QuickCut

AUTOMATIC FABRIC CUTTING MACHINE

SMART CUTTER WITH ADVANCED CUTTING STRATEGIES

LEADING HARDWARE STRUCTURE

—

1

With tough materials, advanced features, and powerful performance, we provide products with extremely high stability and reliability.

雅智慧裁床，广泛适用于服装、汽内、家具家私、船航空、箱包鞋帽等行。大模批量化生提供完美裁剪解决方案，帮助您以最佳的速度和效率行生。

Favorable Smart Cutters are widely used in textiles and clothing, automotive interior, furniture and homefurnishings, ship and aviation, bags and shoes and hats industries. It provides perfect cutting solutionsfor mass batch production, helping you to produce with optimal speed and efficiency.
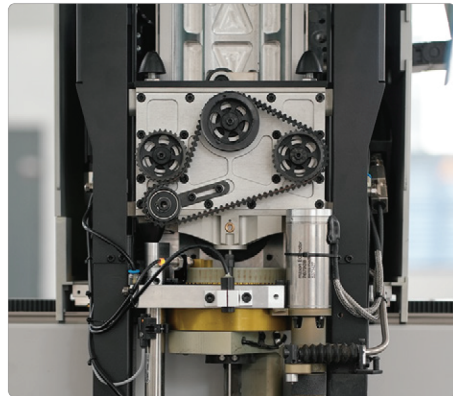
HIGH EFFICIEN- CYCUTTING HEAD

2

Equipped with high power motor and high performance oscillating box, the maximum amplitude can reach 6000r/min, providing strong power output.

Maximum amplitude speed
6000/min

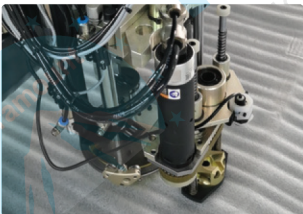Maximum cutting thickness (after adsorption)
90mm

SPECIAL DYNAMIC TOOL POST DESIGN

● Reduces the chance of tool breakage during acceleration and has a tool breakage warning function.
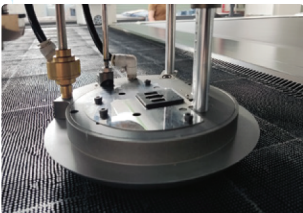
CRASH QUICK RESET DEVICE

● The beam has a collision quick reset device, which effectively protects key parts and personal safety.

DIGITAL HEATING SYSTEM FOR POSITIONING DRILLS

● The drilling needles are digitally heated and can be set to different temperatures according to different materials, easily adapting to various materials.

BLADE COOLING SYSTEM

● Specially designed double cooling knife disc provides double cooling effect, combined with software algorithm, it can easily cope with fabrics with low melting point, no sticking and higher cutting precision.
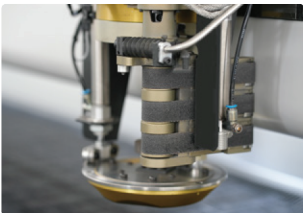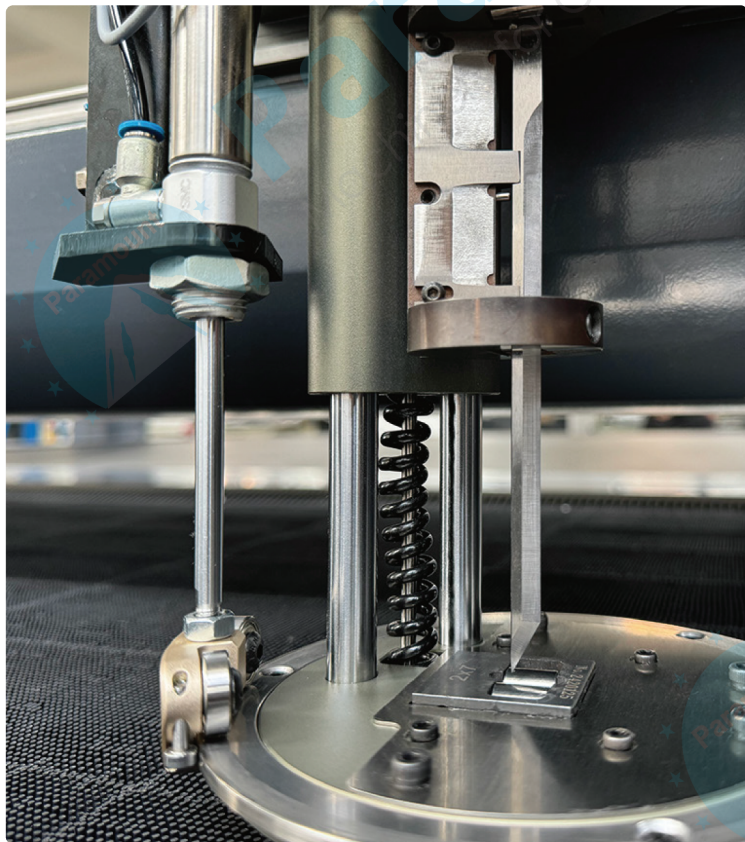
HIGH-SPEED SHARPENING SYSTEM

