



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.

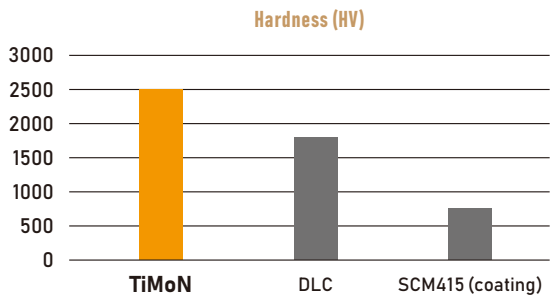
New

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

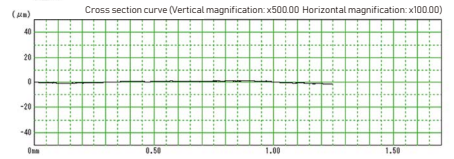
Wear Test of Thread Path

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

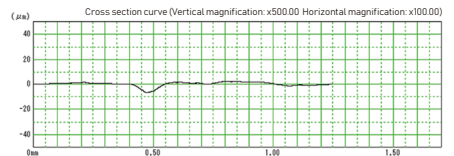


No wear observed



● SCM415 (carburized)

8μm thick wear observed

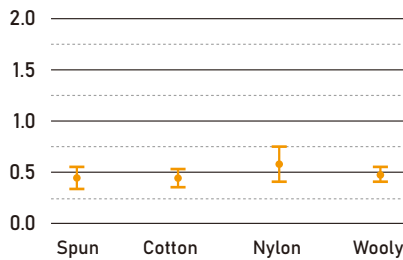


Low Resistance

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

Thread threading force (N)

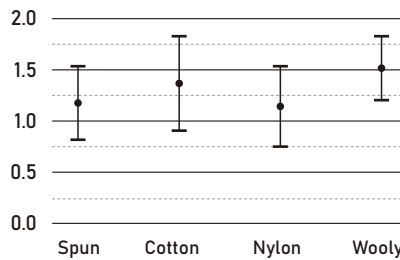
TiMoN film



Thread type

Thread threading force (N)

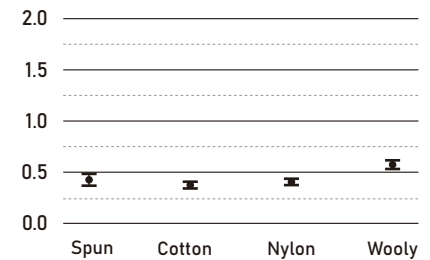
DLC film



Thread type

Thread threading force (N)

SCM415 (carburized)



Thread type

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-480 Series
40237556	13424809	LOOPER	MF-7900, MF-7200D Series
40237557	12120705	CHAIN LOOPER	MO-6△16
40237559	13337902	LOOPER	MF-7500 Series
40246367	B242621000B	NEEDLE HOLE GUIDE D=Φ2.0	AMS-E/EN Series
40246368	B242621000D	NEEDLE HOLE GUIDE D=Φ2.4	AMS-E/EN Series
40246369	B242621000F	NEEDLE HOLE GUIDE D=Φ3.0	AMS-E/EN Series
40246467	11999307	LOWER LOOPER	MO-6700 / MO-6900S Series
40246468	12176004	UPPER LOOPER	MO-6700 / MO-6900S Series
40247112	12176103	UPPER LOOPER	MO-6700 / MO-6900S Series
40249863	B2426280000	NEEDLE HOLE GUIDE	LK-1900BN Series
40257763	12176202	UPPER LOOPER	MO-6△16 (for high lift model)
40257815	11991908	UPPER LOOPER	MO-6△04, 6△14 (for high lift model)
40257816	11999802	LOWER LOOPER	MO for thick thread



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