

SmartKnitter®



Website
www.skt.com.hk

Forum
www.smartknitter.cn

WeChat
ID: SmartKnitter

TIANYI IS THE FUTURE

TIANYI
FAST SAMPLING
EASY PROGRAMMING
COST CONTROL
QUALITY CONTROL
BETTER COMMUNICATIONS

VERSION NOV.2021

SKT LIMITED

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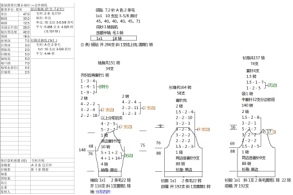
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TIANYI - THE SEAMLESS KNITWEAR SOLUTION

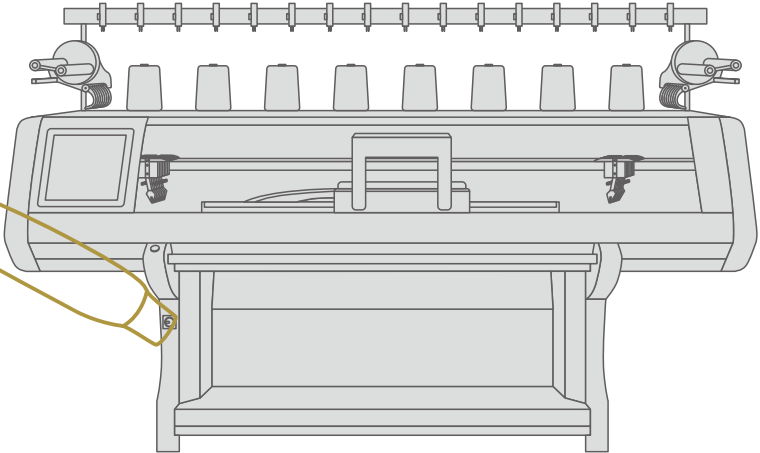
Leading a new direction in intelligent knitwear production



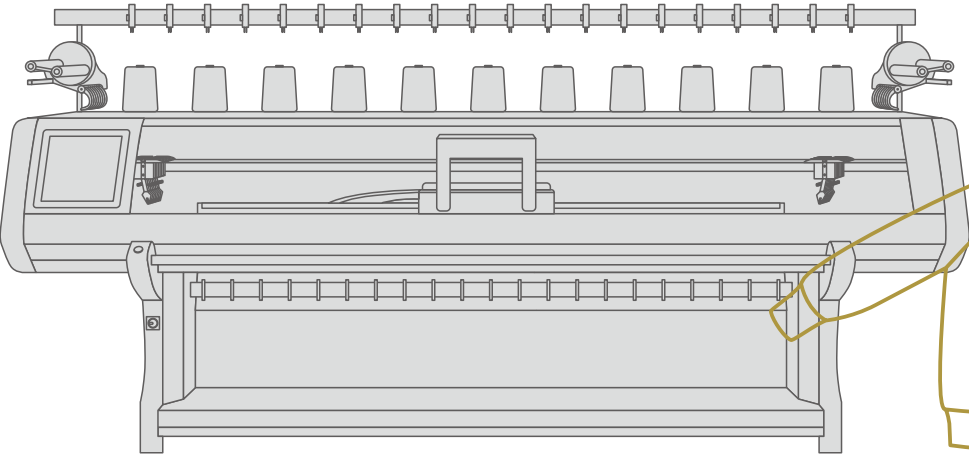
SmartKnitter®
Semi-TianYi Knit Specification



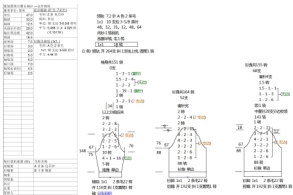
Semi-TianYi



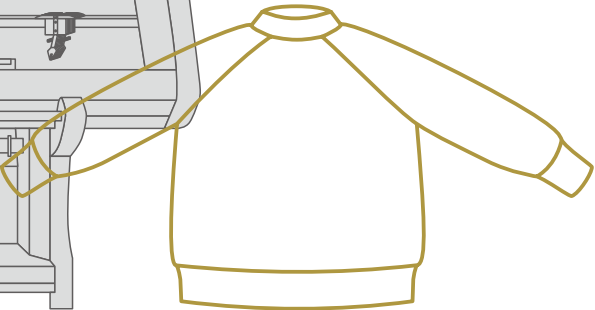
Regular V-bed Machine



V-bed Knitting Machine with Extra Working Width for TianYi



SmartKnitter®
TianYi Knit Specification



TianYi

TIANYI IN SMARTKNITTER®

Seamless TianYi knit programs are generated automatically by SmartKnitter® using traditional drafting method in knitting specifications. TianYi allows better time management in production cycle and increase flexibility in custom-made orders. TianYi is the key to sustainable development in our industry.

