

sewing

SCHUHMASCHINEN-NADELN UND AHLEN  
SHOE MACHINE NEEDLES AND AWLS



GROZ-BECKERT®

GROZ-BECKERT®

SCHUHMASCHINEN-NADELN UND AHLEN

SHOE MACHINE NEEDLES AND AWLS

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Groz-Beckert KG, Albstadt, Germany

Hochwertige Stiefel, geschaffen für jahrelangen, harten Einsatz – klassische Schuhe, gefertigt in handwerklicher Tradition – edle Gepäckstücke, genäht aus feinsten Ledern: dies sind Gebrauchsgegenstände für Kunden mit Sinn für das Echte.

Unser 1852 gegründetes Unternehmen beschäftigt weltweit annähernd 7500 hochqualifizierte Mitarbeiter. Ein engmaschiges Netz von Vertriebspartnern und Tochtergesellschaften hält die richtigen Nadeln vor Ort für Sie verfügbar – und zwar in mehr als 150 Ländern.

Auch dieser Katalog soll dazu beitragen, unseren Service zu verbessern. Um Ihnen die Arbeit zu erleichtern, hilft er Ihnen,

- Ihre Nadeln noch schneller zu finden
- alle technischen Details zu erfahren
- alternative Lösungen zu zeigen
- die richtige Stärke und die optimale Spitze auszuwählen
- den Preis zu ermitteln
- und nicht zuletzt zu bestellen.

Mit unserem kompletten Sortiment an Schuhmaschinennadeln, Ahlen und Nähmaschinennadeln höchster Qualität sind Sie für jeden Nähprozess und jedes Leder gerüstet. Gemeinsam mit unseren Vertriebspartnern sorgen wir für weltweite Verfügbarkeit – ab Lager. Unser Nähtechnikum hilft mit gezielten Untersuchungen bei der Lösung von Nähproblemen.

Fordern Sie uns in allen Nadelfragen rund um das Leder, damit Sie mehr Zeit finden – für Ihre Kunden und Ihre Produkte.

**Groz-Beckert – der feine Unterschied.**

Boots of highest value, made to last for years of service – classic fashion shoes, manufactured with traditional methods – fine luggage and leather goods, sewn with genuine, precious leathers: Such goods represent solid, durable values for your customers independent from trends and fashion.

Since 1852 Groz-Beckert has specialized in industrial needles. Today around 7500 highly qualified employees are working for Groz-Beckert around the world. A network of distribution partners and affiliated companies are stocking and servicing our needles in more than 150 countries.

This catalogue is produced as a small improvement of our service. It will help you to:

- find your needles
- learn about technical details
- detect alternatives for processing a new material or new accessories
- select the proper size and the best point style
- get price information and
- last but not least place your order.

With our unique range of high quality shoe machine needles, awls and sewing machine needles you are well prepared for every stitching process with any leather. In cooperation with our distribution partners, we ensure a worldwide availability of each needle – ex stock. Our sewing laboratory helps with tests and evaluations.

Test us for all requirements concerning any kind of leather stitching.

**Groz-Beckert, that subtle difference.**

NADEL-IDENTIFIKATION

NEEDLE-IDENTIFICATION

2

GEGENÜBERSTELLUNG:  
ARTIKEL - KATALOGBEZEICHNUNGCOMPARISON:  
EUROP. DESIGNATION - CATALOGUE DESIGNATION

3

GEGENÜBERSTELLUNG:  
USA BEZEICHNUNG - KATALOGBEZEICHNUNGCOMPARISON:  
USA DESIGNATION - CATALOGUE DESIGNATION

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PRODUKTIONSPROGRAMM

MANUFACTURING PROGRAM

5

TABELLEN

CHARTS

6

SPITZENFORMEN

POINT STYLES

7

NÄHMASCHINENNADELN  
FÜR LEDER (SCHAFTVERARBEITUNG)SEWING MACHINE NEEDLES  
FOR LEATHER (UPPERS)

1

GROZ-BECKERT®

NADEL-IDENTIFIKATIONEN

NEEDLE IDENTIFICATION

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| Code  | Beschreibung                                                                                       | Description                                                                                                       |
|-------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| HN 80 | <b>Einstechnadeln</b><br>gebogene Hakennadeln mit Schneidspitzen,<br>rechts gewendelte Rinne       | <b>Inseam needles</b><br>curved hook needles with cutting points for<br>Welt, Inseam and UISL, right twist groove |
| HN 81 | <b>Einstechnadeln Eppler</b><br>gebogene Hakennadeln mit Schneidspitzen,<br>links gewendelte Rinne | <b>Welt Eppler needles</b><br>curved hook needles with cutting points,<br>left twist groove                       |
| HN 82 | <b>Doppelnadeln, Rapidnadeln</b><br>gebogene Hakennadeln mit Rundspitzen                           | <b>Rapid stitch needles</b><br>curved hook needles with round points                                              |
| HN 83 | <b>Durchnähnadeln</b><br>(Blake, McKay, Solestitch)<br>gerade Hakennadeln mit Schneidspitzen       | <b>McKay needles, Solestitch</b><br>straight hook needles with round points                                       |
| HN 84 | <b>Mehrnadeln, Multinadeln</b><br>gerade Hakennadeln mit Rundspitzen                               | <b>Multi needles</b><br>straight hook needles with round points                                                   |
| HN 86 | <b>Sondernadeln</b><br>Öhrnadeln, Schnürnadeln, Greifernadeln,<br>etc.                             | <b>Special needles</b><br>Looper spindles, Lacing needles, Frobana,<br>etc.                                       |
| HN 87 | <b>Wendenadeln</b><br>gebogene Hakennadeln                                                         | <b>Welt turn needles</b><br>curved hook needles                                                                   |
| HN 90 | <b>Doppelahlen, Rapidahlen</b><br>gebogene Ahlen                                                   | <b>Rapid awls</b><br>curved awls                                                                                  |
| HN 91 | <b>Mehrahlen, Multiahlen</b><br>gerade Ahlen                                                       | <b>Multi awls</b><br>straight awls                                                                                |
| HN 93 | <b>Sonderahlen</b><br>mit Profilkolben (AZX, etc.)                                                 | <b>Special awls</b><br>profile blades/shanks, conical etc.                                                        |
| HN 96 | <b>Maschinenteile</b><br>Treiber (Hämmer)                                                          | <b>Machine parts</b><br>drivers                                                                                   |

GROZ-BECKERT®

Beispiel  
Example

KATALOGBEZEICHNUNG  
CATALOGUE DESIGNATION

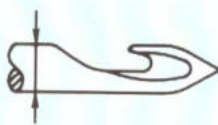
HN 82 / 50 . 195 . 23 G 2 01

Variante  
Variation

Oberfläche  
Surface

... 0 = Standard / Plain  
... 1 = Chrom / Chromium  
... 2 = Nickel

Spitzenform  
Point Style



Nadeldicke

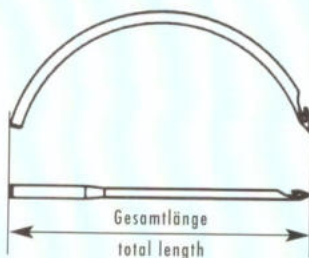
Nm = Millimeter x 100

Needle Size

Nm = Millimètres x 100

Gesamtlänge

abgerundet auf volle  
Millimeter



Total Length

rounded down to full  
millimetres

Gruppenschlüssel / Seite 1.01  
Identification Code / Page 1.01

Hakennadel  
Hook Needle

GROZ-BECKERT®

ARTIKEL - KATALOGBEZEICHNUNG

EUROP. DESTINATION - CATALOGUE DESTINATION



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Artikel  
Europ. Designation

Katalogbezeichnung  
Catalogue Designation

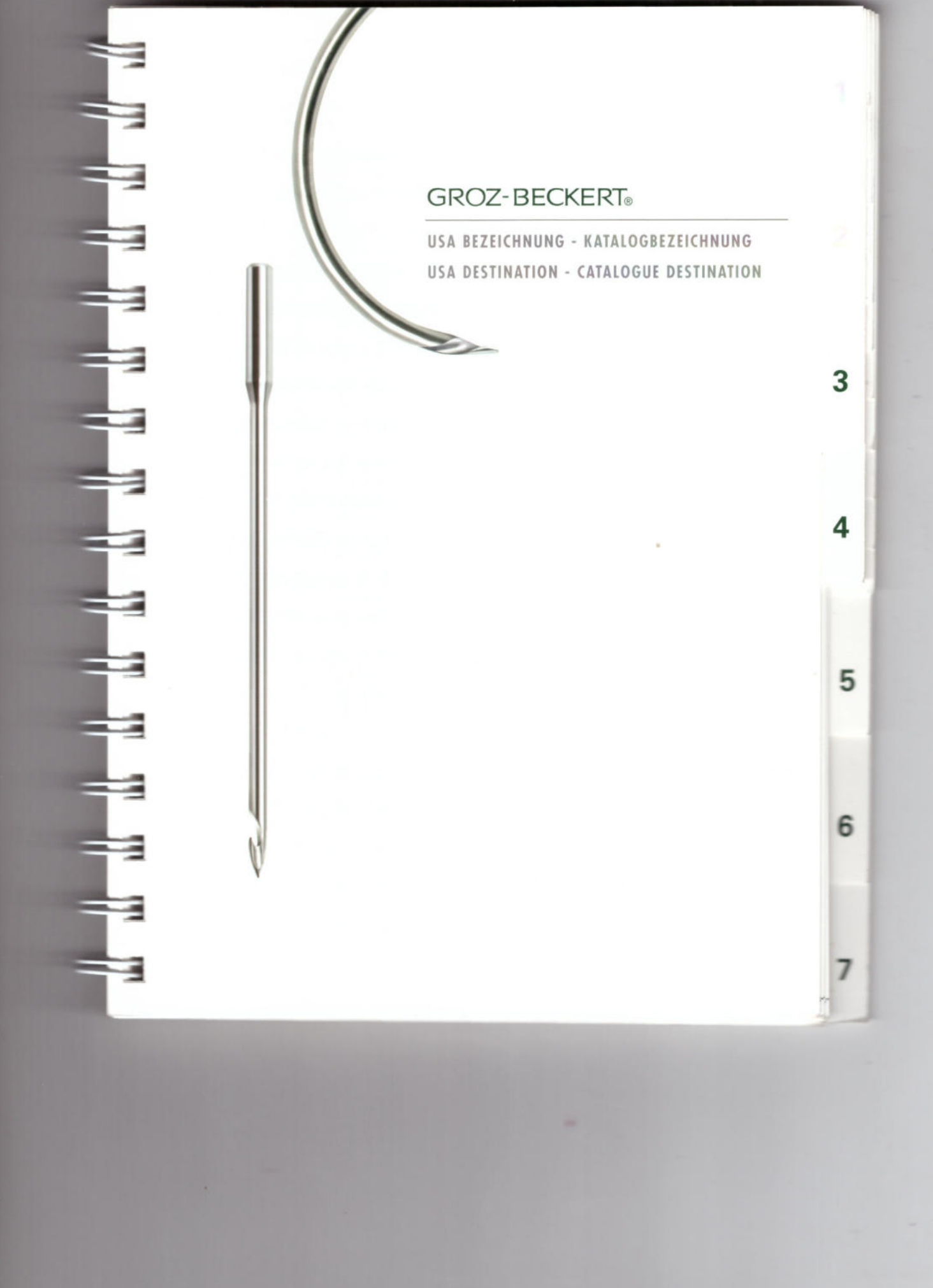
|              |            |   |     |   |     |
|--------------|------------|---|-----|---|-----|
| ELM 60 - 0   | HN 86/164. | X | .30 | G | 202 |
| ELM 60 - 1   | HN 86/164. | X | .30 | G | 201 |
| 65 L - 0     | HN 87/27.  | X | .01 | G | 201 |
| FR 67/1 L    | HN 84/90.  | X | .01 | G | 2   |
| FR 67/1 R    | HN 84/90.  | X | .01 | G | 1   |
| FR 67/2 R    | HN 84/96.  | X | .01 | G | 1   |
| 121 LAC      | HN 86/172. | X | .45 | G | 201 |
| 122 A LAC    | HN 86/172. | X | .45 | G | 202 |
| 122 LAC      | HN 86/172. | X | .45 | G | 203 |
| 320 x 116,2  | HN 96/116. | X | .0  | G | 1   |
| AZX 392 RD   | HN 96/65.  | X | .0  | G | 2   |
| AZX 392 RD B | HN 96/65.  | X | .0  | G | 1   |
| 689 A        | HN 86/57.  | X | .45 | G | 201 |
| 689 F        | HN 86/56.  | X | .45 | G | 201 |
| 689 H        | HN 86/57.  | X | .45 | G | 202 |
| 761 PG       | HN 86/64.  | X | .46 | G | 201 |
| AZX 834      | HN 90/54.  | X | .91 | G | 201 |
| 1143 LG      | HN 84/65.  | X | .23 | G | 1   |
| 1141         | HN 84/50.  | X | .23 | G | 1   |
| 1142 R, UR   | HN 91/38.  | X | .23 | G | 1   |
| 1142 U       | HN 91/38.  | X | .61 | G | 201 |
| 1143         | HN 84/55.  | X | .23 | G | 1   |
| 1143 LG A    | HN 84/63.  | X | .23 | G | 1   |
| 1143 LG DK   | HN 84/65.  | X | .23 | G | 2   |
| 1143 LG Z    | HN 84/65.  | X | .01 | G | 3   |
| 1144         | HN 91/49.  | X | .61 | G | 201 |
| 1144 P       | HN 91/49.  | X | .31 | G | 201 |
| 1145         | HN 84/50.  | X | .23 | G | 2   |
| 1152         | HN 91/47.  | X | .78 | G | 201 |
| 1153/1159    | HN 84/58.  | X | .23 | G | 1   |
| 1154 R       | HN 91/60.  | X | .23 | G | 1   |
| 1155         | HN 84/57.  | X | .23 | G | 1   |
| 1155 A       | HN 84/57.  | X | .23 | G | 2   |
| 1157         | HN 84/58.  | X | .23 | G | 2   |
| 1164         | HN 91/50.  | X | .31 | G | 201 |
| 1551         | HN 86/69.  | X | .46 | G | 201 |
| 4001/4002    | HN 83/53.  | X | .62 | G | 2   |
| 4002 HL      | HN 83/53.  | X | .62 | G | 3   |
| 4011         | HN 83/53.  | X | .63 | G | 1   |
| 4019 T       | HN 83/53.  | X | .62 | G | 1   |
| 4035         | HN 83/53.  | X | .63 | G | 2   |

