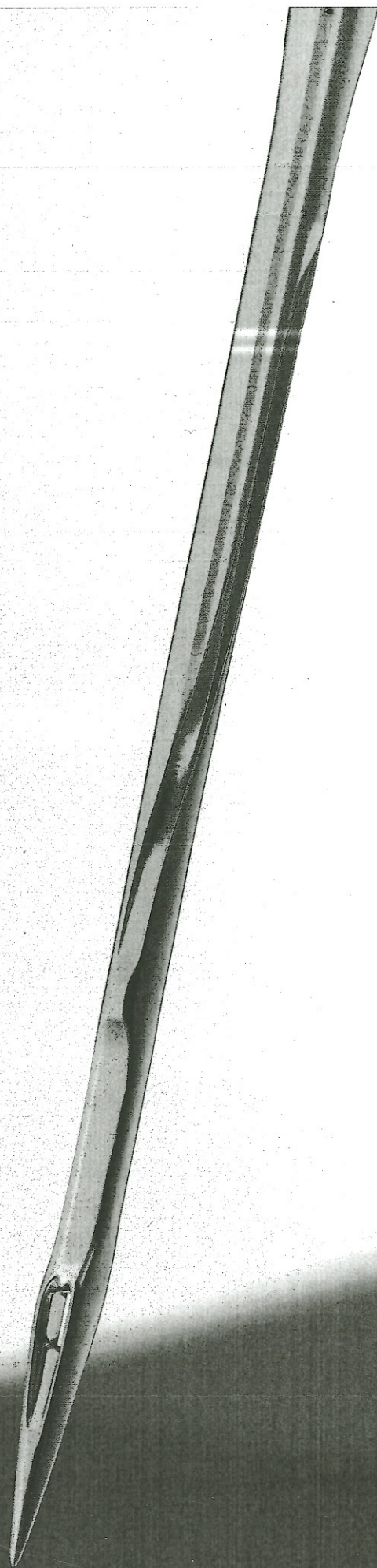


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<b>Kapitel 1</b>		<b>Chapter 1</b>	
	<b>SEITE</b>		<b>PAGE</b>
<b>SYSTEMLISTE</b>	<b>1.01</b>	<b>LIST OF SYSTEMS</b>	<b>1.01</b>
<b>Kapitel 2</b>		<b>Chapter 2</b>	
	<b>SEITE</b>		<b>PAGE</b>
<b>HERSTELLUNGSPROGRAMM</b>	<b>2.01</b>	<b>MANUFACTURING RANGE</b>	<b>2.01</b>
<b>Kapitel 3</b>		<b>Chapter 3</b>	
	<b>SEITE</b>		<b>PAGE</b>
<b>WICHTIGSTE INFORMATIONEN UND TABELLEN</b>		<b>INFORMATIONS AND CHARTS</b>	
GB-Katalogbezeichnung	<b>3.01</b>	GB-catalogue designation	<b>3.01</b>
GB-Formkennung	<b>3.02</b>	GB-needle style type	<b>3.02</b>
Aufbau und Betrachtungsweise einer Nähmaschinennadel	<b>3.03</b>	Basic elements and features of a sewing machine needle	<b>3.03</b>
Vergleichstabelle von Spitzenbezeichnungen	<b>3.04</b>	Comparison of point designations	<b>3.04</b>
GB-Spitzenformen	<b>3.05</b>	GB-point-styles	<b>3.05</b>
Position und Bezeichnung von Exzentrischen Spitzen	<b>3.06</b>	Position and description of eccentric points	<b>3.06</b>
Vergleichstabelle für Nadeldicken	<b>3.07</b>	Comparison of needle sizes	<b>3.07</b>
Schneidspitzen	<b>3.08</b>	Cutting points	<b>3.08</b>
Vorgeschlagsstabelle: Nadeldicke - Nähfadenstärke	<b>3.10</b>	Recommendation: needle sizes – thread sizes	<b>3.10</b>







Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
Bonis H	Bonis H	7	2.05
DAVIS LOOPER 90-120	604 FE	25	2.56
DAVIS LOOPER 130+150	604 FE	25	2.61
DAVIS LOOPER 160	604 FE	25	2.62
Myers No 2	Myers No 2	14	2.47
Myers No 5	Myers No 5	14	2.38
Myers No 6	Myers No 6	17	2.38
Myers No 8	Myers No 8	17	2.54
SOABAR	64	13	2.02
STITCHDOWN 1 E	STITCHDOWN 1 E	15	2.48
D - 5	FD 5	14	2.45
FD 5	FD 5	14	2.45
FD 5 FR	FD 5 FR	16	2.45
7 x 1	794 H	12	2.63
7 x 2 TRI	794 D	15	2.64
7 x 3	794 H	12	2.63
7 x 3 FL	794 H FL	20	2.64
7 x 3 KF	7 x 3 KF	20	2.64
7 x 3 KSP FL	7 x 3 KF	20	2.64
7 x 4 RTW	794 LR	15	2.63
7 x 6 TRI	794 D	15	2.64
7 x S14	7 x 23	14	2.61
7 x S14 FFG	7 x 23 FFG	14	2.61
7 x 21	7 x 23	14	2.61
7 x 21 FFG	7 x 23 FFG	14	2.61
7 x 23	7 x 23	14	2.61
7 x 23 FFG	7 x 23 FFG	14	2.61
7 x 33	7 x 3 KF	20	2.64
12 - 500	12 - 500	7	2.29
12 - 662	12 - 690	22	2.29
12 - 690	12 - 690	22	2.29
12 - 691	12 - 690	22	2.29
14 SP	14 SP	8	2.50
16 x 1 ≤ 110	34	1	2.12
16 x 1 ≥ 120	134	1	2.18
16 x 1 FFG ≤ 110	34 FFG	1	2.12
16 x 1 FFG ≥ 120	134 FFG	1	2.18
16 x 1 FG ≤ 110	34 FG	1	2.12
16 x 1 FG ≥ 120	134 FG	1	2.19
16 x 1 H ≤ 110	34	1	2.12
16 x 1 H ≥ 120	134	1	2.18
16 x 1 H FFG ≤ 110	34 FFG	1	2.12
16 x 1 H FFG ≥ 120	134 FFG	1	2.18
16 x 1 H FG ≤ 110	34 FG	1	2.12
16 x 1 H FG ≥ 120	134 FG	1	2.19
16 x 1 RO TRI TIP ≥ 120	134 SD	3	2.19
16 x 2 DIA ≥ 120	134 DI	4	2.20
16 x 2 H TRI ≤ 110	34 D	3	2.12
16 x 2 H TRI ≥ 120	134 D	4	2.19

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
16 x 2 NCR ≤ 110	34 S	3	2.13
16 x 2 NCR ≥ 120	134 S	4	2.21
16 x 2 NW ≤ 110	34 P	3	2.13
16 x 2 NW ≥ 120	134 P	4	2.21
16 x 2 RTW ≤ 110	34 LR	3	2.13
16 x 2 RTW ≥ 120	134 LR	4	2.20
16 x 2 RTWSP ≥ 120	134 VR	4	2.21
16 x 2 TRI ≤ 110	34 D	3	2.12
16 x 2 TRI ≥ 120	134 D	4	2.19
16 x 2 TRI TIP ≥ 120	134 SD	3	2.19
16 x 2 TW ≤ 110	34 LL	3	2.13
16 x 2 TW ≥ 120	134 LL	4	2.20
16 x 3 ≤ 110	34 CL	3	2.15
16 x 4 ≤ 110	34 PCL	3	2.14
16 x 4 ≥ 120	134 PCL	4	2.24
16 x 4 NW ≤ 110	34 PCL	3	2.14
16 x 4 NW ≥ 120	134 PCL	4	2.24
16 x 4 SD	16 x 246 SD	5	2.13
16 x 6 ≤ 110	16 x 6	3	2.14
16 x 6 ≥ 120	134 PCR	4	2.23
16 x 6 NW ≤ 110	16 x 6	3	2.14
16 x 6 NW ≥ 120	134 PCR	4	2.23
16 x 8 ≤ 110	34 PCL	3	2.14
16 x 16 NW ≤ 110	34 PCL	3	2.14
16 x 16 NW ≥ 120	134 PCL	4	2.24
16 x 21 ≤ 110	34	1	2.12
16 x 21 ≥ 120	287	1	2.11
16 x 22 TRI ≤ 110	34 D	3	2.12
16 x 26 NW	16 x 26 NW	5	2.15
16 x 63	16 x 63 H	5	2.48
16 x 63 H	16 x 63 H	5	2.48
16 x 73 ≤ 110	34	1	2.12
16 x 73 ≥ 120	134	1	2.18
16 x 73 FFG ≤ 110	34 FFG	1	2.12
16 x 73 FFG ≥ 120	134 FFG	1	2.18
16 x 73 FG ≤ 110	34 FG	1	2.12
16 x 73 FG ≥ 120	134 FG	1	2.19
16 x 74 NW ≤ 110	34 P	3	2.13
16 x 74 NW ≥ 120	134 P	4	2.21
16 x 74 TW ≤ 110	34 LL	3	2.13
16 x 74 TW ≥ 120	134 LL	4	2.20
16 x 85 ≤ 110	34	1	2.12
16 x 85 ≥ 120	71 x 1	1	2.14
16 x 87 ≤ 110	1738	1	2.09
16 x 87 ≥ 120	134	1	2.18
16 x 87 FFG ≤ 110	1738 FFG	1	2.10
16 x 87 FFG ≥ 120	134 FFG	1	2.18
16 x 87 FG ≤ 110	1738 FG	1	2.10
16 x 87 FG ≥ 120	134 FG	1	2.19



Nadelsysteme Needle Systems		GB System GB System	PK PC	Kapitel/Seite Chapter/Page
16 x 87 RS	≤ 110	1738 RS	1	2.10
16 x 87 RS	≥ 120	134 RS	1	2.18
16 x 95	≤ 110	1738	1	2.09
16 x 95	≥ 120	71 x 1	1	2.14
16 x 95 FFG	≤ 110	1738 FFG	1	2.10
16 x 95 FFG	≥ 120	71 x 1 FFG	1	2.14
16 x 95 FG	≤ 110	1738 FG	1	2.10
16 x 107		16 x 63 H	5	2.48
16 x 113		16 x 63 H	5	2.48
16 x 113 H		16 x 63 H	5	2.48
16 x 226 TRI	≤ 110	34 D	3	2.12
16 x 230 DIA	≥ 120	134 DI	4	2.20
16 x 230 NW	≥ 120	134 P	4	2.21
16 x 230 RTW	≤ 110	1738 LR	4	2.11
16 x 230 RTW	≥ 120	134 LR	4	2.20
16 x 230 TRI	≥ 120	134 D	4	2.19
16 x 230 TW	≥ 120	134 LL	4	2.20
16 x 231	≤ 110	1738	1	2.09
16 x 231	≥ 120	134	1	2.18
16 x 231 FFG	≤ 110	1738 FFG	1	2.10
16 x 231 FFG	≥ 120	134 FFG	1	2.18
16 x 231 FG	≤ 110	1738 FG	1	2.10
16 x 231 FG	≥ 120	134 FG	1	2.19
16 x 231 RS	≤ 110	1738 RS	1	2.10
16 x 231 RS	≥ 120	134 RS	1	2.18
16 x 231 SD	≤ 110	1738 SD	3	2.10
16 x 231 SD	≥ 120	134 SD	3	2.19
16 x 246	≤ 110	34 PCL	3	2.14
16 x 246 NW	≤ 110	34 PCL	3	2.14
16 x 246 SD		16 x 246 SD	5	2.13
16 x 257	≤ 110	1738	1	2.09
16 x 257	≥ 120	134	1	2.18
16 x 257 FFG	≤ 110	1738 FFG	1	2.10
16 x 257 FFG	≥ 120	134 FFG	1	2.18
16 x 257 FG	≤ 110	1738 FG	1	2.10
16 x 257 FG	≥ 120	134 FG	1	2.19
16 x 257 LR	≤ 110	1738 LR	4	2.11
16 x 257 LR	≥ 120	134 LR	4	2.20
16 x 257 RS	≤ 110	1738 RS	1	2.10
16 x 257 RS	≥ 120	134 RS	1	2.18
16 x 257 SD	≤ 110	1738 SD	3	2.10
16 x 257 SD	≥ 120	134 SD	3	2.19
16 x 269	≤ 110	34	1	2.12
16 x 269	≥ 120	134	1	2.18
16 x 270 NW	≥ 150	134 PCR	4	2.24
16 x 274	≤ 110	34 PCL	3	2.14
16 x 274 NW	≥ 150	134 PCL	4	2.24
16 x 281 RO TRI TIP		16 x 246 SD	5	2.13
16 x 506 NW	≥ 150	134 PCR	4	2.24

