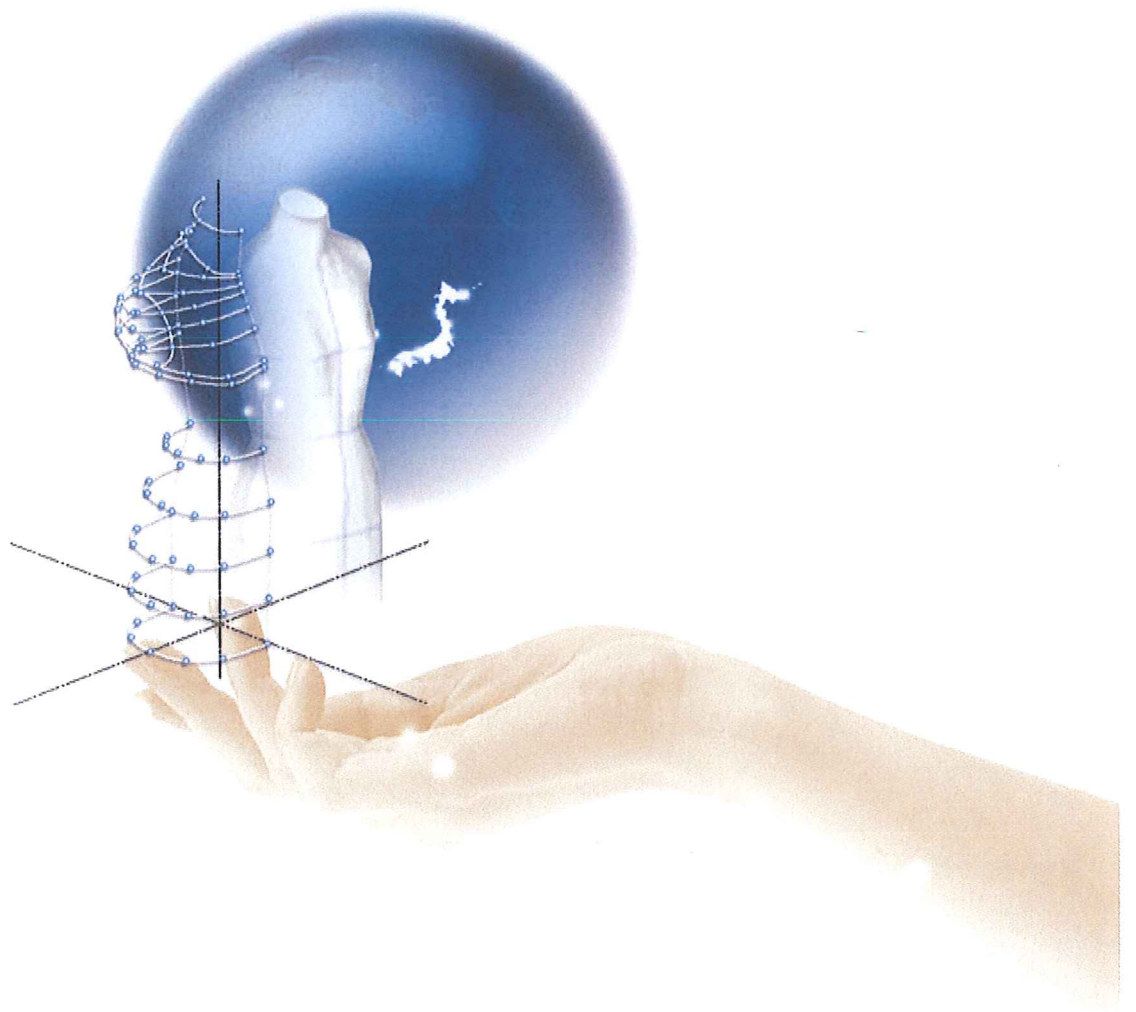# Intelligence
can generate power
and knowledge
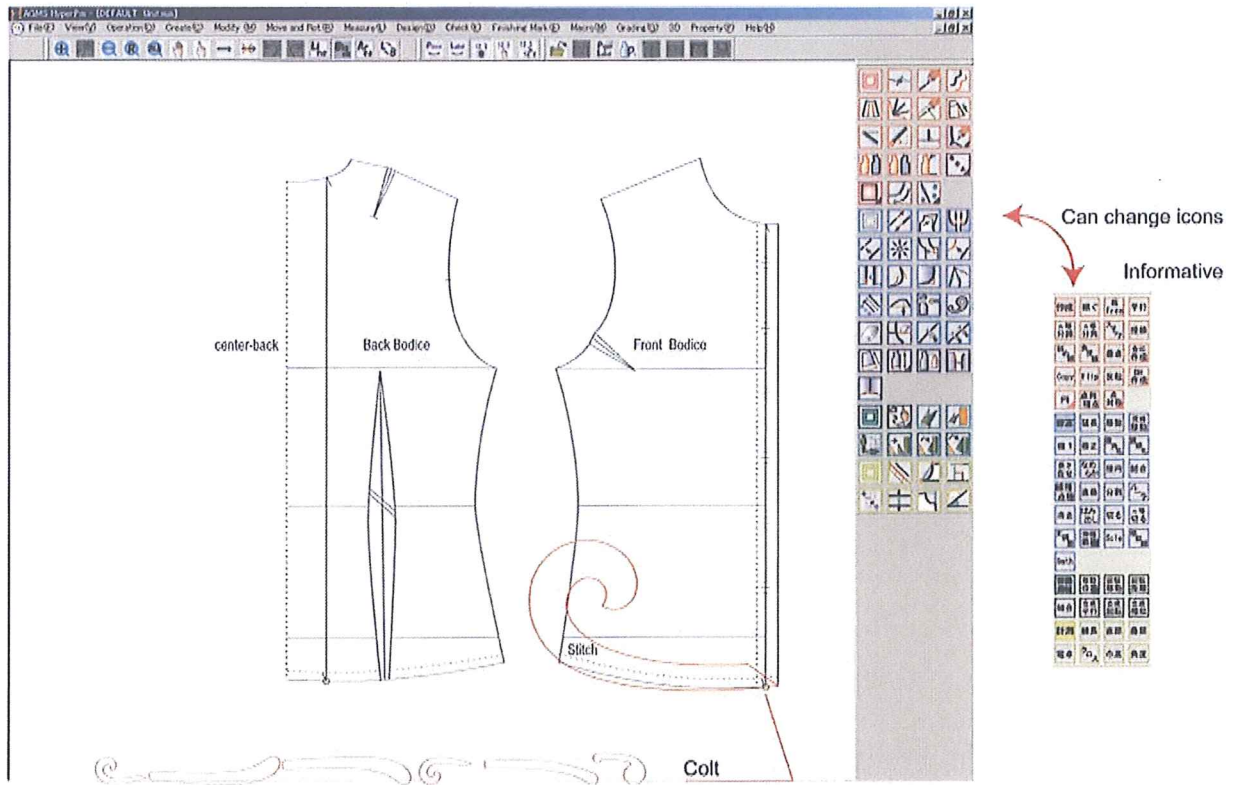
AGMS

Hyper Pattern Making

Simple & automated!

