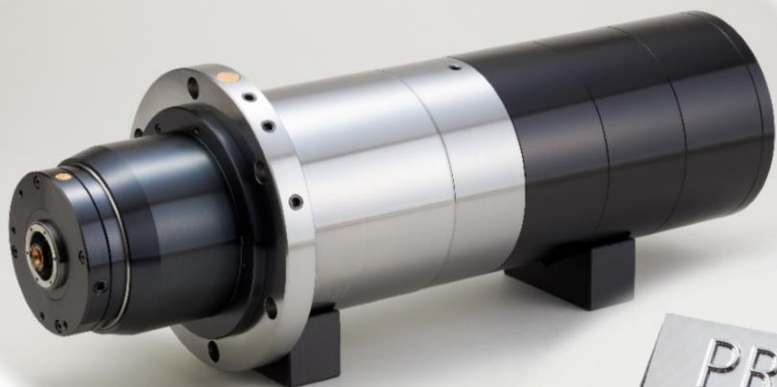


Pursuing Extremely High Precision Contribute to Micro machining



PRECILENCE

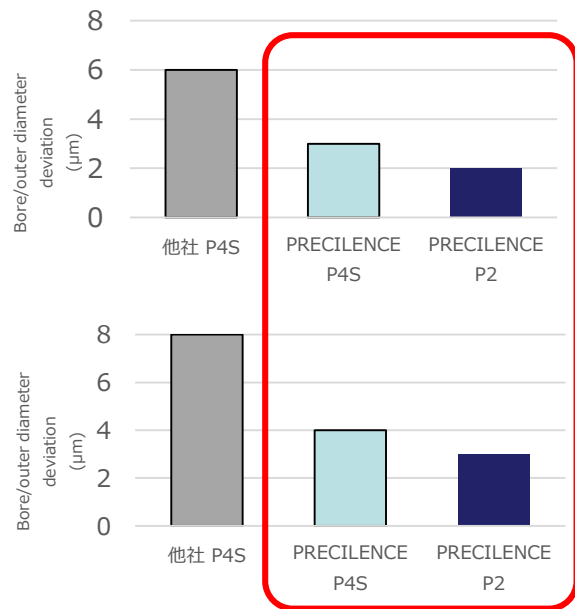
Precision & Silence
Made in Japan

Make it possible with PRECILENCE!

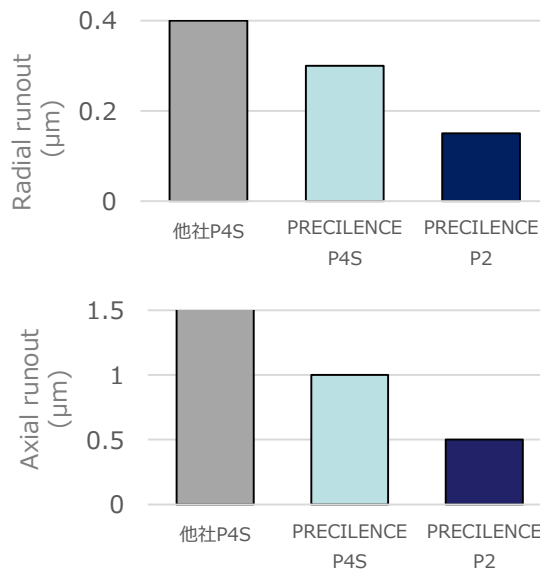
- Improving the efficiency of assembly work
- Improving work surface quality
- Carbon-neutral

1. Improved accuracy

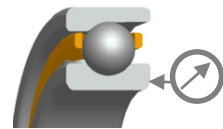
1) PRECILENCE standard



2) Running accuracy (actual value)