Nadelsysteme Needle Systems		GB System GB System	PK PC	Kapitel/Seite Chapter/Page
16 x 521	≤ 110	1738	1	2.09
20 x 1		805	9	2.38
022		332	2	2.40
022 LL		332 LL	5	2.40
022 LR		332 LR	5	2.40
24 x 1		24 x 1	10	2.01
25		29 BD	17	2.29
B 26		B 26	5	2.02
B 26 FG		B 26 FG	5	2.02
B 27		B 27	4	2.02
B 27 GEBEDUR		B 27	7	2.02
B 27 B FFG		B 27 FFG	4	2.02
B 27 B FG		B 27 FG	4	2.02
B 27 B RS		B 27 RS	4	2.02
B 27 FFG		B 27 FFG	4	2.02
B 27 FFG GEBEDUR		B 27 FFG	7	2.02
B 27 FG		B 27 FG	4	2.02
B 27 FM - B		B 27 FM - B	14	2.03
B 27 P		B 27 P	4	2.03
B 27 R		B 27 R	4	2.02
B 27 RS		B 27 RS	4	2.02
B 27 SAN 10		B 27 SAN 10	5	2.04
B 27 SKL		B 27 SKL	4	2.02
29 BA		29 BA	17	2.29
29 BB		29 BB	22	2.34
29 BC		29 BD	17	2.29
29 BD		29 BD	17	2.29
29 BD SAN 1		29 BD SAN 1	17	2.30
29 BJ		29 BK	19	2.29
29 BK		29 BK	19	2.29
29 BL		29 BL	19	2.48
29 BL FFG		29 BL FFG	19	2.48
29 BLV		29 BLV	22	2.48
29 BNL		251 EL	17	2.48
29 BNL FFG		251 EL FFG	17	2.48
29 BNS		251	17	2.47
29 CA		251	17	2.47
29 CB		251 EL	17	2.48
29 CB FFG		251 EL FFG	17	2.48
29 DEA		150	7	2.28
29 ELS		29 ELS	6	2.57
29 L		2091	3	2.54
29 L FFG		2091	3	2.54
29 L FG		2091	3	2.54
29 LES		2091 KK	5	2.54
29 LSS	≤ 125	29 LSS	3	2.54
29 LSS	≥ 130	2091	3	2.53
29 LSS FFG		2091	3	2.53
29 LSS FG		2091	3	2.53



Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
29 S	1985	2	2.34
29 S FFG	1985	2	2.34
29 S FG	1985	2	2.35
29 S R	1985 R	2	2.34
B 29	B 29	6	2.03
B 29 A	B 29	6	2.03
B 29 A FFG	B 29 FFG	6	2.03
B 29 A FG	B 29 FG	6	2.03
B 29 FFG	B 29 FFG	6	2.03
B 29 FG	B 29 FG	6	2.03
B 29 P	B 29 P	6	2.03
TLM 29	STITCHDOWN 1 E	15	2.48
29 - 3	29 BA	17	2.29
29 x 3	332	2	2.40
29 x 3 LG	332 LG	3	2.55
29 x 4 NTW	332 LL	5	2.40
29 x 4 RTW	332 LR	5	2.40
29 x 4 TW	332 LL	5	2.40
29 - 6	29 BB	22	2.34
29 - 12	29 BD	17	2.29
29 - 13	29 BD	17	2.29
29 - 20	29 BL	19	2.48
29 - 20 FFG	29 BL FFG	19	2.48
29 - 34	29 BL	19	2.48
29 - 34 FFG	29 BL FFG	19	2.48
29 - 35	29 BL	19	2.48
29 - 35 FFG	29 BL FFG	19	2.48
29 - 38	29 BK	19	2.29
29 - 39	29 BK	19	2.29
29 - 49	29 BL	19	2.48
29 - 49 FFG	29 BL FFG	19	2.48
29 - 63	29 BB	22	2.34
29 - 64	29 BB	22	2.34
29 - C - 150	150	7	2.28
29 - C - 300	251	17	2.47
29 - C - 300 LG	251 EL	17	2.48
29 - C - 300 LG FFG	251 EL FFG	17	2.48
29 - 383	29 BK	19	2.29
29 C 440 ≤ 110	1738	1	2.09
31 x 1	31 x 1	4	2.34
34 ≤ 110	34	1	2.12
34 GEBEDUR ≤ 110	34	2	2.12
34 120-140	34	1	2.16
34 ≥ 150	134	1	2.18
34 GEBEDUR ≥ 150	134	2	2.18
34 CL ≤ 110	34 CL	3	2.15
34 CL SD	16 x 246 SD	5	2.13
34 D ≤ 110	34 D	3	2.12
34 D 120-140	34 D	3	2.17

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
34 D ≥ 150	134 D	4	2.19
34 FFG ≤ 110	34 FFG	1	2.12
34 FFG 120-140	34 FFG	1	2.16
34 FG	34 FG	1	2.12
34 LL ≤ 110	34 LL	3	2.13
34 LL 120-140	34 LL	3	2.17
34 LL ≥ 150	134 LL	4	2.20
34 LR ≤ 110	34 LR	3	2.13
34 LR 120-140	34 LR	3	2.17
34 LR ≥ 150	134 LR	4	2.20
34 P ≤ 110	34 P	3	2.13
34 P ≥ 150	134 P	4	2.21
34 PCL ≤ 110	34 PCL	3	2.14
34 PCL ≥ 150	134 PCL	4	2.24
34 PCR ≤ 110	16 x 6	3	2.14
34 PCR 120-140	34 PCR	3	2.18
34 PCR ≥ 150	134 PCR	4	2.24
34 PS ≤ 110	34 P	3	2.13
34 PS ≥ 150	134 P	4	2.21
34 S ≤ 110	34 S	3	2.13
34 S 120-140	34 S	3	2.17
34 S ≥ 150	134 S	4	2.21
35.19	FD 5	14	2.45
43 - 0100	251 FFG	17	2.47
44 x 1 ≤ 110	34	1	2.12
44 x 3	1128	1	2.05
44 x 3 FFG	1128 FFG	1	2.05
44 x 3 FG	1128 FG	1	2.05
46 x 1	46 x 1	6	2.29
48.50	490 F	9	2.56
48.51	490	3	2.56
48.59 F LG	2331 F LG	10	2.62
60 A	151 x 9	22	2.05
60 M	151 x 7	17	2.04
60 M FFG	151 x 7 FFG	17	2.04
60 M FG	151 x 7 FG	17	2.04
60 MA	151 x 9	22	2.05
60 MH	151 x 7	17	2.04
60 MSD	151 x 7	17	2.04
60 MSD FFG	151 x 7 FFG	17	2.04
60 MSD FG	151 x 7 FG	17	2.04
61 B	135 x 1	2	2.08
61 B FFG	135 x 1 FFG	2	2.08
61 B FG	135 x 1 FG	2	2.08
62 x 1	UY 121 GS	4	2.46
62 x 21 ≤ 110	UY 121 GS	4	2.46
62 x 21 ≥ 120	1280 KSP	4	2.43
62 x 21 FFG	UY 121 GHS	4	2.46
62 x 33	62 x 57	8	2.38



Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
62 x 40 TRI	5640 D	9	2.39
62 x 43 ≤ 110	62 x 43	7	2.43
62 x 43 ≥ 120	UY 130 GS	8	2.44
62 x 43 R ≥ 120	UY 130 GS R	8	2.44
62 x 45 ≤ 110	149 x 5	6	2.49
62 x 45 ≥ 120	62 x 45	6	2.49
62 x 47 ≤ 110	62 x 43	7	2.43
62 x 47 ≥ 120	UY 130 GS	8	2.44
62 x 47 R ≥ 120	UY 130 GS R	8	2.44
62 x 53 ≤ 110	149 x 5	6	2.49
62 x 53 ≥ 120	62 x 45	6	2.49
62 x 57	62 x 57	8	2.38
62 x 57 GEBEDUR	62 x 57	10	2.38
62 x 57 FFG	62 x 57 FFG	8	2.39
62 x 57 FG	62 x 57 FG	8	2.39
62 x 57 SAN 1	62 x 57 SAN 1	8	2.39
62 x 57 SAN 6	62 x 57 SAN 6	9	2.39
62 x 57 SAN 10	62 x 57 SAN 10	9	2.39
62 x 59	62 x 59	9	2.49
62 x 59 SAN 1	62 x 59 SAN 1	10	2.49
62 x 59 SE	62 x 59 SAN 1	10	2.49
62 x 63	62 x 59	9	2.49
62 x 69 ≤ 110	UY 121 GS	4	2.46
62 x 69 ≥ 120	1280 KSP	4	2.43
62 x 79	62 x 59	9	2.49
62 x 83 ≤ 110	149 x 5	6	2.49
62 x 83 ≥ 120	62 x 45	6	2.49
62 x 95 FFG	UY 121 GHS	4	2.46
B 63	B 63	4	2.44
B 63 GEBEDUR	B 63	7	2.44
B 63 FFG	B 63 FFG	4	2.44
B 63 FFG GEBEDUR	B 63 FFG	7	2.44
B 63 FG	B 63 FG	4	2.44
B 63 FG GEBEDUR	B 63 FG	7	2.44
B 63 R	B 63 R	4	2.44
B 63 SAN 10	B 63 SAN 10	5	2.46
B 63 SAN 10 GEBEDUR	B 63 SAN 10	7	2.46
B 63 SAN 10 FG	B 63 SAN 10 FG	5	2.46
B 63 SKL	B 63 SKL	4	2.44
B 63 - 2	B 63 SAN 10	5	2.46
B 63 - 2 FG	B 63 SAN 10 FG	5	2.46
64	64	13	2.02
B 64	B 64	4	2.31
B 64 FFG	B 64 FFG	4	2.31
B 64 FG	B 64 FG	4	2.31
66	24 x 1	10	2.01
B 67	B 67	6	2.35
B 67 FFG	B 67 FFG	6	2.35
B 67 SKL	B 67 SKL	6	2.35

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
68 x 3	3207 CR RG	4	2.14
68 x 3 R	3207 CR	4	2.14
68 x 5	68 x 5	3	2.16
68 x 5 FFG	68 x 5 FFG	3	2.16
68 x 7	3207 CR	4	2.14
68 x 23	3207 CR	4	2.14
71 EL 100-140	71 L	18	2.53
71 EL 160	71 L	18	2.56
71 EL 180+200	71 L	18	2.60
71 ER 100-140	71 R	18	2.53
71 ER 160	71 R	18	2.56
71 ER 180+200	71 R	18	2.61
71 L 100-140	71 L	18	2.53
71 L 160	71 L	18	2.56
71 L 180+200	71 L	18	2.61
71 R 100-140	71 R	18	2.53
71 R 160	71 R	18	2.56
71 R 180+200	71 R	18	2.61
71 x 1 ≤ 110	1738	1	2.09
71 x 1 GEBEDUR ≤ 110	1738	2	2.09
71 x 1 ≥ 120	71 x 1	1	2.14
71 x 1 GEBEDUR ≥ 120	71 x 1	2	2.14
71 x 1 FFG ≤ 110	1738 FFG	1	2.10
71 x 1 FFG ≥ 120	71 x 1 FFG	1	2.14
71 x 1 FG ≤ 110	1738 FG	1	2.10
71 x 1 RS ≤ 110	1738 RS	1	2.10
71 x 1 SD ≤ 110	1738 SD	3	2.10
71 x 5	108 x 3	3	2.34
81	81	5	2.49
81 x 1	81 x 1	4	2.04
81 x 1 GEBEDUR	81 x 1	7	2.04
81 x 1 FFG	81 x 1 FFG	4	2.04
81 x 1 FFG GEBEDUR	81 x 1 FFG	7	2.04
81 x 1 FG	81 x 1 FG	4	2.04
81 x 1 SAN 10	81 X 1 SAN 10	5	2.04
81 x 5	B 29	6	2.03
81 x 5 FFG	B 29 FFG	6	2.03
81 x 5 FG	B 29 FG	6	2.03
82 x 1	81 x 1	4	2.04
82 x 1 FFG	81 x 1 FFG	4	2.04
82 x 1 FG	81 x 1 FG	4	2.04
82 x 11	DM x 13	5	2.03
82 x 11 FFG	DM x 13 FFG	5	2.03
82 x 11 FG	DM x 13 FG	5	2.03
82 x 13	DM x 13	5	2.03
82 x 13 FFG	DM x 13 FFG	5	2.03
82 x 13 FG	DM x 13 FG	5	2.03
L 83	L 83	6	2.55
88	88	8	2.55



Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
88 H	88 H	3	2.55
88 HK	88 HK	5	2.55
88 L	88 LR	8	2.55
88 LR	88 LR	8	2.55
88 x 1	1128	1	2.05
88 x 1 FFG	1128 FFG	1	2.05
88 x 1 FG	1128 FG	1	2.05
88 x 9	1128	1	2.05
88 x 9 FFG	1128 FFG	1	2.05
88 x 9 FG	1128 FG	1	2.05
92 x 1	UY 143 GS	11	2.50
92 x 27 DIA	92 x 27 DIA	14	2.54
94 x 5	573 N	9	2.08
96 x 1 ≤ 110	1738	1	2.09
C 100 S	C 100 S	24	2.64
UY 101 GS	UY 106 GS	5	2.31
104	292 SP	7	2.01
104 SC	UY 133 GS	9	2.45
UY 106 GHS	UY 106 GHS	5	2.31
UY 106 GKS	UY 106 GS	5	2.31
UY 106 GLS	UY 106 GHS	5	2.31
UY 106 GS	UY 106 GS	5	2.31
UY 108 GAS	UY 108 GS	7	2.33
UY 108 GHS	UY 108 GHS	7	2.33
UY 108 GKS	UY 108 GKS	7	2.31
UY 108 GS	UY 108 GS	7	2.33
UY 108 TAS	UY 108 TS	7	2.33
UY 108 THS	UY 108 THS	7	2.33
UY 108 TS	UY 108 TS	7	2.33
108 x 1	108 x 1	3	2.34
108 x 1 FFG	108 x 1	3	2.34
108 x 3	108 x 3	3	2.34
UY 109 GS	UY 109 GS	7	2.31
110 S	110 S	6	2.52
110 S BIL	110 S TR	6	2.52
110 S FFG	110 S FFG	6	2.51
110 S FG	110 S FG	6	2.51
110 S G	110 S TR	6	2.52
110 S TOP	110 S TOP	6	2.54
110 S TR	110 S TR	6	2.52
UY 110 GAS	UY 110 GAS	8	2.31
UY 110 GS	UY 110 GAS	8	2.31
UY 113 GES	UY 113 GES	8	2.32
UY 113 GES R	UY 113 GES R	8	2.32
UY 113 GES R GEBEDUR	UY 113 GES R	10	2.32
UY 113 GHS	UY 113 GHS	8	2.32
UY 113 GS	UY 113 GS	8	2.32
UY 113 GS GEBEDUR	UY 113 GS	10	2.32
UY 113 GS FFG	UY 113 GHS	8	2.32

