

Ball Screws for High-Load Drive
High-Speed/Heat-Resistant Specification

MOTION & CONTROL™

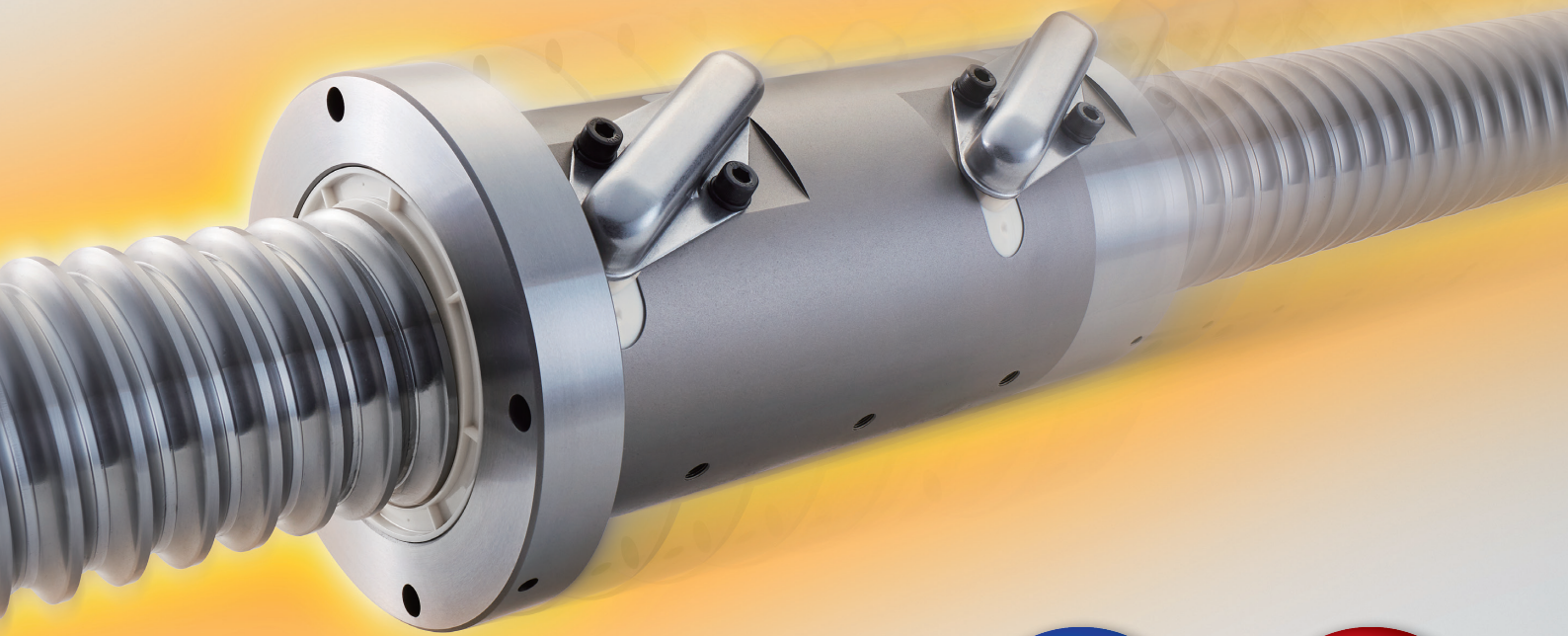
NSK

HTF-SRM Model

Further reduce cycle time with a new lineup tailored to injection molding machines.

New!

Patent Pending



Feed Speed
40%
Higher

Supports
100°C
Momentary
Temps

■ Features

1. Ultra-high speed

Get moving with 40% higher allowable feed speeds than conventional HTF-SRC model and d·n values up to 200,000.

2. Higher heat resistance

A thermally optimized design stands up to continuous operation at 90°C and momentary operation at 100°C.