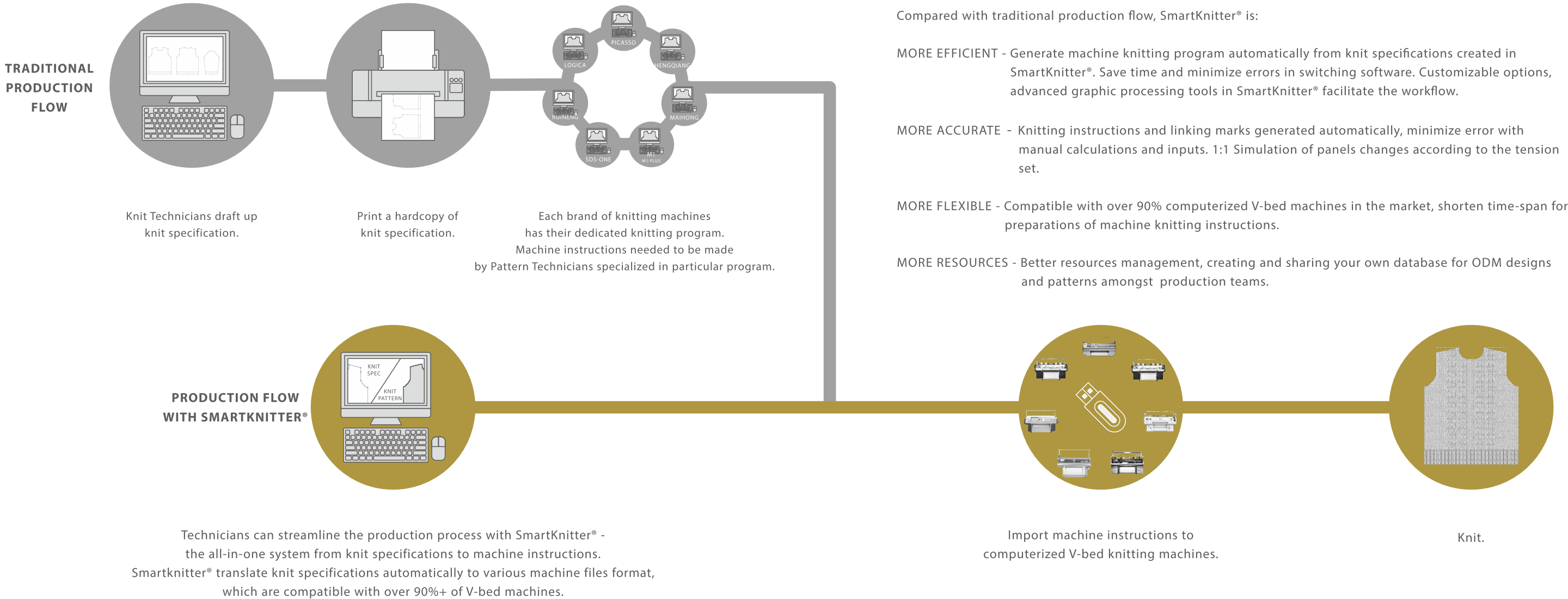
Style Used in the Analysis

Mock-Neck in Links-and-Links / Sweep in 2X2 Rib / Body in Single Jersey / Set-in Sleeve
Body 56CM / Chest 44CM / 14G / Knitting Speed 85

	Traditional Method	Semi-TianYi	TianYi
Knitting Time (Min)			
Front Panel	17'32"	36'08"	58'07"
Back Panel	17'05"		
Sleeves	21'32"	28'24"	
Total Time	56'09"	64'32"	
Machine Cost	0.130 RMB / Min [171.6 RMB / Day (22 hrs / 1320 mins)]		
Knitting Cost (RMB)	7.300	8.389	7.555
Linking Time (Min)			
Sleeves Linking	5'30"	5'30"	/
Armhole Linking	7'30"	/	/
Total Time	13'00"	5'30"	/
Linking Cost	0.398 RMB / Min [238.5 RMB / Day (10 hrs / 600 mins)]		
Linking Cost (RMB)	5.174	2.189	/
Handstitching Time (Min)			
Handstitching	4'30"	3'00"	3'30"
Neck Trim Grafting	11'30"	/	/
Total Time	16'00"	3'00"	3'30"
Handstitching Cost	0.378 RMB / Min [227RMB / Day (10 hrs / 600 mins)]		
Handstitching Cost (RMB)	6.048	1.134	1.323
Total Cost	18.522	11.712	8.878

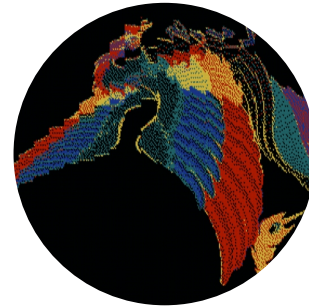
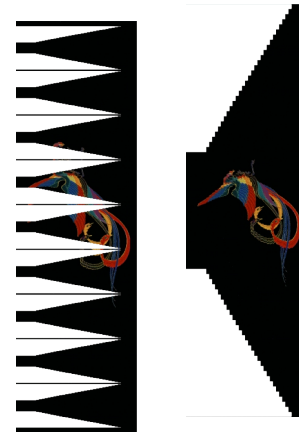
FAST SAMPLING

SmartKnitter® is an All-in-One solution from knit specifications to knitting instructions for computerized machines
We substantially decrease the sample making time-span and promote efficient production cycles



TIANYI IS THE FUTURE

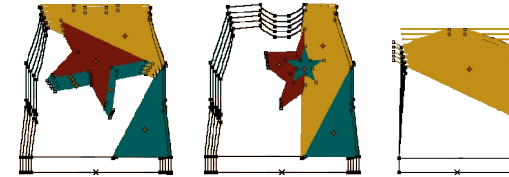
Knitted Panel Simulation



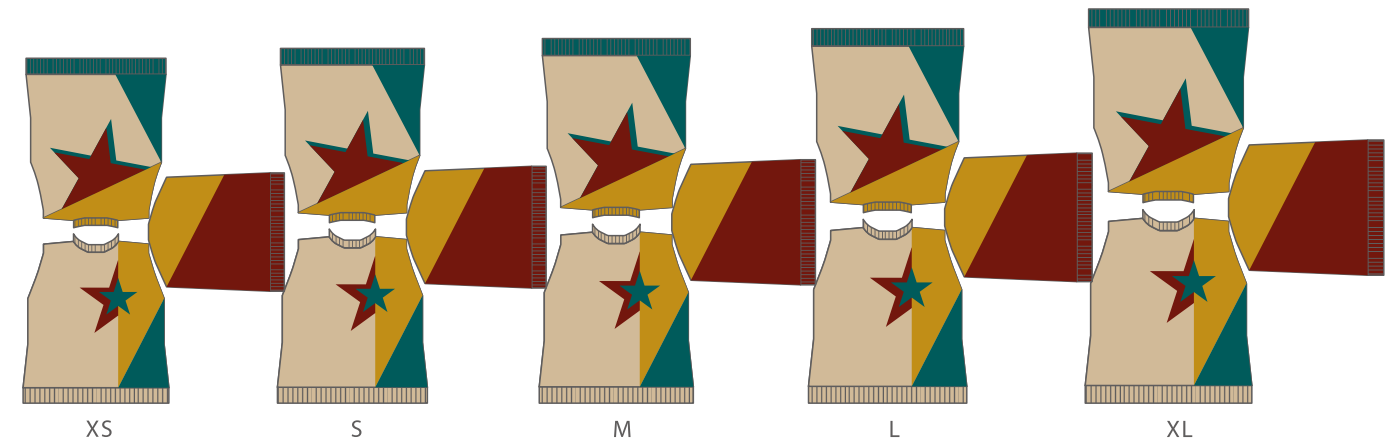
Our Exclusive Pattern Fill Tool -
Pattern transitions seamlessly.