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
UY 113 THS	UY 113 THS	8	2.32
UY 113 TS	UY 113 TS	8	2.32
UY 113 TS FFG	UY 113 THS	8	2.32
114 SC	62 x 59	9	2.49
UY 118 GAS	UY 118 GAS	9	2.30
UY 118 GAS GEBEDUR	UY 118 GAS	12	2.30
UY 118 GAS FFG	UY 118 GAS FFG	9	2.30
UY 118 GAS FG	UY 118 GAS FG	9	2.30
UY 118 GBS	UY 118 GBS	8	2.30
UY 118 GBS GEBEDUR	UY 118 GBS	10	2.30
UY 118 GHS	UY 118 GHS	8	2.30
UY 118 GHS GEBEDUR	UY 118 GHS	10	2.30
UY 118 GKS	UY 118 GKS	9	2.30
UY 118 GKS GEBEDUR	UY 118 GKS	12	2.30
UY 120 GAS	UY 108 GS	7	2.33
UY 120 GBS	B 64	4	2.31
UY 120 GFS	UY 108 GS	7	2.33
UY 120 GHS	UY 108 GHS	7	2.33
UY 120 GKS	UY 108 GKS	7	2.31
UY 120 GLS	B 64 FFG	4	2.31
UY 120 GS	UY 108 GS	7	2.33
UY 120 GTS	B 64	4	2.31
UY 120 TAS	UY 108 TS	7	2.33
UY 120 TFS	UY 108 TS	7	2.33
UY 120 THS	UY 108 THS	7	2.33
UY 120 TS	UY 108 TS	7	2.33
T 121 S ≤ 110	UY 121 GS	4	2.46
T 121 S ≥ 120	1280 KSP	4	2.43
UY 121 GAS	B 63	4	2.44
UY 121 GBS	UY 121 GBS	4	2.41
UY 121 GHS	UY 121 GHS	4	2.46
UY 121 GJS ≤ 80	1280 KSP SAN 10	5	2.47
UY 121 GJS ≥ 85	UY 121 GJS	5	2.46
UY 121 GKS	1280 KSP	4	2.43
UY 121 GS ≤ 110	UY 121 GS	4	2.46
UY 121 GS ≥ 120	1280 KSP	4	2.43
UY 121 GS FFG	UY 121 GHS	4	2.46
UY 121 GUS	1280 KSP FG	4	2.43
UY 121 GWS	1280 KSP FFG	4	2.43
UY 121 GXS	B 63 FFG	4	2.44
123 - 14 LG	123 - 14 LG	9	2.45
UY 124 GS	UY 128-GAS	7	2.42
UY 124 GS R	UY 128 GAS R	7	2.42
UY 124 TS	UY 128 TAS	7	2.42
124 x 2	DR x 2	20	2.62
124 x 2 STAY	DR x 2	20	2.62
124 x 4	UY 1970 G	22	2.62
UY 126 GHS	UY 128 GBS	7	2.42
UY 126 GLS	UY 128 GBS	7	2.42



**SYSTEMLISTE**  
**LIST OF SYSTEMS**

GROZ-BECKERT®

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
SY 8666	573 N	9	2.08
SY 8669 ≤ 110	1738 RS	1	2.10
SY 8669 ≥ 120	134 RS	1	2.18
SY 8670 ≤ 110	134 KK FG	1	2.22
SY 8670 ≥ 120	134 FG	1	2.19
SY 8680	1055 K	4	2.31
SY 8681	1065 K	6	2.31
SY 8682	134 RS	1	2.18
SY 8684	B 63 FG	4	2.44
SY 8694	4463 KK	7	2.27
SY 8696	265 - 50 EO FG	5	2.26
SY 8699	134 FG	1	2.19
SY 8703	265 - 50 EO	5	2.26
SY 8714	3207 CR RG	4	2.14
SY 8717	134 FFG	1	2.19
SY 8724	1985	2	2.34
SY 8725	505 LG	5	2.35
SY 8726	UY 118 GAS FG	9	2.30
SY 8727	2018	3	2.49
SY 8728	2091	3	2.54
SY 8733	1985	2	2.34
SY 8745	2331 F LG	10	2.62
SY 8750	14 SP	8	2.50
SY 8753	108 x 1	3	2.34
SY 8755	7 x 3 KF	20	2.64
SY 8763 ≤ 110	438 KK	4	2.26
SY 8763 120	438	4	2.25
SY 8767	5640 D	9	2.39
SY 8778	134 - 35 FFG	3	2.35
SY 8779	190 FFG	4	2.52
SY 8788	B 27 FFG	4	2.02
SY 8791 ≤ 110	134 KK FFG	1	2.22
SY 8791 ≥ 120	134 FFG	1	2.18
SY 8799 ≤ 110	1738 FFG	1	2.10
SY 8799 ≥ 120	71 x 1 FFG	1	2.14
9168	9168	15	2.63
9168 FFG	9168 FFG	15	2.63
UY 9844 GA	UY 9844 GA	22	2.62
UY 9844 GS	UY 9844 GA	22	2.62
UY 9845 G	UY 9848 GS	21	2.63
UY 9846	UY 9844 GA	22	2.62
UY 9848 G	UY 9848 GS	21	2.63
UY 9848 GS	UY 9848 GS	21	2.63
UY 9854 G	UY 9854 GS	26	2.50
UY 9854 GS	UY 9854 GS	26	2.50
UY 9856 T	UY 9856 T	21	2.63
UY 9857 T	UY 9857 T	25	2.50
UY 9858 G	UY 9858 GS	23	2.51
UY 9858 GS	UY 9858 GS	23	2.51

Nadelsysteme Needle Systems	GB System GB System	PK PC	Kapitel/Seite Chapter/Page
UY 36211	UY 36211	4	2.01
UY 36211 A	UY 36211 A	4	2.01
42320	UY 154 GAS	15	2.06
42322	B 27	4	2.02
42322 FFG	B 27 FFG	4	2.02
42322 FG	B 27 FG	4	2.02
42322 R	B 27 R	4	2.02
42322 RS	B 27 RS	4	2.02
AI x 1	292 SP	7	2.01
AR x 332 LG	332 LG	3	2.55
BB x 155	B 155	8	2.09
BC x 5	FD 5	14	2.45
BC x 100	C 100 S	24	2.64
BL x 1 ≤ 110	1738 KK FFG	2	2.15
BL x 1 ≥ 120	71 x 1 FFG	1	2.14
BOZ - 11	12 - 690	22	2.29
BQ x 1	108 x 1	3	2.34
BQ x 3	108 x 3	3	2.34
BS x 1955	134	1	2.18
BS x 1955 FFG	134 FFG	1	2.19
BS x 1955 FG	134 FG	1	2.19
BS x 1955 RS	134 RS	1	2.18
CP x 1	150	7	2.28
CP x 660	660	21	2.34
CY x 1 160-180	216 x 1	15	2.59
CY x 1 ≥ 200	216 x 1	15	2.60
CY x 7	216 x 7	21	2.60
DA x 1	1128	1	2.05
DA x 1 FFG	1128 FFG	1	2.05
DA x 1 FG	1128 FG	1	2.05
DA x 9	1128	1	2.05
DA x 9 FFG	1128 FFG	1	2.05
DA x 9 FG	1128 FG	1	2.05
DB x 1	DB x 1	1	2.09
DB x 1 - 2 ≤ 110	1738	1	2.09
DB x 1 - 2 ≥ 120	134	1	2.18
DB x 1 FFG	DB x 1 FFG	1	2.09
DB x 1 KN	1738 SAN 10	2	2.15
DB x F2 ≤ 110	1738 LR	4	2.11
DB x F2 ≥ 120	134 LR	4	2.20
DB x P3 ≤ 110	1738 ER	9	2.10
DB x K5	DB x K5	1	2.15
DB x K5 GEBEDUR	DB x K5	2	2.15
DB x K5 FFG	DB x K5 FFG	1	2.15
DB x K5 FFG GEBEDUR	DB x K5 FFG	2	2.15
DB x K5 FG	DB x K5 FG	1	2.15
DB x K5 SD	DB x K5 SD	3	2.15
DB - N20	1738 KK	2	2.15
DB - N20 FFG	1738 KK FFG	2	2.15



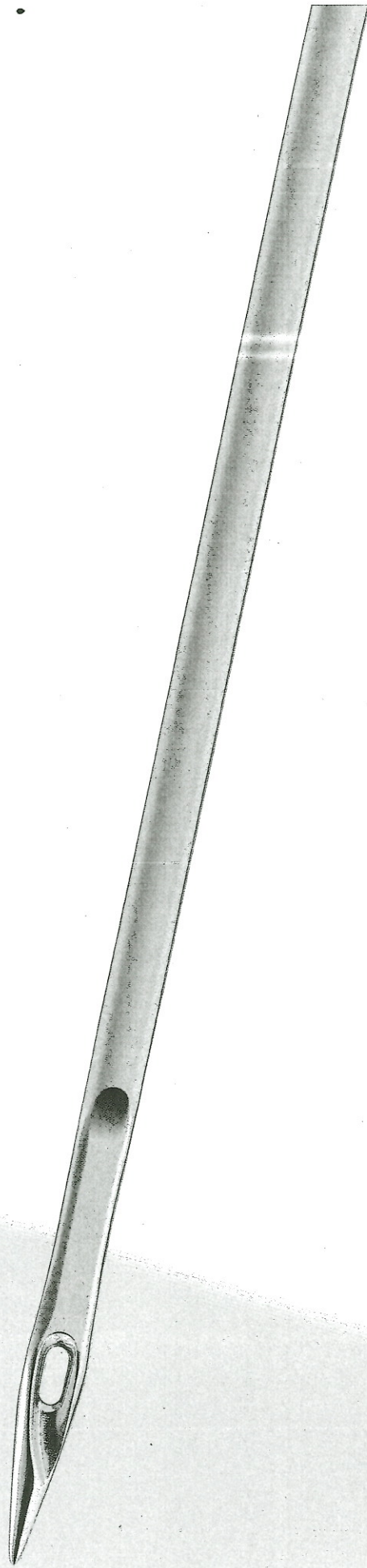
ladelsysteme needle Systems		GB System GB System	PK PC	Kapitel/Seite Chapter/Page
DB x A20	≥ 120	287	1	2.11
DB x 95	≤ 110	1738	1	2.09
DB x 95	≥ 120	71 x 1	1	2.14
DB x 95 FFG	≤ 110	1738 FFG	1	2.10
DB x 95 FFG	≥ 120	71 x 1 FFG	1	2.14
DB x 95 FG	≤ 110	1738 FG	1	2.10
DB x 130	≤ 110	34	1	2.12
DB x 130 B	≤ 110	34	1	2.12
DB x 231	≤ 110	1738	1	2.09
DB x 231 FFG	≤ 110	1738 FFG	1	2.10
DB x 231 FG	≤ 110	1738 FG	1	2.10
DB x 257	≤ 110	1738	1	2.09
DB x 257	≥ 120	134	1	2.18
DB x 257 FFG	≤ 110	1738 FFG	1	2.10
DB x 257 FFG	≥ 120	134 FFG	1	2.18
DB x 257 FG	≤ 110	1738 FG	1	2.10
DB x 257 FG	≥ 120	134 FG	1	2.19
DB x 257 RS	≤ 110	1738 RS	1	2.10
DB x 257 RS	≥ 120	134 RS	1	2.18
DB x 257 SD	≤ 110	1738 SD	3	2.10
DB x 257 SD	≥ 120	134 SD	3	2.19
DB x 287 WKH		287 WKH	3	2.11
DB x 287 WKH FFG		287 WKH FFG	3	2.12
DB x 287 WKH FG		287 WKH FG	3	2.12
DB x 287 WKH RG		287 WKH RG	3	2.11
DB x 1738	≤ 110	1738	1	2.09
DB x 1738	≥ 120	134	1	2.18
DB x 1738 FFG	≤ 110	1738 FFG	1	2.10
DB x 1738 FFG	≥ 120	134 FFG	1	2.18
DB x 1738 FG	≤ 110	1738 FG	1	2.10
DB x 1738 FG	≥ 120	134 FG	1	2.19
DB x 1738 KK ER		1738 KK ER	7	2.11
DB x 1738 RS	≤ 110	1738 RS	1	2.10
DB x 1738 RS	≥ 120	134 RS	1	2.18
DC x 1		81 x 1	4	2.04
DC x 1 F		DC x 1 F	6	2.04
DC x 1 F FFG		DC x 1 F FFG	6	2.04
DC x 1 FFG		81 x 1 FFG	4	2.04
DC x 1 FG		81 x 1 FG	4	2.04
DC x 1 KN		81 X 1 SAN 10	5	2.04
DC x N17		MY 1023 A SAN 1	4	2.03
DC x 27		B 27	4	2.02
DC x 27 FFG		B 27 FFG	4	2.02
DC x 27 FG		B 27 FG	4	2.02
DC x 27 KN		B 27 SAN 10	5	2.04
DC x 27 R		B 27 R	4	2.02
DC x 27 RS		B 27 RS	4	2.02
DC x 27 SKL		B 27 SKL	4	2.02
DC x C46		B 27 FM - B	14	2.03