Including many features, so you can easily design a difficult style of the pattern.

AGMS

center-back Back Bodice Front Bodice

Stitch

Colt

Can change icons

Informative

Help window with a counseling

A concise definition of "guide map"
Can be watched and options.
Shorten the operation time, "Options" are also very convenient.

Method
- ○ N sector
- ◉ Ratio

Custom Icons

You can move icons to your preference, makes more easily to operate.

Add seam

"Corner treatment" "High adjustment" Etc.
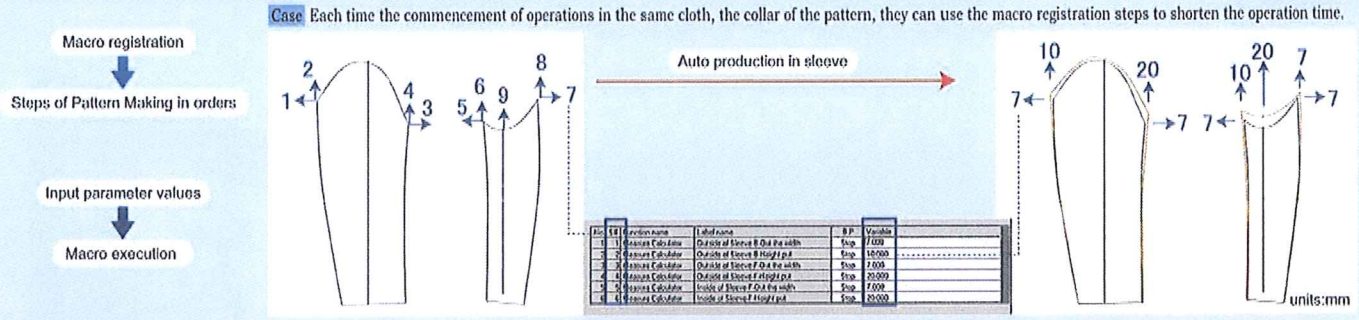Implementation can be simple.

ZZ   ZZB   ZZF
Z1   Z2   ZX

Back Bodice

Style (pattern to expand)

Production belt

ex.n=2 Double open fold

Fine folds

Button hole   ex.n=3 The processing cut   Province, to dispersed, together

---

Setting shrinkage

Can use a variety of ways, according to the different characteristics of the fabric changes.

First decide horizontal, vertical, two-way stretch range, Enter the actual value,%, etc., will proceed with the fabric Changes.

Can be broken down range point of each grading Numerical changes direction XY fabric.

5 %
3 %

2 rectangular coordinates X/Y
X=0.0 Y=0.0

4 rectangular coordinates X/Y
X=3.0 Y=0.0

3 rectangular coordinates X/Y
X=3.0 Y=0.0

5 rectangular coordinates X/Y
THROUGH

6 rectangular coordinates X/Y
X=5.0 Y=0.0

Smoother handling

To suture the state to observe the plate, Confirm the connection parts, modification and so very convenient.

To modify
Line
Revised
Before the amendment

Read external file

Illustration of data, image data
Can be attached to the cardboard top.

Image Data
Illustration data Read

AGMS

■ Macro functions (registration operation)

● Macro   Macros can make the steps to register cardboard.

Case Each time the commencement of operations in the same cloth, the collar of the pattern, they can use the macro registration steps to shorten the operation time.

Macro registration
↓
Steps of Pattern Making in orders
↓
Input parameter values
↓
Macro execution

Auto production in sleeve →

units:mm

■ Applications macro code

● Intelligent system board
(the macro as the AGMS intelligent Registration)

Semi-dress suit dress pants etc The macro base plate can be Provided to customers.

Style maps, cloth maps, notes and so on, together with macro register
Crawl through the "retrieval system" into the operation. Simple and quick.

Prototype   Base plate   Sample paragraph

Commenced production from the prototype foundation plate, Style patterns
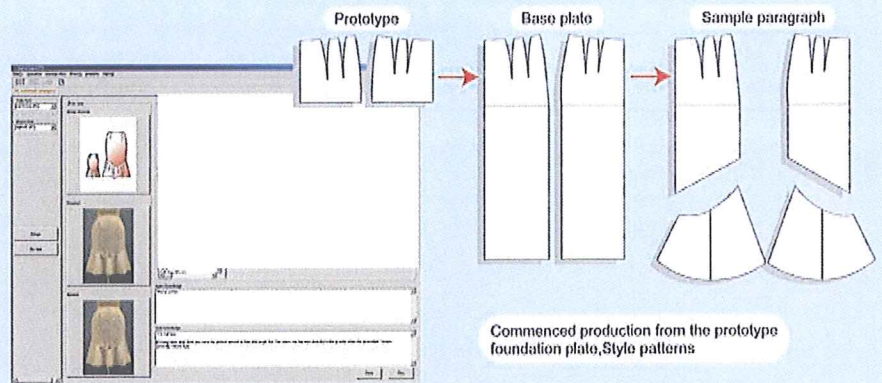
● AGMS and joint development of Japan's top clients
Only need to enter the size of each part, you can create different styles of pants from scratch.

Shirt, skirt the macro will end in the research and development, gradually made available to users

