

OPTIMIZE YOUR
PRODUCTION

D/1434-35, NEW BOMBAY MARKET,
UMARWADA, SURAT, GUJARAT, INDIA - 395010

✉ dolphintechno@gmail.com

☎ 97 2424 6066 | 97 2424 6665 | 97 2424 6666 | 99241 46460

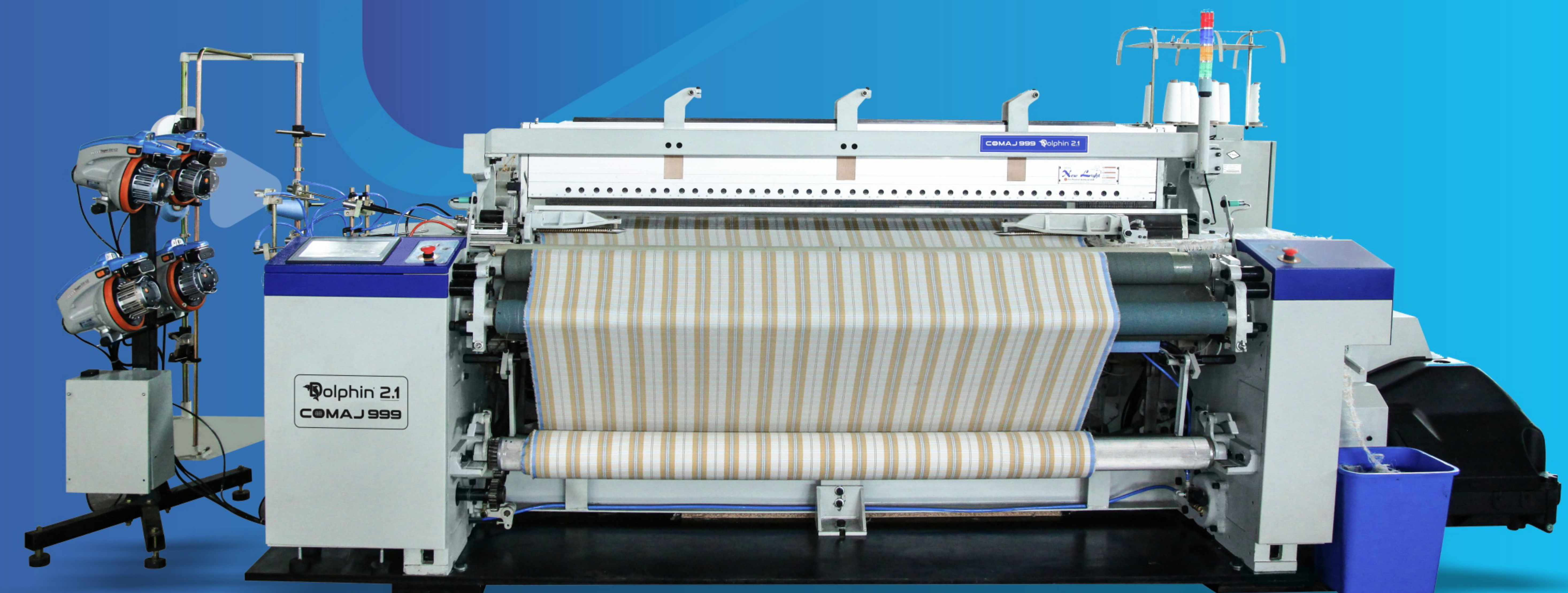


Efficient Textile Machines

EMBROIDERY

RAPIER
JACQUARD

AIRJET



COMAJ 999

High Speed Airjet Machine

Excellent High Speed and Low Vibration Airjet are meant for high speeds & **Comaj 999** is a perfect blend of seamless warp shedding, well balanced beating system with efficient warp insertion system supported with a strong vibration free bodt structure

The **Comaj 999** can run with all kinds of shedding motion. Even while weaving fabrics conventionally woven on rapier looms like those using different kinds and thicknesses of wefts, worsted fabric, and technical fabrics woven at high speed, the **Comaj 999** maintains superior quality.

Harmony with the environment In addition to low vibration and energy savings **Comaj 999** aims to harmonize with the environment. We continue investigating noise and vibration reductions, and promote practical applications.

HIGH SPEED WEFT INSERTION

Proven benefit based on actual operation. A 4-link beating motion that works excellently at ultra-high speed is used for narrow looms. A 6-link beating motion with more time allowance for weft insertion is used for wider looms, thus achieving more stable weft insertion.