Nadelsysteme Needle Systems		GB System GB System	PK PC	Kapitel/Seite Chapter/Page
DC x C47		B 27 FM - B	14	2.03
DC x 1072		MY 1072	10	2.03
DC x 1072 FFG		MY 1072 FFG	10	2.03
DD x 1	≤ 140	328	9	2.57
DD x 1	150-190	328	9	2.58
DD x 1	≥ 200	328	9	2.59
DD x 2	≤ 140	328 LL	11	2.57
DD x 2	150-190	328 LL	11	2.58
DD x 2	≥ 200	328 LL	11	2.59
DD x 2 LR	≤ 140	328 LR	11	2.57
DD x 2 LR	150-190	328 LR	11	2.58
DD x 2 LR	≥ 200	328 LR	11	2.59
DD x 328 A		328 A	9	2.59
DF x F19	≥ 120	134 S	4	2.21
DH x 1		24 x 1	10	2.01
DI x 1		332	2	2.40
DI x 3		332	2	2.40
DI x 4		332 LL	5	2.40
DI x 4 LR		332 LR	5	2.40
DL x 1	≤ 110	1738	1	2.09
DL x 1	≥ 120	71 x 1	1	2.14
DL x 1 FFG	≤ 110	1738 FFG	1	2.10
DL x 1 FFG	≥ 120	71 x 1 FFG	1	2.14
DL x 1 FG	≤ 110	1738 FG	1	2.10
DL x 5		108 x 3	3	2.34
DL x 95		71 x 1	1	2.14
DL x 95 FFG		71 x 1 FFG	1	2.14
DM x 1		81 x 1	4	2.04
DM x 1 FFG		81 x 1 FFG	4	2.04
DM x 1 FG		81 x 1 FG	4	2.04
DM x 13		DM x 13	5	2.03
DM x 13 FFG		DM x 13 FFG	5	2.03
DM x 13 FG		DM x 13 FG	5	2.03
DN x 1		UY 143 GS	11	2.49
DO x 5		142 x 5	5	2.06
DO x 558		558	6	2.27
DP x 1		135 x 1	2	2.08
DP x 1 FFG		135 x 1 FFG	2	2.08
DP x 1 FG		135 x 1 FG	2	2.08
DP x 5		134	1	2.18
DP x 5 FFG		134 FFG	1	2.19
DP x 5 FG		134 FG	1	2.19
DP x 5 KN		134 SAN 10	2	2.26
DP x 5 KN FG		134 SAN 10 FG	2	2.27
DP x 5 RS		134 RS	1	2.18
DP x 5 SAN 6		134 SAN 6	2	2.27
DP x 5 SKL		134 SKL	1	2.19
DP x 7		134	1	2.18
DP x 7 FFG		134 FFG	1	2.19









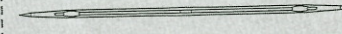



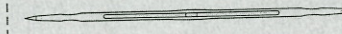




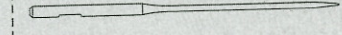





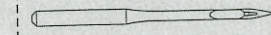















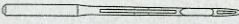





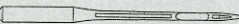





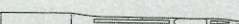











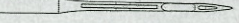














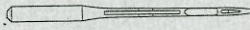





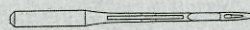





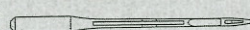





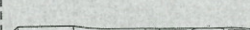





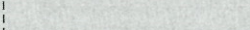







GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
FLS - 351	25	80 12	0.80 EN07 RS 		RS/SPI 	FLS - 351
AMF 1032 B1-26	24	90	0.90 EN01 RS 		RS/SPI 	1032 B1-26
AMF 1032 B1-38	24	100	0.100 EN02 RS 		RS/SPI 	1032 B1-38
AMF 2000 A-38	24	100	0.100 EN04 RS 		RS/SPI 	2000 A-38
AMF 1032 B1-36	24	100	0.100 EN06 RS 		RS/SPI 	1032 B1-36
AMF 1032 B1-49	24	110	0.110 EN03 RS 		RS/SPI 	1032 B1-49
AMF 2000 A-50	24	110	0.110 EN05 RS 		RS/SPI 	2000 A-50
UY 36211 A	4	65 025	0.150 HC01 RG 		RG 	UY 36211 A
UY 36211	4	65 70 75 80 025 027 029 032	0.150 HC02 RG 		RG 	UY 36211
292 SP	7	45 55 65 80 110 21 18 14 11 6	219.0 CC01 RS 		RS/SPI 	292 SP, 392, 292 A, 176 x 1, Al x 1
W&G 511	12	140 55	281.201 AC01 R 		R 	W&G 511
24 x 1	10	75 80 90 100 110 160 11 12 14 16 18 23	282.200 AC02 R 		R 	24 x 1, 2060, DH x 1





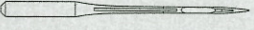



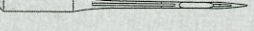



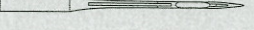



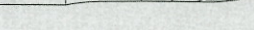

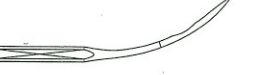







GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
W&G 513	16	100 40 110 44 125 49 140 55	282.200 AC03 R 		R 	W&G 513
64	13	90 14 100 16 110 18 120 19	282.202 AC01 R 		R 	64, W&G 502, SOABAR, WG x 64
B 26	5	70 10 80 12 90 100 16 110 18	286.150 BC01 RG 		RG 	B 26, RM x 26
B 26 FG	5	70 10 80 12 90 14	286.150 BC01 FG 		FG/SUK 	B 26, RM x 26
B 27	4	50 6 55 7 60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 15 110 16 120 17 125 18 130 19 140 20 150 21 22	286.202 BC01 RG 		RG 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27
B 27 GEBEDUR	7	60 8 65 9 70 10 75 11 80 12 90 13 100 14 110 15 120 16 19	286.202 BD01 RG 		RG 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27
B 27 R	4	60 8 65 9 70 10 75 11 80 12 90 13 100 14 110 15 120 16 130 17 21	286.202 BC01 R 		R 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27, UY 3027 GS
B 27 RS	4	70 10 80 12 90 14 100 16	286.202 BC01 RS 		RS/SPI 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27
B 27 FFG	4	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 15 110 16 120 17 19	286.202 BC01 FFG 		FFG/SES 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27
B 27 FFG GEBEDUR	7	60 8 65 9 70 10 75 11 80 12 90 13 100 14 110 15 120 16 19	286.202 BD01 FFG 		FFG/SES 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27
B 27 FG	4	60 8 65 9 70 10 75 11 80 12 90 13 100 14 110 15 120 16 130 17 21	286.202 BC01 FG 		FG/SUK 	B 27, SY 6120, MY 1023, 1886, UY 3027 GHS, DC x 27, RM x 27
B 27 SKL	4	65 9 70 10 80 12	286.202 BC01 SKL 		SKL 	B 27, SY 6120, MY 1023, 1886, DC x 27, RM x 27







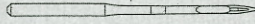


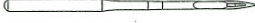


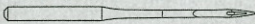








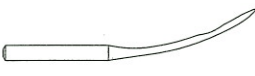


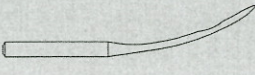













GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
B 27 P	4	70 10 80 12	286.202 BC01 P 		P/NW 	B 27 P
B 27 FM - B	14	70 10 80 12 90 14	286.202 BC02 RG 		RG 	B 27 FM-B, RM x 27 FMB
B 29	6	60 8 70 10 75 11 80 12 90 14 100 16 110 18 120 19 130 21	286.202 BC03 RG 		RG 	B 29, B 29 A, UY 3029 GS, RM x 29
B 29 FFG	6	60 8 65 9 70 10 75 11 80 12 90 14 100 16 110 18	286.202 BC03 FFG 		FFG/SES 	B 29, B 29 A, UY 3029 GHS, RM x 29
B 29 FG	6	60 8 70 10 80 12 90 14 100 16	286.202 BC03 FG 		FG/SUK 	B 29, B 29 A, UY 3029 GHS, RM x 29
B 29 P	6	70 10 80 12	286.202 BC03 P 		P/NW 	B 29 P
DM x 13	5	65 9 70 10 75 11 80 12 90 14 100 16 110 18 120 19 130 21	286.202 BC04 RG 		RG 	DM x 13, 82 x 13, 1886 KK
DM x 13 FFG	5	65 9 70 10 75 11 80 12 90 14 100 16	286.202 BC04 FFG 		FFG/SES 	DM x 13, 82 x 13, 1886 KK
DM x 13 FG	5	80 12 90 14	286.202 BC04 FG 		FG/SUK 	DM x 13, 82 x 13, 1886 KK
MY 1023 A SAN 1	4	75 11 80 12	286.202 BC05 RG 		RG 	MY 1023 A SAN 1, DC x N17
MY 1072	10	70 10 80 12 90 14 100 16 110 18 120 19	286.202 BC06 R 		R 	MY 1072, 1886 DC, 621 D, DC x 1072
MY 1072 FFG	10	70 10 80 12 90 14	286.202 BC06 FFG 		FFG/SES 	MY 1072, 1886 DC, 621 D, DC x 1072

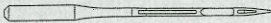





























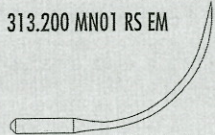







GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
DC x 1 F	6	70 <sub>10</sub> 80 <sub>12</sub> 90 <sub>14</sub>	286.202 BC08 R 		R	DC x 1 F
DC x 1 F FFG	6	80 <sub>12</sub> 90 <sub>14</sub>	286.202 BC08 FFG 		FFG/SES	DC x 1 F
81 x 1	4	55 <sub>7</sub> 60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 85 <sub>13</sub> 90 <sub>14</sub> 100 <sub>16</sub> 110 <sub>18</sub> 120 <sub>19</sub> 125 <sub>20</sub> 130 <sub>21</sub> 140 <sub>22</sub>	286.202 BC09 RG 		RG	81 x 1, DC x 1, DM x 1, 82 x 1, MY 1023 A
81 x 1 GEBEDUR	7	60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub>	286.202 BD09 RG 		RG	81 x 1, DC x 1, DM x 1, 82 x 1, MY 1023 A
81 x 1 FFG	4	55 <sub>7</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 85 <sub>13</sub> 90 <sub>14</sub> 100 <sub>16</sub>	286.202 BC09 FFG 		FFG/SES	81 x 1, DC x 1, DM x 1, 82 x 1, MY 1023 A
81 x 1 FFG GEBEDUR	7	60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub>	286.202 BD09 FFG 		FFG/SES	81 x 1, DC x 1, DM x 1, 82 x 1, MY 1023 A
81 x 1 FG	4	65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 90 <sub>14</sub> 100 <sub>16</sub>	286.202 BC09 FG 		FG/SUK	81 x 1, DC x 1, DM x 1, 82 x 1, MY 1023 A
81 x 1 SAN 10	5	65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub>	286.202 BC10 RG 		RG	81 x 1 SAN 10, DC x 1 KN
B 27 SAN 10	5	65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub>	286.202 BC12 RG 		RG	B 27 SAN 10, DC x 27 KN
151 x 7	17	65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 90 <sub>14</sub> 100 <sub>16</sub> 110 <sub>18</sub> 120 <sub>19</sub> 130 <sub>21</sub> 150	291.202 MC01 R 		R	151 x 7, 151 x 5, 60 M, 60 MSD, MY 1151, TL x 7, MR x R9
151 x 7 FFG	17	70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 90 <sub>14</sub> 100 <sub>16</sub>	291.202 MC01 FFG 		FFG/SES	151 x 7, 151 x 5, 60 M, 60 MSD, MY 1151, TL x 7, MR x R9
151 x 7 FG	17	80 <sub>12</sub>	291.202 MC01 FG 		FG/SUK	151 x 7, 151 x 5, 60 M, 60 MSD, MY 1151, TL x 7, MR x R9







































GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
151 x 9	22	90 14 100 16	291.202 MC02 RG 		RG 	151 x 9, 151 x 11, 60 A, 60 MA, MY 1519, TL x 9
1128	1	60 65 70 75 80 90 8 9 10 11 12 14 100 110 120 125 130 16 18 19 20 21	296.163 AC01 R 		R 	1128, 88 x 1, 88 x 9, 44 x 3, DA x 1, DA x 9
1128 FFG	1	65 70 75 80 90 100 9 10 11 12 14 16	296.163 AC01 FFG 		FFG/SES 	1128, 88 x 1, 88 x 9, 44 x 3, DA x 1, DA x 9
1128 FG	1	70 80 90 10 12 14	296.163 AC01 FG 		FG/SUK 	1128, 88 x 1, 88 x 9, 44 x 3, DA x 1, DA x 9
UY 183 GYS	5	70 75 80 90 100 110 027 029 032 036 040 044	296.182 AC01 R 		R 	UY 183 GYS, UY 183 GPS, UO x 183 G
UY 183 GXS	5	70 75 80 90 100 110 027 029 032 036 040 044	296.182 AC01 FFG 		FFG/SES 	UY 183 GXS, UY 183 GNS
UY 162 SAS	17	60 65 70 75 80 90 024 025 027 029 032 036 100 110 040 044	306.201 MC01 RG 		RG 	UY 162 SAS
UY 162 SAS R	17	70 75 80 027 029 032	306.201 MC01 R 		R 	UY 162 SAS, W&G 576, 661
UY 162 GBS	17	65 70 75 80 025 027 029 032	306.201 MC01 FFG 		FFG/SES 	UY 162 GBS, W&G 576, 661
UY 162 SDS	20	65 70 75 80 90 100 025 027 029 032 036 040	306.201 MC02 RG 		RG 	UY 162 SDS
576 SAN 1	17	55 65 22 25	306.202 MC01 RG 		RG 	576 SAN 1
Bonis H	7	140 22	307.163 AC01 R 		R 	Bonis H



GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
142 x 5	5	80 12 90 14 100 16 110 18 120 19 130 21	312.200 BC01 RG 		RG 	142 x 5, 1778, DO x 5
UY 154 GBS	20	65 025 70 027 75 029 80 032 90 036	312.201 MC01 RG 		RG 	UY 154 GBS, UY x 154 GBS
UY 154 TBS	20	75 029 80 032 90 036	312.201 MK01 RG 		RG 	UY 154 TBS, UY x 154 GBS
UY 154 ZA	20	65 025 70 027 75 029 80 032 90 036	312.201 MC01 FFG 		FFG/SES 	UY 154 ZA
UY 154 GDS	20	65 025 70 027 75 029 80 032 90 036 100 040	312.201 MC02 RG 		RG 	UY 154 GDS, UY x 154 GDS
UY 154 GDS FFG	20	75 029	312.201 MC02 FFG 		FFG/SES 	UY 154 GDS, UY x 154 GDS
UY 154 GFS	20	65 025 70 027 75 029 80 032	312.201 MC03 RG 		RG 	UY 154 GFS, UY 154 GCS, UY x 154 GCS
UY 154 JCM	20	75 029	312.201 MC04 FFG 		FFG/SES 	UY 154 JCM
UY 154 GBS SAN 1	20	75 029	312.201 MC05 FFG 		FFG/SES 	UY 154 GBS SAN 1
UY 154 GDS SAN 1	20	75 029 80 032	312.201 MC06 RG 		RG 	UY 154 GDS SAN 1
4117	23	80 12 90 14 100 16	313.200 MN01 RS EM 		RS EM 	4117
UY 154 GAS	15	55 022 60 024 65 025 70 027 75 029 80 032 90 036 100 040 110 044 120 048 125 049 140 054 150 060	315.201 MC01 RG 		RG 	UY 154 GAS, 151 x 21, SY 1431, UY x 154 GAS



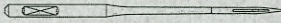



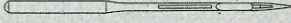

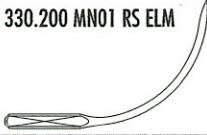

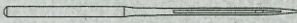



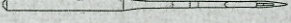



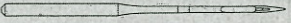



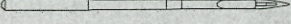



GB System GB System	PK PC	Needledicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
UY 154 TAS	15	65 70 75 80 90 100 025 027 029 032 036 040 110 125 044 049	315.201 MK01 RG 		RG 	UY 154 TAS, 151 x 21, SY 1431, UY x 154 GAS
UY 154 GHS	15	55 60 65 70 75 80 022 024 025 027 029 032 90 100 110 125 036 040 044 049	315.201 MC01 FFG 		FFG/SES 	UY 154 GHS, 151 x 21, SY 1433
UY 154 THS	15	65 70 75 80 90 110 025 027 029 032 036 044	315.201 MK01 FFG 		FFG/SES 	UY 154 THS, 151 x 21, SY 1433
UY 154 GHS FG	15	55 70 75 80 90 022 027 029 032 036	315.201 MC01 FG 		FG/SUK 	UY 154 GHS, 151 x 21, SY 1434
UY 154 GJS	18	65 70 75 80 90 025 027 029 032 036	315.201 MC02 FFG 		FFG/SES 	UY 154 GJS
UY 8454 GS	20	65 70 75 80 90 100 025 027 029 032 036 040 110 044	315.201 MC03 RG 		RG 	UY 8454 GS, UY x 8454, SY 1435
UY 8454 GHS	20	55 70 80 90 100 022 027 032 036 040	315.201 MC03 FFG 		FFG/SES 	UY 8454 GHS
UY 8454 GHS FG	20	70 027	315.201 MC03 FG 		FG/SUK 	UY 8454 GHS
UY 8455 GS	20	55 65 70 022 025 027	315.201 MC04 RG 		RG 	UY 8455 GS
UY 8456 GS	20	55 65 70 022 025 027	315.201 MC05 RG 		RG 	UY 8456 GS
UY 8455 SAN 1	20	55 022	315.201 MC06 RG 		RG 	UY 8455 SAN 1
UY 8456 SAN 1	20	55 022	315.201 MC07 RG 		RG 	UY 8456 SAN 1



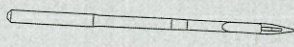

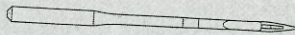

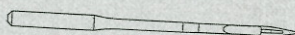

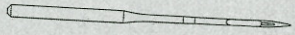

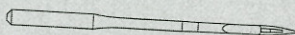

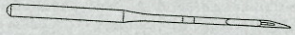

GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
5620	3	70 10 80 12	316.200 AC01 R 		R 	5620
135 x 1	2	55 60 65 70 75 80 7 8 9 10 11 12 90 100 110 120 125 130 14 16 18 19 20 21 140 22	318.200 AC01 R 		R 	135 x 1, 354, 1673, DP x 1,
135 x 1 FFG	2	70 80 90 10 12 14	318.200 AC01 FFG 		FFG/SES 	135 x 1, 354, 1673, DP x 1
135 x 1 FG	2	65 70 9 10	318.200 AC01 FG 		FG/SUK 	135 x 1, 354, 1673, DP x 1
573 N	9	55 60 65 70 75 80 7 8 9 10 11 12 90 14	320.100 BC01 RS 		RS/SPI 	573 N, 94 x 5, NB x 5
501 SC	4	70 75 80 90 100 110 4/0 3/0 2/0 0 1 2 120 130 3 4	330.163 AC01 R 		R 	501 SC, 1807 D, 755 H, 500 SC, EB x 755
505 SC	4	70 80 90 100 110 120 4/0 2/0 0 1 2 3	330.163 AC01 FFG 		FFG/SES 	505 SC, 1807 D, 755 H, EB x 755
508 SC	6	110 120 2 3	330.163 AC01 QR 		QR 	508 SC
750 SC	7	70 75 80 90 100 110 4/0 3/0 2/0 0 1 2 120 3	330.163 AC03 R 		R 	750 SC, 750 H, 750 LS, EB x 750
751 SC	7	70 75 80 90 100 4/0 3/0 2/0 0 1	330.163 AC03 FFG 		FFG/SES 	751 SC, 751 LS
750 SC FG	7	80 90 100 2/0 0 1	330.163 AC03 FG 		FG/SUK 	750 SC, 750 H, 750 LS, EB x 750
750 SAN 1	7	60 65 8 9	330.163 AC04 RG 		RG 	750 SAN 1



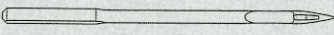





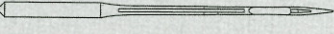











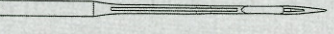





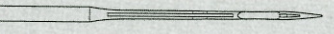





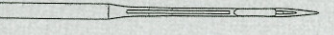







GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
750 SAN 2	7	80 12	330.163 AC07 RG 		RG	750 SAN 2
503 SC	5	100 <sub>1</sub> 110 <sub>2</sub> 120 <sub>3</sub>	330.163 BC01 R 		R	503 SC, 1807 A, 1807 - 2
503 SC GEBEDUR	7	90 <sub>0</sub> 100 <sub>1</sub> 110 <sub>2</sub> 120 <sub>3</sub>	330.163 BD01 R 		R	503 SC, 1807 A, 1807 - 2
4118	23	100 16	330.200 MN01 RS ELM 		RS ELM	4118
459 R	5	36 <sub>23</sub> 40 <sub>21</sub> 45 <sub>20</sub> 50 <sub>19</sub> 55 <sub>18</sub> 60 <sub>17</sub> 65 <sub>16</sub> 70 <sub>15</sub> 75 <sub>14</sub> 80 <sub>13</sub> 90 <sub>12</sub> 100 <sub>11</sub> 110 <sub>10</sub> 120 <sub>9</sub> 130 <sub>8</sub>	335.140 AC01 RS 		RS/SPI	459 R, 1567, EB x 1567
B 155	8	100 <sub>16</sub> 110 <sub>18</sub> 120 <sub>19</sub>	337.200 BC01 R 		R	B 155, BB x 155
DB x 1	1	60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 85 <sub>13</sub> 90 <sub>14</sub> 100 <sub>16</sub> 110 <sub>18</sub>	338.162 AC01 R 		R	DB x 1
DB x 1 FFG x	1	55 <sub>7</sub> 60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 85 <sub>13</sub> 90 <sub>14</sub> 100 <sub>16</sub>	338.162 AC01 FFG 		FFG/SES A	DB x 1
1738	1	55 <sub>7</sub> 60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 85 <sub>13</sub> 90 <sub>14</sub> 100 <sub>16</sub> 110 <sub>18</sub>	339.163 AC01 R 		R	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
	1	120 <sub>19</sub> 125 <sub>20</sub> 130 <sub>21</sub> 140 <sub>22</sub> 150 <sub>23</sub> 160 <sub>23</sub> 180 <sub>24</sub> 200 <sub>25</sub>	→ 2.18 339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
	1	120 <sub>19</sub> 125 <sub>20</sub> 130 <sub>21</sub> 140 <sub>22</sub> 160 <sub>23</sub>	→ 2.14 339.163 AC12 R 		R	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
1738 GEBEDUR	2	60 <sub>8</sub> 65 <sub>9</sub> 70 <sub>10</sub> 75 <sub>11</sub> 80 <sub>12</sub> 90 <sub>14</sub> 100 <sub>16</sub> 110 <sub>18</sub>	339.163 AD01 R 		R	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257



GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
1738 GEBEDUR	2	120 19 125 20 130 21 140 22 160 23	→ 2.14 339.163 AD12 R 	+	R	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
1738 RS	1	60 8 65 9 70 10 75 11 80 12 90 14	339.163 AC01 RS 	+	RS/SPI	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
1738 FFG	1	120 19	→ 2.18 339.200 AC01 RS 	+	RS/SPI	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
1738 FFG	1	55 7 60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.163 AC01 FFG 	+	FFG/SES	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
1738 FFG	1	120 19 125 20 130 21 140 22	→ 2.19 339.200 AC01 FFG 	+	FFG/SES	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
1738 FFG	1	120 19 130 21 140 22	→ 2.14 339.163 AC12 FFG 	+	FFG/SES	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
1738 FFG GEBEDUR	2	60 8 65 9 70 10 75 11 80 12 90 14 100 16	339.163 AD01 FFG 	+	FFG/SES	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
1738 FG	1	55 7 60 8 65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.163 AC01 FG 	+	FG/SUK	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
1738 FG	1	120 19 125 20 130 21 140 22	→ 2.19 339.200 AC01 FG 	+	FG/SUK	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
1738 FG GEBEDUR	2	65 9 70 10 75 11 80 12	339.163 AD01 FG 	+	FG/SUK	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
1738 ER	9	70 10	339.163 AC01 R ER 	+	R ER	1738 ER, DB x P3
1738 SD	3	65 9 70 10 75 11 80 12 90 14 100 16	339.163 AC01 SD 	+	SD/TRIFACET	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257

