

## Preventing Skipped Stitches

### ORGAN NEEDLE INFORMATION

## NY2 Series

As the performance and speed of sewing machines increase, the problems of "skipped stitches" lead to increased problems of defective products and lost productivity.

ORGAN's NY2 Series of needles eases the concerns related to wanting to increase sewing speeds and preventing skipped stitches.



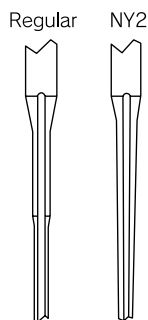
Intensive studies of skipped stitches reveal the problematic factors related to needles. ORGAN's NY2 Series needles apply every possible countermeasure in their design to prevent skipped stitches, improve the quality of sewn products, and improve productivity.



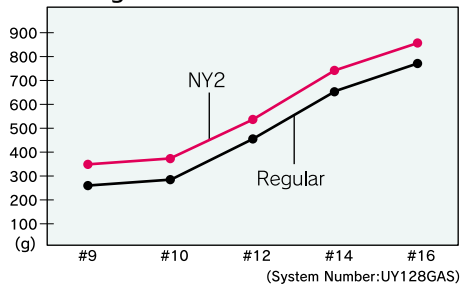
**ORGAN NEEDLE CO., LTD.**

### Preventing Skipped Stitches

SYSTEM NUMBER	8	9	10	11	12	14	16	18	19	20	21	22	23	REGULAR SYSTEM
DB×1-NY2	●	●	●	●	●	●	●	●	●					DBx1,1738,16x231
DP×134-NY2		●	●	●	●	●	●	●	●	●	●	●		DPx134,DPx5,134R,135x5,797
DP×17-NY2							●	●	●	●	●	●	●	DPx17,135x17,2167,SY3555
UY×128GAS-NY2		●	●	●	●	●	●	●	●	●	●			UY128GAS.MY1040



Strength Test



#### NY2 Series: Tapered Blade Design

##### Cause and Countermeasure for Skipped Stitches #1:

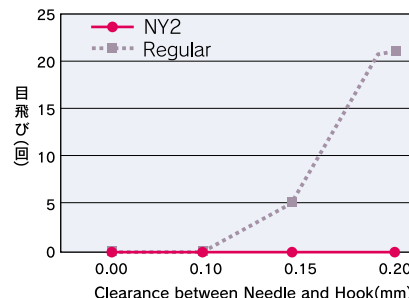
Skipped Stitches occur when the distance between the needle and the point of the looper or hook is too great. It is hard to maintain needle adjustment when the needle vibrates or is deflected in the sewing operation. Instead of employing the standard double-swaged blade, ORGAN's NY2 Series has a tapered blade design intended to dramatically reduce the needle's flexibility during high speed sewing conditions. The NY2 Series design increases the needle's strength by 30% as compared to conventional needle designs.

#### NY2 Series: Cliff Scarf

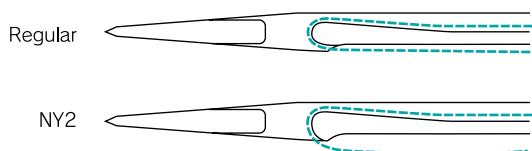
##### Cause and Countermeasure for Skipped Stitches #2:

Increases in sewing machine speed and the diverse assortment of sewing threads require an optimally designed needle scarf to form the proper and stable thread loop. To avoid skipped stitches, the point of the looper or hook must dependably meet the needle to pick up the thread. The NY2 Series needle has a long, deep scarf called a "Cliff Scarf", that is designed to facilitate the reliability of picking up the thread and avoiding skipped stitches.

##### Comparison of Scarf



##### Thread Guide of Needle's Eye



#### NY2 Series: Shape of Needle's Eye

##### Cause and Countermeasure of Skipped Stitches #3:

The shape of the needle's eye is critical to achieve proper loop formation. The eye must maintain proper spacing for the sewing thread. The NY2 Series has designed the needle's eye as the optimal "thread guide" to feed the thread to the stitch. Even when the loop is hardly formed, the NY2 Series eye works with the "Cliff Scarf" to assure the space needed by the point of the looper or hook to form a correct stitch.

#### Slim Needle Point

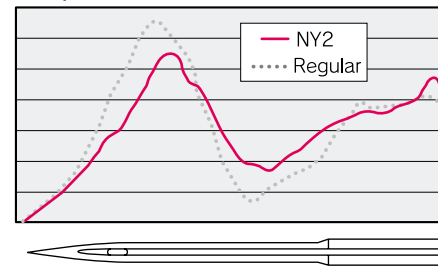
##### Cause and Countermeasure of Skipped Stitches #4:

The slim point of NY2 Series needles drastically reduces penetration resistance. This design minimizes needle deflection that causes skipped stitches especially in thick and hard materials. The slim point has an added advantage in also being effective at reducing the occurrence of yarn breakage in the fabric being sewn.

##### Comparison of Penetration Resistance



##### Comparison of Penetration Resistance



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