



GROZ-BECKERT®

AGUJAS PARA MÁQUINAS DE COSER
AGULHAS PARA MÁQUINAS DE COSTURA

sewing

GROZ-BECKERT KG

P.O. Box 10 02 49

72423 Albstadt, Germany

Phone +49 74 31 10-0

Fax +49 74 31 10-32 00/27 77

E-Mail: s-vn@groz-beckert.com

www.groz-beckert.com

GROZ-BECKERT®

LISTA DE SISTEMAS



Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
Bonis H	Bonis H	7	2.05	16 x 2 NCR ≤ 110	34 S	3	2.13
DAVIS LOOPER 90-120	604 FE	25	2.56	16 x 2 NCR ≥ 120	134 S	4	2.21
DAVIS LOOPER 130+150	604 FE	25	2.61	16 x 2 NW ≤ 110	34 P	3	2.13
DAVIS LOOPER 160	604 FE	25	2.62	16 x 2 NW ≥ 120	134 P	4	2.21
Myers No 2	Myers No 2	14	2.47	16 x 2 RTW ≤ 110	34 LR	3	2.13
Myers No 5	Myers No 5	14	2.38	16 x 2 RTW ≥ 120	134 LR	4	2.20
Myers No 6	Myers No 6	17	2.38	16 x 2 RTWSP ≥ 120	134 VR	4	2.21
Myers No 8	Myers No 8	17	2.54	16 x 2 TRI ≤ 110	34 D	3	2.12
SOABAR 64	64	13	2.02	16 x 2 TRI ≥ 120	134 D	4	2.19
STITCHDOWN 1 E	STITCHDOWN 1 E	15	2.48	16 x 2 TRI TIP ≥ 120	134 SD	3	2.19
D - 5	FD 5	14	2.45	16 x 2 TW ≤ 110	34 LL	3	2.13
FD 5	FD 5	14	2.45	16 x 2 TW ≥ 120	134 LL	4	2.20
FD 5 FR	FD 5 FR	16	2.45	16 x 3 ≤ 110	34 CL	3	2.15
7 x 1	794 H	12	2.63	16 x 4 ≤ 110	34 PCL	3	2.14
7 x 2 TRI	794 D	15	2.64	16 x 4 ≥ 120	134 PCL	4	2.24
7 x 3	794 H	12	2.63	16 x 4 NW ≤ 110	34 PCL	3	2.14
7 x 3 FL	794 H FL	20	2.64	16 x 4 NW ≥ 120	134 PCL	4	2.24
7 x 3 KF	7 x 3 KF	20	2.64	16 x 4 SD	16 x 246 SD	5	2.13
7 x 3 KSP FL	7 x 3 KF	20	2.64	16 x 6 ≤ 110	16 x 6	3	2.14
7 x 4 RTW	794 LR	15	2.63	16 x 6 ≥ 120	134 PCR	4	2.23
7 x 6 TRI	794 D	15	2.64	16 x 6 NW ≤ 110	16 x 6	3	2.14
7 x S14	7 x 23	14	2.61	16 x 6 NW ≥ 120	134 PCR	4	2.23
7 x S14 FFG	7 x 23 FFG	14	2.61	16 x 8 ≤ 110	34 PCL	3	2.14
7 x 21	7 x 23	14	2.61	16 x 16 NW ≤ 110	34 PCL	3	2.14
7 x 21 FFG	7 x 23 FFG	14	2.61	16 x 16 NW ≥ 120	134 PCL	4	2.24
7 x 23	7 x 23	14	2.61	16 x 21 ≤ 110	34	1	2.12
7 x 23 FFG	7 x 23 FFG	14	2.61	16 x 21 ≥ 120	287	1	2.11
7 x 33	7 x 3 KF	20	2.64	16 x 22 TRI ≤ 110	34 D	3	2.12
12 - 500	12 - 500	7	2.29	16 x 26 NW	16 x 26 NW	5	2.15
12 - 662	12 - 690	22	2.29	16 x 63	16 x 63 H	5	2.48
12 - 690	12 - 690	22	2.29	16 x 63 H	16 x 63 H	5	2.48
12 - 691	12 - 690	22	2.29	16 x 73 ≤ 110	34	1	2.12
14 SP	14 SP	8	2.50	16 x 73 ≥ 120	134	1	2.18
16 x 1 ≤ 110	34	1	2.12	16 x 73 FFG ≤ 110	34 FFG	1	2.12
16 x 1 ≥ 120	134	1	2.18	16 x 73 FFG ≥ 120	134 FFG	1	2.18
16 x 1 FFG ≤ 110	34 FFG	1	2.12	16 x 73 FG ≤ 110	34 FG	1	2.12
16 x 1 FFG ≥ 120	134 FFG	1	2.18	16 x 73 FG ≥ 120	134 FG	1	2.19
16 x 1 FG ≤ 110	34 FG	1	2.12	16 x 74 NW ≤ 110	34 P	3	2.13
16 x 1 FG ≥ 120	134 FG	1	2.19	16 x 74 NW ≥ 120	134 P	4	2.21
16 x 1 H ≤ 110	34	1	2.12	16 x 74 TW ≤ 110	34 LL	3	2.13
16 x 1 H ≥ 120	134	1	2.18	16 x 74 TW ≥ 120	134 LL	4	2.20
16 x 1 H FFG ≤ 110	34 FFG	1	2.12	16 x 85 ≤ 110	34	1	2.12
16 x 1 H FFG ≥ 120	134 FFG	1	2.18	16 x 85 ≥ 120	71 x 1	1	2.14
16 x 1 H FG ≤ 110	34 FG	1	2.12	16 x 87 ≤ 110	1738	1	2.09
16 x 1 H FG ≥ 120	134 FG	1	2.19	16 x 87 ≥ 120	134	1	2.18
16 x 1 RO TRI TIP ≥ 120	134 SD	3	2.19	16 x 87 FFG ≤ 110	1738 FFG	1	2.10
16 x 2 DIA ≥ 120	134 DI	4	2.20	16 x 87 FFG ≥ 120	134 FFG	1	2.18
16 x 2 H TRI ≤ 110	34 D	3	2.12	16 x 87 FG ≤ 110	1738 FG	1	2.10
16 x 2 H TRI ≥ 120	134 D	4	2.19	16 x 87 FG ≥ 120	134 FG	1	2.19

Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.	Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.
Sistemas das agulhas		Sistema GB	GP	Página	Sistemas das agulhas		Sistema GB	GP	Página
16 x 87 RS	≤ 110	1738 RS	1	2.10	16 x 521	≤ 110	1738	1	2.09
16 x 87 RS	≥ 120	134 RS	1	2.18	20 x 1		805	9	2.38
16 x 95	≤ 110	1738	1	2.09	022		332	2	2.40
16 x 95	≥ 120	71 x 1	1	2.14	022 LL		332 LL	5	2.40
16 x 95 FFG	≤ 110	1738 FFG	1	2.10	022 LR		332 LR	5	2.40
16 x 95 FFG	≥ 120	71 x 1 FFG	1	2.14	24 x 1		24 x 1	10	2.01
16 x 95 FG	≤ 110	1738 FG	1	2.10	25		29 BD	17	2.29
16 x 107		16 x 63 H	5	2.48	B 26		B 26	5	2.02
16 x 113		16 x 63 H	5	2.48	B 26 FG		B 26 FG	5	2.02
16 x 113 H		16 x 63 H	5	2.48	B 27		B 27	4	2.02
16 x 226 TRI	≤ 110	34 D	3	2.12	B 27 GEBEDUR		B 27	7	2.02
16 x 230 DIA	≥ 120	134 DI	4	2.20	B 27 B FFG		B 27 FFG	4	2.02
16 x 230 NW	≥ 120	134 P	4	2.21	B 27 B FG		B 27 FG	4	2.02
16 x 230 RTW	≤ 110	1738 LR	4	2.11	B 27 B RS		B 27 RS	4	2.02
16 x 230 RTW	≥ 120	134 LR	4	2.20	B 27 FFG		B 27 FFG	4	2.02
16 x 230 TRI	≥ 120	134 D	4	2.19	B 27 FFG GEBEDUR		B 27 FFG	7	2.02
16 x 230 TW	≥ 120	134 LL	4	2.20	B 27 FG		B 27 FG	4	2.02
16 x 231	≤ 110	1738	1	2.09	B 27 FM - B		B 27 FM - B	14	2.03
16 x 231	≥ 120	134	1	2.18	B 27 P		B 27 P	4	2.03
16 x 231 FFG	≤ 110	1738 FFG	1	2.10	B 27 R		B 27 R	4	2.02
16 x 231 FFG	≥ 120	134 FFG	1	2.18	B 27 RS		B 27 RS	4	2.02
16 x 231 FG	≤ 110	1738 FG	1	2.10	B 27 SAN 10		B 27 SAN 10	5	2.04
16 x 231 FG	≥ 120	134 FG	1	2.19	B 27 SKL		B 27 SKL	4	2.02
16 x 231 RS	≤ 110	1738 RS	1	2.10	29 BA		29 BA	17	2.29
16 x 231 RS	≥ 120	134 RS	1	2.18	29 BB		29 BB	22	2.34
16 x 231 SD	≤ 110	1738 SD	3	2.10	29 BC		29 BD	17	2.29
16 x 231 SD	≥ 120	134 SD	3	2.19	29 BD		29 BD	17	2.29
16 x 246	≤ 110	34 PCL	3	2.14	29 BD SAN 1		29 BD SAN 1	17	2.30
16 x 246 NW	≤ 110	34 PCL	3	2.14	29 BJ		29 BK	19	2.29
16 x 246 SD		16 x 246 SD	5	2.13	29 BK		29 BK	19	2.29
16 x 257	≤ 110	1738	1	2.09	29 BL		29 BL	19	2.48
16 x 257	≥ 120	134	1	2.18	29 BL FFG		29 BL FFG	19	2.48
16 x 257 FFG	≤ 110	1738 FFG	1	2.10	29 BLV		29 BLV	22	2.48
16 x 257 FFG	≥ 120	134 FFG	1	2.18	29 BNL		251 EL	17	2.48
16 x 257 FG	≤ 110	1738 FG	1	2.10	29 BNL FFG		251 EL FFG	17	2.48
16 x 257 FG	≥ 120	134 FG	1	2.19	29 BNS		251	17	2.47
16 x 257 LR	≤ 110	1738 LR	4	2.11	29 CA		251	17	2.47
16 x 257 LR	≥ 120	134 LR	4	2.20	29 CB		251 EL	17	2.48
16 x 257 RS	≤ 110	1738 RS	1	2.10	29 CB FFG		251 EL FFG	17	2.48
16 x 257 RS	≥ 120	134 RS	1	2.18	29 DEA		150	7	2.28
16 x 257 SD	≤ 110	1738 SD	3	2.10	29 ELS		29 ELS	6	2.57
16 x 257 SD	≥ 120	134 SD	3	2.19	29 L		2091	3	2.54
16 x 269	≤ 110	34	1	2.12	29 L FFG		2091	3	2.54
16 x 269	≥ 120	134	1	2.18	29 L FG		2091	3	2.54
16 x 270 NW	≥ 150	134 PCR	4	2.24	29 LES		2091 KK	5	2.54
16 x 274	≤ 110	34 PCL	3	2.14	29 LSS	≤ 125	29 LSS	3	2.54
16 x 274 NW	≥ 150	134 PCL	4	2.24	29 LSS	≥ 130	2091	3	2.53
16 x 281 RO TRI TIP		16 x 246 SD	5	2.13	29 LSS FFG		2091	3	2.53
16 x 506 NW	≥ 150	134 PCR	4	2.24	29 LSS FG		2091	3	2.53

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
29 S	1985	2	2.34	34 D	≥ 150	134 D	4
29 S FFG	1985	2	2.34	34 FFG	≤ 110	34 FFG	1
29 S FG	1985	2	2.35	34 FFG	120-140	34 FFG	1
29 S R	1985 R	2	2.34	34 FG		34 FG	1
B 29	B 29	6	2.03	34 LL	≤ 110	34 LL	3
B 29 A	B 29	6	2.03	34 LL	120-140	34 LL	3
B 29 A FFG	B 29 FFG	6	2.03	34 LL	≥ 150	134 LL	4
B 29 A FG	B 29 FG	6	2.03	34 LR	≤ 110	34 LR	3
B 29 FFG	B 29 FFG	6	2.03	34 LR	120-140	34 LR	3
B 29 FG	B 29 FG	6	2.03	34 LR	≥ 150	134 LR	4
B 29 P	B 29 P	6	2.03	34 P	≤ 110	34 P	3
TLM 29	STITCHDOWN 1 E	15	2.48	34 P	≥ 150	134 P	4
29 - 3	29 BA	17	2.29	34 PCL	≤ 110	34 PCL	3
29 x 3	332	2	2.40	34 PCL	≥ 150	134 PCL	4
29 x 3 LG	332 LG	3	2.55	34 PCR	≤ 110	16 x 6	3
29 x 4 NTW	332 LL	5	2.40	34 PCR	120-140	34 PCR	3
29 x 4 RTW	332 LR	5	2.40	34 PCR	≥ 150	134 PCR	4
29 x 4 TW	332 LL	5	2.40	34 PS	≤ 110	34 P	3
29 - 6	29 BB	22	2.34	34 PS	≥ 150	134 P	4
29 - 12	29 BD	17	2.29	34 S	≤ 110	34 S	3
29 - 13	29 BD	17	2.29	34 S	120-140	34 S	3
29 - 20	29 BL	19	2.48	34 S	≥ 150	134 S	4
29 - 20 FFG	29 BL FFG	19	2.48	35.19		FD 5	14
29 - 34	29 BL	19	2.48	43 - 0100		251 FFG	17
29 - 34 FFG	29 BL FFG	19	2.48	44 x 1	≤ 110	34	1
29 - 35	29 BL	19	2.48	44 x 3		1128	1
29 - 35 FFG	29 BL FFG	19	2.48	44 x 3 FFG		1128 FFG	1
29 - 38	29 BK	19	2.29	44 x 3 FG		1128 FG	1
29 - 39	29 BK	19	2.29	46 x 1		46 x 1	6
29 - 49	29 BL	19	2.48	48.50		490 F	9
29 - 49 FFG	29 BL FFG	19	2.48	48.51		490	3
29 - 63	29 BB	22	2.34	48.59 F LG		2331 F LG	10
29 - 64	29 BB	22	2.34	60 A		151 x 9	22
29 - C - 150	150	7	2.28	60 M		151 x 7	17
29 - C - 300	251	17	2.47	60 M FFG		151 x 7 FFG	17
29 - C - 300 LG	251 EL	17	2.48	60 M FG		151 x 7 FG	17
29 - C - 300 LG FFG	251 EL FFG	17	2.48	60 MA		151 x 9	22
29 - 383	29 BK	19	2.29	60 MH		151 x 7	17
29 C 440	1738	1	2.09	60 MSD		151 x 7	17
31 x 1	31 x 1	4	2.34	60 MSD FFG		151 x 7 FFG	17
34	34	1	2.12	60 MSD FG		151 x 7 FG	17
34 GEBEDUR	34	2	2.12	61 B		135 x 1	2
34	120-140	1	2.16	61 B FFG		135 x 1 FFG	2
34	≥ 150	1	2.18	61 B FG		135 x 1 FG	2
34 GEBEDUR	134	2	2.18	62 x 1		UY 121 GS	4
34 CL	34 CL	3	2.15	62 x 21	≤ 110	UY 121 GS	4
34 CL SD	16 x 246 SD	5	2.13	62 x 21	≥ 120	1280 KSP	4
34 D	34 D	3	2.12	62 x 21 FFG		UY 121 GHS	4
34 D	120-140	3	2.17	62 x 33		62 x 57	8

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
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

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
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

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
88 H	88 H	3	2.55	UY 113 THS	UY 113 THS	8	2.32
88 HK	88 HK	5	2.55	UY 113 TS	UY 113 TS	8	2.32
88 L	88 LR	8	2.55	UY 113 TS FFG	UY 113 THS	8	2.32
88 LR	88 LR	8	2.55	114 SC	62 x 59	9	2.49
88 x 1	1128	1	2.05	UY 118 GAS	UY 118 GAS	9	2.30
88 x 1 FFG	1128 FFG	1	2.05	UY 118 GAS GEBEDUR	UY 118 GAS	12	2.30
88 x 1 FG	1128 FG	1	2.05	UY 118 GAS FFG	UY 118 GAS FFG	9	2.30
88 x 9	1128	1	2.05	UY 118 GAS FG	UY 118 GAS FG	9	2.30
88 x 9 FFG	1128 FFG	1	2.05	UY 118 GBS	UY 118 GBS	8	2.30
88 x 9 FG	1128 FG	1	2.05	UY 118 GBS GEBEDUR	UY 118 GBS	10	2.30
92 x 1	UY 143 GS	11	2.50	UY 118 GHS	UY 118 GHS	8	2.30
92 x 27 DIA	92 x 27 DIA	14	2.54	UY 118 GHS GEBEDUR	UY 118 GHS	10	2.30
94 x 5	573 N	9	2.08	UY 118 GKS	UY 118 GKS	9	2.30
96 x 1 ≤ 110	1738	1	2.09	UY 118 GKS GEBEDUR	UY 118 GKS	12	2.30
C 100 S	C 100 S	24	2.64	UY 120 GAS	UY 108 GS	7	2.33
UY 101 GS	UY 106 GS	5	2.31	UY 120 GBS	B 64	4	2.31
104	292 SP	7	2.01	UY 120 GFS	UY 108 GS	7	2.33
104 SC	UY 133 GS	9	2.45	UY 120 GHS	UY 108 GHS	7	2.33
UY 106 GHS	UY 106 GHS	5	2.31	UY 120 GKS	UY 108 GKS	7	2.31
UY 106 GKS	UY 106 GS	5	2.31	UY 120 GLS	B 64 FFG	4	2.31
UY 106 GLS	UY 106 GHS	5	2.31	UY 120 GS	UY 108 GS	7	2.33
UY 106 GS	UY 106 GS	5	2.31	UY 120 GTS	B 64	4	2.31
UY 108 GAS	UY 108 GS	7	2.33	UY 120 TAS	UY 108 TS	7	2.33
UY 108 GHS	UY 108 GHS	7	2.33	UY 120 TFS	UY 108 TS	7	2.33
UY 108 GKS	UY 108 GKS	7	2.31	UY 120 THS	UY 108 THS	7	2.33
UY 108 GS	UY 108 GS	7	2.33	UY 120 TS	UY 108 TS	7	2.33
UY 108 TAS	UY 108 TS	7	2.33	T 121 S ≤ 110	UY 121 GS	4	2.46
UY 108 THS	UY 108 THS	7	2.33	T 121 S ≥ 120	1280 KSP	4	2.43
UY 108 TS	UY 108 TS	7	2.33	UY 121 GAS	B 63	4	2.44
108 x 1	108 x 1	3	2.34	UY 121 GBS	UY 121 GBS	4	2.41
108 x 1 FFG	108 x 1	3	2.34	UY 121 GHS	UY 121 GHS	4	2.46
108 x 3	108 x 3	3	2.34	UY 121 GJS ≤ 80	1280 KSP SAN 10	5	2.47
UY 109 GS	UY 109 GS	7	2.31	UY 121 GJS ≥ 85	UY 121 GJS	5	2.46
110 S	110 S	6	2.52	UY 121 GKS	1280 KSP	4	2.43
110 S BIL	110 S TR	6	2.52	UY 121 GS ≤ 110	UY 121 GS	4	2.46
110 S FFG	110 S FFG	6	2.51	UY 121 GS ≥ 120	1280 KSP	4	2.43
110 S FG	110 S FG	6	2.51	UY 121 GS FFG	UY 121 GHS	4	2.46
110 S G	110 S TR	6	2.52	UY 121 GUS	1280 KSP FG	4	2.43
110 S TOP	110 S TOP	6	2.54	UY 121 GWS	1280 KSP FFG	4	2.43
110 S TR	110 S TR	6	2.52	UY 121 GXs	B 63 FFG	4	2.44
UY 110 GAS	UY 110 GAS	8	2.31	123 - 14 LG	123 - 14 LG	9	2.45
UY 110 GS	UY 110 GAS	8	2.31	UY 124 GS	UY 128 GAS	7	2.42
UY 113 GES	UY 113 GES	8	2.32	UY 124 GS R	UY 128 GAS R	7	2.42
UY 113 GES R	UY 113 GES R	8	2.32	UY 124 TS	UY 128 TAS	7	2.42
UY 113 GES R GEBEDUR	UY 113 GES R	10	2.32	124 x 2	DR x 2	20	2.62
UY 113 GHS	UY 113 GHS	8	2.32	124 x 2 STAY	DR x 2	20	2.62
UY 113 GS	UY 113 GS	8	2.32	124 x 4	UY 1970 G	22	2.62
UY 113 GS GEBEDUR	UY 113 GS	10	2.32	UY 126 GHS	UY 128 GBS	7	2.42
UY 113 GS FFG	UY 113 GHS	8	2.32	UY 126 GLS	UY 128 GBS	7	2.42

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
UY 126 GS	UY 128 GAS	7	2.42	128 x 22 NW	128 x 22 NW	7	2.16
UY 126 THS	UY 128 TBS	7	2.42	128 x 22 TRI	128 x 20 TRI	5	2.16
UY 126 TLS	UY 128 TBS	7	2.42	128 x 40 TRI	128 x 20 TRI	5	2.16
UY 126 TS	UY 128 TAS	7	2.42	129 NS 90-120	604 FE	25	2.56
126 x 1	126 x 3	3	2.40	129 NS 130+150	604 FE	25	2.61
126 x 3	126 x 3	3	2.40	129 NS 160	604 FE	25	2.62
126 x 9	126 x 3	3	2.40	129 x 1	129 x 1	6	2.53
126 x 11	126 x 11	9	2.54	130 B ≤ 110	34	1	2.11
UY 128 GAS	UY 128 GAS	7	2.42	130 B ≥ 120	287	1	2.12
UY 128 GAS GEBEDUR	UY 128 GAS	9	2.42	130 B FFG ≤ 110	34 FFG	1	2.12
UY 128 GAS - 2 ≤ 80	UY 128 SAN 10	8	2.47	130 B FG ≤ 110	34 FG	1	2.12
UY 128 GAS - 2 ≥ 85	UY 128 GJS	8	2.46	130 B LR ≤ 110	34 LR	3	2.13
UY 128 GAS FFG	UY 128 GBS	7	2.42	130 B LR ≥ 120	287 LR	3	2.11
UY 128 GAS KSP	1280 KSP	4	2.43	UY 130 GHS	UY 130 GHS	8	2.44
UY 128 GAS R	UY 128 GAS R	7	2.42	UY 130 GS	UY 130 GS	8	2.44
UY 128 GAS SAN 6	UY 128 SAN 6	8	2.47	UY 130 GS R	UY 130 GS R	8	2.45
UY 128 GBS	UY 128 GBS	7	2.42	UY 133 GS	UY 133 GS	9	2.45
UY 128 GBS GEBEDUR	UY 128 GBS	9	2.42	UY 133 TS	UY 133 TS	9	2.45
UY 128 GBS FG	UY 128 GBS FG	7	2.42	134	134	1	2.18
UY 128 GBS KSP	1280 KSP FFG	4	2.43	134 GEBEDUR	134	2	2.18
UY 128 GHS	UY 128 GHS	7	2.42	134 CL	134 CL	4	2.24
UY 128 GJS ≤ 80	UY 128 SAN 10	8	2.47	134 CL SAN 1	134 CL SAN 1	4	2.26
UY 128 GJS ≥ 85	UY 128 GJS	8	2.46	134 CL SAN 1 GEBEDUR	134 CL SAN 1	7	2.26
UY 128 GJS GEBEDUR	UY 128 GJS	10	2.46	134 CL SAN 2	134 CL SAN 2	5	2.26
UY 128 GLS	UY 128 GLS	7	2.42	134 CL SAN 3	134 CL SAN 3	6	2.26
UY 128 GS	UY 128 GS	7	2.43	134 CR	134 CR	4	2.23
UY 128 SAN 6	UY 128 SAN 6	8	2.47	134 D	134 D	4	2.19
UY 128 SAN 10	UY 128 SAN 10	8	2.47	134 D GEBEDUR	134 D	7	2.20
UY 128 TAS	UY 128 TAS	7	2.42	134 DI	134 DI	4	2.20
UY 128 TAS - 2	UY 128 TJS	8	2.46	134 EL	134 EL	7	2.19
UY 128 TAS FFG	UY 128 TBS	7	2.42	134 EM	134 EM	7	2.19
UY 128 TBS	UY 128 TBS	7	2.42	134 ER	134 ER	7	2.19
UY 128 TJS	UY 128 TJS	8	2.46	134 FFG	134 FFG	1	2.19
UY 128 TLS	UY 128 TLS	7	2.43	134 FFG GEBEDUR	134 FFG	2	2.19
UY 128 TS	UY 128 TS	7	2.43	134 FG	134 FG	1	2.19
128 x 1	128 x 21	3	2.16	134 FG GEBEDUR	134 FG	2	2.19
128 x 2	128 x 20 TRI	5	2.16	134 K	134 K	4	2.23
128 x 2 TRI	128 x 20 TRI	5	2.16	134 K GEBEDUR	134 K	7	2.23
128 x 3	128 x 21	3	2.16	134 K FFG	134 K FFG	4	2.23
128 x 4 NW	128 x 22 NW	7	2.16	134 KF	134 KF	6	2.27
128 x 6 NW	128 x 22 NW	7	2.16	134 KF FFG	134 KF FFG	6	2.27
128 x 6 TRI	128 x 20 TRI	5	2.16	134 KK ≤ 110	134 KK	1	2.22
128 x 13	128 x 21	3	2.16	134 KK ≥ 120	134	1	2.18
128 x 15	128 x 21	3	2.16	134 KK D ≤ 110	134 KK D	4	2.22
128 x 19	128 x 21	3	2.16	134 KK D ≥ 120	134 D	4	2.19
128 x 20	128 x 20 TRI	5	2.16	134 KK DI ≤ 110	134 KK DI	4	2.22
128 x 20 TRI	128 x 20 TRI	5	2.16	134 KK DI ≥ 120	134 DI	4	2.20
128 x 20 TRI GEBEDUR	128 x 20 TRI	7	2.16	134 KK FFG ≤ 110	134 KK FFG	1	2.22
128 x 21	128 x 21	3	2.16	134 KK FFG ≥ 120	134 FFG	1	2.18

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134 KK FG ≤ 110	134 KK FG	1	2.22	134 - 35 CL SAN 1 SD	134 - 35 CL SAN 1 SD	8	2.37
134 KK FG ≥ 120	134 FG	1	2.19	134 - 35 CR	134 - 35 CR	6	2.37
134 KK LL ≥ 120	134 LL	4	2.20	134 - 35 D	134 - 35 D	4	2.36
134 KK LL CR ≥ 120	134 LL CR	5	2.23	134 - 35 D GEBEDUR	134 - 35 D	7	2.36
134 KK LR ≤ 110	134 KK LR	4	2.23	134 - 35 DH	134 - 35 DH	4	2.36
134 KK LR ≥ 120	134 LR	4	2.20	134 - 35 DU KK	2134 - 35 DU KK	4	2.37
134 KK P ≥ 120	134 P	4	2.21	134 - 35 F	134 - 35 F	8	2.38
134 KK PCL ≤ 110	134 KK PCL	4	2.24	134 - 35 FFG	134 - 35 FFG	3	2.35
134 KK PCL ≥ 120	134 PCL	4	2.24	134 - 35 FG	134 - 35 FG	3	2.35
134 KK PCLS ≤ 110	134 KK PCL	4	2.24	134 - 35 FL-B	134 - 35 FL-B	6	2.36
134 KK PCLS ≥ 120	134 PCL	4	2.24	134 - 35 FM	134 - 35 FM	6	2.38
134 KK PCR ≥ 120	134 PCR	4	2.23	134 - 35 FR	134 - 35 FR	6	2.38
134 KK RS ≥ 120	134 RS	1	2.18	134 - 35 FR-B	134 - 35 FR-B	6	2.36
134 KK S ≤ 110	134 KK S	4	2.23	134 - 35 G	134 - 35 G	3	2.35
134 KK S ≥ 120	134 S	4	2.21	134 - 35 K	134 - 35 K	4	2.36
134 KK SD ≥ 120	134 SD	3	2.19	134 - 35 LL	134 - 35 LL	4	2.36
134 KK VR ≥ 120	134 VR	4	2.21	134 - 35 LR	134 - 35 LR	4	2.36
134 Lack	134 P	4	2.21	134 - 35 LR GEBEDUR	134 - 35 LR	7	2.36
134 LL	134 LL	4	2.20	134 - 35 PCL	134 - 35 PCL	6	2.37
134 LL CR	134 LL CR	5	2.23	134 - 35 PCR	134 - 35 PCR	6	2.37
134 LR	134 LR	4	2.20	134 - 35 RS	134 - 35 RS	3	2.35
134 LR GEBEDUR	134 LR	7	2.21	134 - 35 S	134 - 35 S	4	2.36
134 P	134 P	4	2.21	134 - 35 SAN 1	134 - 35 SAN 1	3	2.38
134 PCL	134 PCL	4	2.24	134 - 35 SD	134 - 35 SD	5	2.36
134 PCL GEBEDUR	134 PCL	7	2.24	134 - 35 SKL	134 - 35 SKL	3	2.35
134 PCR	134 PCR	4	2.24	134 - 35 VR	134 - 35 VR	4	2.36
134 PS	134 P	4	2.21	134 - 85	2134 - 85	4	2.37
134 RS	134 RS	1	2.18	134 - 85 CL	2134 - 85 CL	7	2.37
134 S	134 S	4	2.21	134 - 85 CR	2134 - 85 CR	7	2.37
134 S GEBEDUR	134 S	7	2.21	135	128 x 21	3	2.16
134 SAN 4	134 SAN 4	5	2.27	135 D	128 x 20 TRI	5	2.16
134 SAN 6	134 SAN 6	2	2.27	135 P	128 x 22 NW	7	2.16
134 SAN 10	134 SAN 10	2	2.26	135 x 1	135 x 1	2	2.08
134 SAN 10 FG	134 SAN 10 FG	2	2.27	135 x 1 FFG	135 x 1 FFG	2	2.08
134 SD	134 SD	3	2.19	135 x 1 FG	135 x 1 FG	2	2.08
134 SKL	134 SKL	1	2.19	135 x 5	134	1	2.18
134 VR	134 VR	4	2.22	135 x 5 FFG	134 FFG	1	2.19
B 134 ≤ 110	134 KK	1	2.22	135 x 5 FG	134 FG	1	2.19
B 134 ≥ 120	134	1	2.18	135 x 5 RS	134 RS	1	2.18
B 134 FFG ≤ 110	134 KK FFG	1	2.22	135 x 5 SD	134 SD	3	2.19
B 134 FFG ≥ 120	134 FFG	1	2.18	135 x 5 SKL	134 SKL	1	2.19
B 134 FG ≤ 110	134 KK FG	1	2.22	135 x 6 NW	134 P	4	2.21
B 134 FG ≥ 120	134 FG	1	2.19	135 x 7	134	1	2.18
B 134 RS ≥ 120	134 RS	1	2.18	135 x 7 CAP 7	134 CL SAN 1	4	2.26
134 - 35	134 - 35	3	2.35	135 x 7 FFG	134 FFG	1	2.19
134 - 35 GEBEDUR	134 - 35	6	2.35	135 x 7 FG	134 FG	1	2.19
134 - 35 CL	134 - 35 CL	6	2.37	135 x 7 LG SCARF	135 x 7 LG SCARF	2	2.26
134 - 35 CL SAN 1	134 - 35 CL SAN 1	6	2.37	135 x 7 LG SCARF FFG	135 x 7 LG SCARF FFG	2	2.26
134 - 35 CL SAN 1 GEBEDUR	134 - 35 CL SAN 1	8	2.37	135 x 7 RS	134 RS	1	2.18