● Sharpening mechanism of up to 15,000r/min keeps blades sharp and improves cutting efficiency.

OMNIPOTENT CUTTER

3

FULL-FEATURED BLADE

- The unique blade material and precision manufacturing process make the blade not only adaptable to various cutting needs, but also more stable and durable.

FHIGH-PRECISION BLADES

- Made of high-quality materials and subjected to stringent quality control and durability tests, it is a must-have for cutting jobs that demand the highest level of precision.

INTEGRATED BED

4

The integrated bed specially developed for long-term stable cutting improves stability and reduces installation time at the factory, eliminating initial installation deviations.
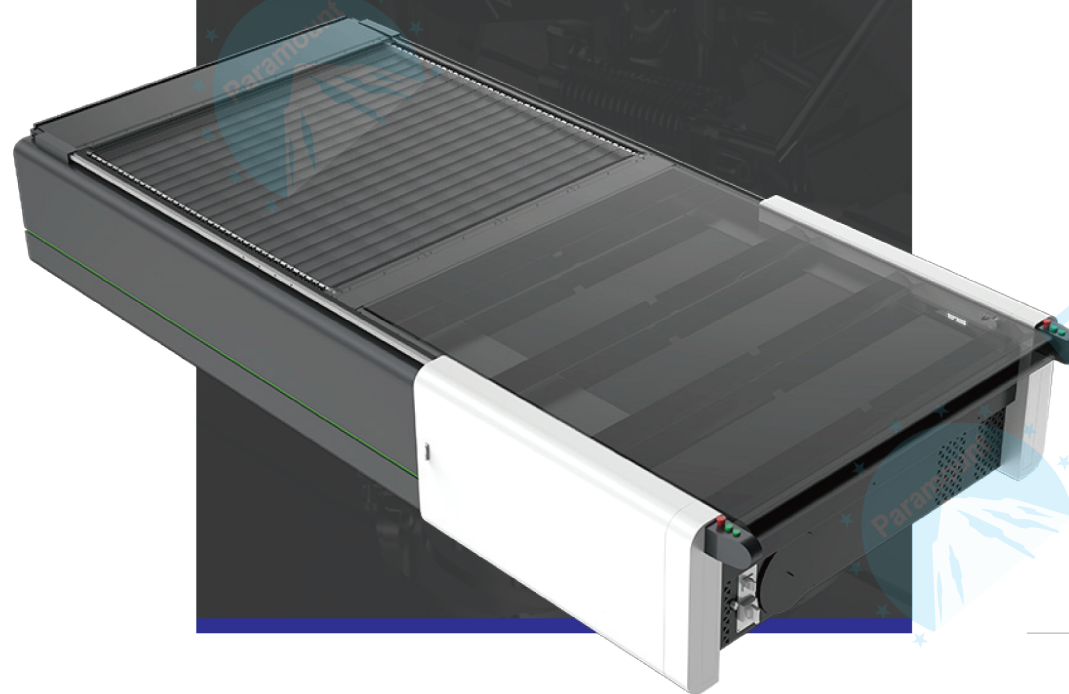
HIGHLY EFFICIENT ADSORPTION SYSTEM

- The unique blade material and precision manufacturing process make the blade not only adaptable to various cutting needs, but also more stable and durable.