Pattern created in knit specifications can be graded automatically according to customized size charts to ensure Jacquard patterns placed correctly in all sizes without complicated manual grading.

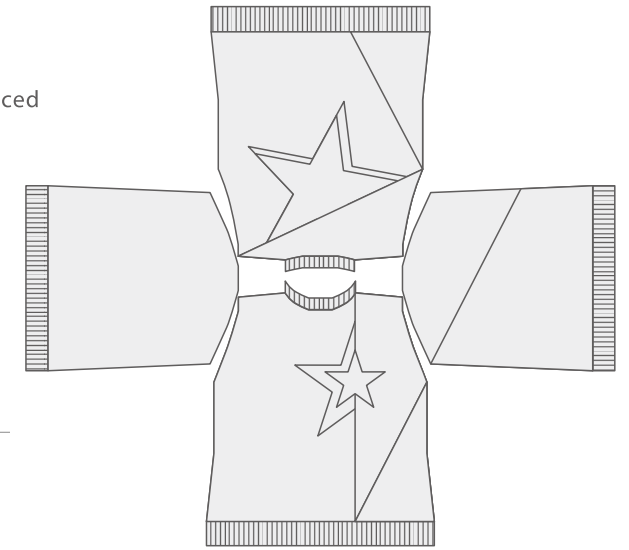
尺码 M	
量度单位: 厘米	肩后总宽(背肩, 45度)
肩宽 42.0	衣长: A 长 2 条半
领围 50.0	袖围: 特小
身长 61.0	面尺码: 10 支 14 磅 8 英寸
胸部斜度 22.0	平方: 6.35 呎 X 4.15 呎
腰围 19.0	(0.22)
前颈深 4.0	袖口及袖口 (2x1)
后颈深 4.0	衣长: A 长 2 条半
袖口 50.0	面尺码: 5 呎 11 吋 2 3/4 吋
腋窝 57.0	平方: 6 呎 6 吋
下摆围 50.0	
领口高 4.0	
袖口高 6.0	
袖口宽 5.5	
袖口口 20.0	
袖口长度 53.0	
袖口 22.0	
袖口高 7.0	
袖口袖口 3.0	
每件打重量 (磅) 毛料名称	
前重量 A 2 条 100% 羊毛	
后重量 C 2 条 100% 羊毛	
袖口重量 D 2 条 100% 羊毛	
领口重量 E 2 条 100% 羊毛	
其它	
总重量	
复核人	



Pattern set-up in knit specification



Auto-graded Jacquard with geometric patterns



Design

SMARTCLOUD™

Over 1000+ dedicated standard styles cloud and original swatches cloud for download

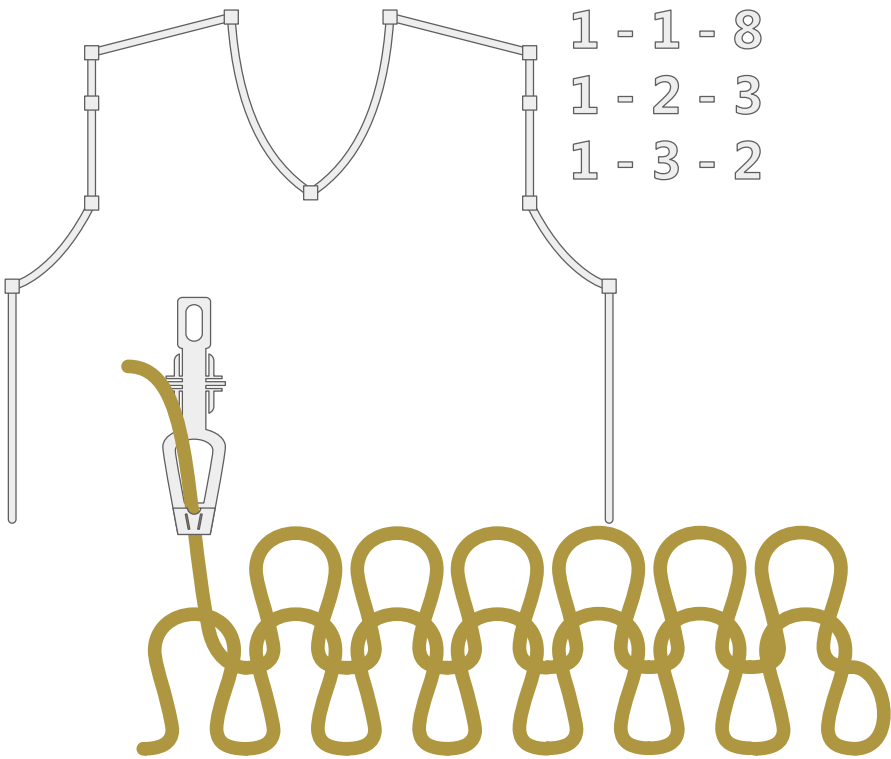


STANDARD STYLES CLOUD AND SWATCHES CLOUD

Create your new style in one-click

WORKING WITH SMARTCLOUD™

- Speed up the design flow for fast fashion cycles, minimizing designing, sample-making and approval time.
- Complete package for swatches available:
- yarn and supplier information for material order
 - pictures and files for swatches
 - machine knitting instructions
 - data fact sheet for cost estimation