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135 x 7 SD	134 SD	3	2.19	135 x 65 FFG	134 FFG	1	2.19
135 x 7 SKL	134 SKL	1	2.19	135 x 65 FG	134 FG	1	2.19
135 x 8 DIA	134 DI	4	2.20	135 x 65 RS	134 RS	1	2.18
135 x 8 NCR	134 S	4	2.21	135 x 69	135 x 1	2	2.08
135 x 8 NW	134 P	4	2.21	135 x 69 FFG	135 x 1 FFG	2	2.08
135 x 8 RTW	134 LR	4	2.20	135 x 69 FG	135 x 1 FG	2	2.08
135 x 8 RTWSP	134 VR	4	2.22	135 x 85	135 x 17	2	2.40
135 x 8 SD	134 SD	3	2.19	135 x 85 FFG	135 x 17 FFG	2	2.40
135 x 8 TRI	134 D	4	2.19	135 x 85 FG	135 x 17 FG	2	2.41
135 x 8 TW	134 LL	4	2.20	135 x 535	135 x 17	2	2.40
135 x 9	134 K	4	2.23	135 x 535 FFG	135 x 17 FFG	2	2.40
135 x 11	134	1	2.18	135 x 535 FG	135 x 17 FG	2	2.41
135 x 11 FFG	134 FFG	1	2.19	142 x 5	142 x 5	5	2.06
135 x 11 FG	134 FG	1	2.19	UY 143 GS	UY 143 GS	11	2.50
135 x 11 RS	134 RS	1	2.18	UY 143 GS KSP	UY 143 GS KSP	11	2.50
135 x 16 DIA	135 x 16 DIA	6	2.41	UY 143 GS KSP S	UY 143 GS KSP S	13	2.50
135 x 16 NRTW	135 x 16 RTW	6	2.41	UY 143 SPEAR	UY 943 GS	13	2.50
135 x 16 NTW	135 x 16 TW	6	2.41	UY 143 TS	UY 143 TS	11	2.50
135 x 16 NW	135 x 16 NW	6	2.41	UY 144 G	UY 144 GS	7	2.50
135 x 16 RTW	135 x 16 RTW	6	2.41	UY 144 GS	UY 144 GS	7	2.51
135 x 16 TRI	135 x 16 TRI	6	2.41	UY 147 GKS	UY 147 GKS	8	2.51
135 x 16 TRI GEBEDUR	135 x 16 TRI	8	2.41	UY 147 GS	UY 147 GS	8	2.51
135 x 16 TRI TIP	135 x 17 SD	4	2.41	UY 147 TS	UY 147 TS	8	2.51
135 x 16 TW	135 x 16 TW	6	2.41	149 x 1	149 x 1	5	2.33
135 x 17	135 x 17	2	2.40	149 x 3	UY 128 GAS	7	2.42
135 x 17 GEBEDUR	135 x 17	5	2.40	149 x 3 FFG	UY 128 GBS	7	2.42
135 x 17 CL SAN 1	135 x 17 CL SAN 1	4	2.41	149 x 3 FG	UY 128 GBS FG	7	2.42
135 x 17 FFG	135 x 17 FFG	2	2.40	149 x 3 R	UY 128 GAS R	7	2.42
135 x 17 FG	135 x 17 FG	2	2.41	149 x 5	149 x 5	6	2.49
135 x 17 SAN 1	135 x 17 SAN 1	2	2.41	149 x 5 SAN 6	149 x 5 SAN 6	7	2.49
135 x 17 SAN 6	135 x 17 SAN 6	3	2.41	149 x 7	149 x 7	6	2.33
135 x 17 SD	135 x 17 SD	4	2.41	149 x 7 FFG	149 x 7 FFG	6	2.33
135 x 17 SE	135 x 17 SAN 1	2	2.41	149 x 7 FG	149 x 7 FG	6	2.33
135 x 25	134	1	2.18	149 x 25 FFG ≥ 110	149 x 7 FFG	6	2.33
135 x 25 FFG	134 FFG	1	2.19	149 x 31	UY 128 GAS	7	2.42
135 x 25 FG	134 FG	1	2.19	149 x 31 FFG	UY 128 GBS	7	2.42
135 x 25 RS	134 RS	1	2.18	149 x 31 FG	UY 128 GBS FG	7	2.42
135 x 27	332	2	2.40	149 x 31 R	UY 128 GAS R	7	2.42
135 x 29	134 K	4	2.23	150	150	7	2.28
135 x 39	135 x 39	2	2.25	150 SC	190	4	2.52
135 x 51	134	1	2.18	150 SC FFG	190 FFG	4	2.52
135 x 51 FFG	134 FFG	1	2.19	UY 150 A	UY 150 GS	6	2.27
135 x 51 FG	134 FG	1	2.19	UY 150 G	UY 150 GS	6	2.27
135 x 51 RS	134 RS	1	2.18	UY 150 GA	UY 150 GS	6	2.27
135 x 53	1906	1	2.25	UY 150 GAS	UY 150 GS	6	2.27
135 x 53 FFG	1906 FFG	1	2.25	UY 150 GS	UY 150 GS	6	2.27
135 x 53 FG	1906 FG	1	2.25	UY 151 GS	UY 150 GS	6	2.27
135 x 53 SKL	1906 SKL	1	2.25	151 x 1	151 x 7	17	2.04
135 x 65	134	1	2.18	151 x 1 FFG	151 x 7 FFG	17	2.04

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151 x 1 FG	151 x 7 FG	17	2.04	UY 163 GBS	UY 163 GHS	7	2.35
151 x 3	151 x 7	17	2.04	UY 163 GHS	UY 163 GHS	7	2.35
151 x 5	151 x 7	17	2.04	UY 163 GS	UY 163 GAS	7	2.34
151 x 5 FFG	151 x 7 FFG	17	2.04	UY 174 G	UY 174 GS	21	2.62
151 x 5 FG	151 x 7 FG	17	2.04	UY 174 GS	UY 174 GS	21	2.62
151 x 7	151 x 7	17	2.04	175	88	8	2.55
151 x 7 FFG	151 x 7 FFG	17	2.04	175 H	175 H	3	2.55
151 x 7 FG	151 x 7 FG	17	2.04	175 HK	88 HK	5	2.55
151 x 9	151 x 9	22	2.05	175 LR	88 LR	8	2.55
151 x 11	151 x 9	22	2.05	175 x 1	1985	2	2.34
151 x 21	UY 154 GAS	15	2.06	175 x 1 FFG	1985	2	2.34
151 x 21 FFG	UY 154 GHS	15	2.07	175 x 1 FG	1985	2	2.34
151 x 21 FG	UY 154 GHS FG	15	2.07	175 x 1 FR	175 x 1 FS	6	2.34
151 x 25	UY 154 GFS	20	2.06	175 x 1 FS	175 x 1 FS	6	2.34
151 x 5503	151 x 9	22	2.05	175 x 1 R	1985 R	2	2.34
UY 154 FGS	UY 154 GHS	15	2.07	175 x 3	2018	3	2.49
UY 154 FTS	UY 154 THS	15	2.07	175 x 3 FFG	2018	3	2.49
UY 154 GAS	UY 154 GAS	15	2.06	175 x 3 FG	2018	3	2.49
UY 154 GAS FFG	UY 154 GHS	15	2.07	175 x 5	1985	2	2.34
UY 154 GBS	UY 154 GBS	20	2.06	175 x 5 FFG	1985	2	2.34
UY 154 GBS SAN 1	UY 154 GBS SAN 1	20	2.06	175 x 5 FG	1985	2	2.34
UY 154 GCS	UY 154 GFS	20	2.06	175 x 5 R	1985 R	2	2.34
UY 154 GDS	UY 154 GDS	20	2.06	175 x 7	2091	3	2.54
UY 154 GDS FFG	UY 154 GDS FFG	20	2.06	175 x 7 FFG	2091	3	2.54
UY 154 GFS	UY 154 GFS	20	2.06	175 x 7 FG	2091	3	2.54
UY 154 GHS	UY 154 GHS	15	2.07	175 x 7 KK	2091 KK	5	2.54
UY 154 GHS FG	UY 154 GHS FG	15	2.07	175 x 7 KK FFG	2091 KK	5	2.54
UY 154 GJS	UY 154 GJS	18	2.07	175 x 7 KK FG	2091 KK	5	2.54
UY 154 GLS	UY 154 GHS FG	15	2.07	175 x 9	29 LSS	3	2.54
UY 154 JCM	UY 154 JCM	20	2.06	175 x 9	2091	3	2.53
UY 154 TAS	UY 154 TAS	15	2.07	175 x 9 FFG	29 LSS	3	2.54
UY 154 TBS	UY 154 TBS	20	2.06	175 x 9 FFG	2091	3	2.53
UY 154 THS	UY 154 THS	15	2.07	175 x 9 FG	29 LSS	3	2.54
UY 154 ZA	UY 154 ZA	20	2.06	175 x 9 FG	2091	3	2.53
155	64	13	2.02	175 x 15	2091	3	2.54
B 155	B 155	8	2.09	175 x 15 FFG	2091	3	2.54
UY 158 GHS FG	UY 158 GHS FG	18	2.29	175 x 15 FG	2091	3	2.54
UY 158 GJS	UY 158 GJS	18	2.28	175 x 517	2091	3	2.53
UY 158 THS	UY 158 THS	18	2.28	176 x 1	292 SP	7	2.01
UY 158 TJS	UY 158 TJS	18	2.28	178 H	2018	3	2.49
UY 158 TLS	UY 158 THS	18	2.28	178 H FFG	2018	3	2.49
UY 161 GS	UY 161 GS	21	2.28	178 H FG	2018	3	2.49
UY 162 GAS	UY 162 SAS	17	2.05	UY 180 GAS	UY 180 GYS	5	2.28
UY 162 GBS	UY 162 GBS	17	2.05	UY 180 GKS	UY 180 GWS	5	2.28
UY 162 SAS	UY 162 SAS	17	2.05	UY 180 GNS	UY 180 GXS	5	2.28
UY 162 SAS FFG	UY 162 GBS	17	2.05	UY 180 GPS	UY 180 GYS	5	2.28
UY 162 SAS R	UY 162 SAS R	17	2.05	UY 180 GS	UY 180 GYS	5	2.28
UY 162 SDS	UY 162 SDS	20	2.05	UY 180 GVS	UY 180 GVS	5	2.28
UY 163 GAS	UY 163 GAS	7	2.34	UY 180 GWS	UY 180 GWS	5	2.28

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UY 180 GXS	UY 180 GXS	5	2.28
UY 180 GYS	UY 180 GYS	5	2.28
UY 180 GYS GEBEDUR	UY 180 GYS	7	2.28
UY 180 GYS SAN 6	UY 180 SAN 6	6	2.28
UY 180 SAN 6	UY 180 SAN 6	6	2.28
UY 182 GAS	UY 182 GAS	7	2.40
UY 183 GCS	UY 183 GXS	5	2.05
UY 183 GHS	UY 183 GXS	5	2.05
UY 183 GNS	UY 183 GXS	5	2.05
UY 183 GPS	UY 183 GYS	5	2.05
UY 183 GS	UY 183 GYS	5	2.05
UY 183 GXS	UY 183 GXS	5	2.05
UY 183 GYS	UY 183 GYS	5	2.05
UY 185 GAS	UY 180 GXS	5	2.28
UY 185 GBS	UY 180 GYS	5	2.28
UY 185 GLS	UY 185 GLS	5	2.28
190	190	4	2.52
190 / 2	190 / 2	9	2.53
190 FFG	190 FFG	4	2.52
190 K	190 K	4	2.52
190 K FFG	190 K	4	2.52
190 K SAN 1	190 K SAN 1	9	2.53
190 K SAN 2	190 K SAN 2	9	2.53
190 LR	190 LR	6	2.52
190 SAN 3	190 SAN 3	9	2.53
190 SAN 4	190 SAN 4	9	2.53
UY 191 GS	B 27	4	2.02
UY 192 GBS	B 64	4	2.31
UY 192 GLS	B 64 FFG	4	2.31
UY 192 GTS	B 64	4	2.31
N 200	FD 5 FR	16	2.45
UY 203 GS	UY 203 GS	10	2.32
UY 204 GS	UY 204 GS	10	2.32
213 x 1 ≥ 120	332	2	2.40
214 x 1 ≤ 140	328	9	2.57
214 x 1 150-190	328	9	2.57
214 x 1 ≥ 200	328	9	2.59
214 x 2 DIA	328 DI	12	2.59
214 x 2 NCR 150-190	328 S	12	2.58
214 x 2 NCR ≥ 200	328 S	12	2.60
214 x 2 NW	328 P	12	2.59
214 x 2 RTW ≤ 140	328 LR	11	2.57
214 x 2 RTW 150-190	328 LR	11	2.58
214 x 2 RTW ≥ 200	328 LR	11	2.59
214 x 2 TW ≤ 140	328 LL	11	2.57
214 x 2 TW 150-190	328 LL	11	2.58
214 x 2 TW ≥ 200	328 LL	11	2.59
215 AH	215 AH	4	2.55
215 AH FFG	215 AH FFG	4	2.55

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
216 x 1 160+180	216 x 1	15	2.59
216 x 1 ≥ 200	216 x 1	15	2.60
216 x 2 NW	216 x 2 NW	18	2.59
216 x 7	216 x 7	21	2.60
UY 217 SD	UY 217 SD	12	2.32
UY 218 SD	UY 218 SD	12	2.33
228 LR	228 LR	12	2.52
245 SC	134	1	2.18
251	251	17	2.47
251 EL	251 EL	17	2.48
251 EL FFG	251 EL FFG	17	2.48
251 ELV	251 ELV	21	2.48
251 EU	251 EU	19	2.39
251 EUV	251 EUV	22	2.39
251 FFG	251 FFG	17	2.47
251 LG	251 LG	17	2.48
251 LG 300	251 EL	17	2.48
251 V	251 V	21	2.47
265	438	4	2.25
265 FFG	438 FFG	4	2.25
265 FG	438 FG	4	2.25
265 KK ≤ 110	438 KK	4	2.26
265 KK 120	438	4	2.25
265 LR	438 LR	6	2.25
265 - 5	265 - 5	4	2.26
265 - 5 EO	265 - 5	4	2.26
265 - 50	265 - 50 EO	5	2.26
265 - 50 EO	265 - 50 EO	5	2.26
265 - 50 EO FFG	265 - 50 EO FFG	5	2.26
265 - 50 EO FG	265 - 50 EO FG	5	2.26
275	UY 162 SAS R	17	2.05
276	UY 162 SAS R	17	2.05
287 ≤ 110	34	1	2.12
287 ≥ 120	287	1	2.11
287 D ≤ 110	34 D	3	2.12
287 FFG ≤ 110	34 FFG	1	2.12
287 FG ≤ 110	34 FG	1	2.12
287 H ≤ 110	34	1	2.12
287 H ≥ 120	287	1	2.11
287 H LR ≤ 110	34 LR	3	2.13
287 H LR ≥ 120	287 LR	3	2.11
287 L ≤ 110	34 LR	3	2.13
287 L ≥ 120	287 LR	3	2.11
287 LL ≤ 110	34 LL	3	2.13
287 LR ≤ 110	34 LR	3	2.13
287 LR ≥ 120	287 LR	3	2.11
287 NW ≤ 110	16 x 6	3	2.14
287 P ≤ 110	34 P	3	2.13
287 PCL ≤ 110	34 PCL	3	2.14

Sistema de agujas		Sistema GB	GP	Capítulo/Pág.	Sistema de agujas		Sistema GB	GP	Capítulo/Pág.
Sistemas das agulhas		Sistema GB	GP	Página	Sistemas das agulhas		Sistema GB	GP	Página
287 PCR	≤ 110	16 x 6	3	2.14	332 LGH KSP KK		332 LGH KSP KK	4	2.55
287 S	≤ 110	34 S	3	2.13	332 LGH KSP RG		332 LGH KSP RG	4	2.55
287 WH	≤ 110	1738	1	2.09	332 LL		332 LL	5	2.40
287 WH	≥ 120	71 x 1	1	2.14	332 LR		332 LR	5	2.40
287 WH FFG	≤ 110	1738 FFG	1	2.10	FLS - 351		FLS - 351	25	2.01
287 WH FFG	≥ 120	71 x 1 FFG	1	2.14	354		135 x 1	2	2.08
287 WH FG	≤ 110	1738 FG	1	2.10	354 FFG		135 x 1 FFG	2	2.08
287 WH LR	≤ 110	1738 LR	4	2.11	354 FG		135 x 1 FG	2	2.08
287 WH RS	≤ 110	1738 RS	1	2.10	367 S	≤ 130	367 S	10	2.52
287 WH SD	≤ 110	1738 SD	3	2.10	367 S	≥ 140	367 S	10	2.52
287 WK		287 WKH	3	2.11	367 S LG	≤ 130	367 S LG	10	2.52
287 WK FFG		287 WKH FFG	3	2.12	367 S LG	≥ 140	367 S LG	10	2.54
287 WK FG		287 WKH FG	3	2.12	376	≤ 110	34	1	2.12
287 WK RG		287 WKH RG	3	2.11	376	≥ 120	287	1	2.11
287 WKH		287 WKH	3	2.11	376 D	≤ 110	34 D	3	2.12
287 WKH GEBEDUR		287 WKH	6	2.11	376 FFG	≤ 110	34 FFG	1	2.12
287 WKH FFG		287 WKH FFG	3	2.12	376 FG	≤ 110	34 FG	1	2.12
287 WKH FG		287 WKH FG	3	2.12	376 LL	≤ 110	34 LL	3	2.13
287 WKH RG		287 WKH RG	3	2.11	376 LR	≤ 110	34 LR	3	2.13
287 WKK		287 WKH	3	2.11	376 LR	≥ 120	287 LR	3	2.11
292 A		292 SP	7	2.01	376 P	≤ 110	34 P	3	2.13
292 H		Bonis H	7	2.05	376 PCL	≤ 110	34 PCL	3	2.14
292 SP		292 SP	7	2.01	376 S	≤ 110	34 S	3	2.13
296		292 SP	7	2.01	390		292 SP	7	2.01
300		251 EL	17	2.48	392		292 SP	7	2.01
300 GEB		251 EL	17	2.48	UY 417 GS		UY 417 GS	10	2.32
300 GEB FFG		251 EL FFG	17	2.48	UY 418 GS		UY 418 GS	10	2.33
UY 301 GS		UY 306 GS	7	2.31	428		428	9	2.60
UY 306 GS		UY 306 GS	7	2.31	428 S		428 S	12	2.60
328	≤ 140	328	9	2.57	431	≤ 110	1738	1	2.09
328	150-190	328	9	2.58	431	≥ 120	71 x 1	1	2.14
328	≥ 200	328	9	2.59	431 FFG	≤ 110	1738 FFG	1	2.10
328 A		328 A	9	2.59	431 FFG	≥ 120	71 x 1 FFG	1	2.14
328 DI		328 DI	12	2.59	431 FG	≤ 110	1738 FG	1	2.10
328 EM		328 EM	15	2.58	431 RS	≤ 110	1738 RS	1	2.10
328 FL-E		328 FL-E	13	2.57	438		438	4	2.25
328 LL	≤ 140	328 LL	11	2.57	438 FFG		438 FFG	4	2.25
328 LL	150-190	328 LL	11	2.58	438 FFG GEBEDUR		438 FFG	7	2.25
328 LL	≥ 200	328 LL	11	2.59	438 FG		438 FG	4	2.25
328 LR	≤ 140	328 LR	11	2.57	438 KK	≤ 110	438 KK	4	2.26
328 LR	150-190	328 LR	11	2.58	438 KK	120	438	4	2.25
328 LR	≥ 200	328 LR	11	2.59	438 LR		438 LR	6	2.25
328 P		328 P	12	2.60	438 - 8		265 - 5	4	2.26
328 S	150-190	328 S	12	2.58	438 - 8 EO		265 - 5	4	2.26
328 S	≥ 200	328 S	12	2.60	438 - 80 EO		265 - 50 EO	5	2.26
332		332	2	2.40	438 - 80 EO FFG		265 - 50 EO FFG	5	2.26
332 GEBEDUR		332	5	2.40	438 - 80 EO FG		265 - 50 EO FG	5	2.26
332 LG		332 LG	3	2.55	450 SC		29 BL	19	2.48
332 LGH KSP		332 LGH KSP	4	2.55	459 LG SD		459 LG	7	2.33

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
459 R	459 R	5	2.09	563 FFG ≥ 120	134 FFG	1	2.18
470 KA	470 KA	8	2.45	563 FG ≤ 110	34 FG	1	2.12
490	490	3	2.56	563 FG ≥ 120	134 FG	1	2.19
490 F	490 F	9	2.56	563 LL ≤ 110	34 LL	3	2.13
490 F LG	2331 F LG	10	2.62	563 LL ≥ 120	134 LL	4	2.20
490 FFG	490 FFG	3	2.56	563 LR ≤ 110	34 LR	3	2.13
500	505 LG	5	2.35	563 LR ≥ 120	134 LR	4	2.20
500 LS	501 SC	4	2.08	566 x 1	1985	2	2.34
500 SC	501 SC	4	2.08	566 x 2	2091	3	2.54
501	501 SC	4	2.08	573 N	573 N	9	2.08
501 SC	501 SC	4	2.08	576	UY 162 SAS R	17	2.05
501 SC FFG	505 SC	4	2.08	576 FFG	UY 162 GBS	17	2.05
UY 501 GS	UY 506 GS	7	2.31	576 SAN 1	576 SAN 1	17	2.05
502	501 SC	4	2.08	W&G 576	UY 162 SAS R	17	2.05
502 SC	501 SC	4	2.08	W&G 576 FFG	UY 162 GBS	17	2.05
W&G 502	64	13	2.02	604 FE $90-120$	604 FE	25	2.56
503	503 SC	5	2.09	604 FE $130+150$	604 FE	25	2.61
503 SC	503 SC	5	2.09	604 FE 160	604 FE	25	2.62
503 SC GEBEDUR	503 SC	7	2.09	606 ≤ 110	34	1	2.12
505 LG	505 LG	5	2.35	606 ≥ 120	287	1	2.11
505 LS	505 SC	4	2.08	606 D ≤ 110	34 D	3	2.12
505 SC	505 SC	4	2.08	606 LL ≤ 110	34 LL	3	2.13
506 LG	506 LG	9	2.49	606 LR ≤ 110	34 LR	3	2.13
506 Q LG	506 Q LG	11	2.49	606 LR ≥ 120	287 LR	3	2.11
UY 506 GS	UY 506 GS	7	2.31	606 P ≤ 110	34 P	3	2.13
508 SC	508 SC	6	2.08	606 S ≤ 110	34 S	3	2.13
W&G 511	W&G 511	12	2.01	621	81 x 1	4	2.04
513	W&G 513	16	2.02	621 D	MY 1072	10	2.03
W&G 513	W&G 513	16	2.02	621 D FFG	MY 1072 FFG	10	2.03
544	DR x 2	20	2.62	621 FFG	81 x 1 FFG	4	2.04
544 D	UY 1970 G	22	2.62	621 FG	81 x 1 FG	4	2.04
550 QMA	550 QMA	15	2.62	657 H	215 AH	4	2.55
551	561 - 2	7	2.29	657 H FFG	215 AH FFG	4	2.55
551 A	561 - 2	7	2.29	660	660	21	2.34
W&G 551	561 - 2	7	2.29	661	UY 162 SAS R	17	2.05
W&G 551 A	561 - 2	7	2.29	661 FFG	UY 162 GBS	17	2.05
555	561 - 1	7	2.29	671	12 - 690	22	2.29
555 A	561 - 1	7	2.29	690 ≤ 110	34	1	2.12
W&G 555	561 - 1	7	2.29	690 ≥ 120	287	1	2.11
W&G 555 A	561 - 1	7	2.29	690 D ≤ 110	34 D	3	2.12
556 KH	134 K	4	2.23	690 FFG ≤ 110	34 FFG	1	2.12
556 KH FFG	134 K FFG	4	2.23	690 FG ≤ 110	34 FG	1	2.12
558	558	6	2.27	690 LL ≤ 110	34 LL	3	2.13
558 SAN 1	558 SAN 1	6	2.27	690 LR ≤ 110	34 LR	3	2.13
561 - 1	561 - 1	7	2.29	690 LR ≥ 120	287 LR	3	2.11
561 - 2	561 - 2	7	2.29	690 P ≤ 110	34 P	3	2.13
563 ≤ 110	34	1	2.12	690 S ≤ 110	34 S	3	2.13
563 ≥ 120	134	1	2.18	UY 706 S	UY 306 GS	7	2.31
563 FFG ≤ 110	34 FFG	1	2.12	711	332	2	2.40

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
750	750 SC	7	2.08
750 FFG	751 SC	7	2.08
750 FG	750 SC FG	7	2.08
750 H	750 SC	7	2.08
750 H FG	750 SC FG	7	2.08
750 H LS	750 SC	7	2.08
750 H MS	750 SC	7	2.08
750 LG	750 SC	7	2.08
750 LS	750 SC	7	2.08
750 LS FFG	751 SC	7	2.08
750 LS FG	750 SC FG	7	2.08
750 SAN 1	750 SAN 1	7	2.08
750 SAN 2	750 SAN 2	7	2.09
750 SC	750 SC	7	2.08
750 SC FFG	751 SC	7	2.08
750 SC FG	750 SC FG	7	2.08
751	751 SC	7	2.08
751 LS	751 SC	7	2.08
751 SC	751 SC	7	2.08
752	752	15	2.61
755 H	501 SC	4	2.08
755 H FFG	505 SC	4	2.08
759 ≤ 110	UY 121 GS	4	2.46
759 ≥ 120	1280 KSP	4	2.43
759 FFG	UY 121 GHS	4	2.46
759 H	1280 KSP	4	2.43
793	794 H	12	2.63
793 FL	794 H FL	20	2.64
794	794 H	12	2.63
794 D	794 D	15	2.64
794 FLM	794 FLM	19	2.63
794 FLM FFG	794 FLM FFG	19	2.64
794 H	794 H	12	2.63
794 H FFG	794 H FFG	12	2.63
794 H FL	794 H FL	20	2.64
794 H FR	794 H FR	20	2.63
794 H FR FFG	794 H FR FFG	20	2.64
794 H KF	7 x 3 KF	20	2.64
794 KSP FL	7 x 3 KF	20	2.64
794 LR	794 LR	15	2.63
794 SAN 1	794 SAN 1	19	2.64
797	134	1	2.18
797 CL	134 CL	4	2.24
797 CR	134 CR	4	2.23
797 D	134 D	4	2.19
797 EL	134 EL	7	2.19
797 ER	134 ER	7	2.19
797 FFG	134 FFG	1	2.19
797 FG	134 FG	1	2.19

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
797 KH	134 K	4	2.23
797 KH FFG	134 K FFG	4	2.23
797 KK ≤ 110	134 KK	1	2.22
797 KK ≥ 120	134	1	2.18
797 KK FFG ≤ 110	134 KK FFG	1	2.22
797 KK FFG ≥ 120	134 FFG	1	2.18
797 KK FG ≤ 110	134 KK FG	1	2.22
797 KK FG ≥ 120	134 FG	1	2.19
797 KK LR ≤ 110	134 KK LR	4	2.23
797 KK LR ≥ 120	134 LR	4	2.20
797 KK P ≥ 120	134 P	4	2.21
797 KK PCL ≤ 110	134 KK PCL	4	2.24
797 KK PCL ≥ 120	134 PCL	4	2.24
797 KK PCR ≥ 120	134 PCR	4	2.23
797 KK RS ≥ 120	134 RS	1	2.18
797 KK S ≤ 110	134 KK S	4	2.23
797 KK S ≥ 120	134 S	4	2.21
797 KK SD ≥ 120	134 SD	3	2.19
797 KK VR ≥ 120	134 VR	4	2.21
797 KSP	134 K	4	2.23
797 LL	134 LL	4	2.20
797 LR	134 LR	4	2.20
797 P	134 P	4	2.21
797 PCL	134 PCL	4	2.24
797 PCR	134 PCR	4	2.24
797 RS	134 RS	1	2.18
797 S	134 S	4	2.21
797 SD	134 SD	3	2.19
797 SKL	134 SKL	1	2.19
797 VR	134 VR	4	2.22
802	UY 106 GS	5	2.31
802 ST	UY 306 GS	7	2.31
802 V	UY 306 GS	7	2.31
805	805	9	2.38
805 LR	805 LR	10	2.38
0854	0854	6	2.52
0854 V	0854	6	2.52
854	854 S	6	2.51
854 S	854 S	6	2.51
854 S FFG	854 S FFG	6	2.51
854 S FG	854 S FG	6	2.51
854 S G	854 S TR	6	2.51
854 S TR	854 S TR	6	2.51
860	490	3	2.56
860 FFG	490 FFG	3	2.56
862	490 F	9	2.56
865	573 N	9	2.08
UY 924 GS	UY 924 GS	9	2.38
UY 928 GS	UY 929 GS	8	2.42

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
UY 929 G	UY 929 GS	8	2.42
UY 929 GS	UY 929 GS	8	2.42
933	933	6	2.49
934	934	6	2.33
934 FFG	934	6	2.33
UY 943 G	UY 943 GS	13	2.50
UY 943 GA	UY 943 GA	13	2.50
UY 943 GS	UY 943 GS	13	2.50
UY 947 G	UY 943 GS	13	2.50
UY 947 GA	UY 947 GA	13	2.50
UY 947 GS	UY 943 GS	13	2.50
950	950 SC	9	2.61
950 A	950 A	9	2.62
950 H	950 SC	9	2.61
950 SC	950 SC	9	2.61
951 SC	950 SC	9	2.61
953 SC	950 SC	9	2.61
955	958 SC	10	2.62
955 SC	958 SC	10	2.62
956	958 SC	10	2.62
956 SC	958 SC	10	2.62
958 SC	958 SC	10	2.62
971 B1	971 B1	11	2.45
973 PCL ≤ 110	34 PCL	3	2.14
MY 1001 ≤ 110	UY 121 GS	4	2.46
MY 1001 ≥ 120	1280 KSP	4	2.43
MY 1001 FFG	UY 121 GHS	4	2.46
SY 1001	292 SP	7	2.01
MY 1002	UY 106 GS	5	2.31
MY 1002 A	149 x 7	6	2.33
MY 1002 A FFG	149 x 7 FFG	6	2.33
MY 1002 A FG	149 x 7 FG	6	2.33
MY 1004	UY 306 GS	7	2.31
1007 ≤ 110	34	1	2.11
1007 ≥ 120	287	1	2.12
MY 1013	UY 143 GS	11	2.50
B 1014	B 1014	9	2.48
MY 1014	MY 1014 B	8	2.40
MY 1014 A	MY 1014 B	8	2.40
MY 1014 A FFG	MY 1014 B FFG	8	2.40
MY 1014 B	MY 1014 B	8	2.40
MY 1014 B GEBEDUR	MY 1014 B	10	2.40
MY 1014 B FFG	MY 1014 B FFG	8	2.40
MY 1014 C	MY 1014 C	5	2.39
MY 1014 D	MY 1014 D	5	2.39
MY 1014 FFG	MY 1014 B FFG	8	2.40
MY 1014 H	MY 1014 H	8	2.47
MY 1014 H GEBEDUR	MY 1014 H	10	2.47
MY 1014 H FFG	MY 1014 H FFG	8	2.48

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
MY 1014 H FM	MY 1014 H FM	9	2.48
1014 - 12	AMF 1014 - 12	27	2.29
AMF 1014 - 12	AMF 1014 - 12	27	2.29
1014 - 13	AMF 1014 - 13	27	2.29
AMF 1014 - 13	AMF 1014 - 13	27	2.29
MY 1023	B 27	4	2.02
MY 1023 A	81 x 1	4	2.04
MY 1023 A FFG	81 x 1 FFG	4	2.04
MY 1023 A FG	81 x 1 FG	4	2.04
MY 1023 A SAN 1	MY 1023 A SAN 1	4	2.03
MY 1023 FFG	B 27 FFG	4	2.02
MY 1023 FG	B 27 FG	4	2.02
MY 1023 R	B 27 R	4	2.02
MY 1023 RS	B 27 RS	4	2.02
MY 1023 SKL	B 27 SKL	4	2.02
MY 1026	UY 506 GS	7	2.31
1032 B1-26	AMF 1032 B1-26	24	2.01
AMF 1032 B1-26	AMF 1032 B1-26	24	2.01
1032 B1-36	AMF 1032 B1-36	24	2.01
AMF 1032 B1-36	AMF 1032 B1-36	24	2.01
1032 B1-38	AMF 1032 B1-38	24	2.01
AMF 1032 B1-38	AMF 1032 B1-38	24	2.01
1032 B1-49	AMF 1032 B1-49	24	2.01
AMF 1032 B1-49	AMF 1032 B1-49	24	2.01
MY 1033	UY 106 GS	5	2.31
MY 1040	UY 128 GAS	7	2.42
MY 1040 FG	UY 128 GBS FG	7	2.42
MY 1040 R	UY 128 GAS R	7	2.42
MY 1042	UY 128 GAS	7	2.42
MY 1043	UY 106 GS	5	2.31
MY 1044	UY 128 GAS	7	2.42
MY 1044 FFG	UY 128 GBS	7	2.42
MY 1044 FG	UY 128 GBS FG	7	2.42
MY 1044 R	UY 128 GAS R	7	2.42
MY 1046	UY 121 GBS	4	2.41
1055 K	1055 K	4	2.31
S 1064 ≤ 110	1738	1	2.09
1065 K	1065 K	6	2.31
MY 1072	MY 1072	10	2.03
MY 1072 FFG	MY 1072 FFG	10	2.03
1104 ≤ 110	34	1	2.12
1104 120-140	34	1	2.16
1104 ≥ 150	134	1	2.18
1104 D ≤ 110	34 D	3	2.12
1104 D 120-140	34 D	3	2.17
1104 D ≥ 150	134 D	4	2.19
1104 FFG ≤ 110	34 FFG	1	2.12
1104 FFG 120-140	34 FFG	1	2.16
1104 FG	34 FG	1	2.12

Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.	Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.
Sistemas das agulhas		Sistema GB	GP	Página	Sistemas das agulhas		Sistema GB	GP	Página
1104 LL	≤ 110	34 LL	3	2.13	1290 B		561 - 1	7	2.29
1104 LL	120-140	34 LL	3	2.17	1291 B		561 - 2	7	2.29
1104 LL	≥ 150	134 LL	4	2.20	SY 1291		151 x 7	17	2.04
1104 LR	≤ 110	34 LR	3	2.13	SY 1292		151 x 7 FG	17	2.04
1104 LR	120-140	34 LR	3	2.17	SY 1293		151 x 9	22	2.05
1104 LR	≥ 150	134 LR	4	2.20	SY 1302		1128	1	2.05
1104 P	≤ 110	34 P	3	2.13	1309		UY 106 GS	5	2.31
1104 P	≥ 150	134 P	4	2.21	SY 1315		1128	1	2.05
1104 PCR	≤ 110	16 x 6	3	2.14	SY 1327		1128 FG	1	2.05
1104 PCR	120-140	34 PCR	3	2.18	1355		68 x 5	3	2.16
1104 PCR	≥ 150	134 PCR	4	2.24	SY 1361		1128	1	2.05
1104 S	≤ 110	34 S	3	2.13	SY 1366		1128 FG	1	2.05
1104 S	120-140	34 S	3	2.17	1373		UY 150 GS	6	2.27
1104 S	≥ 150	134 S	4	2.21	1401		561 - 2	7	2.29
SY 1111		24 x 1	10	2.01	1402		561 - 1	7	2.29
1128		1128	1	2.05	SY 1413		142 x 5	5	2.06
1128 FFG		1128 FFG	1	2.05	SY 1431		UY 154 GAS	15	2.06
1128 FG		1128 FG	1	2.05	SY 1433		UY 154 GHS	15	2.07
MY 1151		151 x 7	17	2.04	SY 1434		UY 154 GHS FG	15	2.07
MY 1151 FFG		151 x 7 FFG	17	2.04	1435		151 x 7	17	2.04
MY 1151 FG		151 x 7 FG	17	2.04	SY 1435		UY 8454 GS	20	2.07
1207		1207	7	2.51	SY 1439		UY 154 GFS	20	2.06
SY 1225		81 x 1	4	2.04	1441		3207 CR RG	4	2.14
SY 1230		B 29	6	2.03	1441 FFG		3207 CR RG	4	2.14
SY 1241		81 x 1	4	2.04	1441 R		3207 CR	4	2.14
1242		1738	1	2.09	1441 RG		3207 CR RG	4	2.14
MY 1242		UY 163 GAS	7	2.35	1442	≤ 110	1738	1	2.09
MY 1242 FFG		UY 163 GHS	7	2.34	1442	≥ 120	71 x 1	1	2.14
SY 1246		DM x 13	5	2.03	SY 1442		UY 8455 GS	20	2.07
SY 1251		DM x 13 FG	5	2.03	SY 1443		UY 8456 GS	20	2.07
SY 1261		151 x 7	17	2.04	SY 1451		135 x 1	2	2.08
SY 1263		151 x 7	17	2.04	SY 1458		135 x 1 FG	2	2.08
SY 1265		151 x 7	17	2.04	1470		505 LG	5	2.35
SY 1266		151 x 9	22	2.05	SY 1496		573 N	9	2.08
SY 1268		151 x 7 FG	17	2.04	SY 1504	≤ 110	34	1	2.12
SY 1271		151 x 7 FG	17	2.04	SY 1504	≥ 120	287	1	2.11
1280		UY 128 GAS	7	2.42	SY 1513	≤ 110	34	1	2.12
1280 FFG		UY 128 GBS	7	2.42	SY 1513	≥ 120	71 x 1	1	2.14
1280 FG		UY 128 GBS FG	7	2.42	SY 1515	≤ 110	1738	1	2.09
1280 KSP		1280 KSP	4	2.43	SY 1515	≥ 120	71 x 1	1	2.14
1280 KSP	GEDEDUR	1280 KSP	7	2.43	MY 1517		151 x 7	17	2.04
1280 KSP FFG		1280 KSP FFG	4	2.43	MY 1517 FFG		151 x 7 FFG	17	2.04
1280 KSP FG		1280 KSP FG	4	2.43	MY 1517 FG		151 x 7 FG	17	2.04
1280 KSP SAN 10		1280 KSP SAN 10	5	2.47	SY 1518	≤ 110	34 FG	1	2.12
1280 KSP SAN 10	GEDEDUR	1280 KSP SAN 10	7	2.47	MY 1519		151 x 9	22	2.05
1280 R		UY 128 GAS R	7	2.42	SY 1526	≤ 110	1738	1	2.09
1280 KSP - 2	≤ 80	1280 KSP SAN 10	5	2.47	SY 1526	≥ 120	71 x 1	1	2.14
1280 KSP - 2	≥ 85	UY 121 GJS	5	2.46	SY 1529	≤ 110	1738 FG	1	2.10
1286		UY 143 GS	11	2.50	1531		135 x 1	2	2.08

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
1531 FFG	135 x 1 FFG	2	2.08
SY 1548 ≤ 110	34 D	3	2.12
SY 1552	16 x 26 NW	5	2.15
1567	459 R	5	2.09
1571	46 x 1	6	2.29
SY 1575 ≤ 110	34 PCL	3	2.14
SY 1579	16 x 246 SD	5	2.13
1619	UY 163 GAS	7	2.34
1619 FFG	UY 163 GHS	7	2.35
1620 90-120	604 FE	25	2.56
1620 130+150	604 FE	25	2.61
1620 160	604 FE	25	2.62
SY 1627	3207 CR RG	4	2.14
1628 ≤ 110	UY 121 GS	4	2.46
1628 ≥ 120	1280 KSP	4	2.43
1628 FFG	UY 121 GHS	4	2.46
SY 1628	68 x 5	3	2.16
SY 1629	3207 CR	4	2.14
SY 1631	3207 CR	4	2.14
SY 1632	3207 CR	4	2.14
SY 1634	68 x 5 FFG	3	2.16
1642 ≤ 110	34	1	2.12
1642 120-140	34	1	2.16
1642 ≥ 150	134	1	2.18
1642 FFG ≤ 110	34 FFG	1	2.12
1642 FFG 120-140	34 FFG	1	2.16
1642 FG	34 FG	1	2.12
1642 LL ≤ 110	34 LL	3	2.13
1642 LL 120-140	34 LL	3	2.17
1642 LL ≥ 150	134 LL	4	2.20
1642 LR ≤ 110	34 LR	3	2.13
1642 LR 120-140	34 LR	3	2.17
1642 LR ≥ 150	134 LR	4	2.20
1642 P ≤ 110	34 P	3	2.13
1642 P ≥ 150	134 P	4	2.21
1642 PCR ≤ 110	16 x 6	3	2.14
1642 PCR 120-140	34 PCR	3	2.18
1642 PCR ≥ 150	134 PCR	4	2.24
1644	1128	1	2.05
1645	128 x 21	3	2.16
1647 ≤ 110	1738	1	2.09
1647 ≥ 120	134	1	2.18
1652 ≤ 110	34	1	2.12
1652 ≥ 120	134	1	2.18
1653	128 x 21	3	2.16
SY 1653	128 x 21	3	2.16
SY 1660	128 x 21	3	2.16
1661	1985	2	2.34
1661 ELG ≤ 125	29 LSS	3	2.54

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
1661 ELG ≥ 130	2091	3	2.53
1661 FFG	1985	2	2.34
1661 FG	1985	2	2.34
1661 LG	2018	3	2.49
1661 LG FFG	2018	3	2.49
1661 LG FG	2018	3	2.49
1661 M	1985	2	2.34
1664 ST	UY 306 GS	7	2.31
SY 1664	128 x 21	3	2.16
SY 1666	128 x 21	3	2.16
1669	251 EU	19	2.39
1669 E	1669 E EO	19	2.39
1669 E CH EO	1669 E EO	19	2.39
1669 E EO	1669 E EO	19	2.39
1669 R	1669 E EO	19	2.39
1669 R EO	1669 E EO	19	2.39
1671 E	1671 E EO	19	2.50
1671 E Ch	1671 E EO	19	2.50
1671 E Ch EO	1671 E EO	19	2.50
1671 E EO	1671 E EO	19	2.50
1671 R	1671 E EO	19	2.50
1671 R Ch EO	1671 E EO	19	2.50
1671 R EO	1671 E EO	19	2.50
1671 R VO	1671 E EO	19	2.50
1672 E EO	4671 E EO	22	2.51
1673	135 x 1	2	2.08
1673 FFG	135 x 1 FFG	2	2.08
1673 FG	135 x 1 FG	2	2.08
1676 ≤ 110	34	1	2.12
1676 ≥ 120	134	1	2.18
SY 1705	128 x 22 NW	7	2.16
SY 1708	128 x 22 NW	7	2.16
SY 1713	128 x 20 TRI	5	2.16
1715	251 EU	19	2.39
1715 E	1669 E EO	19	2.39
1715 F	251	17	2.47
1717 BE	29 BD	17	2.29
1717 DA	1717 SRUE	19	2.29
1717 DC	29 BB	22	2.34
1717 SRU	1717 SRUE	19	2.29
1717 SRUE	1717 SRUE	19	2.29
1717 STE	1717 SRUE	19	2.29
1717 TP	29 BD	17	2.29
1717 TPU	1717 SRUE	19	2.30
1717 TPUE	1717 SRUE	19	2.29
1717 VRUE	1717 VRUE	22	2.30
1738 ≤ 110	1738	1	2.09
1738 GEBEDUR ≤ 110	1738	2	2.09
1738 ≥ 120	134	1	2.18

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
1738 GEBEDUR ≥ 120	134	2	2.18	1828 E	1828 E	22	2.34
1738 A ≤ 110	1738	1	2.09	1832 ST	UY 306 GS	7	2.31
1738 A ≥ 120	71 x 1	1	2.14	1844	134	1	2.18
1738 A FFG ≤ 110	1738 FFG	1	2.10	1844 FFG	134 FFG	1	2.19
1738 A FFG ≥ 120	71 x 1 FFG	1	2.14	1844 FG	134 FG	1	2.19
1738 A FG ≤ 110	1738 FG	1	2.10	1844 RS	134 RS	1	2.18
1738 A LR ≤ 110	1738 LR	4	2.11	1856	128 x 21	3	2.16
1738 A RS ≤ 110	1738 RS	1	2.10	1875	151 x 7	17	2.04
1738 AK ≤ 110	1738	1	2.09	1881	24 x 1	10	2.01
1738 AK ≥ 120	71 x 1	1	2.14	1885	B 26	5	2.02
1738 AK FFG ≤ 110	1738 FFG	1	2.10	1885 FG	B 26 FG	5	2.02
1738 AK FFG ≥ 120	71 x 1 FFG	1	2.14	1886	B 27	4	2.02
1738 AK FG ≤ 110	1738 FG	1	2.10	1886 DC	MY 1072	10	2.03
1738 AK RS ≤ 110	1738 RS	1	2.10	1886 DC FFG	MY 1072 FFG	10	2.03
1738 CL SAN 1	1738 CL SAN 1	4	2.15	1886 FFG	B 27 FFG	4	2.02
1738 D ≥ 120	134 D	4	2.19	1886 FG	B 27 FG	4	2.02
1738 DI ≥ 120	134 DI	4	2.20	1886 KK	DM x 13	5	2.03
1738 ER	1738 ER	9	2.10	1886 KK FFG	DM x 13 FFG	5	2.03
1738 ES SI	1738 KK FFG	2	2.15	1886 KK FG	DM x 13 FG	5	2.03
1738 FFG ≤ 110	1738 FFG	1	2.10	1886 R	B 27 R	4	2.02
1738 FFG GEBEDUR	1738 FFG	2	2.10	1886 RS	B 27 RS	4	2.02
1738 FFG ≥ 120	134 FFG	1	2.18	1886 SKL	B 27 SKL	4	2.02
1738 FG ≤ 110	1738 FG	1	2.10	SY 1901	134	1	2.18
1738 FG GEBEDUR	1738 FG	2	2.10	SY 1902	134 K	4	2.23
1738 FG ≥ 120	134 FG	1	2.19	SY 1903	134	1	2.18
1738 KK	1738 KK	2	2.15	SY 1905	134	1	2.18
1738 KK ER	1738 KK ER	7	2.11	1906	1906	1	2.25
1738 KK FFG	1738 KK FFG	2	2.15	1906 GEBEDUR	1906	2	2.25
1738 LL ≥ 120	134 LL	4	2.20	1906 FFG	1906 FFG	1	2.25
1738 LR ≤ 110	1738 LR	4	2.11	1906 FG	1906 FG	1	2.25
1738 LR ≥ 120	134 LR	4	2.20	1906 FG GEBEDUR	1906 FG	2	2.25
1738 P ≥ 120	134 P	4	2.21	1906 SKL	1906 SKL	1	2.25
1738 RS ≤ 110	1738 RS	1	2.10	SY 1906	1906	1	2.25
1738 RS ≥ 120	134 RS	1	2.18	SY 1906 SKL	1906 SKL	1	2.25
1738 SAN 10	1738 SAN 10	2	2.15	SY 1907	134 FG	1	2.19
1738 SD ≤ 110	1738 SD	3	2.10	SY 1910	134 K	4	2.23
1738 SD ≥ 120	134 SD	3	2.19	1911	108 x 1	3	2.34
SY 1740	128 x 22 NW	7	2.16	SY 1934	134 SKL	1	2.19
SY 1742	128 x 20 TRI	5	2.16	SY 1943	134	1	2.18
SY 1750	128 x 22 NW	7	2.16	1955	134	1	2.18
1778	142 x 5	5	2.06	SY 1955	134	1	2.18
1794 TRI	128 x 20 TRI	5	2.16	SY 1957	134 FG	1	2.19
1807	501 SC	4	2.08	1958	151 x 7	17	2.04
1807 A	503 SC	5	2.09	1963	1906 FFG	1	2.25
1807 D	501 SC	4	2.08	SY 1963	1906 FFG	1	2.25
1807 D FFG	505 SC	4	2.08	1965	1906 FG	1	2.25
1807 FBS	503 SC	5	2.09	SY 1965	1906 FG	1	2.25
1807 H	501 SC	4	2.08	SY 1969	135 x 39	2	2.25
1807 / 2	503 SC	5	2.09	1970 A SAN 1	1970 A SAN 1	23	2.62

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
UY 1970 A	UY 1970 A	22	2.62	SY 2075 ≤ 110	34 FG	1	2.12
UY 1970 G	UY 1970 G	22	2.62	2077	16 x 63 H	5	2.48
UY 1970 GS	UY 1970 G	22	2.62	SY 2078 ≤ 110	34 S	3	2.13
UY 1973	DR x 2	20	2.62	SY 2078 ≥ 120	134 S	4	2.21
UY 1975 G	UY 1975 G	21	2.63	SY 2081 ≤ 110	34 LL	3	2.13
UY 1975 GS	UY 1975 G	21	2.63	SY 2081 ≥ 120	134 LL	4	2.20
SY 1979	134 VR	4	2.22	SY 2082 ≤ 110	34 LL	3	2.13
SY 1981	134 D	4	2.19	SY 2082 ≥ 120	134 LL	4	2.20
SY 1984	134 LR	4	2.20	SY 2083 ≤ 110	34 P	3	2.13
1985	1985	2	2.34	SY 2083 ≥ 120	134 P	4	2.21
1985 GEBEDUR	1985	5	2.34	SY 2084 ≤ 110	34 D	3	2.12
1985 FFG	1985	2	2.34	SY 2084 ≥ 120	134 D	4	2.19
1985 FG	1985	2	2.34	SY 2085 ≤ 110	34 P	3	2.13
1985 R	1985 R	2	2.34	SY 2085 ≥ 120	134 P	4	2.21
1985 SAN 1	175 x 1 FS	6	2.34	SY 2087 ≤ 110	34 LR	3	2.13
1986	2018	3	2.49	SY 2087 ≥ 120	134 LR	4	2.20
1986 FFG	2018	3	2.49	SY 2088 ≤ 110	34 LL	3	2.13
1986 FG	2018	3	2.49	SY 2088 ≥ 120	134 LL	4	2.20
1987 ≤ 125	29 LSS	3	2.54	SY 2089 ≥ 120	134 VR	4	2.21
1987 ≥ 130	2091	3	2.53	2090 ST	UY 306 GS	7	2.31
1987 FFG ≤ 125	29 LSS	3	2.54	2090 T	UY 306 GS	7	2.31
1987 FFG ≥ 130	2091	3	2.53	SY 2090 ≤ 110	34 S	3	2.13
1987 FG ≤ 125	29 LSS	3	2.54	SY 2090 ≥ 120	134 S	4	2.21
1987 FG ≥ 130	2091	3	2.53	2091	2091	3	2.54
SY 1988	134 P	4	2.21	2091 GEBEDUR	2091	6	2.54
SY 1989	134 DI	4	2.20	2091 FFG	2091	3	2.54
SY 1991	134 LL	4	2.20	2091 FG	2091	3	2.54
SY 1992	134 S	4	2.21	2091 K	2091	3	2.54
SY 1995	134 SD	3	2.19	2091 KK	2091 KK	5	2.54
2000 A-38	AMF 2000 A-38	24	2.01	2091 KK FFG	2091 KK	5	2.54
AMF 2000 A-38	AMF 2000 A-38	24	2.01	2091 KK FG	2091 KK	5	2.54
2000 A-49	AMF 2000 A-50	24	2.01	2091 LGK	2091	3	2.54
AMF 2000 A-49	AMF 2000 A-50	24	2.01	SY 2091 ≤ 110	34 P	3	2.13
2000 A-50	AMF 2000 A-50	24	2.01	SY 2091 ≥ 120	134 P	4	2.21
AMF 2000 A-50	AMF 2000 A-50	24	2.01	2092 T	UY 306 GS	7	2.31
2011 PCL ≤ 110	34 PCL	3	2.14	SY 2092 ≥ 120	134 DI	4	2.20
2018	2018	3	2.49	SY 2097 ≥ 120	134 SD	3	2.19
2018 FFG	2018	3	2.49	2134 - 35	134 - 35	3	2.35
2018 FG	2018	3	2.49	2134 - 35 CL	134 - 35 CL	6	2.37
2019	561 - 1	7	2.29	2134 - 35 CR	134 - 35 CR	6	2.37
2020	561 - 2	7	2.29	2134 - 35 D	134 - 35 D	4	2.35
SY 2034	134 D	4	2.19	2134 - 35 DH	134 - 35 DH	4	2.36
SY 2047 ≤ 110	34	1	2.12	2134 - 35 DU KK	2134 - 35 DU KK	4	2.37
SY 2047 ≥ 120	134	1	2.18	2134 - 35 FFG	134 - 35 FFG	3	2.35
2055	UY 113 GS	8	2.32	2134 - 35 FG	134 - 35 FG	3	2.35
SY 2055 ≤ 110	1738	1	2.09	2134 - 35 G	134 - 35 G	3	2.35
SY 2055 ≥ 120	134	1	2.18	2134 - 35 K	134 - 35 K	4	2.36
2060	24 x 1	10	2.01	2134 - 35 KK	2134 - 35 DU KK	4	2.37
SY 2070 ≤ 110	34	1	2.12	2134 - 35 LL	134 - 35 LL	4	2.36

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2134 - 35 LR	134 - 35 LR	4	2.36
2134 - 35 PCL	134 - 35 PCL	6	2.37
2134 - 35 PCR	134 - 35 PCR	6	2.37
2134 - 35 RS	134 - 35 RS	3	2.35
2134 - 35 S	134 - 35 S	4	2.36
2134 - 35 SD	134 - 35 SD	5	2.36
2134 - 35 SKL	134 - 35 SKL	3	2.35
2134 - 35 VR	134 - 35 VR	4	2.36
2134 - 85	2134 - 85	4	2.37
2134 - 85 CL	2134 - 85 CL	7	2.37
2134 - 85 CR	2134 - 85 CR	7	2.37
2134 - 85 FFG	2134 - 85 FFG	4	2.37
2140 BE	29 BL	19	2.48
2140 BE FFG	29 BL FFG	19	2.48
2140 TP	29 BL	19	2.48
2140 TP FFG	29 BL FFG	19	2.48
SY 2161 ≤ 110	34 D	3	2.12
2167	135 x 17	2	2.40
SY 2170 ≤ 110	34 CL	3	2.15
SY 2174 ≤ 110	34 PCL	3	2.14
SY 2174 ≥ 120	134 PCL	4	2.24
SY 2175	134 PCL	4	2.24
SY 2178 ≤ 110	34 PCL	3	2.14
SY 2178 ≥ 120	134 PCL	4	2.24
SY 2179	16 x 246 SD	5	2.13
2186 TP	29 BK	19	2.29
SY 2205 ≤ 110	34 PCL	3	2.14
SY 2205 ≥ 120	134 PCL	4	2.24
SY 2220 ≤ 110	16 x 6	3	2.14
SY 2220 ≥ 120	134 PCR	4	2.23
SY 2236 ≥ 150	134 PCR	4	2.24
SY 2240 ≥ 150	134 PCR	4	2.24
SY 2254 ≤ 110	1738	1	2.09
SY 2256 ≤ 110	1738 FG	1	2.10
SY 2256 ≥ 120	134 FG	1	2.19
SY 2270 ≤ 110	1738	1	2.09
SY 2270 ≥ 120	134	1	2.18
SY 2276 ≤ 110	1738	1	2.09
SY 2279 ≤ 110	1738 FG	1	2.10
SY 2279 ≥ 120	134 FG	1	2.19
SY 2300 ≥ 120	134 LL	4	2.20
SY 2301 ≥ 120	134 DI	4	2.20
SY 2303 ≥ 120	134 P	4	2.21
2331	490	3	2.56
2331 F	490 F	9	2.56
2331 F LG	2331 F LG	10	2.62
2331 FFG	490 FFG	3	2.56
2331 FL	490 F	9	2.56
2353	328 FL-E	13	2.57

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
SY 2538	UY 158 GJS	18	2.28
SY 2550	46 x 1	6	2.29
2669 E	1669 E EO	19	2.39
2669 E EO	1669 E EO	19	2.39
2717	1717 SRUE	19	2.29
SY 2776	149 x 7	6	2.33
SY 2798	149 x 7 FG	6	2.33
SY 2851	1985	2	2.34
SY 2852	1985	2	2.34
2881	16 x 63 H	5	2.48
3001 ≤ 110	UY 121 GS	4	2.46
3001 ≥ 120	1280 KSP	4	2.43
SY 3006	108 x 3	3	2.34
UY 3026 GS	B 26	5	2.02
SY 3027	31 x 1	4	2.34
UY 3027 GHS	B 27 FG	4	2.02
UY 3027 GHS FFG	B 27 FFG	4	2.02
UY 3027 GS	B 27 R	4	2.02
UY 3029 GHS	B 29 FFG	6	2.03
UY 3029 GHS FG	B 29 FG	6	2.03
UY 3029 GS	B 29	6	2.03
SY 3048	108 x 1	3	2.34
SY 3049	108 x 3	3	2.34
3140 TP	29 BL	19	2.48
3140 TP FFG	29 BL FFG	19	2.48
3201	68 x 5	3	2.16
3201 FFG	68 x 5 FFG	3	2.16
3202 CR	3202 CR	7	2.16
3207 CR	3207 CR	4	2.14
3207 CR FFG	3207 CR RG	4	2.14
3207 CR RG	3207 CR RG	4	2.14
3217	108 x 3	3	2.34
3217 CR	3217 CR	7	2.34
SY 3241	805	9	2.38
SY 3260	62 x 57	8	2.38
SY 3301	126 x 3	3	2.40
SY 3303	126 x 3	3	2.40
SY 3305	126 x 3	3	2.40
3320 GR	FD 5	14	2.45
SY 3351	135 x 17 SD	4	2.41
SY 3352	135 x 17 FFG	2	2.40
SY 3354	135 x 17	2	2.40
SY 3355	135 x 17	2	2.40
SY 3356	332	2	2.40
SY 3357	135 x 17	2	2.40
SY 3360	135 x 17 FG	2	2.41
SY 3370	135 x 16 TW	6	2.41
SY 3371	135 x 16 NW	6	2.41
SY 3378	135 x 16 DIA	6	2.41

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
SY 3379	135 x 16 TRI	6	2.41	4463 KK	4463 KK	7	2.27
SY 3381	135 x 16 NW	6	2.41	4463 KK D	4463 KK D	8	2.27
SY 3383	135 x 16 RTW	6	2.41	4463 KK S	4463 KK S	8	2.27
SY 3506	UY 121 GS	4	2.46	4463 KK SD	4463 KK SD	9	2.27
SY 3508 ≤ 110	UY 121 GS	4	2.46	4463 - 35	4463 - 35	7	2.43
SY 3508 ≥ 120	1280 KSP	4	2.43	4463 - 35 KK	4463 - 35	7	2.43
SY 3510 ≤ 110	UY 121 GS	4	2.46	4463 - 35 R	4463 - 35 R	7	2.43
SY 3510 ≥ 120	1280 KSP	4	2.43	4463 - 35 SD	4463 - 35 SD	9	2.43
SY 3516 ≤ 110	62 x 43	7	2.43	SY 4506	126 x 11	9	2.54
SY 3516 ≥ 120	UY 130 GS	8	2.44	SY 4531	2091	3	2.54
SY 3518 ≤ 110	62 x 43	7	2.43	SY 4533 ≤ 125	29 LSS	3	2.54
SY 3518 ≥ 120	UY 130 GS	8	2.44	SY 4533 ≥ 130	2091	3	2.53
3551	3551	21	2.38	SY 4536	2091	3	2.54
SY 3648	UY 128 GS	7	2.43	SY 4538 ≤ 125	29 LSS	3	2.54
SY 3650	UY 128 GAS	7	2.42	SY 4538 ≥ 130	2091	3	2.53
SY 3651	UY 128 GAS	7	2.42	SY 4539	2091	3	2.54
SY 3652	UY 128 GBS FG	7	2.42	4669 E	4669 E EO	22	2.39
SY 3653	UY 128 GBS FG	7	2.42	4669 E EO	4669 E EO	22	2.39
3669 E	1669 E EO	19	2.39	4671 E EO	4671 E EO	22	2.51
3669 E EO	1669 E EO	19	2.39	SY 4804	7 x 23	14	2.61
3669 R	1669 E EO	19	2.39	4900	UY 113 GS	8	2.32
SY 3690	251	17	2.47	SY 4950 ≤ 140	328	9	2.57
SYST 3717	1717 SRUE	19	2.29	SY 4950 150-190	328	9	2.58
SY 3741	332	2	2.40	SY 4950 ≥ 200	328	9	2.59
SY 3750	332 LL	5	2.40	SY 4954	328 FL-E	13	2.57
SY 3757	332 LR	5	2.40	SY 4960 ≤ 140	328 LL	11	2.57
SY 3771 ≥ 120	332	2	2.40	SY 4960 150-190	328 LL	11	2.58
SY 3861	16 x 63 H	5	2.48	SY 4960 ≥ 200	328 LL	11	2.59
SY 3865	16 x 63 H	5	2.48	SY 4961 ≤ 140	328 LR	11	2.57
SY 3866	16 x 63 H	5	2.48	SY 4961 150-190	328 LR	11	2.58
SY 4051	2018	3	2.49	SY 4961 ≥ 200	328 LR	11	2.59
SY 4052	2018	3	2.49	SY 4962	328 DI	12	2.59
EA 4080	UY 36211 A	4	2.01	SY 4968 150-190	328 S	12	2.58
SY 4107 ≤ 110	149 x 5	6	2.49	SY 4968 ≥ 200	328 S	12	2.60
SY 4107 ≥ 120	62 x 45	6	2.49	SY 4971	328 P	12	2.59
SY 4110 ≤ 110	149 x 5	6	2.48	SY 5011 160-180	216 x 1	15	2.59
SY 4110 ≥ 120	62 x 45	6	2.49	SY 5011 ≥ 200	216 x 1	15	2.60
SY 4112	62 x 59	9	2.49	SY 5021	216 x 7	21	2.60
SY 4116 ≤ 110	149 x 5	6	2.49	SY 5060	DR x 2	20	2.62
SY 4116 ≥ 120	62 x 45	6	2.49	SY 5068	UY 1970 G	22	2.62
4117	4117	23	2.06	SY 5210	794 H	12	2.63
4118	4118	23	2.09	SY 5211	794 H	12	2.63
SY 4151	149 x 5	6	2.49	SY 5213	794 H	12	2.63
SY 4261	UY 143 GS	11	2.50	5250	UY 113 GS	8	2.32
4313 - 2	Myers No 2	14	2.47	SY 5253	794 LR	15	2.63
4314 - 5	Myers No 5	14	2.38	SY 5260	794 D	15	2.64
4315 - 8	Myers No 8	17	2.54	5463 - 35	5463 - 35	9	2.45
4317 - 6	Myers No 6	17	2.38	5620	5620	3	2.08
SY 4401	129 x 1	6	2.53	5640	62 x 57	8	2.38

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
5640 D	5640 D	9	2.39	SY 6759	≥ 120 134	1	2.18
5640 FFG	62 x 57 FFG	8	2.39	SY 6760	≤ 110 134 KK LR	4	2.23
5640 FG	62 x 57 FG	8	2.39	SY 6760	≥ 120 134 LR	4	2.20
SY 6050	64	13	2.02	SY 6761	≤ 110 134 KK PCL	4	2.24
SY 6110	B 26	5	2.02	SY 6761	≥ 120 134 PCL	4	2.24
SY 6112	B 26 FG	5	2.02	SY 6762	≥ 120 134 PCR	4	2.23
SY 6120	B 27	4	2.02	SY 6763	≥ 120 134 LL CR	5	2.23
SY 6121	B 27 FM - B	14	2.03	SY 6765	≥ 120 134 P	4	2.21
SY 6125	B 29	6	2.03	SY 6777	134 CL	4	2.24
SY 6126	B 29 FFG	6	2.03	SY 6778	134 CR	4	2.23
SY 6127	B 29 FG	6	2.03	SY 6780	UY 150 GS	6	2.27
SY 6175	MY 1072	10	2.03	SY 6781	UY 150 GS	6	2.27
SY 6176	MY 1072 FFG	10	2.03	SY 6782	134 LL CR	5	2.23
SY 6200	151 x 7	17	2.04	SY 6783	134 RS	1	2.18
SY 6235	UY 183 GXS	5	2.05	SY 6787	134 FFG	1	2.19
SY 6236	UY 183 GYS	5	2.05	SY 6788	134 FG	1	2.19
SY 6302	UY 162 SDS	20	2.05	SY 6790	134	1	2.18
SY 6305	UY 162 SAS R	17	2.05	SY 6791	134 LR	4	2.20
SY 6310	UY 162 SAS R	17	2.05	SY 6792	134 S	4	2.21
SY 6315	Bonis H	7	2.05	SY 6793	134 PCL	4	2.24
SY 6405	5620	3	2.08	SY 6794	134 PCR	4	2.24
SY 6430	UY 154 GBS	20	2.06	SY 6795	134 K	4	2.23
SY 6431	UY 154 GFS	20	2.06	SY 6796	134 EL	7	2.19
SY 6432	UY 154 GDS	20	2.06	SY 6797	134 ER	7	2.19
SY 6437	UY 8454 GHS	20	2.07	SY 6799	134 PCL	4	2.24
SY 6438	UY 8454 GHS FG	20	2.07	SY 6800	134 PCR	4	2.24
SY 6480	501 SC	4	2.08	SY 6801	134 P	4	2.21
SY 6481	505 SC	4	2.08	SY 6802	134 S	4	2.21
SY 6482	750 SC	7	2.08	SY 6804	134 VR	4	2.22
SY 6483	751 SC	7	2.08	SY 6805	134 LL	4	2.20
SY 6484	503 SC	5	2.09	SY 6806	134 LR	4	2.20
SY 6485	750 SC FG	7	2.08	SY 6807	134 D	4	2.19
SY 6520	459 R	5	2.09	SY 6808	265 - 5	4	2.26
SY 6630	≤ 110 34	1	2.12	SY 6809	265 - 5	4	2.26
SY 6630	≥ 120 287	1	2.11	SY 6811	134 LL	4	2.20
SY 6632	≤ 110 34 LR	3	2.13	SY 6820	UY 161 GS	21	2.28
SY 6632	≥ 120 287 LR	3	2.11	SY 6830	≤ 110 34	1	2.12
SY 6633	287 WKH	3	2.11	SY 6830	120-140 34	1	2.16
SY 6634	287 WKH	3	2.11	SY 6830	≥ 150 134	1	2.18
SY 6635	≤ 110 34 P	3	2.13	SY 6831	120-140 34 LL	3	2.17
SY 6636	287 WKH FFG	3	2.12	SY 6832	120-140 34 LR	3	2.17
SY 6637	287 WKH FG	3	2.12	SY 6836	120-140 34 D	3	2.17
SY 6641	3207 CR	4	2.14	SY 6840	120-140 34 S	3	2.17
SY 6642	3207 CR RG	4	2.14	SY 6880	≤ 110 1738 ER	9	2.10
SY 6733	≥ 150 134 PCL	4	2.24	SY 6881	1738 KK ER	7	2.11
SY 6750	B 155	8	2.09	SY 6935	UY 180 GYS	5	2.28
SY 6758	≤ 110 134 KK S	4	2.23	SY 6937	UY 180 GVS	5	2.28
SY 6758	≥ 120 134 S	4	2.21	SY 6939	UY 180 GWS	5	2.28
SY 6759	≤ 110 134 KK	1	2.22	SY 6960	150	7	2.28

