

May, 2023

TSUDAKOMA Corp.

### 1. Exhibition theme

## Smart Ecology ~ Ecology and Economy in Harmony ~

TSUDAKOMA Corp. will exhibit at ITMA 2023 to be held from 8 to 14 June 2023 at Fiera Milano Rho in Italy. (Hall 6-A301)

The ZAX001neo Air Jet Loom has been well received since the start of sales in 2021. Come and experience our ZAX001neo, which further evolves our long-standing pursuit of “Smart Ecology ~Ecology and Economy in Harmony~.”

TSUDAKOMA will continue to be with our customers. To realize a sustainable world and the textile machinery that supports the future, TSUDAKOMA will provide products that satisfy our customers for all possibilities.

We invite you to show the challenges of our next-generation air jet looms in a new field.

### 2. Exhibits

#### 1) Pursuit of energy saving

##### ZAX001neo Air Jet Loom



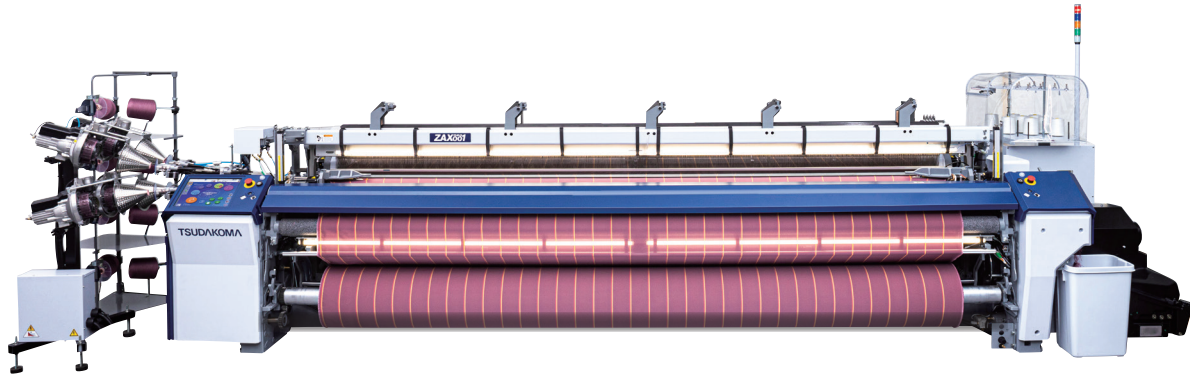
With the Neo Weft Insertion System installed as standard on the ZAX001neo, we designed new sub-nozzles. Improving the position of these sub-nozzles made it possible to save air and reduce pressure even in high-speed operation. This results in high woven quality for delicate lining fabrics, while achieving 35% reduction in air consumption and 20% reduction in air pressure compared to the existing model.

Direct gear drive for the driving section supports high quality without stopmarks. The driving motor adopts the new high-efficiency IPM motor exclusively developed for the ZAX001neo. This new IPM motor consumes less power than the existing induction motor, but accomplishes high speed operation.

Here is the ideal form of pursuing energy saving without sacrificing the performance of the loom and compressor.

## 2) Challenge for a new field

### ZAX001neo Air Jet Loom



To break through the stereotype of “wide technical fabric (awning fabric) woven by rapier looms,” TSUDAKOMA’s new challenge bears fruit by weaving this fabric on air jet looms with improved weft insertion performance.

The combination of the ZAX001neo’s robust TAP Tsudakoma Advanced Platform, high-efficiency IPM motor, and newly developed sub-nozzles with high weft-feeding force, enables powerful weft insertion and high-speed stable operation for thick yarns and ultra-wide fabrics.

Cam beating can keep the weft insertion timing longer than crank beating, minimizing the air blow of each sub-nozzle and contributing to air saving and low pressure.

The ZAX001neo is an air jet loom that fully incorporates all of TSUDAKOMA’s accumulated weaving knowledge, and is the embodiment of the most suitable design in terms of productivity, air saving, high quality, and environmental friendliness. For the future of weaving to enrich people’s lives, TSUDAKOMA’s insatiable challenge continues.

## **3. Exhibit outline**

### **1) ZAX001neo Air Jet Loom**

Reed space: 190 cm

Shedding: Positive cam

Fabric: Lining fabrics

### **2) ZAX001neo Air Jet Loom**

Reed space: 390 cm

Shedding: Positive cam

Fabric: Awning fabrics