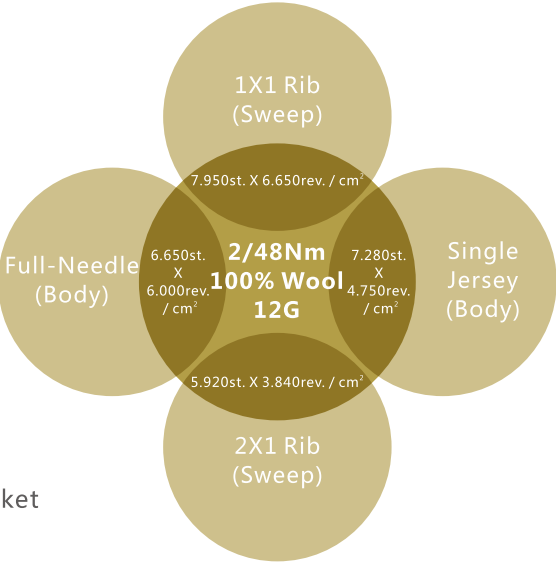
我的平方墙										管理我的墙
材料名称选择 墙 毛纱品牌 规格选择 纤维 山绒 品牌规格 品牌/下标										
墙号 墙号 墙号 墙号 墙号 墙号 墙号 墙号 墙号 墙号 墙号										
毛纱名称	支数	股数	纤号	规格	墙号	墙号	墙号	墙号	墙号	快速搜索
220 100%纯棉	2/20 ECC	3股	70	1x1罗纹	100% 棉	棉	3.600支 x 4.010姆 / cm²	宽10姆宽2-4.5姆寸	半400.218寸	
PTT混纺	2/42 Nm	1股118和100混	120	单边	60% 弹性纤维 / 30% 棉(混纺) / 10% 羊毛	棉	7.420支 x 5.200姆 / cm²	宽10姆宽1-3.5姆寸	半400.155寸	
PTT混纺	2/36 Nm	1股118和100混	120	单边	60% 弹性纤维 / 30% 棉(混纺) / 10% 羊毛	棉	7.230支 x 4.950姆 / cm²	宽10姆宽1-3.5姆寸	半400.149寸	
PTT混纺	2/32 Nm	1股	120	单边	47% 弹性纤维 / 25% 棉(混纺) / 20% 羊毛(混纺) / 8% 羊毛	棉	6.188支 x 4.180姆 / cm²	宽10姆宽1-4姆寸	半400.162寸	
三七毛	2/48 Nm	1股	140	单边	40% 棉(混纺)(人混混) / 30% 棉(混纺) / 30% 弹性纤维(混纺)	棉	8.072支 x 5.433姆 / cm²	宽10姆宽1-2姆寸	半400.132寸	
三七毛	2/48 Nm	1股	140	圆领	40% 棉(混纺)(人混混) / 30% 棉(混纺) / 30% 弹性纤维(混纺)	圆	8.072支 x 12.795姆 / cm²	宽10姆宽1-1姆寸	半400.132寸	
三七毛	2/48 Nm	1股	120	单边	70% 棉(混纺)(人混混) / 30% 羊毛	棉	6.130支 x 4.100姆 / cm²	宽10姆宽1-3姆寸	半400.149寸	
三七毛	2/48 Nm	1股118和100混	120	单边	70% 棉(混纺)(人混混) / 30% 羊毛	棉	7.400支 x 5.100姆 / cm²	宽10姆宽1-4.5姆寸	半400.169寸	
三七毛	2/32 Nm	1股	120	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	6.500支 x 4.100姆 / cm²	宽10姆宽1-3.5姆寸	半400.154寸	
三七毛	2/48 Nm	2股	120	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	5.860支 x 3.937姆 / cm²	宽10姆宽1-3姆寸	半400.132寸	
三七毛	2/32 Nm	6股	90	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	3.200支 x 2.200姆 / cm²	宽10姆宽2-7姆寸	半400.122寸	
三七毛	2/28 Nm	2股	70	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	3.900支 x 2.600姆 / cm²	宽10姆宽2-3.5姆寸	半400.299寸	
三七毛	2/28 Nm	4股	90	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	2.620支 x 3.900姆 / cm²	宽10姆宽3-3姆寸	半400.166寸	
三七毛	2/48 Nm	1股	140	单边	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	7.400支 x 5.100姆 / cm²	宽15姆宽1-7姆寸	半400.117寸	
三七毛	2/48 Nm	1股	120	2x2罗纹	30% 羊毛 / 70% 棉(混纺)(人混混)	棉	12.670支 x 5.100姆 / cm²	宽15姆宽2-2.5姆寸	半400.122寸	
显示1到15条,共1,762条记录										
<< 上一页 第1页 / 共118页 下一页 >>										

TENSION CLOUD

A community-based tension library

sharing tensions of common stitches using various yarns in the market

Information can be applied to working knit-spec



EXPORT AND KNIT

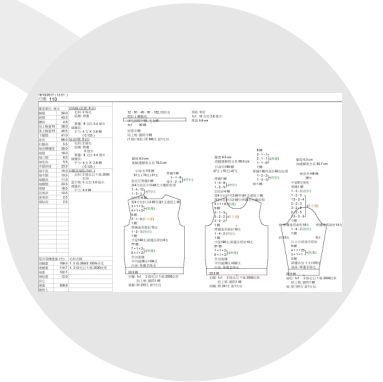
From knit specifications, swatches patterns, knit programs to machine instruction files all ready in one-click in SmartKnitter®

ONE-CLICK EXPORT

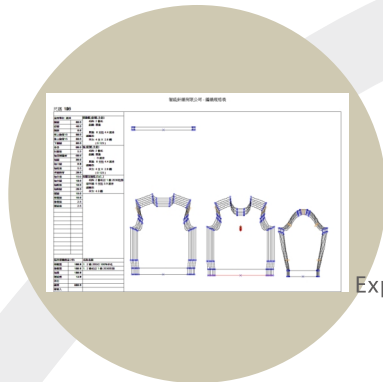
SmartKnitter® can import all information from the approved sample to create graded machine instructions for production in one-click



