

## ARTICLE

# HOW DIGITAL PLATFORM VALIA POWERS THE INTELLIGENCE OF ALL-NEW FURNITURE ON DEMAND

TODAY'S FURNITURE INDUSTRY CONTINUES TO SEE DEMAND FOR CUSTOMIZED ORDERS TO SUIT CONSUMERS' INDIVIDUAL TASTES. ADOPTION OF INDUSTRY 4.0 TECHNOLOGIES AND DATA FLOW IN THE CUTTING ROOM CAN HELP FURNITURE COMPANIES OVERCOME INCREASING MANUFACTURING COMPLEXITY AND IMPROVE OPERATIONAL EFFICIENCY.

Growing consumer demand for furniture customization has made pull-mode production the most widespread production model in the industry. This is because the majority of furniture orders are prepaid and personalized with individual style, color and fabric preferences. The resulting complexity of manufacturing processes compounds the operational challenges of an industry that is already grappling with labor shortages and workforce skills gaps.

To meet this multi-pronged challenge, furniture manufacturers must produce items on-demand quickly, cost-effectively and sustainably. **The automation and intelligence of Industry 4.0 manufacturing enable the most efficient resource allocation to satisfy market demand faster and more sustainably, without reliance on key talent.**

A rapidly expanding market worth **\$87.64 billion** by 2031

Rising disposable income and improvement in living standards are fueling demand for personalized furnishings. The global customized furniture market is expected to reach USD 87.64 billion by 2031, growing at a

**CAGR of 12.05%.**

Source : [straitsresearch.com](https://www.straitsresearch.com)



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## The need for greater flexibility to optimize on-demand production

Today's consumers want functional, stylish, customizable furniture that suits their personal taste and lifestyle. To produce these pieces with the quality and turnaround time expected by the most demanding customer demographics, furniture manufacturers must contend with a high degree of complexity and continual changes in requirements.

Although growing price pressures attributable to persistent inflation and supply chain issues compound these ongoing manufacturing difficulties, workforce management is the most long-term challenge facing the furniture industry.

**The widening skills gap in furniture manufacturing is attributable to an aging workforce on the one hand, and the working conditions expected by their younger counterparts on the other.** As highly skilled workers enter retirement, the knowledge and hands-on experience gained throughout their careers disappears with them.

At any given time in the process—from manufacturing run preparation to cutting line production—furniture companies have little visibility of the advancement of individual steps in the end-to-end process. What is most lacking is flexibility—to optimize production, improve processes and accelerate lead-time.