INDEPENDENT SUB-NOZZLE TIMING CONTROL BY COLOR

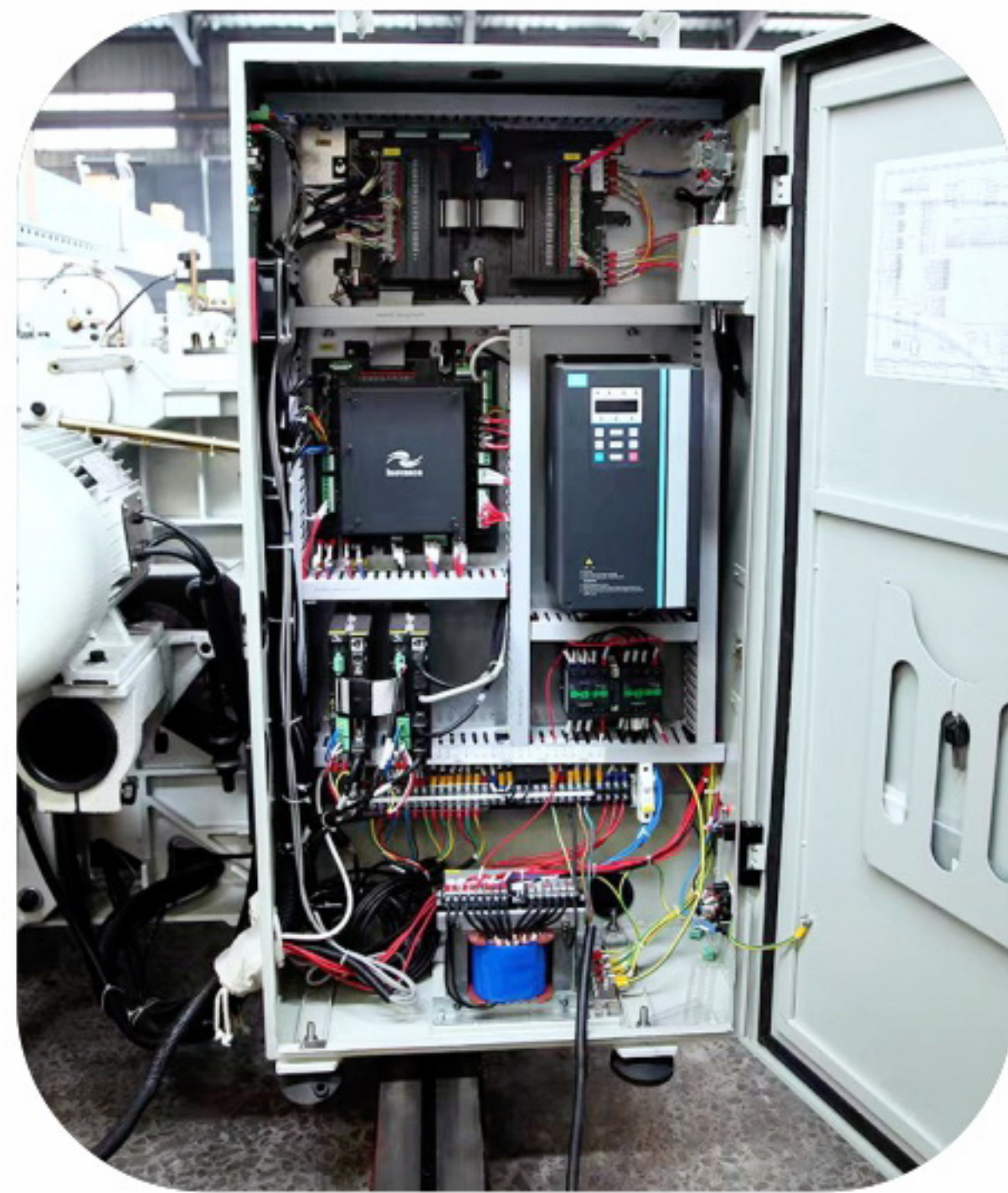
In addition to the main nozzle timings, setting different jet timings of the sub- nozzles by color according to weft yarn kind when using weft of different kind or different thickness contributes to stable performance, improvement in fabric quality, and energy savings.

DYNAMIC BALANCED BEATING SYSTEM

Using CAE analysis, we designed a new robust frame structure. By employing the offset rocking shaft with less moment of inertia and a hollow reed holder, beating is well-balanced. Exciting force is prevented and about a 35% decrease of floor vibration is attained.