Radial runout



Axial runout

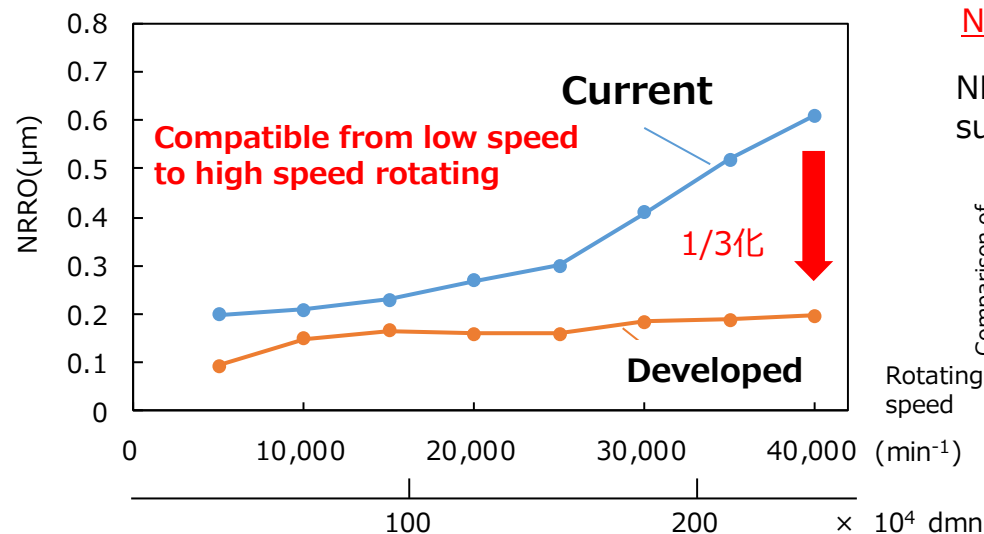
PRECILENCE standard far exceeds other P4S company's !

- Bore and outer diameter less deviation
- ➔ No need selected fit & preload adjustment
- High running accuracy
- ➔ Shorten the time of balance adjustment

Contributes to efficiency of assembly work

2. Improved performance

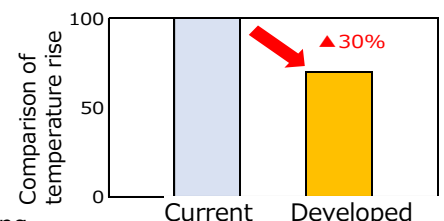
1) PRECILENCE achieved reduction of NRRO and low temperature rising necessary for micro machining