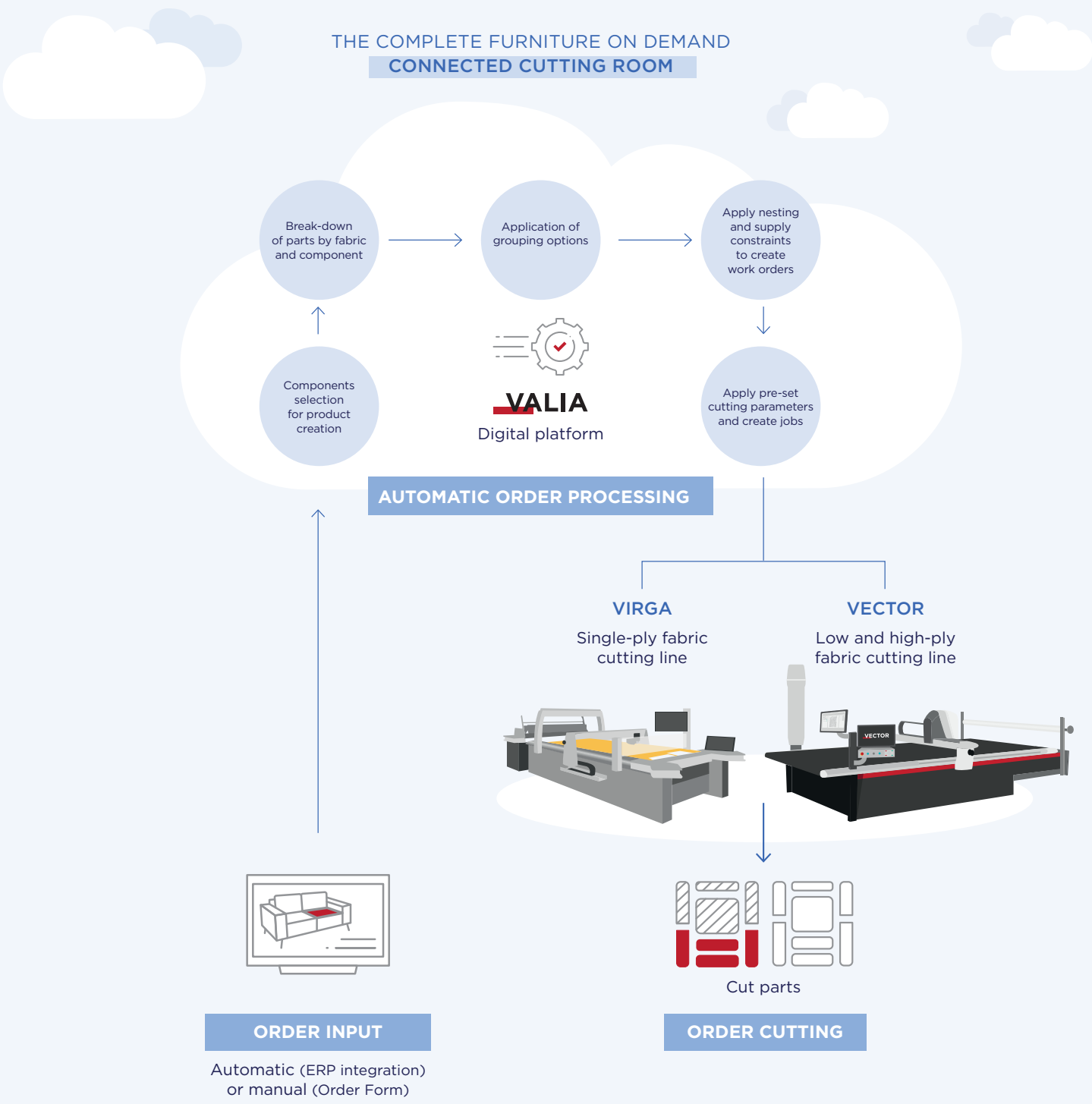
*To optimize production, improve processes and accelerate lead-time.*



# Valia, **at the heart of all-new** Furniture On Demand

To help furniture makers simplify cutting preparation and reduce key-person dependency, Lectra has launched an all-new version of cutting room solution Furniture On Demand. **At the heart of the solution lies digital platform Valia, which powers Furniture On Demand's Industry 4.0 connectivity and data-driven workflow.**

The Valia digital platform connects cutting room components and orchestrates the secure, resilient data exchange between machines to drive automated workflow. Valia's automated control and decision support enable efficient planning, cutting and optimization processes to face an unpredictable business environment with agility.







## Expanding the possibilities of cutting room performance

The automation and intelligence of Lectra's Furniture On Demand can help companies turn customization and small series into growth drivers. By harnessing the insight of order and production datasets, they can evolve toward Industry 4.0 to gain flexibility and achieve operational efficiency in the cutting room.

To run leaner, more profitable operations, manufacturers can achieve consistent quality—from order management to cut pieces. **Furniture On Demand places sustainability at the heart of cutting processes by optimizing material usage and significantly reducing scrap and waste.**

Crucially, Furniture On Demand can help close the widening skills gap, through cutting room automation that eliminates repetitive tasks with little or no added value while improving quality by uniformly applying production rules. With data-driven decision-making, companies can ensure a seamless user experience and secure dataflow throughout every step of production preparation and fabric cutting.

## Visibility and flexibility to achieve better business outcomes

**The all-new Furniture On Demand is designed to help furniture makers satisfy the highest consumer expectations by harnessing the power of production data to quickly meet changing requirements, boost profitability and maximize returns.** Furniture On Demand's cloud-driven automation—from order management to fabric cutting—optimizes material use and productivity, while digital upskilling future-proofs the workforce through user-centered workstations offering better working conditions. Companies can improve employee engagement through a more stimulating work environment that fosters stability and productivity.

Aided by the automated control and decision support of the powerful Valia online platform, furniture companies can gain the visibility and flexibility they need to achieve better business incomes.



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