DYNAMIC SUCTION COMPENSATION

- Sensors monitor the adsorption state of the fabric in real time, and once deviations between the fabric and the cutting machine are detected, compensatory adjustments are automatically made so that the fabric can always maintain a close fit with the surface of the cutting machine.
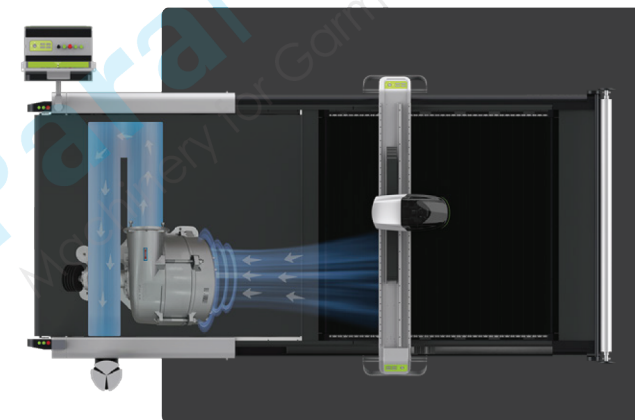
GLOBAL SOFTWARE CONTROL SYSTEM

Equipped with full-area digital control technology, combined with multiple sensing hardware, it achieves world-class multi-layer fabric full function cutting driving and application functions.

EFFICIENT TAILORING CAPABILITY

1

FULL-TIME TAILORING TECHNOLOGY 「CUT AS YOU GO 2.0」

- Cutting piece self-adaptive level of 'cutting while walking', regardless of the size of the cut piece, can be real-time adaptive and perform accurate continuous cutting work, continuous negative pressure and accurate transportation, reduce fabric displacement; no need for secondary positioning, improve cutting efficiency; no need to reserve the waste material over the window, saving fabrics.

Overall cutting efficiency increased by over 20%. **20%**
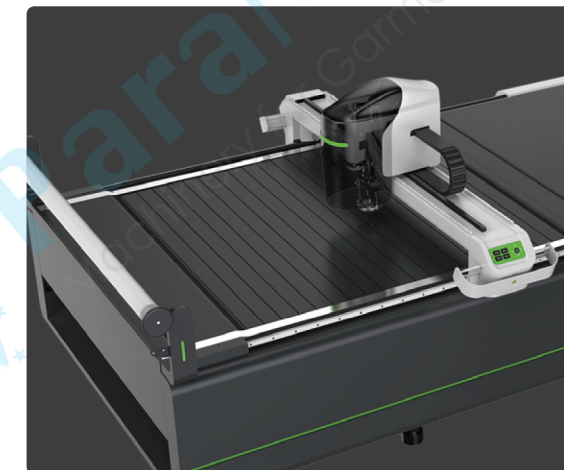
KNIFE DYNAMIC COMPENSATION TECHNOLOGY「INTELLIGENT TOOLPATH」

- Relying on powerful global algorithms, it intelligently analyzes the possible offset of the cutting knife in the cutting path, presets the trajectory in advance, combines with intelligent cutting speed control, and dynamically compensates for and reduces t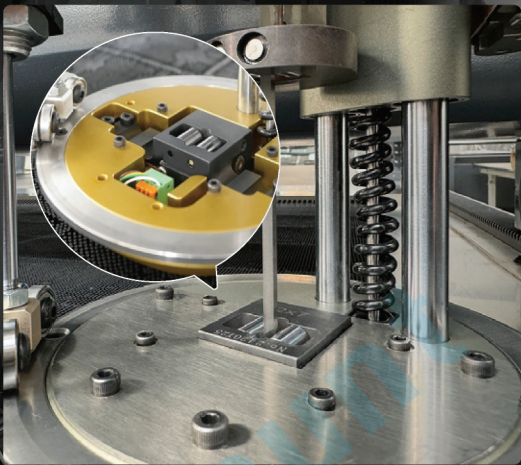he offset of the cutting knife in the area of the cutting piece where knife offset is likely to occur; a number of dedicated sensors monitor the angle of the blade in real time (knife intelligence), and dynamically corrects the offset that has been generated to ensure consistency of all the cutting pieces.

10%

Overall cutting efficiency increased by over 10%.

ALL-AREA COMMON LINE CUTTING TECHNOLOGY

- Globally analyze two close enough cropping trajectories, intelligently and automatically plan the common line cropping path, intelligently convert the two cropping trajectories into a common line that only needs to be cropped once, and intelligently assign the lower knife point, but not cropping, without hurting the film.

