

# RFJA30

## AIR JET LOOM

The RFJA high efficiency energy saving air jet loom series is suitable for the production of clothing materials, home textiles, yarn dyed fabrics and some chemical fabrics where the yarn count is from 5-100. The weight of the fabric is about 40-400 grams/m<sup>2</sup>.

### Technical parameters

#### Reed width (cm)

Nominal reed width:	150, 170, 190, 210, 230, 260, 280, 340, 360cm
Effective reed width:	0~60cm subtracted from the nominal reed width (150~260cm); 0~80cm subtracted from the nominal reed width (more than 280cm)

#### Weaving capacity

Spun yarn:	Ne100~Ne2.5
Filament:	22dtex~1350dtex
Weft selection:	2, 4, 6 colors with the function of continuous extension



## Features:

1. Remarkable high-speed performance and low vibration	<p>The air jet loom features a reasonable design to greatly reduce the vibration and noise. The warp passes the heald wire and the pathway from the heald wire eye to the cloth-fell from the top surface of the backrest. The stability of the beating-up balance system has been adjusted.</p>
2. New rack and high adaptability	<p>1) Because of the use of a rigid rack, warp beam gear with large diameter and let off mechanism driven by the main shaft and is embedded in the lubrication oil, the air jet loom achieves an improved high-speed production. It is also more sensitive and can satisfy the weaving requirements for high density fabrics.</p> <p>2) The connection of the rack and beam side plates is reasonable; thus the anti-vibration performance and reliability of the loom are improved. This can ensure the high speed and low noise during the loom operation.</p>
3. Quick change warp beam and quick-change cloth take-up unit	<p>The RFRL40 rapier loom can be equipped with a quick-change warp beam system to reduce the beam changing time and improve the weaving efficiency.</p>
4. Weaving guide	<p>1) The electronic control system has pre-stored various initial setup parameters for a number of fabrics. This set up can be automatically loaded and run, so that various projects are specific and simple.</p> <p>2) This system carries out adding, modification and storage of the setup so that the setup is more adaptable to the practical weaving environment of the customers.</p>
5. Centralized networking	<p>This air jet loom has an excellent networking performance, meaning it can achieve online monitoring of the running condition, efficiency and yield, as well as other parameters.</p>
6. Take up mechanism	<p>1) The take up mechanism is an electronic take up mechanism which can be combined with the electronic let off system. It can also prevent fabric flaws caused by machine stop via accurate normal and reverse turning of the motor.</p> <p>2) By using a computer-controlled AC servo motor, the motor achieves synchronous loom spinning in order to control the beating up density.</p>
7. Positive let off system	<p>1) In order to make the loom more suitable for high-speed weaving, the let off mechanism is installed at the outer side of the complete loom. Adjustment of the let off eccentric gear can be quite simple.</p> <p>2) The let off system uses a standard double back rest configuration, ensuring the warp tension is constant during the change from a full warp beam to an empty warp beam. This makes the loom suitable for weaving different heavy or light fabrics.</p>

### 8. Maneuverability

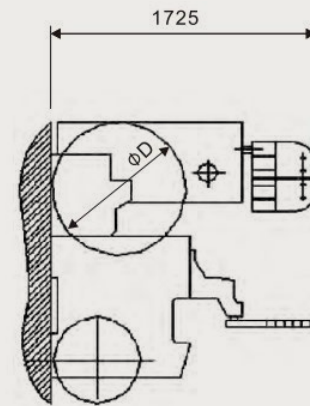
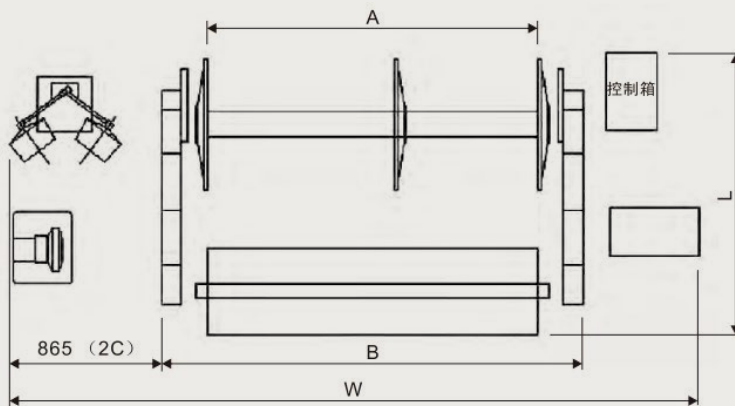
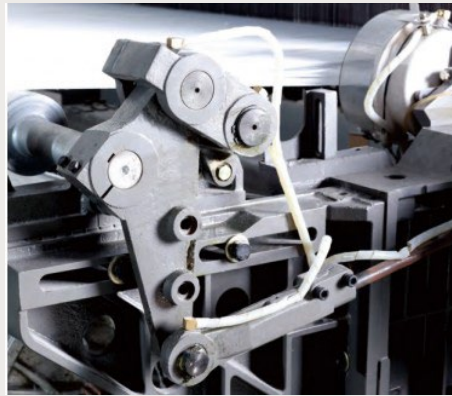
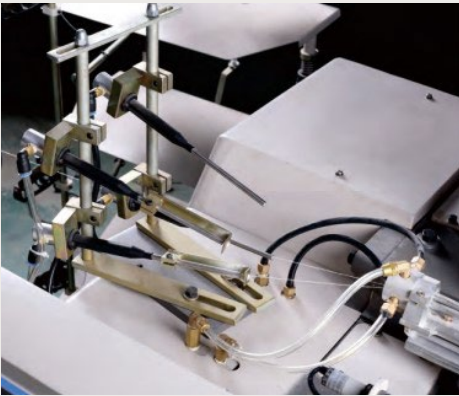
The needle reduces the rack height without changing the packaging capacity, making it convenient for operators to use.

### 9. Frequency control

By using frequency converter control, the loom operates at the required speed without changing the pulley when required for speed reduction.

### 10. Stable cloth-fell

This air jet loom uses an inclined upper temple with a larger angle of inclination and guide rod near the cloth-fell, so that the fabrics will have a stable cloth fell performance.



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