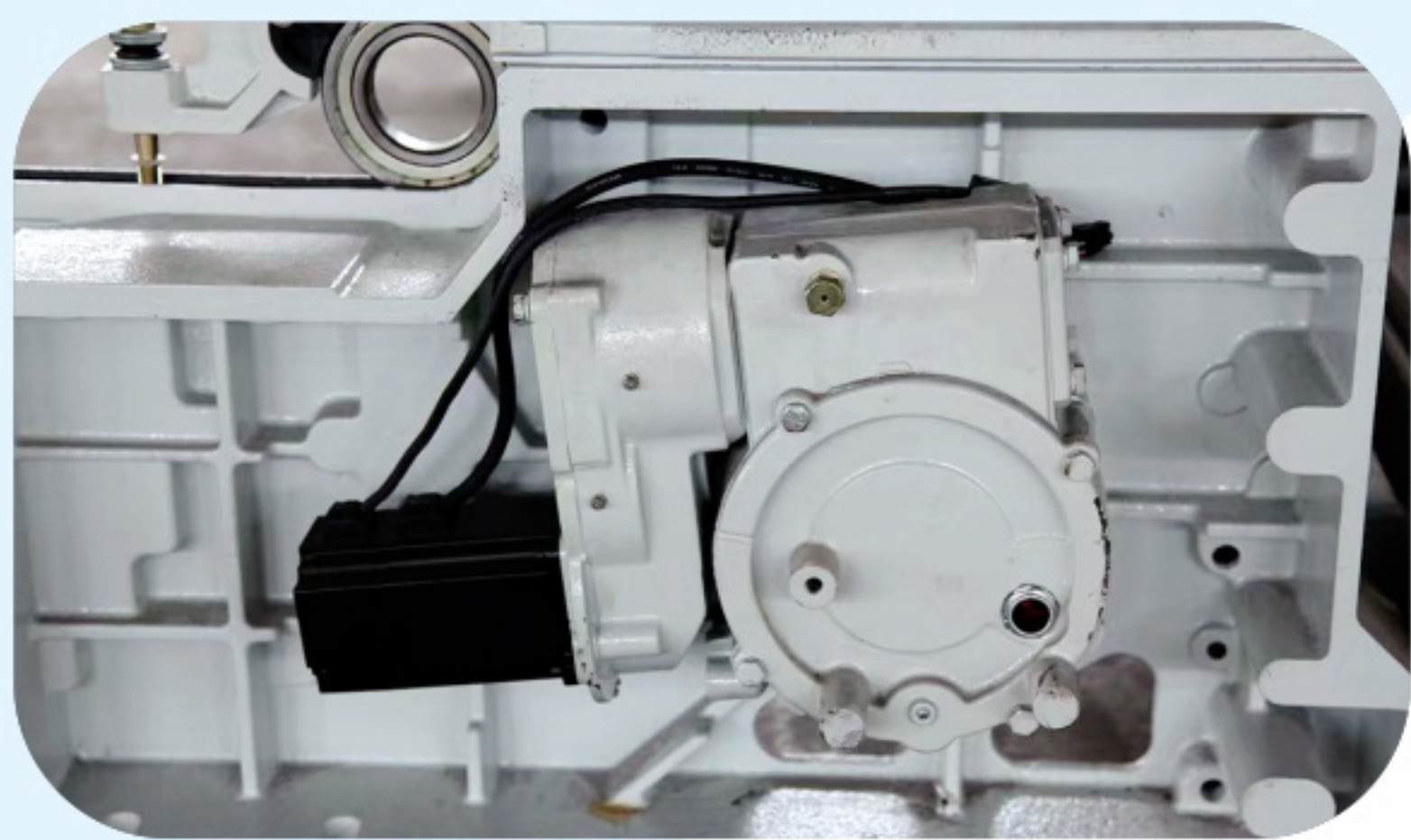
Bintian Cam
Shedding



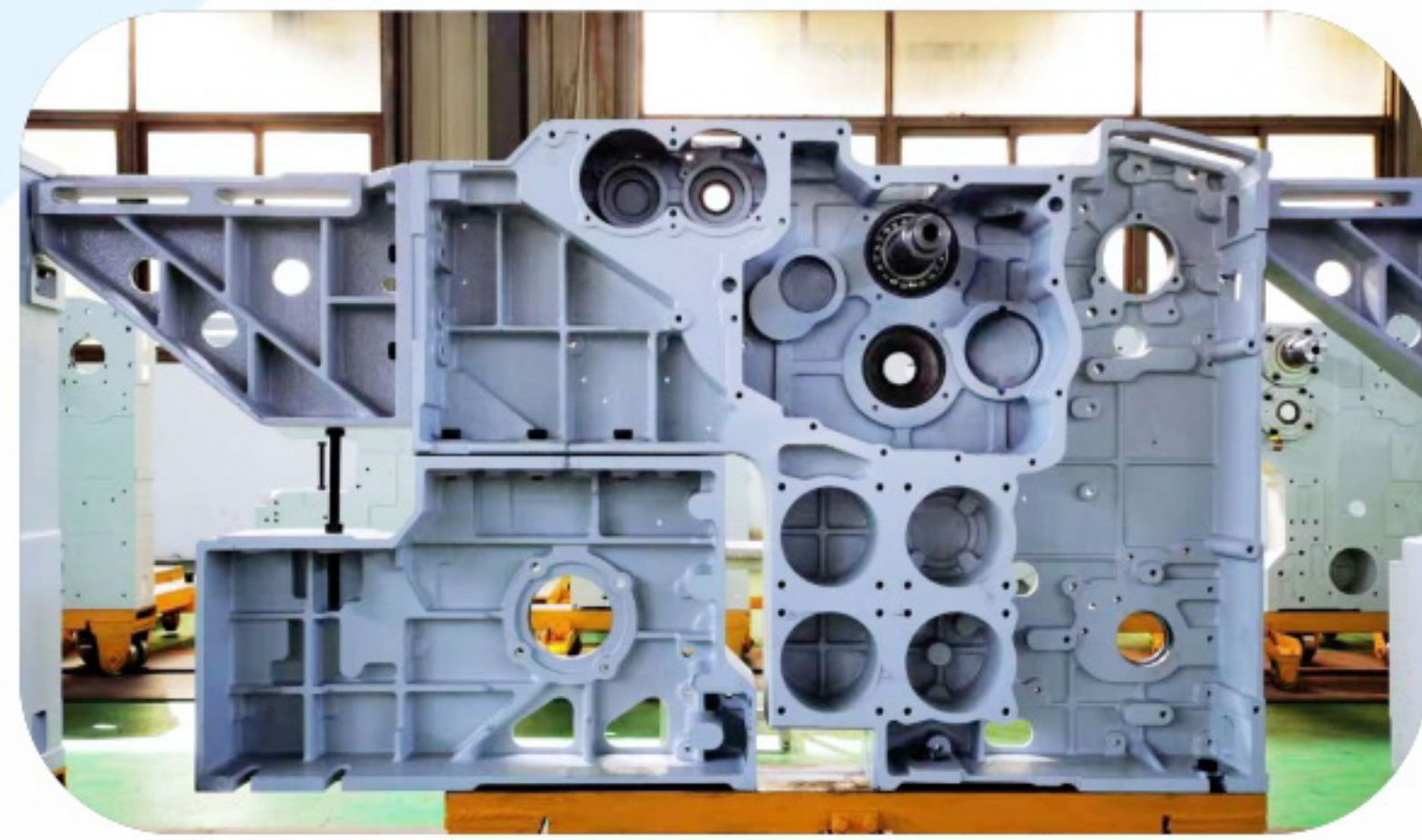
Innovance
Control Pannel



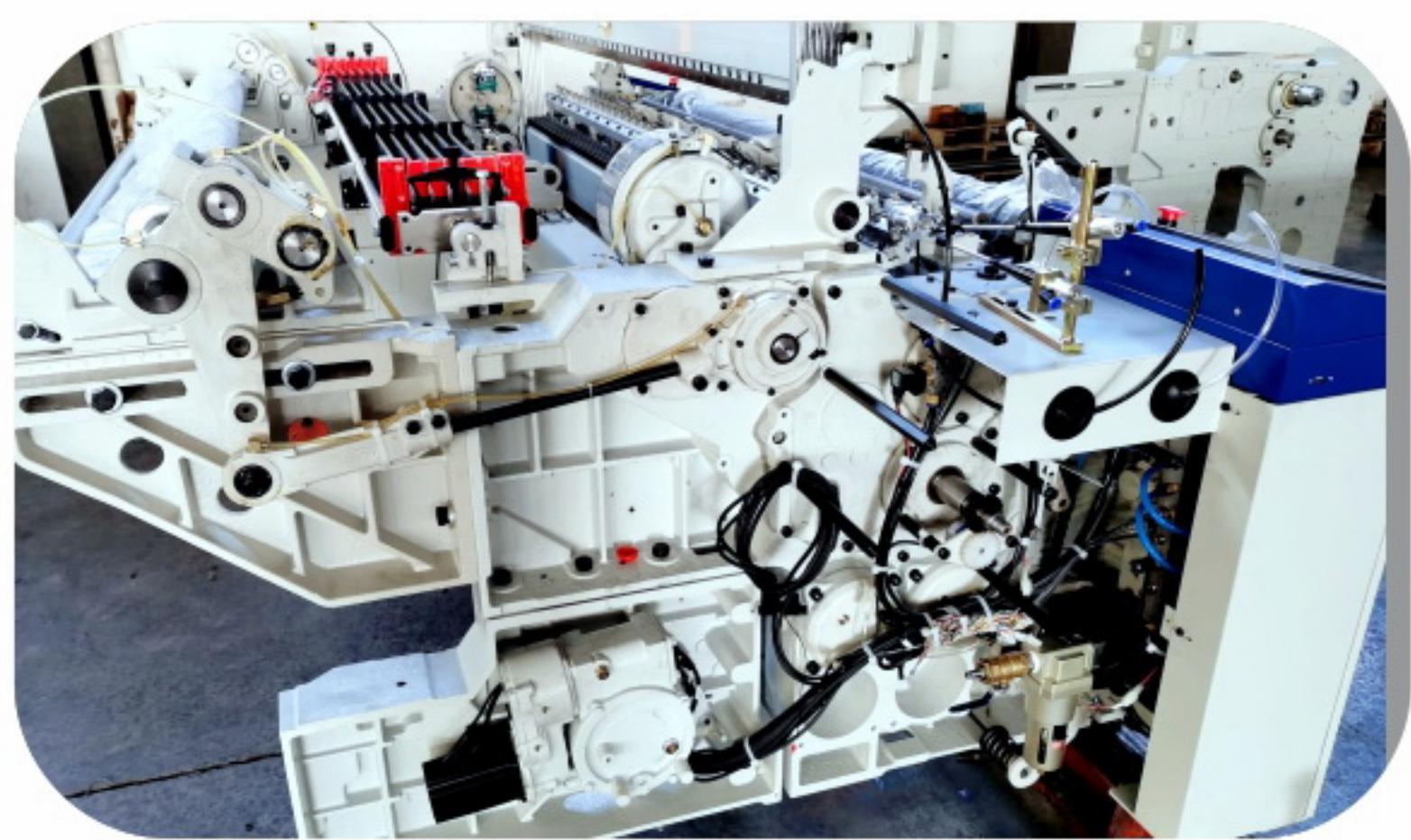
IRO
Accumulator



Electronic Take
Up System



Strong Vibration
Free Body



Independent Sub-nozzle
Timing Control By Color



Custome Factory



Customer Factory 02



Body Structure

TWIN NOZZLE

We re-engineered the loom frame height and depth for the **Comaj 999** for easier access during operation and maintenance.

For optimum maintenance and operation environment, we moved the air regulators to a higher, more accessible position. These changes drastically reduce the number of tools required. The driving elements for positive easing motion are located outside the main frame to simplify adjustment and maintenance.

SUB-NOZZLE BOOSTING SYSTEM

The sub-nozzle jetting time is increased only when the yarn supply package is replaced, when the loom restarts or when the weft arrival timing is greatly changed. This stabilizes weft insertion and keeps fabric quality high.



