

ITMA '99

織機

1.

Huddersfield (UK) Kim Gandhi "ITMA '99

"

ITMA '99

新開發品

， ， ，

.

. ITMA '99

가

， ， ， ， ，

高 ， ， .

< 1> ITMA '95 '99

		1995	1999
	()	1 8 2 7 1	1 10 2 1 1
	()	1 41 5 5 48	2 49 5 5 62
(cm)	()	190 190-390 140-390 330-390 180-400	190 190-430 190-210 360-430 140-360
ppm(cm)	()	2,050(190) 1,500(090)	3,230(190) 1,800(190)

		1995	1999
		2,000(140) 400(390)	1,600(190) 370(360)
m/min(cm)	()	3,894 2,550(190) 2,550(140) 1,430(390) 1,415(360)	6,088(188.5) 3,222(190) 2,700(190) 1,400(190) 2,000(190) 505(360)

2.

ITMA '99 가

가 . < 2> ITMA '95 '99

< 2> ITMA '95 '99

	ITMA 95(m/min)		ITMA 99(m/min)	
Tsudakoma	1,376	3,894	4,118	6,081
Picanol	1,125	2,600	1,615	3,221
Dornier	1,095	2,281	1,275	2,721
Somet	1,267	1,831	1,316	2,520
		1,921	1,467	2,363
(March 3 Double side)		3,860		
Picanol	840	957	806	1,372
Sulzer	860	1,170	835	1,330
Somet	800	1,369	898	1,505
Dornier	785	945	775	2,000
()				
Tsudakoma	1,218	2,500	1,960	2,700

無通糸 機가

. Staubli Omni (Picanol社) 自社 Unival 100

950ppm, 緯入率 2,096m/min 220cm

. Grosse Unished
 WV6/J (Dornier)
 800ppm, 1,136m/min 142cm .
 가 .
 開口形成技術 , , ,
 .
 가 . 가
 .
 가 .

3.

Brooks ()가 1914 ,
 1917 61cm , 1959 ITMA
 가 .
 10 ,
 49 .
 , , , ,

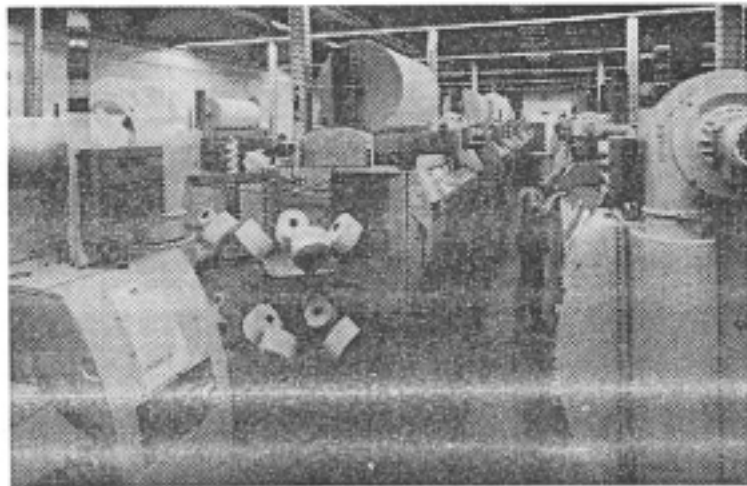
梳毛 , ,

< 3>

			(ppm)	(cm)	(m/min)	
Sulzer ()	M8300		3230	190(188.5)	6088	Staubli 2861 Staubli
	M8300		2430	190(170)	4118	
	15300 B250-F4-SPTE		600	250(4x58)	1390	
	T4300-B260 F6J		540	260Z50	1350	
Tsudakoma a ()	ZAX-1190-2C4S		1800	190(179)	3222	-
	ZAX-390-2CC4		800	390(372)	2950	