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
SY 6985	561 - 1	7	2.29	SY 7238	134 - 35 FG	3	2.35
SY 6986	561 - 2	7	2.29	SY 7240	4463 - 35	7	2.43
SY 7030	29 BD	17	2.29	SY 7242	971 B1	11	2.45
SY 7031	1717 SRUE	19	2.29	SY 7243	4463 - 35 SD	9	2.43
SY 7032	29 BD	17	2.29	SY 7245	5463 - 35	9	2.45
SY 7033	29 BK	19	2.29	SY 7253	251 EU	19	2.39
SY 7034	1717 SRUE	19	2.29	SY 7255	MY 1014 B	8	2.40
SY 7035	29 BA	17	2.29	SY 7256	MY 1014 B	8	2.40
SY 7040	459 LG	7	2.33	SY 7257	MY 1014 C	5	2.39
SY 7045	B 64	4	2.31	SY 7258	MY 1014 D	5	2.39
SY 7046	B 64 FFG	4	2.31	SY 7259	MY 1014 B FFG	8	2.40
SY 7047	B 64 FG	4	2.31	SY 7270	1280 KSP	4	2.43
SY 7060	UY 118 GAS	9	2.30	SY 7279 ≤ 110	UY 121 GS	4	2.46
SY 7061	UY 118 GBS	8	2.30	SY 7279 ≥ 120	1280 KSP	4	2.43
SY 7062	UY 118 GKS	9	2.30	SY 7283	UY 121 GBS	4	2.41
SY 7065	UY 106 GS	5	2.31	SY 7285	UY 128 GAS	7	2.42
SY 7068	UY 106 GS	5	2.31	SY 7292	UY 128 GAS	7	2.42
SY 7069	UY 106 GHS	5	2.31	SY 7295	UY 128 GLS	7	2.42
SY 7070	UY 203 GS	10	2.32	SY 7298	UY 130 GS	8	2.44
SY 7071	UY 204 GS	10	2.32	SY 7299	UY 130 GHS	8	2.44
SY 7080	UY 108 GS	7	2.33	SY 7302	UY 133 GS	9	2.45
SY 7081	UY 108 GHS	7	2.33	SY 7320	FD 5	14	2.45
SY 7083	UY 109 GS	7	2.31	SY 7330	470 KA	8	2.45
SY 7086	UY 110 GAS	8	2.31	SY 7360	1669 E EO	19	2.39
SY 7090	UY 113 GS	8	2.32	SY 7361	1669 E EO	19	2.39
SY 7093	UY 113 GHS	8	2.32	SY 7380	B 63	4	2.44
SY 7095	UY 306 GS	7	2.31	SY 7381	B 63 FFG	4	2.44
SY 7098	UY 506 GS	7	2.31	SY 7394	29 BL	19	2.48
SY 7140	UY 113 GS	8	2.32	SY 7395	29 BL	19	2.48
SY 7152	934	6	2.33	SY 7396	29 BL	19	2.48
SY 7160	29 BB	22	2.34	SY 7425	251 EL	17	2.48
SY 7170	108 x 3	3	2.34	SY 7430	81	5	2.49
SY 7175	3217 CR	7	2.34	SY 7437	UY 943 GS	13	2.50
SY 7185	UY 163 GAS	7	2.34	SY 7440	506 LG	9	2.49
SY 7210	505 LG	5	2.35	SY 7441	506 Q LG	11	2.49
SY 7215	134 - 35 CL	6	2.37	SY 7445	UY 9854 GS	26	2.50
SY 7217	2134 - 85	4	2.37	SY 7460	1671 E EO	19	2.50
SY 7220	134 - 35 CR	6	2.37	SY 7465	UY 943 GS	13	2.50
SY 7223	134 - 35 G	3	2.35	SY 7475	UY 147 GS	8	2.51
SY 7225	134 - 35	3	2.35	SY 7490	UY 9858 GS	23	2.51
SY 7226	134 - 35 K	4	2.36	SY 7505	854 S	6	2.51
SY 7227	134 - 35 LR	4	2.36	SY 7506	854 S FG	6	2.51
SY 7228	134 - 35 S	4	2.36	SY 7508	854 S TR	6	2.51
SY 7229	134 - 35 VR	4	2.36	SY 7525	110 S	6	2.52
SY 7230	134 - 35 D	4	2.36	SY 7527	110 S FG	6	2.51
SY 7231	134 - 35 PCL	6	2.37	SY 7528	110 S TR	6	2.52
SY 7232	134 - 35 PCR	6	2.37	SY 7530	0854	6	2.52
SY 7235	805 LR	10	2.38	SY 7545	367 S LG	10	2.52
SY 7237	134 - 35 LL	4	2.36	SY 7550 ≤ 130	367 S	10	2.52

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
SY 7550 ≥ 140	367 S	10	2.52
SY 7555	190	4	2.52
SY 7556	190 K	4	2.52
SY 7570	92 x 27 DIA	14	2.54
SY 7585	2091 KK	5	2.54
SY 7586	2091 KK	5	2.54
SY 7587	2091 KK	5	2.54
SY 7590	367 S LG	10	2.54
SY 7595	110 S TOP	6	2.54
SY 7600	332 LG	3	2.55
SY 7602	332 LGH KSP	4	2.55
SY 7604	88	8	2.55
SY 7605	88 H	3	2.55
SY 7606	88 HK	5	2.55
SY 7607	88 LR	8	2.55
SY 7610	175 H	3	2.55
SY 7615	215 AH	4	2.55
SY 7616	215 AH FFG	4	2.55
SY 7660	490	3	2.56
SY 7661	490 F	9	2.56
SY 7680 90-120	604 FE	25	2.56
SY 7700	29 ELS	6	2.57
SY 7707	752	15	2.61
SY 7709	950 A	9	2.62
SY 7710	950 SC	9	2.61
SY 7715	UY 1975 G	21	2.63
SY 7717	UY 9848 GS	21	2.63
SY 7718	UY 9844 GA	22	2.62
SY 7873	AMF 1032 B1-49	24	2.01
SY 7874	AMF 1032 B1-36	24	2.01
SY 7875	AMF 1032 B1-38	24	2.01
SY 7876	AMF 2000 A-38	24	2.01
SY 7877	AMF 2000 A-50	24	2.01
SY 7878	AMF 2000 A-50	24	2.01
UY 8002	UY 106 GS	5	2.31
UY 8021 GHS	UY 163 GHS	7	2.35
UY 8021 GS	UY 163 GAS	7	2.34
UY 8023 GS	MY 1014 B	8	2.40
SY 8026 ≤ 110	1738 FFG	1	2.10
SY 8026 ≥ 120	71 x 1 FFG	1	2.14
SY 8047	62 x 57 FG	8	2.39
SY 8071	134 EL	7	2.19
SY 8112	251 FFG	17	2.47
SY 8113	251 EL FFG	17	2.48
SY 8119 130+150	604 FE	25	2.61
SY 8120 160	604 FE	25	2.62
SY 8122	438	4	2.25
SY 8123	438 FFG	4	2.25
SY 8126	134 - 35 RS	3	2.35

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
SY 8128	C 100 S	24	2.64
SY 8133	UY 924 GS	9	2.38
SY 8135	3202 CR	7	2.16
SY 8138	2018	3	2.49
SY 8147	328 A	9	2.59
SY 8148	4463 KK D	8	2.27
SY 8160	SY 8160	15	2.57
SY 8164	438 LR	6	2.25
SY 8168	SY 8168	14	2.63
8169	8169	6	2.42
SY 8169	8169	6	2.42
SY 8234	149 x 7 FG	6	2.33
UY 8454 GAS	UY 8454 GS	20	2.07
UY 8454 GHS	UY 8454 GHS	20	2.07
UY 8454 GHS FG	UY 8454 GHS FG	20	2.07
UY 8454 GS	UY 8454 GS	20	2.07
UY 8455 GS	UY 8455 GS	20	2.07
UY 8455 SAN 1	UY 8455 SAN 1	20	2.07
UY 8456 GS	UY 8456 GS	20	2.07
UY 8456 SAN 1	UY 8456 SAN 1	20	2.07
UY 8461 GHS	UY 8461 GS	8	2.45
UY 8461 GS	UY 8461 GS	8	2.45
UY 8462 GS	UY 203 GS	10	2.32
UY 8463 GS	UY 204 GS	10	2.32
SY 8503	134 FFG	1	2.19
SY 8522	134 FFG	1	2.19
SY 8523	81 x 1 FFG	4	2.04
SY 8526	1985	2	2.34
SY 8542	135 x 1 FFG	2	2.08
SY 8566	149 x 7 FFG	6	2.33
SY 8585	UY 121 GHS	4	2.46
SY 8592	438 FG	4	2.25
SY 8608	UY 36211	4	2.01
SY 8611 ≥ 120	134 SD	3	2.19
SY 8614	62 x 57 FFG	8	2.39
SY 8619	1128 FFG	1	2.05
SY 8620	151 x 7 FFG	17	2.04
SY 8623 ≥ 110	149 x 7 FFG	6	2.33
SY 8624 ≤ 110	1738 FFG	1	2.10
SY 8624 ≥ 120	134 FFG	1	2.18
SY 8628 ≤ 110	1738 FFG	1	2.10
SY 8628 ≥ 120	134 FFG	1	2.18
SY 8631	134 EM	7	2.19
SY 8632	1128 FFG	1	2.05
SY 8636 ≤ 110	34 FG	1	2.12
SY 8640	UY 128 GBS	7	2.42
SY 8643 ≤ 110	1738 FG	1	2.10
SY 8649	B 27 FG	4	2.02
SY 8663	134 RS	1	2.18

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
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

Sistema de agujas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
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
Al 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

Sistema de agujas Sistemas das agulhas		Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agujas Sistemas das agulhas		Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
DB x A20	≥ 120	287	1	2.11	DC x C47		B 27 FM - B	14	2.03
DB x 95	≤ 110	1738	1	2.09	DC x 1072		MY 1072	10	2.03
DB x 95	≥ 120	71 x 1	1	2.14	DC x 1072 FFG		MY 1072 FFG	10	2.03
DB x 95 FFG	≤ 110	1738 FFG	1	2.10	DD x 1	≤ 140	328	9	2.57
DB x 95 FFG	≥ 120	71 x 1 FFG	1	2.14	DD x 1	150-190	328	9	2.58
DB x 95 FG	≤ 110	1738 FG	1	2.10	DD x 1	≥ 200	328	9	2.59
DB x 130	≤ 110	34	1	2.12	DD x 2	≤ 140	328 LL	11	2.57
DB x 130 B	≤ 110	34	1	2.12	DD x 2	150-190	328 LL	11	2.58
DB x 231	≤ 110	1738	1	2.09	DD x 2	≥ 200	328 LL	11	2.59
DB x 231 FFG	≤ 110	1738 FFG	1	2.10	DD x 2 LR	≤ 140	328 LR	11	2.57
DB x 231 FG	≤ 110	1738 FG	1	2.10	DD x 2 LR	150-190	328 LR	11	2.58
DB x 257	≤ 110	1738	1	2.09	DD x 2 LR	≥ 200	328 LR	11	2.59
DB x 257	≥ 120	134	1	2.18	DD x 328 A		328 A	9	2.59
DB x 257 FFG	≤ 110	1738 FFG	1	2.10	DF x F19	≥ 120	134 S	4	2.21
DB x 257 FFG	≥ 120	134 FFG	1	2.18	DH x 1		24 x 1	10	2.01
DB x 257 FG	≤ 110	1738 FG	1	2.10	DI x 1		332	2	2.40
DB x 257 FG	≥ 120	134 FG	1	2.19	DI x 3		332	2	2.40
DB x 257 RS	≤ 110	1738 RS	1	2.10	DI x 4		332 LL	5	2.40
DB x 257 RS	≥ 120	134 RS	1	2.18	DI x 4 LR		332 LR	5	2.40
DB x 257 SD	≤ 110	1738 SD	3	2.10	DL x 1	≤ 110	1738	1	2.09
DB x 257 SD	≥ 120	134 SD	3	2.19	DL x 1	≥ 120	71 x 1	1	2.14
DB x 287 WKH		287 WKH	3	2.11	DL x 1 FFG	≤ 110	1738 FFG	1	2.10
DB x 287 WKH FFG		287 WKH FFG	3	2.12	DL x 1 FFG	≥ 120	71 x 1 FFG	1	2.14
DB x 287 WKH FG		287 WKH FG	3	2.12	DL x 1 FG	≤ 110	1738 FG	1	2.10
DB x 287 WKH RG		287 WKH RG	3	2.11	DL x 5		108 x 3	3	2.34
DB x 1738	≤ 110	1738	1	2.09	DL x 95		71 x 1	1	2.14
DB x 1738	≥ 120	134	1	2.18	DL x 95 FFG		71 x 1 FFG	1	2.14
DB x 1738 FFG	≤ 110	1738 FFG	1	2.10	DM x 1		81 x 1	4	2.04
DB x 1738 FFG	≥ 120	134 FFG	1	2.18	DM x 1 FFG		81 x 1 FFG	4	2.04
DB x 1738 FG	≤ 110	1738 FG	1	2.10	DM x 1 FG		81 x 1 FG	4	2.04
DB x 1738 FG	≥ 120	134 FG	1	2.19	DM x 13		DM x 13	5	2.03
DB x 1738 KK ER		1738 KK ER	7	2.11	DM x 13 FFG		DM x 13 FFG	5	2.03
DB x 1738 RS	≤ 110	1738 RS	1	2.10	DM x 13 FG		DM x 13 FG	5	2.03
DB x 1738 RS	≥ 120	134 RS	1	2.18	DN x 1		UY 143 GS	11	2.49
DC x 1		81 x 1	4	2.04	DO x 5		142 x 5	5	2.06
DC x 1 F		DC x 1 F	6	2.04	DO x 558		558	6	2.27
DC x 1 F FFG		DC x 1 F FFG	6	2.04	DP x 1		135 x 1	2	2.08
DC x 1 FFG		81 x 1 FFG	4	2.04	DP x 1 FFG		135 x 1 FFG	2	2.08
DC x 1 FG		81 x 1 FG	4	2.04	DP x 1 FG		135 x 1 FG	2	2.08
DC x 1 KN		81 x 1 SAN 10	5	2.04	DP x 5		134	1	2.18
DC x N17		MY 1023 A SAN 1	4	2.03	DP x 5 FFG		134 FFG	1	2.19
DC x 27		B 27	4	2.02	DP x 5 FG		134 FG	1	2.19
DC x 27 FFG		B 27 FFG	4	2.02	DP x 5 KN		134 SAN 10	2	2.26
DC x 27 FG		B 27 FG	4	2.02	DP x 5 KN FG		134 SAN 10 FG	2	2.27
DC x 27 KN		B 27 SAN 10	5	2.04	DP x 5 RS		134 RS	1	2.18
DC x 27 R		B 27 R	4	2.02	DP x 5 SAN 6		134 SAN 6	2	2.27
DC x 27 RS		B 27 RS	4	2.02	DP x 5 SKL		134 SKL	1	2.19
DC x 27 SKL		B 27 SKL	4	2.02	DP x 7		134	1	2.18
DC x C46		B 27 FM - B	14	2.03	DP x 7 FFG		134 FFG	1	2.19

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
DP x 7 FG	134 FG	1	2.19
DP x 7 RS	134 RS	1	2.18
DP x 7 SKL	134 SKL	1	2.19
DP x 8	134 DI	4	2.20
DP x P9	134 ER	7	2.19
DP x P10	134 EL	7	2.19
DP x 16	135 x 16 NW	6	2.41
DP x 16 D	185 x 16 TRI	6	2.41
DP x 16 LR	135 x 16 RTW	6	2.41
DP x 16 N	135 x 16 TW	6	2.41
DP x 17	135 x 17	2	2.40
DP x 17 FFG	135 x 17 FFG	2	2.40
DP x 17 FG	135 x 17 FG	2	2.41
DP x 17 SAN 6	135 x 17 SAN 6	3	2.41
DP x 17 SD	135 x 17 SD	4	2.41
DP x F19 ≤ 110	134 KK S	4	2.23
DP x 25	134	1	2.18
DP x 25 FFG	134 FFG	1	2.19
DP x 25 FG	134 FG	1	2.19
DP x 35	134 - 35	3	2.35
DP x 35 CL	134 - 35 CL	6	2.37
DP x 35 CR	134 - 35 CR	6	2.37
DP x 35 D	134 - 35 D	4	2.36
DP x 35 FFG	134 - 35 FFG	3	2.35
DP x 35 FG	134 - 35 FG	3	2.35
DP x 35 G	134 - 35 G	3	2.35
DP x 35 K	134 - 35 K	4	2.36
DP x 35 LL	134 - 35 LL	4	2.36
DP x 35 LR	134 - 35 LR	4	2.36
DP x 35 PCL	134 - 35 PCL	6	2.37
DP x 35 PCR	134 - 35 PCR	6	2.37
DP x 35 RS	134 - 35 RS	3	2.35
DP x 35 S	134 - 35 S	4	2.36
DP x 35 SD	134 - 35 SD	5	2.36
DP x 35 SKL	134 - 35 SKL	3	2.35
DP x 35 VR	134 - 35 VR	4	2.36
DP x 39	135 x 39	2	2.25
DP x 65	134	1	2.18
DP x 85	2134 - 85	4	2.37
DP x 85 FFG	2134 - 85 FFG	4	2.37
DP x 134	134	1	2.18
DP x 134 FFG	134 FFG	1	2.19
DP x 134 FG	134 FG	1	2.19
DP x 265	265 - 50 EO	5	2.26
DP x 265 FFG	265 - 50 EO FFG	5	2.26
DP x 265 FG	265 - 50 EO FG	5	2.26
DP x 438	438	4	2.25
DP x 438 FFG	438 FFG	4	2.25
DP x 438 FG	438 FG	4	2.25

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
DP x 438 KK ≤ 110	438 KK	4	2.26
DP x 438 KK 120	438	4	2.25
DP x 438 LR	438 LR	6	2.25
DP x 2655	265 - 5	4	2.26
DP x 2655 EO	265 - 5	4	2.26
DR x 2	DR x 2	20	2.62
DR x 4	UY 1970 G	22	2.62
DU x 1	88	8	2.55
DU x 2 LR	88 LR	8	2.55
DV x 1	DV x 1	4	2.47
DV x 1 FFG	DV x 1 FFG	4	2.47
DV x 1 KN	1280 KSP SAN 10	5	2.47
DV x G9	UY 128 GAS	7	2.42
DV x G9 FG	UY 128 GBS FG	7	2.42
DV x 21 ≤ 110	UY 121 GS	4	2.46
DV x 21 ≥ 120	1280 KSP	4	2.43
DV x 21 FFG	UY 121 GHS	4	2.46
DV - K28	B 63	4	2.44
DV - K28 R	B 63 R	4	2.44
DV x 43	62 x 43	7	2.43
DV x 47 ≤ 110	62 x 43	7	2.43
DV x 47 ≥ 120	UY 130 GS	8	2.44
DV x 47 R ≥ 120	UY 130 GS R	8	2.44
DV x 57	62 x 57	8	2.38
DV x 57 FFG	62 x 57 FFG	8	2.39
DV x 57 FG	62 x 57 FG	8	2.39
DV x 57 KN	62 x 57 SAN 10	9	2.39
DV x 57 SAN 6	62 x 57 SAN 6	9	2.39
DV x 59	62 x 59	9	2.49
DV x 63	B 63	4	2.44
DV x 63 FFG	B 63 FFG	4	2.44
DV x 63 FG	B 63 FG	4	2.44
DV x 63 KN	B 63 SAN 10	5	2.46
DV x 63 KN FG	B 63 SAN 10 FG	5	2.46
DV x 63 R	B 63 R	4	2.44
DV x 63 SKL	B 63 SKL	4	2.44
DV x 600	550 QMA	15	2.62
DV x 971 B	971 B1	11	2.45
DY x 1	794 H	12	2.63
DY x 2 LR	794 LR	15	2.63
DY x 3	794 H	12	2.63
DY x 3 D	794 D	15	2.64
DY x 3 FFG	794 H FFG	12	2.63
DY x 23	7 x 23	14	2.61
DY x 23 FFG	7 x 23 FFG	14	2.61
EB x 1	490	3	2.56
EB x 1 FFG	490 FFG	3	2.56
EB x 2	490 F	9	2.56
EB x 3	2331 F LG	10	2.62

Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agulhas Sistemas das agulhas	Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
EB x 64	64	13	2.02	LW x 5 T FFG	251 EL FFG	17	2.48
EB x 459 LG SD	459 LG	7	2.33	LW x 6 T	29 BL	19	2.48
EB x 459 R	459 R	5	2.09	LW x 6 T FFG	29 BL FFG	19	2.48
EB x 750	750 SC	7	2.08	LW x 7 T	29 BB	22	2.34
EB x 750 FFG	751 SC	7	2.08	LW x 251 EU	251 EU	19	2.39
EB x 750 FG	750 SC FG	7	2.08	LW x 1669 E	1669 E EO	19	2.39
EB x 755	501 SC	4	2.08	MR x R1	151 x 7	17	2.04
EB x 755 FFG	505 SC	4	2.08	MR x R1 FFG	151 x 7 FFG	17	2.04
EB x 1567	459 R	5	2.09	MR x R1 FG	151 x 7 FG	17	2.04
EE x 1	129 x 1	6	2.53	MR x R9	151 x 7	17	2.04
FL x 1 A	561 - 1	7	2.29	MR x R9 FFG	151 x 7 FFG	17	2.04
FL x 2 A	561 - 2	7	2.29	MR x R9 FG	151 x 7 FG	17	2.04
FL x 118 A	UY 118 GAS	9	2.30	MT x 134 K ≤ 110	134 KK LR	4	2.23
FL x 118 A FFG	UY 118 GAS FFG	9	2.30	MT x 134 K ≥ 120	134 LR	4	2.20
FL x 118 A FG	UY 118 GAS FG	9	2.30	MT x 134 L	134 LL	4	2.20
FL x 118 B	UY 118 GBS	8	2.30	MT x 134 PCL	134 PCL	4	2.24
FL x 118 GBS	UY 118 GBS	8	2.30	MT x 190	190	4	2.52
FL x 118 GCS	UY 118 GKS	9	2.30	MT x 190 FFG	190 FFG	4	2.52
FL x 551	561 - 2	7	2.29	MT x 190 K	190 K	4	2.52
FL x 555	561 - 1	7	2.29	MT x 190 LR	190 LR	6	2.52
FO x 3	126 x 3	3	2.40	MT x 797	134	1	2.18
FO x 9	126 x 3	3	2.40	MT x 797 FFG	134 FFG	1	2.19
FV x 1	31 x 1	4	2.34	MT x 797 FG	134 FG	1	2.19
KR x 3 150-190	328 S	12	2.58	MT x 797 RS	134 RS	1	2.18
KR x 3 ≥ 200	328 S	12	2.60	NB x 5	573 N	9	2.08
LA x 71 EL 100-140	71 L	18	2.53	PF x 34 CL ≤ 110	34 CL	3	2.15
LA x 71 EL 160	71 L	18	2.56	PF x 34 CL SD	16 x 246 SD	5	2.13
LA x 71 EL 180-200	71 L	18	2.60	PF x 34 FFG ≤ 110	34 FFG	1	2.12
LA x 71 ER 100-140	71 R	18	2.53	PF x 34 FFG 120-140	34 FFG	1	2.16
LA x 71 ER 160	71 R	18	2.56	PF x 34 FG	34 FG	1	2.12
LA x 71 ER 180-200	71 R	18	2.61	PF x 34 P ≤ 110	34 P	3	2.13
LA x 81	81	5	2.49	PF x 34 P ≥ 150	134 P	4	2.21
LA x 88	88 HK	5	2.55	PF x 34 R ≤ 110	34	1	2.12
LA x 215	215 AH	4	2.55	PF x 34 R 120-140	34	1	2.16
LA x 215 FFG	215 AH FFG	4	2.55	PF x 34 R ≥ 150	134	1	2.18
LA x 505	505 LG	5	2.35	PF x 134	134	1	2.18
LQ x 3	3207 CR RG	4	2.14	PF x 134 CL	134 CL	4	2.24
LQ x 5	68 x 5	3	2.16	PF x 134 CR	134 CR	4	2.23
LQ x 5 FFG	68 x 5 FFG	3	2.16	PF x 134 D	134 D	4	2.19
LQ x 7	3207 CR	4	2.14	PF x 134 EL	134 EL	7	2.19
LS x 18 ≤ 125	29 LSS	3	2.54	PF x 134 ER	134 ER	7	2.19
LS x 18 ≥ 130	2091	3	2.53	PF x 134 FFG	134 FFG	1	2.19
LW x 1 T	29 BD	17	2.29	PF x 134 FG	134 FG	1	2.19
LW x 2 T	29 BL	19	2.48	PF x 134 K	134 K	4	2.23
LW x 2 T FFG	29 BL FFG	19	2.48	PF x 134 K FFG	134 K FFG	4	2.23
LW x 3 T	251	17	2.47	PF x 134 KK ≤ 110	134 KK	1	2.22
LW x 4 T	251	17	2.47	PF x 134 KK ≥ 120	134	1	2.18
LW - C 5	29 BK	19	2.29	PF x 134 KK D ≤ 110	134 KK D	4	2.22
LW x 5 T	251 EL	17	2.48	PF x 134 KK D ≥ 120	134 D	4	2.19

Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.
Sistemas das agulhas		Sistema GB	GP	Página
PF x 134 KK DI	≤ 110	134 KK DI	4	2.22
PF x 134 KK DI	≥ 120	134 DI	4	2.20
PF x 134 KK FFG	≤ 110	134 KK FFG	1	2.22
PF x 134 KK FFG	≥ 120	134 FFG	1	2.18
PF x 134 KK FG	≤ 110	134 KK FG	1	2.22
PF x 134 KK FG	≥ 120	134 FG	1	2.19
PF x 134 KK LR	≤ 110	134 KK LR	4	2.23
PF x 134 KK LR	≥ 120	134 LR	4	2.20
PF x 134 KK PCL	≤ 110	134 KK PCL	4	2.24
PF x 134 KK PCL	≥ 120	134 PCL	4	2.24
PF x 134 KS		134 S	4	2.21
PF x 134 LL		134 LL	4	2.20
PF x 134 LR		134 LR	4	2.20
PF x 134 P		134 P	4	2.21
PF x 134 PCR		134 PCR	4	2.24
PF x 134 RS		134 RS	1	2.18
PF x 134 S		134 S	4	2.21
PF x 134 VR		134 VR	4	2.22
PF x 470 KA		470 KA	8	2.45
PF x 797		134 K	4	2.23
PF x 797 FFG		134 K FFG	4	2.23
PF x 797 K		134 K	4	2.23
PO x 1		46 x 1	6	2.29
PYA - 2	90-120	604 FE	25	2.56
PYA - 2	130+150	604 FE	25	2.61
PYA - 2	160	604 FE	25	2.62
PYA - 4		PYA - 4	22	2.64
PYL - 367	≤ 130	367 S LG	10	2.52
PYL - 367	≥ 140	367 S LG	10	2.54
PYL - 367 S	≤ 130	367 S	10	2.52
PYL - 367 S	≥ 140	367 S	10	2.52
RE x 1		950 SC	9	2.61
RE x 2		950 A	9	2.62
RM x 26		B 26	5	2.02
RM x 26 FG		B 26 FG	5	2.02
RM x 27		B 27	4	2.02
RM x 27 FFG		B 27 FFG	4	2.02
RM x 27 FG		B 27 FG	4	2.02
RM x 27 FMB		B 27 FM - B	14	2.03
RM x 27 R		B 27 R	4	2.02
RM x 27 RS		B 27 RS	4	2.02
RM x 27 SKL		B 27 SKL	4	2.02
RM x 29		B 29	6	2.03
RM x 29 FFG		B 29 FFG	6	2.03
RM x 29 FG		B 29 FG	6	2.03
RM x 63		B 63	4	2.44
RM x 63 FFG		B 63 FFG	4	2.44
RM x 63 FG		B 63 FG	4	2.44
RM x 63 R		B 63 R	4	2.44

Sistema de agulhas		Sistema GB	GP	Capítulo/Pág.
Sistemas das agulhas		Sistema GB	GP	Página
RM x 63 SKL		B 63 SKL	4	2.44
SG x 506		506 LG	9	2.49
SG x 1906		1906	1	2.25
SG x 1906 FFG		1906 FFG	1	2.25
SG x 1906 FG		1906 FG	1	2.25
SG x 1906 SKL		1906 SKL	1	2.25
SG x 1907		134 FG	1	2.19
SG x 1963		1906 FFG	1	2.25
SG x 1965		1906 FG	1	2.25
SH x 1		854 S	6	2.51
SH x 1 FFG		854 S FFG	6	2.51
SH x 1 FG		854 S FG	6	2.51
SH x 1 G		854 S TR	6	2.51
SH x 1 Y		854 S TR	6	2.51
SH x 3		110 S	6	2.52
SH x 3 FFG		110 S FFG	6	2.51
SH x 3 FG		110 S FG	6	2.51
SH x 3 G		110 S TR	6	2.52
SH x 3 Y		110 S TR	6	2.52
SM x 67		B 67	6	2.35
SM x 67 FFG		B 67 FFG	6	2.35
SM x 67 SKL		B 67 SKL	6	2.35
SM x 332 LG		332 LGH KSP	4	2.55
SM x 332 LG RG		332 LGH KSP RG	4	2.55
SM x 805 LR		805 LR	10	2.38
SM x 971 B		971 B1	11	2.45
SM x 1014 A		MY 1014 B	8	2.40
SM x 1014 A FFG		MY 1014 B FFG	8	2.40
SM x 1014 B		MY 1014 B	8	2.40
SM x 1014 B FFG		MY 1014 B FFG	8	2.40
SM x 1040		UY 943 GS	13	2.50
SM x 3202 CR		3202 CR	7	2.16
SM x 3207 CR		3207 CR	4	2.14
SM x 3207 CR FFG		3207 CR RG	4	2.14
SM x 4117		4117	23	2.06
SM x 4118		4118	23	2.09
SY x 2270	≤ 110	1738	1	2.09
TB x 1	≤ 110	1738	1	2.09
TB x 1	≥ 120	134	1	2.18
TF x 1	≤ 110	34	1	2.12
TF x 1	≥ 120	134	1	2.18
TF x 1 FFG	≤ 110	34 FFG	1	2.12
TF x 1 FFG	≥ 120	134 FFG	1	2.18
TF x 1 FG	≤ 110	34 FG	1	2.12
TF x 1 FG	≥ 120	134 FG	1	2.19
TF x 2	≤ 110	34 LL	3	2.13
TF x 2	≥ 120	134 LL	4	2.20
TF x 2 LR	≤ 110	34 LR	3	2.13
TF x 2 LR	≥ 120	134 LR	4	2.20

