

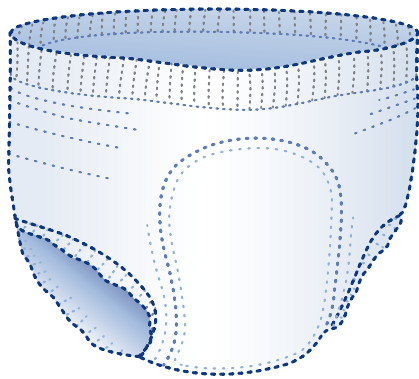


J7I-BP

BABY PANT MACHINE

Pairing innovative technology
with proven platforms.





Cutting-edge baby pant converting technology available in full metric.

The JOA® J7I-BP Baby Pant Machine utilizes the industry-leading technology from the JOA® J7I-AP machine, combining speed with flexibility for different product configurations. This platform-based solution incorporates proprietary JOA® technology that can be customized by our engineering team with features and functionality to meet your unique product and production requirements. Designed to seamlessly handle machine upgrades as technologies evolve, components can be retrofitted with minimal investment and downtime.

**MACHINE
SPEED**
UP TO 500
METERS PER MIN

**PRODUCTION
SPEED**
UP TO 1000
PRODUCTS PER MIN

**BASE
MACHINE SIZE**
34M X 11-14M X 6.8M
(L X W X H)

**BABY DIAPER
SIZES**
XS TO XXL

THESE REPRESENT BASE CONFIGURATIONS. WE CAN ENGINEER A MACHINE TO YOUR SPECIFIC REQUIREMENTS.



Reduce waste and improve production efficiencies.

The J7I-BP platform features cutting-edge technologies, including turret unwinds that automatically splice raw materials at-speed during production, and an insert attachment process that applies adhesive up to the cut edge, eliminating the need for a cover strip. In addition, our patented Single Anvil In-Line (SAIL™) side seam bonding unit breaks the correlation between machine speed and bonding strength, enabling higher production speeds and increased bond quality.

Improve quality with customized machine controls.

In-line product inspections—at full machine speed—are made possible with our proprietary Vision Control System. Integrated at key points throughout the machine process and customized to the product being manufactured, the Vision Control System automatically self-corrects the machine when product inconsistencies are detected, significantly reducing material waste and ensuring product quality throughout production.

Reduce raw material costs.

Ultrasonic bonding capabilities significantly reduce energy consumption and material costs by eliminating the need for adhesives. In addition, ultrasonic bonding results in softer fabric and better stretch by eliminating the stiffening effect from adhesives. And by using material retraction, you have the ability to use lower decitex elastics which also reduces material costs.

Machine Features

Significantly Reduce Floor Space

- Two-level machine design—Mechanical Equipment Platform (MEP)—saves space and shortens the web

Configured to Your Needs

- Flexible machine processes are custom designed to your specific requirements
- Engineered for customer-specific core design
- Integrates with customer-specified commercial hardware, including adhesives or ultrasonic bonding processes
- Experience and advice to determine the optimal product design for production efficiency

Improve Labor Efficiencies

- Auto re-feed reduces stoppages due to damaged material
- Patented auto-correction systems eliminate machine stoppages
- Vertical Reciprocating Conveyor automatically elevates material rolls to second level
- Metering function for each turret unwind enables easy machine web-up

Quality Control and Reduced Waste

- Low Roll Splice Initiation System minimizes unused material left on each roll
- Intermittent nonwoven backsheet application available
- Proprietary Vision Control System enables customized product inspections at full speed
- Patented cuff-fold correction system spots and auto-corrects open cuff folds
- Single product rejection—at speed—eliminates unnecessary waste
- Design enables shorter web paths to reduce web wrinkling and the resulting product defects

Glue-free Bonding Reduces Costs

- Ultrasonic lamination of stretch film and nonwoven for front and back panel
- Ultrasonic Elastic Entrapment eliminates need for adhesives and reduces energy consumption

Superior Production Speeds

- Turret unwinds splice raw material at full machine production speed
- Full servo technology