			(ppm)	(cm)	(m/min)	
Picanol ()	ZAX-340-6C-D16	가 가	700	340(310)	2170	- Staubli Bonas.
	ZAX-340-8C-J		700	340(304)	2128	
	ZAX-230-6C-D16		900	230(212)	1908	
	ZAX-190-4C-C6		1000	190(170)	1700	
	ZAX-190-2C-C8		1000	190(164)	1640	
	ZAX-210-6C-D16		850	210(190)	1615	
	OMNI-4-P-380		720	380(378)	2721	
	OMNI-F-2E-190		1600	190(149)	2384	
	OMNI-F-2-P-340		750	340(312)	2340	
	OMNI-4-J-250		950	250(220)	2090	
	OMNI-6-J-340		600	340(302)	1812	
	OMNI-6-R-190		900	190(150)	1350	
	OMNI-4-J-190		-	190(155)	-	
	DELTA-X-F-2-E		900	190(175)	1575	
	DELTA-X4-R-190		750	190(170)	1275	
Toyoda ()	JA2S-390DE-MT-T610	가가 Different weave	600	390(2x175)	2100	
	JA2S-190TN-MF-T610		1200	190(165)	1980	
	JA2SA90TP-EF-T610		1110	190(165)	1831	
	JA6FA90DE-EF-T610		900	190(170)	1530	
	JA4FA90DE-MF-T6119		850	190(175)	1487	
	JA4SF-190TE-EF-T610		800	190(170)	1360	
Dornier ()	LWV81J	가	600	430(420)	2520	Staubli LX
	LWV21E4		600	380(334)	2000	Staubli Staubli CX880 Gross Staubli CX 880 Staubli CX 880
	L-21E4		1000	190(175)	1750	
	DWL8		1530	168	1530	
	LTNF811		620	260(245)	1519	
	DWT8		1100	126	1380	
	ATV41S20		700	190(188)	1316	
Sormet ()	Clipper	가	750	340(315)	2363	Fimtextile 2024
	Clipper		650	340(315)	2048	Fimtextile 2024
	Clipper		1000	190(175.5)	1755	Fimtextile 2024
	Clipper		580	340(296)	1718	Staubli CX880
	Clipper		1000	190(156.4)	1564	Staubli CX880
	Clipper		900	190(169)	1521	Staubli 2871
	Clipper		900	129(163)	1467	Staubli 2871
Trutein ()	Techno 440 PT Servo	-	400	440(400)	1621	
	Techno 240 PT	-	650	240(230)	1495	
	190CT	-	650	190(182)	1831	
	Techno 150 GTS	-	700	150(120)	840	
Gumma ()	190TC		700	190(173)	1211	- Staubli 2670
	260AIR-F		620	260(243)	1506	
Muller AG ()	MWET MBJL111150		1400	(115)	16140	SPE
	MWET M13,11-111150		1000	(115)	1150	
Vaupel ()	EW M90-180E		800	2x84.4	1530	LX1600JC5

	가	Sulzer	Textil
緯入原理	多相	M8300	單相
.	가		가
.	.		가
	.		
	4		2,800
가	.		



< 1> Sulzer社 M8300

ITMA '95	3,894m/min,	190cm	가
, ITMA '99	Sulzer	6,088m/min,	
188.5cm	(cretonne)	4,118m/min,	169.5cm
	M8300	2	. Sulzer
M8300	가		.
	30%		
3	4	가	
新	,	,	

40%

60%

25%

10db(A)

M 8300 1m² 가

/

가 . Sulzer (糸)

L5300 T4300 .

6가 糸種

(pick and pick weft insertion) .

4.

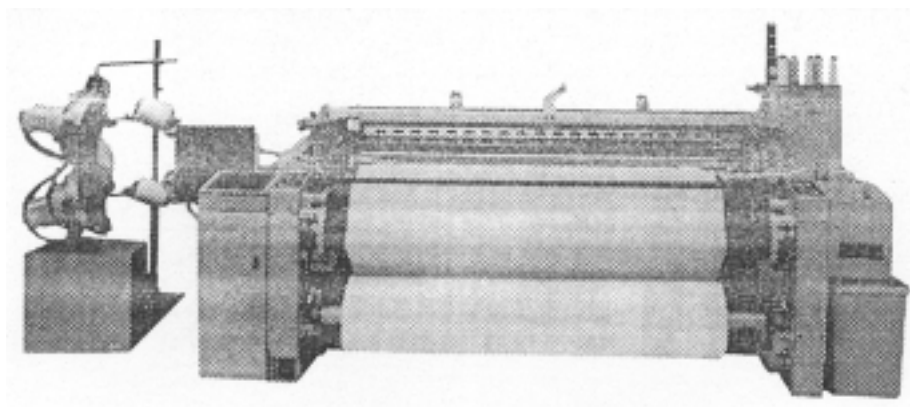
Tsudakoma Model ZAX 1190-2C- 4S

1,800ppm , 3,222m/min 179cm

. ITMA ' 95

20%, 24% . ZAX 3902CC4

2,950m/min 369cm .



< 2> Tsudakoma社 ZAX

Picanol 19-

Delta-X

가 閉口

가

(whip roll)

(斑)

Picanol

8

가

Omni-4P

380

ITMA '95

19.3%

가

2,721m/min

378cm

2

가

2

5. Sumo

Picanol

Sumo

가

Sumo

10%

가

가

Dornier

430cm

LWV8/J

, ITMA '95

1,831m/min

2,520m/min

420cm

8

20 ,

10,000 . Scholze

Megatop

1,600mm 가

2,002m/min 334cm

LWV2/E4 .