Produced from scratch

Enter the dimensions of each part

Style pattern made from scratch

Base plate
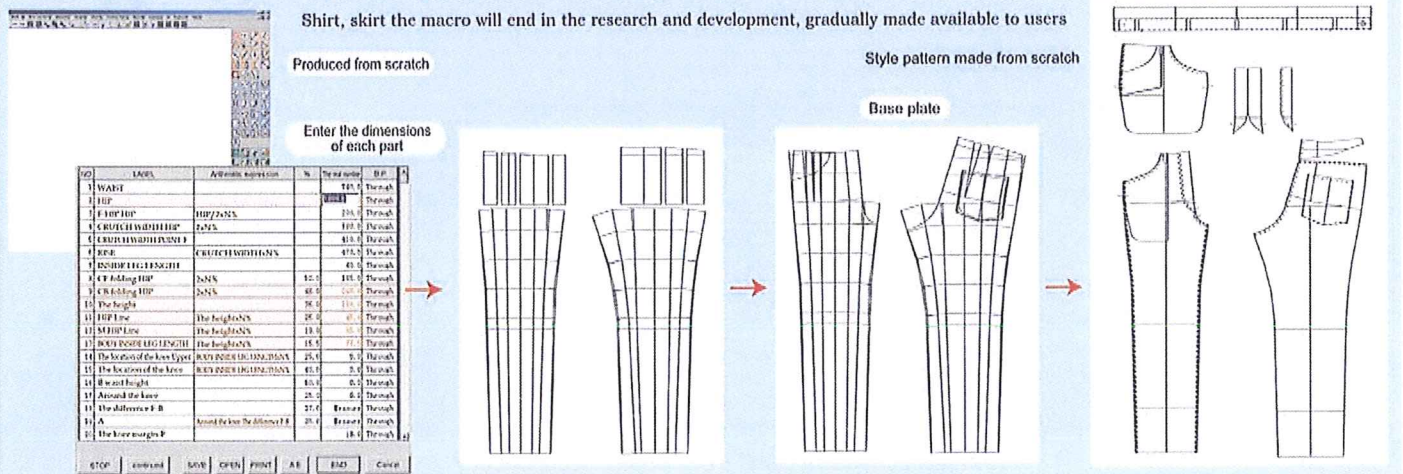
Style patterns

Customized system

Select styles, fabrics, to the production, customer management.

Achieved consistent from shop to factory service reform.

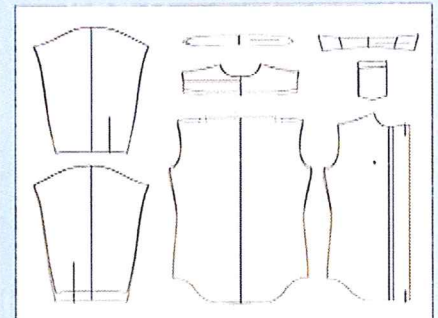Can be applied in various ways to obtain real-inch → Customized input interface → Production Pattern

Collected by direct tailor and 3D stereo-inch body. Scan the results of measurement, rapid production of Gu. Customer's customized pattern.

Enter the dimensions of customer

Grading

To meet customer needs, we designed a variety of grading methods.
Using renderings grading operation will be more simple!

AGMS

Grading method
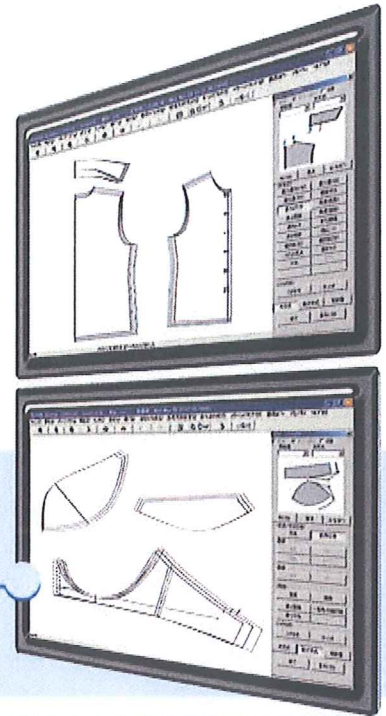
● **The difference on the table size**
Just enter the file size difference between
the purpose, Grading can be simple to implement.

● **Specify the amount of movement**
Free to enter the designated point
Amount of movement.

Effect Picture grading

Instructions on the screen directly on top
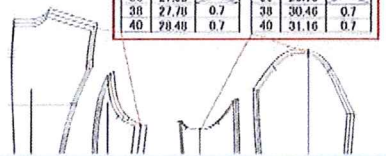Side implementation of the grading.
Simple operation.

Production formula toolbar
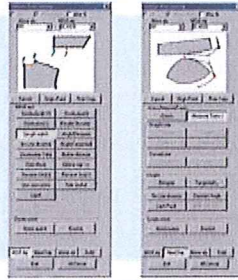
After the confirmation of grading

● Can accurately measure the size of suture site.
Can also be output as part of the information
Effective use.

Measurement results can be CSV file format,
import the EXCEL table inside.

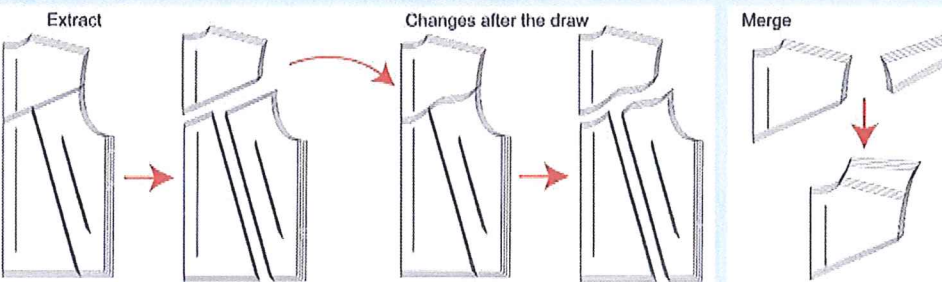● **Bodice overlap check**
After the grading can be more than the
garment is set to Suture effect diagram,
check the status of splicing.

| L-L	Full L.	Dif L.		L-L	Full L.	Dif L.
36	27.08			36	29.76	
38	27.78	0.7		38	30.46	0.7
40	28.48	0.7		40	31.16	0.7

Item	2 1/2	7	9	11	13
Bust		91.46	94.46	97.46	100.46
Waist		79.09	82.08	85.07	88.07
Hip		88.34	91.33	94.31	97.30
Length		46.98	47.99	47.98	48.90
Shoulder width		37.25	30.04	30.04	39.64
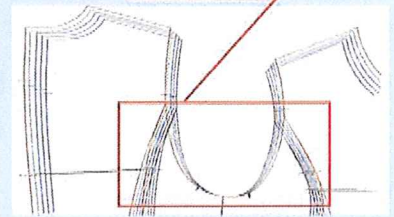
After grading process

● Clothing out of film can be automatically combined.