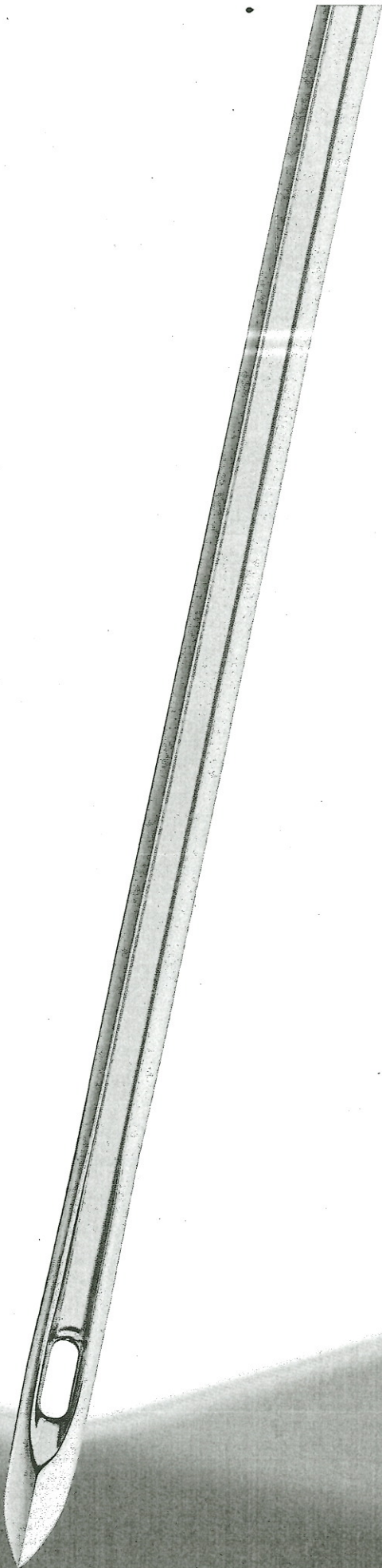


GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
8169	6	160 23	389.200 AC08 R 		R 	8169
UY 128 GAS	7	60 65 70 75 80 85 024 025 027 029 032 034 90 100 110 120 125 130 036 040 044 048 049 052 140 150 160 170 054 060 063 067	389.200 BC01 RG 		RG 	UY 128 GAS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 GAS GEBEDUR	9	60 65 70 75 80 90 024 025 027 029 032 036 100 110 125 140 040 044 049 054	389.200 BD01 RG 		RG 	UY 128 GAS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 TAS	7	80 90 100 110 125 140 032 036 040 044 049 054	389.200 BK01 RG 		RG 	UY 128 TAS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 GAS R	7	75 90 100 029 036 040	389.200 BC01 R 		R 	UY 128 GAS, 1280, MY 1044, 149 x 3, 149 x 31, TV x 3
UY 128 GBS	7	60 65 70 75 80 85 024 025 027 029 032 034 90 100 110 125 140 150 036 040 044 049 054 060	389.200 BC01 FFG 		FFG/SES 	UY 128 GBS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 GBS GEBEDUR	9	60 65 70 75 024 025 027 029	389.200 BD01 FFG 		FFG/SES 	UY 128 GBS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 TBS	7	80 90 100 032 036 040	389.200 BK01 FFG 		FFG/SES 	UY 128 TBS, 1280, 149 x 3, 149 x 31, TV x 3
UY 128 GBS FG	7	70 80 90 100 027 032 036 040	389.200 BC01 FG 		FG/SUK 	UY 128 GBS, 1280, 149 x 3, 149 x 31, TV x 3
UY 929 GS	8	125 150 049 060	389.200 BC01 QR 		QR 	UY 929 GS
UY 128 GHS	7	70 75 80 90 100 110 027 029 032 036 040 044 125 140 049 054	389.200 BC02 FFG 		FFG/SES 	UY 128 GHS
UY 128 GLS	7	90 100 110 125 140 036 040 044 049 054	389.200 BC04 FFG 		FFG/SES 	UY 128 GLS, U0 x 128 L

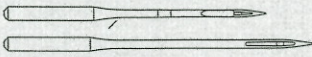

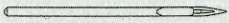

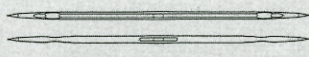
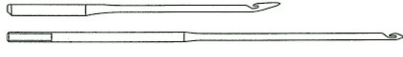
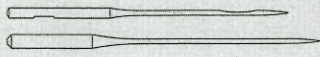
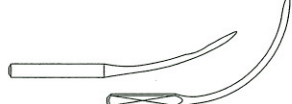
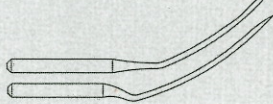

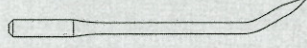




GB System GB System	PK PC	Nadeldicken Needle Sizes	Katalogbezeichnung und Abbildung (1:1) Catalogue Designation and Illustration (1:1)	Kolben Shank	Spitze Point	Nadelsysteme Needle Systems
UY 128 TLS	7	100 040   110 044   140 054	389.200 BK04 FFG 	+	FFG/SES	UY 128 TLS, UO x 128 L
UY 128 GS	7	80 032   90 036   100 040   110 044   125 049   140 054	389.200 BC05 RG 	+	RG	UY 128 GS
UY 128 TS	7	125 049	389.200 BK05 RG 	+	RG	UY 128 TS
1280 KSP	4	60 024   65 025   70 027   75 029   80 032   90 036	389.200 BC06 RG 	+	RG	1280 KSP, UY 121 GKS
	4	125 049   140 054	389.200 BC06 RG 	+	RG	1280 KSP, UY 121 GS, UY 121 GKS, 62 x 21, MY 1001, UY x 121
1280 KSP GEBEDUR	7	60 024   65 025   70 027   75 029   80 032	389.200 BD06 RG 	+	RG	1280 KSP, UY 121 GKS
1280 KSP FFG	4	55 022   60 024   65 025   70 027   75 029   80 032   90 036	389.200 BC06 FFG 	+	FFG/SES	1280 KSP, UY 121 GWS
1280 KSP FG	4	65 025   70 027   75 029   80 032	389.200 BC06 FG 	+	FG/SUK	1280 KSP, UY 121 GUS, UY x 121 GUS
4463 - 35	7	70 10   80 12   90 14   100 16   110 18   120 19	389.200 BC07 RG 	+	RG	4463 - 35, UO x 4463 LG
4463 - 35 R	7	70 10	389.200 BC07 R 	+	R	4463 - 35, UO x 4463 LG
4463 - 35 SD	9	90 14   100 16   120 19	389.200 BC07 SD 	+	SD/TRI FACET	4463 - 35, UO x 4463 LG
62 x 43	7	65 9   75 11   80 12   85 13   90 14   100 16   110 18	389.200 BC09 RG 	+	RG	62 x 43, DV x 43



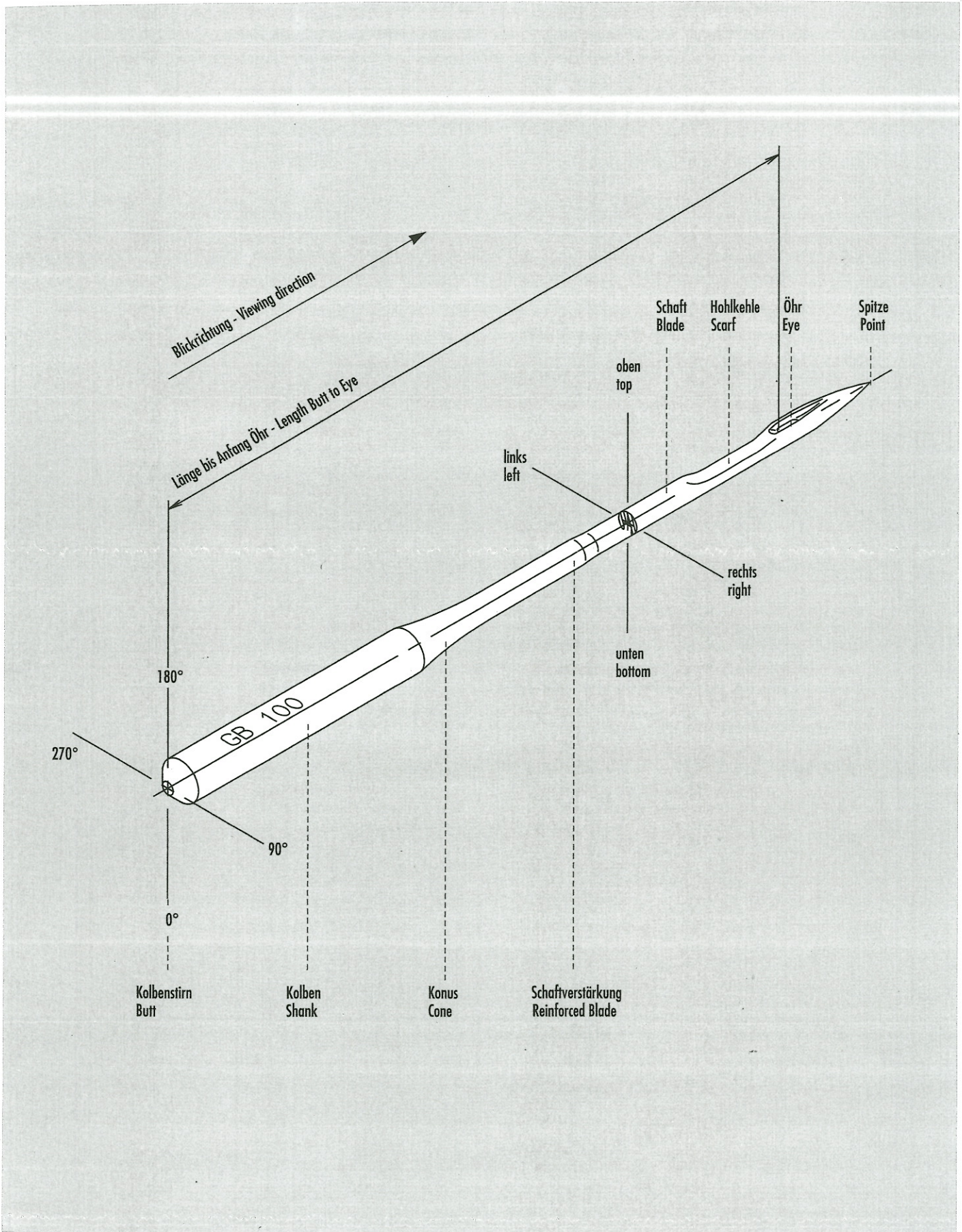




Nadelform Needle style	Formtyp Style type	Beschreibung Description
	<b>A</b>	gerade, mit einer langen Rinne straight, one groove
	<b>B</b>	gerade, mit zwei langen Rinnen straight, double groove
	<b>C</b>	wie A, ohne Kolben like A, without shank
	<b>D</b>	wie B, ohne Kolben like B, without shank
	<b>E</b>	mit zwei Spitzen double pointed
	<b>F</b>	mit Haken with hook
	<b>H</b>	ohne Öhr without eye
	<b>M</b>	gebogen curved blade, overlock
	<b>N</b>	wie M und zusätzlich im Radius abgeknickt curved blade, blindstitch
	<b>Q</b>	durchgehend gebogen fully curved
	<b>R</b>	abgeknickt angled
	<b>S</b>	wie N und zusätzlich seitlich abgeknickt like Style N, blade bent sidewise
	<b>T</b>	quer zur Rinne gebogen blade curved sidewise









**GEGENÜBERSTELLUNG VON SPITZENBEZEICHNUNGEN  
COMPARISON OF POINT DESIGNATIONS**




































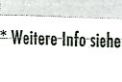

GROZ-BECKERT®

Bezeichnung Designation	Groz-Beckert Bezeichnung Groz-Beckert Reference
B BALL	FG
BIL	G
BPH	G
BPL	FFG
BPM	FG
CR	S
D	D
DI	DI
DIA	DI
DH	DH
DU	DU
EH	RG
EK	RS EK
EL	RS EL
EM	RS EM
EO	RS EK
ER	RS ER
EU	RS EM
EX H BALL	G
FFG	FFG
FFG EM	FFG EM
FG	FG
G	G
H BALL	G
H SET	RG
HB	G
J BALL	FFG
L BALL	FFG
LAC	FG
LF ECC SET	RS EL
LG G ECC SET	RS EM
LL	LL
LR	LR
M BALL	FG
N R TW	LR

Bezeichnung Designation	Groz-Beckert Bezeichnung Groz-Beckert Reference
NEW RD	RG
NW	P
NWLT	PCL
NWRT	PCR
NYR	FFG
P	P
PCL	PCL
PCR	PCR
PS	P
Q	Q
QR	QR
R	R
R EL	R EL
R EM	R EM
R ERM	R ERM
R ER	R ER
R-SP	RS
R-SPI	RS
R-STU	RG
R-SUK	FG
R-TRI	SD
RD	R
RG	RG
RS	RS
RS EK	RS EK
RS ELK	RS ELK
RS EL	RS EL
RS ELM	RS ELM
RS EM	RS EM
RS ERM	RS ERM
RS ER	RS ER
RS ERK	RS ERK
RSP	S
RSQ	QR
RT ECC SET	RS ER

Bezeichnung Designation	Groz-Beckert Bezeichnung Groz-Beckert Reference
RTW	LR
RTWSP	VR
S	S
S BALL	RG
S SET	RS
SD	SD
SD I	SD
SES	FFG
SET	R
SET RT	RG
SH G ECC SET	RS EK
SI	FG
SIN	FFG
SKF	G
SKL	SKL
SP	P
SPI	RS
SQ	Q
STAY	STAY
STU	RG
STUB	RG
SUK	FG
TB	FFG
TR	TR
TRI	D
TRI FACET	SD
TRI TIP	SD
TW	LL
TW SP	LL
U BALL	G
V	P
VL	LL
VR	VR
W	P
Y BALL	G