# GROZ-BECKERT®

Artikel  
Europ. Designation

Katalogbezeichnung  
Catalogue Designation

|                    |           |   |     |   |     |
|--------------------|-----------|---|-----|---|-----|
| 4035 T             | HN 83/53. | X | .63 | G | 3   |
| 4058               | HN 83/58. | X | .63 | G | 1   |
| 5920               | HN 91/48. | X | .61 | G | 201 |
| 5920 VK            | HN 91/48. | X | .31 | G | 201 |
| 5921/1143 DK       | HN 84/56. | X | .23 | G | 1   |
| 6001               | HN 82/50. | X | .23 | G | 1   |
| 6001 W 50/47       | HN 82/50. | X | .23 | G | 5   |
| 6002               | HN 82/50. | X | .23 | G | 2   |
| 6002 W 50/47       | HN 82/50. | X | .23 | G | 4   |
| 6006               | HN 82/52. | X | .23 | G | 2   |
| 6011 R             | HN 82/55. | X | .23 | G | 2   |
| 6014/6014 R        | HN 82/50. | X | .25 | G | 1   |
| 6021               | HN 82/57. | X | .23 | G | 2   |
| 7001               | HN 80/47. | X | .69 | G | 1   |
| 7042/7043 W        | HN 81/52. | X | .53 | G | 1   |
| 7046               | HN 81/61. | X | .53 | G | 1   |
| 7060               | HN 80/47. | X | .69 | G | 3   |
| 7060 GIS           | HN 80/47. | X | .72 | G | 1   |
| 7060 GIS 41/43 eye | HN 80/47. | X | .72 | G | 3   |
| 7060 GIS 41/45 eye | HN 80/47. | X | .72 | G | 2   |
| 7060 GIS Barb B    | HN 80/47. | X | .72 | G | 4   |
| 7063               | HN 80/57. | X | .69 | G | 1   |
| 7064 GIS           | HN 80/57. | X | .72 | G | 1   |
| 7070               | HN 87/28. | X | .23 | G | 1   |
| 8001               | HN 90/39. | X | .67 | G | 1   |
| 8001 SA            | HN 90/44. | X | .67 | G | 1   |
| 8001 SV            | HN 90/43. | X | .67 | G | 1   |
| 8004/8005          | HN 90/41. | X | .58 | G | 1   |
| 8008               | HN 90/44. | X | .67 | G | 2   |
| 8011               | HN 90/39. | X | .67 | G | 2   |
| 8033 SP            | HN 90/44. | X | .55 | G | 2   |
| 8034               | HN 90/69. | X | .32 | G | 201 |
| 8034 FK            | HN 90/69. | X | .32 | G | 202 |
| 8036               | HN 90/45. | X | .55 | G | 1   |
| 8040 Landis        | HN 90/39. | X | .68 | G | 1   |
| 8046               | HN 90/40. | X | .68 | G | 1   |
| 8050               | HN 90/41. | X | .59 | G | 201 |
| 8061               | HN 90/40. | X | .31 | G | 1   |
| 8061 R             | HN 90/40. | X | .23 | G | 1   |
| 8064               | HN 90/42. | X | .23 | G | 1   |
| 8065               | HN 90/47. | X | .23 | G | 1   |
| 11840 (queue bleu) | HN 86/47. | X | .01 | G | 201 |



GROZ-BECKERT®

USA BEZEICHNUNG - KATALOGBEZEICHNUNG

USA DESTINATION - CATALOGUE DESTINATION

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USA Bezeichnung  
USA Designation

Katalogbezeichnung  
Catalogue Designation

|                                      |            |   |     |   |     |
|--------------------------------------|------------|---|-----|---|-----|
| American Shoe Awl                    | HN 91/47.  | X | .78 | G | 201 |
| American Shoe Needle                 | HN 91/57.  | X | .23 | G | 1   |
| Campbell Awl Chisel Point            | HN 91/49.  | X | .31 | G | 201 |
| Campbell Needle 2 5/16"              | HN 84/58.  | X | .23 | G | 1   |
| Campbell Straight Needle             | HN 84/57.  | X | .23 | G | 2   |
| Champion McKay                       | HN 83/53.  | X | .62 | G | 1   |
| Ensign Lacing 60 ELM Shoe Needle     | HN 86/164. | X | .30 | G | 201 |
| Goodyear Inseam Needle               | HN 80/47.  | X | .69 | G | 1   |
| Goodyear Rapid Awl                   | HN 90/39.  | X | .67 | G | 1   |
| Goodyear Rapid Needle                | HN 82/50.  | X | .23 | G | 1   |
| Goodyear Rapid Needle McKay Groove   | HN 82/50.  | X | .23 | G | 2   |
| Inseam Awl Round Point               | HN 90/42.  | X | .23 | G | 1   |
| Inseam Needle GIS Point              | HN 80/47.  | X | .72 | G | 1   |
| Inseam Needle 41 with 45 eye         | HN 80/47.  | X | .72 | G | 2   |
| Inseam Needle 41 with 43 eye         | HN 80/47.  | X | .72 | G | 3   |
| Inseam Needle Barb B GIS Point       | HN 80/47.  | X | .72 | G | 4   |
| Lacing Needle 121                    | HN 86/172. | X | .45 | G | 201 |
| Lacing Needle 122                    | HN 86/172. | X | .45 | G | 203 |
| Lacing Needle 122 A                  | HN 86/172. | X | .45 | G | 202 |
| Landis Awl Chisel Point              | HN 91/50.  | X | .31 | G | 201 |
| Landis C - 12 Needle Curved          | HN 82/50.  | X | .25 | G | 1   |
| Landis McKay Flat Shank              | HN 83/53.  | X | .63 | G | 3   |
| Landis Needle 3/16"                  | HN 84/58.  | X | .23 | G | 2   |
| Looper Spindle 689 A                 | HN 86/57.  | X | .45 | G | 201 |
| Looper Spindle 689 F                 | HN 86/56.  | X | .45 | G | 201 |
| Looper Spindle 689 H                 | HN 86/57.  | X | .45 | G | 202 |
| McKay Needle                         | HN 83/53.  | X | .62 | G | 2   |
| Parkson Corp. Lsp                    | HN 93/43.  | X | .61 | G | 1   |
| Puritan Awl Oval Point               | HN 91/49.  | X | .61 | G | 201 |
| Puritan Awl LS (Oval Point)          | HN 91/41.  | X | .61 | G | 201 |
| Puritan Awl SS (Spear Point)         | HN 91/38.  | X | .59 | G | 201 |
| Puritan Awl SS (Oval Point)          | HN 91/38.  | X | .61 | G | 201 |
| Puritan Needle FS                    | HN 84/55.  | X | .23 | G | 1   |
| Puritan Needle FS 2 9/16"            | HN 84/65.  | X | .23 | G | 1   |
| Puritan Needle LS                    | HN 84/50.  | X | .23 | G | 2   |
| Puritan Needle SS                    | HN 84/50.  | X | .23 | G | 1   |
| Rapid Awl 68 Sharp Point             | HN 90/39.  | X | .68 | G | 1   |
| Rapid Awl Large Shank                | HN 90/39.  | X | .67 | G | 2   |
| Rapid Awl Round Blade (Round Point)  | HN 90/40.  | X | .23 | G | 1   |
| Rapid Awl Round Blade (Chisel Point) | HN 90/40.  | X | .31 | G | 1   |
| Rapid Needle McKay Groove o'size eye | HN 82/50.  | X | .23 | G | 4   |
| Sock Lining Awl                      | HN 91/38.  | X | .23 | G | 1   |

# GROZ-BECKERT®

USA Bezeichnung  
USA Designation

Katalogbezeichnung  
Catalogue Designation

|                                 |           |   |     |   |     |
|---------------------------------|-----------|---|-----|---|-----|
| Solestitch Needle               | HN 83/53. | X | .63 | G | 1   |
| Solestitch Needle XL            | HN 83/58. | X | .63 | G | 1   |
| Sutton Awl 68 Sharp             | HN 90/40. | X | .68 | G | 1   |
| UISL Awl                        | HN 90/47. | X | .23 | G | 1   |
| UISL Needle (69 Point)          | HN 80/57. | X | .69 | G | 1   |
| Union Lock Awl Round Point      | HN 91/60. | X | .23 | G | 1   |
| Union Lock Awl Chisel Point     | HN 91/60. | X | .31 | G | 201 |
| Union Lock Needle               | HN 84/63. | X | .23 | G | 1   |
| USM Taper Blade Hand Awl 1 1/2" | HN 91/38. | X | .01 | G | 1   |
| Victor Needle                   | HN 82/55. | X | .23 | G | 2   |
| 5 R.H. 3-9/16 CML               | HN 84/90. | X | .01 | G | 1   |
| 5 R.L. 3-9/16 CML               | HN 84/90. | X | .01 | G | 2   |
| 5 R.H. 3-13/16 CML              | HN 84/96. | X | .01 | G | 1   |



GROZ-BECKERT®

PRODUKTIONSPROGRAMM

MANUFACTURING PROGRAM

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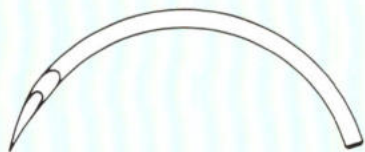
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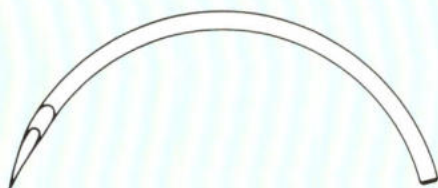
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HN 80/47.240... G1



HN 80/57.240... G1



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN

80

81

82

83

84

86

87

90

91

93

96

96

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**HN 80/47. X .69 G 1**  
Goodyear Inseam Needle  
7001

210 225 240 255  
45 43 41 39

**HN 80/47. X 69 G 3**  
-  
7060

225 240 255  
43 41 39

**HN 80/47. X .72 G 1**  
Inseam Needle GIS Point  
7060 GIS

225 240  
43 41

**HN 80/47. X .72 G 2**  
Inseam Needle 41 with 45 eye  
7060 GIS 41/45 eye

240  
41

**HN 80/47. X .72 G 3**  
Inseam Needle 41 with 43 eye  
7060 GIS 41/43 eye

240  
41

**HN 80/47. X .72 G 4**  
Inseam Needle Barb B GIS Point  
7060 GIS Barb B

225 240  
43 41

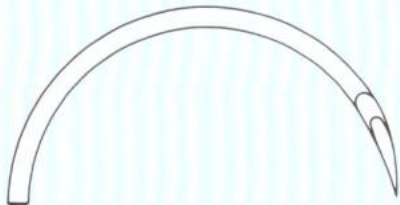
**HN 80/57. X .69 G 1**  
UISL Needle (69 Point)  
7063

240  
41

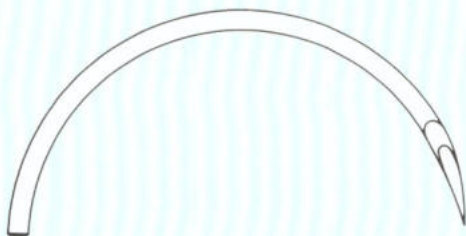
**HN 80/57. X .72 G 1**  
-  
7064 GIS

225 240  
43 41

HN 81/52 .275... G 1



HN 81/61 .275... G 1



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

81

HN 81/52. X .53 G 1

255 265 275

39 37 35

82

7042 / 7043 W

HN 81/52. X 70 G 1

265

37

83

-

84

HN 81/61. X .53 G 1

255 265 275 285

39 37 35 33

86

7046

HN 81/61. X .70 G 1

275

35

87

-

90

91

93

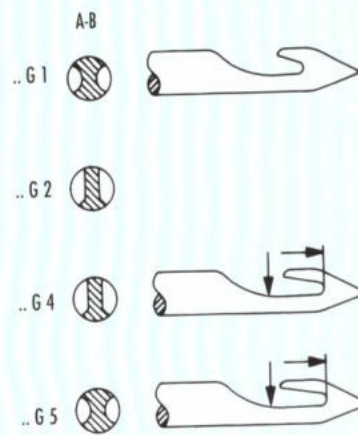
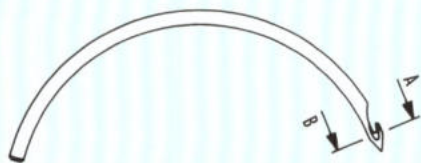
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5

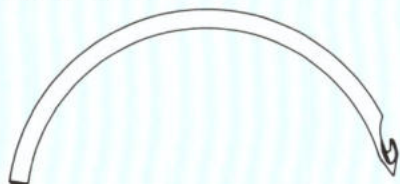
6

7

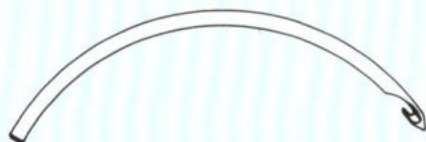
HN 82/50 .195... G 1



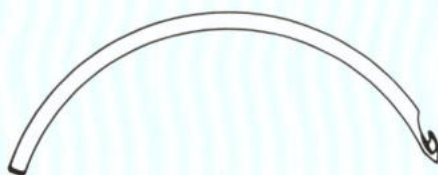
HN 82/52 .255... G 2



HN 82/55 .210... G 2



HN 82/57 .255... G 2



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT

X = Nm  
Nr.