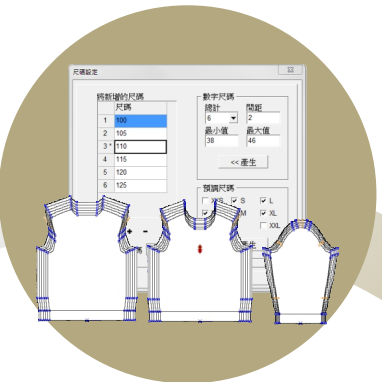
Fill selected pattern by fill-point indicated in the knit specification



Create knit specification for 1st sample



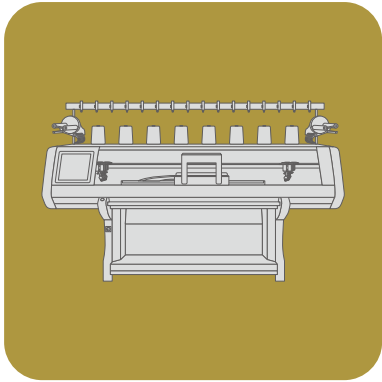
All sizes graded automatically



Import all user settings from the approved sample: pattern allocations, yarn carrier & machine set-up
Export automatically into machine instructions for production



SmartKnitter® can import pattern allocations, yarn carrier & machine set-up from the approved sample for quick export



Ready for production

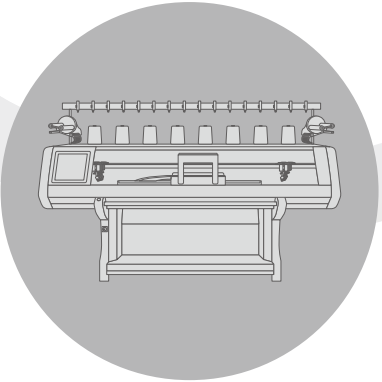
SAMPLE PHASE

PRODUCTION PHASE

ONE-CLICK EXPORT is particularly beneficial to the custom-made market as technicians can import client sizes and sample set-up for fast production

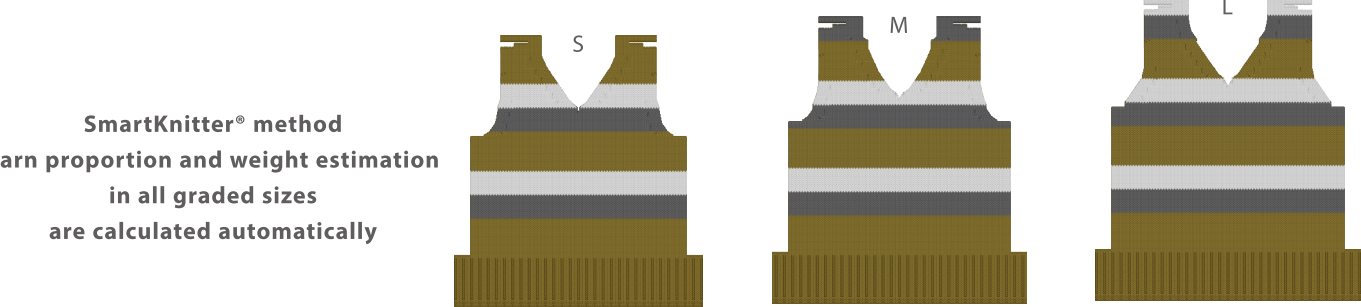
Ready for sample making

Translate into machine knitting instructions



COST CONTROL

SmartKnitter® provide accurate yarn proportion and weight estimation for all graded sizes
We facilitate better time control and budgeting for yarn orders and production



		S	M	L		
Wastage	Quantity (dz)	1	1	1	Average	Total
8.0%	Khaki	0.7167	0.7353	0.7904	0.7475	2.2424
9.5%	Dark Grey	0.2292	0.3010	0.3431	0.2911	0.8733
11.0%	Light Grey	0.2207	0.2367	0.2903	0.2493	0.7478
	Wt. per dz (lb)	1.1666	1.2730	1.4238	1.2879	3.8635

Estimate yarn proportion and weight without unraveling knitted samples for more accurate material orders

Cost Reduction after Adopting SmartKnitter® into Production Chain						
Yarn Weight & Percentage Estimation						
Annual Sample Quantity (pc)	Unraveled Samples for Yarn Weight Estimation	Annual unraveled samples (pc)	Average Weight per Sample (lb/pc)	Average Yarn Price (RMB/lb)	Knitting Cost per Sample (RMB/pc)	Total Cost for Samples (RMB)
12,000	10%	1,200	0.563	50	8.25	43,680
Cost Reduction by Accurate Material Estimation						
Annual Production (pc)	Average Weight per Garment (lb/pc)	Average Yarn Price (RMB/lb)	Annual Yarn Usage (lb)	Annual Yarn Cost (RMB)	Improved Estimation Accuracy	Cost Reduction (RMB)
1,260,000	0.563	50	709,380	35,469,000	+1%	354,690
With the above data, cost reduction by using SmartKnitter® for budgeting: 398,370 RMB / yr						