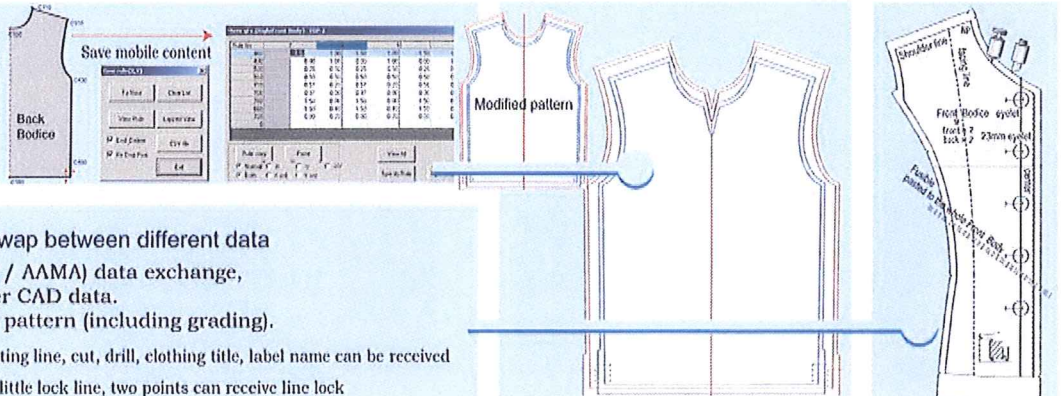Extract

Changes after the draw

Merge

● **Setting shrinkage**
Can simply modify the characteristics of
fabric pieces of clothing Length and width.
Input (actual size%), the side edge shape
can be modified to confirm.
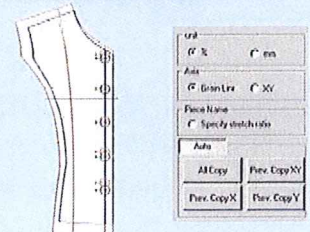
NEST

Each other CAD data (DXF),
As long as production
NEST formula
Grading will be able
to reproduce them.

Save mobile content

Back Bodice

Modified pattern

DXF CAD software clothing swap between different data

Through the DXF format (TIIP / AAMA) data exchange,
can receive the pattern of other CAD data.
The data received is limited to pattern (including grading).

● Contour, internal lines, internal cutting line, cut, drill, clothing title, label name can be received

● Line Type: point line, dotted line, a little lock line, two points can receive line lock
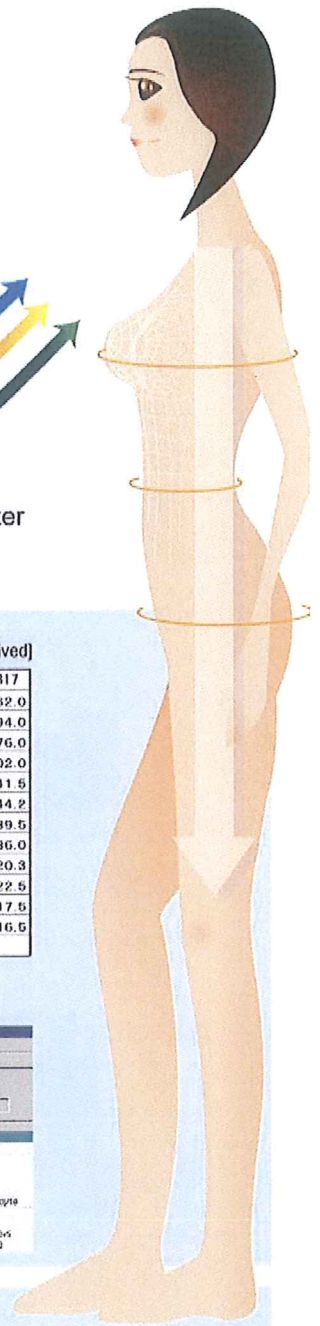
Human body to maintain balance
Three-dimensional grading * OPTION

Simple & automated!
Including many features, so you can easily design a difficult style of the pattern.

AGMS

Three-dimensional grading

Value of attention		Technology	Accuracy	Efficiency

The diversity of size grading method was re-recognized in recent years.
AGMS CAD successfully developed a balanced analysis from the body, the body changes in parameter values and patterns change theory Integrated into CAD grading inside.

■ Balanced formula

- Before and after the body is not balanced.
- Bust from the length considered "balanced formula"
- Three former lateral consider when should be the size of the side, as the base axis to determine the center line.
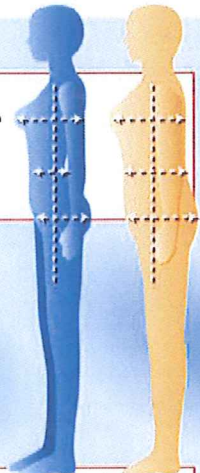
- Change in shape that contains a variety of sizes, and can do grading.
- The thickness of the body weight to enrich the height of the chest.
- Confused when a large size cage sleeve shape can be perfectly.
- Do not need to cut the re-combination.
- No matter what kind of size, can maintain the perfect outline of basic code For grading treatment.

[Size according to different age groups balanced formula derived]

	item	arithmetic expression	A9	increment	B17
basic size	Height		160.0	2.0	162.0
	Bust		84.0	10.0	94.0
	waist		64.0	12.0	76.0
	hip		90.0	12.0	102.0
Height Proportion	B-Side neck point to waist	Height*1/4+1	41.0	0.5	41.5
	F-Side neck point to waist	B-Side neck point to waist+	42.7	1.5	44.2
	Height The record length	B-Side neck point to waist−2	39.0	0.5	39.5
	NP-WL	F-Side neck point to waist-C 0	35.0	1.0	36.0
	hip length	Height*1/8	20.0	0.3	20.3
A standard Proportion	AH length	(Height*1/20+Bust*1/10)+5	21.4	1.1	22.5
	B_shoulder length	Height*1/20+Bust*1/10	16.4	1.1	17.5
	F_shoulder length	B_shoulder length−1	15.4	1.1	16.5

[The balance calculation method, the difference on the table assembly to a size which]
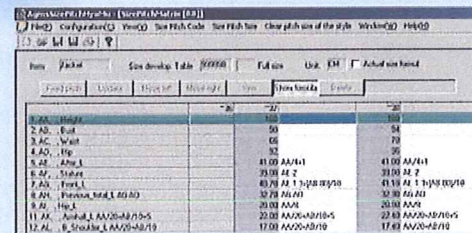
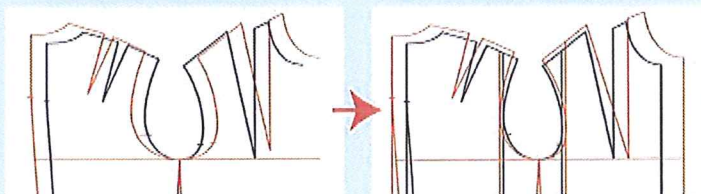## ■ Part of the rotation pattern grading to do after the restore.