Operator Safety and Ease of Use

- Sliding safety guards for total access to process units
- Ergonomic, operator-friendly Human Machine Interface (HMI)
- Custom sound abatement

Fully Compliant

- Global safety and electrical compliance
- Meets CE/NFPA/OSHA compliance and regulations

Responsive Support to Reduce Downtime

- Remote assistance for real-time service
- Onsite service
- Flexible Operator and Maintenance training at start-up and available throughout the life of the machine

Optional Machine Features

Eliminate Manual Processes

- Patented pneumatic air threading technology enables operator to simply push a button to rethread a broken web
- Advanced Recipe Manager (ARM) saves product SKU details for faster product changeout

Product Customization

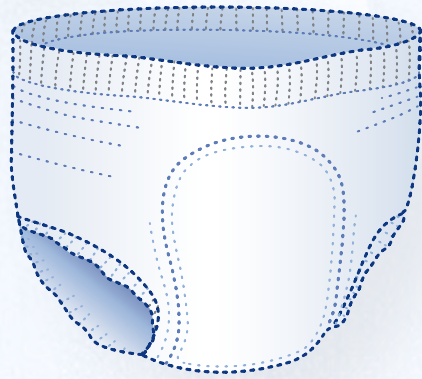
- Single product pouch wrapping
- Flexographic printing with up to four colors for topsheet or ADL
- Cut-to-register function

Data Collection

- Customer-specific production data collection
- Data trending and remote support capabilities

The background image shows a complex industrial machine, likely a textile loom or a similar manufacturing device, with various rollers, gears, and structural frames. A semi-transparent blue filter is applied over the entire image. A horizontal band of small, light-blue dots is positioned across the middle of the frame, behind the text.

Solving the industry's toughest
production challenges.



Customize your products with multiple options.

Core Forming

CORE TYPES

- Single
- 2D or 3D
- Continuous or discrete
- Shaped or straight
- Channeled

CORE APPLICATION

- Fluff or airlaid

CORE PROCESS

- Pulp-less
- High-Density Core (HDC)

CORE WRAP TYPES

- C-wrap with cover
- Single wraparound
- Sandwich wrap

CORE WRAP MATERIAL

- Tissue or nonwoven

Insert

BACKSHEET

- Intermittent nonwoven backsheet application
- Backsheet lamination
- Registered backsheet

CUFFS

- Backsheet cuff
- Three-piece topsheet construction with cuff
- Curved leg elastics and die cut
- Automatic cuff-fold correction system

