

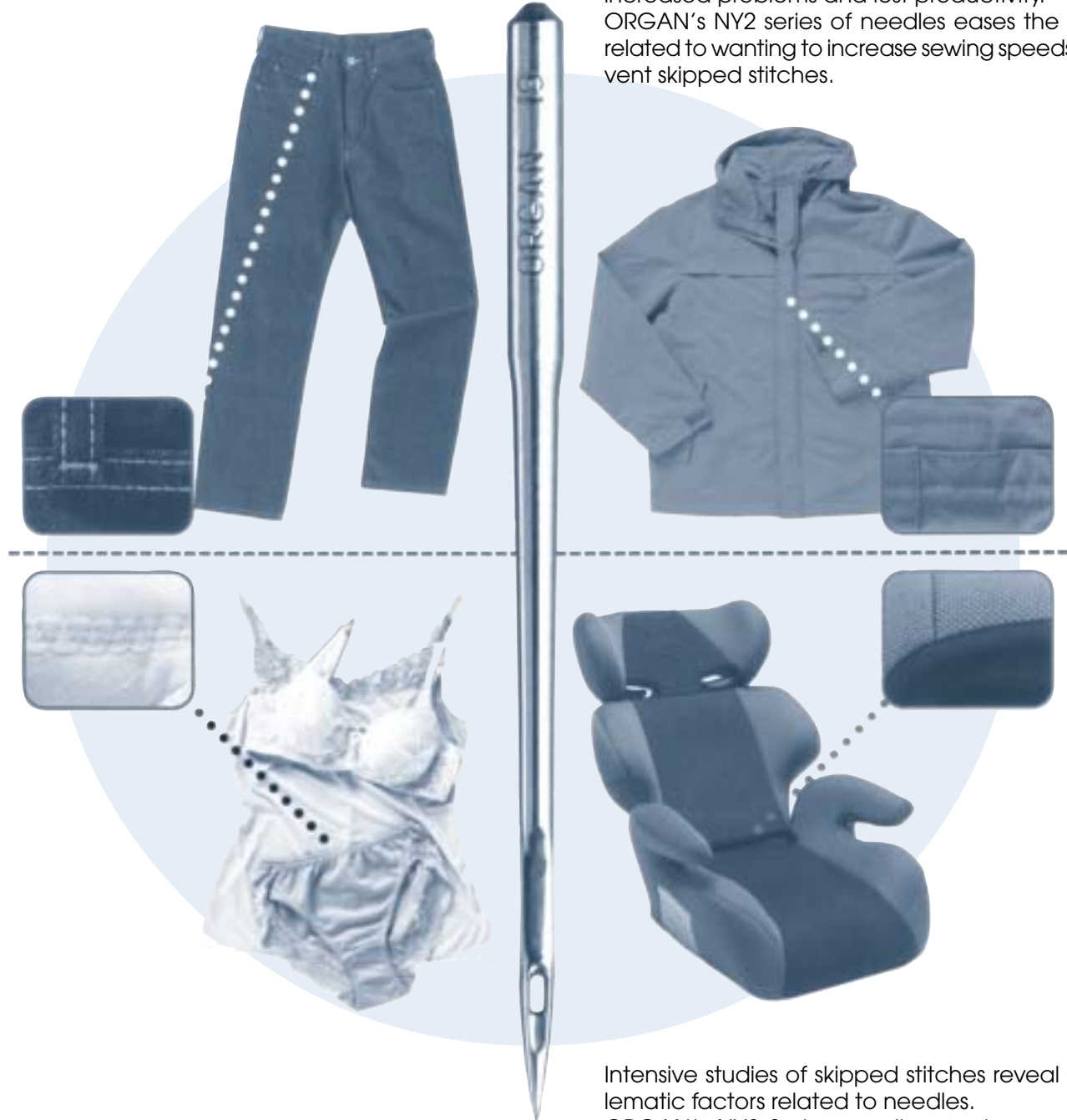
Preventing Skipped Stitches

ORGAN® NEEDLES INFORMATION

NY2 Series

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

ORGAN's NY2 series of needles eases the concerns related to wanting to increase sewing speeds and prevent 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

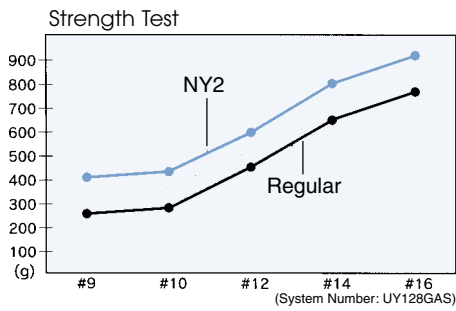
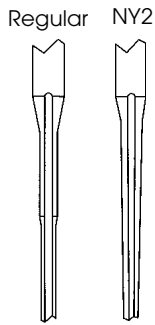
Diamond Needle Corp

GPO BOX 1355 • 159 W 25 St. • New York, NY 10001
Phone: (212) 929-2277 • (800) 221-5818
FAX: (212) 242-8882 • (800) 833-3363 • E-mail: info@diamondneedle.com



Preventing Skipped Stitches

SYSTEM NUMBER	7	8	9	10	11	12	14	16	18	19	20	21	22	23	REGULAR SYSTEM
DBX1-NY2			●	●	●	●	●	●	●	●					DBx1, 1738, 16x257
DPX134-NY2			●	●	●	●	●	●	●	●	●	●	●		DPx134, DPx5, 134R, 135x5, 797
DPX17-NY2						●	●	●	●	●	●	●	●		DPx17, 135x17, 2167, SY3555
DPX35R-NY2							●	●	●	●	●	●	●		DPx35R, 134-35
UYX128GAS-NY2	●	●	●	●	●	●	●	●	●	●	●	●	●		UY128GAS, MY1040



NY2 Series: Tapered Blade Design

Cause and Countermeasure for Skipped Stitches #1:

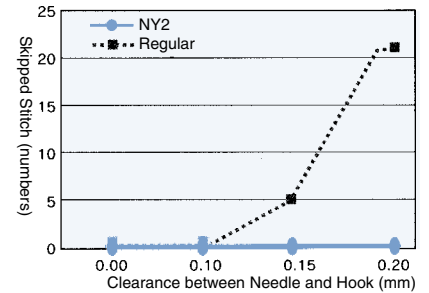
Skipped Stitches occur when the distance between the needle and the point of the looper is too great. It is hard to maintain needle adjustment when the needle vibrates or is deflected in the sewing operation. Instead of employing the regular double-swaged blade, ORGAN's NY2 series has a tapered blade 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

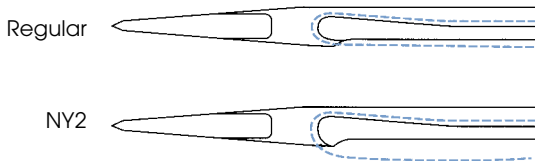
Cause and Countermeasure for Skipped Stitches #2:

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 that forms a stitch. 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



Shape of Needle's Eye



NY2 Series: Shape of Needle's Eye

Cause and Countermeasure for 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 for Skipped Stitches #4:

The slim point of NY2 Series needles drastically reduces penetration resistance. The 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

