The needle by SCHMETZ
Needle Systems and Machines

DDL-8700B-7

spesa

Advancements in Manufacturing Technology

SCHMETZ

NEEDLES SINCE 1855
Needle Systems and Machines
Descriptions of sewing machine needles

- **Short groove scarf**
- **Long groove**
- **Land**
- **Scarf**
- **Eye**
- **Point**
- **Groove**
Module Packaging

CANU = SCHMETZ Catalogue Number
NM = Blade Diameter- Number Metric
SIZE = Old Singer designation/Asia
134 = Needle System/needle designation in Europe
other needle designations
ex: DPx 5 used throughout Asia
135 x 5 o 135 x 7  designacion Singer-USA
(R) = Point Designation
Here: Regular point or normal point
CANU

- 03:36 MA
- 20:05 _
- 14:25 EB
- 38:00 FB
- 20:05 PB

SPI (Acute Round Point)

(R) (Round Point)

SES (Light Ball Point)

SUK (Medium Ball Point)

SKF (Heavy Ball Point)
Plating & Coating

- 03:36 MA 1
- 22:15 EB 2
- 38:00 FB 3
- 44:36 8
- 37:20 9

1 = CHROMIUM PLATING
2 = NICKEL PLATING
3 = BLUKOLD or PTFE
8 = NICKEL TEFLON
9 = TITANIUM
SPECIAL APPLICATION

- 03:36 MA 1
- 20:05 EB 17
- 37:20 12
- 44:36 18
Module Packaging

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Selecting the Needle

SCHMETZ 100/16
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<th>Union Special</th>
<th>System 292</th>
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Very dense woven materials

- Silk
- Microfabrics
- Heavy woven

SPI

»SPI«
- Round Point
- Woven Fabrics
- Light Woven
- Laminated materials
- Fur
- Leather/Textile combinations
- Knit wear
- Medium to Heavy
- Denim
- Corsetry

»SUK«

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SCHMETZ
NEEDLES SINCE 1853
Heavy Sewing

SCHMETZ SERV 7

Reinforced Blade
SCHMETZ SERV 7

- SCHMETZ SERV 7
- UY 128 GAS SEV 7
- 135x17 SERV 7
- 134-35 SERV 7

Standard

- SCHMETZ SERV 7
- UY 128 GAS SEV 7
- 135x17 SERV 7
- 134-35 SERV 7
Special Coating NIT

Features
• Anti-adhesive surface with excellent abrasion resistance
• Abrasion Resistance
• Corrosion resistance

Advantages
• 
• 
• 
• 

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Nickel - PTFE

Application:

• Material with a low softening/melting point
• Man-made Materials
• Materials with high man-made fibre content
• Material with special finishing
• Heavy and Hard materials
• Coated materials
• Minimize smearing on eye & blade of needle
Special Coating NIT & SERV 7
SPECIAL COATING SERVICE

Advantages:
• Excellent Wear Resistance
• Long lasting Needle Tip
• Less Needle Breakage

Features:
• Ultra Hard Titanium Nitride Coating
• Very Hard Needle Surface
• Anti-adhesive Surface
Better Loop formation

SCHMETZ SERV 7

Standard

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**Features**

- Slim, continuous cylindrical blade without any reinforcement
- SUK Point
- Reduced cross-section of eye area

**Advantages**

- Smaller stitch holes than with standard needles
- Minimises knitwear damage due to the slim shape
- "SPECIAL GEOMETRY"
SF

EXTRA SLIM POINT

KN = Very Fine Knitwear
SF = Extremely Fine Knitwear (40 to 42 gauge)

Features:
• Very slim shape from eye to point
• Ball point - SUK-
• Cylindrical blade without any reinforcement

SCHMETZ KN  SCHMETZ SF

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SCHMETZ  NEEDLES SINCE 1855
Features:

• Eye Enlarged
• Enlarged Groove
• Round Point
• Slightly Rounded Tip

NEW Special Application

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Special Application

NEW

Schmetz
Needles Since 1855

Herzogenrath
Germany

10
CANU: 03:36EB11
NM: 80 SIZE: 12
B-27 SES SERV 1
MY 1023 SES SERV 1
UY 191 GS SES SERV 1
DCX27 SES SERV 1
MADE BY SCHMETZ 10/14

10
CANU: 38:00EB11
NM: 80 SIZE: 12/032
UY 128 GAS SES SERV1
MADE BY SCHMETZ 12/14

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Schmetz
Needles Since 1855
Temperature profile during the sewing process (without thread)
Thermal Damage
Lubrication of thread

- too much lubrication
- irregular lubrication
- perfect lubrication
Needle Temperature Influence of different qualities of sewing thread

Test Parameter:
- Machine: lockstitch (Type 301)
- Speed: 1/1 min
- 4,000

Needle system: 134/DPX5
- Size: 90/14
- Material: Denim (Jeans) 14 oz.
- Number of layers: 4

1) Melting after 4.5 sec/seg
2) Melting after 7 sec/seg
3) Melting at machine stop

Interval de fusión PES
Zona de fusão PES
Mesh Damage caused by oversize needles

NM 90
SIZE 14

NM 70
SIZE 10
Displacement Puckering

-Thread size-
Fabric displacement of the fibers

Needle size + Thread

Displacement Puckering - Needle Size -
Displacement Puckering

- Thread Tensions
- Stitch Density

SERVICE HOUSE

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SCHMETZ

NEEDLES SINCE 1855
Cutting Point Needles

SCHMETZ 100/16

Seam appearance:

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SCHMETZ NEEDLES SINCE 1855
Thank you very much for being interested

Herzlichen Dank für Ihr Interesse

Merci beaucoup pour votre intérêt

Muchas gracias por su interés

Muito obrigado pelo seu interesse

Grazie mille per il Suo interesse

御清聴有り難うございました

Сердечно благодарим Вас за Ваш интерес.

欢迎垂询！