Sistema de agulhas Sistemas das agulhas		Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página	Sistema de agulhas Sistemas das agulhas		Sistema GB Sistema GB	GP GP	Capítulo/Pág. Página
TF x 3	≤ 110	34	1	2.12	TT x 750 FG		750 SC FG	7	2.08
TF x 4	≤ 110	34 PCL	3	2.14	TT x 750 S		750 SC	7	2.08
TF x 4	≥ 120	134 PCL	4	2.24	TT x 750 S FFG		751 SC	7	2.08
TF x 6	≤ 110	16 x 6	3	2.14	TV x 1		149 x 1	5	2.33
TF x 6	≥ 120	134 PCR	4	2.23	TV x 3		UY 128 GAS	7	2.42
TF x 8	≥ 120	134 S	4	2.21	TV x 3 FFG		UY 128 GBS	7	2.42
TF x F8	≤ 110	34 S	3	2.13	TV x 3 FG		UY 128 GBS FG	7	2.42
TF x F8	120-140	34 S	3	2.17	TV x 3 KN		UY 128 SAN 10	8	2.47
TF x 63		16 x 63 H	5	2.48	TV x 3 R		UY 128 GAS R	7	2.42
TF x 73	≤ 110	34	1	2.12	TV x 3 SAN 6		UY 128 SAN 6	8	2.47
TF x 73	≥ 120	134	1	2.18	TV x 5		149 x 5	6	2.49
TF x 73 FFG	≤ 110	34 FFG	1	2.12	TV x 5 SAN 6		149 x 5 SAN 6	7	2.49
TF x 73 FFG	≥ 120	134 FFG	1	2.18	TV x 7		149 x 7	6	2.33
TF x 73 FG	≤ 110	34 FG	1	2.12	TV x 7 FFG		149 x 7 FFG	6	2.33
TF x 73 FG	≥ 120	134 FG	1	2.19	TV x 7 FG		149 x 7 FG	6	2.33
TF x 287 LR	≥ 120	287 LR	3	2.11	TV - F16		134 - 35 D	4	2.36
TI x 1		128 x 21	3	2.16	TV x 64		B 64	4	2.31
TI x 2		128 x 20 TRI	5	2.16	TV x 64 FFG		B 64 FFG	4	2.31
TI x 3		128 x 21	3	2.16	TV x 64 FG		B 64 FG	4	2.31
TI x 4		128 x 22 NW	7	2.16	TV x 934		934	6	2.33
TI x 15		128 x 21	3	2.16	TV x 934 FFG		934	6	2.33
TI x 21		128 x 21	3	2.16	UO x 101		UY 106 GS	5	2.31
TI x 22		128 x 22 NW	7	2.16	UO x 106		UY 106 GS	5	2.31
TL x 1		151 x 7	17	2.04	UO x 106 G		UY 106 GS	5	2.31
TL x 1 FFG		151 x 7 FFG	17	2.04	UO x 108 G		UY 108 GS	7	2.33
TL x 1 FG		151 x 7 FG	17	2.04	UO x 109 G		UY 109 GS	7	2.31
TL x 5		151 x 7	17	2.04	UO x 113		UY 113 GS	8	2.32
TL x 5 FFG		151 x 7 FFG	17	2.04	UO x 121	≤ 110	UY 121 GS	4	2.46
TL x 5 FG		151 x 7 FG	17	2.04	UO x 121	≥ 120	1280 KSP	4	2.43
TL x 7		151 x 7	17	2.04	UO x 128 L		UY 128 GLS	7	2.42
TL x 7 FFG		151 x 7 FFG	17	2.04	UO x 130 G		UY 130 GS	8	2.44
TL x 7 FG		151 x 7 FG	17	2.04	UO x 130 G R		UY 130 GS R	8	2.45
TL x 9		151 x 9	22	2.05	UO x 143 G		UY 143 GS	11	2.50
TQ x 1		1985	2	2.34	UO x 147 GA		UY 147 GS	8	2.51
TQ x 1 FFG		1985	2	2.34	UO x 150 G		UY 150 GS	6	2.27
TQ x 1 FG		1985	2	2.34	UO x 154		UY 154 GBS	20	2.06
TQ x 1 R		1985 R	2	2.34	UO x 163		UY 163 GAS	7	2.34
TQ x 3		2018	3	2.49	UO x 163 GAS		UY 163 GAS	7	2.35
TQ x 3 FFG		2018	3	2.49	UO x 163 GAS FFG		UY 163 GHS	7	2.35
TQ x 5		1985	2	2.34	UO x 180 G		UY 180 GYS	5	2.28
TQ x 5 FFG		1985	2	2.34	UO x 180 G SAN 6		UY 180 SAN 6	6	2.28
TQ x 5 FG		1985	2	2.34	UO x 183 G		UY 183 GYS	5	2.05
TQ x 5 R		1985 R	2	2.34	UO x 306 G		UY 306 GS	7	2.31
TQ x 7		2091	3	2.54	UO x 1970		UY 1970 G	22	2.62
TQ x 7 FFG		2091	3	2.54	UO x 1970 A		UY 1970 A	22	2.62
TQ x 7 FG		2091	3	2.54	UO x 1975		UY 1975 G	21	2.63
TQ x 9	≤ 125	29 LSS	3	2.54	UO x 4463		4463 KK	7	2.27
TQ x 9	≥ 130	2091	3	2.53	UO x 4463 LG		4463 - 35	7	2.43
TQ x N14		2091 KK	5	2.54	UO x 4463 LG R		4463 - 35 R	7	2.43

[illegible]

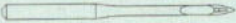


GROZ-BECKERT®

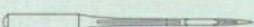
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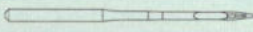
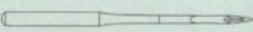
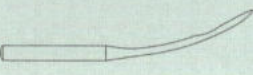
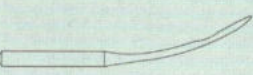
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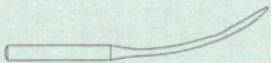
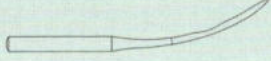
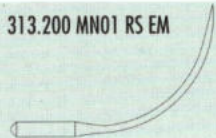
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Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
FLS - 351	25	80 12	0.80 EN07 RS 		RS/SPI 	FLS - 351
AMF 1032 B1-26	24	90	0.90 EN01 RS 		RS/SPI 	1032 B1-26
AMF 1032 B1-38	24	100	0.100 EN02 RS 		RS/SPI 	1032 B1-38
AMF 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

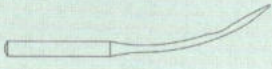
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
W&G 513	16	100 40 110 44 125 49 140 55	282.200 AC03 R 		R 	W&G 513
64	13	90 14 100 16 110 18 120 19	282.202 AC01 R 		R 	64, W&G 502, SOABAR, WG x 64
B 26	5	70 10 80 12 90 14 100 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 21 150 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 85 13 90 14 100 15 110 16 120 17 120 18 120 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 85 13 90 14 100 15 110 16 120 17 120 18 120 19 130 20 130 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 17 120 18 120 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 85 13 90 14 100 15 110 16 120 17 120 18 120 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 85 13 90 14 100 15 110 16 120 17 120 18 120 19 130 20 130 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

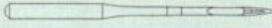
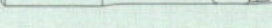
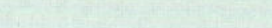
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
B 27 P	4	70 10 80 12	286.202 BC01 P 		P/NW 	B 27 P
B 27 FM - B	14	70 10 80 12 90 14	286.202 BC02 RG 		RG 	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

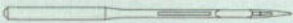
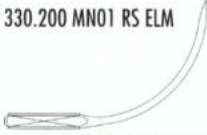
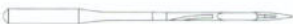
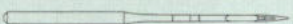
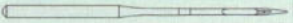
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
DC x 1 F	6	70 10 80 12 90 14	286.202 BC08 R 		R	DC x 1 F
DC x 1 FFG	6	80 12 90 14	286.202 BC08 FFG 		FFG/SES	DC x 1 F
81 x 1	4	55 7 60 8 65 9 70 10 75 11 80 12 85 13 85 14 90 15 100 16 110 17 120 18 125 19 130 20 140 21 140 22	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 8 65 9 70 10 75 11 80 12	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 7 65 8 70 9 75 10 80 11 85 12 90 13 90 14 100 15 100 16	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 8 65 9 70 10 75 11 80 12	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 9 70 10 75 11 80 12 90 13 90 14 100 15 100 16	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 9 70 10 75 11	286.202 BC10 RG 		RG	81 x 1 SAN 10, DC x 1 KN
B 27 SAN 10	5	65 9 70 10 75 11	286.202 BC12 RG 		RG	B 27 SAN 10, DC x 27 KN
151 x 7	17	65 9 70 10 75 11 80 12 90 13 90 14 100 15 100 16 110 17 120 18 120 19 130 20 150 21	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 10 75 11 80 12 90 13 90 14 100 15 100 16	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 12	291.202 MC01 FG 		FG/SUK	151 x 7, 151 x 5, 60 M, 60 MSD, MY 1151, TL x 7, MR x R9

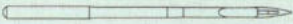
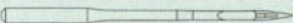
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
151 x 9	22	90 14 100 16	291.202 MC02 RG 		RG 	151 x 9, 151 x 11, 60 A, 60 MA, MY 1519, TL x 9
1128	1	60 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

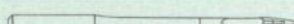
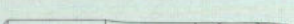
Sistema GB	GP	Gruesso de aguja						Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas						Ilustração (1:1)		Ponta	Sistemas das agulhas
142 x 5	5	80 12	90 14	100 16	110 18	120 19	130 21	312.200 BC01 RG 		RG 	142 x 5, 1778, DO x 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	55 022 036 150 060	60 024 040	65 025 044	70 027 048	75 029 049	80 032 054	315.201 MC01 RG 		RG 	UY 154 GAS, 151 x 21, SY 1431, UY x 154 GAS

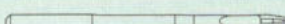
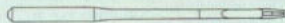
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 154 TAS	15	65 025 110 044 70 027 125 049 75 029 80 032 90 036 100 040	315.201 MK01 RG 		RG 	UY 154 TAS, 151 x 21, SY 1431, UY x 154 GAS
UY 154 GHS	15	55 022 90 036 60 024 100 040 65 025 110 044 70 027 125 049 75 029 80 032	315.201 MC01 FFG 		FFG/SES 	UY 154 GHS, 151 x 21, SY 1433
UY 154 THS	15	65 025 70 027 75 029 80 032 90 036 110 044	315.201 MK01 FFG 		FFG/SES 	UY 154 THS, 151 x 21, SY 1433
UY 154 GHS FG	15	55 022 70 027 75 029 80 032 90 036	315.201 MC01 FG 		FG/SUK 	UY 154 GHS, 151 x 21, SY 1434
UY 154 GJS	18	65 025 70 027 75 029 80 032 90 036	315.201 MC02 FFG 		FFG/SES 	UY 154 GJS
UY 8454 GS	20	65 025 110 044 70 027 75 029 80 032 90 036 100 040	315.201 MC03 RG 		RG 	UY 8454 GS, UY x 8454, SY 1435
UY 8454 GHS	20	55 022 70 027 80 032 90 036 100 040	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	55 022 65 025 70 027	315.201 MC04 RG 		RG 	UY 8455 GS
UY 8456 GS	20	55 022 65 025 70 027	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

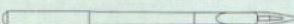
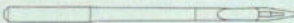
Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
5620	3	70 10 80 12	316.200 AC01 R 		R	5620
135 x 1	2	55 60 65 70 75 80 7 8 9 10 11 12 90 100 110 120 125 130 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 3 120 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

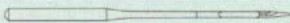
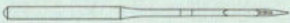
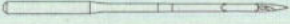
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
750 SAN 2	7	80 12	330.163 AC07 RG 		RG	750 SAN 2
503 SC	5	100 110 120 1 2 3	330.163 BC01 R 		R	503 SC, 1807 A, 1807 - 2
503 SC GEBEDUR	7	90 100 110 120 0 1 2 3	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 40 45 50 55 60 23 21 20 19 18 17 65 70 75 80 90 100 16 15 14 13 12 11 110 120 130 10 9 8	335.140 AC01 RS 		RS/SPI	459 R, 1567, EB x 1567
B 155	8	100 110 120 16 18 19	337.200 BC01 R 		R	B 155, BB x 155
DB x 1	1	60 65 70 75 80 85 8 9 10 11 12 13 90 100 110 14 16 18	338.162 AC01 R 		R	DB x 1
DB x 1 FFG	1	55 60 65 70 75 80 7 8 9 10 11 12 85 90 100 13 14 16	338.162 AC01 FFG 		FFG/SES	DB x 1
1738	1	55 60 65 70 75 80 7 8 9 10 11 12 85 90 100 110 13 14 16 18	339.163 AC01 R 		R	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
	1	120 125 130 140 150 160 19 20 21 22 23 24 180 200 24 25	→ 2.18 339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
	1	120 125 130 140 160 19 20 21 22 23	→ 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 65 70 75 80 90 8 9 10 11 12 14 100 110 16 18	339.163 AD01 R 		R	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257

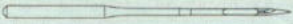
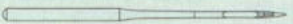
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
1738 GEBEDUR	2	120 19 125 20 130 21 140 22 160 23	→ 2.14 339.163 AD12 R 		R	71 x 1, 1738 A, 287 WH, 16 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
	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 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
	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
	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 85 13 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 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
	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	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

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	3	120 19 140 22	→ 2.19 339.200 AC01 SD 	+	SD/TRIFACET	134, 135 x 7, 135 x 5, 1738
1738 LR	4	65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.163 AC01 LR 	+	LR/RTW	1738 LR, 16 x 230 RTW, DB x F2
	4	120 19 125 20 130 21 140 22	→ 2.20 339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 797 LR, 16 x 2 RTW
	4	150 23 160 24 170 25 180 200	→ 2.21 339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
1738 KK ER	7	70 10 80 12 90 14	339.163 AC02 R ER 	+	R ER	1738 KK ER, DB x 1738 KK ER
287	1	120 19	339.163 AC03 R 	+	R	287, 287 H, 130 B, 16 x 21, DB x A20
	1	65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	→ 2.12 339.163 AC06 R 	+	R	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
287 LR	3	120 19 130 21 140 22	339.163 AC03 LR 	+	LR/RTW	287 LR, 287 H LR, 376 LR, 606 LR, TF x 287 LR
	3	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	→ 2.13 339.163 AC06 LR 	+	LR/RTW	34 LR, 16 x 2 RTW, 287 LR, 376 LR, 563 LR, 690 LR, TF x 2 LR
287 WKH	3	55 7 60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18 120 21 130	339.163 AC05 R 	+	R	287 WKH, 287 WK, DB x 287 WKH
287 WKH GEBEDUR	6	70 10 75 11 80 12	339.163 AD05 R 	+	R	287 WKH, 287 WK, DB x 287 WKH
287 WKH RG	3	65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.163 AC05 RG 	+	RG	287 WKH, 287 WK, DB x 287 WKH

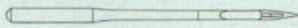
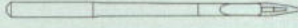
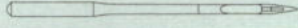
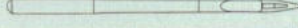
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
287 WKH FFG	3	60 8 90 14 65 9 100 16 70 10 75 11 80 12 85 13	339.163 AC05 FFG 		FFG/SES	287 WKH, 287 WK, DB x 287 WKH
287 WKH FG	3	65 9 70 10 75 11 80 12 90 14	339.163 AC05 FG 		FG/SUK	287 WKH, 287 WK, DB x 287 WKH
34	1	65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.163 AC06 R 		R	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
	1	120 9 130 21 140 22	→ 2.16 339.190 AC06 R 		R	34, PF x 34
	1	150 23 160 24 180 25 200	→ 2.18 339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
34 GEBEDUR	2	70 10 100 16	339.163 AD06 R 		R	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
34 FFG	1	60 8 90 14 65 9 100 16 70 10 75 11 80 12 90 14	339.163 AC06 FFG 		FFG/SES	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
	1	120 19	→ 2.16 339.190 AC06 FFG 		FFG/SES	34, PF x 34
34 FG	1	80 12 90 14 100 16	339.163 AC06 FG 		FG/SUK	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
34 D	3	90 14 100 16 110 18	339.163 AC06 D 		D/TRI	34 D, 16 x 2 TRI, 287 D, 376 D, 16 x 2 H TRI, 16 x 22 TRI
	3	120 19 130 21	→ 2.17 339.190 AC06 D 		D/TRI	34 D
	4	150 23 160 24 170 25 180	→ 2.20 339.200 AC01 D 		D/TRI	134 D, 134 KK D, 34 D, 135 x 8 TRI, 16 x 2 TRI, 16 x 230 TRI, PF x 134 D

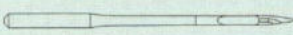
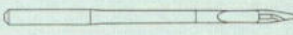
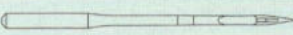
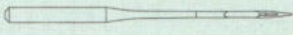
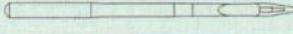
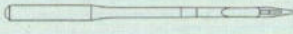
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
34 LL	3	70 10 110 18	339.163 AC06 LL 	+	LL/TW	34 LL, 16 x 2 TW, 287 LL, 563 LL, TF x 2
	3	120 19	→ 2.17 339.190 AC06 LL 	+	LL/TW	34 LL
	4	160 23	→ 2.20 339.200 AC01 LL 	+	LL/TW	134 LL, 135 x 8 TW, PF x 134 LL, 134 KK LL, 1738 LL, 34 LL, 16 x 2 TW
34 LR	3	60 8 90 14	339.163 AC06 LR 	+	LR/RTW	34 LR, 16 x 2 RTW, 287 LR, 376 LR, 563 LR, 690 LR, TF x 2 LR
	3	120 19	→ 2.17 339.190 AC06 LR 	+	LR/RTW	34 LR
	4	150 23	→ 2.21 339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
34 P	3	70 10 110 18	339.163 AC06 P 	+	P/NW	34 P, 34 PS, 16 x 2 NW, 287 P, 376 P, 690 P, 16 x 74 NW
	4	160 23	→ 2.21 339.200 AC01 P 	+	P/NW	134 P, 134 KK P, PF x 134 P, 135 x 8 NW, 34 P, 16 x 2 NW, 1738 P
34 S	3	80 12	339.163 AC06 S 	+	S/NCR	34 S, 16 x 2 NCR, 287 S, 376 S, 690 S, TF x F8
	3	120 19	→ 2.17 339.190 AC06 S 	+	S/NCR	34 S, TF x F8
	4	150 23	→ 2.21 339.200 AC01 S 	+	S/NCR	134 S, 134 KK S, 135 x 8 NCR, 34 S, 16 x 2 NCR, PF x 134 KS, DF x F19
16 x 246 SD	5	80 12	339.163 AC09 SD 	+	SD/TRI FACES	16 x 246, 16 x 4, 34 CL, PF x 34 CL

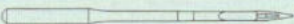
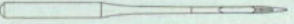
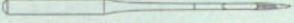
Sistema GB	GP	Grueso de aguja							Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas							Ilustração (1:1)		Ponta	Sistemas das agulhas
34 PCL	3	60 8	65 9	70 10	75 11	80 12	85 13	339.163 AC09 P			P/NW	34 PCL, 16 x 4 NW, 16 x 246 NW, 287 PCL, 376 PCL, TF x 4
	4	150 23	160 23					→ 2.24 339.200 AC05 P			P/NW	134 PCL, 134 KK PCL, 797 PCL, 797 KK PCL, MT x 134 PCL, 34 PCL, 16 x 4 NW
16 x 6	3	60 8	65 9	70 10	75 11	80 12	85 13	339.163 AC11 P			P/NW	16 x 6, 34 PCR, 287 PCR, TF x 6
	4	120 19	125 20	130 21	140 22			→ 2.24 339.200 AC04 P			P/NW	134 PCR, 134 KK PCR, 797 PCR, 16 x 6, PF x 134 PCR, TF x 6
	4	160 23						→ 2.24 339.200 AC04 P			P/NW	134 PCR, 134 KK PCR, 797 PCR, 16 x 6, 34 PCR, TF x 6, PF x 134 PCR
71 x 1	1	120 19	125 20	130 21	140 22	160 23		339.163 AC12 R			R	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
	1	55 7	60 8	65 9	70 10	75 11	80 12	→ 2.09 339.163 AC01 R			R	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
71 x 1 GEBEDUR	2	120 19	125 20	130 21	140 22			339.163 AD12 R			R	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
71 x 1 FFG	1	120 19	130 21	140 22				339.163 AC12 FFG			FFG/SES	71 x 1, 1738 A, 287 WH, 16 x 95, DL x 1, DL x 95
	1	55 7	60 8	65 9	70 10	75 11	80 12	→ 2.10 339.163 AC01 FFG			FFG/SES	1738, 16 x 257, 16 x 231, 71 x 1, 287 WH, DB x 1, DB x 257
3207 CR	4	80 12	90 14	100 16	110 18	120 19	130 21	339.163 AC14 R			R	3207 CR, 68 x 7, 1441
3207 CR RG	4	70 10	80 12	100 16	110 18	120 19		339.163 AC14 RG			RG	3207 CR, 68 x 3, 1441

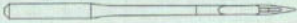
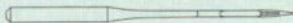
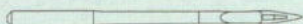
Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
34 CL	3	90 14 100 16	339.163 AC19 R 		R 	34 CL, 16 x 3, PF x 34 CL
DB x K5	1	60 65 70 75 80 85 8 9 10 11 12 13 90 100 110 14 16 18	339.163 AC20 R 		R 	DB x K5
DB x K5 GEBEDUR	2	65 70 75 80 9 10 11 12	339.163 AD20 R 		R 	DB x K5
DB x K5 FFG	1	60 65 70 75 80 90 8 9 10 11 12 14	339.163 AC20 FFG 		FFG/SES 	DB x K5
DB x K5 FFG GEBEDUR	2	65 70 75 9 10 11	339.163 AD20 FFG 		FFG/SES 	DB x K5
DB x K5 FG	1	65 70 75 80 90 9 10 11 12 14	339.163 AC20 FG 		FG/SUK 	DB x K5
DB x K5 SD	3	65 75 9 11	339.163 AC20 SD 		SD/TRI FACET 	DB x K5
1738 KK	2	65 70 75 80 90 100 9 10 11 12 14 16 110 18	339.163 AC21 R 		R 	1738 KK, DB - N20, BL x 1
1738 KK FFG	2	70 80 90 10 12 14	339.163 AC21 FFG 		FFG/SES 	1738 KK, DB - N20, BL x 1
1738 CL SAN 1	4	70 80 90 100 10 12 14 16	339.163 AC25 RG 		RG 	1738 CL SAN 1
1738 SAN 10	2	65 70 75 9 10 11	339.163 AC26 RG 		RG 	1738 SAN 10, DB x 1 KN
16 x 26 NW	5	130 21	339.163 AC27 P 		P/NW 	16 x 26 NW

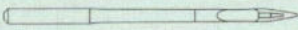
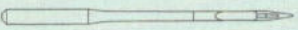
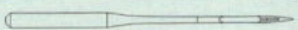
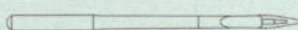
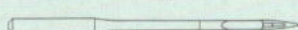
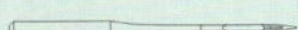
Sistema GB	GP	Gruoso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
68 x 5	3	80 12 90 14 100 16 110 18 120 19 130 21 140 22	339.163 BC01 RG 	+	RG	68 x 5, 3201, LQ x 5
68 x 5 FFG	3	80 12 90 14 100 16	339.163 BC01 FFG 	+	FFG/SES	68 x 5, 3201, LQ x 5
3202 CR	7	100 16 110 18	339.163 BC05 R 	+	R	3202 CR, SM x 3202 CR
128 x 21	3	70 10 75 11 80 12 85 13 90 14 100 16 110 18 125 20 130 21 140 22	339.174 AC01 R 	+	R	128 x 21, 128 x 1, 128 x 3, 135, TI x 21
128 x 20 TRI	5	80 12 85 13 90 14 100 16 110 18 120 19 125 20 130 21 140 22	339.174 AC03 D 	+	D/TRI	128 x 20 TRI, 128 x 22 TRI, 128 x 6 TRI, 128 x 2, 135 D, TI x 2
128 x 20 TRI GEBEDUR	7	110 18 125 20 140 22	339.174 AD03 D 	+	D/TRI	128 x 20 TRI, 128 x 22 TRI, 128 x 6 TRI, 128 x 2, 135 D, TI x 2
128 x 22 NW	7	90 14 110 18 125 20	339.174 AC04 P 	+	P/NW	128 x 22 NW, 128 x 6 NW, 128 x 4 NW, 135 P, TI x 22, TI x 4
34	1	120 19 130 21 140 22	339.190 AC06 R 	+	R	34, PF x 34
	1	65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	→ 2.12 339.163 AC06 R 	+	R	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73
	1	150 23 160 24 180 25 200	→ 2.18 339.200 AC01 R 	+	R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
34 FFG	1	120 19	339.190 AC06 FFG 	+	FFG/SES	34, PF x 34
	1	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	→ 2.12 339.163 AC06 FFG 	+	FFG/SES	34, 16 x 1, 287, 16 x 73, 690, PF x 34, TF x 73

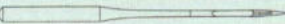
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
34 D	3	120 19 130 21	339.190 AC06 D 	+	D/TRI	34 D
	3	90 100 110 14 16 18	→ 2.12 339.163 AC06 D 	+	D/TRI	34 D, 16 x 2 TRI, 287 D, 376 D, 16 x 2 H TRI, 16 x 22 TRI
	4	150 160 170 180 23 24	→ 2.20 339.200 AC01 D 	+	D/TRI	134 D, 134 KK D, 34 D, 135 x 8 TRI, 16 x 2 TRI, 16 x 230 TRI, PF x 134 D
34 LL	3	120 19	339.190 AC06 LL 	+	LL/TW	34 LL
	3	70 75 80 85 90 100 10 11 12 13 14 16 110 18	→ 2.13 339.163 AC06 LL 	+	LL/TW	34 LL, 16 x 2 TW, 287 LL, 563 LL, TF x 2
	4	160 23	→ 2.20 339.200 AC01 LL 	+	LL/TW	134 LL, 135 x 8 TW, PF x 134 LL, 134 KK LL, 1738 LL, 34 LL, 16 x 2 TW
34 LR	3	120 130 140 19 21 22	339.190 AC06 LR 	+	LR/RTW	34 LR
	3	60 65 70 75 80 85 8 9 10 11 12 13 90 100 110 14 16 18	→ 2.13 339.163 AC06 LR 	+	LR/RTW	34 LR, 16 x 2 RTW, 287 LR, 376 LR, 563 LR, 690 LR, TF x 2 LR
	4	150 160 170 180 200 23 24 25	→ 2.21 339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
34 S	3	120 19	339.190 AC06 S 	+	S/NCR	34 S, TF x F8
	3	80 90 100 110 12 14 16 18	→ 2.13 339.163 AC06 S 	+	S/NCR	34 S, 16 x 2 NCR, 287 S, 376 S, 690 S, TF x F8
	4	150 160 23	→ 2.21 339.200 AC01 S 	+	S/NCR	134 S, 134 KK S, 135 x 8 NCR, 34 S, 16 x 2 NCR, PF x 134 KS, DF x F19

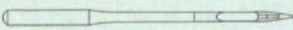
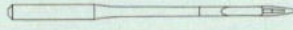
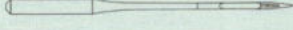
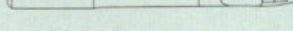
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
34 PCR	3	120 19 130 21	339.190 AC08 P 		P/NW	34 PCR
	3	60 65 70 75 80 85 8 9 10 11 12 13 90 100 110 14 16 18	→ 2.14 339.163 AC11 P 		P/NW	16 x 6, 34 PCR, 287 PCR, TF x 6
	4	160 23	→ 2.24 339.200 AC04 P 		P/NW	134 PCR, 134 KK PCR, 797 PCR, 16 x 6, 34 PCR, TF x 6, PF x 134 PCR
134	1	55 60 65 70 75 80 7 8 9 10 11 12 85 90 100 110 13 14 16 18	339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
	1	120 125 130 140 19 20 21 22	339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
	1	150 160 180 200 23 24 25	339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 GEBEDUR	2	60 65 70 75 80 90 8 9 10 11 12 14 100 110 16 18	339.200 AD01 R 		R	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
	2	120 130 140 19 21 22	339.200 AD01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
	2	150 160 23	339.200 AD01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 RS	1	65 70 80 90 100 110 19 20 22 24 26 28	339.200 AC01 RS 		RS/SPI	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
	1	120 19	339.200 AC01 RS 		RS/SPI	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 FFG	1	55 60 65 70 75 80 7 8 9 10 11 12 85 90 100 110 13 14 16 18	339.200 AC01 FFG 		FFG/SES	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7

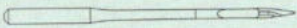
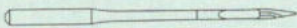
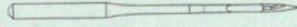
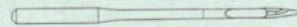
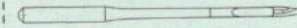
Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	1	120 19 125 20 130 21 140 22	339.200 AC01 FFG 		FFG/SES 	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 FFG GEBEDUR	2	60 8 65 9 70 10 75 11 80 12 90 14 100 16	339.200 AD01 FFG 		FFG/SES 	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
134 FG	1	60 8 65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC01 FG 		FG/SUK 	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
134 FG	1	120 19 125 20 130 21 140 22	339.200 AC01 FG 		FG/SUK 	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 FG GEBEDUR	2	65 9 70 10 75 11 80 12	339.200 AD01 FG 		FG/SUK 	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
134 SKL	1	60 8 65 9 70 10 75 11 80 12 90 14	339.200 AC01 SKL 		SKL 	134, 135 x 7, 135 x 5, 797, SY 1955, DP x 5, DP x 7
134 EL	7	70 10 80 12 90 14 100 16 110 18	339.200 AC01 R EL 		R EL 	134 EL, 797 EL, PF x 134 EL
134 EM	7	70 10 80 12 90 14	339.200 AC01 R EM 		R EM 	134 EM
134 ER	7	90 14 100 16 110 18	339.200 AC01 R ER 		R ER 	134 ER, 797 ER, PF x 134 ER
134 SD	3	65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC01 SD 		SD/TRI FACET 	134, 135 x 7, 135 x 5, 797, SY 1995
	3	120 19 140 22	339.200 AC01 SD 		SD/TRI FACET 	134, 135 x 7, 135 x 5, 1738
134 D	4	70 10 80 12 85 13 90 14 100 16 110 18	339.200 AC01 D 		D/TRI 	134 D, 135 x 8 TRI, PF x 134 D

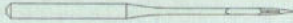
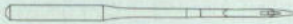
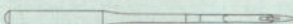
Sistema GB	GP	Groeso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 D	4	120 19 125 20 130 21 140 22	339.200 AC01 D 	+	D/TRI	134 D, 134 KK D, 135 x 8 TRI, PF x 134 D, 16 x 2 TRI, 16 x 230 TRI
	4	150 23 160 24 170 25 180	339.200 AC01 D 	+	D/TRI	134 D, 134 KK D, 34 D, 135 x 8 TRI, 16 x 2 TRI, 16 x 230 TRI, PF x 134 D
134 D GEBEDUR	7	90 14 100 16 110 18	339.200 AD01 D 	+	D/TRI	134 D, 135 x 8 TRI, PF x 134 D
	7	125 20 140 22	339.200 AD01 D 	+	D/TRI	134 D, 134 KK D, 135 x 8 TRI, PF x 134 D, 16 x 2 TRI, 16 x 230 TRI
	7	160 23	339.200 AD01 D 	+	D/TRI	134 D, 134 KK D, 34 D, 135 x 8 TRI, 16 x 2 TRI, 16 x 230 TRI, PF x 134 D
134 DI	4	80 12 90 14 100 16 110 18	339.200 AC01 DI 	+	DI/DIA	134 DI, 135 x 8 DIA, DP x 8
	4	120 19 130 21 140 22	339.200 AC01 DI 	+	DI/DIA	134 DI, 134 KK DI, 135 x 8 DIA, 1738 DI, DP x 8
134 LL	4	70 10 80 12 90 14 100 16 110 18	339.200 AC01 LL 	+	LL/TW	134 LL, 135 x 8 TW, PF x 134 LL, 797 LL
	4	120 19 130 21 140 22	339.200 AC01 LL 	+	LL/TW	134 LL, 135 x 8 TW, PF x 134 LL, 134 KK LL, 1738 LL, 16 x 2 TW, 16 x 230 TW
	4	160 23	339.200 AC01 LL 	+	LL/TW	134 LL, 135 x 8 TW, PF x 134 LL, 134 KK LL, 1738 LL, 34 LL, 16 x 2 TW
134 LR	4	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 797 LR
	4	120 19 125 20 130 21 140 22	339.200 AC01 LR 	+	LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 797 LR, 16 x 2 RTW

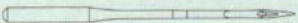
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	4	150 160 170 180 200 23 24 25	339.200 AC01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
134 LR GEBEDUR	7	70 75 80 90 100 110 10 11 12 14 16 18	339.200 AD01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 797 LR
	7	120 130 140 19 21 22	339.200 AD01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 797 LR, 16 x 2 RTW
	7	160 23	339.200 AD01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
134 P	4	65 70 75 80 90 100 9 10 11 12 14 16 110 18	339.200 AC01 P 		P/NW	134 P, PF x 134 P, 134 PS, 135 x 8 NW, 797 P
	4	120 130 140 19 21 22	339.200 AC01 P 		P/NW	134 P, 134 KK P, PF x 134 P, 135 x 8 NW, 16 x 2 NW, 16 x 74 NW, 1738 P
	4	160 200 23 25	339.200 AC01 P 		P/NW	134 P, 134 KK P, PF x 134 P, 135 x 8 NW, 34 P, 16 x 2 NW, 1738 P
134 S	4	65 70 75 80 90 100 9 10 11 12 14 16 110 18	339.200 AC01 S 		S/NCR	134 S, 797 S, 135 x 8 NCR, PF x 134 KS
	4	120 125 130 140 19 20 21 22	339.200 AC01 S 		S/NCR	134 S, 134 KK S, 135 x 8 NCR, 16 x 2 NCR, PF x 134 KS, DF x F19, TF x 8
	4	150 160 23	339.200 AC01 S 		S/NCR	134 S, 134 KK S, 135 x 8 NCR, 34 S, 16 x 2 NCR, PF x 134 KS, DF x F19
134 S GEBEDUR	7	90 100 110 14 16 18	339.200 AD01 S 		S/NCR	134 S, 797 S, 135 x 8 NCR, PF x 134 KS
	7	120 19	339.200 AD01 S 		S/NCR	134 S, 134 KK S, 135 x 8 NCR, 16 x 2 NCR, PF x 134 KS, DF x F19, TF x 8

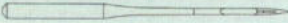
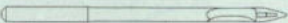
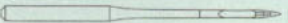
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 VR	4	70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.200 AC01 VR 		VR/RTWSP	134 VR, 135 x 8 RTWSP, PF x 134 VR
	4	120 19 130 21 140 22	339.200 AC01 VR 		VR/RTWSP	134 VR, 134 KK VR, 135 x 8 RTWSP, 16 x 2 RTWSP, PF x 134 VR
134 KK	1	70 10 80 12 90 14 100 16 110 18	339.200 AC02 R 		R	134 KK, B 134, 797 KK, PF x 134 KK
	1	120 19 125 20 130 21 140 22 150 23 160 24 200 25	→ 2.18 339.200 AC01 R 		R	134, 135 x 7, 135 x 5, 1738, 16 x 257, 16 x 231, SY 1955
134 KK FFG	1	70 10 80 12 90 14	339.200 AC02 FFG 		FFG/SES	134 KK, B 134, 797 KK, PF x 134 KK
	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
134 KK FG	1	90 14	339.200 AC02 FG 		FG/SUK	134 KK, B 134, 797 KK, PF x 134 KK
	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
134 KK D	4	80 12 90 14 100 16 110 18	339.200 AC02 D 		D/TRI	134 KK D, PF x 134 KK D
	4	120 19 125 20 130 21 140 22	→ 2.19 339.200 AC01 D 		D/TRI	134 D, 134 KK D, 135 x 8 TRI, PF x 134 D, 16 x 2 TRI, 16 x 230 TRI
134 KK DI	4	150 23 160 24 170 25 180 26	→ 2.20 339.200 AC01 D 		D/TRI	134 D, 134 KK D, 34 D, 135 x 8 TRI, 16 x 2 TRI, 16 x 230 TRI, PF x 134 D
	4	70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC02 DI 		DI/DIA	134 KK DI, PF x 134 KK DIA