Dornier Pneuma Tucker ,

Disc-O-Leno 把持

가

EcoLeno . 同社가 PIC(Permant Insertion

Control) 가 .

3 가 .

Somet () Clipper 7 .

가

. Clipper

伸長 .

加撚糸 ,

(pneumatic tuck-in selvedge) . Clipper

2,363m/min 315cm ,

ITMA ' 95 23% .

6. (tapered)

Toyoda 가

.

가 .

가

가 . Toyoda 가 JA2S
390cm 2,100m/min 2 × 175cm
2, 4 6 가

가

7.

가

가

, 2

가

가

< 4>

			(rpm)	cm)	(m/min)	
Tsudakoma	ZW-405CA90AC-4S		1,600	190(170)	2,700	
()	ZW 405-210-2C-D16		1,000	210(196)	1,960	
Toyoda	LW1F-19-CS-EF-602		1,500	190(173)	2,595	
()	LW2F-211OTP-1V117-603		900	210(190)	1,710	
	ILW-4F-211OFE-EF-601		700	210(197.6)	1,383	N-

Tsudakoma

ZW 405C 190 1C 4S ITMA ' 95

2,500m/min

2,700m/min

170cm

2 가

, 2 가
 가
 가 ZW
 14 15% 5 6%
 ITMA '95 Toyoda社
 3 , LWF
 2,595m/min 173cm
 (feeder)
 Toyoda社 150 230cm, 2 4 ,
 (pick-at-will), 2 ,
 8.
 Sulzer 가
 1933 가 , ITMA '55 600m/min
 215cm
 1969 840m/min, 389cm 가
 33 540cm
 . Sulzer Textil

540cm

12m

Sulzer

5

P7250, B360N2

ITMA '95

1,400m/min

349cm

< 5 >

			(rpm)	(cm)	(m/min)	
Sulzer	P7300-B390-N2EF-R-DI		360	390(388)	1400	Staubli
	P7250B360N MSASPD12		365	360(349)	1273	
	P7150B360N2EPROD1		300	430(418.5)	1255	
	P750B360N2EPROD1		370	360(2x168.5)	1250	
	P7250B360N4 MSASPD12		300	360(2x180)	1080	

9.

1870

가 ,

가

1925

75

가

가

가

가

가

190 360cm

62 가

Picanol

Gamma FF(Free Flight)

가

가

(flat)

