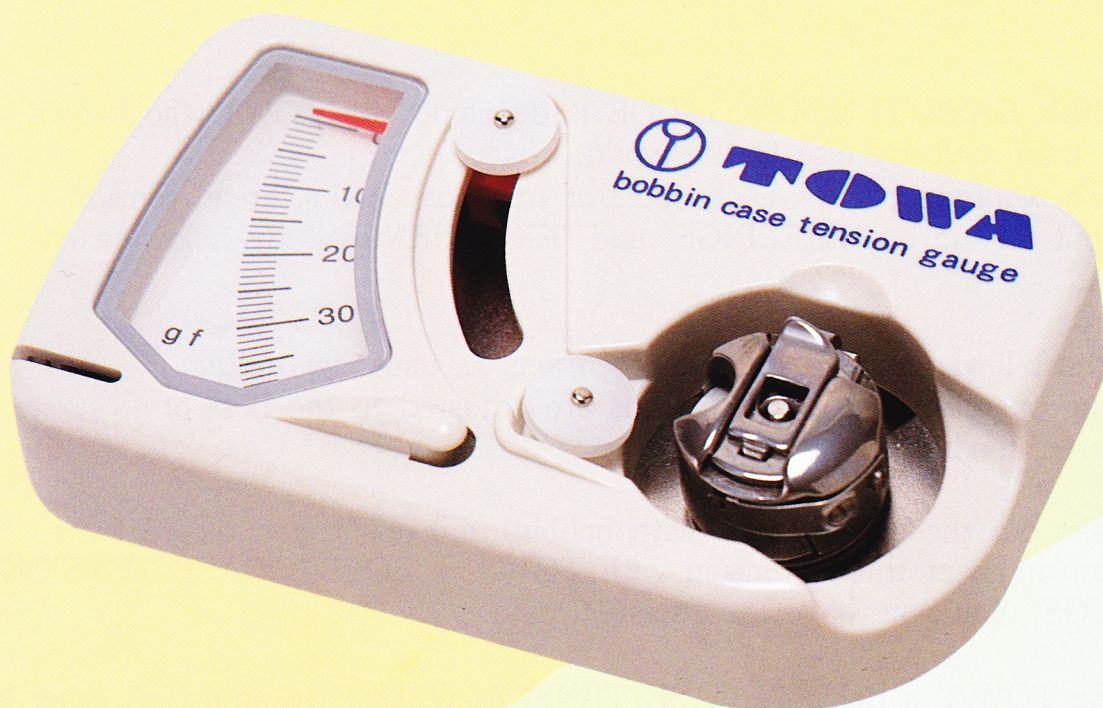


# BOBBIN CASE TENSION GAUGE

"DATA" Takes Place of Relying on "FEELINGS" & "EXPERIENCES".



TOWA, the specialist of manufacturing bobbin case,

have just accomplished **TM SERIES** of the thread tension gauge by their specialized know-how.

The accurate measuring of the thread tension in bobbin case is vital for sewing !!

Type No.	Kinds of usable bobbin cases
TM-1	BC-HR (Home Use Rotary Type)
	BC-DB1, BC-DBZ (Industrial Use Rotary Type)
TM-2	BC-HA1, BC-HZ (Home Use Shuttle Type)
TM-3	BC-DBM (All Classes)
TM-4	BC-PF 9076 (All Classes)
TM-5	BC-269, BC-LK(B), BC-LK(J) (Industrial Use Shuttle Type)

\* This device is in particular suitable for measuring the thread tension of bobbin case with N.B.L. spring !!  
(N.B.L. is TOWA's registered trade mark.)





# BOBBIN CASE TENSION GAUGE

BOBBIN CASE TENSION GAUGE is developed by TOWA who knows bobbin case than anybody else in the world.

This new product helps each operator to adjust lower thread tension without relying on "FEELINGS" and "EXPERIENCES" by following easy steps:

(1) Adjust lower and upper thread tensions as usual for certain sewing operation, until the tensions are adjusted to the best or preferred conditions.

(2) Take out the bobbin case (with bobbin) and check and record the particular lower thread tension with TOWA' s BOBBIN CASE TENSION GAUGE. You now have the "master" data.

(3) Use TOWA' s BOBBIN CASE TENSION GAUGE to adjust all other bobbin case which are to be used for the same operation.

Place the tension adjusted bobbin case (with bobbin) into the hook, and adjust only the upper thread tension until ideal stitches are obtained.

\* Once the data is recorded, the same can be used for months and years as long as the sewing operation is the same.

Besides TOWA' s preciseness, the new BOBBIN CASE TENSION GAUGE is built-in with the structure which checks the tension under the same condition as the bobbin case working in the hook.

This is very important to be able to check the actual and total amount of tension given to the thread, rather than merely checking the strength of thread tension spring with other tension gauges on market (particularly for NBL bobbin cases).