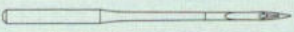
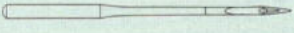
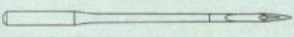
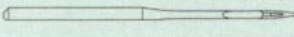
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	4	120 19 130 21 140 22	→ 2.20 339.200 AC01 DI 		DI/DIA	134 DI, 134 KK DI, DP x 8, 135 x 8 DIA, 1738 DI
134 KK LR	4	60 8 65 9 70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC02 LR 		LR/RTW	134 KK LR, PF x 134 KK LR, 797 KK LR
	4	120 19 125 20 130 21 140 22	→ 2.20 339.200 AC01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 797 LR, 16 x 2 RTW
	4	150 23 160 24 170 25 180 26 200	→ 2.21 339.200 AC01 LR 		LR/RTW	134 LR, 135 x 8 RTW, PF x 134 LR, 134 KK LR, 1738 LR, 34 LR, 16 x 2 RTW
134 KK S	4	70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC02 S 		S/NCR	134 KK S, DP x F19
	4	120 19 125 20 130 21 140 22	→ 2.21 339.200 AC01 S 		S/NCR	134 S, 134 KK S, 135 x 8 NCR, 16 x 2 NCR, PF x 134 KS, DF x F19, TF x 8
	4	150 23 160	→ 2.21 339.200 AC01 S 		S/NCR	134 S, 134 KK S, 135 x 8 NCR, 34 S, 16 x 2 NCR, PF x 134 KS, DF x F19
134 K	4	70 10 80 12 90 14 100 16 110 18 120 19 130 21 140 22	339.200 AC03 R 		R	134 K, 797 KH, PF x 797, PF x 134 K
134 K GEBEDUR	7	80 12 90 14 100 16	339.200 AD03 R 		R	134 K, 797 KH, PF x 797, PF x 134 K
134 K FFG	4	70 10 80 12 90 14 100 16	339.200 AC03 FFG 		FFG/SES	134 K, 797 KH, PF x 797, PF x 134 K
134 CR	4	70 10 80 12 90 14 100 16 110 18 120 19 125 20	339.200 AC04 R 		R	134 CR, 797 CR, PF x 134 CR
134 LL CR	5	70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.200 AC04 LL 		LL/TW	134 LL CR

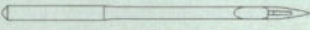
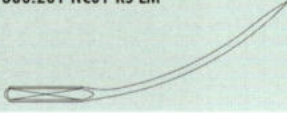
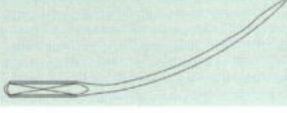
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)			Sistemas das agulhas
134 LL CR	5	120 19 130 21 140 22	339.200 AC04 LL 		LL/TW 	134 LL CR, 134 KK LL CR
134 PCR	4	70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC04 P 		P/NW 	134 PCR, 797 PCR, PF x 134 PCR
	4	120 19 125 20 130 21 140 22	339.200 AC04 P 		P/NW 	134 PCR, 134 KK PCR, 797 PCR, 16 x 6, PF x 134 PCR, TF x 6
	4	160 23	339.200 AC04 P 		P/NW 	134 PCR, 134 KK PCR, 797 PCR, 16 x 6, 34 PCR, TF x 6, PF x 134 PCR
134 CL	4	70 10 80 12 90 14 100 16 110 18	339.200 AC05 R 		R 	134 CL, 797 CL
134 PCL	4	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18	339.200 AC05 P 		P/NW 	134 PCL, 797 PCL, MT x 134 PCL
	4	120 19 125 20 130 21 140 22	339.200 AC05 P 		P/NW 	134 PCL, 134 KK PCL, 797 PCL, 16 x 4 NW, MT x 134 PCL, TF x 4
	4	150 23 160	339.200 AC05 P 		P/NW 	134 PCL, 134 KK PCL, 797 PCL, 797 KK PCL, MT x 134 PCL, 34 PCL, 16 x 4 NW
134 PCL GEBEDUR	7	90 14 100 16 110 18	339.200 AD05 P 		P/NW 	134 PCL, 797 PCL, MT x 134 PCL
134 KK PCL	4	70 10 75 11 80 12 90 14 100 16 110 18	339.200 AC06 P 		P/NW 	134 KK PCL, 134 KK PCLs, PF x 134 KK PCL
	4	120 19 125 20 130 21 140 22	→ 2.24 339.200 AC05 P 		P/NW 	134 PCL, 134 KK PCL, 797 PCL, 16 x 4 NW, MT x 134 PCL, TF x 4
	4	150 23 160	→ 2.24 339.200 AC05 P 		P/NW 	134 PCL, 134 KK PCL, 797 PCL, 797 KK PCL, MT x 134 PCL, 34 PCL, 16 x 4 NW

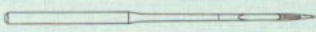
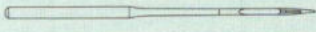
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)			Sistemas das agulhas
135 x 39	2	70 80 90 100 110 120 10 12 14 16 18 19	339.200 AC10 R 		R 	135 x 39, DP x 39
1906	1	70 75 80 90 100 110 10 11 12 14 16 18	339.200 AC11 R 		R 	1906, 135 x 53, SG x 1906
1906 GEBEDUR	2	70 80 90 10 12 14	339.200 AD11 R 		R 	1906, 135 x 53, SG x 1906
1906 FFG	1	70 80 90 100 10 12 14 16	339.200 AC11 FFG 		FFG/SES 	1906, 135 x 53, 1963, SG x 1906
1906 FG	1	70 75 80 90 10 11 12 14	339.200 AC11 FG 		FG/SUK 	1906, 135 x 53, 1965, SG x 1906
1906 FG GEBEDUR	2	70 80 90 10 12 14	339.200 AD11 FG 		FG/SUK 	1906, 135 x 53, 1965, SG x 1906
1906 SKL	1	70 75 80 10 11 12	339.200 AC11 SKL 		SKL 	1906, 135 x 53, SG x 1906
438	4	70 75 80 90 100 110 120 10 11 12 14 16 18 19	339.200 AC12 R 		R 	438, 265, DP x 438
438 FFG	4	70 80 90 100 110 10 12 14 16 18	339.200 AC12 FFG 		FFG/SES 	438, 265, DP x 438
438 FFG GEBEDUR	7	70 80 10 12	339.200 AD12 FFG 		FFG/SES 	438, 265, DP x 438
438 FG	4	70 80 10 12	339.200 AC12 FG 		FG/SUK 	438, 265, DP x 438
438 LR	6	90 100 110 120 14 16 18 19	339.200 AC12 LR 		LR/RTW 	438 LR, 265 LR

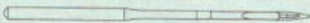
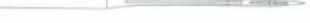
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)			Sistemas das agulhas
438 KK	4	70 10 80 12 90 14 100 16 110 18	339.200 AC13 R 		R 	438 KK, 265 KK, DP x 438 KK
265 - 5	4	70 10 80 12 90 14 100 16 110 18 120 19	339.200 AC14 R 		R 	265 - 5, 265 - 5 EO, 438 - 8, 438 - 8 EO, DP x 2655, DP x 2655 EO
265 - 50 EO	5	70 10 80 12 90 14 100 16 110 18	339.200 AC15 RG 		RG 	265 - 50 EO, 438 - 80 EO, DP x 265
265 - 50 EO FFG	5	60 8 65 9 70 10 80 12 90 14	339.200 AC15 FFG 		FFG/SES 	265 - 50 EO, 438 - 80 EO, DP x 265
265 - 50 EO FG	5	70 10 80 12 90 14	339.200 AC15 FG 		FG/SUK 	265 - 50 EO, 438 - 80 EO, DP x 265
134 CL SAN 1	4	70 10 80 12 90 14 100 16 110 18 120 19 130 21 140 22 150 23 160	339.200 AC20 RG 		RG 	134 CL SAN 1
134 CL SAN 1 GEBEDUR	7	80 12 90 14 100 16 120 19 140 22	339.200 AD20 RG 		RG 	134 CL SAN 1
134 CL SAN 2	5	120 19 130 21 140 22	339.200 AC21 RG 		RG 	134 CL SAN 2
135 x 7 LG SCARF	2	70 10 75 11 80 12	339.200 AC22 R 		R 	135 x 7 LG SCARF
135 x 7 LG SCARF FFG	2	70 10 75 11	339.200 AC22 FFG 		FFG/SES 	135 x 7 LG SCARF
134 CL SAN 3	6	110 18 120 19	339.200 AC23 RG 		RG 	134 CL SAN 3
134 SAN 10	2	65 9 70 10 75 11	339.200 AC24 RG 		RG 	134 SAN 10, DP x 5 KN

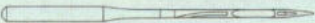
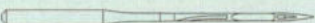
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 SAN 10 FG	2	65 9 70 10	339.200 AC24 FG 		FG/SUK 	134 SAN 10, DP x 5 KN
134 SAN 6	2	110 18 120 19 125 20 140 22	339.200 AC25 RG 		RG 	134 SAN 6, DP x 5 SAN 6
134 SAN 4	5	180 24	339.200 AC26 R 		R 	134 SAN 4
134 KF	6	100 16 110 18 120 19 140 22	339.200 AC28 R 		R 	134 KF
134 KF FFG	6	100 16 110 18 120 19	339.200 AC28 FFG 		FFG/SES 	134 KF
4463 KK	7	80 12 90 14 100 16 110 18	339.200 BC02 RG 		RG 	4463 KK, UO x 4463
4463 KK SD	9	90 14 100 16	339.200 BC02 SD 		SD/TRI FACET 	4463 KK, UO x 4463
4463 KK D	8	100 16 110 18	339.200 BC02 D 		D/TRI 	4463 KK D
4463 KK S	8	80 12 90 14 100 16 110 18	339.200 BC02 S 		S/NCR 	4463 KK S
UY 150 GS	6	70 027 80 032 90 036 100 040 110 044 130 052	339.200 BC04 R 		R 	UY 150 GS, UY 150 GAS, 1373, UO x 150 G
558	6	80 12 90 14 100 16 110 18 120 19 130 21	339.200 BC05 RS 		RS/SPI 	558, DO x 558
558 SAN 1	6	100 16 120 19	339.200 BC06 R 		R 	558 SAN 1

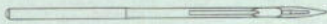
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 161 GS	21	80 032 90 036	339.201 MC01 RG 		RG	UY 161 GS
UY 180 GWS	5	100 040 110 044 125 049	341.182 AC01 R 		R	UY 180 GWS, UY 180 GKS
UY 180 GYS	5	70 027 75 029 80 032 90 036 100 040 110 044 120 048 125 049 130 052 140 054 150 060	341.182 AC02 R 		R	UY 180 GYS, UY 180 GPS, UO x 180 G
UY 180 GYS GEBEDUR	7	125 049 140 054	341.182 AD02 R 		R	UY 180 GYS, UY 180 GPS, UO x 180 G
UY 180 GXS	5	70 027 75 029 80 032 90 036 100 040 110 044 125 049 140 054 150 060	341.182 AC02 FFG 		FFG/SES	UY 180 GXS, UY 180 GNS, UY x 180 GXS
UY 180 GVS	5	100 040 110 044 125 049 140 054	341.182 AC03 R 		R	UY 180 GVS
UY 185 GLS	5	100 040	341.182 AC04 FFG 		FFG/SES	UY 185 GLS
UY 180 SAN 6	6	125 049 140 054	341.182 AC05 RG 		RG	UY 180 SAN 6, UO x 180 G SAN 6
150	7	90 036 100 040 110 044	345.200 AC01 RG 		RG	150, 29-C-150, 29 DEA, CP x 1
UY 158 GJS	18	70 027 80 032 90 036 100 040 110 044 125 049	350.201 MC01 R 		R	UY 158 GJS, UY x 158 GJS
UY 158 TJS	18	90 036	350.201 MK01 R 		R	UY 158 TJS, UY x 158 GJS
UY 158 THS	18	80 032 90 036 100 040	350.201 MK01 FFG 		FFG/SES	UY 158 THS, UY 158 TLS

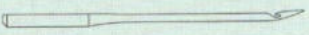
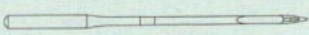
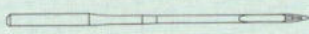
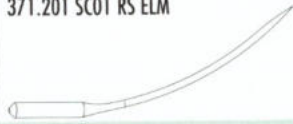
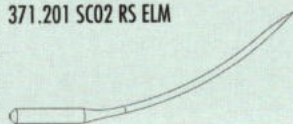
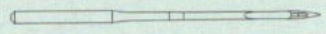
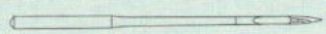
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 158 GHS FG	18	90 036 100 040 110 044	350.201 MC01 FG 		FG/SUK	UY 158 GHS
AMF 1014 - 12	27	100	353.100 QN01 RS 		RS/SPI	1014 - 12
AMF 1014 - 13	27	100	353.100 QN02 RS 		RS/SPI	1014 - 13
46 x 1	6	65 9 70 10 75 11 80 12	353.128 BC01 RS 		RS/SPI	46 x 1, 1571, PO x 1
561 - 1	7	70 27 80 32	353.150 AC01 RG 		RG	561 - 1, 555, 555 A, FL x 1 A, FL x 555
561 - 2	7	70 27 75 30 80 32	353.150 AC02 RG 		RG	561 - 2, 551, 551 A, FL x 2 A, FL x 551
12 - 500	7	160 23	353.190 AC01 R 		R	SMYTH, 12 - 500
12 - 690	22	150	355.190 FC01 R 		R	SMYTH, 12 - 690
29 BD	17	75 029 80 032 90 036 100 040 110 044	360.201 NC01 RS EM 		RS EM	29 BD, 29 BC, 1717 BE, 1717 TP, LW x 1 T
29 BK	19	100 040	360.201 NC02 RS EM 		RS EM	29 BK, 29 BJ, 29 - 39, 2186 TP
1717 SRUE	19	70 2 80 3 90 3 100 4 110 4	360.201 NC03 RS EM 		RS EM	1717 SRUE, 1717 TPU, 1717 SRU, 1717 TPUE, 1717 STE
29 BA	17	80 032 90 036 100 040 110 044	360.201 NC04 RS EM 		RS EM	29 BA

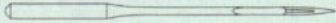
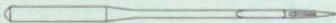
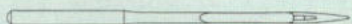
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
1717 VRUE	22	80 3 90 3 1/2	360.201 NC05 RS EM 		RS EM	1717 VRUE
29 BD SAN 1	17	90 036 100 040	360.201 NC06 RS 		RS/SPI	29 BD SAN 1
UY 118 GBS	8	70 027 75 029 80 032 90 036 100 040	366.150 AC01 RG 		RG	UY 118 GBS, FL x 118 GBS
UY 118 GBS GEBEDUR	10	70 027 75 029 80 032	366.150 AD01 RG 		RG	UY 118 GBS, FL x 118 GBS
UY 118 GHS	8	65 025 70 027 75 029 80 032 90 036	366.150 AC01 FFG 		FFG/SES	UY 118 GHS
UY 118 GHS GEBEDUR	10	75 029 80 032	366.150 AD01 FFG 		FFG/SES	UY 118 GHS
UY 118 GAS	9	65 025 70 027 75 029 80 032 90 036	366.150 BC01 RG 		RG	UY 118 GAS, FL x 118 A
UY 118 GAS GEBEDUR	12	65 025 70 027 75 029 80 032	366.150 BD01 RG 		RG	UY 118 GAS, FL x 118 A
UY 118 GAS FFG	9	65 025 70 027 75 029 80 032	366.150 BC01 FFG 		FFG/SES	UY 118 GAS, FL x 118 A
UY 118 GAS FG	9	75 029 80 032	366.150 BC01 FG 		FG/SUK	UY 118 GAS, FL x 118 A
UY 118 GKS	9	60 024 65 025 70 027 75 029 80 032 90 036	366.150 BC02 RG 		RG	UY 118 GKS
UY 118 GKS GEBEDUR	12	65 025 70 027 75 029 80 032	366.150 BD02 RG 		RG	UY 118 GKS

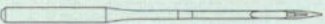
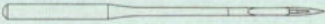
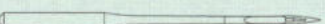
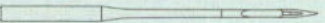
Sistema GB	GP	Groeso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
1055 K	4	80 12 90 14 100 16	366.163 AC01 R 		R 	1055 K
1065 K	6	80 12 90 14 100 16	366.163 AC02 R 		R 	1065 K
B 64	4	60 024 70 027 75 029 80 032 90 036 100 040 110 044 120 048 125 049 130 052	366.200 BC01 RG 		RG 	B 64, TV x 64, UY 192 GTS, UY 192 GBS, UY 120 GTS, UY 120 GBS
B 64 FFG	4	65 025 70 027 75 029 80 032 90 036 100 040	366.200 BC01 FFG 		FFG/SES 	B 64, TV x 64, UY 192 GLS, UY 120 GLS
B 64 FG	4	60 024 70 027 90 036	366.200 BC01 FG 		FG/SUK 	B 64, TV x 64
UY 106 GS	5	70 027 75 029 80 032 90 036 100 040 110 044 125 049	366.200 BC02 RG 		RG 	UY 106 GS, UY 106 GKS, UY 101 GS, UO x 106 G
UY 106 GHS	5	75 029 80 032	366.200 BC02 FFG 		FFG/SES 	UY 106 GHS, UY 106 GLS
UY 306 GS	7	100 040 110 044 125 049 140 054	366.200 BC02 Q 		Q/SQ 	UY 306 GS, UY 301 GS, UY 706 S
UY 506 GS	7	90 036 100 040 110 044 125 049	366.200 BC02 S 		S/NCR 	UY 506 GS, UY 501 GS
UY 108 GKS	7	80 032 90 036 100 040 110 044	366.200 BC03 RG 		RG 	UY 108 GKS, UY 120 GKS
UY 109 GS	7	90 036 100 040 110 044 140 054	366.200 BC04 RG 		RG 	UY 109 GS, UO x 109 G
UY 110 GAS	8	90 036 100 040 110 044 125 049	366.200 BC05 RG 		RG 	UY 110 GAS, UY 110 GS, UY x 110 GAS

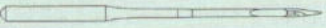
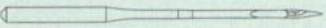
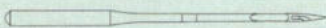
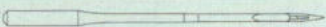
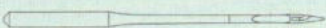
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 113 GS	8	70 027 120 048 75 029 125 049 80 032 130 052 90 036 140 054 100 040 110 044	366.200 BC06 RG 		RG	UY 113 GS, 2055, UO x 113
UY 113 GS GEBEDUR	10	70 027 75 029 80 032 90 036 100 040 110 044	366.200 BD06 RG 		RG	UY 113 GS, 2055, UO x 113
UY 113 TS	8	80 032 90 036 100 040 110 044 125 049	366.200 BK06 RG 		RG	UY 113 TS, UO x 113
UY 113 GHS	8	70 027 125 049 75 029 80 032 90 036 100 040 110 044	366.200 BC06 FFG 		FFG/SES	UY 113 GHS
UY 113 THS	8	90 036 100 040	366.200 BK06 FFG 		FFG/SES	UY 113 THS
UY 113 GES	8	110 044 125 049	366.200 BC07 RG 		RG	UY 113 GES
UY 113 GES R	8	110 044	366.200 BC07 R 		R	UY 113 GES
UY 113 GES R GEBEDUR	10	110 044	366.200 BD07 R 		R	UY 113 GES
UY 203 GS	10	80 032 90 036	366.200 BC09 RG 		RG	UY 203 GS
UY 204 GS	10	80 032 90 036	366.200 BC10 RG 		RG	UY 204 GS
UY 217 SD	12	125 049	366.200 BC13 SD 		SD/TRI FACET	UY 217 SD
UY 417 GS	10	125 049 140 054	366.200 BC13 STAY 		STAY	UY 417 GS

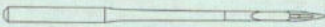
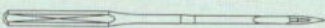
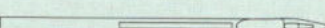
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
UY 218 SD	12	125 049	366.200 BC14 SD 		SD/TRI FACET 	UY 218 SD
UY 418 GS	10	125 140 049 054	366.200 BC14 STAY 		STAY 	UY 418 GS
UY 108 GS	7	70 75 80 90 100 110 027 029 032 036 040 044 120 125 140 048 049 054	366.200 BC21 RG 		RG 	UY 108 GS, UY 120 GS, UY 120 GAS
UY 108 TS	7	80 90 100 110 032 036 040 044	366.200 BK21 RG 		RG 	UY 108 TS, UY 120 TS, UY 120 TAS
UY 108 GHS	7	70 75 80 90 100 110 027 029 032 036 040 044 125 049	366.200 BC21 FFG 		FFG/SES 	UY 108 GHS, UY 120 GHS
UY 108 THS	7	90 036	366.200 BK21 FFG 		FFG/SES 	UY 108 THS, UY 120 THS
459 LG	7	120 140 9 7	370.140 BC01 SD 		SD/TRI FACET 	459 LG, EB x 459 LG
149 x 1	5	80 90 100 110 120 125 12 14 16 18 19 20 130 140 21 22	370.200 BC01 RG 		RG 	149 x 1, TV x 1
149 x 7	6	70 75 80 90 100 110 10 11 12 14 16 18 120 125 130 140 19 20 21 22	370.200 BC02 RG 		RG 	149 x 7, MY 1002 A, TV x 7
149 x 7 FFG	6	70 80 90 100 110 10 12 14 16 18	370.200 BC02 FFG 		FFG/SES 	149 x 7, MY 1002 A, TV x 7
149 x 7 FG	6	80 12	370.200 BC02 FG 		FG/SUK 	149 x 7, MY 1002 A, TV x 7
934	6	80 90 100 110 120 12 14 16 18 19	370.200 BC03 RG 		RG 	934, TV x 934

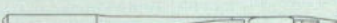
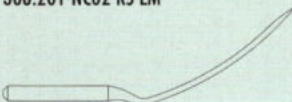
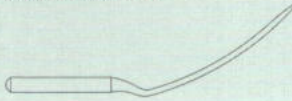
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
660	21	90 14	370.200 FC01 RS EL 		RS EL 	660, CP x 660
1985	2	65 70 75 80 85 90 9 10 11 12 13 14 100 110 120 125 16 18 19 20	371.174 AC01 RG 		RG 	1985, 175 x 1, 175 x 5, 29 S, TQ x 1, TQ x 5
1985 GEBEDUR	5	80 90 100 110 12 14 16 18	371.174 AD01 RG 		RG 	1985, 175 x 1, 175 x 5, 29 S, TQ x 1, TQ x 5
1985 R	2	80 90 100 12 14 16	371.174 AC01 R 		R 	1985, 175 x 1, 175 x 5, 29 S, TQ x 1, TQ x 5
175 x 1 FS	6	100 110 16 18	371.174 AC02 RG 		RG 	175 x 1 FS, 1985 SAN 1
29 BB	22	75 80 90 100 3 3 4	371.201 SC01 RS ELM 		RS ELM 	29 BB, 29 - 6, 1717 DC
1828 E	22	70 80 90 100 10 12 14 16	371.201 SC02 RS ELM 		RS ELM 	1828 E
31 x 1	4	90 100 110 120 130 140 14 16 18 19 21 22	373.163 AC01 R 		R 	31 x 1, FV x 1
108 x 1	3	70 75 80 90 100 110 10 11 12 14 16 18 120 125 130 19 20 21	373.163 AC02 RG 		RG 	108 x 1, BQ x 1
108 x 3	3	90 100 110 120 130 14 16 18 19 21	373.163 AC02 R 		R 	108 x 3, 3217, 71 x 5, BQ x 3, DL x 5
3217 CR	7	90 100 110 120 14 16 18 19	373.163 AC05 R 		R 	3217 CR
UY 163 GAS	7	65 70 75 80 90 100 025 027 029 032 036 040 110 044	373.200 AC01 R 		R 	UY 163 GAS, UY 8021 GS, MY 1242, UO x 163

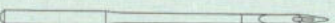
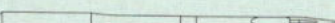
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 163 GHS	7	70 027 80 032 90 036	373.200 AC01 FFG 		FFG/SES 	UY 163 GHS, UY 8021 GHS, MY 1242, UO x 163
B 67	6	70 10 80 12 90 14 100 16	378.200 AC01 R 		R 	B 67, SM x 67
B 67 FFG	6	65 9 70 10 75 11 80 12	378.200 AC01 FFG 		FFG/SES 	B 67, SM x 67
B 67 SKL	6	70 10	378.200 AC01 SKL 		SKL 	B 67, SM x 67
505 LG	5	140 2 150 3 170 5 180 6 190	381.190 AC01 R 		R 	505 LG, 500, 1470
134 - 35	3	65 9 70 10 75 11 80 12 90 14 100 16 110 18 120 19 130 21 140 22 150 23 160 24 180 25 200	381.200 AC01 R 		R 	134 - 35, 2134 - 35, DP x 35
134 - 35 GEBEDUR	6	80 12 90 14 100 16 110 18 120 19 130 21 140 22	381.200 AD01 R 		R 	134 - 35, 2134 - 35, DP x 35
134 - 35 RS	3	100 16 110 18	381.200 AC01 RS 		RS/SPI 	134 - 35, 2134 - 35, DP x 35
134 - 35 FFG	3	70 10 75 11 80 12 90 14 100 16 110 18 120 19 130 21	381.200 AC01 FFG 		FFG/SES 	134 - 35, 2134 - 35, DP x 35
134 - 35 FG	3	70 10 80 12	381.200 AC01 FG 		FG/SUK 	134 - 35, 2134 - 35, DP x 35
134 - 35 G	3	60 8	381.200 AC01 G 		G/SKF 	134 - 35, 2134 - 35, DP x 35
134 - 35 SKL	3	60 8 70 10 80 12	381.200 AC01 SKL 		SKL 	134 - 35, 2134 - 35, DP x 35

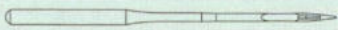
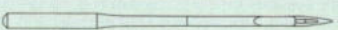
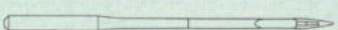
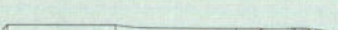
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 - 35 SD	5	100 16 110 18 120 19	381.200 AC01 SD 		SD/TRI FACET 	134 - 35 SD, 2134 - 35 SD DP x 35 SD
134 - 35 D	4	80 12 90 14 100 16 110 18 120 19 130 21 140 22 150 23 160	381.200 AC01 D 		D/TRI 	134 - 35 D, 2134 - 35 D, DP x 35 D
134 - 35 D GEBEDUR	7	200 25	381.200 AD01 D 		D/TRI 	134 - 35 D, 2134 - 35 D, DP x 35 D
134 - 35 DH	4	100 16 110 18 130 21 140 22 160 23	381.200 AC01 DH 		DH 	134 - 35 DH, 2134 - 35 DH DP x 35 DH
134 - 35 LL	4	70 10 80 12 90 14 100 16 110 18 120 19 130 21 140 22 160 23	381.200 AC01 LL 		LL/TW 	134 - 35 LL, 2134 - 35 LL, DP x 35 LL
134 - 35 LR	4	70 10 75 11 80 12 85 13 90 14 100 16 110 18 120 19 125 20 130 21 140 22 150 23 160 24 170 25 180 26 200	381.200 AC01 LR 		LR/RTW 	134 - 35 LR, 2134 - 35 LR, DP x 35 LR
134 - 35 LR GEBEDUR	7	90 14 100 16 110 18 120 19 140 22 160 23	381.200 AD01 LR 		LR/RTW 	134 - 35 LR, 2134 - 35 LR, DP x 35 LR
134 - 35 S	4	90 14 100 16 110 18 120 19 130 21 140 22 150 23 160	381.200 AC01 S 		S/NCR 	134 - 35 S, 2134 - 35 S, DP x 35 S
134 - 35 VR	4	100 16 110 18 120 19 130 21 140 22 150 23 160 24 180 25 200	381.200 AC01 VR 		VR/RTWSP 	134 - 35 VR, 2134 - 35 VR, DP x 35 VR
134 - 35 K	4	70 10 80 12 90 14 100 16 110 18 120 19 130 21	381.200 AC02 RG 		RG 	134 - 35 K, 2134 - 35 K, DP x 35 K
134 - 35 FR-B	6	80 12	381.200 AC03 R 		R 	134 - 35 FR-B
134 - 35 FL-B	6	80 12	381.200 AC04 R 		R 	134 - 35 FL-B

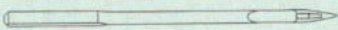
Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 - 35 CR	6	80 12 90 14 100 16 110 18 120 19 130 21	381.200 AC06 R 		R 	134 - 35 CR, 2134 - 35 CR, DP x 35 CR
134 - 35 PCR	6	130 21	381.200 AC06 P 		P/NW 	134 - 35 PCR, 2134 - 35 PCR DP x 35 PCR
134 - 35 CL	6	80 12 90 14 100 16 110 18 120 19 130 21 140 22	381.200 AC07 R 		R 	134 - 35 CL, 2134 - 35 CL DP x 35 CL
134 - 35 PCL	6	80 12 90 14 100 16 110 18 120 19 130 21 140 22 150 23 160	381.200 AC07 P 		P/NW 	134 - 35 PCL, 2134 - 35 PCL, DP x 35 PCL
2134 - 85	4	80 12 90 14 100 16 110 18 120 19 130 21	381.200 AC08 R 		R 	2134 - 85, DP x 85
2134 - 85 FFG	4	80 12	381.200 AC08 FFG 		FFG/SES 	2134 - 85, DP x 85
2134 - 85 CR	7	100 16 110 18 120 19 130 21	381.200 AC09 R 		R 	2134 - 85 CR
2134 - 85 CL	7	90 14 100 16 110 18 120 19 130 21	381.200 AC10 R 		R 	2134 - 85 CL
2134 - 35 DU KK	4	80 12 90 14 100 16 110 18 120 19 130 21	381.200 AC11 R 		R 	2134 - 35 DU KK, 2134 - 35 KK, 134 - 35 DU KK
134 - 35 CL SAN 1	6	80 12 90 14 100 16 110 18 120 19 130 21 140 22	381.200 AC12 RG 		RG 	134 - 35 CL SAN 1
134 - 35 CL SAN 1 GEBEDUR	8	80 12 90 14 110 18 120 19 140 22	381.200 AD12 RG 		RG 	134 - 35 CL SAN 1
134 - 35 CL SAN 1 SD	8	100 16 110 18 120 19 130 21 140 22	381.200 AC12 SD 		SD/TRI FACET 	134 - 35 CL SAN 1

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
134 - 35 SAN 1	3	120 19	381.200 AC13 R 		R 	134 - 35 SAN 1
134 - 35 FR	6	180 24	381.200 AC14 R 		R 	134 - 35 FR
134 - 35 F	8	90 14	381.200 AC15 R 		R 	134 - 35 F
134 - 35 FM	6	90 14	381.200 AC16 R 		R 	134 - 35 FM
805	9	120 19	381.204 AC01 R 		R 	805, SY 3241
805 LR	10	90 100 110 120 130 140 14 16 18 19 21 22 150 160 180 23 24	381.204 AC01 LR 		LR/RTW 	805 LR, SM x 805 LR
UY 924 GS	9	200 080	384.200 BC01 QR 		QR 	UY 924 GS
Myers No 5	14	150 5	384.250 AC01 D 		D/TRI 	Myers No 5
Myers No 6	17	165 6	385.250 RC01 D 		D/TRI 	Myers No 6
3551	21	120 19	386.200 AC01 R ERM 		R ERM 	3551
62 x 57	8	70 80 90 100 110 120 10 12 14 16 18 19 125 130 140 160 180 20 21 22 23 24	386.200 BC01 RG 		RG 	62 x 57, 5640, DV x 57
62 x 57 GEBEDUR	10	110 125 140 18 20 22	386.200 BD01 RG 		RG 	62 x 57, 5640, DV x 57

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
62 x 57 FFG	8	80 12 90 14 110 18 130 21	386.200 BC01 FFG 		FFG/SES 	62 x 57, 5640, DV x 57
62 x 57 FG	8	100 16 140 22	386.200 BC01 FG 		FG/SUK 	62 x 57, 5640, DV x 57
5640 D	9	100 16 110 18	386.200 BC01 D 		D/TRI 	5640 D, 62 x 40 TRI
62 x 57 SAN 1	8	180 24	386.200 BC02 R 		R 	62 x 57 SAN 1
62 x 57 SAN 6	9	125 20 140 22	386.200 BC03 RG 		RG 	62 x 57 SAN 6, DV x 57 SAN 6
62 x 57 SAN 10	9	70 10 80 12	386.200 BC04 RG 		RG 	62 x 57 SAN 10, DV x 57 KN
1669 E EO	19	60 8 70 10 80 12 90 14 100 16 110 18 120 19	386.201 NC02 RS EM 		RS EM 	1669 E EO, 1715 E, LW x 1669 E
4669 E EO	22	65 9 80 12 90 14	386.201 NC06 RS EM 		RS EM 	4669 E EO
251 EU	19	60 8 65 9 70 10 75 11 80 12 90 14 100 16	386.201 NC08 RS EM 		RS EM 	251 EU, LW x 251 EU
251 EUV	22	65 9 80 12 90 14	386.201 NC09 RS EM 		RS EM 	251 EUV
MY 1014 D	5	80 12	389.147 AC01 RG 		RG 	MY 1014 D
MY 1014 C	5	70 10 80 12 90 14	389.147 AC01 FG 		FG/SUK 	MY 1014 C