HN 82/50. X .23 G 1

Goodyear Rapid Needle

6001

140 160 180 195 210 225 240 255 265 275  
54 52 50 47 45 43 41 39 37 35

82

HN 82/50. X .23 G 2

Goodyear Rapid Needle McKay Groove

6002

160 180 195 210 225 240 265  
52 50 47 45 43 41 37

83

HN 82/50. X .23 G 4

Rapid Needle McKay Groove, o'size eye

6002 W 50/47

180  
50

84

86

HN 82/50. X .23 G 5

Rapid Needle, o'size eye, Lg. Barb

6001 W 50/47

180 210  
50 45

87

90

HN 82/50. X .25 G 1

Landis C - 12 Needle Curved

6014 / 6014 R

180 195 210  
50 47 45

91

93

HN 82/52. X .23 G 2

-

6006

255  
39

96

HN 82/55. X .23 G 2

Victor Needle

6011 R

210 225  
45 43

HN 82/57. X .23 G 2

-

6021

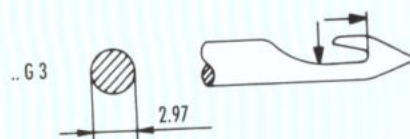
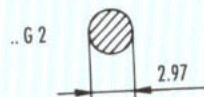
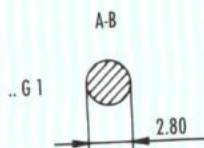
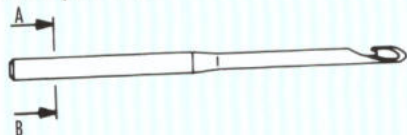
160 180 195 210 225 240 255 265 275  
52 50 47 45 43 41 39 37 35

5

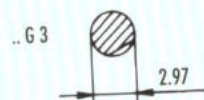
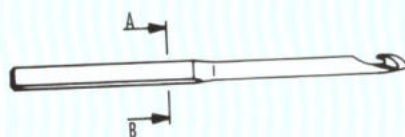
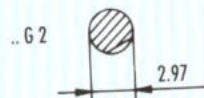
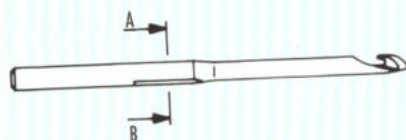
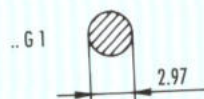
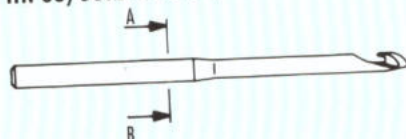
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7

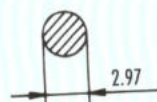
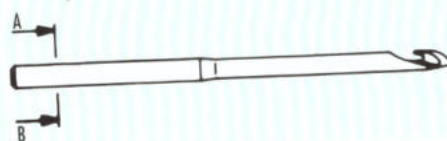
HN 83/53.210.62 G 1



HN 83/53.240.63 G 1



HN 83/58.255.63 G 1



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

X = Nm

Nr.

HN 83/53. X .62 G 1  
Champion McKay  
4019 T

210 255  
33 36

HN 83/53. X .62 G 2  
McKay Needle  
4001 / 4002

195 200 210 215 225 230 240 245 255 260  
2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2  
270 275 285 300 315 320  
7 7 1/2 8 9 10 10 1/2

HN 83/53. X .62 G 3  
-  
4002 HL

225 240 255 270  
4 5 6 7

HN 83/53. X .63 G 1  
Solestitch Needle  
4011

195 225 240  
2 4 5

HN 83/53. X .63 G 2  
-  
4035

195 200 210 215 225 230 240 245 255 270  
2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 7  
285 285  
8

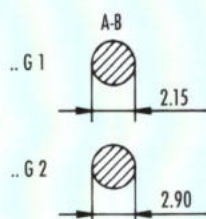
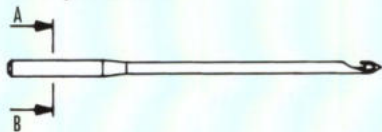
HN 83/53. X .63 G 3  
-  
4035 T

210 225 240 255 270  
3 4 5 6 7

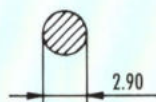
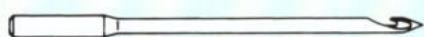
HN 83/58. X .63 G 1  
Solestitch Needle XL  
4058

210 225 240  
3 4 5

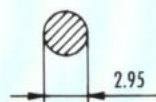
HN 84/50.150.23 G 1



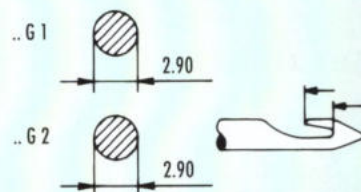
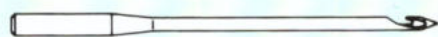
HN 84/55.200.23 G 1



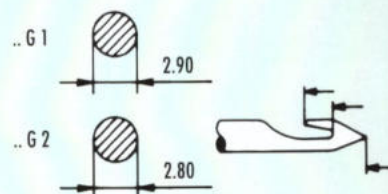
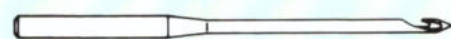
HN 84/56.180.23 G 1



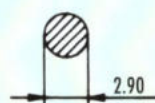
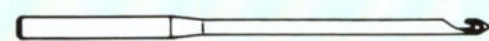
HN 84/57.175.23 G 1



HN 84/58.180.23 G 1



HN 84/63.200.23 G 1



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

X = Nm

Nr.

HN 84/50. X .23 G 1  
Puritan Needle SS  
1141

140 150 160 170 180 200

HN 84/50. X .23 G 2  
Puritan Needle LS  
1145

170  
1 1/2

84

HN 84/55. X .23 G 1  
Puritan Needle FS  
1143

160 180 200

86

HN 84/56. X .23 G 1  
-  
5921 / 1143 DK

160 180 200

87

90

HN 84/57. X .23 G 1  
American Shoe Needle  
1155

160 175 190  
5 6 7

91

93

HN 84/57. X .23 G 2  
Campbell Straight Needle  
1155 A

180  
3

96

HN 84/58. X .23 G 1  
Campbell Needle 2 5/16"  
1153/1159

180 190 220  
2 2 1/2 4

HN 84/58. X .23 G 2  
Landis Needle 3/16"  
1157

170 180 190 200  
13 14 15 16

5

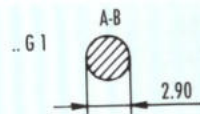
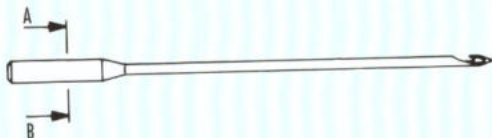
HN 84/63. X .23 G 1  
Union Lock Needle  
1143 LG A

160 170 180 190 200 210 220  
1 1 1/2 2 2 1/2 3 3 1/2 4

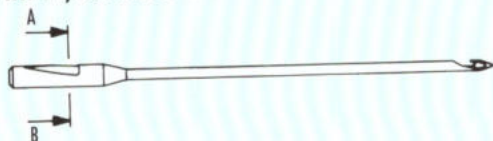
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7

HN 84/65.140.23 G 1



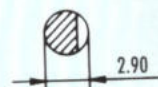
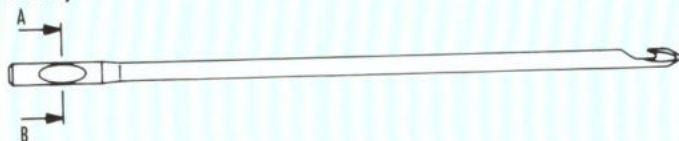
HN 84/65.140.01 G 3



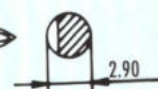
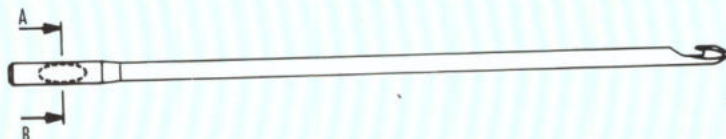
HN 84/90.240.01 G 1



HN 84/90.240.01 G 2



HN 84/96.240.01 G 1



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

X = Nm

Nr.

GROZ-BECKERT®

HN 84/65. X 23 G 1  
Puritan Needle FS 2 9/16"  
1143 LG

140 160 170 180 200 220  
0 1 1 1/2 2 3 4

HN 84/65. X .23 G 2  
-  
1143 LG DK

200

84

HN 84/65. X .01 G 3  
-  
1143 LGZ

140 160 220

86

HN 84/90. X .01 G 1  
5 R.H. 3 9/16 CML  
FR 67/1 R

240  
5

87

90

HN 84/90. X .01 G 2  
5 R.L. 3 9/16 CML  
FR 67/1 L

240  
5

91

HN 84/96. X .01 G 1  
5 R.H. 3 13/16 CML  
FR 67/2 R

240  
5

93

96

5

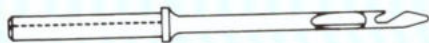
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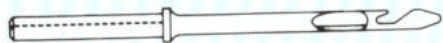
HN 86/47.220.01 G 201



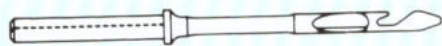
HN 86/56.225.45 G 201



HN 86/57.260.45 G 201



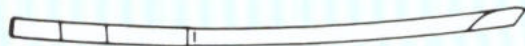
HN 86/57.260.45 G 202



HN 86/64.200.46 G 201



HN 86/69.210.46 G 201



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 86/47. X .01 G 201

220

-  
11840 (queue bleu)

45

HN 86/56. X .45 G 201

225

-  
Looper Spindle 689 F  
689 F

HN 86/57. X .45 G 201

260

-  
Looper Spindle 689 A  
689 A

86

HN 86/57. X .45 G 202

260

-  
Looper Spindle 689 H  
689 H

87

90

HN 86/64. X .46 G 201

200 220

-  
761 PG

4 5

91

HN 86/69. X .46 G 201

180 195 210 225

-  
1551

5 6 7 8

93

96

5

6

7



HN 86/172.350.45 G 203



HN 86/172.350.45 G 202



HN 86/172.350.45 G 201



HN 86/164.310.30 G 201



HN 86/164.310.30 G 202

## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 86/164. X .30 G 201  
Ensign Lacing 60 ELM Shoe Needle  
ELM 60-1

310

HN 86/164. X .30 G 202  
-  
ELM 60-0

310

HN 86/172. X .45 G 201  
Lacing Needle 121  
121LAC

350

86

HN 86/172. X .45 G 202  
Lacing Needle 122 A  
122 A LAC

350

87

90

HN 86/172. X .45 G 203  
Lacing Needle 122  
122 LAC

350

91

93

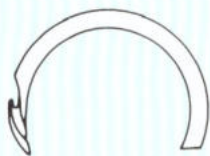
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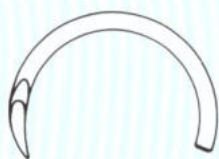
6

7

HN 87/27.245.01 G 201



HN 87/28.240.23 G 1



**KATALOGBEZEICHNUNG**

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 87/27. X .01 G 201

-  
65 L-O

245

HN 87/28. X .23 G 1

-  
7070

240

41

87

90

91

93

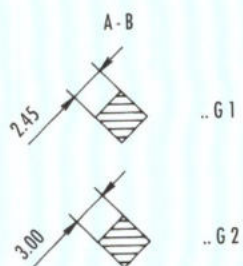
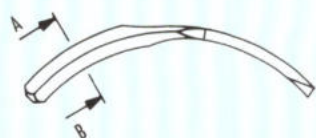
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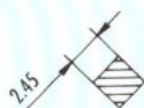
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7

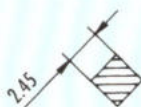
HN 90/39.155.67 G 1



HN 90/40.210.31 G 1



HN 90/41.155.58 G 1



HN 90/42.250.23 G 1



## KATALOGBEZEICHNUNG

USA DESIGNATION

## ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 90/39. X .67 G 1

Goodyear Rapid Awl

8001

|     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 140 | 155 | 165 | 180 | 190 | 205 | 215 | 230 |
| 50  | 47  | 45  | 43  | 41  | 39  | 37  | 35  |

HN 90/39. X .67 G 2

Rapid Awl Large Shank

8011

|     |     |     |
|-----|-----|-----|
| 180 | 205 | 215 |
| 43  | 39  | 37  |

HN 90/39. X .68 G 1

Rapid Awl 68 Sharp Point

8040 Landis

|     |     |     |     |
|-----|-----|-----|-----|
| 155 | 165 | 180 | 190 |
| 47  | 45  | 43  | 41  |

HN 90/40. X .23 G 1

Rapid Awl Round Blade (Round Point)

8061 R

|     |     |     |
|-----|-----|-----|
| 180 | 195 | 210 |
| 50  | 47  | 45  |

HN 90/40. X .31 G 1

Rapid Awl Round Blade (Chisel Point)

8061

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 180 | 195 | 210 | 225 | 240 |
| 50  | 47  | 45  | 43  | 41  |

HN 90/40. X .68 G 1

Sutton Awl 68 Sharp

8046

|     |
|-----|
| 165 |
| 45  |

HN 90/41. X .58 G 1

-

8004/8005

|     |     |     |
|-----|-----|-----|
| 130 | 155 | 180 |
| 52  | 47  | 43  |

HN 90/41. X .59 G 201

-

8050

|     |     |     |     |
|-----|-----|-----|-----|
| 150 | 180 | 200 | 220 |
| 3   | 2   | 1   | 0   |

HN 90/41. X .81 G 201

-

-

220

HN 90/42. X .23 G 1

Inseam Awl Round Point

8064

|     |     |
|-----|-----|
| 210 | 250 |
| 43  | 41  |

90

91

93

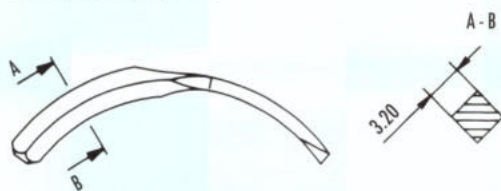
96

5

6

7

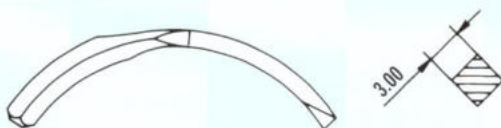
HN 90/43.180.67 G 1



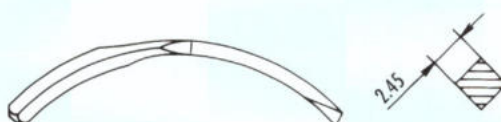
HN 90/44.180.55 G 2



HN 90/44.230.67 G 1



HN 90/45.190.55 G 1



KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 90/43. X .67 G 1

-  
8001 SV

180

HN 90/44. X .55 G 2

-  
8033 SP

165  
45

HN 90/44. X .67 G 1

-  
8001 SA

230  
35

HN 90/45. X .55 G 1

-  
8036

|     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 140 | 155 | 165 | 180 | 190 | 205 | 215 | 230 | 240 |
| 50  | 47  | 45  | 43  | 41  | 39  | 37  | 35  | 33  |

90

91

93

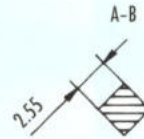
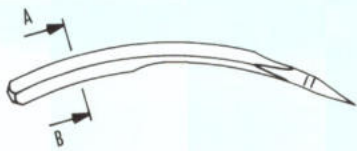
96

5

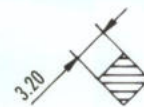
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7

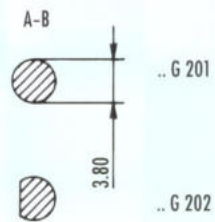
HN 90/47.210.23 G 1



HN 90/54.240.91 G 201



HN 90/69.275.32 G 201



# KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

X = Nm  
Nr.