The concept of pre-Sleeve cage
(With open his breast to upload)
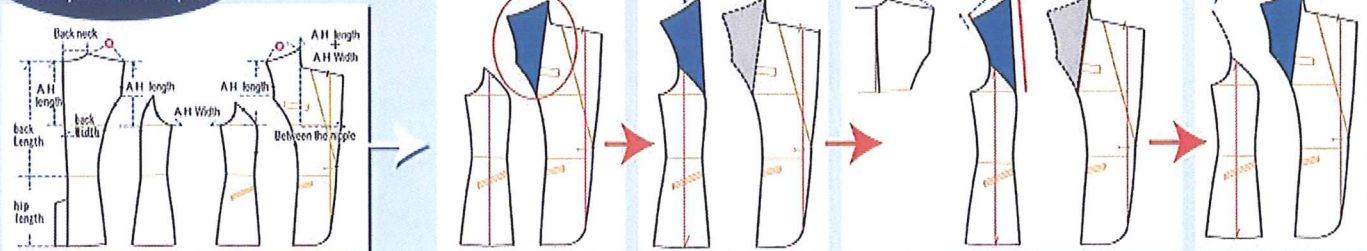
■ Base plate to keep the outline of code to launch the thickness of body weight to height.
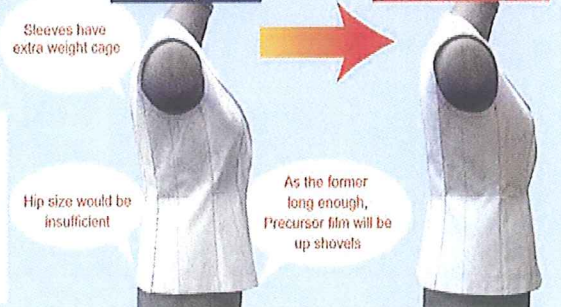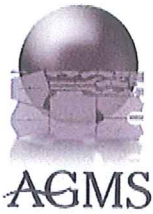
Sleeve cage

- **General CAD-grading**
  Usually put a large size, the
  The shape-based code will be affected.

- **Three-dimensional grading**
  Great size to do grading, the sleeve cages
  To maintain the perfect shape

Usually grading

Sleeves have extra weight cage

Hip size would be insufficient

Three-dimensional grading

As the former long enough, Precursor film will be up shovels

4

Nesting

Nesting using human-computer interaction, effective configuration!
Is widely used in factories CAD / CAM system.

AGMS

■ Customers through the human-computer interaction, choose a variety of tools to facilitate the completion of nesting work

Clothing pieces to the fabric can automatically increase the discharge, Do not overlap or exceed the phenomenon.
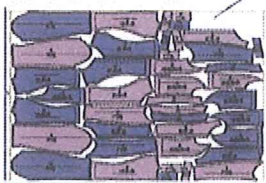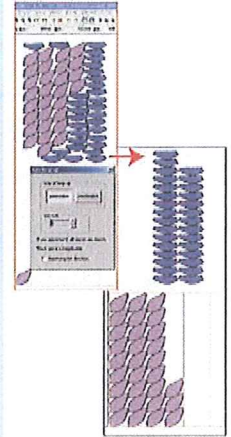
Can automatically search for the gap position, and the configurable.
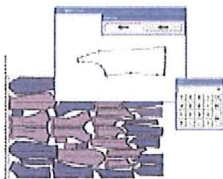Clothing pieces to move there and improve yield
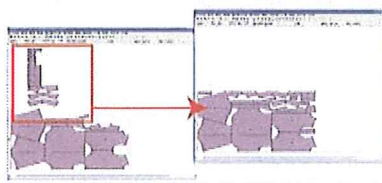
The clothing pieces of information can be recognized in the portrait.
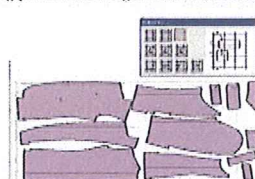
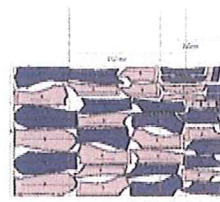Clothing pieces can do the same automatic configuration of closely spaced .

Can modify the length, change the turnover / and then, change the amount of such joint.

Pre-conditions set up on the grid, only need to configure the main garment pieces.
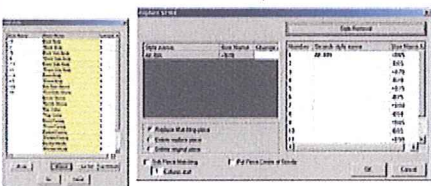Other clothing pieces into the grid can be automatically.
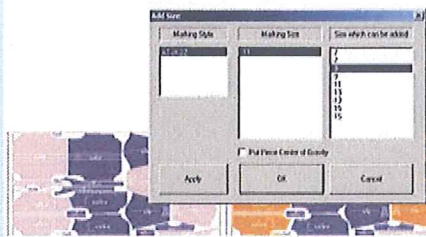
Measurable distance
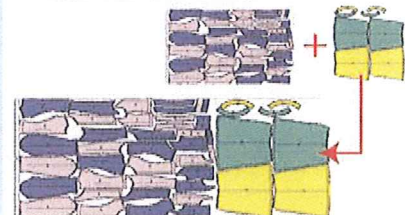

■ Change the marker data

● After the completion of nesting data for some changes.
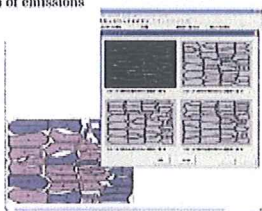Additional pieces are free to swap clothes, or exchange Item.

● Can swap size

● Combined nesting data
Can combine different nesting

● Programmable marker
And registration of nesting the same emission profile,
Automatic imitation of emissions

● Replacement marker
And conditions of registration marker is identical to the emission,
Automatic imitation of emissions.
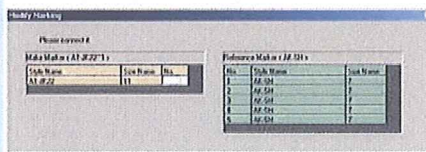
● Reference marker
Reference registration nesting conditions and methods of emissions.
Automatic imitation of emissions.
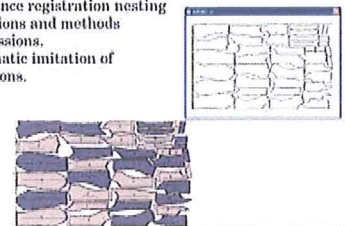
◆ Automatic nesting "NESTER" Ver.7   (*OPTION)

Markings can be done within a short time.
NESTER can automatically do the nesting one by one. Can also be discharged to half-way dialogue, and the rest completed by the NESTER.
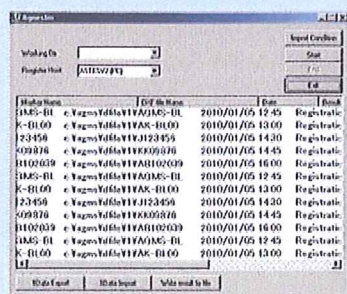
● BLOCK
In a nesting configuration in different sizes, respectively, in different combinations.
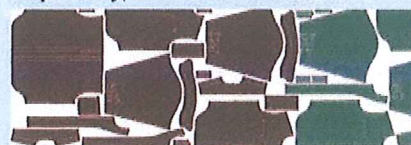
● TUBULAR (folded clothing pieces) ● On the grid

● PACK (*OPTION)
Row with good nesting dialogue,
through NESTER swing the marker compression.