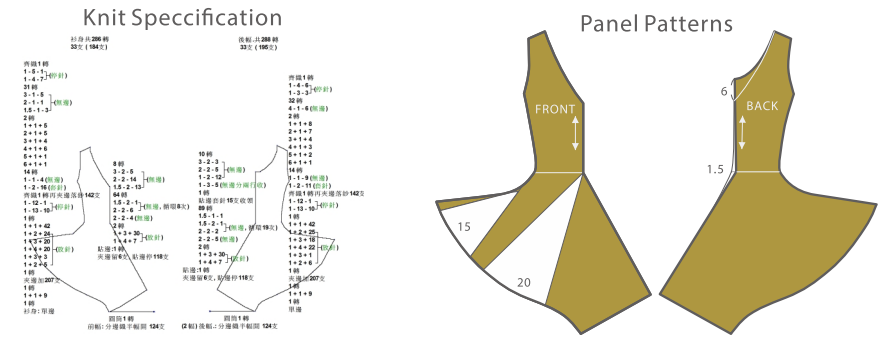
QUALITY CONTROL

Accurate interpretation from standard basics to fashion styles

PATTERN IMPORT FOR FAST KNIT SPECIFICATION CREATION

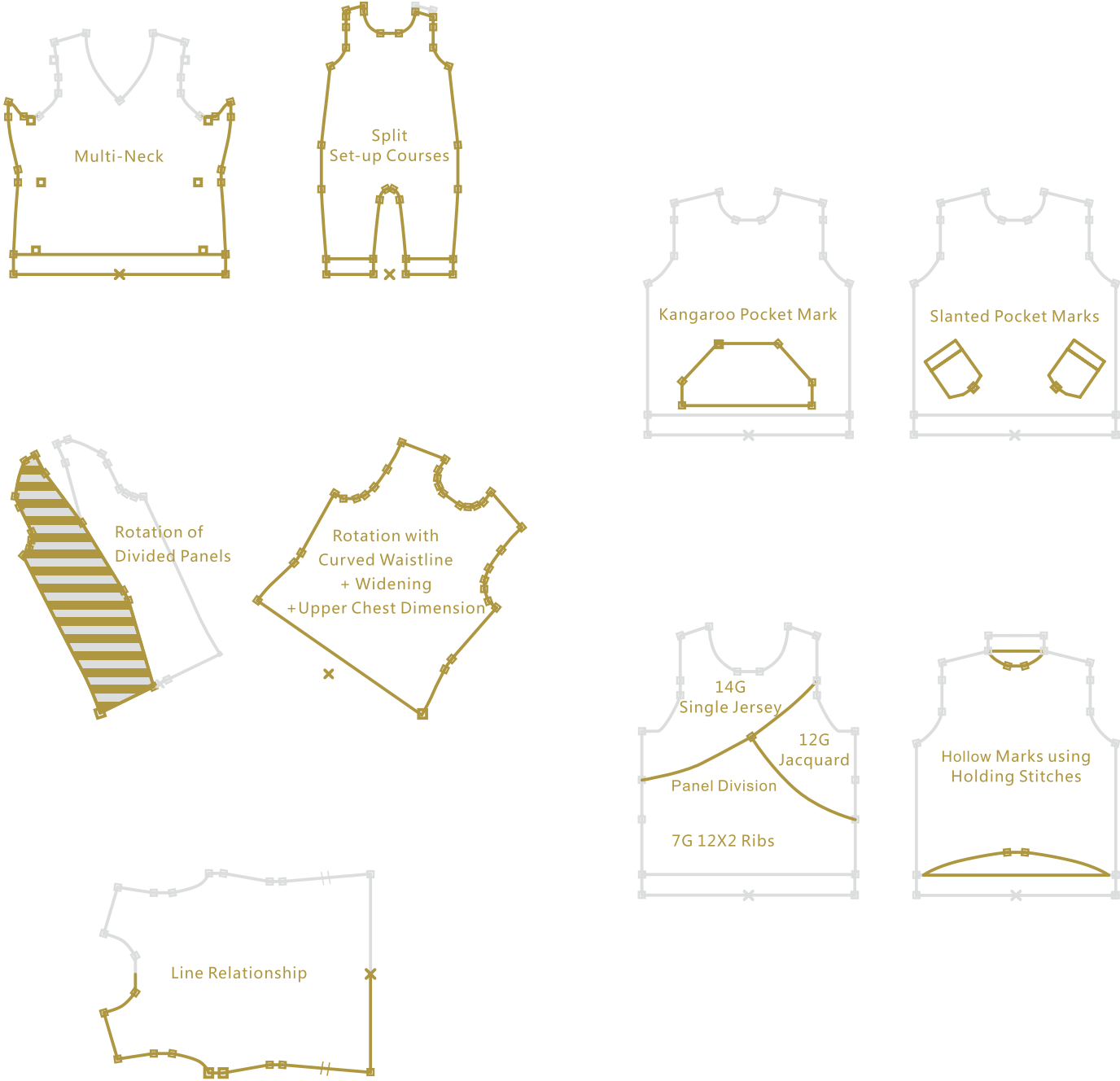
Use patterning technique to help drafting up panel shapes for better fit and style

TIANYI IS THE FUTURE



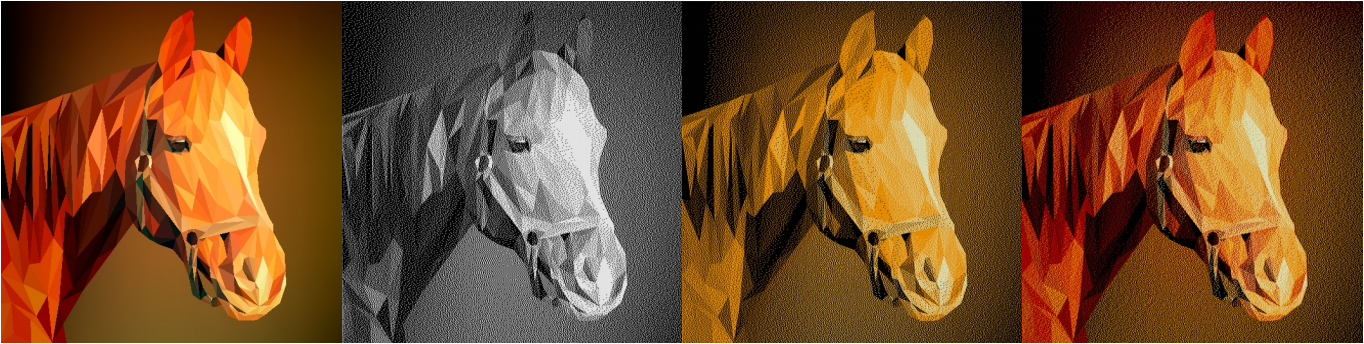
INNOVATIVE FUNCTIONS FOR FASHION GARMENT SILHOUETTES

Quality garment knit-specifications created promptly to minimize sampling time.