GROZ-BECKERT®

HN 90/47. X .23 G 1  
UISL Awl  
8065

210  
43

HN 90/54. X .91 G 201  
-  
AZX 834

240  
41

HN 90/69. X .32 G 201  
-  
8034

275  
35

HN 90/69. X .32 G 202  
-  
8034 FK

275  
35

90

91

93

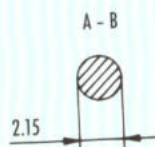
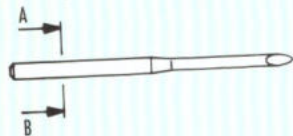
96

5

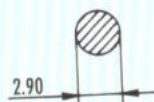
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7

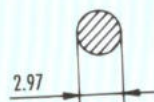
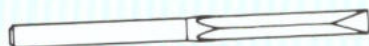
HN 90/38.160.61 G 201



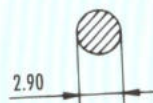
HN 91/47.165.78 G 201



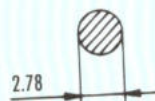
HN 91/48.220.31 G 201



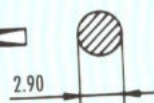
HN 91/49.200.31 G 201



HN 91/50.220.31 G 201



HN 91/60.220.31 G 201



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

X = Nm

Nr.

HN 91/38. X .23 G 1  
 Sock Lining Awl  
 1142 R, UR

150  
 0 1/2

HN 91/38. X .61 G 201  
 Puritan Awl SS (Oval Point)  
 1142 U

140 160 170 180 200  
 0 1 1 1/2 2 3

HN 91/47. X .78 G 201  
 American Shoe Awl  
 1152

165  
 7

HN 91/48. X .31 G 201  
 -  
 5920 VK

200 220

HN 91/48. X .61 G 201  
 -  
 5920

180 200 220

91

HN 91/49. X .31 G 201  
 Campbell Awl Chisel Point  
 1144 P

190 200 220  
 2 1/2 3 4

93

96

HN 91/49. X .61 G 201  
 Puritan Awl Oval Point  
 1144

220  
 4

HN 91/50. X .31 G 201  
 Landis Awl Chisel Point  
 1164

210 220  
 16 17

5

HN 91/60. X .23 G 1  
 Union Lock Awl Round Point  
 1154 R

210 220  
 3 1/2 4

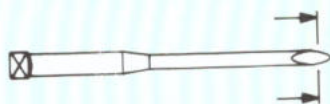
HN 91/60. X .31 G 201  
 Union Lock Awl Chisel Point  
 -

180 190 200 220 240  
 2 2 1/2 3 4 5

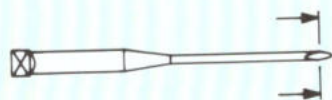
6

7

HN 93/43.190.61 G 1



HN 93/43.115.61 G 2



# KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 93/43. X .61 G 1  
Parkson Corp. Lsp

190

HN 93/43. X .61 G 2  
S 1168

115

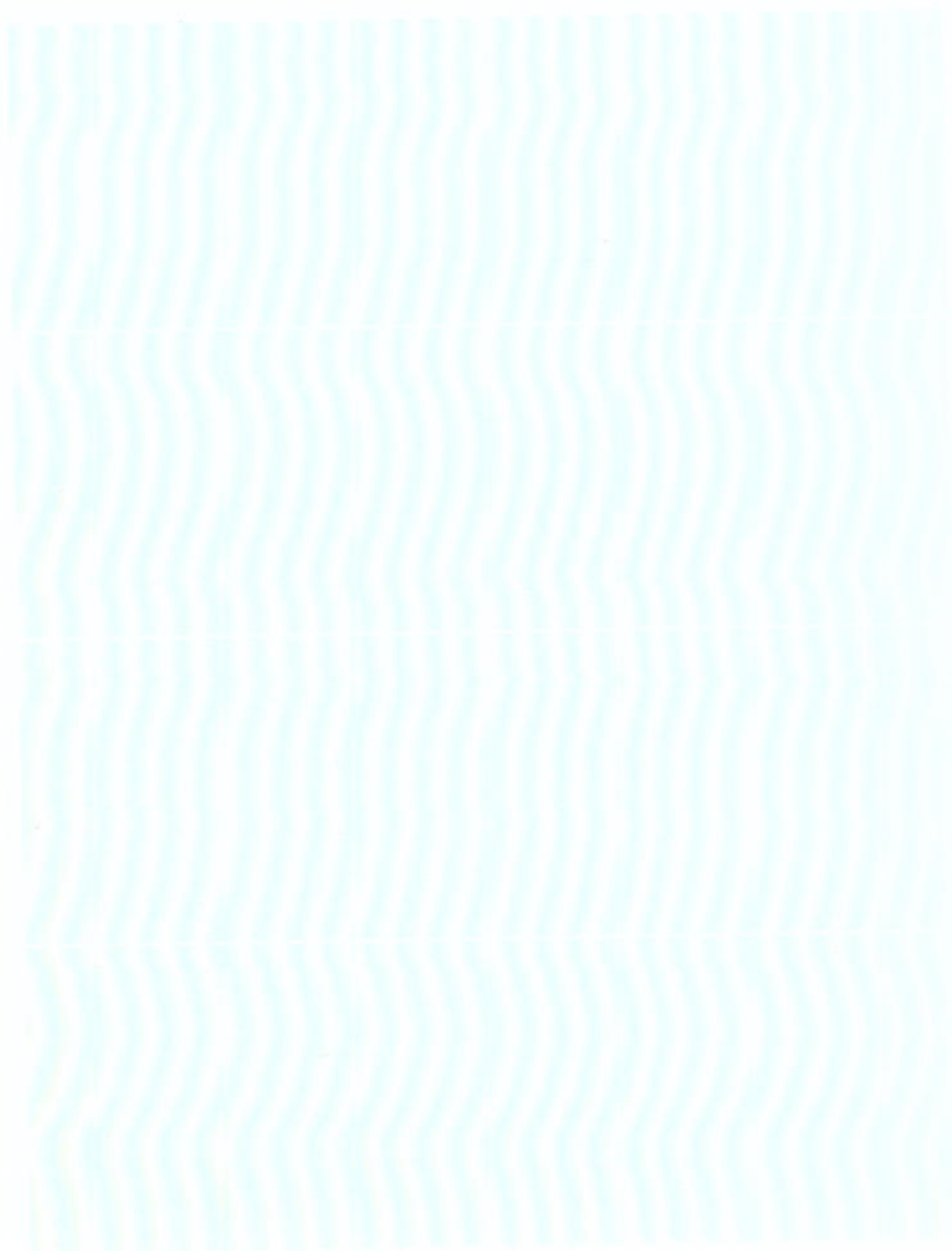
93

96

5

6

7



## KATALOGBEZEICHNUNG

USA DESIGNATION

ARTIKEL

GROZ-BECKERT®

X = Nm

Nr.

HN 96/65. X .0 G 1

270

-  
AZX 392 Rd B

HN 96/65. X .0 G 2

270

-  
AZX 392 RD

HN 96/116. X .0 G 1

320

-  
320 x 116,2

96

5

6

7

4.30



GROZ-BECKERT®

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TABELLEN  
CHARTS

1

2

3

4

5

6

7

HN 80 / 81

ZUORDNUNG: NADELN - AHLEN  
ALLOCATION: NEEDLES - AWLS

GROZ-BECKERT®

| Nadeln<br>Needles                       | Ahlen<br>Awls               | Alternativen<br>Alternatives   |
|-----------------------------------------|-----------------------------|--------------------------------|
| HN 80/47 ... 69 G1 (7001)               | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/47 ... 69 G3 (7060)               | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/47 ... 72 G1 (7060 GIS)           | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/47 ... 72 G2 (7060 GIS 41/45 eye) | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/47 ... 72 G3 (7060 GIS 41/43 eye) | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/47 ... 72 G4 (7060 GIS Barb B)    | HN 90/42 ... 23 G1 (8064)   |                                |
| HN 80/57 ... 69 G1 (7063)               | HN 90/47 ... 23 G1 (8065)   |                                |
| HN 80/57 ... 72 G1 (7064 GIS)           | HN 90/47 ... 23 G1 (8065)   |                                |
| HN 81/52 ... 53 G1 (7042/7043 W)        | HN 90/69 ... 32 G201 (8034) | HN 90/69 ... 32 G202 (8034 FK) |
| HN 81/52 ... 70 G1 (-)                  | HN 90/69 ... 32 G201 (8034) | HN 90/69 ... 32 G202 (8034 FK) |
| HN 81/61 ... 53 G1 (7046)               | HN 90/69 ... 32 G201 (8034) | HN 90/69 ... 32 G202 (8034 FK) |
| HN 81/61 ... 70 G1 (-)                  | HN 90/69 ... 32 G201 (8034) | HN 90/69 ... 32 G202 (8034 FK) |

**HN 82**  
**ZUORDNUNG: NADELN - AHLEN**  
**ALLOCATION: NEEDLES - AWLS**

| Nadeln<br>Needles                 | Ahlen<br>Awls                    | Alternativen<br>Alternatives |
|-----------------------------------|----------------------------------|------------------------------|
| HN 82/50 ... 23 G1 (6001)         | HN 90/39 ... 67 G1 (8001)        | HN 90/39 ... 67 G2 (8011)    |
| HN 82/50 ... 23 G2 (6002)         | HN 90/41 ... 59 G201 (8050)      | HN 90/59 ... 81 G201 (-)     |
| HN 82/50 ... 23 G4 (6002 W 50/47) | HN 90/39 ... 68 G1 (8040 Landis) |                              |
| HN 82/50 ... 23 G5 (6001 W 50/47) | HN 90/39 ... 68 G1 (8040 Landis) |                              |
| HN 82/50 ... 25 G1 (6014/6014 R)  | HN 90/39 ... 68 G1 (8040 Landis) |                              |
| HN 82/52 ... 23 G2 (6006)         | HN 90/41 ... 58 G1 (8004/8005)   |                              |
| HN 82/55 ... 23 G2 (6011 R)       | HN 90/45 ... 55 G1 (8036)        |                              |
| HN 82/57 ... 23 G2 (6021)         | HN 90/45 ... 55 G1 (8036)        |                              |

In Relation zur Nadelstärke immer die nächst dünnere Ahle verwenden.  
 Always choose the next smaller awl in relation to the needle size.

# HN 84

## ZUORDNUNG: NADELN - AHLEN ALLOCATION: NEEDLES - AWLS

GROZ-BECKERT®

| Nadeln<br>Needles  | Ahlen<br>Awls        | Alternativen<br>Alternatives |
|--------------------|----------------------|------------------------------|
| HN 84/50 ... 23 G1 | HN 91/38 ... 23 G1   | HN 91/38 ... 61 G201         |
| HN 84/50 ... 23 G2 | HN 91/41 ... 61 G201 | (1142 U)                     |
| HN 84/55 ... 23 G1 | HN 91/48 ... 61 G201 | HN 91/48 ... 31 G201         |
| HN 84/56 ... 23 G1 | HN 91/48 ... 61 G201 | (5920 VK)                    |
| HN 84/57 ... 23 G1 | HN 91/47 ... 78 G201 | HN 91/48 ... 31 G201         |
| HN 84/57 ... 23 G2 | HN 91/47 ... 78 G201 | (5920 VK)                    |
| HN 84/58 ... 23 G1 | HN 91/49 ... 31 G201 | HN 91/49 ... 61 G201         |
| HN 84/58 ... 23 G2 | HN 91/50 ... 31 G201 | (1144)                       |
| HN 84/63 ... 23 G1 | HN 91/60 ... 23 G201 | HN 91/60 ... 31 G201         |
| HN 84/65 ... 01 G3 | HN 91/48 ... 61 G201 | (-)                          |
| HN 84/65 ... 23 G1 | HN 91/48 ... 61 G201 | HN 91/48 ... 31 G201         |
| HN 84/65 ... 23 G2 | HN 91/48 ... 61 G201 | (5920 VK)                    |

**DICKENVERGLEICHSTABELLE**  
**SIZE COMPARISON TABLE**

GROZ-BECKERT®

|           |                         | Nm   | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350               |                   |
|-----------|-------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------|-------------------|
| HN 80/... | INSEAM / GIS / WEIT     |      |     |     |     |     |     |     |     |     |     | 45  | 43  | 41  | 39  |     |     |     |     |     |     |     |     |     |     |                   | EINSTECHNADLEN    |
| HN 81/... | EPPLER NEEDLES          |      |     |     |     |     |     |     |     |     |     |     | 43  | 41  | 39  |     |     | 37  | 35  | 33  |     |     |     |     |     | EINSTECHN. EPPLER |                   |
| HN 82/... | RAPID NEEDLES           | 56   |     | 54  |     | 52  |     |     | 50  | 47  |     | 45  | 43  | 41  | 39  | 37  | 35  |     |     |     |     |     |     |     |     |                   | DOPPELNADELN      |
|           | LANDIS                  |      | 20  |     | 21  |     |     |     | 22  | 23  |     | 24  | 25  | 26  | 27  |     |     |     |     |     |     |     |     |     |     |                   |                   |
| HN 83/... | McKay / BLAKE           |      |     |     |     |     |     |     | 1   | 1/2 | 2   | 3   | 1/2 | 4   | 5   | 1/2 | 6   | 1/2 | 7   | 1/2 | 8   | 9   | 10  | 11  | 12  |                   | DURCHNAHL.        |
|           | CHAMPION                |      |     |     |     |     |     |     |     | 32  | 33  | 34  | 35  | 36  | 37  |     |     |     |     |     |     |     |     |     |     |                   |                   |
| HN 84/... | 1141 etc. MULTI NEEDLES | 37/0 | 2/0 | 0   | 1/2 | 1   | 1/2 | 2   | 3   | 1/2 | 3   | 4   | 5   | 6   | 7   |     |     |     |     |     |     |     |     |     |     |                   | MEHRNADELN        |
|           | 1155                    |      |     |     |     | 5   | 6   | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
|           | 1155 A                  |      |     | 6   | 5   | 4   | 3   | 2   | 1   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
|           | 1157 / 1167 / LANDIS    |      |     | 10  | 11  | 12  | 13  | 14  | 15  | 16  |     | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
|           | 5921                    |      |     | 140 | 160 | 180 | 200 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
| HN 90/... | RAPID AWLS: 8001...     | 52   |     | 50  | 47  | 45  | 43  | 41  | 39  | 37  | 35  | 33  |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | DOPPELNAHLN       |
|           | LANDIS                  |      | 21  | 22  | 23  | 24  | 25  | 26  | 27  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   |                   |
|           | 8034 / EPPLER           |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | 39  | 37  | 35  | 33  |     |     |     |     | EPPLER NAHLN      |                   |
|           | 8050 Rd. Bld.           |      |     |     | 3   |     | 2   |     | 1   |     | 0   | 2/0 |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | RUNDSCHAFT A.     |
|           | 8061 Rd. Bld.           |      |     |     |     | 52  |     | 50  | 47  | 45  | 43  | 41  | 39  | 37  | 35  | 33  |     |     |     |     |     |     |     |     |     |                   | RUNDSCHAFT A.     |
|           | INSEAM / USSL. AWLS     |      |     |     |     |     |     | 47  |     |     |     |     |     |     |     |     |     | 41  |     |     |     |     |     |     |     |                   | 8064 / 8065 - GIS |
| HN 91/... | MULTI AWLS              |      |     | 0   | 1/2 | 1   | 1/2 | 2   | 3   | 1/2 | 4   | 5   | 6   | 7   | 8   |     |     |     |     |     |     |     |     |     |     |                   | MEHRAHLN          |
|           | 1152 / 1146             |      |     | 5   | 6   | 7   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | MEHRAHLN          |
|           | 1164 / LANDIS           |      |     |     | 10  | 11  | 12  | 13  | 14  | 15  | 16  | 17  |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | MEHRAHLN          |
|           | 5920 / 5930             |      |     | 140 | 160 | 180 | 200 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |                   | MEHRAHLN          |
|           |                         | Nm   | 125 | 135 | 145 | 155 | 165 | 175 | 185 | 195 | 205 | 215 | 225 | 235 | 245 | 255 | 265 | 275 | 285 | 295 | 305 | 315 | 325 | 335 | 345 |                   |                   |