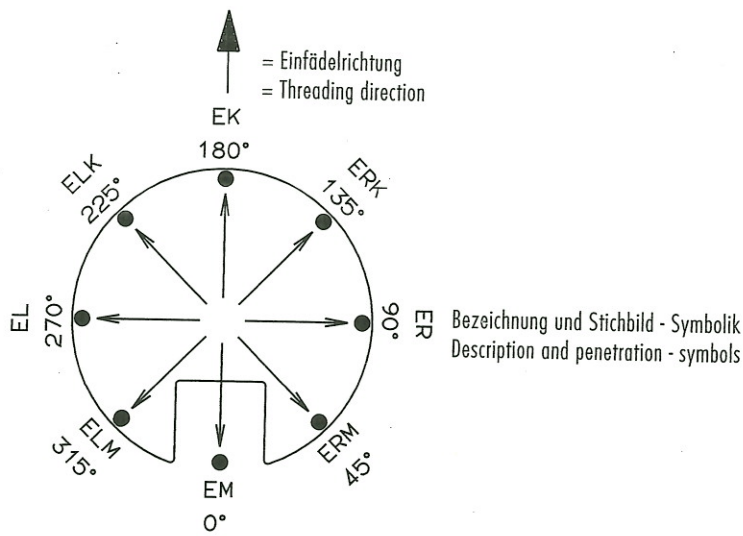
Profil Profile	Bezeichnung Designation	Symbol Symbol	Beschreibung Description	Anwendung Application
	<b>R</b>		Normale Rundspitze Regular round point	Universeller Einsatz für Steppstich (FST 301) und bei Geweben Universal application for LOCKSTITCH (FST 301) and woven cloth
	<b>RS/SPI</b>		Scharfe Rundspitze Sharp round point	Standard für Blindstich und für sehr gerade Steppnähte (empfindlich!) Standard for BLINDSTITCH. Also for very straight stitchlines (susceptible to damage)
	<b>RG</b>		Leicht gerundete Rundspitze Round point with slightly rounded tip	Universeller Einsatz für Kettenstich (FST 401), Maschenwaren und Knopfannähen Recommended application for CHAINSTITCH (FST 401) knitted fabrics and button sewing
	<b>FFG/SES</b>		Leichte Kugelspitze Light ball point	Für Maschenwaren allgemein und für synthetisches Nähgut For all kind of knitted and synthetic fabrics
	<b>FG/SUK</b>		Mittlere Kugelspitze Medium ball point	Für sehr elastisches Nähgut mit Gummi- oder Elastomeranteil For highly elasticated material with rubber or elastomeric content
	<b>G/SKF</b>		Schwere Kugelspitze Heavy ball point	Für gröberes hochelastisches und offenes Nähgut For coarser materials of high elasticity. Also for open-structured fabrics
	<b>SKL</b>		Sonderkugelspitze Special ball point	Für Lycra, Gewebe und Gestricke mit hohem Elastomeranteil Knitted and woven fabrics with high content of elastomerics (Lycra, Dorlastan, etc.)
	<b>SD</b>		Rundspitze mit kleiner Dreikant-Schneide Round point with a small triangular cutting edge at the tip	Für Folien und Bekleidungsleder For plastic foils, laminates and leather clothing
	<b>P</b>		Perlspitze Narrow Wegde (NW) point	Für enge Stichfolgen in Leder, Bestech- und Spannnähte For dense stitch formation in leather. Edge and cup seams on uppers
	<b>S</b>		Spatenspitze Narrow Cross (NCR) point	Für sehr gerade Nähte und große Stichlängen in Leder For long stitches deeply set and very straight stitch lines in leather
	<b>DI</b>		Diamantspitze Diamond (DIA) point	Für sehr gerade und tiefeingezogene Nähte in harten Ledern. Auch für Sacknähte For straight stitchlines in hard and dense leathers and for bag seams
	<b>LR</b>		Lederspitze rechtsschneidend 45° Narrow reverse twist (NRTW/RTW) point	Für schrägliegende Stichfolgen. Ziersticheffekt For slanted stitch appearance in leathers and ornamental seams
	<b>VR</b>		Vierschliffspitze rechts auf 45° Narrow reverse twist (NRTWSP/RTWSP) point	Wie LR, doch stärker schneidend Application similar to LR, but slightly stronger cutting effect
	<b>LL</b>		Lederspitze linksschneidend 225° Narrow twist (NTW/TW) point	Für gerade Stichfolgen. Normale Verbindungsnahte in Leder Stitch appearance almost straight. For regular joining seams in leather
	<b>D</b>		Dreikantspitze Triangular (TRI) point	Für harte, feste Leder. Fast gerade Stichfolge Stitch appearance almost straight. For hard and dense leathers
	<b>DU</b>		Umgekehrte Dreikantspitze Reverse triangular (RTRI) point	Für 2-Nadel-Maschinen (linke Nadel) und Quergreifer-Maschinen For twin needle machines (left needle) to match the seam of the right needle (D)
	<b>Q</b>		Quadratspitze 45° Schneidenlage Square (SQ) point	Für hartes, festes Nähgut. Sacknähte For heavy, hard and homogeneous materials. Bag seams
	<b>QR</b>		Quadratspitze 0° Schneidenlage Reverse square (RSQ) point	Anwendung wie Q Application similar to Q
	<b>STAY</b>		Abgeflachte Rundspitze Flattened round (STAY) point	Anwendung wie Q. Auch für Knopflöcher in Bekleidungsledern Application similar to Q. Also for buttonholes in leather clothing

\* Weitere Info siehe Seite 3.08/Further info see page 3.08



**LAGE UND BEZEICHNUNG VON EXZENTRISCHEN SPITZEN**  
**POSITION AND DESCRIPTION OF ECCENTRIC POINTS**

GROZ-BECKERT®

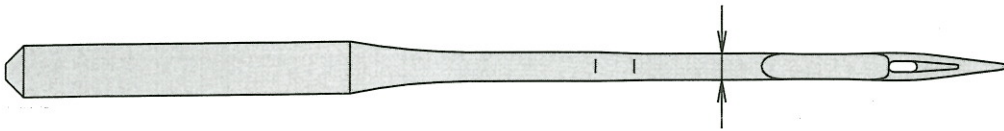


<b>EM</b>		0°	Exzentrisch zur langen Rinne (Nadelunterseite)	Eccentric long groove (Down-side of needle)
<b>ERM</b>		45°	Exzentrisch rechts der langen Rinne	Eccentric right of long groove
<b>ER</b>		90°	Exzentrisch zur rechten Seite	Eccentric right
<b>ERK</b>		135°	Exzentrisch rechts der kurzen Rinne	Eccentric right of short groove
<b>EK</b>		180°	Exzentrisch zur kurzen Rinne (Nadeloberseite)	Eccentric towards short groove (Up-side of needle)
<b>ELK</b>		225°	Exzentrisch links der kurzen Rinne	Eccentric left of short groove
<b>EL</b>		270°	Exzentrisch zur linken Seite	Eccentric left
<b>ELM</b>		315°	Exzentrisch links der langen Rinne	Eccentric left of long groove

Der Pfeil im Symbol kennzeichnet die Einfädelrichtung  
 The arrow in the symbol indicates the threading direction

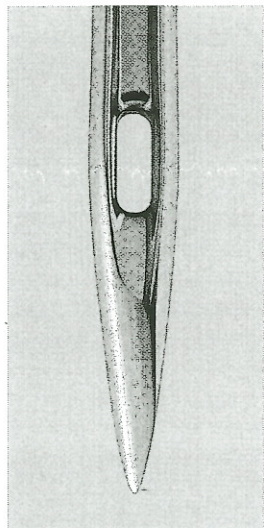
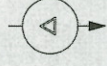
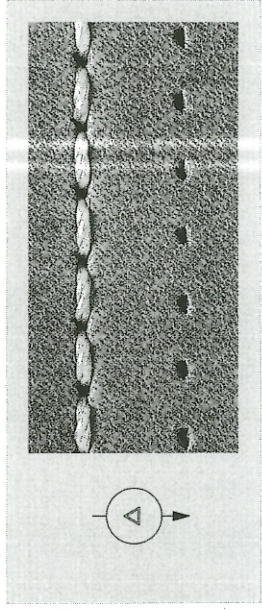
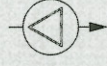
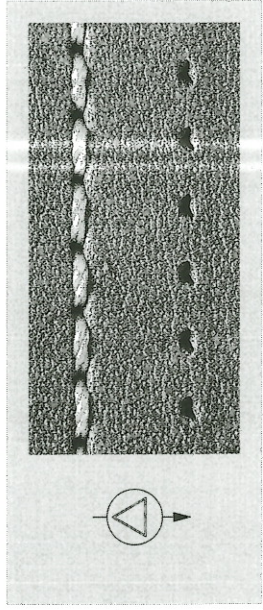
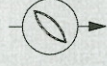
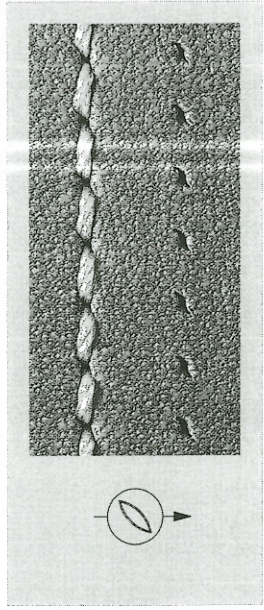
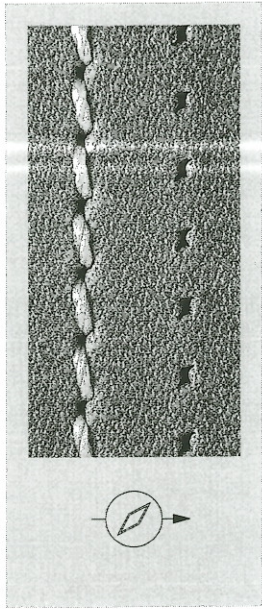
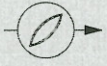
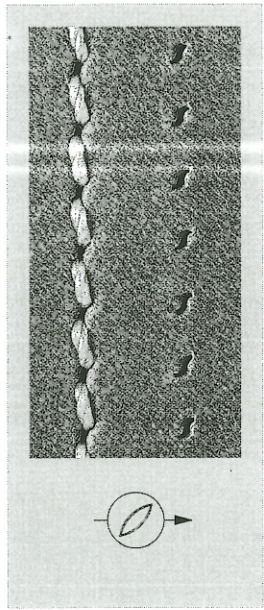


mm x 100 = Nm

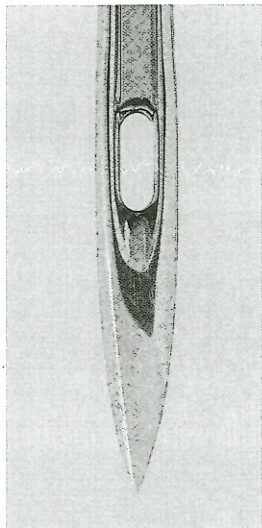


Nm	36	38	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	125	130	140	150	160	170	180	190	200	230	250	280	300	330	350	380	
Organ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22		23	24		25	26	27	28	29	30	31	32		
Singer			3	4	5	6	8	9	10	11	12	13	14	15	16	18	19	20	21	22		23	24		25	26	27	28	29	30	31	32		
Singer MR											MR1	MR2				MR3	MR4			MR5	MR6	MR7												
Singer Delta-U							50	55	60	65	70	75	80		90	100	110		120	130	140	150												
Union-Special				018	020	022		025	027	029	032		036		040	044	048	049		054	060		067	073		080	090	100		120		140		
Reece USA									4/0	3/0	2/0		0		1	2	3		4	5		6	7											
Reece (Code)									400	000	100		110		111	112	113		114	115														
U.S. Blindstitch								0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2		5	5 1/2	6													
U.S. Blindst. LG (long)							00	5	10	15	20	25	30	35	40																			
Lewis C						2		2 1/2	3		3 1/2	4	4 1/2	5		5 1/2	6		7															
Lewis S								10	12	14		16	18	19	20																			
Wilcox & Gibbs (old)						2/0	0	1	2	3		4	5	6		7	8	9	10															
Wilcox & Gibbs (new)				20	22	24	25	27	30	32	33	36	38	40	44	48	49	52	55	60														
Schiffli 110 S, 854 S							2/0	0		1		2	3		4	5	6	7	8															
Bonis A			21	20	19	18	16	15	14	13	12	11	10	9	8	6	5	4	3	2	1	0												
Bonis B			21	20	19	18	17	16	15	14	13		12		11	10	9	8	7	6														
Fischbein																										5		7						
Howe (490)								000	00	0		1	2	3		4																		
System 81,88								2/0	0	1		2	3	4		5	6		7		8	9												
System 253						2/0	1	2	3		4	5	6		7	8		10																
System 292			22	21	20	18	16	14	13	12	11	10	9	8	7	6	4		3	2	1	0												
System 332							2/0	0		1/2	1	2	3		4	5	6		7		8	9	10											
System 459 R	23	22	21	20	19	18	17	16	15	14	13		12		11	10	9		8	7	6													
System 505 LG																			1	2	3	4	5	6		7	8							
System 604 FE									00	0		1	2	3		4	5	6																
Nm	36	38	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	125	130	140	150	160	170	180	190	200	230	250	280	300	330	350	380	

