



**JUKI**

**JUKI CORPORATION**

Date: Tokyo, July 31, 2009

**Juki Corporation will be releasing the "Exceed" Series, an advanced line of mid-range computer-controlled household sewing machines integrating technologies and functions derived from JUKI's industrial sewing machines.**



Come this Spring, Juki Corporation (President: Kazuyuki Nakamura) will be releasing the Exceed Series, an advanced line of mid-range computer-controlled household sewing machines integrating technologies and functions derived from JUKI's industrial sewing machines. The new models will debut in April (three models for Japan) and May (three models for overseas markets).

The Exceed Series models were developed through a fundamental review of the core "sewing" functions based on the market-proven technologies used in JUKI's industrial sewing machines, the industry leader in international markets. The Exceed Series adopts a BOX feed mechanism for two purposes: first, to make "straight seams" even straighter and more beautiful in appearance"; second, to enable the "pattern sewing of finish patterns identical in shape regardless of the material thickness (from light- to heavy-weight)." The new feed mechanism smoothly feeds a broader range of materials while preventing stitch gathering and slippage between plies during the sewing of light- and heavy-weight materials. Better still, the feed dog and presser foot mechanisms have been optimized for dramatically increased feed efficiency. The Exceed Series models deliver the finest seam quality and sewing performance among all mid-range computer-controlled household sewing machines on the market.

The sewing area has been designed with a focus not only on width, but also on an increased height for a wider sewing space to help the user handle materials more easily.

Quilting operations with sewing machines are catching on in households all over the world. The Exceed Series is also suitable for quilting, with its ease of use and differentiated functions as a higher-grade lineup of machines in the mid-range market.

As a producer of household sewing machines, JUKI has made life easier for customers by developing advanced "sewing technologies" for the household based on its industrial technologies and mechanisms. Foremost among them are the world's first automatic thread tension control mechanism and a full-automatic needle threading mechanism. The new Exceed Series has also been developed with features and specifications proposed by quilting class instructors. Through this development approach, we proudly offer a lineup of excellent-quality user-friendly machines for both skilled sewing experts and beginners, young or old. We believe the Exceed Series will be a special favorite for needlework enthusiasts who appreciate seam quality, sewing performance, and optimum comfort of use.

## Lineup of the models on the market

Model	Hypocoristic Name
HZL-F600	Exceed Quilt & Pro Special
HZL-F400	Exceed Quilt & Pro
HZL-F300	Exceed Home Deco

### [Features of the Exceed Series]

#### 1. "BOX" feed using the technology employed in JUKI's industrial machines.

(A) The feed mechanism feeds the material with the feed dog locked in a horizontal position, thereby preventing stitch gathering and slippage between plies.

(B) The feed mechanism supports a broader range of materials, regardless of their thickness (from light-to heavy-weight).

(C) The feed mechanism promises increased sewing comfort with its straight sewing capability and smooth feed at the start of sewing.

#### 2. JUKI's unique higher-grade buttonholing mechanism incorporating a sensor system

(A) If stitches gather during sewing, the machine instantly corrects the trouble and automatically adjusts the feed without stopping.

(B) Through review of the shape of buttonholes and stitch pitches, the improved buttonholing mechanism finishes buttonholes more beautifully than ever before.

(C) The Exceed Series is the world's first household sewing machine with the "knife width adjustment" function. With this capability, the buttonhole cutting width can be changed among three different settings.

(D) Based on buttonholing mechanisms employed in the industrial sewing machines, the buttonholing mechanism for the Exceed Series comes in many different types to suit your sewing applications.

(Reference: 16 different types of buttonholing mechanisms are available for the top-end model F600JP.)

#### 3. The Exceed Series is the first lineup of household sewing machines to incorporate a foot controller with a thread trimmer identical to the one used in JUKI's industrial sewing machines. (An option for some models)

(A) Thread trimming can be performed by depressing the back part of the controller pedal.

(B) The user can control the entire sewing sequence from beginning to end simply by working the controller pedal by foot. With total foot control, the user can keep his or her eyes fixed on the needle entry point without distraction.

(C) The controller pedal is designed with a more comfortable treadle, and the operator can stop the sewing operation at the position he or she wants.

#### 4. Improved feed efficiency

(A) The feed dog and presser mechanisms are made with special materials for substantially improved feed efficiency.

(B) The Exceed Series can smoothly feed multi-layered parts of denim too heavy for conventional household sewing machines to handle.

**5. The machine has a larger sewing space with smoother, flatter table surface and longer distance from the machine arm to needle.**

- (A) The distance from the machine arm to needle is the longest among all mid-range household sewing machines.
- (B) The machine has ample space in front of the needle entry point, and behind it.
- (C) When combined with a wide table, the machine can be used for larger projects.

**6. Super-easy threading**

- (A) The simple-to-operate lever mounted at the faceplate part and new threading mechanism ensure needle threading with minimum incidence of failure.
- (B) With the lever and the mechanism, the user can quickly thread the needle single-handedly, regardless of his or her experience.

**7. The machine adopts JUKI's unique character-selecting function.**

- (A) Characters can be entered as easily as they can in the same way with the keypad of a mobile phone.

**8. Other Attractive Specifications**

- (1) Easy Bobbin Thread Winding and Quick Bobbin Preparation
- (2) Presser Foot Pressure Adjustment
- (3) Dual LED Lights (F600 only)
- (4) Various Patchwork Quilt Patterns
- (5) Random Stitches (F600 only)
- (6) Variable Needle Positions for Decorative Stitches
- (7) Memory Function
- (8) Stitch Length and Zigzag Width Adjustment Dial (F600 only)
- (9) Various Optional Parts

**<Release Date>**

September 1<sup>st</sup>, 2009

**<Numbers of Sales Plan>**

10,000 sets per year (Total numbers of 3 models)

<Specifications>

Model Name	F600	F400	F300
Motor	DC Motor		
Maximum Sewing Speed	900spm		
Minimum Sewing Speed	80spm		
Maximum Zigzag Width	7mm		
Maximum Stitch Length	5mm		
Presser Foot Pressure Adjustment	Dial Type		
Drop Feed	Standard Specification		
Auto Thread trimming	Standard Specification		
Needle Stop Position Switching System	Standard Specification		
Sewing Patterns	225 patterns 4 fonts of letter sewing	157 patterns 3 fonts of letter sewing	105 patterns 3 fonts of letter sewing
Liquid Crystal Panel	Dot Liquid Crystal		
Error Message Guide	Text (8 languages) and Pictogram Display		
Wide Table	Standard	Option	
Foot Controller	Standard		
Knee-lifting lever	Standard	Option	

<Household Sewing Machine Web Site >

[http://www.juki.co.jp/household\\_en/index.html](http://www.juki.co.jp/household_en/index.html)

**Contact information for inquiries about the release**

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