| Nm / Nr. | HN 80 / ... |                          |                           | HN 81 / ... |                          |                           |
|----------|-------------|--------------------------|---------------------------|-------------|--------------------------|---------------------------|
|          | Leinen      | PES<br>Faser<br>Fachzahl | PES<br>Endlos<br>Fachzahl | Leinen      | PES<br>Faser<br>Fachzahl | PES<br>Endlos<br>Fachzahl |
| 180/50   | 4           | 4                        |                           |             |                          |                           |
| 195/47   | 5 - 6       | 5 - 6                    |                           |             |                          |                           |
| 210/45   | 7 - 8       | 7 - 8                    | 6                         |             |                          |                           |
| 225/43   | 8 - 9       | 8 - 9                    | 7 - 8                     |             |                          |                           |
| 240/41   | 9 - 10      | 9 - 10                   | 8 - 9                     | 10          | 10                       | 10                        |
| 255/39   | 10 - 12     | 10 - 12                  | 10                        | 12          | 12                       | 10 - 12                   |
| 265/37   |             |                          |                           | 14          | 14                       | 14                        |
| 275/35   |             |                          |                           | 16          | 16                       | 14 - 16                   |
| 285/33   |             |                          |                           | 18          |                          |                           |
| Nm / No. | Cord No.    | Cord No.<br>Spun         | Cord No.<br>Filam.        | Cord No.    | Cord No.<br>Spun         | Cord No.<br>Filam.        |
|          | Flax        | PES                      | PES                       | Flax        | PES                      | PES                       |

**ZUORDNUNG: NADELN - GARNE**  
**ALLOCATION: NEEDLES - THREADS**

| Nadeln<br>Needles |          | Ahlen<br>Awls           | HN 82 ...                |                    |                      |                                               |                   |                                    |                                   |       |                |  |
|-------------------|----------|-------------------------|--------------------------|--------------------|----------------------|-----------------------------------------------|-------------------|------------------------------------|-----------------------------------|-------|----------------|--|
|                   |          |                         | PES<br>Faser<br>Fachzahl | Endlos<br>Fachzahl | Bondiert<br>Fachzahl | Umspinnungszwirn<br>PES / BW<br>Nm / Fachzahl |                   | Leinen-<br>Garn<br>Fachzahl        | Flechtgarne<br>PES<br>Ø (mm)      |       | Leinen-<br>Nr. |  |
| Nm / Nr.          | Nm / Nr. | Nm / Nr.                |                          |                    |                      |                                               |                   |                                    |                                   |       |                |  |
| 140/54            | 130/52   | 3 - 4                   |                          |                    |                      | 15                                            | 15 / 4 - 15 / 5   | 4 - 5                              | 0,4 - 0,6                         | 4 - 6 | 6              |  |
| 160/52            | 140/50   | 4 - 5                   |                          | 5                  | 3                    | 11                                            | 15 / 5 - 15 / 6   | 5 - 6                              | 0,6 - 0,7                         | 6 - 7 | 7              |  |
| 180/50            | 155/47   | 5 - 6                   |                          | 6                  | 4                    | 8                                             | 15 / 7 - 15 / 8   | 7 - 8                              | 0,8                               | 8     | 8              |  |
| 195/47            | 165/45   | 6 - 8                   |                          | 8                  | 5                    | 5                                             | 15 / 8 - 15 / 10  | 8 - 10                             | 0,9                               | 9     | 9              |  |
| 210/45            | 180/43   | 8 - 10                  |                          | 10                 | 6                    |                                               | 15 / 10 - 15 / 12 | 10                                 | 1,0                               | 10    | 10             |  |
| 225/43            | 190/41   | 10 - 12                 |                          | 10 - 12            |                      |                                               | 15 / 12           | 10 - 12                            | 1,2                               | 12    | 10 - 12        |  |
| 240/41            | 205/39   | 12                      |                          | 12                 |                      |                                               | 15 / 12 - 15 / 14 | 12                                 | 1,4                               | 14    | 12             |  |
| 255/39            | 215/37   | 14                      |                          | 12 - 14            |                      |                                               | 15 / 14           | 12 - 14                            |                                   |       | 12 - 14        |  |
| 265/37            | 230/35   | 16                      |                          | 14                 |                      |                                               |                   | 14 - 16                            |                                   |       | 14             |  |
| 275/35            | 240/33   | 18                      |                          |                    |                      |                                               |                   | 16 - 18                            |                                   |       | 14 - 16        |  |
| Nm / No.          | Nm / No. | Cord No.<br>Spun<br>PES |                          | Cord No.<br>Filam. | Cord No.<br>Bonded   | Nm<br>PES / Cotton<br>Core Spun Thread        | Nm / Cord No.     | Cord No.<br>Flax Thread<br>(Linen) | Dia. (mm)<br>PES<br>Braided Yarns | No.   | No.<br>Flax    |  |

Der Spulenfaden sollte jeweils eine Nr. dünner als der Nadelfaden gewählt werden. (Steppstich)  
 The bobbin thread should be chosen one size smaller than the needle thread. (Lock Stitch)

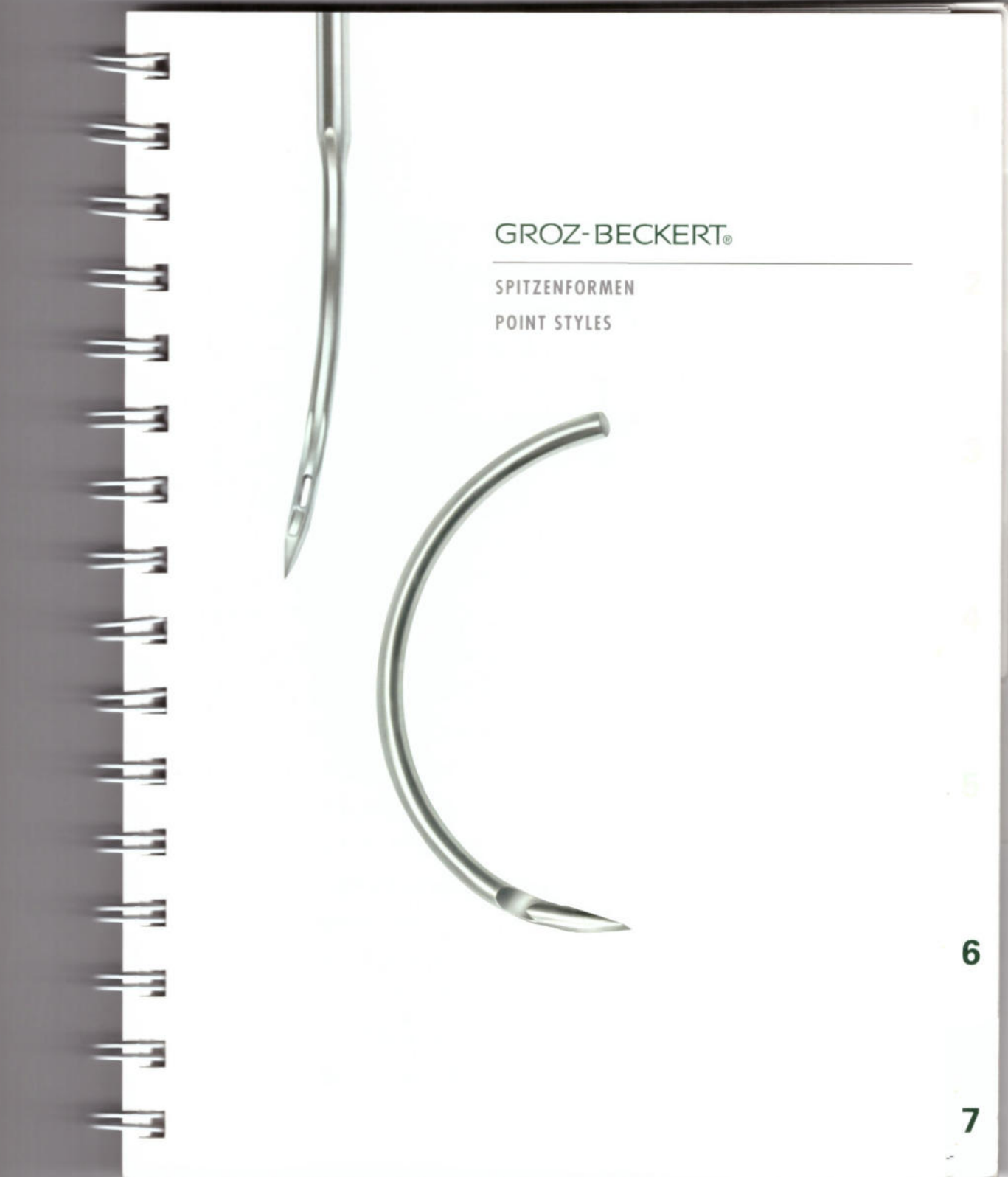
ZUORDNUNG: NADeln - GARNE  
ALLOCATION: NEEDLES - THREADS

GROZ-BECKERT®

| Nadeln<br>Needles | HN 83/ 53.xxx. 62 G1, - G 2 |              |               |    | HN 83/ 53.xxx. 62 G3 |              |               |    | HN 83/ 53.xxx. 63 G1, - G2, - G3<br>HN 83/ 58.xxx. 63 G1 |              |               |    |
|-------------------|-----------------------------|--------------|---------------|----|----------------------|--------------|---------------|----|----------------------------------------------------------|--------------|---------------|----|
|                   | Leinen                      | PES<br>Faser | PES<br>Endlos | Nm | Leinen               | PES<br>Faser | PES<br>Endlos | Nm | Leinen                                                   | PES<br>Faser | PES<br>Endlos | Nm |
| Nm / Nr.          | Fachzahl                    | Fachzahl     |               |    | Fachzahl             | Fachzahl     |               |    | Fachzahl                                                 | Fachzahl     |               |    |
| 180/1 1/2         |                             |              |               |    | 3 - 6                | 3 - 6        | 11/4          |    | 3 - 5                                                    | 3 - 5        |               |    |
| 195/2             | 3                           | 3            |               |    | 4 - 7                | 4 - 7        | 11/5          |    | 3 - 6                                                    | 3 - 6        | 11/3          |    |
| 210/3             | 3 - 4                       | 3 - 4        |               |    | 4 - 8                | 4 - 8        | 11/6          |    | 4 - 6                                                    | 4 - 6        | 11/4          |    |
| 225/4             | 4 - 5                       | 4 - 5        | 11/3          |    | 5 - 8                | 5 - 8        | 11/7          |    | 5 - 7                                                    | 5 - 7        | 11/5          |    |
| 240/5             | 5 - 6                       | 5 - 6        | 11/4          |    | 5 - 9                | 5 - 9        | 11/8          |    | 6 - 7                                                    | 5 - 7        | 11/6          |    |
| 255/6             | 6 - 7                       | 6 - 7        | 11/5          |    | 5 - 10               | 5 - 10       | 11/8          |    | 7 - 8                                                    | 7 - 8        | 11/7          |    |
| 270/7             | 7                           | 7            | 11/6          |    | 6 - 10               | 6 - 10       | 11/10         |    | 8 - 9                                                    | 8 - 9        | 11/8          |    |
| 285/8             | 8                           | 8            | 11/7          |    | 6 - 11               | 6 - 11       | 11/10         |    | 9                                                        | 9            | 11/8          |    |
| 300/9             | 9                           | 9            | 11/8          |    | 7 - 11               | 7 - 11       | 11/11         |    | 10                                                       | 10           | 11/10         |    |
| 315/10            | 10                          | 10           | 11/10         |    | 9 - 12               | 9 - 12       | 11/12         |    | 10                                                       | 10           | 11/10         |    |
| 330/11            |                             |              |               |    | 10 - 14              | 10 - 14      |               |    |                                                          |              |               |    |
| 345/12            |                             |              |               |    | 14 - 16              | 14 - 16      |               |    |                                                          |              |               |    |
| Nm / No.          | Cord No.                    | Cord No.     | Nm<br>Filam.  |    | Cord No.             | Cord No.     | Nm<br>Filam.  |    | Cord No.                                                 | Cord No.     | Nm<br>Filam.  |    |
|                   | Flax                        | Spun<br>PES  | PES           |    | Flax                 | Spun<br>PES  | PES           |    | Flax                                                     | Spun<br>PES  | PES           |    |