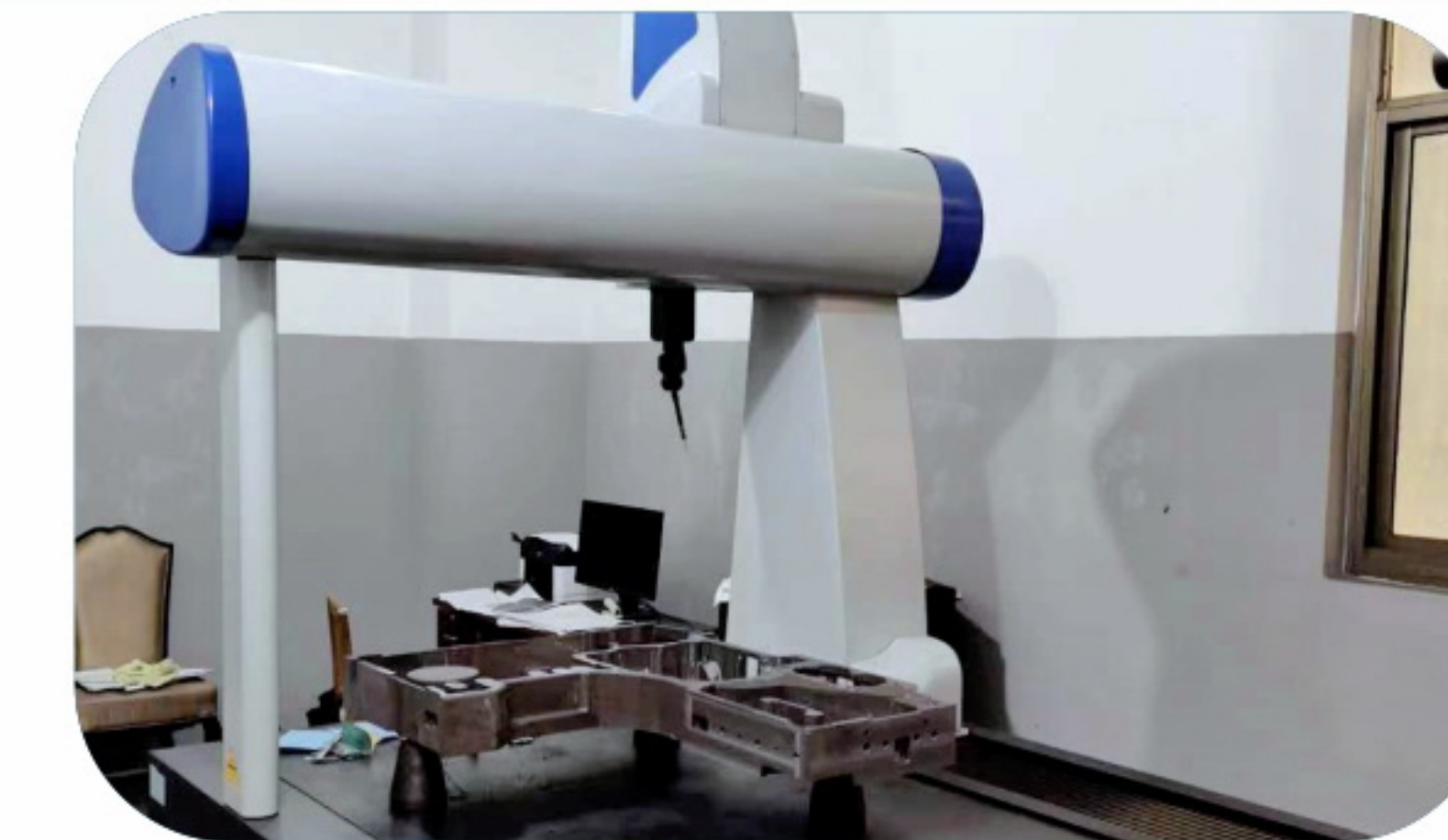
Twin Nozzle



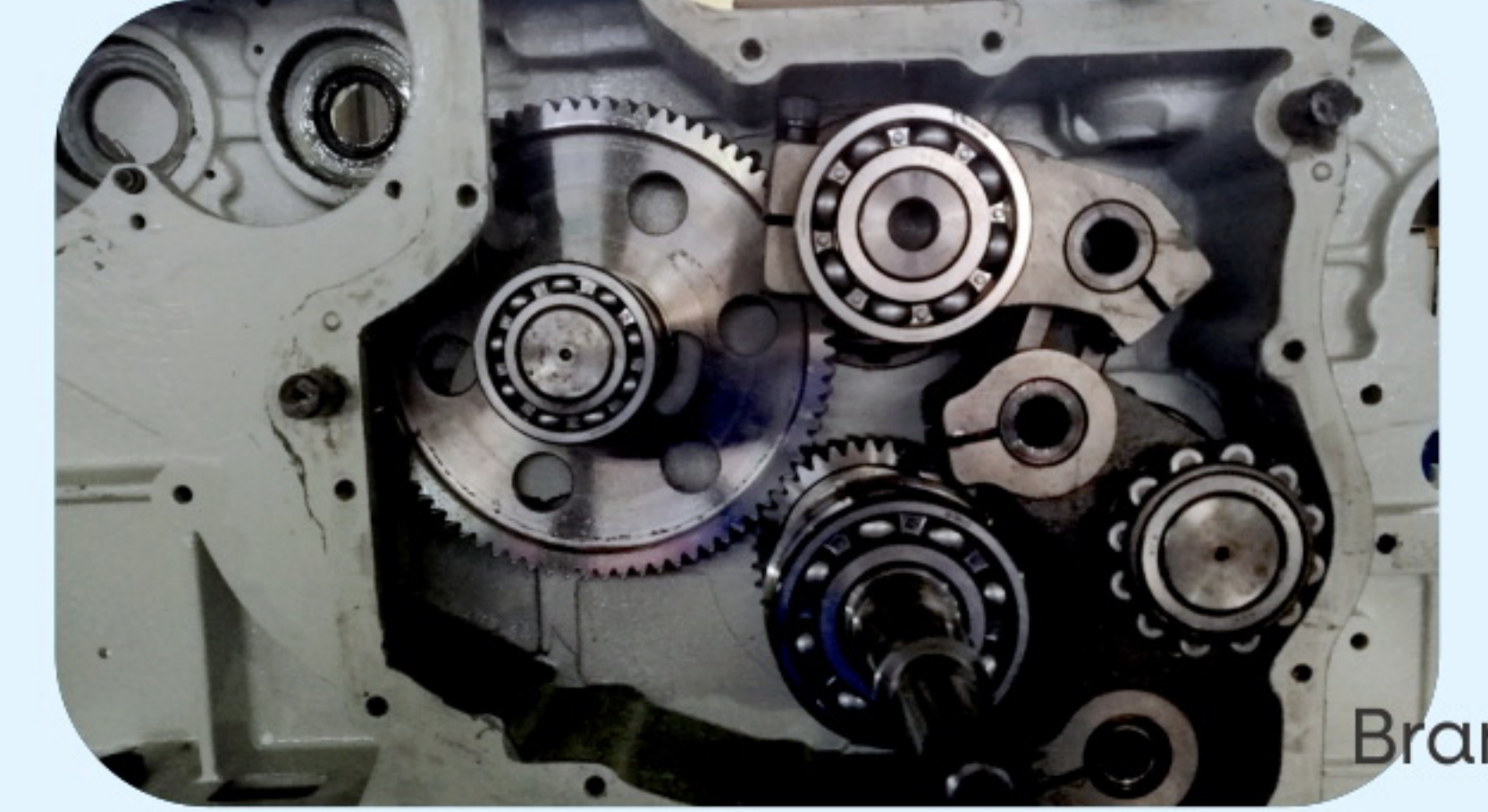
Heavy Walls



Quality Control



Quality Control



German Bearings

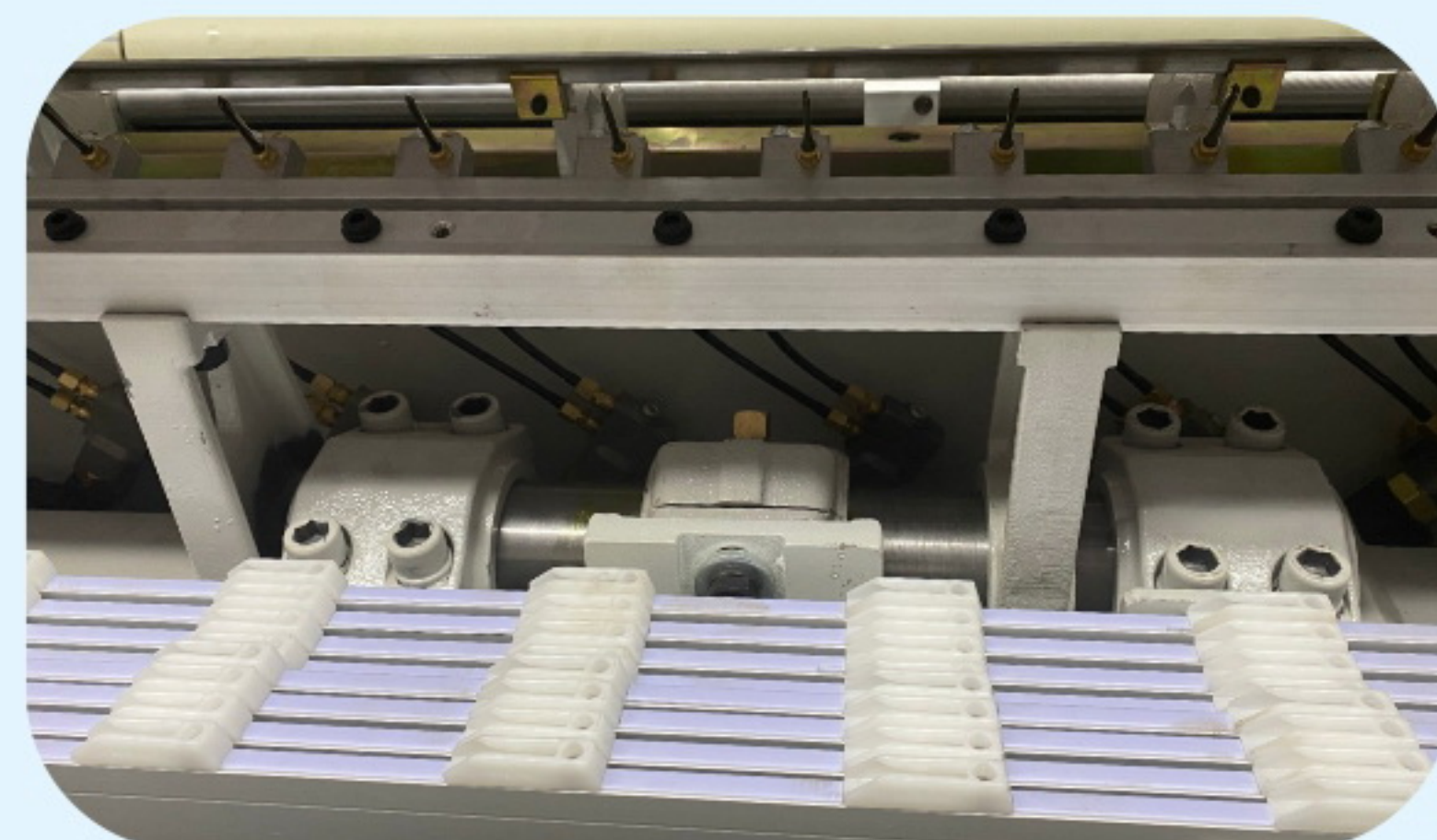


Quality Control

COMAJ 999
High Speed Airjet Machine

REDUCTION IN AIR CONSUMPTION (CFM)

"Twin Nozzle Valve" newly developed for the sub- nozzles feeds compressed air to every two sub- nozzles. This allows high response to speed that makes sharp air jetting possible and contributes to reduction in air consumption. We designed the secondary chamber of the Twin Nozzle Valve, reduced by 40% of the previous model. Thus, air consumption is reduced by about 10%.