※**NRRO** means

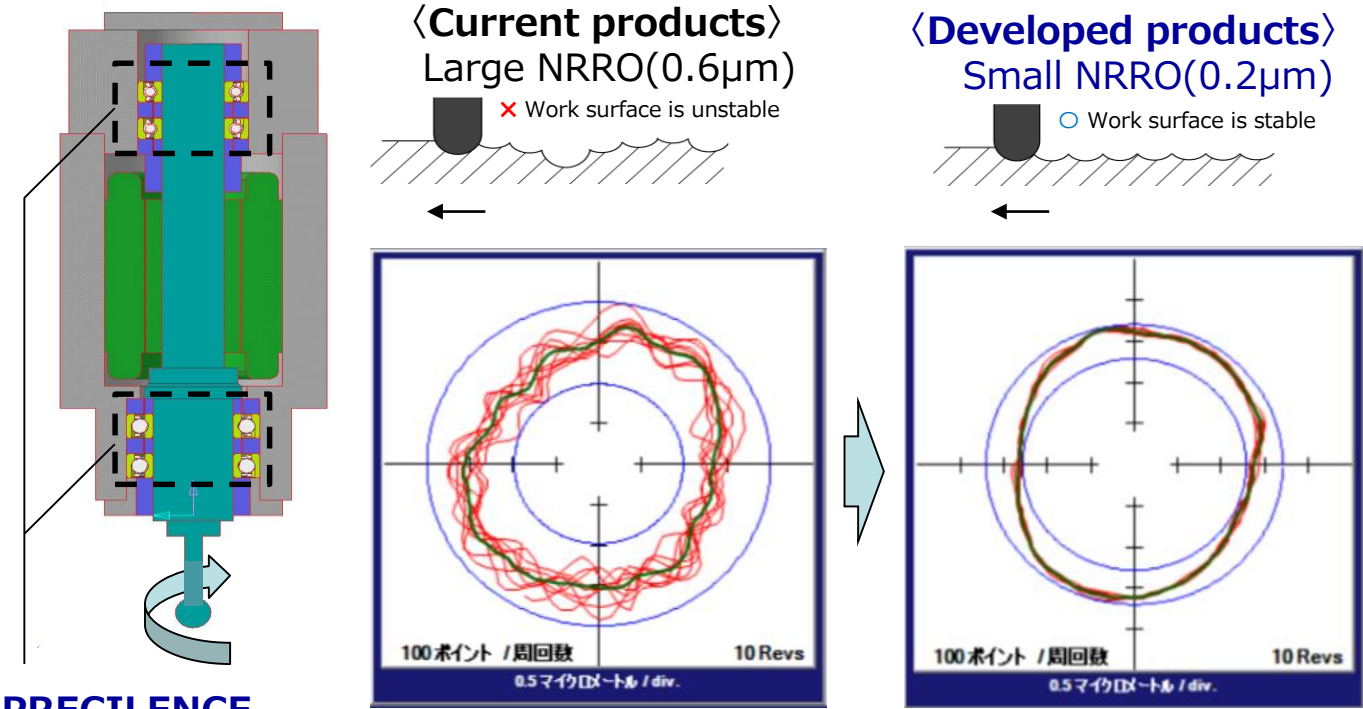
Non-Repeatable Run-Out

NRRO influences work surface quality



Bearing installed in the spindle	
BRG size	Fr : Φ45 x Φ75 x 16 Rr : Φ35 x Φ62 x 14
lubrication	Oil
Cooling	Jacket