**ZUORDNUNG: NADELN - GARNE**  
**ALLOCATION: NEEDLES - THREADS**

| Nadeln<br>Needles | HN 84/ ... |          | PES                     |                    | PES                       |                                                 | Umspinnungszwirn |  | Nm |
|-------------------|------------|----------|-------------------------|--------------------|---------------------------|-------------------------------------------------|------------------|--|----|
|                   | Leinen     | Fachzahl | Faser<br>Fachzahl       | Endlos<br>Fachzahl | PES<br>Endlos<br>Fachzahl | PES / BW<br>Nm / Fachzahl                       |                  |  |    |
| Nm / Nr.          |            |          |                         |                    |                           |                                                 |                  |  |    |
| 120/000           | 3          |          | 3                       |                    |                           | 15 / 3                                          |                  |  |    |
| 130/00            | 4          |          | 4                       |                    | 5                         | 15 / 4                                          |                  |  |    |
| 140/0             | 5          |          | 5                       |                    |                           |                                                 |                  |  | 15 |
| 150/0 1/2         | 6          |          | 6                       |                    | 6                         | 15 / 5                                          |                  |  |    |
| 160/1             | 7          |          | 7                       |                    |                           |                                                 |                  |  | 11 |
| 170/1 1/2         | 8          |          | 8                       |                    | 8                         | 15 / 6                                          |                  |  |    |
| 180/2             | 9          |          | 9                       |                    |                           | 15 / 7                                          |                  |  | 8  |
| 190/2 1/2         | 9 - 10     |          | 9 - 10                  |                    | 10                        | 15 / 8                                          |                  |  |    |
| 200/3             | 11         |          | 11                      |                    |                           | 15 / 8 - 15 / 10                                |                  |  | 5  |
| 210/3 1/2         | 11 - 12    |          | 11 - 12                 |                    | 10 - 12                   | 15 / 10                                         |                  |  |    |
| 220/4             | 12         |          | 12                      |                    |                           | 15 / 10 - 15 / 12                               |                  |  |    |
| 230/4 1/2         | 12 - 14    |          | 12 - 14                 |                    | 12                        | 15 / 12                                         |                  |  |    |
| 240/5             | 14         |          | 14                      |                    |                           | 15 / 12 - 15 / 14                               |                  |  |    |
| 250/5 1/2         | 14 - 16    |          |                         |                    |                           |                                                 |                  |  |    |
| 260/6             |            |          |                         |                    |                           |                                                 |                  |  |    |
| Nm / No.          | Cord No.   |          | Cord No.<br>Spun<br>PES |                    | Cord No.<br>Filam.<br>PES | Nm / Cord No.<br>PES/Cotton<br>Core Spun Thread |                  |  | Nm |
|                   | Flax       |          |                         |                    |                           |                                                 |                  |  |    |



GROZ-BECKERT®

SPITZENFORMEN

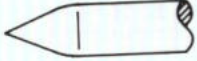
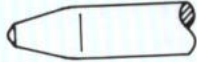
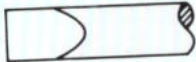
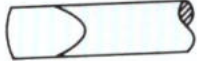
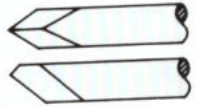
POINT STYLES

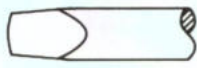
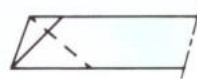
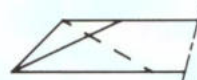
6

7

| Katalog-<br>Bezeichnung<br>Catalogue-<br>Designation | Spitzen Nr.<br>Point No. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------------------------------------------------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|                                                      | 01                       | 23 | 25 | 30 | 31 | 32 | 45 | 46 | 53 | 55 | 58 | 59 | 61 | 62 | 63 | 67 | 68 | 69 | 70 | 72 | 78 | 81 | 91 |
| HN 80/47                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  |    | •  |    |    |    |
| HN 80/57                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  |    | •  |    |    |    |
| HN 81/52                                             |                          |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |
| HN 81/61                                             |                          |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |
| HN 82/50                                             |                          | •  | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 82/52                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 82/55                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 82/57                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 83/53                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |    |    |    |
| HN 83/58                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |
| HN 84/50                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/55                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/56                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/57                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/58                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/63                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/65                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/90                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 84/96                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/47                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/56                                             |                          |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/57                                             |                          |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/64                                             |                          |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/69                                             |                          |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/164                                            |                          |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 86/172                                            |                          |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 87/27                                             | •                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 87/28                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 90/39                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |
| HN 90/40                                             |                          | •  |    |    | •  |    |    |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |
| HN 90/41                                             |                          | •  |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |    |    |    | •  |    |
| HN 90/42                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 90/43                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  | •  |    |    |    |    |    |
| HN 90/44                                             |                          |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    | •  |    |    |    |    |    |    |
| HN 90/45                                             |                          |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |
| HN 90/47                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 90/54                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  |
| HN 90/69                                             |                          |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 91/38                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |
| HN 91/47                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |
| HN 91/48                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |
| HN 91/49                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |
| HN 91/50                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |
| HN 91/60                                             |                          | •  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| HN 93/43                                             |                          |    |    |    |    |    |    |    |    |    |    |    |    | •  |    |    |    |    |    |    |    |    |    |

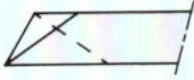
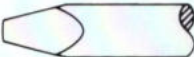
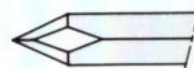
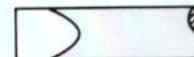
**SPITZENFORMEN**  
**POINT STYLES**

| Code | Beschreibung          | Description         | Skizze / Sketch                                                                       | Symbol                                                                                |
|------|-----------------------|---------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 01   | Rundspitze            | Round Point         |     |    |
| 23   | Rundspitze gerundet   | Round Point rounded |     |    |
| 25   | Körnerspitze (Landis) | Ball Point (Landis) |     |    |
| 30   | Exzentrische Spitze   | Eccentric Point     |    |    |
| 31   | Meißelspitze          | Chisel Point        |  |  |
| 32   | Meißelspitze oval     | Chisel Point oval   |  |  |
| 45   | Schwere Kugelspitze   | Heavy Ball Point    |  |  |
| 46   | Messerschneide        | Knife Point         |  |  |

| Code | Beschreibung                     | Description                  | Skizze / Sketch                                                                       | Symbol                                                                                |
|------|----------------------------------|------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 53   | Welt Eppler<br>Spatenspitze      | Welt Eppler<br>Cross Point   |    |    |
| 55   | Diagonalschneide 15°             | Diagonal Cutting<br>Edge 15° |    |    |
| 58   | Diagonalschneide 35°<br>(Landis) | Diagonal Cutting<br>Edge 35° |    |    |
| 59   | Speerspitze                      | Spear Point                  |    |    |
| 61   | Lange ovale Spitze               | Long oval Point              |  |  |
| 62   | McKay Spitze                     | McKay Point                  |  |  |
| 63   | Sohlen-Stich-Spitze              | Sole stitch Point            |  |  |
| 67   | Diagonalschneide 10°             | Diagonal Cutting<br>Edge 10° |  |  |

**SPITZENFORMEN  
POINT STYLES**

GROZ-BECKERT®

| Code | Beschreibung         | Description               | Skizze / Sketch                                                                      | Symbol                                                                                |
|------|----------------------|---------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 68   | Diagonalschneide 27° | Diagonal Cutting Edge 27° |    |    |
| 69   | Welt Spitze mittel   | Welt Point medium         |    |    |
| 70   | Welt Spitze schmal   | Welt Point small          |    |    |
| 72   | Welt GIS Spitze      | Welt GIS Point            |    |    |
| 78   | Spezial Speerspitze  | Special Spear Point       |  |  |
| 81   | Quadratspitze        | Square Point              |  |  |
| 91   | Meißelspitze kurz    | Chisel Point short        |  |  |

GROZ-BECKERT®

NÄHMASCHINENNADELN FÜR LEDER

SEWING MACHINE NEEDLES FOR LEATHER



1

2

3

4

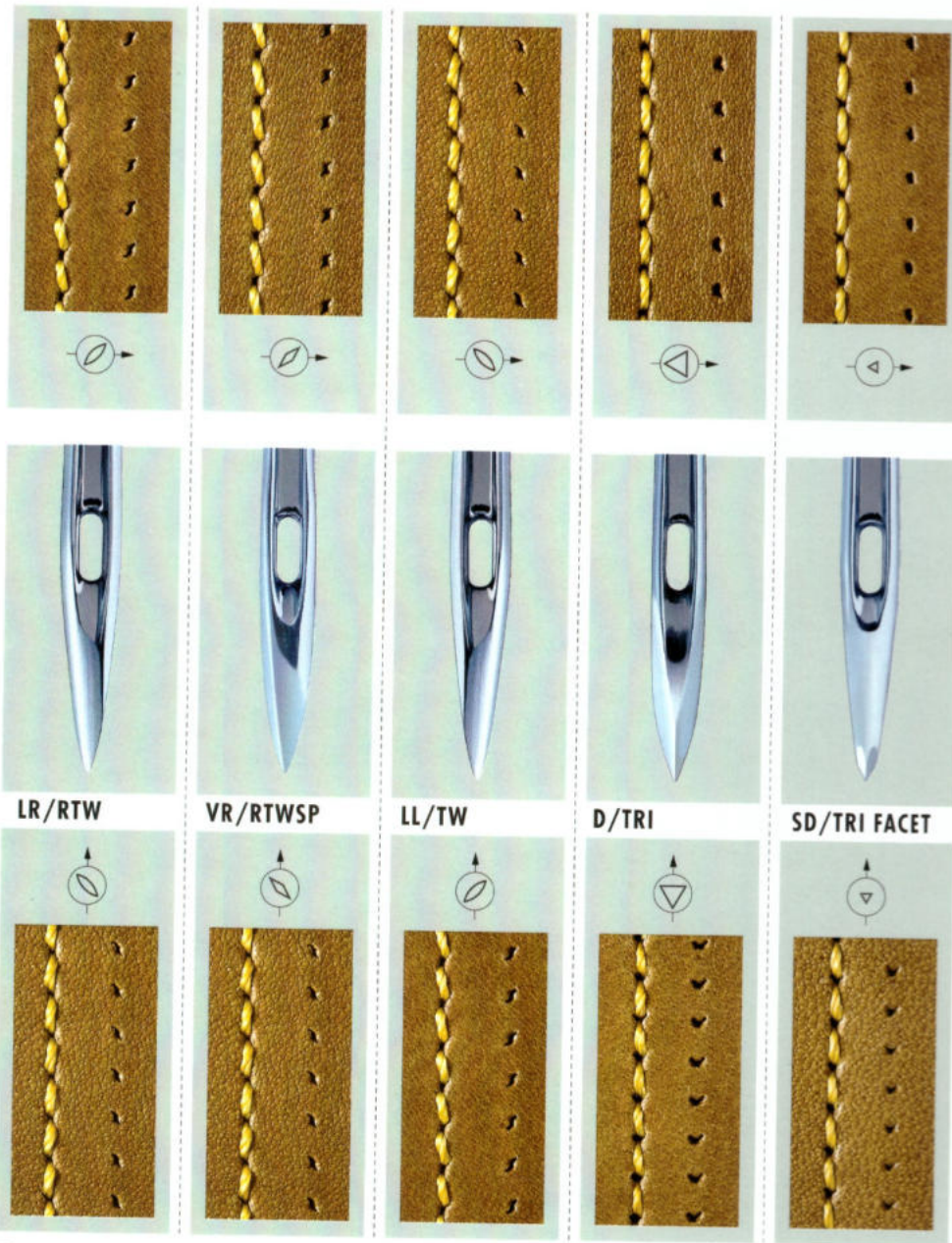
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6

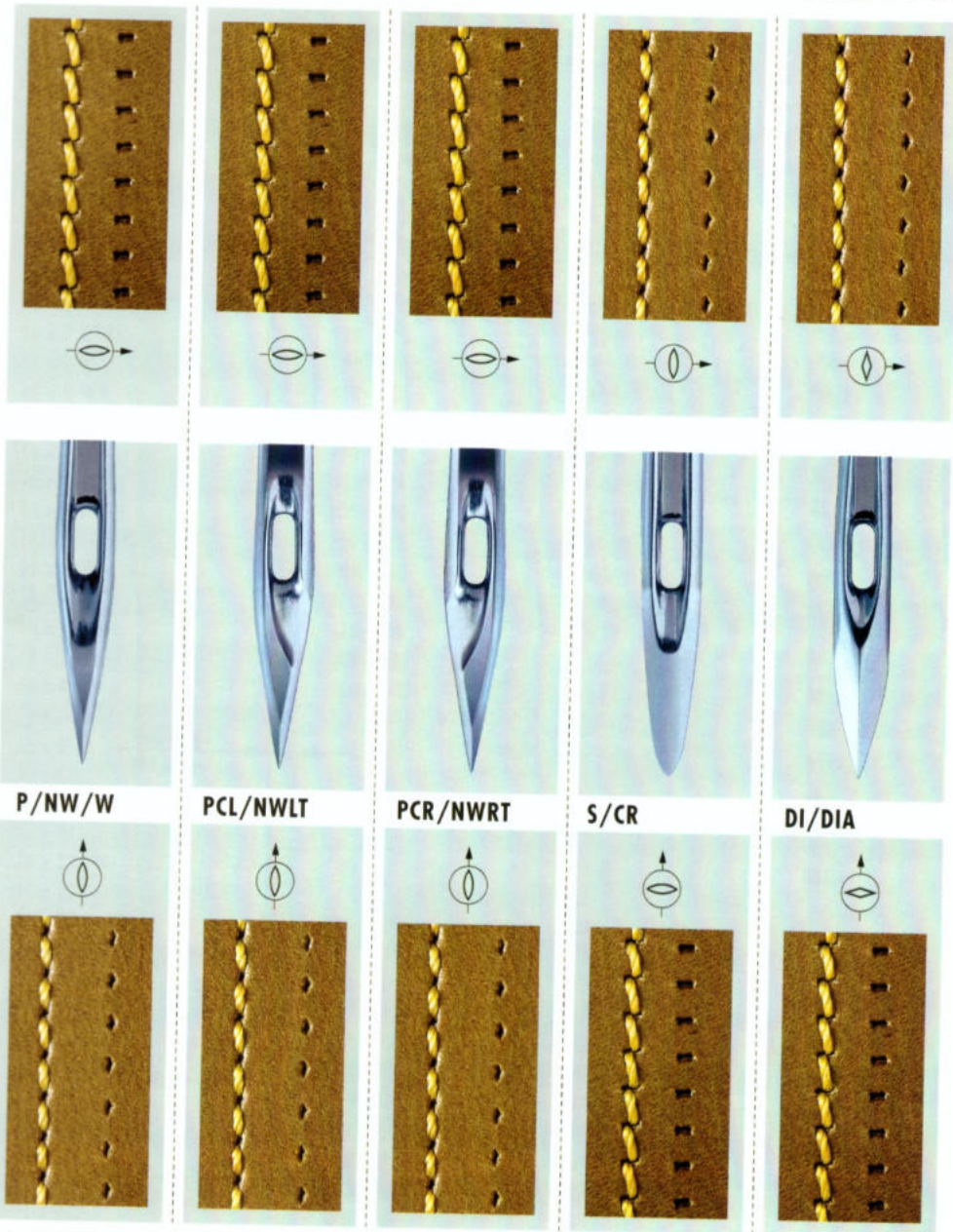
7

**SCHNEIDSPITZEN  
CUTTING POINTS**

GROZ-BECKERT®



- Einfädelrichtung von links / Needle threading left to right  
 Einfädelrichtung von vorne / Needle threading front to back