DISTRIBUTION LAYER

- Automatic Acquisition Distribution Layer (ADL) orientation correction system

COMFORT FEATURES

- Wetness indicator
- Lotion application

Chassis

NONWOVEN

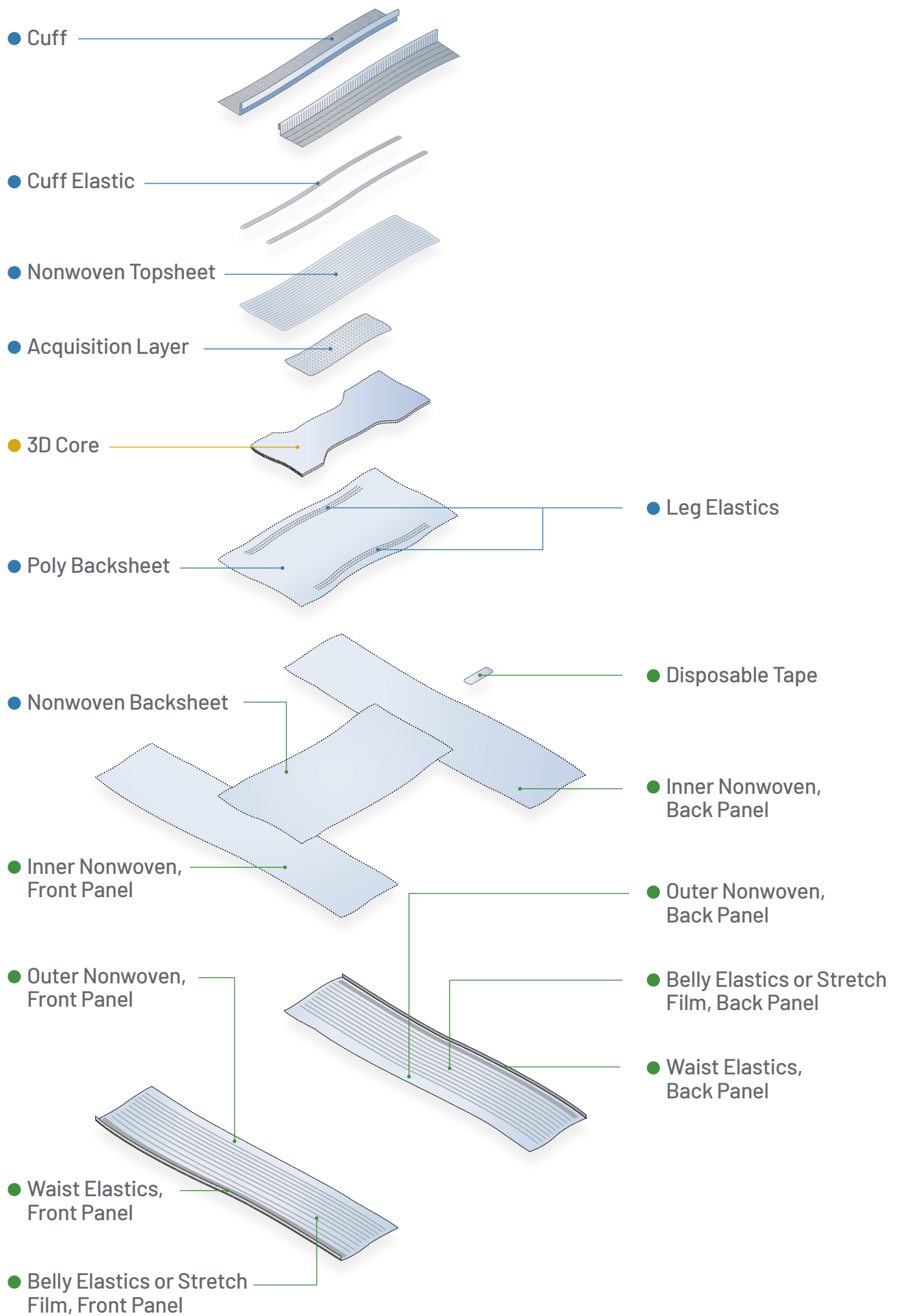
- Full outer nonwoven or split front and back panels
- Manufacture with dark materials

ELASTICS

- Ultrasonic entrapment of cuff elastics
- Waist elastics
- Parallel curved thigh elastics
- Elastic deactivation—crush or traditional cut

OTHER

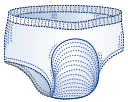
- In-line stretch film lamination
- Leg die cut
- Ultrasonic side seams
- Disposable tape
- Back tag
- Pouch wrap



JOA® Machine Platforms. Ingenious technologies. Unrivalled efficiency.

We engineer it. We build it. We test it. We guarantee it.

Our team develops platforms and modifications for a broad range of customers. With engineers dedicated to designing each platform and expertise in a wide range of manufacturing processes, we help you deliver exactly what consumers want—now and in the future.



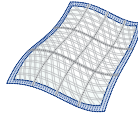
Adult
Incontinence



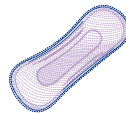
Baby
Care



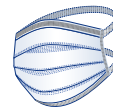
Feminine
Hygiene



Underpad



Light
Incontinence



Specialty



Upgrade
Kits

Improving the way products are produced worldwide. For nearly a century, Curt G. Joa, Inc. has provided innovative hygiene and specialty product converting platforms and technologies. At JOA, we design solutions for complex production problems based on a deep understanding of the goals each customer seeks to accomplish. Backed by proactive support, our state-of-the-art solutions are recognized for speed, quality and innovation the world over.



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SEE IT ONLINE