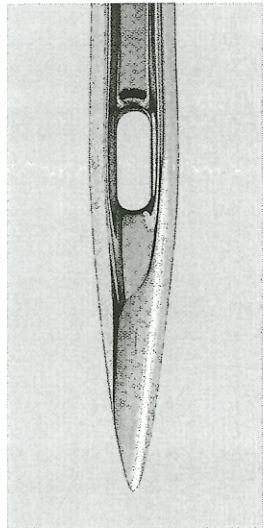




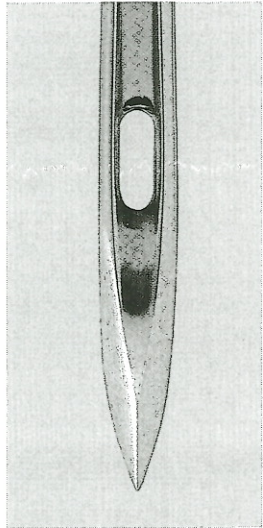
**LR/RTW**



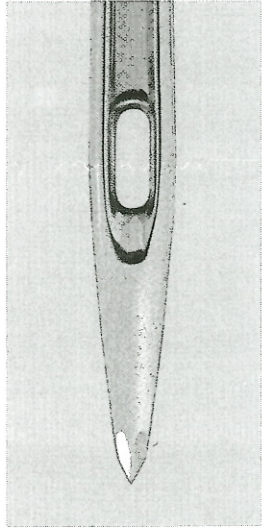
**VR/RTWSP**



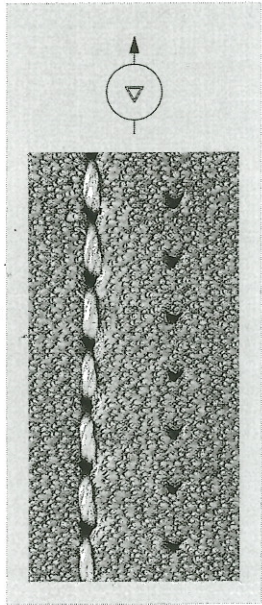
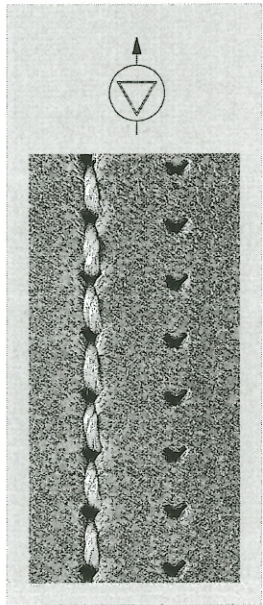
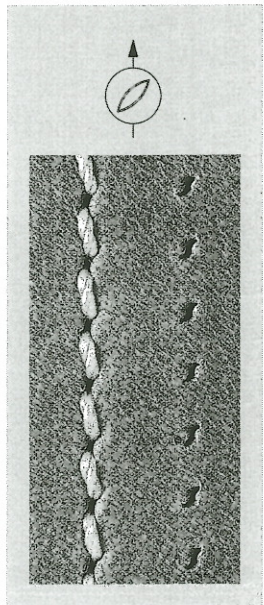
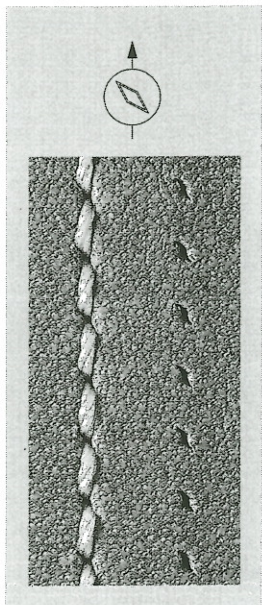
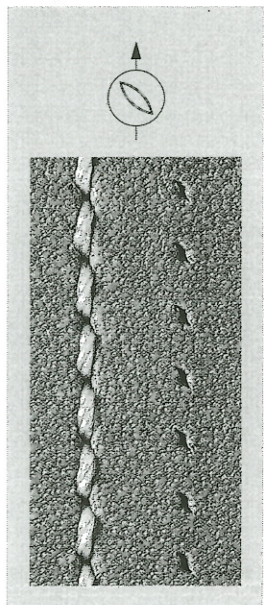
**LL/TW**



**D/TRI**



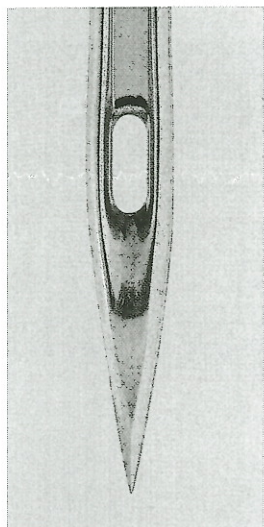
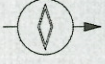
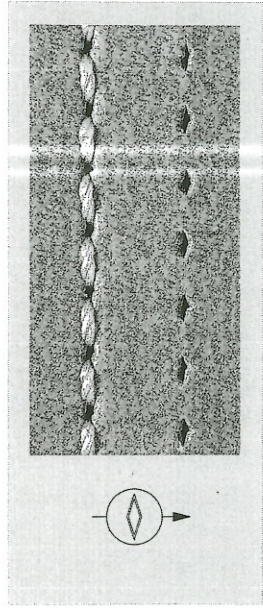
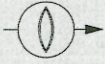
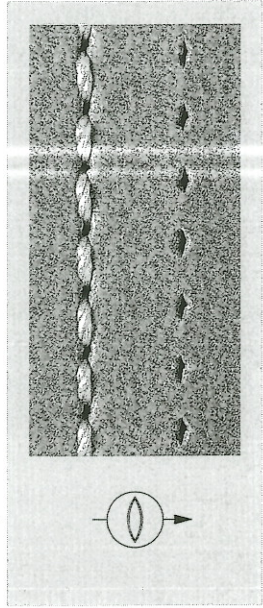
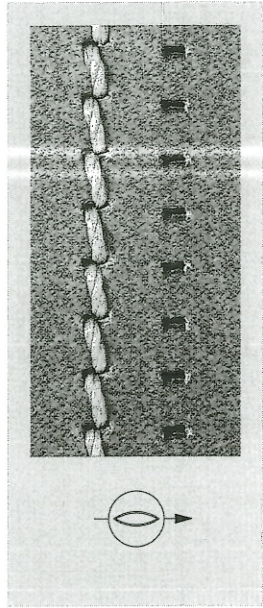
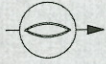
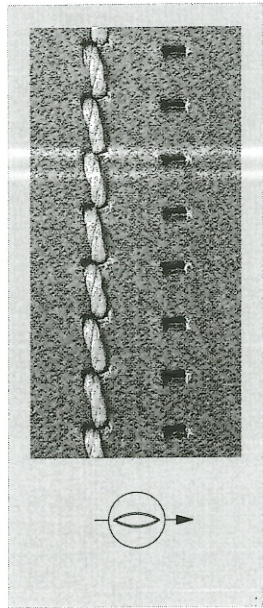
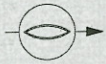
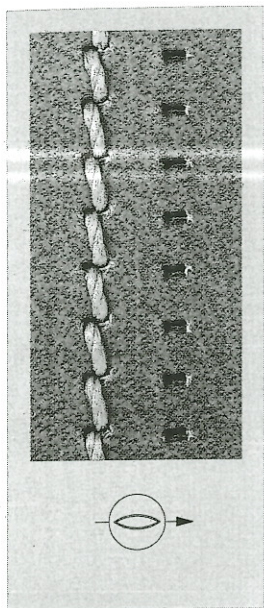
**SD/TRI FACET**



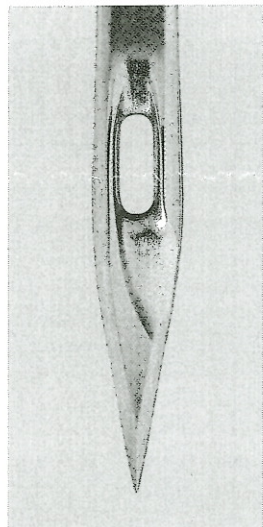
○ Einfädelrichtung von links / Needle threading left to right

○ Einfädelrichtung von vorne / Needle threading front to back

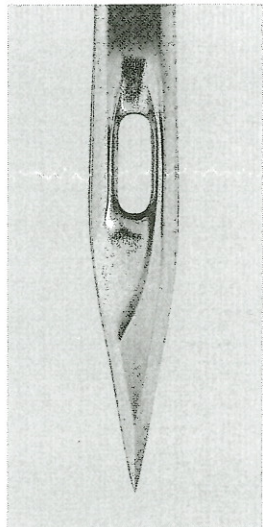




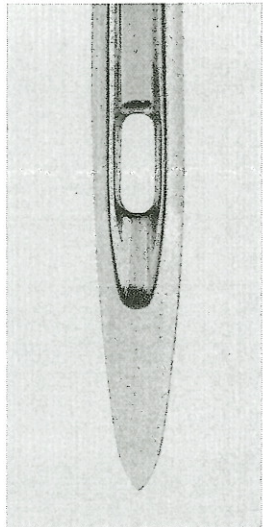
P/NW/W



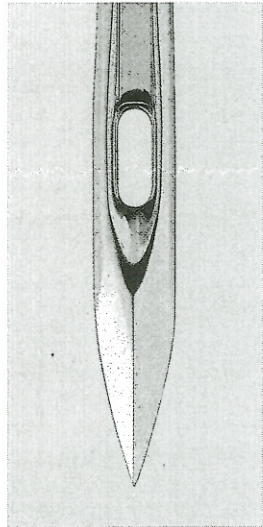
PCL/NWLT



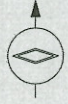
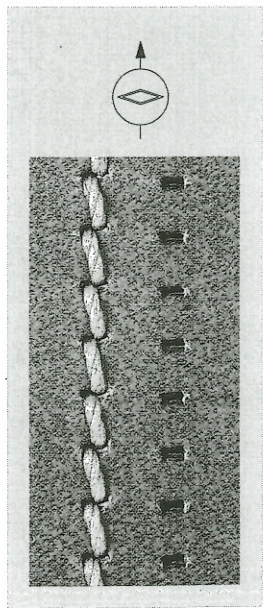
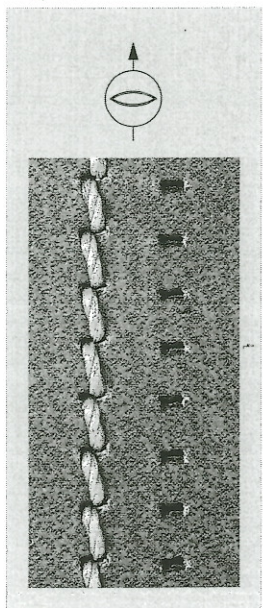
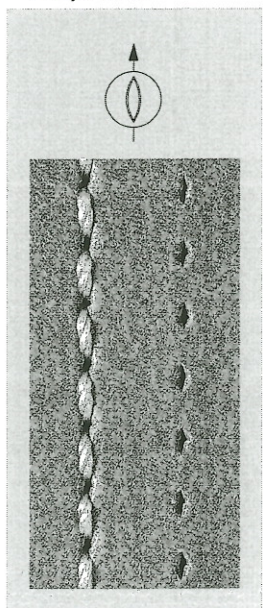
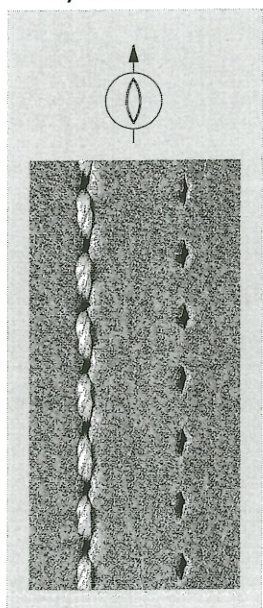
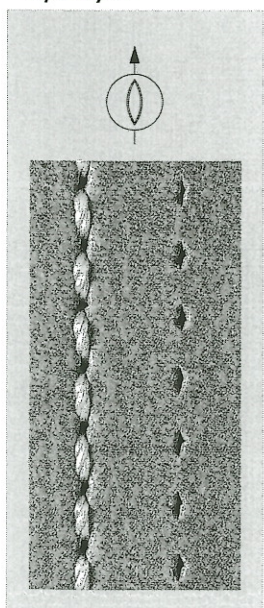
PCR/NWRT



S/CR



DI/DIA



○ Einfädelrichtung von links / Needle threading left to right

○ Einfädelrichtung von vorne / Needle threading front to back



**EMPFEHLUNGSTABELLE: NADELICKE - NÄHFADENSTÄRKE**  
**RECOMMENDATION: NEEDLE SIZES-THREAD SIZES**

GROZ-BECKERT®

Nadelicke Nähgut: leicht-schwer	Baumwolle Cotton	Polyester Faser Polyester spun	Polyester Endlos Polyester filament	Polyamid Endlos Polyamid filament	Polyamid Mono		Umspinnungs- Zwirn Baumwolle- Polyester Core spun cotton- polyester	Umspinnungs- Zwirn Poly-Poly Core spun poly-poly	Seide Silk	Stickgarne (Etikett)	
					Nm	den				Baumwolle	Kunstseide
Needle size Fabric: light-heavy	Ne <sub>B</sub> (Nr.)	Nm	Nm	Nm	Nm	den	Nm	Nm	Nm	Embroidery yarn (Ticket) Cotton	Rayon
Nm	Ne <sub>B</sub> (Nr.)	Nm	Nm	Nm	Nm	den	Nm	Nm	Nm	Nr.	Nr.
40-50			360/240						200		
50-60			200						160		
55-65			150					150	140	80	
60-70	80	120	120		180	50	120	120	130	60	
65-75	70	120	80	100	110	80	100	100	120	50	
70-80	60	100	70	80	80	110	80		100	40	75
75-90	50	80	60	60	70	130	75	80		30	
80-100	40	70	50	50	60	150	50		70		60
90-110	30	60	40		50	180	40		60	20	
100-120	24	50	30	40	40	230	35		50	16	
110-130	20	40	20		30	300	30		40	12	
120-140	12	30	18/3	30	20	450	25		30		
130-160	7	20	15/3	20			20				
150-180		15	11/3				15		20		
160-200		10	11/4				11		10		
200-230							8				
230-250							5				

Nm = Nummer metrisch / Metric number

Ne<sub>B</sub> = Nummer englische Baumwolle / English cotton number

den = denier

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