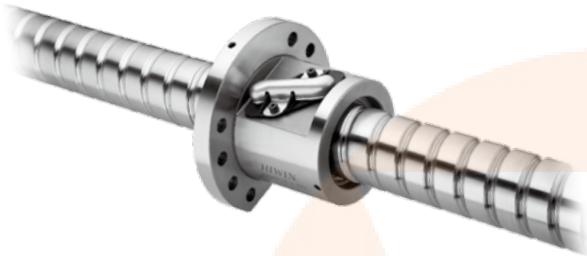
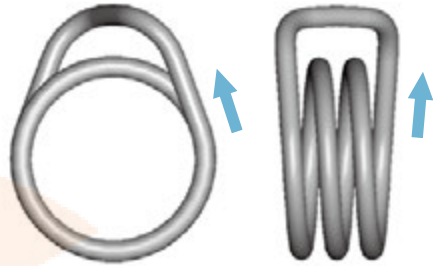


9 Composite Ball Screw

9.1 Super T type series



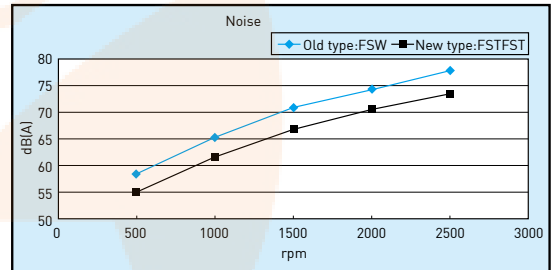
Tangenting to PCD Coordinating to the lead angle



• **Features:**

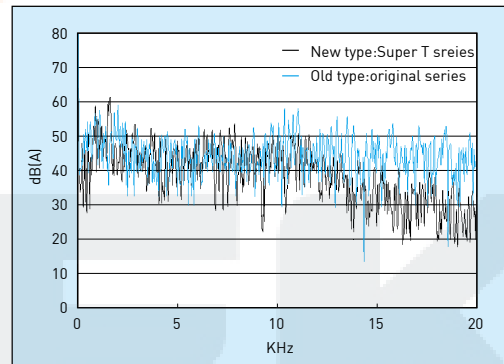
1. Low noise (lower 3~5dB than general series)

Finest design of recirculation can absorb the noise from the impact of balls to reduce the noise level.



2. Qualified tone

Super T recirculating components not only can reduce the sound pressure level, but also efficiently lower the middle and high frequency range than conventional ones, producing no shrill fricative and better sound quality.



3. Low vibration and smooth operation

The tangent recirculation substantially reduces impact force of running balls and the resistance of guiding balls, so the vibration of the nut is gentler and the rotation is smoother and more stable.

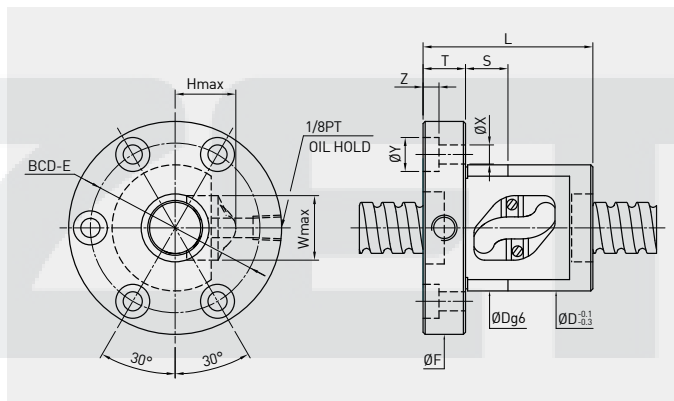
• **Application:**

CNC machinery, precision machine tools, industrial machinery, electrical machinery, high Speed machinery.

• **Design Principles:**

Optimal design of the recirculation path can reduce the noise generated by impact of balls to reduce the noise level. (Note: the DN value should be defined by ball diameters and using conditions)

Specifications of the high speed and low noise ball screw



| Model | Specification | | Ball dia. | Circuits | Rigidity K (kgf/μm) | Dynamic Load C(kgfl) | Static Load Col(kgfl) | Nut | | Flange | | Return pipe | | Flange hole | | | Contact surface | |
|----------|---------------|------|-----------|----------|---------------------|----------------------|-----------------------|-----|----|--------|----|-------------|------|-------------|-----|-----|-----------------|----|
| | Nominal Dia. | Lead | | | | | | D | L | F | T | BCD-E | W | H | X | Y | Z | S |
| R12-5B1 | 12 | 5 | 2.381 | 2.5*1 | 16.2 | 382 | 638 | 30 | 40 | 50 | 10 | 40 | 15.5 | 14.5 | 4.5 | 8 | 4 | 12 |
| R12-10A1 | 12 | 10 | 2.381 | 1.5*1 | 9.8 | 246 | 383 | 30 | 42 | 50 | 10 | 40 | 14 | 14 | 4.5 | 8 | 4 | 12 |
| R15-10B1 | 15 | 10 | 3.175 | 2.5*1 | 21 | 729 | 1290 | 34 | 55 | 57 | 11 | 45 | 21 | 16.5 | 5.5 | 9.5 | 5.5 | 12 |
| R15-20A1 | 15 | 20 | 3.175 | 1.5*1 | 12.5 | 474 | 781 | 36 | 64 | 60 | 12 | 47 | 22 | 19.5 | 5.5 | 9.5 | 5.5 | 12 |
| R20-20A1 | 20 | 20 | 3.175 | 1.5*1 | 16.4 | 539 | 1039 | 46 | 64 | 70 | 12 | 58 | 28 | 18 | 5.5 | 9.5 | 5.5 | 12 |
| R25-25A1 | 25 | 25 | 3.969 | 1.5*1 | 21.7 | 805 | 1624 | 56 | 78 | 82 | 12 | 69 | 34.5 | 20.5 | 6.6 | 11 | 6.5 | 12 |
| R40-8B2 | 40 | 8 | 4.763 | 2.5*2 | 70 | 3634 | 10603 | 74 | 86 | 108 | 16 | 90 | 48 | 29 | 9 | 14 | 8.5 | 15 |