Gamma

가

가

가

Sumo

가

. Gamma 32

. ITMA '95

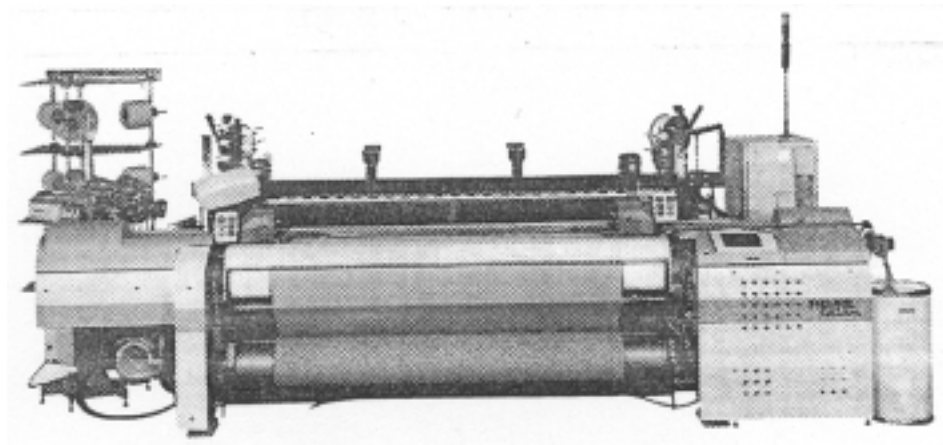
GTX6R 190

957m/min

Gamma-41R-340

1,372m/min

312cm



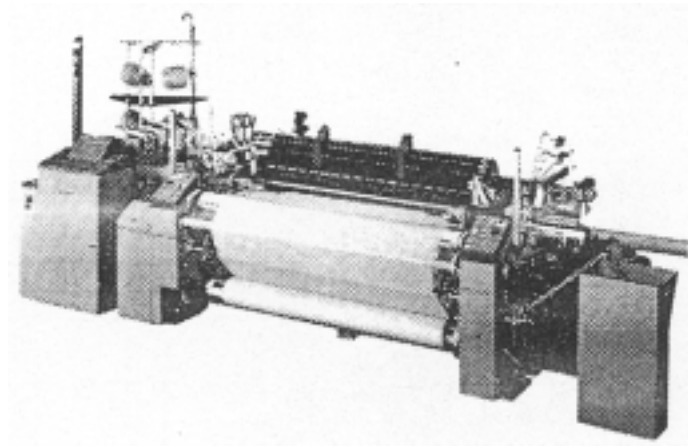
< 3> Picanol社 Gamma

< 6>

			(ppm)	(cm)	(m/min)		
Dornier ()	PTV 4 1516		570X2	190(175.5)	2000	Staubli	2861
	HTV S4/S20		500	220(198)	990	Staubli	2861
	HTVS 81518		520	220(183.5)	954	Staubli	2861
	HTVS121,1	가	500	180(155)	775	Staubli	LX320
Somet	Super Excel HTP		430	360(350)	1505	Staubli	2622
	Super Excel HTP	가	600	230(210)	1260	Bonas DSJ	2688
	Super Excel HTP		700	190(175)	1225	Staubli	2861
	Thema Super Excel		350	340(330)	1150	Staubli	
	Super Excel HTP	Cool Wool	550	210(176)	968	Staubli	2670
	Thema Super Excel		550	190(172.2)	947	Fimtextiles	
	Thema Super Excel	가	600	190(149.6)	898	Staubli	LX320

			(ppm)	(cm)	(m/min)	
Picanol ()	Gamma-4-R-340		440	340(312)	1372	-
	Gamma-8RA90		700	190(188)	1316	
	Gamma-FF-4-R-190		600	190(176)	1056	-
	Gamma-8-1-190		615	190(150)	922	Staubli
	Gamma-4-R-220		530	220(192)	1017	
	Gamma-4-R-190		630	190(128)	806	-
Sulzer ()	G6300-13200-N8-SP20	가	700	200(190)	1330	Staubli
	G6300-B340 N8SP20		430	340(297)	1277	Staubli
	G6300-B1900 N8-SP20		700	190(172)	1206	Staubli
	G6300 S320 N8J		360	320(306)	1100	
	G6250 W190 N8 SP16		600	190(175)	1050	Staubli
	G6250 B190 N8 SP16		600	190(167)	1000	Staubli
	G6300 W220 N8 SP20	가	540	220(179)	966	Staubli
	G6200 W220 N8 SP28		540	220(179)	966	Elitex
	G6200 B190 N8J		600	190(156)	936	Staubli
	G6200 B190 N6J		600	190(155.3)	932	Schleicher
	G6200 B170 F8J		500	190(3x61.5)	922	Grosse
	G6300 B140 N8J	Scarves	600	170(150)	900	
	G6200 B140 N8J		630	140(132.6)	835	
Vamatex ()	9000 PLUS		325	300(260)	845	Staubli
	9000 PLUS		480	192(162)	777	Fimtextile
Vamatex Negative Rapier()	LEONARDO	Table linen	430	360(164x2)	1410	Fimtextile 3010
	LEONARDO		450	320(307)	1381	Staubli LX3200
	LEONARDO		400	360(311)	1368	Fimtextile 3010
	LEONARDO		830	170(150)	1245	Fimtextile 3010
	SP1151		345	360(334)	1152	Grosse
	LEONARDO		660	190(170)	1122	Fimtextile
	LEONARDO		640	190(175)	1120	Staubli 2861
	LEONARDO		560	220(198)	1111	Staubli 2867
	LEONARDO		650	190(159)	1033	Bobbio
	LEONARDO FTS		560	190(183)	1024	Staubli 2861
	P1001SUPER		550	190(180)	990	Staubli 2668
	LEONARDO		650	190(148)	962	Grosse
	LEONARDO		650	190(147)	955	Bonas
	LEONARDO FTS		560	190(144)	806	Bonas
Panter Negative Rapier()	E 4X H 1900		820	190(160)	1307	Staubli
	E 4X H 3400		420	340(303)	1272	Staubli
	E 4X H 1900		650	190(157)	1020	Bonas
	E 4X H 2100		462	210(157)	725	Staubli
	E 4X H 1900		650	190(172)	1118	Staubli

가 G6300 170 360cm, G 6250
140 280cm .



< 4> Dornier社 Type P

Somet 가 가 Super
Excel HTP Staubli 2622가 , 1,505m/min
350cm whip
roll 가

. 가 偏角

Vamatex Leonardo FTS(free transfer system) .
가 가
가 가 Vamatex
170 230cm . Fimtextile
1,410m/min 164 × 2cm
100% 12, 8 4

Panter
 160 380cm
 4, 6, 12 16
 가
 Staubli
 가 E4xl-11900 1,307m/min,
 820ppm