整体裁剪效率提高
5%
Overall cutting efficiency increased by over 5%.
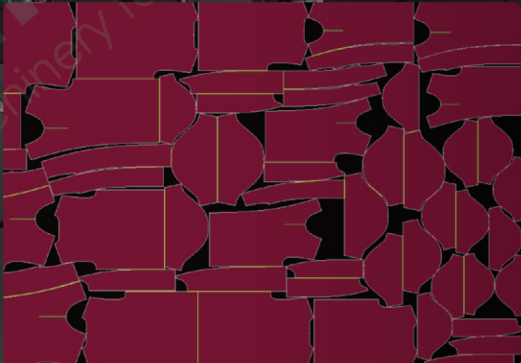
GLOBAL AI TRIMMING STRATEGY
— 2

ZERO-CLEARANCE CUTTING

- Powerful software-driven optimization of the knife trajectory ensures efficient cutting of adjacent pieces "without hurting the piece", making "zero-gap" cutting possible and increasing the utilization rate of layout space by about 2%.

DYNAMIC CUTTING SPEED

- The cutting head dynamically adjusts the cutting speed according to the actual cutting area for adjacent and edge cuts, realizing a balance between cutting accuracy and efficiency.

ADAPTIVE CROPPING OF INSIDE ANDOUTSIDE CORNERS OF CUT PIECES

● Intelligent calculation of corner cutting strategy, but no over cut, to protect the accuracy of the inner and outer corners.

AI CROP PATH OPTIMIZATION

● Real-time analysis of the global cutting pieces, according to the fabric and the number of layers, intelligently optimizing of the cutting order of each piece, to ensure the accuracy and efficiency .

AUTOMATIC OPTIMIZATION OF THE LOWER CUT POINT

● No need to set up manually, the system automatically carries out intelligent calculation on the global cutting piece, selects the optimal lower knife point, avoids injuring the piece in the cutting process, easier to use and more efficient.

AI-GRADE
EASY-TO-USE FEATURES

3

INTELLIGENT CROPPING MODE

● With a variety of fabric cutting preset mode in the system, it automatically adjusts the cutting parameters, so that the cutting results are more in line with the characteristics of the fabric, no longer need to manually set up cumbersome, de-skill, more easy to use at the same time, significantly improve the efficiency of cutting.

SOFTWARE COMPATIBILITY

● Compatible with most of the CAD formats on the market; support for single and multi-task cutting, can set up multiple cutting jobs at once; cutting parameters intelligent storage, flexible access.
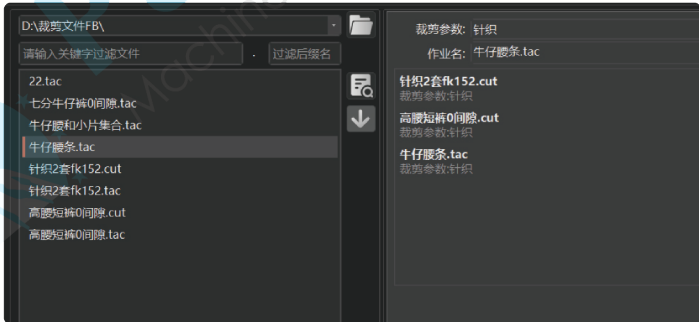
INTEGRATED MULTITASKING TAILORING

- Multiple rows of material charts can be integrated One setting can complete multiple jobs, perfectly realizing high and low layer cutting. At the same time of cutting, you can preset the next row of material charts, parallel operation, saving time and improving production efficiency.

CUTTING JOB SECURITY SYSTEM

- The cutting path is memorized in real time during the cutting operation, and can be quickly recut when power failure recovery to improve efficiency.
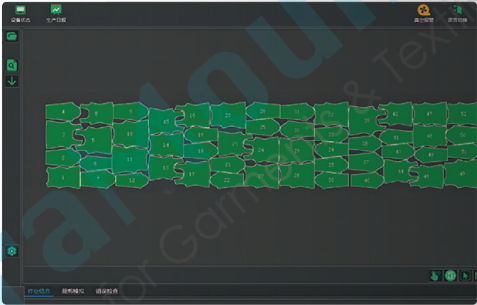
ACONSUMABLES REAL-TIME MONITORING SYSTEM

- During the cutting process, the system can monitor the wear and tear of equipment consumables in real time, and has a prompt function, as well as an automatic pause function when the wear and tear of consumables reaches its maximum value, ensuring the normal use of the equipment.