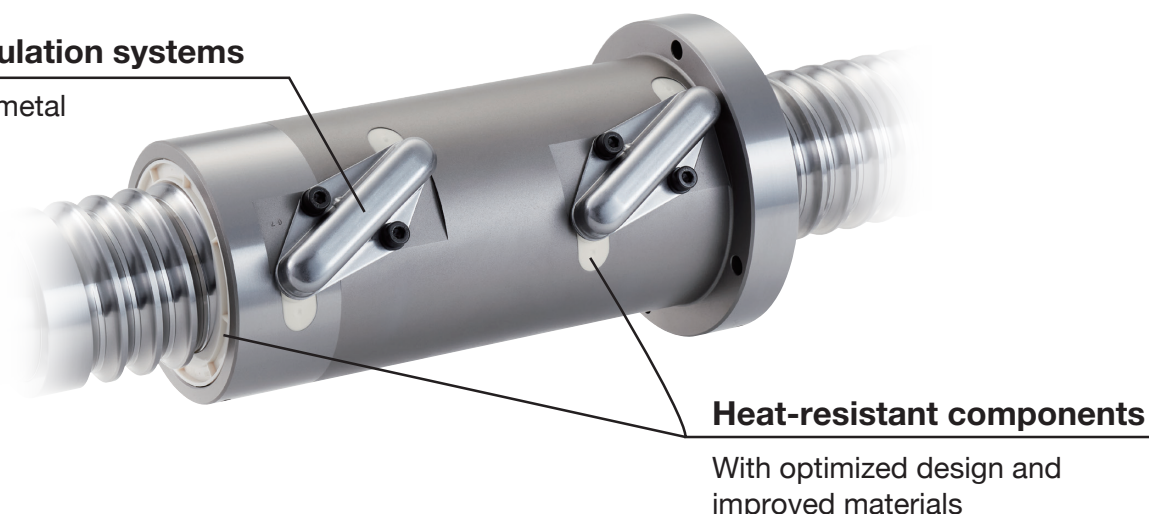
3. Interchangeable mounting dimensions

Easily replace existing HTF-SRC model with no need for costly redesigns.

Structure

SRM ball recirculation systems

Utilizes advanced metal recirculation parts



Allowable d·n Value and Feed Speed

Allowable d·n value $\leq 200\,000$

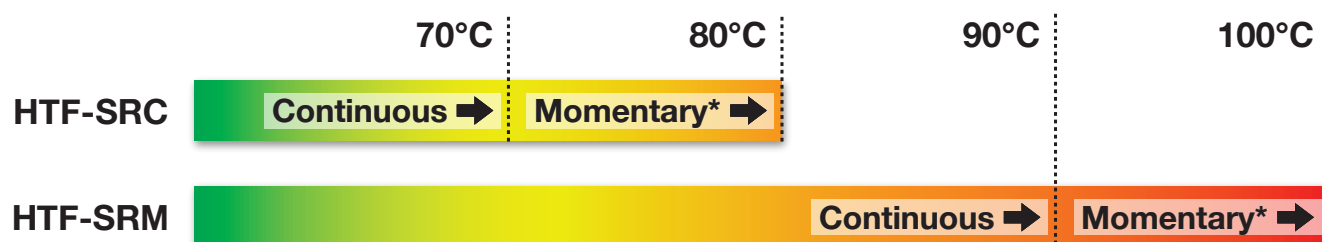
d·n value = Shaft diameter d (mm) × Shaft rotational speed n (min⁻¹)

Shaft Diameter/Lead and Feed Speed Configurations

Shaft Dia. × Lead	Allowable Rotational Speed	Allowable Feed Speed
Φ100×20mm	2000min ⁻¹	660mm/s
Φ100×25mm	2000min ⁻¹	830mm/s
Φ120×25mm	1666min ⁻¹	690mm/s

Maximum Operating Temperature

Temperature at Nut Diameter



*Momentary operation refers to a duration of about 30 min.

Maximum operating temperatures depend on the lubricant used. Contact NSK for details.

For more information about NSK products, please contact: www.nsk.com

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