GRAPHIC PROCESSING

Realistic Jacquard pattern creation with Colour Dithering
Consistent product quality and faster production time



Original Image

2-Colour Dithering

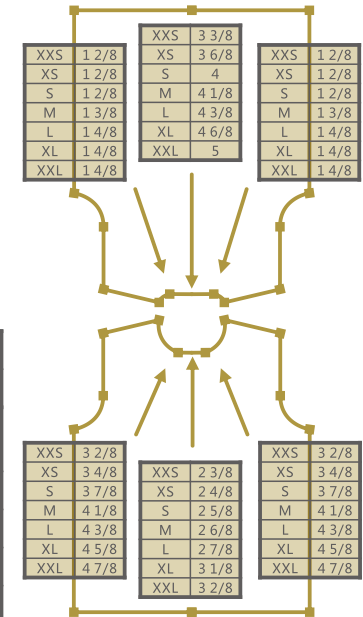
3-Colour Dithering

4-Colour Dithering

All panel sizes are graded into required sizes based on clients' size charts
Real-time panel shape simulation for proofing while assuring both shapes and proportions unchanged.

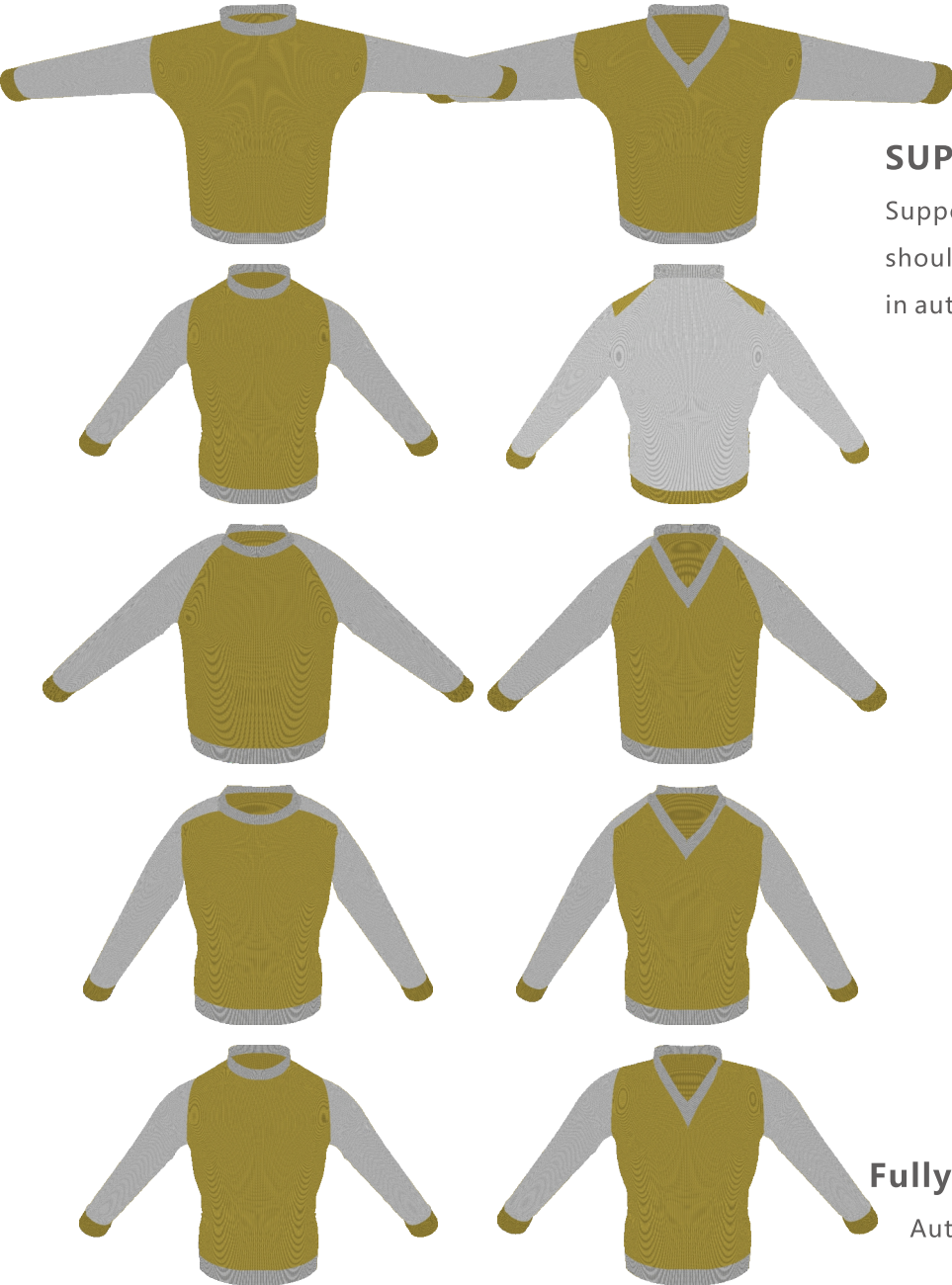


Linking sizes clearly stated in the linking instructions for better quality control

[illegible]