MODEL AND PARAMETERS
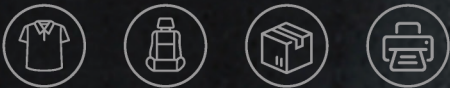
Textile and clothing, automotive interior, advertising packaging, composite materials, leather industry, etc

04

TEXTILE AND CLOTHING INDUSTRY

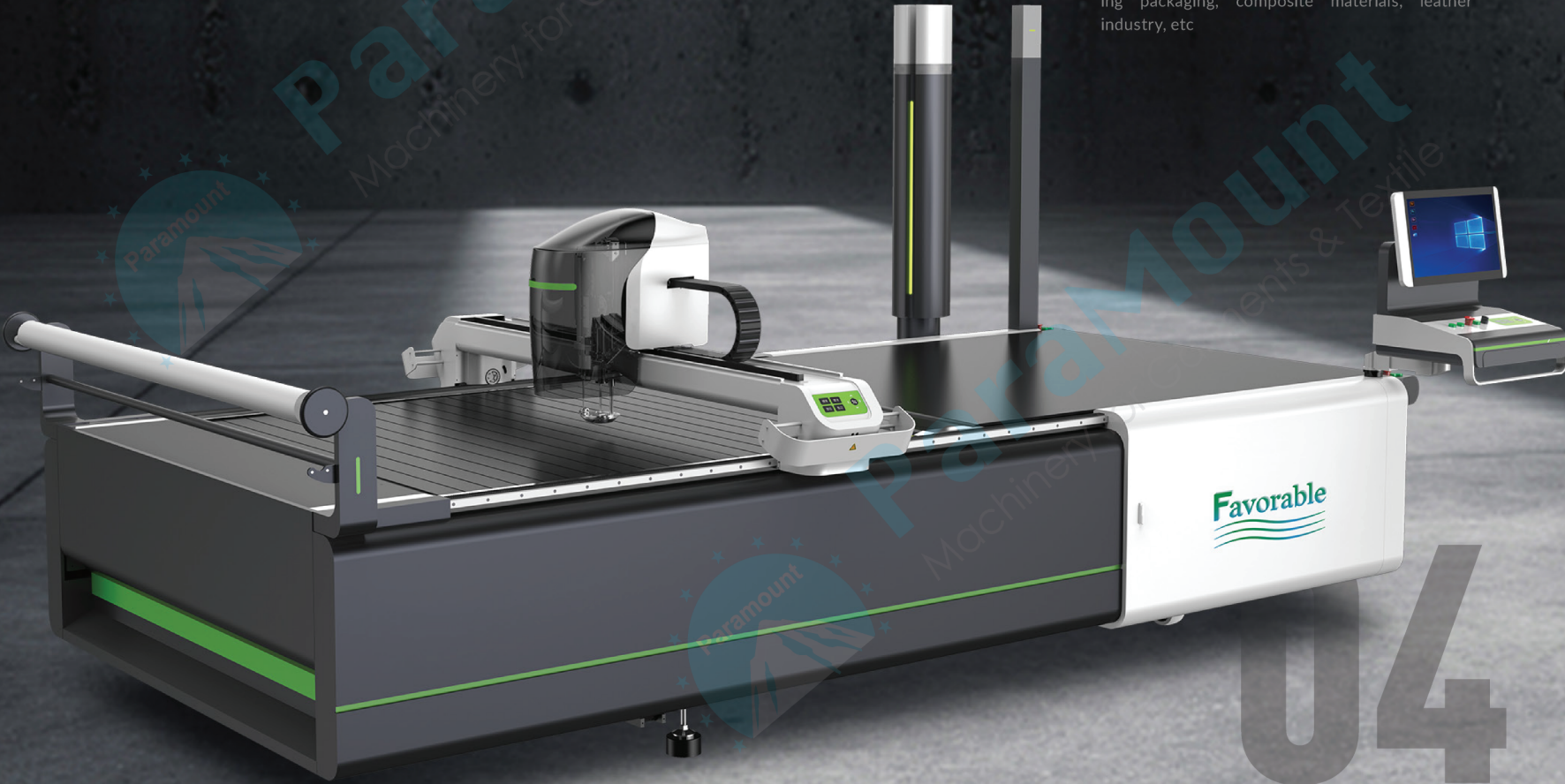| ITEM / MODEL	FE90	FE60	FC80	FC50
Dynamic Cutter Compensation Technology	●	●	○	○
Dynamic Cutting Technology	●	●	○	○
Efficient Intelligent Cutting Software Package	●	●	○	○
High-performance integrated bed	●	●	-	-
Leading one-piece beds	-	-	●	●
Single heated needle	○	○	○	○
Single needle (unheated)	○	○	○	○
Single Drill	○	○	○	○
Double drills	-	-	-	-
Heightened stand	○	○	○	○
Cutting knife cooling system	○	○	○	○
Perforation waste recycling system	-	-	-	-
Intelligent report	○	○	○	○
Multi-station cutting system	○	○	○	○