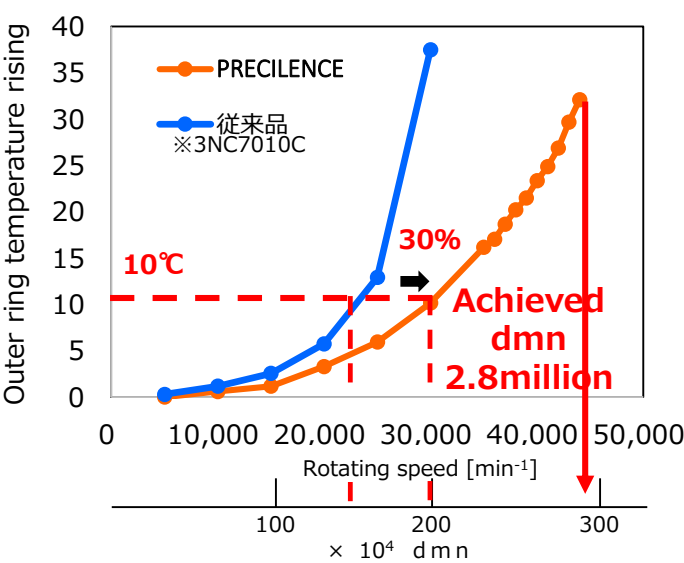
2) Rotating Lissajous



- Small runout in high rotating speed (NRRO)
- Low temperature rising

Improving work surface quality

3) Compatible with high speed in grease lubrication



Difference of work surface by NRRO

STAVAX (52HRC)
Comparison of work surface quality



Work piece

Current

Developed



Surface : Ra 0.052μm
Circumferential line is visible



Surface : Ra 0.021μm
Circumferential line is less visible

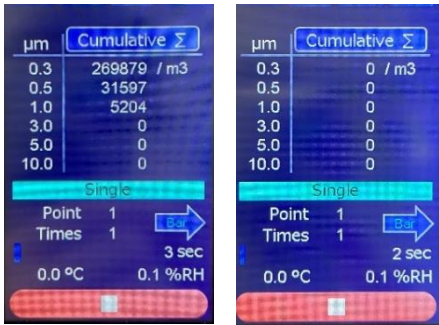
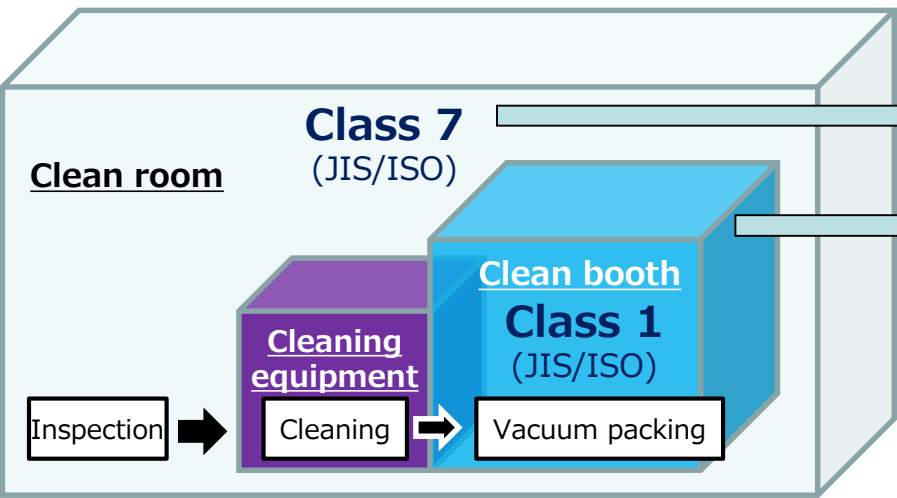
Oil air lubrication → Grease lubrication

Reduction of air contributes to carbon neutrality

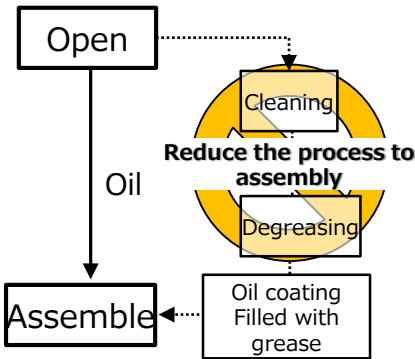
3. Cleanliness management at clean room

Thorough cleanliness management . . . Achieved under 1/10 of remaining rubbish against other competitive products.

No cleaning required before assembly



Industry	Required degree of cleaning	
	JIS/ISO	FED(209D)
Medical/Research/Film	Class 1~2	---
Semiconductor factory	Class 3~5	Class 1~100
Electronic/Precision factory	Class 5~7	Class 100~10,000
Medicine/Food factory	Class 7~8	Class 100~100,000

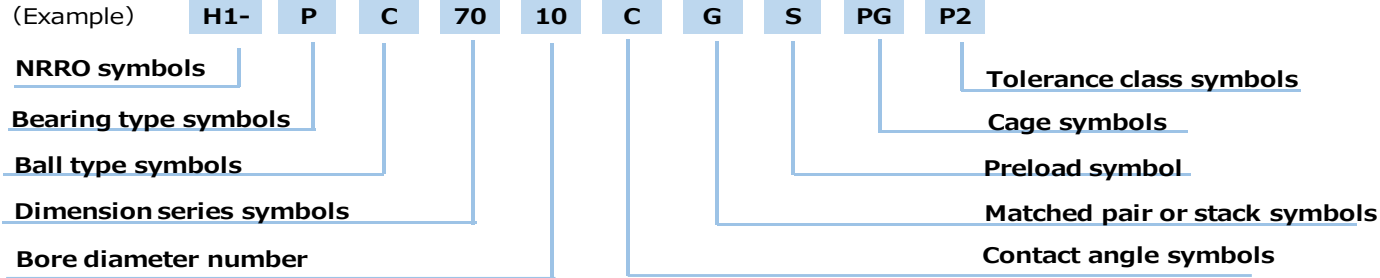


Using package of dust-free when opened (incl. outer box)

Contributes to maintain cleanliness at assembly work place

4. Nominal number structure

Nominal number structure



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