

Preventing Yarn Breakage &  
Needle Holes

ORGAN NEEDLE **INFORMATION**

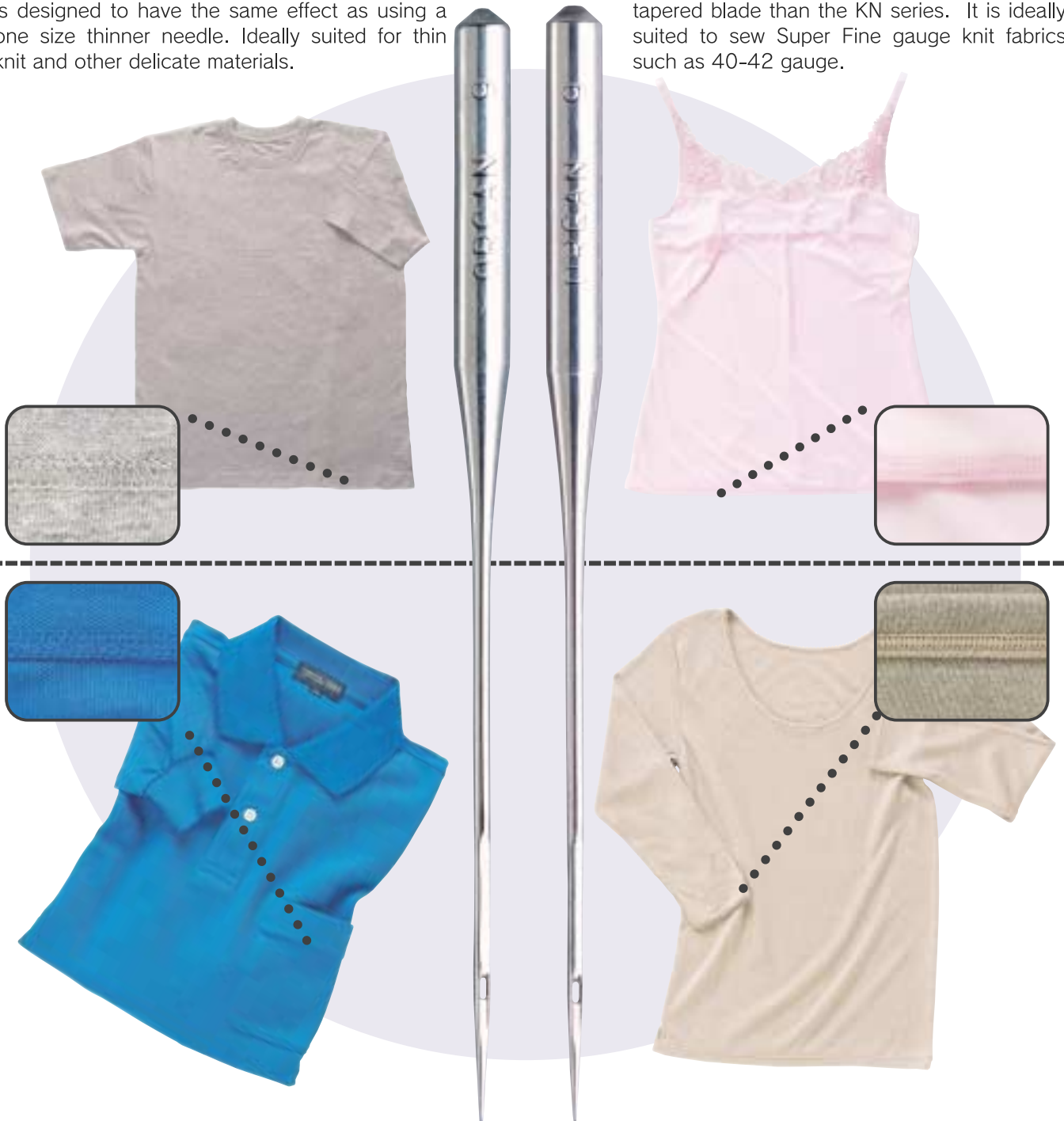
**KN-SF** Series

## KN series

The KN needle has a slender blade with a longer, tapered J-Ball / SES / Thin Ball point. It is designed to have the same effect as using a one size thinner needle. Ideally suited for thin knit and other delicate materials.

## SF series

The SF series needle has a J-Ball / SES / Thin Ball Point, but it also has a more slender tapered blade than the KN series. It is ideally suited to sew Super Fine gauge knit fabrics such as 40-42 gauge.

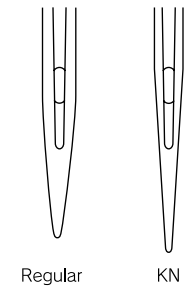


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### [KN Series for Sewing Knit Materials]

SYSTEM NUMBER	8	9	10	11	12	14	REGULAR SYSTEM
DB×1KN	●	●	●	●	●	●	DB×1.1738.16×231
DP×5KN		●	●	●		●	DP×5.DP×134.134R.135×5.797
DA×1KN	●	●	●				88×1.1128
DC×1KN		●	●	●	●	●	81×1.621.MY1023A.B-27.MY1023
DM×13KN		●	●				82×13.SY1246
DC×3KN		●	●	●			81×3.SY1225
UY×128GASKN	●	●	●	●			UY128GAS.MY1040
LQ×5KN					●		68×5.3201
RE×1KN			●		●		950.SY7710

Comparison with Conventional Type



#### ■KN Series: Slim Tapered Needle Point

Causes and Countermeasures for Yarn Breakage & Needle Holes

Yarn breakage is caused by the sudden stretching of yarns during needle penetration from needle tip to needle eye. The slim tapered needle point of the KN series reduces penetration resistance in fabrics which minimizes the occurrence of yarn breakage and needle holes.



#### ■KN Series: Shape at the Area of the Needle's Eye

The highest resistance to the sewn material occurs when the area around the needle's eye penetrates the fabric. The KN Series is designed to be thinner than standard needles around the area of the needle's eye. The needle's eye maintains its standard size so there is no need to change the thread size.

#### ■KN Series: Needle Blade

The standard needle has a double swaged blade for greater strength in high speed sewing machines. The KN Series needle has a straight blade for a consistently slimmer shape of the blade all the way to the point.

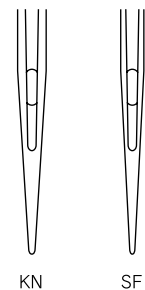
Needle Blade Shape



### [SF Series: For Sewing Super Fine Gauge Knits]

SYSTEM NUMBER	8	9	10	11	REGULAR SYSTEM
DB×1SF		●	●	●	DB×1.1738.16×231
DP×5SF		●	●		DP×5.DP×134.134R.135×5.797
DP×17SF		●	●		DP×17.135×17.2167.SY3355
DC×1SF	●	●	●	●	81×1.621.MY1023A.B-27.MY1023
DC-N17SF		●	●		Longer Shank Model (+3mm) of DCx1
DC×N25SF		●			Longer Shank Model (+1.5mm) of DCx1
FL×118GCS SF		●	●	●	FL×117GCS.UY118GAS.UY118GBS

Needle Tip Shape



#### ■Slimmer than KN Series

The SF Series, from the area around the needle's eye to the needle's point, is slimmer than the KN Series. This slimmer design minimizes the resistance during needle penetration. SF Series needles are ideally suited for sewing super fine gauge knits or other delicate materials.

#### ※Ball Points

KN and SF series needles have the J-BALL / SES / Thin Ball Point. Other ball point designs can be selected to suit particular materials.



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