THE WHOLE STORY ABOUT PARTS OF A NEEDLE
To the naked eye, a needle looks like a tiny piece of metal. Take a closer look and you will be amazed at the 20 odd parts that make up this magical fashion tool. Attached are illustrations of the needle with proper labeling to help you study the parts.
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**PARTS OF A NEEDLE**

- **Blade**
  - \( \text{Nm} = \text{Dx} \times 100 \)
  - \( 80 = 0.80 \times 100 \)

- **Butt**
- **Eye length and width**
- **CAE Depth**
- **Eccentric tip**
- **Butt to eye length**

www.beisselneedles.com
PARTS OF A NEEDLE

Shank thickness

<table>
<thead>
<tr>
<th>d (mm)</th>
<th>Tolerances (mm)</th>
<th>Tolerances (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.64</td>
<td>+0.006</td>
<td>+0.020</td>
</tr>
<tr>
<td>2.00</td>
<td>+0.006</td>
<td>+0.020</td>
</tr>
</tbody>
</table>

Shank thickness

<table>
<thead>
<tr>
<th>A (mm)</th>
<th>Tolerances (mm)</th>
<th>Tolerances (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>+0,020</td>
<td>-0,020</td>
</tr>
<tr>
<td>1-3</td>
<td>+0,000</td>
<td>-0,025</td>
</tr>
<tr>
<td>&gt;3</td>
<td>+0,000</td>
<td>-0,030</td>
</tr>
</tbody>
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</tbody>
</table>

Notched shank
PARTS OF A NEEDLE

- **Double groove**
- **Single groove**
- **Tip**
- **Thread protection**
- **Reinforced blade**
PARTS OF A NEEDLE

Point length

Flattened shank

Relief grinding
CUTTING POINTS

Narrow Wedge Point (P)

Cross Point (S)

Twist Point (LL)

Triangular Point (LL)

Square Point (Q)

Reverse Twist Point (LR)
ROUND POINTS

- Normal Round Point - R
- Light Ball Point - SES
- Medium Ball Point - SUK
- Heavy Ball Point - SKF
- Slim Set Point - SPI
- Stub Point - STU
- Special Ball Point - SKL
- Extra heavy Ball Point - TR
- Round Point with Triangular Tip - SD1
Beissel is trusted by the biggest and the best
– in India and 44 countries around the world

Significant cost savings | Quality trusted by leading customers | Exported to all continents | 155 quality checks on every needle | Conforms to German DIN standards | Training support and customer care | Useful resources available online

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