PRODUCT PARAMETERS

Parameter				
Cutting height (after vacuum compression) mm	90	60	80	50
Door width mm	1800/2000/2200	1800/2000/2200	1800/2000/2200	1800/2000/2200
Cutting knife specification mm	2.4*8.5	2*7	2.4*8.5	2*7
Cutting speed (Max.) m/min	80	80	50	50
Maximum acceleration m/s	8	8	5	5
Maximum speed (r/min)	5000	5000	3600	3600
Average power consumption kw	12	12	10	10
Negative vacuum pressure (Max.) Kpa	23	23	21	21
Size of cutting machine mm	L5180*(W3035.5/3238.5/3441.5)*H2554			
Weight of cutting machine	3600-4 200			
Table height mm	800-900			
Voltage/Frequency/hz	3P/N/PE, AC380V, 50 /60HZ			
Total power kw	26/28			
Air flow (nl/min)	160			
Compressed air - air pressure Mpa	0.7			
CAD compatible	Cutfile、RS2 74D、PLA、PLX、ISO 6983			

Standard ●   Optional ○   Not available -

AUTOMOTIVE&INDUSTRIAL MANUFACTURING

ITEM / MODEL	FS9	FS6	FC8
Dynamic Cutter Compensation Technology	●	●	●
Dynamic Cutting Technology	●	●	●
Intelligent Cutting Software Package	●	●	●
One-piece bed Pro.	●	●	-
Leading one-piece beds	-	-	●
Single heated needle	-	-	-
Single needle (unheated)	-	-	-
Single Drill	-	-	-
Double drills	●	●	●
Heightened stand	○	○	○
Cutting knife cooling system	●	●	●
Perforation waste recycling system	○	○	○
Intelligent report	●	●	●
Multi-station cutting system	-	-	-

PRODUCT PARAMETERS

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Cutting knife specification mm	2.4*8.5	2*7	2.4*8.5
Cutting speed (Max.) m/min	80	80	50
Maximum acceleration m/s	8	8	5
Maximum speed (r/min)	6000	6000	3600
Average power consumption kw	12	12	10
Negative vacuum pressure (Max.) Kpa	25	25	23
Size of cutting machine mm	L5180*(W3035.5/3238.5/3441.5)*H2554		
Weight of cutting machine kg	3600-4 200		
Table height mm	800-900		
Voltage/Frequency/hz	3P/N/PE, AC380V, 50 /60HZ		
Total power kw	28/30		
Air flow (nl/min)	160		
Compressed air - air pressure Mpa	0.7		
CAD compatible	Cutfile、RS2 74D、PLA、PLX、ISO 6983		

Standard ●   Optional ○   Not available -

HOME FURNISHINGS

ITEM / MODEL	MODEL DESCRIPTION	
	FS900	FC800X
Dynamic Cutter Compensation Technology	☐	☐
Dynamic Cutting Technology		☐
Intelligent Cutting Software Package	☐	☐
One-piece bed Pro.	☐	☐
Leading one-piece beds	-	☐
Single heated needle	☐	☐
Single needle (unheated)	☐	☐
Single Drill	☐	☐
Double drills	☐	☐
Heightened stand	☐	☐
Cutting knife cooling system	☐	☐
Perforation waste recycling system	☐	☐
Intelligent report	☐	☐
Multi-station cutting system	☐	☐

PRODUCT PARAMETERS		
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Maximum speed (r/min)	6000	3600
Average power consumption kw	12	10
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Compressed air - air pressure Mpa	0.7	
CAD compatible	Cutfile、RS2 74D、PLA、PLX、ISO 6983	

☐ 标配/Standard   ☐ 选配/Optional   - 无此配置/Not available

QUALITY SUPPLIERS

SMC   THK The Mark of Linear Motion   LAPP One company. One name. Worldwide.   Schneider Electric   Danfoss

PHOENIX CONTACT   SEW EURODRIVE   SICK   igus   Parker

FESTO   EATON   AVENTICS   MW 明纬 MEAN WELL   INA

SKF   SIEMENS 西门子   WAGO   NSK   Desoutter