◆ Lace nesting   (*OPTION)

Read lace, calculate the amount.
Inkjet printer can also be used according to the actual size of the output!

Facilitate the use of the system plant

Is available to plant minimum, simple system.

Funds can be reduced to improve production efficiency.

AGMS

● MPD Plus

From the design room to factory, with the DXF data transfer, both sides need to do a variety of validation.
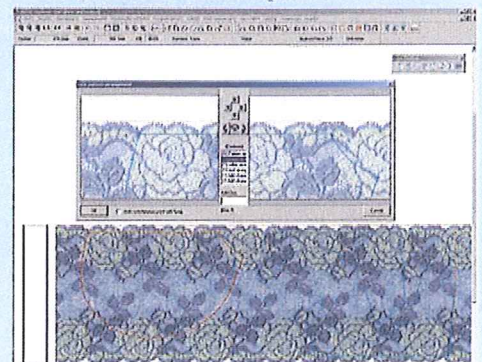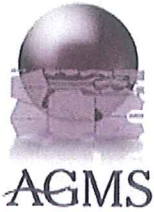MPD Plus is a specialty of high-function software, in the absence of CAD environment, use it to edit / output patterns, it can output marker map, is an essential tool for plant operations. In addition to editing THP-DXF the pattern, but also outside the CAD data corresponding to AGMS. Have been using other brands of CAD and plotter, can use the output.

Using MPD Plus software, data transmission or the receiver can reduce the work burden, to shorten working hours.

● Edit seam

Can simply change the seam width And angular shapes.

● Measurement of size

L-L	Full L.	Dif L.
38	10.41	
40	10.59	0.18
42	10.78	0.19

● Setting shrinkage

According to the characteristics of fabrics, clothing piece by entering the length and width (real-valued%) modify, easy to operate.

● Edit incision, drilling, etc.

Change the width and depth of blade type   Additional drilling to delete

w=2.0 d=3.0   w=2.0 d=3.0   w=2.0 d=3.0

● Cutting plan

The corresponding order number, to consider cutting production time of nesting material costs in time, this system is the most suitable for the production matches the portfolio.

Receive Order → Cutting plan → Automatic Discharge → Automatic cutting
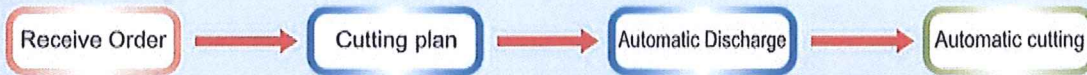
Able to have the cutting master marker technology and a variety of conditions by combining logic, presented the most efficient cutting program.
Received orders to achieve from the cut, consistent automated system.

● Setting conditions

1.Single dosage
2.Cutting the number of overlapping sheets
3.Take the largest number
4.Can take odd
5.Raab direction (unidirectional / repeated)
6.Priority

[Reduce the number of nestin]   CAD reduced the time
[Reduce the number of pick]   reduced time to pick
[Reduce the frequency Action]   cut fabric reduce the cost of operation
[focused cutting]   reduced concentration of cutting time seizure

[Reduce the number of nesting]
● 3 marker

Order	10	24	30	4	The number of markers
number of overlapping	S	M	L	LL	
10		2	2		4
5	2		2		4
4		1		1	2

[Reduce the number of pick]
● 9 cases

Order	10	24	30	4	The number of cases
number of overlapping	S	M	L	LL	
12		2	2		4
5	2				2
4			1	1	2
2			1		1

[Reduce the frequency Action]
● increase the number of emission

Order	10	24	30	4	The number of cases
number of overlapping	S	M	L	LL	
8		2	2		4
5	2		2		4
4		2	1	1	4

[Size focused cutting]
● size above 3

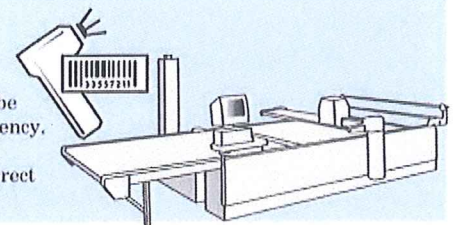| Order	10	24	30	4	The number of cases
number of overlapping	S	M	L	LL	
12		2	2		4
5	2				2
3			2		2
2				2	2

● Edit cutting data "MANTIS

Improve the productivity of CAM / precision.

Case By changing the starting point, reducing the space to go away.
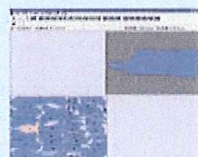
● CAM-specific code management system

Cut the preparation time can be saved to improve cutting efficiency. Can also adjust the marker to prevent errors caused by incorrect cutting phenomenon.

3D

Simply can change the size of body.

Peel mannequin surface, it can automatically create a "stripped of the flat pattern.

AGMS

Mannequin size change

Prototype stripping

Peel

System board

Try

Sag state changes

Kuanyu confirmed

Production profile models

Skirt length change

Collar Change

Fabric on the lattice configuration

3D

DPS is the use of, and "CAD" data digital printing system.

The "CG" designs made with "special processing of the liquid infiltration material" printout.

Do not need commissioned a professional company, use "inkjet printers" could be the output of the system.

AGMS

Pattern-In Print
● Printing system to the pattern above

Use "Pattern-In Print", we must use the "AGMS nesting" software combination.

Repeat Print
● Repeated printing system
Block can be printed fabrics.

Size adjustment
Mo Yang, set repeatedly

◇ Fabrics such as printers and will be submitted to the program.

Graduation
Production samples
Entries

Input Devices

The use according to customer requirements and budget shopping.

AGMS

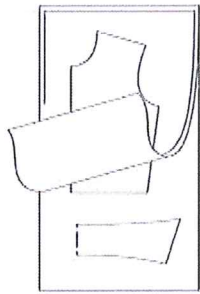## ■ Auto Scanner   Using the scanner and vector data conversion software, hand painted pattern is converted to CAD data.

Auto Scanner

Digital Copiers
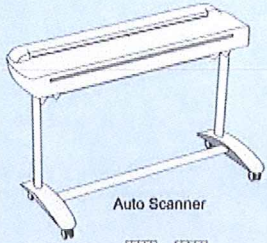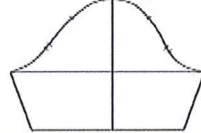
Pattern book to film in a transparent folder.

Just click on the lines in the cardboard. Lines do not operate very accurately aligned, it can automatically identify the target in the vicinity of the line.
(● automatic tracking function)

In the middle tracing can also be directed incision.

