



## SCHMETZ needles of special geometry

### SCHMETZ SERV 7, KN, SF and FHS

Challenging sewing processes require the use of special needle geometries. Conventional needle geometries often do not correspond to the requirements, for instance in the processing of especially fine or elastic materials, with frequent needle size change or in multidirectional sewing. For special uses, SCHMETZ offers a range of needles of special geometry including the SCHMETZ SERV 7, KN, SF and FHS.

- Highly elastic materials
- Sewing a varying number of material layers in one operation
- Thick and strong material layers
- Material combinations
- Cross seams
- Multidirectional seams
- Use of elastic sewing threads
- Very fine and extremely fine knitwear
- Frequent needle size change

# SCHMETZ SERV 7

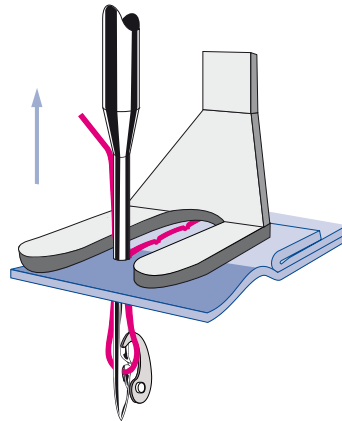
## Increased needle stability and reliable seams

### Advantages:

- Effective prevention of skip stitches
- Extremely high needle stability prevents the needle from deflection
- Less needle breakage
- Compared to a standard needle a smaller needle size possible without loss of stability
- Precise stitches and therefore neat seam appearance
- High productivity
- Reduced wear on machine parts (hook, needle plate, etc.) and therefore reduced costs

### Features:

- The hump scarf (raised collar between eye and scarf) produces a larger needle thread loop which can easily be picked up by the hook
- The conical reinforcement of the blade increases needle stability and prevents the needle from deflection

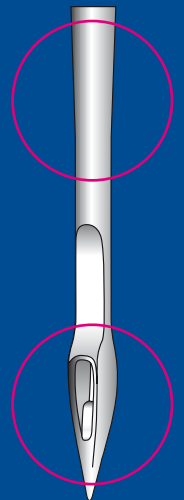


### Application:

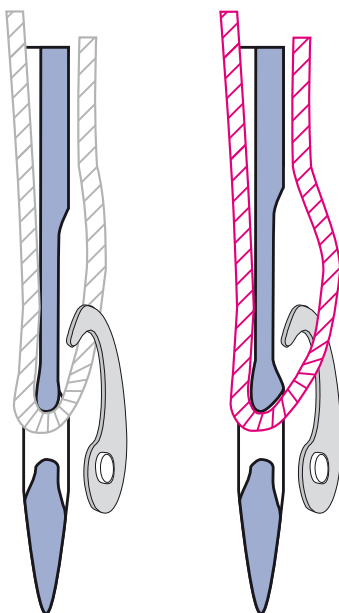
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Standard

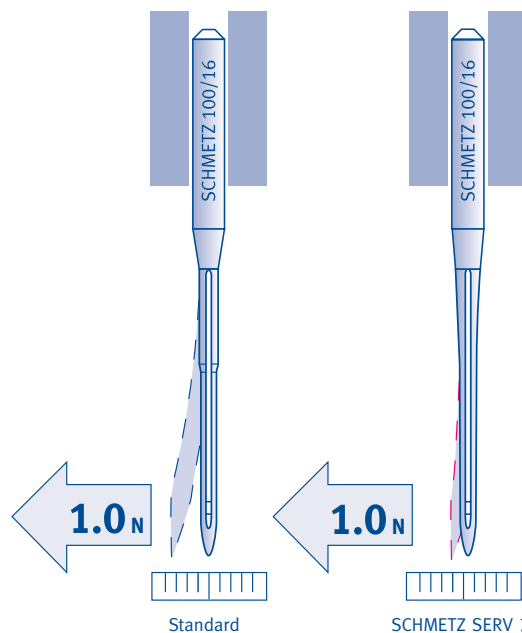


SCHMETZ SERV 7



Standard

SCHMETZ SERV 7



Standard

SCHMETZ SERV 7

## SCHMETZ KN

### Slim needle against knitwear damage

#### Advantages:

- Smaller stitch holes than with standard needles
- Minimises knitwear damage due to the slim shape
- Reduced penetration force in comparison to standard needles

#### Features:

- Slim, continuous cylindrical blade without any reinforcement
- Reduced cross-section of eye area
- Slim shape from eye area to point
- Ball point



Standard SCHMETZ KN

#### Application:

- Very fine knitwear

## SCHMETZ SF

### Extra slim point and eye area for finest knitwear

#### Advantages:

- Smaller stitch holes than with standard needles
- Minimises knitwear damage due to the very slim shape
- Reduced penetration force in comparison to standard needles

#### Features:

- Slim, continuous cylindrical blade without any reinforcement
- Reduced, very slim cross-section of eye area
- Very slim shape from eye area to point
- Ball point



SCHMETZ KN



SCHMETZ SF

#### Application:

- Extremely fine knitwear, e.g. 40 to 42 gauge

## Sewing without hook adjustment

### Application:

- Production of shoes and footwear with frequent needle size changes

### Features:

### Advantages:

- One hook setting fits all needle sizes from NM 70/10 – NM 120/19
- No hook re-adjustment necessary when changing the needle in the size range of NM 70/10 – NM 120/19
- Better protection, less wear of the hook
- Less damage caused by faulty hook adjustment
- Increased flexibility of the production process
- Reduction of machine downtime, gives increased production output
- Operators work more efficient
- Operators are more autonomous in changing the needle
- Reduction of machinery in operation possible

- The distance from hook point to scarf and from needle guard to eye/point area remains the same for all needle sizes from NM 70/10 to NM 120/19

