



## SCHMETZ special needles for multi-head embroidery machines

### SCHMETZ DBxK5 with special geometries

High quality embroidery processes require the use of special needle geometries. Conventional needle geometries often do not correspond to the requirements, for instance in the processing of sequins or in 3-dimensional embroidery, with frequent needle size change or when heavy embroidery threads are used. For those applications, SCHMETZ offers a range of special geometries in needle system DBxK5 for multi-head embroidery machines including the SCHMETZ DBxK5 KK, DBxK5 KK SERV 2, DBxK5 SERV 6, DBxK5 SERV 8 and DBxK5 FHS.

- Embroidery of sequins with a diameter down to 3 mm
- Extremely elastic materials
- Embroidery on thick materials
- Firm, strong embroidery material
- Extreme needle requirements regarding needle stability in 3-dimensional embroidery
- Frequent needle size and thread size change
- Use of very fine to extremely heavy embroidery threads
- Very dense embroidery patterns
- Innovative embroidery technique

# SCHMETZ DBxK5 KK

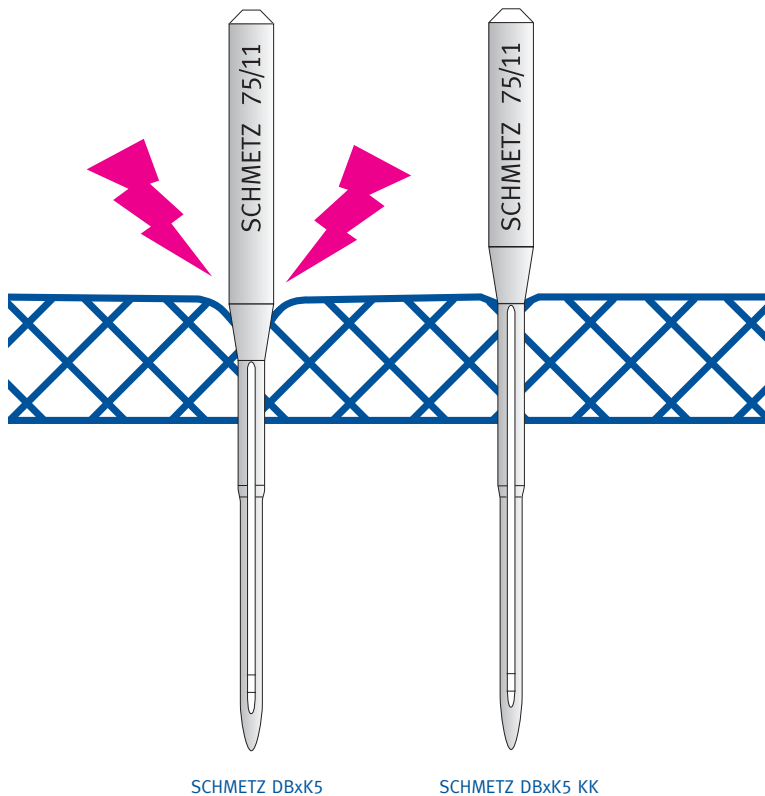
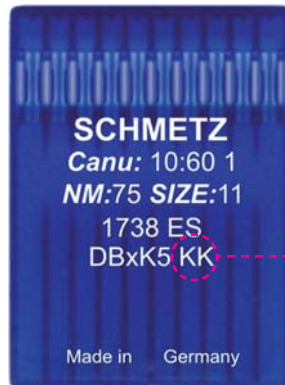
## Short shank

### Advantages:

- No penetration of shoulder or shank into material
- Eliminates the trapping and breakage of thread
- Avoids stitch hole enlargement
- Less damages of embroidery goods

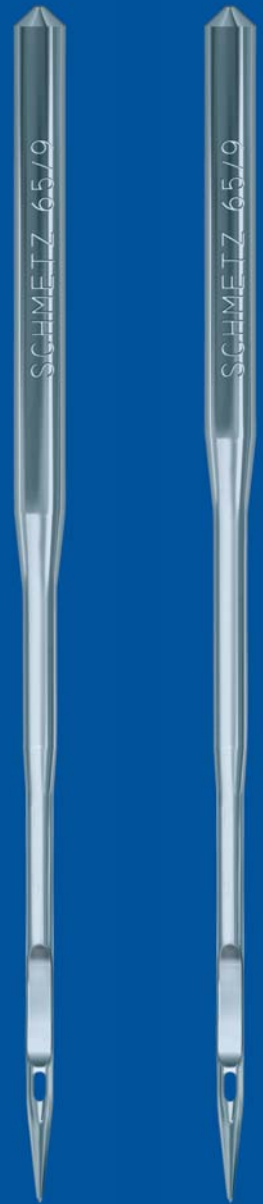
### Features:

- Short shank
- System designation supplement »KK« indicates short shank



### Application:

- Embroidery on thick materials



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DBxK5

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DBxK5 KK

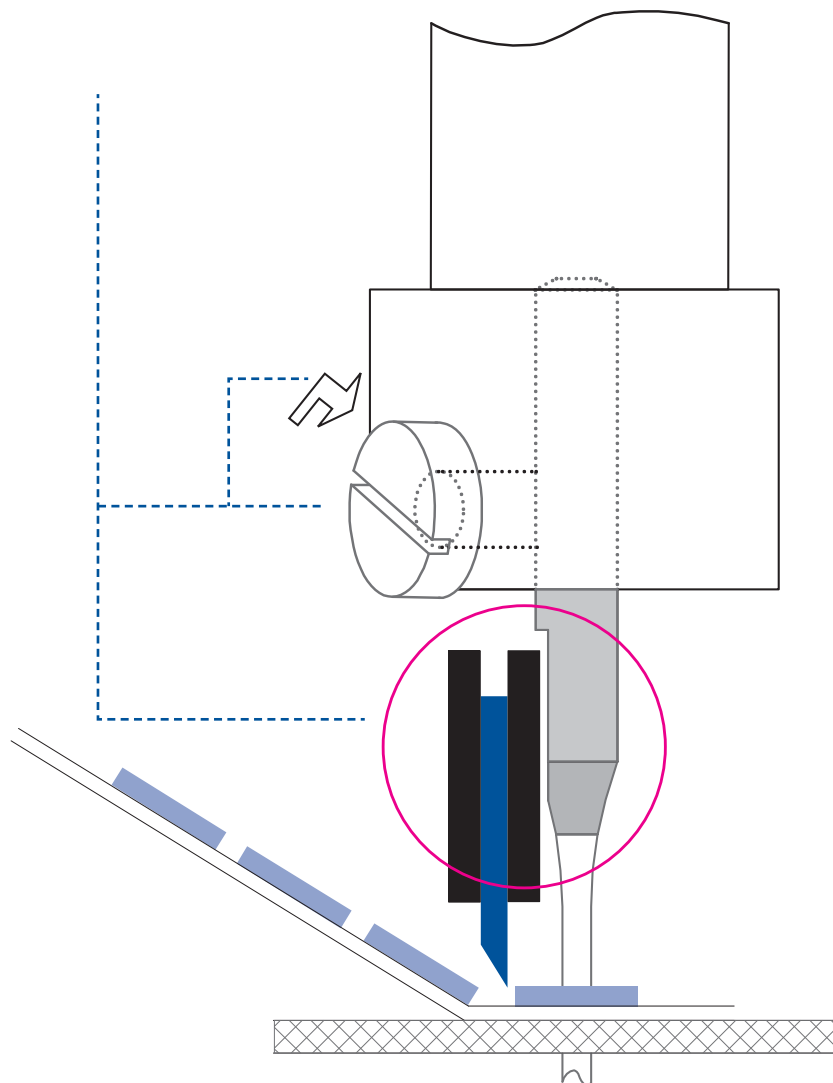
## Short shank and shoulder flattening

### Features:

- Short shank
- Shank flattening in shoulder and lower shank area

### Advantages:

- Due to the shank flattening in the shoulder area, the sequin chain cutter can be set very close to the needle without collision of knife and needle avoiding wear and harm to any of the involved parts
- Allows the embroidering of sequins with small diameter
- Due to the round cross-section of the upper shank area the needle can be used independently from the position of the needle set screw



### Application:

- Embroidery of sequins with a diameter down to 3 mm
- Multi-head embroidery machines with needle set screw positioned left-hand or right-hand



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## SCHMETZ DBxK5 SERV 6

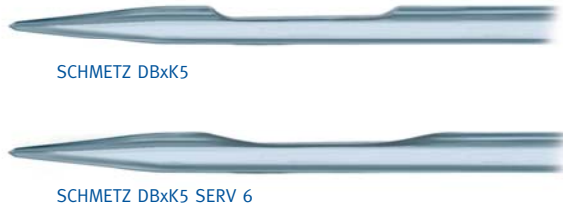
### Special scarf and reinforcement of the blade