Vector Data of completed

Hand painted one-time data can be automatically converted to (CAD data).
Using the automatic tracking feature, can shorten the conversion time.

Cut the cardboard input, you can work on the screen in the row of panels.(Factory, quote only)

The last hand-painted cardboard, to become a CAD data can be converted at any time.
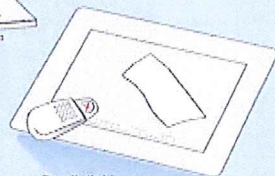
Overlay can be related to

● corresponding data
TIFF, BMP

● shear pattern, blue burn pattern, white pattern, like hand-drawing paper
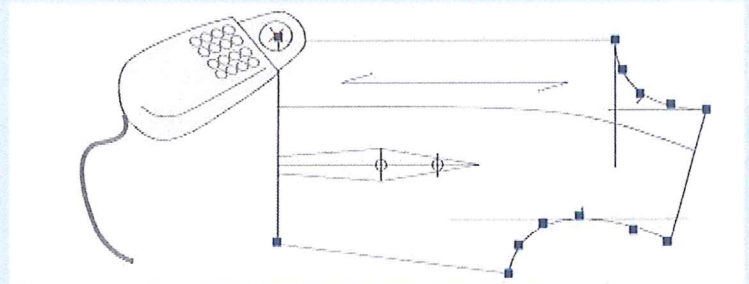

■ digitizer   With the 16-button mouse, cross to the point of input. For the CAD data can be read instantly.
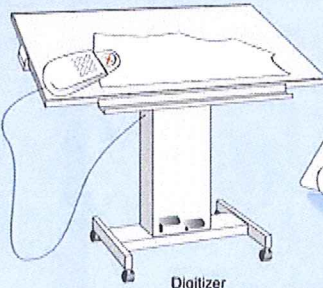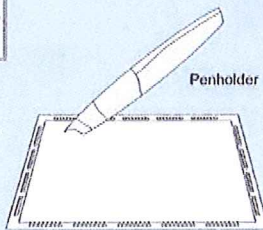
Digitizer

Small digitizer

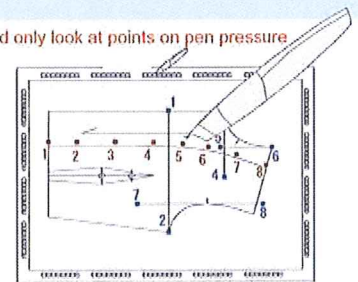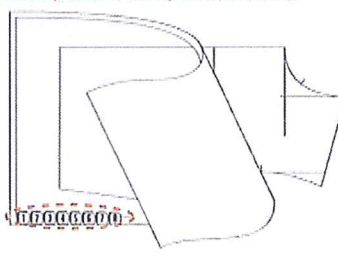## ■ Digital Pen   Using special film and digital pen input is simple, do not take place

Digital pen

Penholder

Cardboard placed in the special film below

Need only look at points on pen pressure

※ Input, the screen is not displayed.

■ Features

|	Software	Maximum read size	Input from the complex computer	Contour changes	Enter profile	Linen	Other Features
Scanners	Necessary	A0 *1	○ *3	×	Sit	×	Images can be saved as a temporary
Digitizer	Digitizer AGMS drive	A0 *2	○	○	Stand	○	Can make CAD data of
Driving a small digitizer	Digitizer AGMS drive	A3 *2	× *4	○	Sit	○	Does not account for local, cheap
Drive digital pen	Digitizer AGMS drive	A0 *2	○ *5	×	Stand,Sit	○	Does not account for local, cheap

*1 to transparent film
*2 divided input
*3 The PC needs to install software
*4 can be replaced (but need to set up)
*5 can change penholder

■ System Environment

Anti-virus software will be user ready.

* Users may need to install antivirus software on their own.

|		Windows XP		Windows Vista	
OS		Windows XP			
		Pro		Ultimate	Business
Memory		Constitute the smallest	Recommend	Constitute the smallest	Recommend
		512MB	1GB	1GB	2GB or more
Display resolution		Constitute the smallest		Recommend	
		1,024 × 768		1,280 × 1,024 or more	
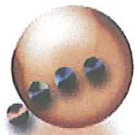
CG Palette

[AGMS Palette] is designed specifically for apparel and
interior designers have developed computer graphics software.
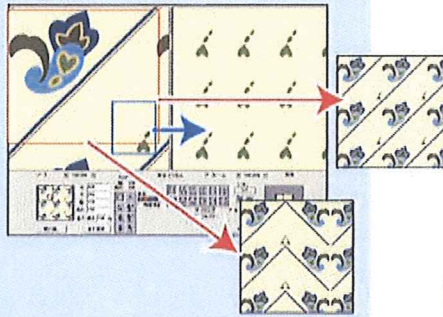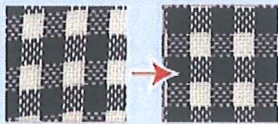
AGMS

Change Color
- Change the color of both
  Whether or textile printing and dyeing cloth, can simply edit the existing design color,
  or use the <Features> change color.

Flat color   Panchromatic
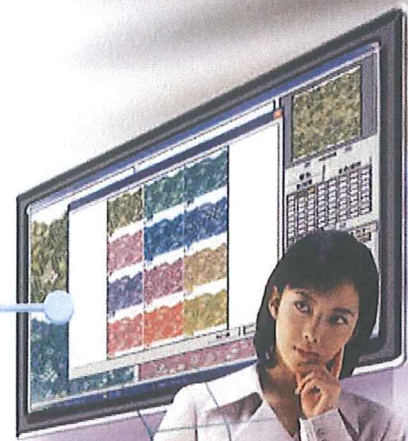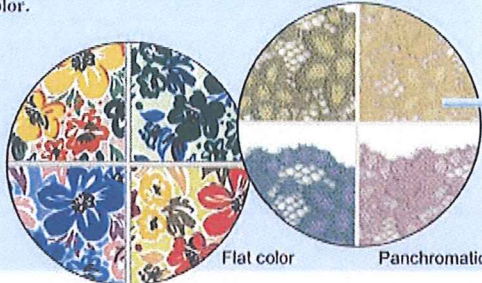
Repeat X
- Use of existing designs can be produced
  simply repeated cycle pattern.

- Scanned image skew correction
  Curve of skew and brightness adjustment,
 etc., can be watched and adjusted.

Knit *OPTION
- Simple production of knitting patterns
  Use the existing design,
 simply create knitting patterns.

ClothMaker Pro
- Production of textile design
  This is a start from the design of the shape of yarn,
  By using the software to create the color similar to
  the real fabric.
  Use it, you can get the real effect of
  textile design patterns.