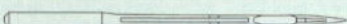
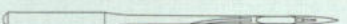
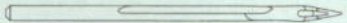
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
MY 1014 B	8	65 9 70 10 75 11 80 12 90 14	389.147 BC01 RG 		RG 	MY 1014 B, MY 1014, MY 1014 A, UY 8023 GS, UO x 8023, SM x 1014 A, SM x 1014 B
MY 1014 B GEBEDUR	10	70 10 75 11 80 12	389.147 BD01 RG 		RG 	MY 1014 B, MY 1014, MY 1014 A, UY 8023 GS, UO x 8023, SM x 1014 A, SM x 1014 B
MY 1014 B FFG	8	65 9 70 10 75 11 80 12	389.147 BC01 FFG 		FFG/SES 	MY 1014 B, MY 1014, MY 1014 A, SM x 1014 A, SM x 1014 B
126 x 3	3	90 14 100 16 110 18 140 22	389.175 AC01 R 		R 	126 x 3, 126 x 9, 126 x 1, FO x 3, FO x 9
UY 182 GAS	7	125 049 140 054	389.182 AC01 R 		R 	UY 182 GAS
332	2	80 12 90 14 100 16 110 18 120 20 125 21 130 22 140 23 160 24 180 25 200	389.198 AC01 R 		R 	332, 29 x 3, 022, DI x 3
332 GEBEDUR	5	180 24	389.198 AD01 R 		R 	332, 29 x 3, 022, DI x 3
332 LL	5	90 14 100 16 110 18 120 20 130 21 140 22 160 23 180 24	389.198 AC01 LL 		LL/TW 	332 LL, 29 x 4 NTW, 022 LL, DI x 4
332 LR	5	90 14 100 16 110 18 120 20 130 21 140 22	389.198 AC01 LR 		LR/RTW 	332 LR, 29 x 4 RTW, 022 LR, DI x 4 LR
135 x 17	2	65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18 120 20 125 21 130 22 140 23 160 24 180 25 200 26 230	389.200 AC01 R 		R 	135 x 17, DP x 17
135 x 17 GEBEDUR	5	80 12 90 14 100 16 110 18 125 20 130 21 140 22 160 23	389.200 AD01 R 		R 	135 x 17, DP x 17
135 x 17 FFG	2	70 10 75 11 80 12 90 14 100 16 110 18 125 20	389.200 AC01 FFG 		FFG/SES 	135 x 17, DP x 17

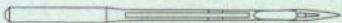
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
135 x 17 FG	2	80 12 90 14 100 16 110 18 130 21 140 22	389.200 AC01 FG 		FG/SUK 	135 x 17, DP x 17
135 x 17 SD	4	100 16	389.200 AC01 SD 		SD/TRI FACET 	135 x 17, DP x 17
135 x 16 TRI	6	110 18 125 20 130 21 140 22 160 23	389.200 AC01 D 		D/TRI 	135 x 16 TRI, DP x 16 D
135 x 16 TRI GEBEDUR	8	110 18 125 20 140 22	389.200 AD01 D 		D/TRI 	135 x 16 TRI, DP x 16 D
135 x 16 DIA	6	130 21 140 22	389.200 AC01 DI 		DI/DIA 	135 x 16 DIA, DP x 16 DIA
135 x 16 TW	6	90 14 100 16 110 18 120 19 125 20 130 21 140 22 160 23 180 24	389.200 AC01 LL 		LL/TW 	135 x 16 TW, 135 x 16 NTW, DP x 16 N
135 x 16 RTW	6	80 12 90 14 100 16 110 18 120 19	389.200 AC01 LR 		LR/RTW 	135 x 16 RTW, 135 x 16 NRTW, DP x 16 LR
135 x 16 NW	6	130 21 140 22	389.200 AC01 P 		P/NW 	135 x 16 NW, DP x 16
UY 121 GBS	4	65 025 70 027 75 029 80 032 90 036 100 040	389.200 AC03 FFG 		FFG/SES 	UY 121 GBS, MY 1046, UY x 121 GBS
135 x 17 SAN 1	2	160 23 180 24	389.200 AC05 R 		R 	135 x 17 SAN 1
135 x 17 CL SAN 1	4	80 12 100 16 120 19 140 22	389.200 AC06 RG 		RG 	135 x 17 CL SAN 1
135 x 17 SAN 6	3	125 20 140 22	389.200 AC07 RG 		RG 	135 x 17 SAN 6, DP x 17 SAN 6

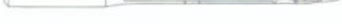
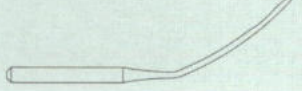
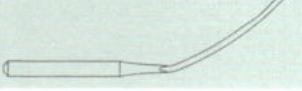
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
8169	6	160 23	389.200 AC08 R 		R	8169
UY 128 GAS	7	60 65 70 75 80 85 024 025 027 029 032 034 90 100 110 120 125 130 036 040 044 048 049 052 140 150 160 170 054 060 063 067	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, UO x 128 L

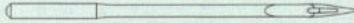
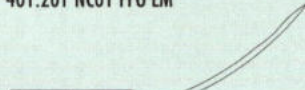
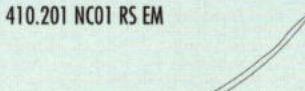
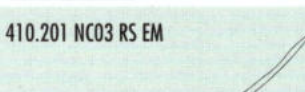
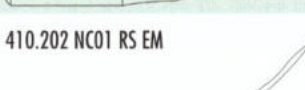
Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 128 TLS	7	100 040 110 044 140 054	389.200 BK04 FFG 	+	FFG/SES	UY 128 TLS, UO x 128 L
UY 128 GS	7	80 032 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

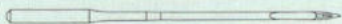
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
62 x 43	8	120 048 125 049 140 054 150 060	→ 2.44 389.200 BC12 RG 		RG	UY 130 GS, 62 x 43, UO x 130 G
B 63	4	60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18 120 19 130 21 140 22	389.200 BC10 RG 		RG	B 63, DV x 63, RM x 63, UY 121 GAS
B 63 GEBEDUR	7	60 8 65 9 70 10 75 11 80 12 90 14	389.200 BD10 RG 		RG	B 63, DV x 63, RM x 63, UY 121 GAS
B 63 R	4	65 9 70 10 75 11 80 12 90 14 100 16 110 18 120 19 130 21 140 22	389.200 BC10 R 		R	B 63, DV x 63, RM x 63
B 63 FFG	4	55 7 60 8 65 9 70 10 75 11 80 12 85 13 90 14 100 16 110 18 120 19	389.200 BC10 FFG 		FFG/SES	B 63, DV x 63, RM x 63
B 63 FFG GEBEDUR	7	60 8 65 9 70 10 75 11 80 12 90 14	389.200 BD10 FFG 		FFG/SES	B 63, DV x 63, RM x 63
B 63 FG	4	60 8 65 9 70 10 75 11 80 12 90 14 100 16 110 18	389.200 BC10 FG 		FG/SUK	B 63, DV x 63, RM x 63
B 63 FG GEBEDUR	7	65 9 70 10 75 11 80 12	389.200 BD10 FG 		FG/SUK	B 63, DV x 63, RM x 63
B 63 SKL	4	65 9 70 10 75 11 80 12	389.200 BC10 SKL 		SKL	B 63, DV x 63, RM x 63
UY 130 GHS	8	80 032 90 036 100 040 110 044 125 049 140 054	389.200 BC11 FFG 		FFG/SES	UY 130 GHS, UY x 130 GHS
UY 130 GS	8	90 036 100 040 110 044	389.200 BC12 RG 		RG	UY 130 GS, UO x 130 G
	8	120 048 125 049 140 054 150 060	389.200 BC12 RG 		RG	UY 130 GS, 62 x 43, UO x 130 G

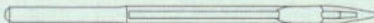
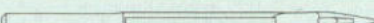
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 130 TS	8	125 049 140 054	389.200 BK12 RG 		RG 	UY 130 TS, 62 x 43
UY 130 GS R	8	110 044	389.200 BC12 R 		R 	UY 130 GS, UO x 130 G
	8	140 054	389.200 BC12 R 		R 	UY 130 GS, 62 x 43, UO x 130 G
470 KA	8	85 10 100 110 120 130 140 10 8 6 4 2 1 150 0	389.200 BC14 RS EM 		RS EM 	470 KA, PF x 470 KA
5463 - 35	9	90 14 100 110 16 18	389.200 BC15 R 		R 	5463 - 35
971 B1	11	80 12 90 100 110 14 16 18	389.200 BC16 R 		R 	971 B1, DV x 971 B, SM x 971 B
UY 133 GS	9	70 027 80 90 100 110 120 032 036 040 044 048 125 140 049 054	389.200 BC17 RG 		RG 	UY 133 GS, UY x 133 GS 104 SC
UY 133 TS	9	100 040 110 044	389.200 BK17 RG 		RG 	UY 133 TS, UY x 133 GS 104 SC
FD 5	14	200 5	389.200 BC18 Q 		Q/SQ 	FD 5, D - 5, BC x 5
UY 8461 GS	8	100 040	389.200 BC21 FFG 		FFG/SES 	UY 8461 GS
FD 5 FR	16	200 5	389.200 BC22 Q 		Q/SQ 	FD 5 FR
123 - 14 LG	9	180 24 200 25	389.200 BC24 Q 		Q/SQ 	123 - 14 LG

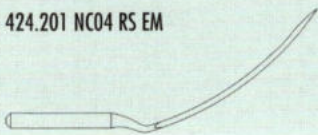
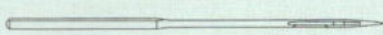
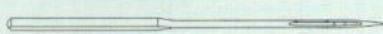
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 128 GJS	8	90 036 100 040 110 044 120 048 125 049 140 054	389.200 BC25 RG 	+	RG	UY 128 GJS
	8	60 024 65 025 70 027 75 029 80 032	→ 2.47 389.200 BC34 RG 	+	RG	UY 128 SAN 10, UY 128 GJS, TV x 3 KN
UY 128 GJS GEBEDUR	10	110 044 125 049 140 054	389.200 BD25 RG 	+	RG	UY 128 GJS
UY 128 TJS	8	125 049 140 054	389.200 BK25 RG 	+	RG	UY 128 TJS, UY 128 TAS - 2
UY 121 GS	4	65 025 70 027 75 029 80 032 85 034 90 036 100 040 110 044	389.200 BC26 RG 	+	RG	UY 121 GS, 62 x 21, MY 1001, UY x 121
	4	125 049 140 054	→ 2.43 389.200 BC06 RG 	+	RG	1280 KSP, UY 121 GS, UY 121 GKS, 62 x 21, MY 1001, UY x 121
UY 121 GHS	4	65 025 70 027 75 029 80 032 90 036 100 040	389.200 BC26 FFG 	+	FFG/SES	UY 121 GHS, 62 x 21, MY 1001, UY x 121
B 63 SAN 10	5	60 8 65 9 70 10 75 11	389.200 BC29 RG 	+	RG	B 63 SAN 10, DV x 63 KN
B 63 SAN 10 GEBEDUR	7	65 9 70 10 75 11	389.200 BD29 RG 	+	RG	B 63 SAN 10, DV x 63 KN
B 63 SAN 10 FG	5	65 9 70 10	389.200 BC29 FG 	+	FG/SUK	B 63 SAN 10, DV x 63 KN
UY 121 GJS	5	90 036	389.200 BC30 RG 	+	RG	UY 121 GJS, 1280 KSP - 2
	5	55 022 60 024 65 025 70 027 75 029 80 032	→ 2.46 389.200 BC35 RG 	+	RG	1280 KSP SAN 10, UY 121 GJS, DV x 1 KN

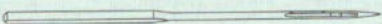
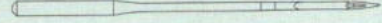
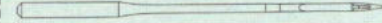
Sistema GB	GP	Gruesso de aguja						Designación de Catálogo e Ilustración (1:1)	Caña/Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas						Ilustração (1:1)		Ponta	Sistemas das agulhas
UY 128 SAN 6	8	110 044	120 048	125 049	140 054			389.200 BC33 RG 			UY 128 SAN 6, UY x 128 SAN 6, TV x 3 SAN 6
UY 128 SAN 10	8	60 024	65 025	70 027	75 029	80 032		389.200 BC34 RG 			UY 128 SAN 10, UY 128 GJS, TV x 3 KN
1280 KSP SAN 10	5	55 022	60 024	65 025	70 027	75 029	80 032	389.200 BC35 RG 			1280 KSP SAN 10, UY 121 GJS, DV x 1 KN
1280 KSP SAN 10 GEBEDUR	7	65 025	70 027	75 029				389.200 BD35 RG 			1280 KSP SAN 10, UY 121 GJS, DV x 1 KN
DV x 1	4	65 9 110 18	70 10 120 19	75 11	80 12	90 14	100 16	389.200 BC36 RG 			DV x 1
DV x 1 FFG	4	65 9 110 18	70 10 120 19	75 11	80 12	90 14	100 16	389.200 BC36 FFG 			DV x 1
251	17	60 00 90 2%	65 0 95 3	70 %	75 1 110 4	80 1 1/2 120 4%	85 2 140 5%	389.201 NC01 RS EM 			251, 29 BNS, 29-C-300, LW x 3 T, LW x 4 T
251 FFG	17	75 1	80 1 1/2	90 2%				389.201 NC01 FFG EM 			251
251 V	21	65 0	80 1%	90 2%				389.202 NC01 RS EM 			251 V
Myers No 2	14	75 2						389.250 AC01 D 			Myers No 2
MY 1014 H	8	65 9	70 10	75 11	80 12	90 14		391.147 BC01 RG 			MY 1014 H
MY 1014 H GEBEDUR	10	70 10	75 11	80 12				391.147 BD01 RG 			MY 1014 H

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
MY 1014 H FFG	8	75 11	391.147 BC01 FFG 		FFG/SES	MY 1014 H
MY 1014 H FM	9	70 10 80 12	391.147 BC03 RG 		RG	MY 1014 H FM
B 1014	9	80 12	391.148 BC01 RG 		RG	B 1014
STITCHDOWN 1 E	15	215 5	397.297 AC01 RG 		RG	Stitchdown 1E, TLM 29
16 x 63 H	5	140 22 160 23 180 24 200 25 230 26	401.200 AC01 R 		R	16 x 63 H, 16 x 113, 2077, TF x 63
29 BL	19	60 024 65 025 70 027 75 029 80 032 90 036	401.201 NC01 RS EM 		RS EM	29 BL, 29 - 49, 29 - 34, 2140 TP, LW x 2 T, LW x 6 T
29 BL FFG	19	90 036	401.201 NC01 FFG EM 		FFG EM	29 BL, 29 - 49, 29 - 34, 2140 TP
29 BLV	22	65 025 80 032 90 036	401.201 NC02 RS EM 		RS EM	29 BLV
251 EL	17	60 00 65 05 70 10 75 15 80 20 85 25	410.201 NC01 RS EM 		RS EM	251 EL, 300 GEB, 29 BNL, 29-C-300 LG, LW x 5 T
251 EL FFG	17	75 10 80 15 85 20 90 25 100 35	410.201 NC01 FFG EM 		FFG EM	251 EL, 300 GEB, 29 BNL, 29-C-300 LG, LW x 5 T
251 LG	17	65 00 70 05 75 10 80 15 85 20 90 25	410.201 NC03 RS EM 		RS EM	251 LG
251 ELV	21	65 00 80 15 90 25	410.202 NC01 RS EM 		RS EM	251 ELV

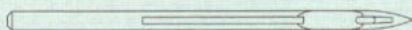
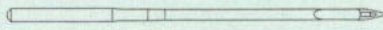
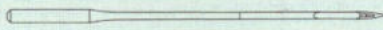
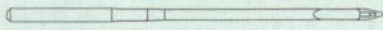
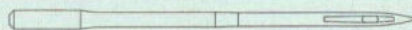
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
2018	3	70 10 125 20 80 12 140 22 90 14 100 16 110 18 120 19	412.174 AC01 RG 		RG	2018, 175 x 3, 1986, TQ x 3
81	5	90 1 100 2 110 3 120 4 130 5 140	414.198 AC01 R 		R	81, LA x 81
149 x 5	6	70 10 75 11 80 12 90 14 100 16 110 18	414.200 BC01 RG 		RG	149 x 5, 62 x 45, 62 x 53, 62 x 83, TV x 5
149 x 5	6	120 19 125 20 130 21 140 22 160 23	414.200 BC01 RG 		RG	149 x 5, TV x 5
62 x 45	6	120 19 130 21 140 22	414.200 BC02 R 		R	62 x 45, 62 x 53, 62 x 83
	6	70 10 75 11 80 12 90 14 100 16 110 18	→ 2.48 414.200 BC01 RG 		RG	149 x 5, 62 x 45, 62 x 53, 62 x 83, TV x 5
62 x 59	9	130 21 140 22 160 23 180 24	414.200 BC03 RG 		RG	62 x 59, 114 SC, DV x 59
933	6	90 14 100 16 110 18 120 19	414.200 BC05 R 		R	933
62 x 59 SAN 1	10	180 24	414.200 BC06 R 		R	62 x 59 SAN 1
149 x 5 SAN 6	7	125 20 130 21 140 22	414.200 BC07 RG 		RG	149 x 5 SAN 6, TV x 5 SAN 6
506 LG	9	230 8	421.196 AC01 R 		R	506 LG, SG x 506
506 Q LG	11	230 8	421.196 AC01 Q 		Q/SQ	506 Q LG

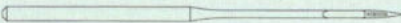
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
14 SP	8	150 060	421.198 BC02 QR 		QR 	14 SP
UY 943 GA	13	200 080	421.200 AC01 QR 		QR 	UY 943 GA
UY 143 GS	11	140 150 170 200 230 250 054 060 067 080 090 100	421.200 BC01 R 		R 	UY 143 GS, 92 x 1, MY 1013, DN x 1
UY 143 TS	11	230 090	421.200 BK01 R 		R 	UY 143 TS, 92 x 1, MY 1013, DN x 1
UY 943 GS	13	170 185 200 230 250 067 073 080 090 100	421.200 BC01 QR 		QR 	UY 943 GS, UY 947 GS, SM x 1040
UY 143 GS KSP	11	230 090	421.200 BC02 R 		R 	UY 143 GS KSP
UY 143 GS KSP S	13	230 090	421.200 BC02 S 		S/NCR 	UY 143 GS KSP S
UY 144 GS	7	200 230 080 090	421.200 BC03 R 		R 	UY 144 GS
UY 947 GA	13	200 080	421.200 BC06 QR 		QR 	UY 947 GA
UY 9857 T	25	200 080	421.304 TK01 R 		R 	UY 9857 T
UY 9854 GS	26	200 230 080 090	421.304 TC01 Q 		Q/SQ 	UY 9854 GS, UO x 9854
1671 E EO	19	70 80 90 100 110 10 12 14 16 18	424.201 NC01 RS EM 		RS EM 	1671 E EO, 1671 R, 1671 R EO

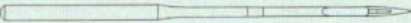
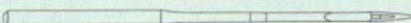
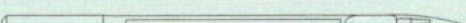
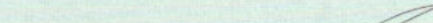
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
4671 E EO	22	80 12	424.201 NC04 RS EM 		RS EM	4671 E EO
UY 147 GS	8	80 90 100 110 125 140 032 036 040 044 049 054 150 170 060 067	427.200 BC01 R 		R	UY 147 GS, UO x 147 GA
UY 147 TS	8	125 140 049 054	427.200 BK01 R 		R	UY 147 TS, UO x 147 GA
UY 147 GKS	8	110 125 140 044 049 054	427.200 BC02 R 		R	UY 147 GKS
UY 9858 GS	23	200 080	427.304 TC01 R 		R	UY 9858 GS
1207	7	190	430.190 AC01 R 		R	1207
854 S	6	70 80 90 100 110 130 00 0 1 2 3 4	435.140 AC01 RS 		RS/SPI	854 S, SH x 1
854 S FFG	6	70 80 90 100 00 0 1 2	435.140 AC01 FFG 		FFG/SES	854 S, SH x 1
854 S FG	6	80 90 100 110 0 1 2 3	435.140 AC01 FG 		FG/SUK	854 S, SH x 1
854 S TR	6	70 80 90 100 00 0 1 2	435.140 AC02 TR 		TR	854 S TR, SH x 1 Y
110 S	6	80 90 100 110 0 1 2 3	435.160 AC01 RS 		RS/SPI	110 S, SH x 3
110 S FFG	6	80 90 100 110 0 1 2 3	435.160 AC01 FFG 		FFG/SES	110 S, SH x 3

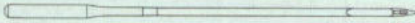
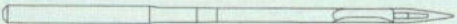
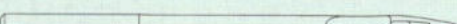
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta Ponta	Sistemas de agujas Sistemas das agulhas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)			
110 S FG	6	80 0 90 1 100 2 110 3	435.160 AC01 FG 		FG/SUK	110 S, SH x 3
110 S TR	6	90 1 100 2	435.160 AC02 TR 		TR	110 S TR, SH x 3 Y
0854	6	80 0 90 1 100 2 110 3	435.200 AC01 RS 		RS/SPI	0854, 0854 V
228 LR	12	200 25 250 27	435.250 AC01 LR 		LR/RTW	228 LR
367 S	10	140 22	445.0 DC01 RS 		RS/SPI	367 S
367 S	10	100 16 110 18 120 19	445.132 BC01 RS 		RS/SPI	367 S
367 S LG	10	110 18 120 19 130 21	445.132 BC02 RS 		RS/SPI	367 S LG
	10	140 22 160 23 180 24	→ 2.54 475.0 DC01 RS 		RS/SPI	367 S LG
190	4	70 10 80 12 90 14 100 16 110 18 120 19 130 21 140 22 150 23 160 24 180 25 200	445.200 AC01 R 		R	190, 150 SC, MT x 190
190 FFG	4	110 18	445.200 AC01 FFG 		FFG/SES	190, 150 SC, MT x 190
190 LR	6	110 18 120 19 130 21 160 23	445.200 AC01 LR 		LR/RTW	190 LR, MT x 190 LR
190 K	4	65 9 70 10 80 12 90 14 100 16 110 18 120 19 130 21	445.200 AC02 RG 		RG	190 K, MT x 190 K

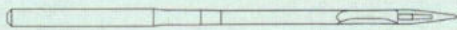
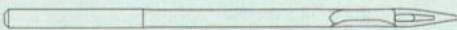
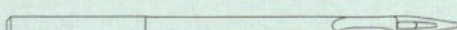
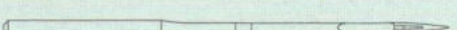
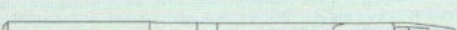
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)			Sistemas das agulhas
190 K SAN 1	9	80 12	445.200 AC04 RG 		RG	190 K SAN 1
190 K SAN 2	9	80 12	445.200 AC05 RG 		RG	190 K SAN 2
190 SAN 3	9	90 14	445.200 AC06 RG 		RG	190 SAN 3
190 SAN 4	9	90 14	445.200 AC07 RG 		RG	190 SAN 4
71 L	18	100 16 110 18 120 19 140 22	445.200 BC01 RS EL 		RS EL	71 L, 71 EL, LA x 71 EL
	18	160 23	→ 2.56 492.200 BC01 RS EL 		RS EL	71 L, 71 EL, LA x 71 EL
	18	180 24 200 25	→ 2.60 525.200 BC01 RS EL 		RS EL	71 L, 71 EL, LA x 71 EL
71 R	18	120 19 140 22	445.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
	18	160 23	→ 2.56 492.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
	18	180 24	→ 2.61 525.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
190/2	9	90 14	445.200 BC03 RG 		RG	190/2
129 x 1	6	90 14 100 16 110 18 125 20 140 22	449.175 AC01 R 		R	129 x 1, EE x 1
						

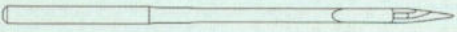
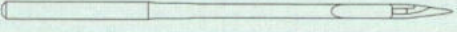
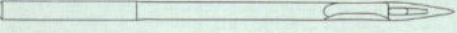
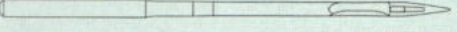
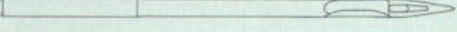
Sistema GB	GP	Grueso de aguja								Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas	
Sistema GB	GP	Grossuras das agulhas								Ilustração (1:1)		Ponta	Sistemas das agulhas	
92 x 27 DIA	14	250 27								464.252 BC02 DI			DI/DIA	92 x 27 DIA
2091	3	65 9	70 10	75 11	80 12	85 13	90 14		470.174 AC01 RG			RG	2091, 175 x 7, 29 L, 2091 LGK, TQ x 7	
	3	100 16	110 18	120 19	125 20				470.174 AC01 RG			RG	2091, 175 x 7, 175 x 9, 29 L, 29 LSS, 1987, TQ x 9	
2091 GEBEDUR	6	80 12	90 14	100 16	110 18				470.174 AD01 RG			RG	2091, 175 x 7, 29 L, 2091 LGK, TQ x 7	
2091 KK	5	80 12	90 14	100 16	110 18	120 19	125 20		470.174 AC02 RG			RG	2091 KK, 29 LES, 175 x 7 KK, TQ x N14	
29 LSS	3	80 12	90 14	100 16	110 18	120 19	125 20		470.174 AC03 RG			RG	29 LSS, 175 x 9, 1987, LS x 18, TQ x 9	
	3	130 21	140 22						→ 2.54 470.174 AC01 RG			RG	2091, 175 x 7, 175 x 9, 29 L, 29 LSS, 1987, TQ x 9	
126 x 11	9	140 22							470.200 BC01 R			R	126 x 11	
Myers No 8	17	180 8							470.250 AC01 D			D/TRI	Myers No 8	
367 S LG	10	140 22	160 23	180 24					475.0 DC01 RS			RS/SPI	367 S LG	
	10	110 18	120 19	130 21					→ 2.52 445.132 BC02 RS			RS/SPI	367 S LG	
110 S TOP	6	80 0	90 1	100 2	110 3				475.160 AC01 RS			RS/SPI	110 S Top	

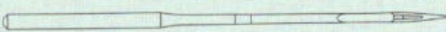
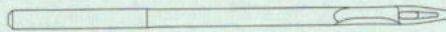
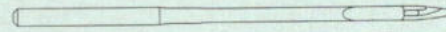
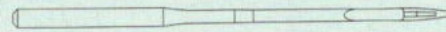
Sistema GB	GP	Groeso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
L 83	6	100 2	475.160 AC02 RS 		RS/SPI	L 83
175 H	3	90 100 110 120 130 150 14 16 18 19 21	485.190 AC01 R 		R	175 H, US x 175 H
215 AH	4	100 110 130 16 18 21	485.190 AC02 R 		R	215 AH, 657 H, LA x 215
215 AH FFG	4	90 100 110 130 14 16 18 21	485.190 AC02 FFG 		FFG/SES	215 AH, 657 H, LA x 215
88 H	3	130 5	485.190 AC03 R 		R	88 H
88 HK	5	90 100 110 130 150 1 2 3 5 6	485.190 AC04 R 		R	88 HK, 175 HK, LA x 88
88	8	90 100 150 1 2 6	485.190 AC05 R 		R	88, DU x 1
88 LR	8	100 110 120 130 140 160 2 3 4 5 6	485.190 AC05 LR 		LR/RTW	88 LR, 175 LR, DU x 2 LR
332 LG	3	100 110 120 130 140 150 16 18 19 21 22 160 180 200 23 24 25	485.198 AC01 R 		R	332 LG, AR x 332 LG
332 LGH KSP	4	90 100 14 16	485.198 AC02 R 		R	332 LGH KSP, SM x 332 LG
332 LGH KSP RG	4	90 100 110 120 14 16 18 19	485.198 AC02 RG 		RG	332 LGH KSP, SM x 332 LG
332 LGH KSP KK	4	110 120 18 19	485.198 AC03 R 		R	332 LGH KSP KK

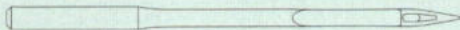
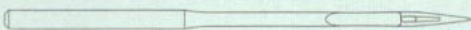
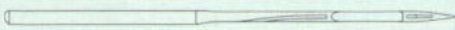
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
490	3	110 ₂ 120 ₃ 140 ₅	490.200 AC01 R 		R 	490, 860, 2331, EB x 1
490 FFG	3	120 ₃	490.200 AC01 FFG 		FFG/SES 	490, 860, 2331, EB x 1
490 F	9	90 ₀ 100 ₁ 110 ₂ 120 ₃ 140 ₅	490.200 AC02 R 		R 	490 F, 862, 2331 F, EB x 2
71 L	18	160 ₂₃	492.200 BC01 RS EL 		RS EL 	71 L, 71 EL, LA x 71 EL
	18	100 ₁₆ 110 ₁₈ 120 ₁₉ 140 ₂₂	→ 2.53 445.200 BC01 RS EL 		RS EL 	71 L, 71 EL, LA x 71 EL
	18	180 ₂₄ 200 ₂₅	→ 2.60 525.200 BC01 RS EL 		RS EL 	71 L, 71 EL, LA x 71 EL
71 R	18	160 ₂₃	492.200 BC02 RS ER 		RS ER 	71 R, 71 ER, LA x 71 ER
	18	120 ₁₉ 140 ₂₂	→ 2.53 445.200 BC02 RS ER 		RS ER 	71 R, 71 ER, LA x 71 ER
	18	180 ₂₄	→ 2.61 525.200 BC02 RS ER 		RS ER 	71 R, 71 ER, LA x 71 ER
604 FE	25	90 ₀ 100 ₁ 110 ₂ 120 ₃	496.202 MC01 RS EM 		RS EM 	604 FE, DAVIS LOOPER, PYA - 2
	25	130 ₄ 150 ₅	→ 2.61 528.202 MC01 RS EM 		RS EM 	604 FE, DAVIS LOOPER, PYA - 2
	25	160 ₆	→ 2.62 560.202 MC01 RS EM 		RS EM 	604 FE, DAVIS LOOPER, PYA - 2

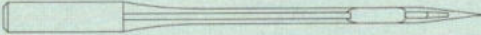
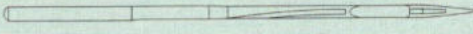
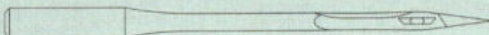
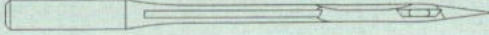
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Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
29 ELS	6	100 16 110 18 125 20	517.174 AC01 RG 		RG	29 ELS
328	9	110 18 120 19 130 21 140 22	520.200 AC01 R 		R	328, 214 x 1, DD x 1
	9	160 23 180 24	→ 2.58 520.230 AC01 R 		R	328, 214 x 1, DD x 1
	9	200 25 230 26 250 27 280 28	→ 2.58 520.250 AC01 R 		R	328, 214 x 1, DD x 1
328 LL	11	130 21 140 22	520.200 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
	11	160 23 180 24	→ 2.58 520.230 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
	11	200 25 230 26 250 27	→ 2.59 520.250 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
328 LR	11	120 19 130 21 140 22	520.200 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
	11	160 23 180 24	→ 2.58 520.230 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
	11	200 25 230 26 250 27	→ 2.59 520.250 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
SY 8160	15	110 18 130 21	520.200 AC03 R 		R	SY 8160
328 FL-E	13	110 18 120 19 130 21	520.200 AC04 R 		R	328 FL-E

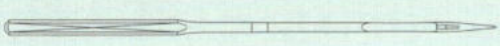
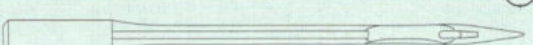
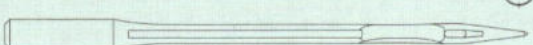
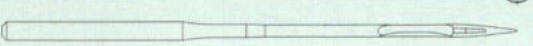
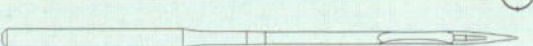
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)	Tronco	Ponta	Sistemas das agulhas
328	9	160 23 180 24	520.230 AC01 R 		R	328, 214 x 1, DD x 1
	9	110 18 120 19 130 21 140 22	→ 2.57 520.200 AC01 R 		R	328, 214 x 1, DD x 1
	9	200 25 230 26 250 27 280 28	→ 2.59 520.250 AC01 R 		R	328, 214 x 1, DD x 1
328 EM	15	160 23 180 24	520.230 AC01 R EM 		R EM	328 EM
328 LL	11	160 23 180 24	520.230 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
	11	130 21 140 22	→ 2.57 520.200 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
	11	200 25 230 26 250 27	→ 2.59 520.250 AC01 LL 		LL/TW	328 LL, 214 x 2 NTW, 214 x 2 TW
328 LR	11	160 23 180 24	520.230 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
	11	120 19 130 21 140 22	→ 2.57 520.200 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
	11	200 25 230 26 250 27	→ 2.59 520.250 AC01 LR 		LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
328 S	12	180 24	520.230 AC01 S 		S/NCR	328 S, 214 x 2 NCR
	12	200 25 230 26	→ 2.60 520.250 AC01 S 		S/NCR	328 S, 214 x 2 NCR

