Standard: high load (NH,NS) Long: super high load (NH) Short: medium load (NS)

Material Code	Blank: special high carbon steel (standard) S: stainless steel
Preload Code	Blank: fine clearance Z: slight preload H: medium preload
Accessories	K: K1 lubrication unit K2: 2 K1 lubrication units D: double seals P: protector plate