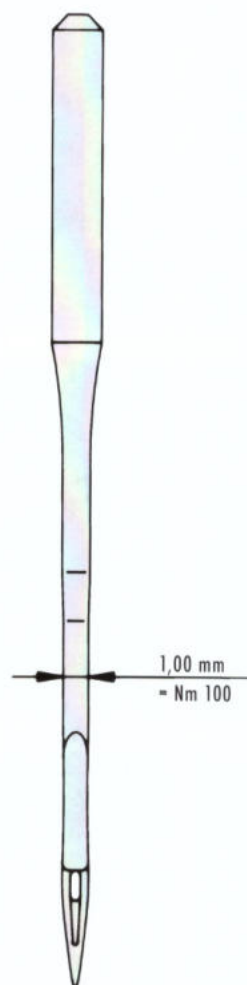


Einfädelrichtung von links / Needle threading left to right  
 Einfädelrichtung von vorne / Needle threading front to back

NAEELDICKEN / NÄHMASCHINENNADELN  
NEEDLE SIZES / SEWING MACHINE NEEDLES

GROZ-BECKERT®

| Nm  | Nr. |
|-----|-----|
| 55  | 6   |
| 60  | 8   |
| 65  | 9   |
| 70  | 10  |
| 75  | 11  |
| 80  | 12  |
| 90  | 14  |
| 100 | 16  |
| 110 | 18  |
| 120 | 19  |
| 125 | 20  |
| 130 | 21  |
| 140 | 22  |
| 150 |     |
| 160 | 23  |
| 180 | 24  |
| 200 | 25  |
| 230 | 26  |
| 250 | 27  |
| 280 | 28  |



Nm = Millimeter x 100  
Millimetres x 100

## GROZ-BECKERT®

| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| 7 x 1                          | 120 - 250                   | 794 H                  | 12                         |
| 7 x 2 TRI                      | 160 - 200                   | 794 D                  | 15                         |
| 7 x 3                          | 120 - 250                   | 794 H                  | 12                         |
| 7 x 6 TRI                      | 160 - 200                   | 794 D                  | 15                         |
| 16 x 1                         | 65 - 110                    | 34                     | 1                          |
| 16 x 1                         | 120 - 200                   | 134                    | 1                          |
| 16 x 2 H TRI                   | 90 - 110                    | 34 D                   | 3                          |
| 16 x 2 H TRI                   | 120 - 130                   | 134 D                  | 4                          |
| 16 x 2 NCR                     | 80 - 110                    | 34 S                   | 3                          |
| 16 x 2 NCR                     | 120 - 160                   | 134 S                  | 4                          |
| 16 x 2 NW                      | 70 - 110                    | 34 P                   | 3                          |
| 16 x 2 NW                      | 120 - 200                   | 134 P                  | 4                          |
| 16 x 2 RTW                     | 60 - 110                    | 34 LR                  | 3                          |
| 16 x 2 RTW                     | 120 - 200                   | 134 LR                 | 4                          |
| 16 x 2 RTWSP                   | 120 - 140                   | 134 VR                 | 4                          |
| 16 x 2 TRI                     | 90 - 110                    | 34 D                   | 3                          |
| 16 x 2 TRI                     | 120 - 180                   | 134 D                  | 4                          |
| 16 x 2 TW                      | 70 - 110                    | 34 LL                  | 3                          |
| 16 x 2 TW                      | 120 - 160                   | 134 LL                 | 4                          |
| 16 x 4 NW                      | 60 - 110                    | 34 PCL                 | 3                          |
| 16 x 4 NW                      | 120 - 160                   | 134 PCL                | 4                          |
| 16 x 6                         | 60 - 110                    | 16 x 6                 | 3                          |
| 16 x 6                         | 120 - 160                   | 134 PCR                | 4                          |
| 16 x 21                        | 65 - 110                    | 34                     | 1                          |
| 16 x 21                        | 120                         | 287                    | 1                          |
| 16 x 22 TRI                    | 90 - 110                    | 34 D                   | 3                          |
| 16 x 73                        | 65 - 110                    | 34                     | 1                          |
| 16 x 73                        | 120 - 200                   | 134                    | 1                          |
| 16 x 74 NW                     | 70 - 110                    | 34 P                   | 3                          |
| 16 x 74 NW                     | 120 - 200                   | 134 P                  | 4                          |
| 16 x 230 RTW                   | 65 - 110                    | 1738 LR                | 4                          |
| 16 x 230 TRI                   | 120 - 180                   | 134 D                  | 4                          |
| 16 x 230 TW                    | 120 - 160                   | 134 LL                 | 4                          |
| 16 x 231                       | 55 - 110                    | 1738                   | 1                          |
| 16 x 231                       | 120 - 200                   | 134                    | 1                          |
| 16 x 246 NW                    | 60 - 110                    | 34 PCL                 | 3                          |
| 16 x 257                       | 55 - 110                    | 1738                   | 1                          |
| 16 x 257                       | 120 - 200                   | 134                    | 1                          |
| 022                            | 80 - 200                    | 332                    | 2                          |
| 022 LL                         | 90 - 180                    | 332 LL                 | 5                          |

| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| 022 LR                         | 90 - 140                    | 332 LR                 | 5                          |
| 29 x 3                         | 80 - 200                    | 332                    | 2                          |
| 29 x 4 NTW                     | 90 - 180                    | 332 LL                 | 5                          |
| 34                             | 65 - 140                    | 34                     | 1                          |
| 34 D                           | 90 - 140                    | 34 D                   | 3                          |
| 34 D                           | 150 - 180                   | 134 D                  | 4                          |
| 34 LL                          | 70 - 120                    | 34 LL                  | 3                          |
| 34 LL                          | 160                         | 134 LL                 | 4                          |
| 34 LR                          | 60 - 140                    | 34 LR                  | 3                          |
| 34 LR                          | 150 - 200                   | 134 LR                 | 4                          |
| 34 P                           | 70 - 110                    | 34 P                   | 3                          |
| 34 P                           | 150 - 200                   | 134 P                  | 4                          |
| 34 PCL                         | 60 - 110                    | 34 PCL                 | 3                          |
| 34 PCL                         | 150 - 160                   | 134 PCL                | 4                          |
| 34 PCR                         | 120 - 130                   | 34 PCR                 | 3                          |
| 34 PCR                         | 150 - 160                   | 134 PCR                | 4                          |
| 34 PS                          | 70 - 110                    | 34 P                   | 3                          |
| 34 S                           | 80 - 120                    | 34 S                   | 3                          |
| 34 S                           | 150 - 160                   | 134 S                  | 4                          |
| 62 x 40 TRI                    | 100 - 110                   | 5640 D                 | 9                          |
| 71 x 1                         | 55 - 110                    | 1738                   | 1                          |
| 71 x 1                         | 120 - 160                   | 71 x 1                 | 1                          |
| 88                             | 90 - 150                    | 88                     | 8                          |
| 88 LR                          | 100 - 160                   | 88 LR                  | 8                          |
| 128 x 1                        | 75 - 140                    | 128 x 21               | 3                          |
| 128 x 2 TRI                    | 80 - 140                    | 128 x 20 TRI           | 5                          |
| 128 x 3                        | 75 - 140                    | 128 x 21               | 3                          |
| 128 x 4 NW                     | 90 - 125                    | 128 x 22 NW            | 7                          |
| 128 x 6 NW                     | 90 - 125                    | 128 x 22 NW            | 7                          |
| 128 x 6 TRI                    | 80 - 140                    | 128 x 20 TRI           | 5                          |
| 128 x 20 TRI                   | 80 - 140                    | 128 x 20 TRI           | 5                          |
| 128 x 21                       | 75 - 140                    | 128 x 21               | 3                          |
| 128 x 22 NW                    | 90 - 125                    | 128 x 22 NW            | 7                          |
| 128 x 22 TRI                   | 80 - 140                    | 128 x 20 TRI           | 5                          |
| 130 B                          | 65 - 110                    | 34                     | 1                          |
| 130 B                          | 120                         | 287                    | 1                          |
| 134                            | 55 - 200                    | 134                    | 1                          |
| 134 D                          | 70 - 180                    | 134 D                  | 4                          |
| 134 DI                         | 80 - 140                    | 134 DI                 | 4                          |
| 134 KK                         | 70 - 110                    | 134 KK                 | 1                          |

| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| 134 KK D                       | 80 - 110                    | 134 KK D               | 4                          |
| 134 KK D                       | 120 - 180                   | 134 D                  | 4                          |
| 134 KK DI                      | 70 - 110                    | 134 KK DI              | 4                          |
| 134 KK DI                      | 120 - 140                   | 134 DI                 | 4                          |
| 134 KK LL                      | 120 - 160                   | 134 LL                 | 4                          |
| 134 KK LL CR                   | 120 - 140                   | 134 LL CR              | 5                          |
| 134 KK LR                      | 60 - 110                    | 134 KK LR              | 4                          |
| 134 KK LR                      | 120 - 200                   | 134 LR                 | 4                          |
| 134 KK P                       | 120 - 200                   | 134 P                  | 4                          |
| 134 KK PCL                     | 70 - 110                    | 134 KK PCL             | 4                          |
| 134 KK PCL                     | 120 - 160                   | 134 PCL                | 4                          |
| 134 KK PCLS                    | 70 - 110                    | 134 KK PCL             | 4                          |
| 134 KK PCR                     | 120 - 160                   | 134 PCR                | 4                          |
| 134 KK S                       | 70 - 110                    | 134 KK S               | 4                          |
| 134 KK S                       | 120 - 160                   | 134 S                  | 4                          |
| 134 KK VR                      | 120 - 140                   | 134 VR                 | 4                          |
| 134 LL                         | 70 - 160                    | 134 LL                 | 4                          |
| 134 LL CR                      | 70 - 140                    | 134 LL CR              | 5                          |
| 134 LR                         | 60 - 200                    | 134 LR                 | 4                          |
| 134 LRS                        | 60 - 200                    | 134 LR                 | 4                          |
| 134 P                          | 65 - 200                    | 134 P                  | 4                          |
| 134 PCL                        | 60 - 160                    | 134 PCL                | 4                          |
| 134 PCR                        | 70 - 160                    | 134 PCR                | 4                          |
| 134 PS                         | 65 - 200                    | 134 P                  | 4                          |
| 134 S                          | 65 - 160                    | 134 S                  | 4                          |
| 134 SD                         | 65 - 140                    | 134 SD                 | 3                          |
| 134 VR                         | 70 - 140                    | 134 VR                 | 4                          |
| B 134                          | 70 - 110                    | 134 KK                 | 1                          |
| B 134                          | 120 - 200                   | 134                    | 1                          |
| 134 - 35                       | 65 - 200                    | 134 - 35               | 3                          |
| 134 - 35 D                     | 80 - 160                    | 134 - 35 D             | 4                          |
| 134 - 35 LL                    | 70 - 160                    | 134 - 35 LL            | 4                          |
| 134 - 35 LR                    | 70 - 200                    | 134 - 35 LR            | 4                          |
| 134 - 35 PCL                   | 80 - 160                    | 134 - 35 PCL           | 6                          |
| 134 - 35 PCR                   | 130                         | 134 - 35 PCR           | 6                          |
| 134 - 35 S                     | 90 - 160                    | 134 - 35 S             | 4                          |
| 134 - 35 SD                    | 100 - 120                   | 134 - 35 SD            | 5                          |
| 134 - 35 VR                    | 100 - 200                   | 134 - 35 VR            | 4                          |
| 135                            | 75 - 140                    | 128 x 21               | 3                          |
| 135 D                          | 80 - 140                    | 128 x 20 TRI           | 5                          |

| Needelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|---------------------------------|-----------------------------|------------------------|----------------------------|
| 135 P                           | 90 - 125                    | 128 x 22 NW            | 7                          |
| 135 x 5                         | 55 - 200                    | 134                    | 1                          |
| 135 x 5 SD                      | 65 - 140                    | 134 SD                 | 3                          |
| 135 x 7                         | 55 - 200                    | 134                    | 1                          |
| 135 x 7 SD                      | 65 - 140                    | 134 SD                 | 3                          |
| 135 x 8 DIA                     | 80 - 140                    | 134 DI                 | 4                          |
| 135 x 8 NCR                     | 65 - 160                    | 134 S                  | 4                          |
| 135 x 8 NW                      | 65 - 200                    | 134 P                  | 4                          |
| 135 x 8 RTW                     | 60 - 200                    | 134 LR                 | 4                          |
| 135 x 8 RTWSP                   | 70 - 140                    | 134 VR                 | 4                          |
| 135 x 8 TRI                     | 70 - 180                    | 134 D                  | 4                          |
| 135 x 8 TW                      | 70 - 160                    | 134 LL                 | 4                          |
| 135 x 16 DIA                    | 130 - 140                   | 135 x 16 DIA           | 6                          |
| 135 x 16 NRTW                   | 80 - 120                    | 135 x 16 RTW           | 6                          |
| 135 x 16 NTW                    | 90 - 180                    | 135 x 16 TW            | 6                          |
| 135 x 16 NW                     | 130 - 140                   | 135 x 16 NW            | 6                          |
| 135 x 16 RTW                    | 80 - 120                    | 135 x 16 RTW           | 6                          |
| 135 x 16 TRI                    | 110 - 160                   | 135 x 16 TRI           | 6                          |
| 135 x 16 TW                     | 90 - 180                    | 135 x 16 TW            | 6                          |
| 135 x 17                        | 65 - 230                    | 135 x 17               | 2                          |
| 175 LR                          | 100 - 160                   | 88 LR                  | 8                          |
| 190                             | 70 - 200                    | 190                    | 4                          |
| 190 LR                          | 110 - 160                   | 190 LR                 | 6                          |
| 214 x 1                         | 110 - 280                   | 328                    | 9                          |
| 214 x 2 DIA                     | 200 - 250                   | 328 DI                 | 12                         |
| 214 x 2 NCR                     | 180 - 230                   | 328 S                  | 12                         |
| 214 x 2 NTW                     | 130 - 250                   | 328 LL                 | 11                         |
| 214 x 2 RTW                     | 120 - 250                   | 328 LR                 | 11                         |
| 214 x 2 TW                      | 130 - 250                   | 328 LL                 | 11                         |
| 265                             | 70 - 120                    | 438                    | 4                          |
| 265 LR                          | 90 - 120                    | 438 LR                 | 6                          |
| 287                             | 65 - 110                    | 34                     | 1                          |
| 287                             | 120                         | 287                    | 1                          |
| 287 D                           | 90 - 110                    | 34 D                   | 3                          |
| 287 H                           | 120                         | 287                    | 1                          |
| 287 H LR                        | 120 - 140                   | 287 LR                 | 3                          |
| 287 LL                          | 70 - 110                    | 34 LL                  | 3                          |
| 287 LR                          | 60 - 110                    | 34 LR                  | 3                          |
| 287 LR                          | 120 - 140                   | 287 LR                 | 3                          |
| 287 P                           | 70 - 110                    | 34 P                   | 3                          |

