



**Better Frictional Resistance,**

**Better Thread Slip,**

**New Loopers from JUKI**

Ti-Mo-N film surface treatment on the loopers provides low friction and wear resistance.

Smooth thread feeding improves the quality of sewing.

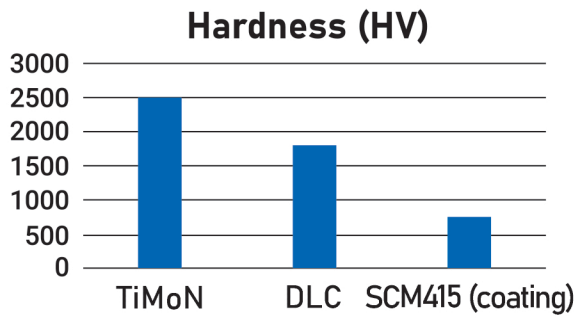
New

JUKI's first parts whose surface treated with Ti-Mo-N film. Ti-Mo-N coating greatly improves the resistance between threads and loopers. It contributes to further quality improvement.



## Long Life

TiMoN film is a kind of titanium alloy coating film, which achieves long life like TiN or TiAlN. The surface is covered with a film with high hardness to prevent wear.



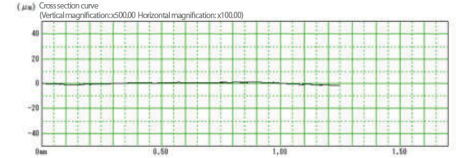
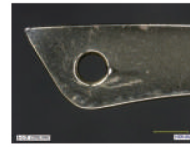
※Steel material (without heat treatment): 200 HV, aluminum/copper: 80 to 100 HV

## Wear Test of Thread Path

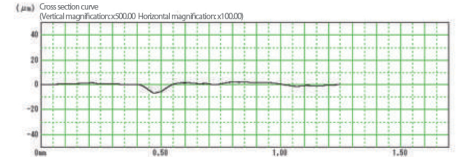
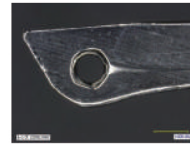
Under the conditions of thread winding speed of 2m/s and sliding distance of 200m, spun threads were impregnated with abrasive to promote wear.

### ● TiMoN film

No wear observed



### ● SCM415(carburized) 8μm thick wear observed

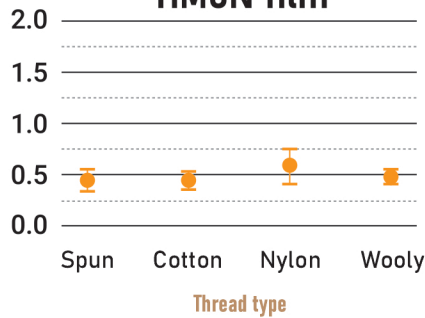


## Low Resistance

Resistance between TiMoN film/DLC film/SCM carburized parts and 4 types of thread (spun, cotton, nylon, and wooly) measured.

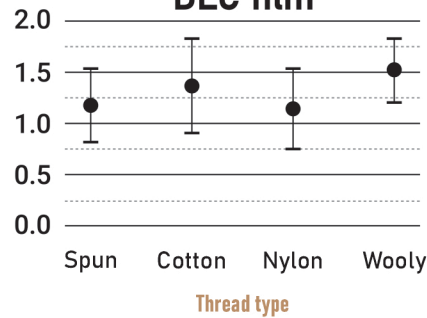
Thread threading force (N)

### TiMoN film



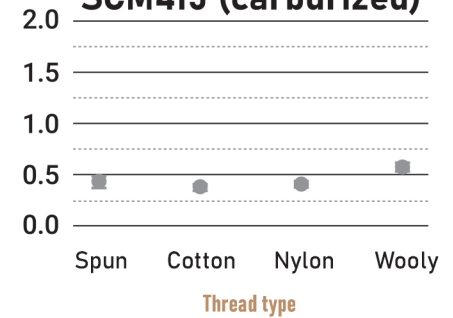
Thread threading force (N)

### DLC film



Thread threading force (N)

### SCM415 (carburized)



No. of TiMoN coating part	No. of standard part	Part name	Applicable model
40237550	12968509	LOOPER L	MS-1261/MS-1261M/MS-1261A
40237551	12968806	LOOPER R	MS-1261/MS-1261M/MS-1261A
40237552	12969101	LOOPER C	MS-1261/MS-1261M/MS-1261A
40237553	B2030481000	LOOPER	MH-481
40237556	13424809	LOOPER	MF-7900 Series
40237557	12120705	CHAIN LOOPER	MO-6700S-0E4/MO-6714S-BE/MO-6716S-DE4
40237559	13337902	LOOPER	MF-7500 SERIES



LOOPER 40237550



LOOPER 40237551



LOOPER 40237552



LOOPER 40237553

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