ClothMaker Pro

ClothMaker
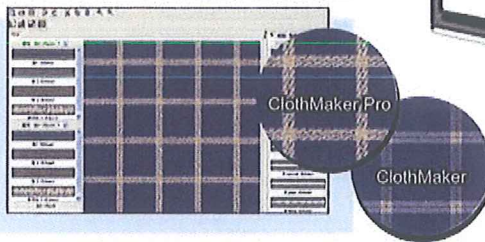
mapXmaker
- Create synthetic images of the software
  This is a composite image produced software
  (Windows version).
  It can simply go to clothing and
  interior decoration of the picture,
  Simulation try a variety of fabrics.
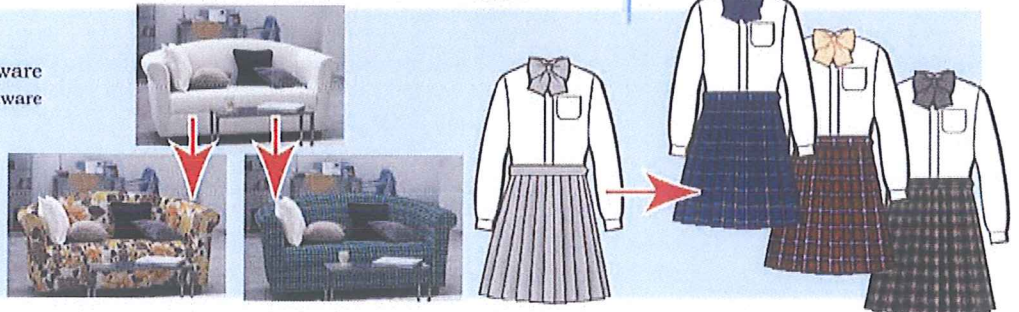
mapXviewer
- Image viewing software synthesis
  This is a presentation tool and a
  browser software(Windows version).
  It can simply configure the fabric to
  the picture above,
  In the same screen can display a plurality of
  configuration results.

"MapXmaker & mapXviewer", on the (lace) of dense slip holes
(Furniture / Interior Decoration) and other fabric configurations,
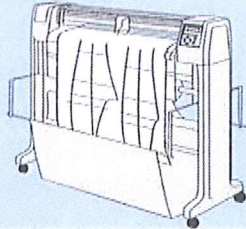there are good advantages of power.

8

Output device

According to the user's requirements and budget,
the proposal submitted by a variety of output devices.

AGMS

■ Vertical Drawing Cutting

● Output Pattern   Tissue (rolls)   units:mm

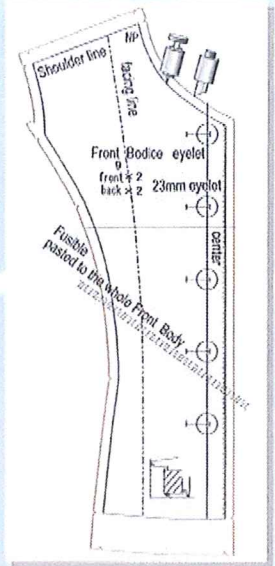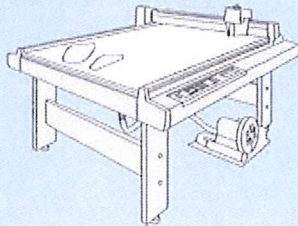|	MUTHO	GRAPHTEC
	AC800	CE5000-120AP
Effective width of paper	1,000	1,200
Standard document	Pencil	Oil pen
Options	Oil pen	Fountain pen
Output format	HP-GL	
Transfer Port	RS-232C	

■ Plate cutting machine drawing

● Output Pattern   Thick paper (paper cutting) vacuum   units:mm
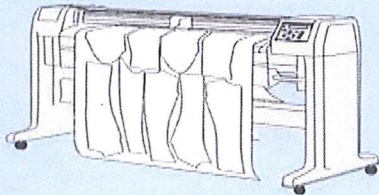
Paper effective width (X axis)	700	1,200	1,500	1,800
(Y axis)	900		1,200	
Output format	HP-GL			
Transfer Port	RS-232C			

MIMAKI／GRAPHTEC

Use : When cutting use. In particular, cut underwear board,
the required accuracy is high, should be equipped.

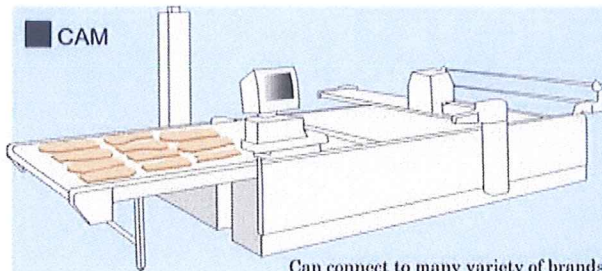## ■ Drawing Machine
Standard inkjet plotter

● Output real-inch map marker   units:mm

Effective width of paper	1,600	2,000	2,200
1°	Standard		
2"	Options		
Output format	HP-GL		
Transfer Port	LAN		
Roll device	Have		

Use :   Factory output is needed when the marker map used equipment,
or classification made after cut in CAM use.

■ CAM

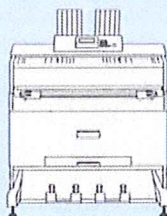● Automatic fabric cutting   units:mm

	Samples with	Large production		
Fabric pieces (W)	1,600	1,700	2,000	2,300
Fabric pieces (L)	2,400(Fixed)	2,000		
A high degree of fabric overlap	5	50,30		
Cutting Method	Way up and down reciprocating tool			
Transfer Port	LAN,FD			

Can connect to many variety of brands CAM

■ Other
Paint only
(without cutting function)
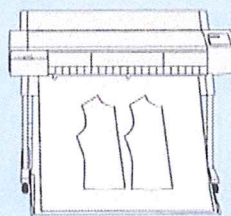
● Small marker map
● Other bills

● Lace row boards
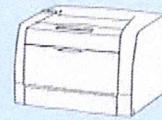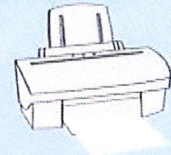
Digital Copiers   Large-scale ink-jet printer   Laser Printers   Inkjet Printers
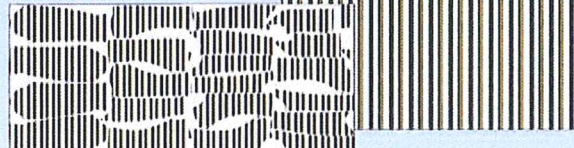
■ Dedicated computer graphics output

Large-scale ink-jet printer
● Pattern-In-Print
(Cardboard printing output)

● Repeat Print (Fabric printing output)

Three-dimensional printer

● printed in the products