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| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| 287 PCL                        | 60 - 110                    | 34 PCL                 | 3                          |
| 287 S                          | 80 - 110                    | 34 S                   | 3                          |
| 287 WH                         | 55 - 110                    | 1738                   | 1                          |
| 328                            | 110 - 280                   | 328                    | 9                          |
| 328 DI                         | 200 - 250                   | 328 DI                 | 12                         |
| 328 LL                         | 130 - 250                   | 328 LL                 | 11                         |
| 328 LR                         | 120 - 250                   | 328 LR                 | 11                         |
| 328 P                          | 200 - 230                   | 328 P                  | 12                         |
| 328 S                          | 180 - 230                   | 328 S                  | 12                         |
| 332                            | 80 - 200                    | 332                    | 2                          |
| 332 LL                         | 90 - 180                    | 332 LL                 | 5                          |
| 332 LR                         | 90 - 140                    | 332 LR                 | 5                          |
| 376 D                          | 90 - 110                    | 34 D                   | 3                          |
| 376 LR                         | 60 - 110                    | 34 LR                  | 3                          |
| 376 LR                         | 120 - 140                   | 287 LR                 | 3                          |
| 376 P                          | 70 - 110                    | 34 P                   | 3                          |
| 376 PCL                        | 60 - 110                    | 34 PCL                 | 3                          |
| 376 S                          | 80 - 110                    | 34 S                   | 3                          |
| 438                            | 70 - 120                    | 438                    | 4                          |
| 438 LR                         | 90 - 120                    | 438 LR                 | 6                          |
| UY 501 GS                      | 90 - 125                    | UY 506 GS              | 7                          |
| UY 506 GS                      | 90 - 125                    | UY 506 GS              | 7                          |
| 563 LL                         | 70 - 110                    | 34 LL                  | 3                          |
| 563 LR                         | 60 - 110                    | 34 LR                  | 3                          |
| 606 LR                         | 120 - 140                   | 287 LR                 | 3                          |
| 690                            | 65 - 110                    | 34                     | 1                          |
| 690 LR                         | 60 - 110                    | 34 LR                  | 3                          |
| 690 P                          | 70 - 110                    | 34 P                   | 3                          |
| 690 S                          | 80 - 110                    | 34 S                   | 3                          |
| 793                            | 120 - 250                   | 794 H                  | 12                         |
| 794 D                          | 160 - 200                   | 794 D                  | 15                         |
| 794 H                          | 120 - 250                   | 794 H                  | 12                         |
| 797                            | 55 - 200                    | 134                    | 1                          |
| 797 KK                         | 70 - 110                    | 134 KK                 | 1                          |
| 797 KK LR                      | 60 - 110                    | 134 KK LR              | 4                          |
| 797 KK PCL                     | 120 - 160                   | 134 PCL                | 4                          |
| 797 LL                         | 70 - 160                    | 134 LL                 | 4                          |
| 797 LR                         | 60 - 200                    | 134 LR                 | 4                          |
| 797 P                          | 65 - 200                    | 134 P                  | 4                          |
| 797 PCL                        | 60 - 160                    | 134 PCL                | 4                          |

| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| 797 PCR                        | 70 - 160                    | 134 PCR                | 4                          |
| 797 S                          | 65 - 160                    | 134 S                  | 4                          |
| 797 SD                         | 65 - 140                    | 134 SD                 | 3                          |
| 805 LR                         | 90 - 180                    | 805 LR                 | 10                         |
| 1738                           | 55 - 110                    | 1738                   | 1                          |
| 1738                           | 120 - 200                   | 134                    | 1                          |
| 1738 DI                        | 120 - 140                   | 134 DI                 | 4                          |
| 1738 LL                        | 120 - 160                   | 134 LL                 | 4                          |
| 1738 LR                        | 65 - 110                    | 1738 LR                | 4                          |
| 1738 LR                        | 120 - 200                   | 134 LR                 | 4                          |
| 1738 P                         | 120 - 200                   | 134 P                  | 4                          |
| 1738 SD                        | 65 - 100                    | 1738 SD                | 3                          |
| 1738 SD                        | 120 - 140                   | 134 SD                 | 3                          |
| SY 1955                        | 55 - 200                    | 134                    | 1                          |
| 2134 - 35                      | 65 - 200                    | 134 - 35               | 3                          |
| 2134 - 35 D                    | 80 - 160                    | 134 - 35 D             | 4                          |
| 2134 - 35 LL                   | 70 - 160                    | 134 - 35 LL            | 4                          |
| 2134 - 35 LR                   | 70 - 200                    | 134 - 35 LR            | 4                          |
| 2134 - 35 PCL                  | 80 - 160                    | 134 - 35 PCL           | 6                          |
| 2134 - 35 PCR                  | 130                         | 134 - 35 PCR           | 6                          |
| 2134 - 35 S                    | 90 - 160                    | 134 - 35 S             | 4                          |
| 2134 - 35 VR                   | 100 - 200                   | 134 - 35 VR            | 4                          |
| 4463 KK                        | 80 - 110                    | 4463 KK                | 7                          |
| 4463 KK D                      | 100 - 110                   | 4463 KK D              | 8                          |
| 4463 KK S                      | 80 - 110                    | 4463 KK S              | 8                          |
| 4463 KK SD                     | 90 - 100                    | 4463 KK SD             | 9                          |
| 5640 D                         | 100 - 110                   | 5640 D                 | 9                          |
| DB x A20                       | 120                         | 287                    | 1                          |
| DB x F2                        | 65 - 110                    | 1738 LR                | 4                          |
| DB x F2                        | 120 - 200                   | 134 LR                 | 4                          |
| DD x 1                         | 110 - 280                   | 328                    | 9                          |
| DD x 2 LR                      | 120 - 250                   | 328 LR                 | 11                         |
| DF x F19                       | 120 - 160                   | 134 S                  | 4                          |
| DI x 3                         | 80 - 200                    | 332                    | 2                          |
| DI x 4                         | 90 - 180                    | 332 LL                 | 5                          |
| DI x 4 LR                      | 90 - 140                    | 332 LR                 | 5                          |
| DP x 5                         | 55 - 200                    | 134                    | 1                          |
| DP x 8                         | 80 - 140                    | 134 DI                 | 4                          |
| DP x 16                        | 130 - 140                   | 135 x 16 NW            | 6                          |
| DP x 16 N                      | 90 - 180                    | 135 x 16 TW            | 6                          |

| Nadelsysteme<br>Needle Systems | Dickenbereich<br>Size Range | GB System<br>GB System | Preisklasse<br>Price Class |
|--------------------------------|-----------------------------|------------------------|----------------------------|
| DP x 17                        | 65 - 230                    | 135 x 17               | 2                          |
| DP x F19 S                     | 70 - 110                    | 134 KK S               | 4                          |
| DP x 35                        | 65 - 200                    | 134 - 35               | 3                          |
| DP x 35 LL                     | 70 - 160                    | 134 - 35 LL            | 4                          |
| DP x 35 LR                     | 70 - 200                    | 134 - 35 LR            | 4                          |
| DP x 35 S                      | 90 - 160                    | 134 - 35 S             | 4                          |
| DP x 35 VR                     | 100 - 200                   | 134 - 35 VR            | 4                          |
| DP x 438                       | 70 - 120                    | 438                    | 4                          |
| DP x 438 LR                    | 90 - 120                    | 438 LR                 | 6                          |
| DU x 1                         | 90 - 150                    | 88                     | 8                          |
| DU x 2 LR                      | 100 - 160                   | 88 LR                  | 8                          |
| DY x 1                         | 120 - 250                   | 794 H                  | 12                         |
| DY x 3                         | 120 - 250                   | 794 H                  | 12                         |
| DY x 3 D                       | 120 - 200                   | 794 D                  | 15                         |
| MT x 134 K                     | 60 - 110                    | 134 KK LR              | 4                          |
| MT x 134 L                     | 70 - 160                    | 134 LL                 | 4                          |
| MT x 134 PCL                   | 60 - 160                    | 134 PCL                | 4                          |
| MT x 190                       | 70 - 200                    | 190                    | 4                          |
| MT x 190 LR                    | 110 - 160                   | 190 LR                 | 6                          |
| PF x 34 R                      | 65 - 140                    | 34                     | 1                          |
| PF x 34 R                      | 150 - 200                   | 134                    | 1                          |
| PF x 134 D                     | 70 - 180                    | 134 D                  | 4                          |
| PF x 134 KK                    | 70 - 110                    | 134 KK                 | 1                          |
| PF x 134 KS                    | 65 - 160                    | 134 S                  | 4                          |
| PF x 134 LL                    | 70 - 160                    | 134 LL                 | 4                          |
| PF x 134 LR                    | 60 - 200                    | 134 LR                 | 4                          |
| PF x 134 PCR                   | 70 - 160                    | 134 PCR                | 4                          |
| SM x 805 LR                    | 90 - 180                    | 805 LR                 | 10                         |
| TF x 2                         | 70 - 110                    | 34 LL                  | 3                          |
| TF x 4                         | 60 - 110                    | 34 PCL                 | 3                          |
| TF x 4                         | 120 - 160                   | 134 PCL                | 4                          |
| TF x 6                         | 60 - 110                    | 16 x 6                 | 3                          |
| TF x 6                         | 120 - 160                   | 134 PCR                | 4                          |
| TF x 8                         | 120 - 160                   | 134 S                  | 4                          |
| TF x F8                        | 80 - 120                    | 34 S                   | 3                          |
| TF x 287 LR                    | 120 - 140                   | 287 LR                 | 3                          |
| TI x 2                         | 90 - 140                    | 128 x 20 TRI           | 5                          |
| TI x 4                         | 80 - 125                    | 128 x 22 NW            | 7                          |
| TI x 21                        | 75 - 140                    | 128 x 21               | 3                          |
| TI x 22                        | 90 - 125                    | 128 x 22 NW            | 7                          |

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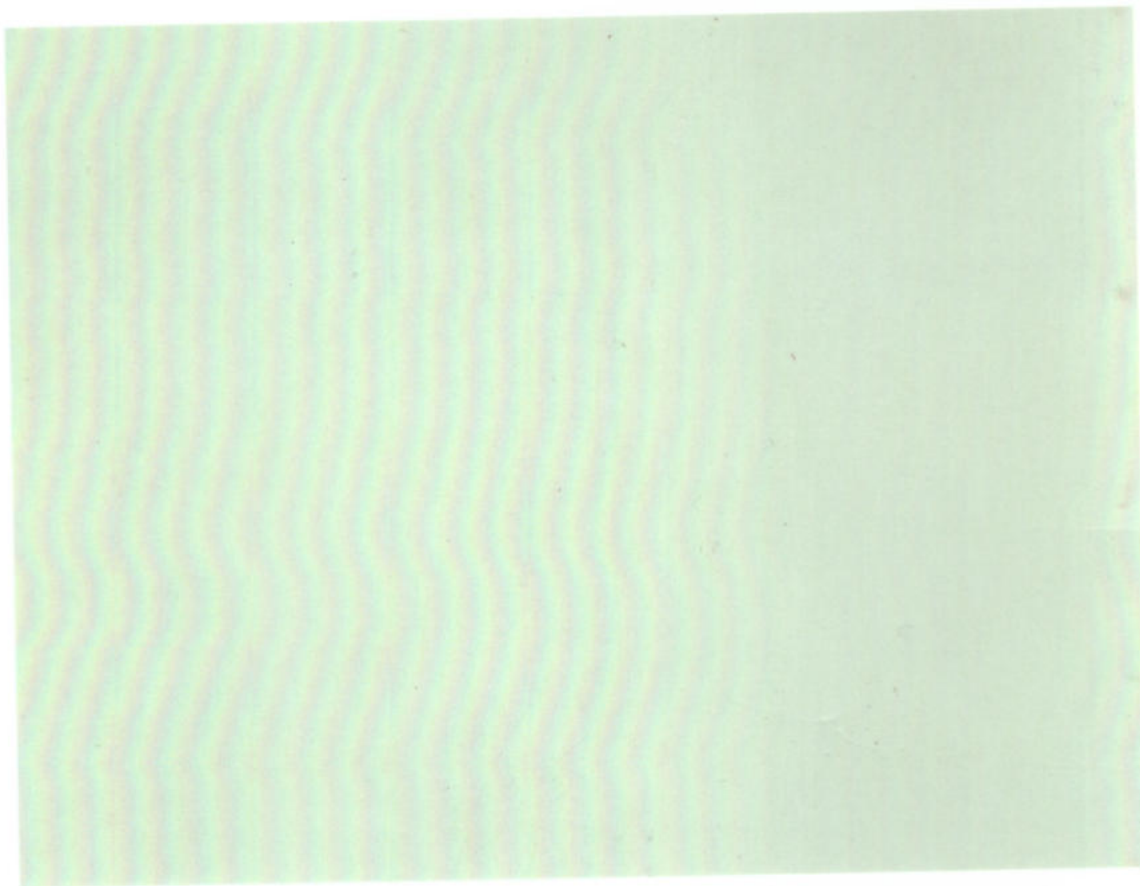
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