3D SIMULATION

Create 3D simulations from knit specifications to help minimize sampling time

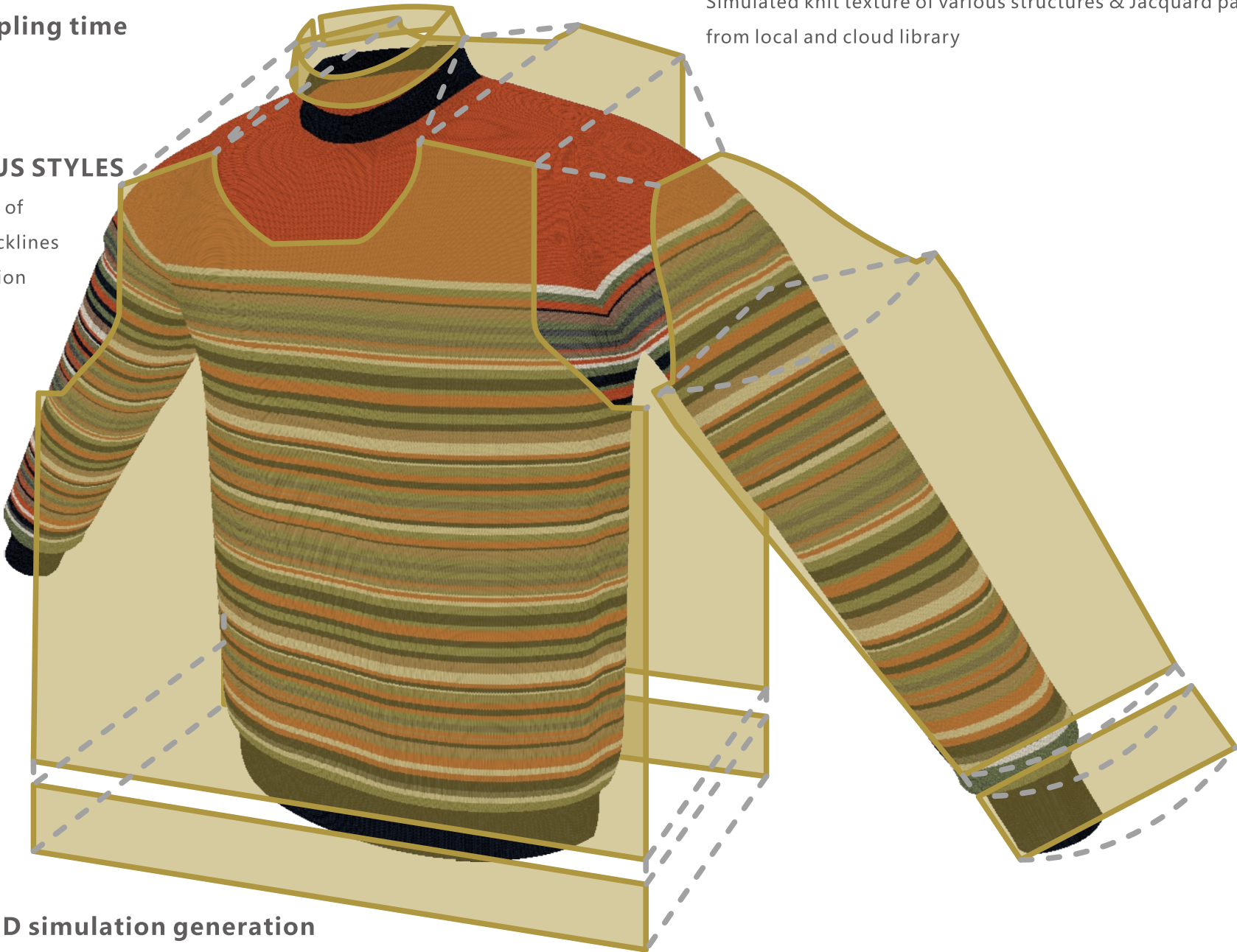


SUPPORT VARIOUS STYLES

Supports a combination of shoulder shapes and necklines in automatic 3D simulation

Fully Automated 3D simulation generation

Automated linking according to styles made in knit-spec
3D simulation can be viewed in under 1 minute



Simulated Knit Texture

Simulated knit texture of various structures & Jacquard patterns from local and cloud library

BETTER COMMUNICATION

With extensive data generated in SmartKnitter® manufacturers can set-up a systematic workflow for better management



DATA FOR PRODUCTION ORDER

Provide accurate time estimation and yarn cost before sample making for sales team to provide quick and standardized quotation

Production Team can better coordinate the production orders and manpower

ORDER COORDINATION SYSTEM

Seamless integration of order creation, coordination and production information into one system

Strengthen communications between all departments involved

Improve efficiency and enhance response time

Close supervision in work distribution, sample making and production process

DATABASE

Utilize the built-in database system in SmartKnitter® with previous specifications and turn tens of thousands of knitting specifications into valuable company assets

Improve sample room management and production efficiency

Equipped with a quick search function to look up knit specifications within various categories, yarns, customers or gauges

Enterprises can authorize users to share data in the database to promote internal communication to promote a more systematic management within the company

ERP INTEGRATION

SmartKnitter® can integrate with ERP system for material and size information sharing

ERP system can extract the production data of colour code, dye lot, weight ratio of materials used from SmartKnitter® database

Automatic data sharing reduces errors in translation and repeated manual input



SKT Limited is a Hong Kong-based Application Service Provider specializing in the development and marketing of high-quality, interactive online software solutions for the knitwear industry.

Our renowned product SmartKnitter® is the leading design-production software in the knitwear industry. It’s function such as TianYi seamless knitwear solution, Smart Cloud, Colour Grouping and Dithering, Pattern-Fill with Partial-knitting Panels, and Linking Simulations, etc., provide a complete solution from drafting knit specifications to producing knit programs, which has been assisting our clients to improve production efficiency while enhancing quality.

The founding stone of our company is interactive design, we believe the only way to deliver tailor solutions that fit our customers need is by growing interactively with the industry. We aim to provide all-in-one knitwear solution to the industry with a reasonable price in order to succeed in a rapidly evolving and highly competitive environment.



SmartKnitter® serves our clients using the application service provider model. Enterprises can enjoy this innovative and high-quality software without investing huge amount of money to purchase expensive hardware and application systems. SmartKnitter® immediately improves enterprises’ operational quality and competitiveness. Using the ASP software rental model, users do not need full-time technicians to manage the system, let alone any management and maintenance work

Users only need to pay a fairly low license fee to get high-quality services:

- SmartKnitter® Software
- Detailed online guide and user manual
- Complimentary software maintenance and version updates
- Complimentary customer service
- Online mailbox service
- Instant remote assistance*

*Final interpretation right belongs to our company

OUR TECHNICAL SERVICE TEAM

Aiming at improving the knitwear industry in the fast fashion era, our company provides tailored professional services for our customers:

1. Provide solutions for proofing and production workflow optimization
2. Enhance software functions according to customers’ needs
3. Training and support for customer's production teams
4. Provide the most advanced technical support and free training services in the industry
5. Swatches development, leading innovation, market trends sharing and more...

Members of our support team not only have extensive experiences working in the knitwear industry for many years, they are also passionate about sharing their knowledge, strive to provide the best services to our customers.