Dynamic Balanced Beating System



Reduction In Air Consumption (CFM)



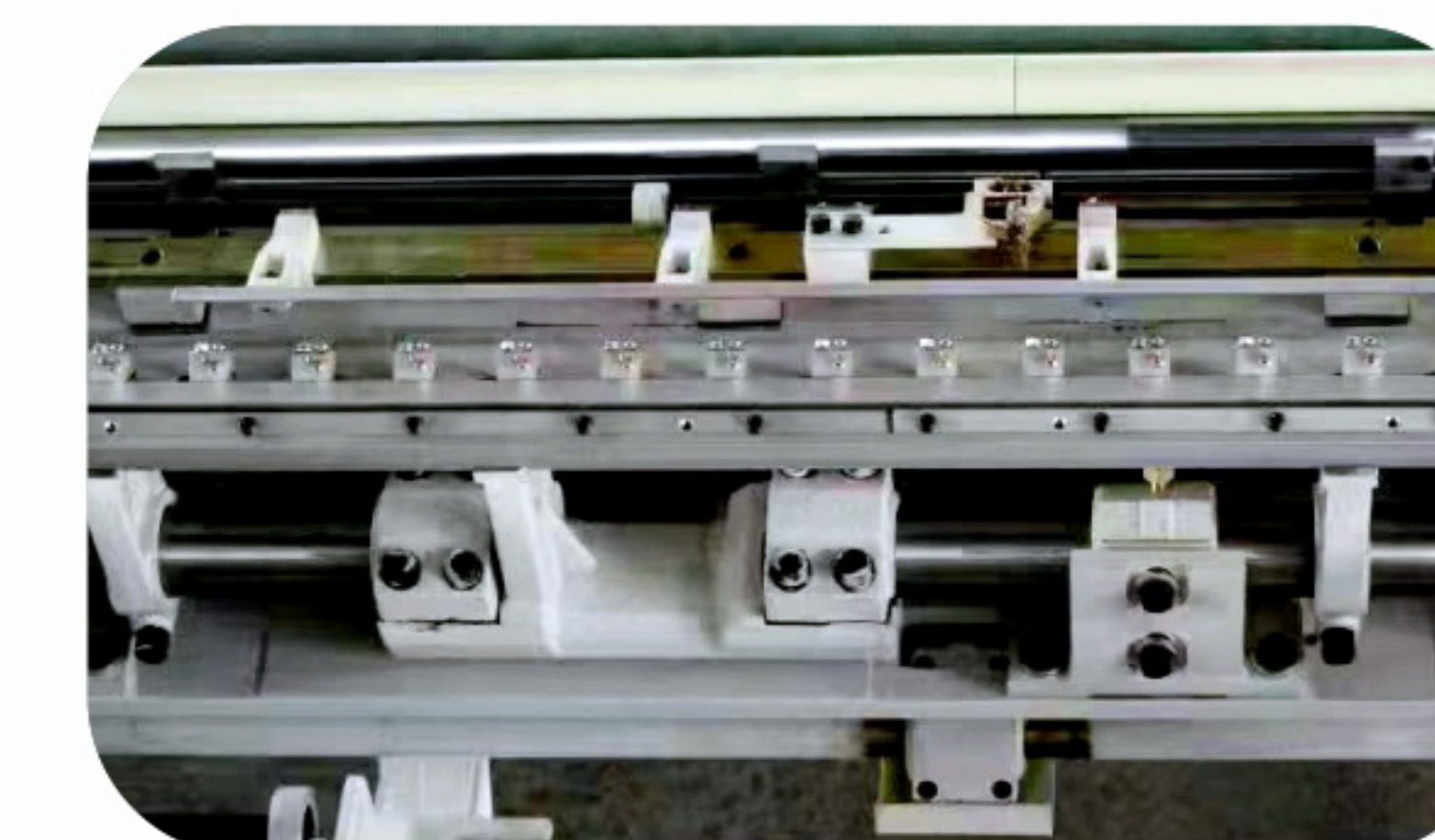
Leveling System For Installation



Dynamic Balanced Beating System



Weft Finder System



Combined Eccentric Beating Axis

ELECTRONIC TAKE-UP

The ETU Electronic Take-Up motion is now standard. Pick density can be changed through the Navi-Board without changing pick change gears. In addition, ETU can accommodate multiple pick density as well as reducing stop marks for quality fabrics.

We designed the secondary chamber of the Twin Nozzle Valve, reduced by 40% of the previous model. Thus, air consumption is reduced by about 10%.

COMAJ 999 High Speed Airjet Machine



German CNC Machine



Cam Shedding Connector



Electronic Batching Motion