Sistema GB	GP	Gruesso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
216 x 1	15	160 23 180 24	520.230 AC02 R 			216 x 1, CY x 1
	15	200 25 250 27	→ 2.60 520.250 AC02 R 			216 x 1, CY x 1
216 x 2 NW	18	180 24	520.230 AC02 P 			216 x 2 NW
328 A	9	200 25	520.230 AC03 R 			328 A, DD x 328 A
328	9	200 230 250 280 25 26 27 28	520.250 AC01 R 			328, 214 x 1, DD x 1
	9	110 120 130 140 18 19 21 22	→ 2.57 520.200 AC01 R 			328, 214 x 1, DD x 1
	9	160 180 23 24	→ 2.57 520.230 AC01 R 			328, 214 x 1, DD x 1
328 DI	12	200 230 250 25 26 27	520.250 AC01 DI 			328 DI, 214 x 2 DIA
328 LL	11	200 230 250 25 26 27	520.250 AC01 LL 			328 LL, 214 x 2 NTW, 214 x 2 TW
	11	130 140 21 22	→ 2.57 520.200 AC01 LL 			328 LL, 214 x 2 NTW, 214 x 2 TW
	11	160 180 23 24	→ 2.58 520.230 AC01 LL 			328 LL, 214 x 2 NTW, 214 x 2 TW
328 LR	11	200 230 250 25 26 27	520.250 AC01 LR 			328 LR, 214 x 2 RTW, DD x 2 LR

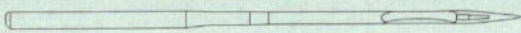
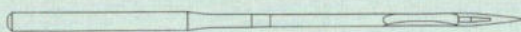
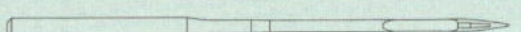
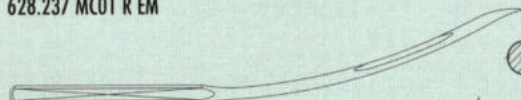
Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
328 LR	11	120 130 140 19 21 22	→ 2.57 520.200 AC01 LR 	+	LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
	11	160 180 23 24	→ 2.58 520.230 AC01 LR 	+	LR/RTW	328 LR, 214 x 2 RTW, DD x 2 LR
328 P	12	200 230 25 26	520.250 AC01 P 	+	P/NW	328 P, 214 x 2 NW
328 S	12	200 230 25 26	520.250 AC01 S 	+	S/NCR	328 S, 214 x 2 NCR
	12	180 24	→ 2.58 520.230 AC01 S 	+	S/NCR	328 S, 214 x 2 NCR
216 x 1	15	200 250 25 27	520.250 AC02 R 	+	R	216 x 1, CY x 1
	15	160 180 23 24	→ 2.59 520.230 AC02 R 	+	R	216 x 1, CY x 1
428	9	160 180 23 24	520.250 AC03 R 	+	R	428
428 S	12	160 23	520.250 AC03 S 	+	S/NCR	428 S
216 x 7	21	230 280 26 28	520.350 AC01 R 	+	R	216 x 7, CY x 7
71 L	18	180 200 24 25	525.200 BC01 RS EL 	⊗	RS EL	71 L, 71 EL, LA x 71 EL
	18	100 110 120 140 16 18 19 22	→ 2.53 445.200 BC01 RS EL 	⊗	RS EL	71 L, 71 EL, LA x 71 EL

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	18	160 23	→ 2.56 492.200 BC01 RS EL 		RS EL	71 L, 71 EL, LA x 71 EL
71 R	18	180 24	525.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
	18	120 19 140 22	→ 2.53 445.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
	18	160 23	→ 2.56 492.200 BC02 RS ER 		RS ER	71 R, 71 ER, LA x 71 ER
752	15	190 230 26	525.304 AC01 R 		R	752
604 FE	25	130 150 4 5	528.202 MC01 RS EM 		RS EM	604 FE, DAVIS LOOPER, PYA - 2
	25	90 100 110 120 0 1 2 3	→ 2.56 496.202 MC01 RS EM 		RS EM	604 FE, DAVIS LOOPER, PYA - 2
	25	160 6	→ 2.62 560.202 MC01 RS EM 		RS EM	604 FE, DAVIS LOOPER, PYA - 2
7 x 23	14	140 160 180 200 230 250 22 23 24 25 26 27	528.250 AC01 R 		R	7 x 23, DY x 23
7 x 23 FFG	14	140 160 180 200 22 23 24 25	528.250 AC01 FFG 		FFG/SES	7 x 23, DY x 23
SY 8145	14	130 21	535.200 BC01 RG 		RG	SY 8145
950 SC	9	80 90 100 110 2/0 0 1 2	535.240 AC01 R 		R	950 SC, RE x 1

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
958 SC	10	100 1	535.240 AC01 QR 		QR 	958 SC
950 A	9	90 14 100 16 110 18	535.240 AC02 R 		R 	950 A, RE x 2
DR x 2	20	200 25 230 26	535.394 BC01 Q 		Q/SQ 	DR x 2, 124 x 2, UY 1973
UY 174 GS	21	270 067 200 080 230 090	538.394 BC01 R 		R 	UY 174 GS
550 QMA	15	160 23	540.200 BC01 R 		R 	550 QMA, DV x 600
UY 1970 A	22	200 080	540.394 AC01 Q 		Q/SQ 	UY 1970 A, UO x 1970 A
1970 A SAN 1	23	230 090	540.394 AC02 Q 		Q/SQ 	1970 A SAN 1
UY 9844 GA	22	200 080 230 090 250 100	540.394 BC01 Q 		Q/SQ 	UY 9844 GA
UY 1970 G	22	200 080 230 090 250 100	540.394 BC02 Q 		Q/SQ 	UY 1970 G, UO x 1970
2331 FLG	10	110 2 130 4	560.200 AC01 R 		R 	2331 F LG, 490 F LG, EB x 3
604 FE	25	160 6	560.202 MC01 RS EM 		RS EM 	604 FE, DAVIS LOOPER, PYA - 2
	25	90 0 100 1 110 2 120 3	→ 2.56 496.202 MC01 RS EM 		RS EM 	604 FE, DAVIS LOOPER, PYA - 2

Sistema GB	GP	Gruesa de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
	25	130 4 150 5	→ 2.61 528.202 MC01 RS EM 		RS EM	604 FE, DAVIS LOOPER, PYA - 2
SY 8168	14	110 18 120 19 130 21	575.200 AC01 R 		R	SY 8168
9168	15	120 19 130 21	575.200 AC02 R 		R	9168
9168 FFG	15	130 21	575.200 AC02 FFG 		FFG/SES	9168
UY 9856 T	21	200 080 250 100	580.394 BK01 R 		R	UY 9856 T
UY 9848 GS	21	170 067 200 080 250 100	580.394 BC02 Q 		Q/SQ	UY 9848 GS
UY 1975 G	21	200 080 230 090 250 100	585.394 BC01 Q 		Q/SQ	UY 1975 G, UO x 1975
794 H	12	120 19 130 21 140 22 160 23 180 24 200 25 230 26 250 27	600.250 AC01 R 		R	794 H, DY x 3
794 H FFG	12	130 21 160 23	600.250 AC01 FFG 		FFG/SES	794 H, DY x 3
794 D	15	160 23 180 24 200 25	600.250 AC01 D 		D/TRI	794 D, 7 x 2 TRI, 7 x 6 TRI, DY x 3 D
794 LR	15	160 23 200 25 250 27	600.250 AC01 LR 		LR/RTW	794 LR, 7 x 4 RTW, DY x 2 LR
794 H FR	20	130 21 140 22 160 23 180 24 200 25 230 26 250 27	600.250 AC03 R 		R	794 H FR

* = GEBEDUR

Sistema GB	GP	Grueso de aguja	Designación de Catálogo e Ilustración (1:1)	Caña/ Cabo Tronco	Punta	Sistemas de agujas
Sistema GB	GP	Grossuras das agulhas	Ilustração (1:1)		Ponta	Sistemas das agulhas
794 H FR FFG	20	130 21 160 23	600.250 AC03 FFG 		FFG/SES 	794 H FR
794 H FL	20	130 21 160 23 180 24 200 25	600.250 AC05 R 		R 	794 H FL, 793 FL
794 FLM	19	180 24	600.250 AC06 R 		R 	794 FLM
794 FLM FFG	19	140 22 160 23	600.250 AC06 FFG 		FFG/SES 	794 FLM
7 x 3 KF	20	160 23	600.250 AC08 R 		R 	7 x 3 KF, 794 H KF
794 SAN 1	19	180 24	600.250 BC01 RG 		RG 	794 SAN 1
PYA - 4	22	120 3 130 4 150 5 160 6	628.237 MC01 R EM 		R EM 	PYA - 4
C 100 S	24	250 27	647.315 TC01 Q 		Q/SQ 	C 100 S, BC x 100

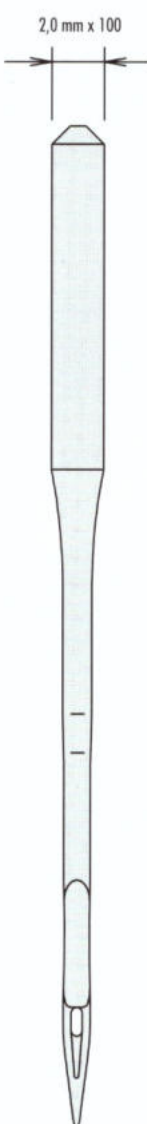
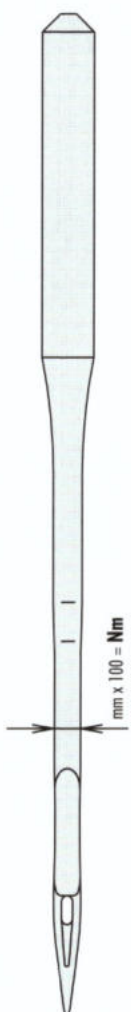
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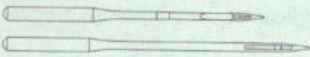
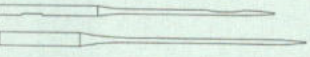
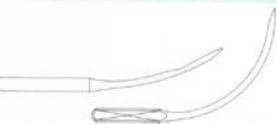
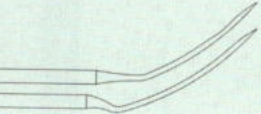
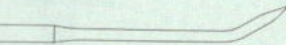
INFORMACIONES Y CARACTERÍSTICAS

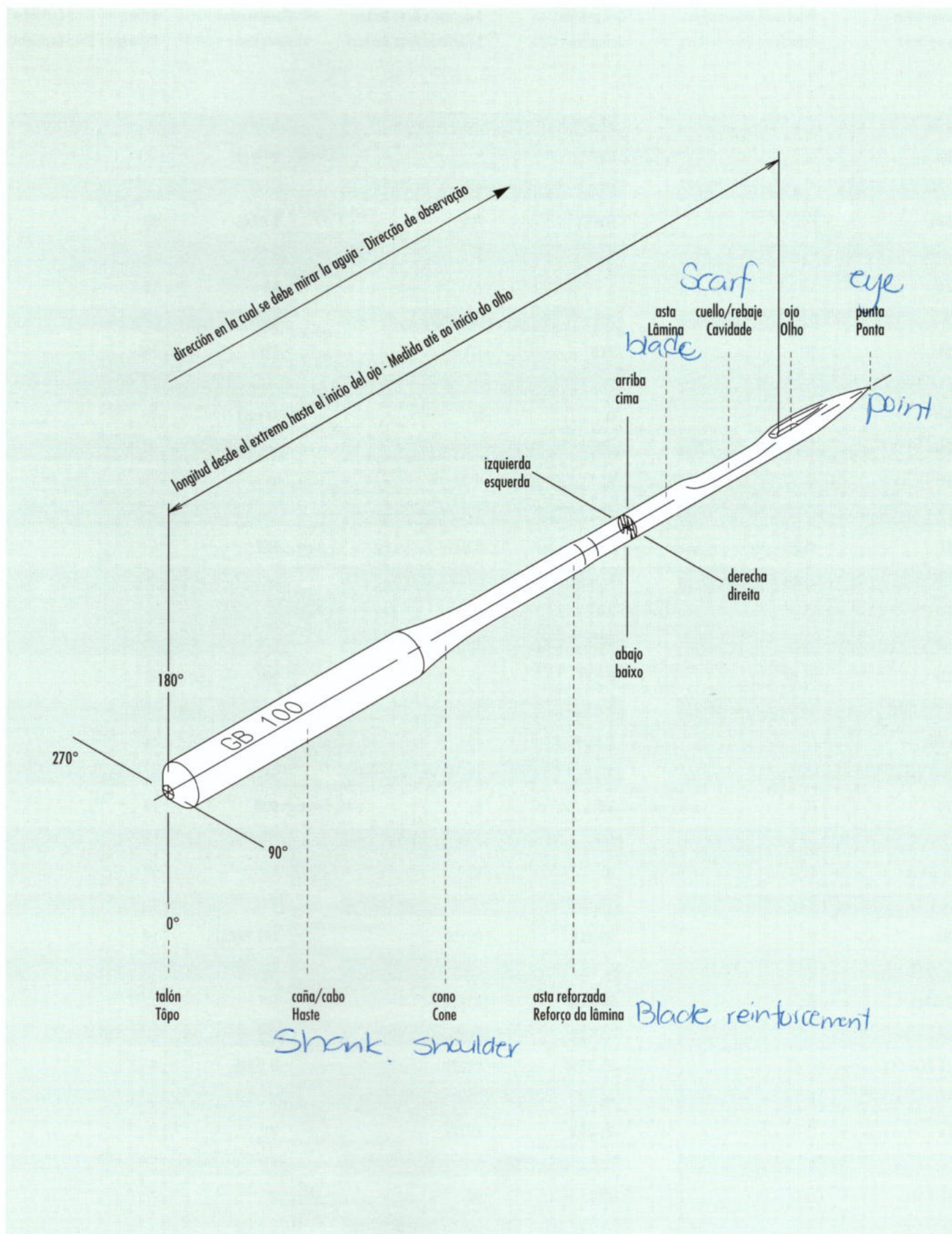
INFORMAÇÃO TÉCNICA E TABELAS



Ejemplo: 339. 200 AC01 FFG 100 = Sistema de aguja 134 FFG Nm. 100
Exemplo: 339. 200 AC01 FFG 100 = Sistema de agulha 134 FFG Nm 100

339.	200	A	C	01	FFG	100
Longitud desde el final al inicio del ojo.	Diámetro caña/cabo	Tipo de forma de la Aguja	Superficie	Número de variantes	Tipo de punta	Grueso de la aguja (Nm)
Medida até ao início do olho	Diâmetro da haste	Forma da agulha	Acabamento	Número de variante	Tipo de ponta	Diâmetros da agulha
		ver página 3.02 ver página 3.02			ver página 3.05 ver página 3.05	ver página 3.07 ver página 3.07
			C= cromo/crômio standard N= Niquel/Niquel solo para agulhas especiales (ej.: AMF)/Para agulhas especiais (e. g. AMF) D= GEBEDUR alta resistencia al desgaste/Resistência reforçada L= GEBELUB antiadhesivo/Antiadesiva			

Forma de la aguja Forma da agulha	Tipo de forma Tipo de forma	Descripción Descrição
	A	recta, con una ranura direita, com uma ranhura longa
	B	recta, con dos ranuras direita, com duas ranhuras longas
	C	como A, sin caña (cabo) como a Forma A, sem tronco
	D	como B, sin caña (cabo) como a Forma B, sem tronco
	E	con dos puntas com duas pontas
	F	con gancho com barbeta
	H	sin ojo sem olho
	M	asta curvada, overlock lâmina curva
	N	asta curvada, puntada invisible lâmina curva como M, mas com dobra
	Q	totalmente curvada curvatura total
	R	angulada com dobra
	S	como N, pero angulada de lado como Forma N, mas lâmina curvada para o lado
	T	asta curvada de lado curvada transversalmente à ranhura



Designación
Designação

Referencia Groz-Beckert
Referência Groz-Beckert

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

Designación
Designação

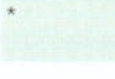
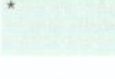
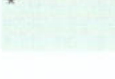
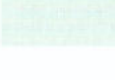
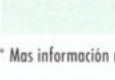
Referencia Groz-Beckert
Referência Groz-Beckert

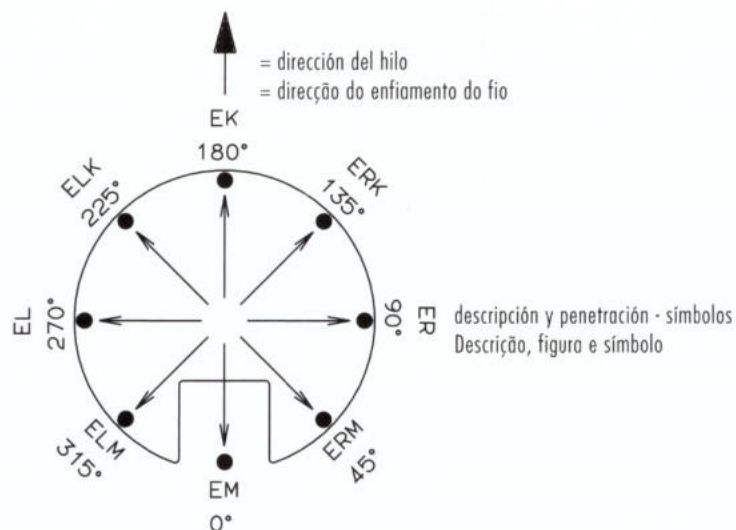
NEW RD	RG
NW	P
NWLT	PCL
NWRT	PCR
NYR	FFG
P	P
PCL	PCL
PCR	PCR
PS	P
Q	Q
QR	QR
R	R
R EL	R EL
R EM	R EM
R ERM	R ERM
R ER	R ER
R-SP	RS
R-SPI	RS
R-STU	RG
R-SUK	FG
R-TRI	SD
RD	R
RG	RG
RS	RS
RS EK	RS EK
RS ELK	RS ELK
RS EL	RS EL
RS ELM	RS ELM
RS EM	RS EM
RS ERM	RS ERM
RS ER	RS ER
RS ERK	RS ERK
RSP	S
RSQ	QR
RT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

Designación
Designação

Referencia Groz-Beckert
Referência Groz-Beckert

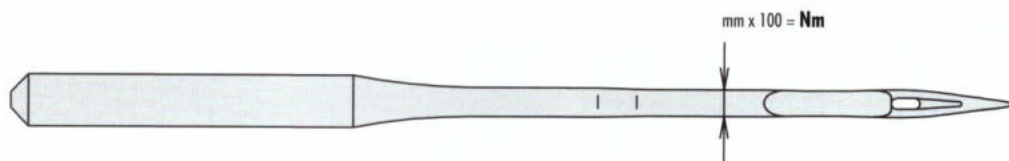
RTW	LR
RTWSP	VR
S	S
S BALL	RG
S SET	RS
SD	SD
SD 1	SD
SES	FFG
SET	R
SET RT	RG
SH G ECC SET	RS EK
SI	FG
SIN	FFG
SKF	G
SKL	SKL
SP	P
SPI	RS
SQ	Q
STAY	STAY
STU	RG
STUB	RG
SUK	FG
TB	FFG
TR	TR
TRI	D
TRI FACET	SD
TRI TIP	SD
TW	LL
TW SP	LL
U BALL	G
V	P
VL	LL
VR	VR
W	P
Y BALL	G

Perfil Perfil	Designación Designação	Símbolo Símbolo	Descripción Descrição	Aplicación Aplicação
	R		Punta redonda normal Ponta redonda normal	Aplicación universal para puntada de 2 hilos (FST 301) y tela tejida en telar Universal em ponto preso (tipo 301)
	RS/SPI		Punta redonda aguda Ponta redonda aguçada	Normal para puntada invisible. También para líneas de puntadas muy rectas en tela tejida en telar/Em ponto invisível ou em costuras sensíveis
	RG		Punta ligeramente redonda ligeiramente boleada	Aplicación recomendada para punto de cadeneta (FST 401), tejidos de punto y para coser botones/Universal em ponto de cadeia duplo (tipo 401) malhas e fixação de botões
	FFG/SES		Punta de bola fina Ponta bola fina	Para toda clase de tejidos de punto de material sintético o algodón Em malhas e tecidos sintéticos
	FG/SUK		Punta de bola mediana Ponta bola média	Para materiales muy elásticos con inclusión de goma o contenidos de elastómeros Em tecidos elásticos
	G/SKF		Punta de bola grande Ponta bola grossa	Para materiales bastos de alta elasticidad. También para materiales de estructura abierta/Em materiais altamente elásticos e materiais pouco compactos
	SKL		Punta de bola especial Ponta bola especial	Para tejidos de punto y materiales con alto contenido de elastómeros (Lycra, Darnlastán etc.)/Em Lycra, tecidos e malhas com muito material elástico
	SD		Punta redonda con un pequeño corte triangular en la extremidad/Ponta redonda com bico triangular	Para refuerzos de plástico, laminados y vestidos de piel Em vestuário de pele e materiais sintéticos
	P		Punta de cuña estrecha (NW) Ponta pérola	Para secuencias de puntadas densas en piel. Borde y costuras en la parte superior Em couro, com comprimento de ponto reduzido
	S		Punta de cruz estrecha (NCR) Ponta pá	Para puntadas largas y profundas. Líneas de puntadas muy rectas en piel Em couro, para costuras rectas e comprimento de ponto longo
	DI		Punta de diamante Ponta diamante	Para líneas de puntadas muy rectas en piel dura y densa. También para costura de bolsos/Em couro duro e malas, para costuras rectas
	LR		Punta estrecha torcida al revés (NRTW/RTW) Ponta de corte à direita	Para puntadas de apariencia oblicua en piel. Costuras ornamentales Em couro, para costura decorativa
	VR		Punta estrecha torcida al revés (NRTWSP/RTWSP) Ponta de corte à direita com 4 faces	Aplicación similar a LR pero con el efecto cortante ligeramente mas fuerte Similar à LR, mas com mais poder de corte
	LL		Punta estrecha torcida (NTW/TW) Ponta de corte à esquerda	Puntada de apariencia casi recta. Para costuras de unión regular en piel Em couro, para costuras rectas
	D		Punta triangular (TRI) Ponta triangular	Puntada de apariencia casi recta. Para pieles duras y densas Em couro duro e denso. Para costuras quase rectas
	DU		Punta triangular inversa Ponta triangular inversa	Para máquinas de 2 agujas (aguja izquierda) para aparear la costura de la aguja derecha (D)/Em máquinas de 2 agulhas (lado esquerdo) para combinar com a agulha direita (D)
	Q		Punta cuadrada (SQ) Ponta quadrada a 45°	Para materiales pesados, duros y homogéneos. Costura de bolsos Em materiais duros. Sacaria
	QR		Punta cuadrada inversa (RSQ) Ponta quadrada a 0°	Aplicación similar a Q Similar à Q
	STAY		Punta redonda aplanada (STAY) Ponta redonda facetada	Aplicación similar a Q. También para ojales en vestidos de piel Similar à Q. Também para casear em cabedal

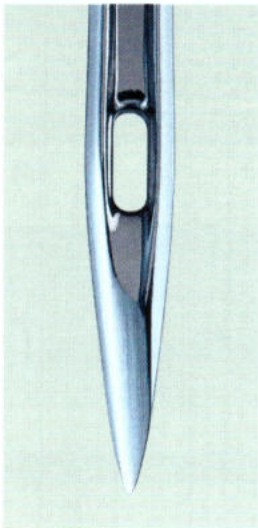
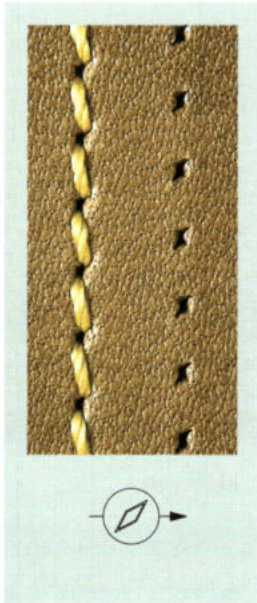
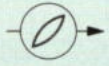


EM		0°	Excéntrica hacia la ranura larga (parte baja de la aguja)	Excéntrica no sentido da ranhura longa (parte inferior da agulha)
ERM		45°	Excéntrica a la derecha de la ranura larga	Excéntrica à direita da ranhura longa
ER		90°	Excéntrica a la derecha	Excéntrica à direita
ERK		135°	Excéntrica a la derecha de la ranura corta	Excéntrica à direita da ranhura curta
EK		180°	Excéntrica hacia la ranura corta (parte alta de la aguja)	Excéntrica no sentido da ranhura curta (Topo da agulha)
ELK		225°	Excéntrica a la izquierda de la ranura corta	Excéntrica à esquerda da ranhura curta
EL		270°	Excéntrica a la izquierda	Excéntrica à esquerda
ELM		315°	Excéntrica a la izquierda de la ranura larga	Excéntrica à esquerda da ranhura longa

La flecha en el símbolo indica la dirección del enhebrado.
 A seta no símbolo indica a direcção do enfiamento do fio



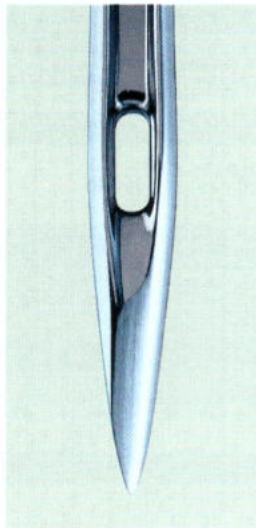
Nm	36	38	40	45	50	55	60	65	70	75	80	85	90	95	100	110	120	125	130	140	150	160	170	180	190	200	230	250	280	300	330	350	380
Organ	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	21	22		23		24		25	26	27	28	29	30	31	32
Singer			3	4	5	6	8	9	10	11	12	13	14	15	16	18	19	20	21	22		23		24		25	26	27	28	29	30	31	32
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



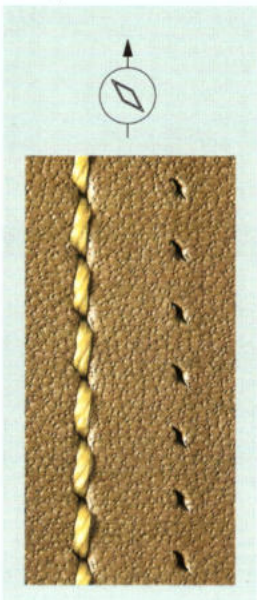
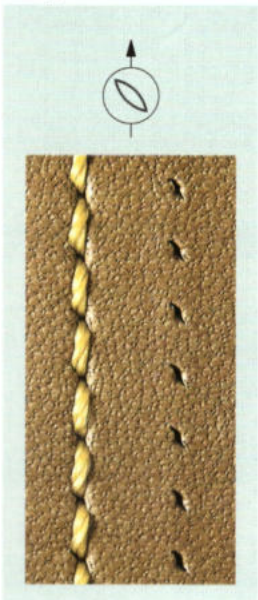
LL/TW



D/TRI

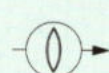
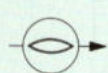
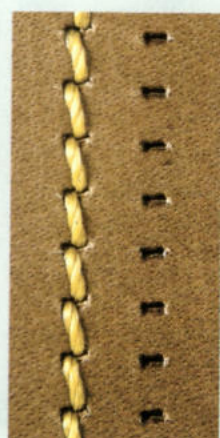
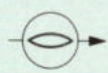


SD/TRI FACET



○ - Enhebrado de la aguja de izquierda a derecha. / Enfiamento do fio da esquerda para a direita

△ - Enhebrado de la aguja de delante hacia detrás. / Enfiamento do fio pela frente



P/NW/W



PCL/NWLT



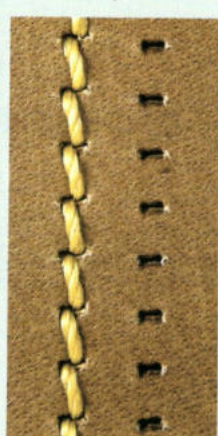
PCR/NWRT



S/CR



DI/DIA



○ - Enhebrado de la aguja de izquierda a derecha. / Enfiamento do fio da esquerda para a direita

● - Enhebrado de la aguja de delante hacia detrás. / Enfiamento do fio pela frente

RECOMENDACIÓN: GRUESO AGUJA-GRUESO HILO
INDICAÇÕES: DIÂMETROS DAS AGULHAS-FIOS A USAR

GROZ-BECKERT®

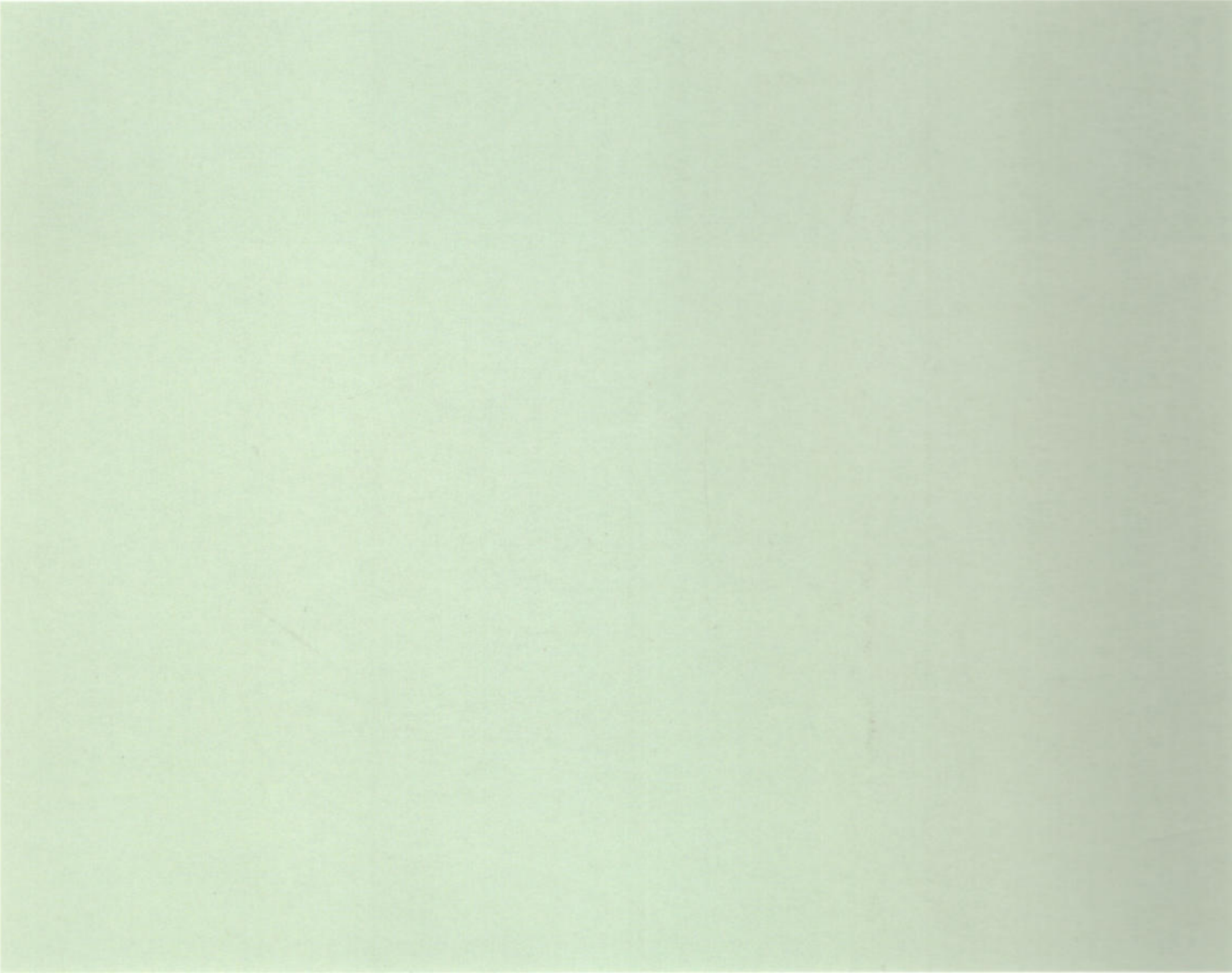
Grueso de la aguja. Tejido: ligero-pesado Diámetros da agulha. Material: ligeiro-pesado	Algodón	Fibra de poliester	Filamento de poliester	Filamento de poliamida	Monofilamento de poliamida		Fibra de algodón- poliester	Fibra de poly-poly	Seda	Hilo de bordar Algodón	Rayón
	Algodão	Polyester fiado	Polyester filamento continuo	Polyamid filamento continuo	Polyamid mono- filamento		Polyester recoberto com algodão	Polyester recoberto Poly-Poly	Seda	Fio de bordar Algodão	Rayon
Nm	Ne _B (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 = Número métrico / Número métrico

Ne_B = Número de algodón inglés / Número inglés do algodão

den = Denier / denier

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