#### Advantages:

- Reinforced conical blade leads to more stability than the standard version of the DBxK5
- The extraordinary flat transition between scarf and blade minimises the fluttering of the embroidery cloth
- Reduces the pulling of the material during needle penetration

#### Features:

- Conical blade reinforced compared to the standard version of DBxK5
- Very flat transition between the scarf and the blade



#### Application:

- Extremely elastic materials
- Especially loose framed materials which tend to fluttering
- Very densely embroidered patterns

## SCHMETZ DBxK5 SERV 8

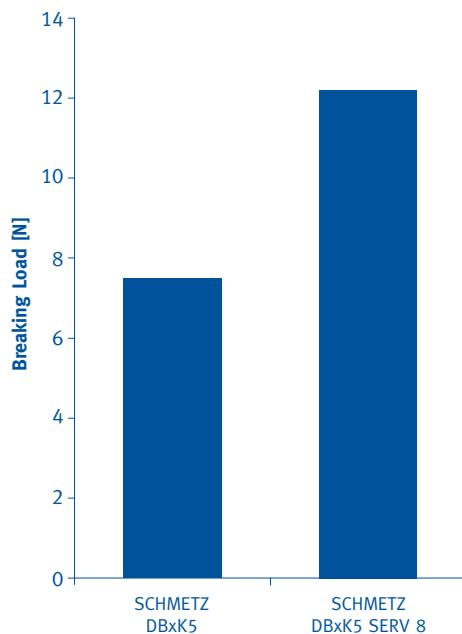
### Extremely reinforced needle blade

#### Advantages:

- Extreme stability in blade and scarf area
- Minimisation of needle breakage

#### Features:

- Conical blade extremely reinforced compared to the standard version of DBxK5



#### Application:

- Very dense materials
- Extreme needle requirements regarding needle stability in 3-dimensional embroidery with foam
- Firm, strong embroidery material

## Innovative embroidery technique with extremely different needle sizes in one head

### Advantages:

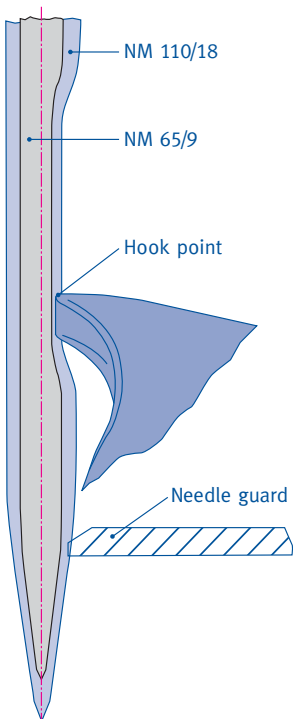
- One hook setting fits all needle sizes from NM 65/9 to NM 110/18
- No hook re-adjustment necessary when changing the needle in the size range of NM 65/9 to NM 110/18
- Each needle bar within one head can be equipped with another needle size between NM 65/9 and NM 110/18
- Various embroidery thread sizes can be used in one head
- The change from very fine to extremely coarse embroidery threads in each single head permits an innovative embroidery technique without re-framing the material and re-adjusting the hooks
- Increased flexibility in the production process and less machine downtime
- Operators are more autonomous in changing the needle and work more efficient

### Features:

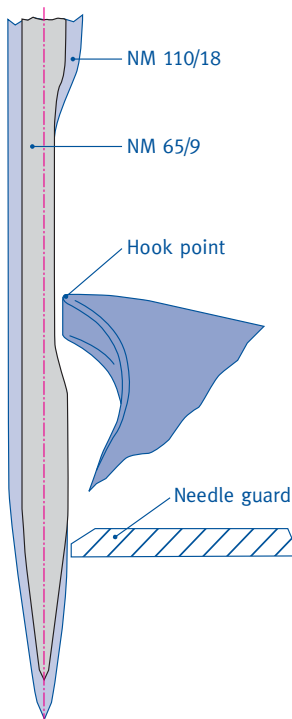
- The distance from hook point to scarf and from needle guard to eye/point area remains the same for all needle sizes from NM 65/9 to NM 110/18

### Application:

- Innovative embroidery technique
- For extreme changes from bulky woollen threads to fine embroidery threads without altering the hook setting
- Frequent needle size changes



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