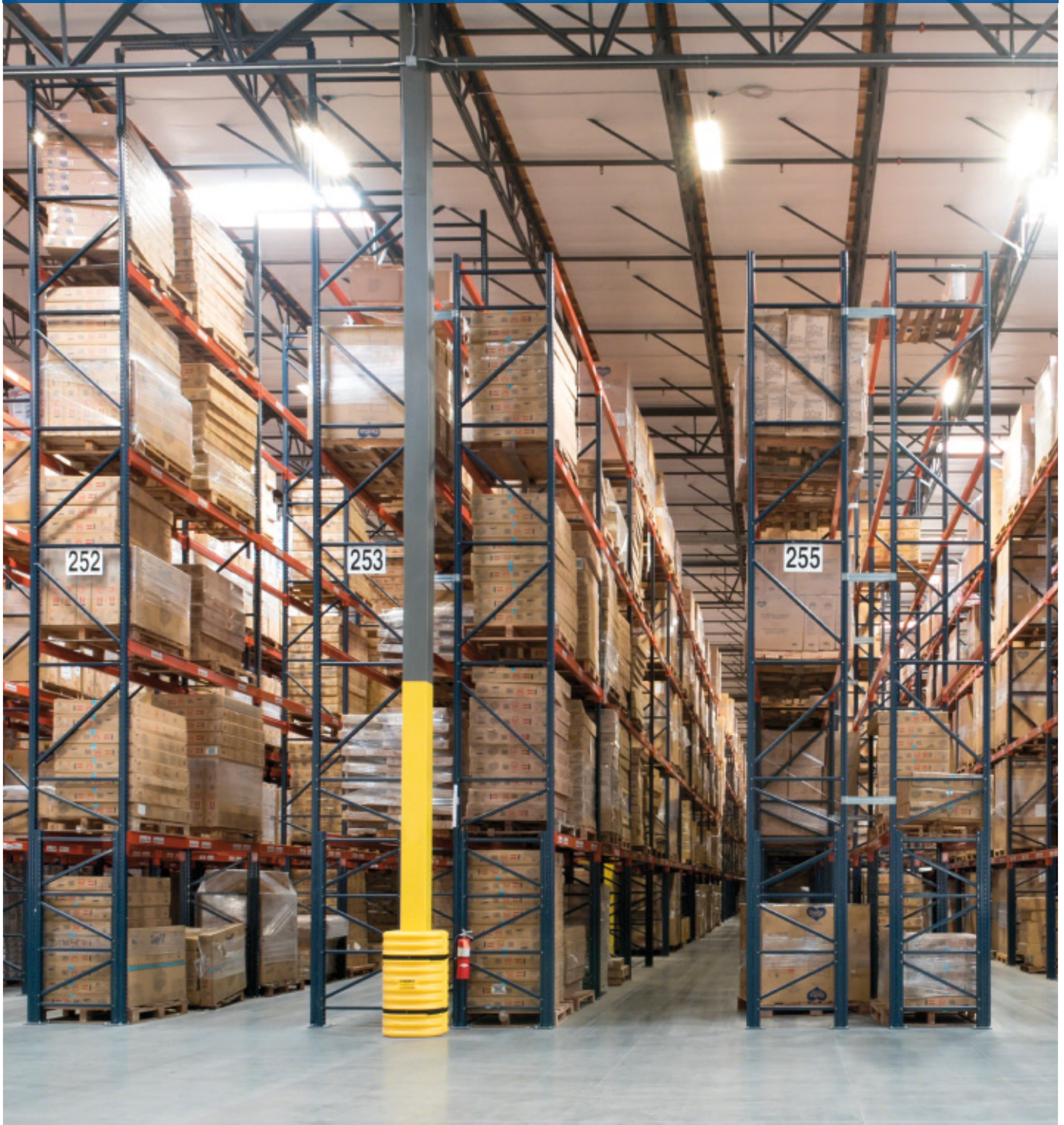




Case study: Delta Children

Interlake Mecalux pallet racking makes picking easier at Delta Children's new warehouse

Location: USA



Delta Children, one of the world's leading American crib manufacturers, equipped its Fontana (California) warehouse with pallet racking from Interlake Mecalux. With this solution, the company has boosted storage capacity and streamlined picking of its products.

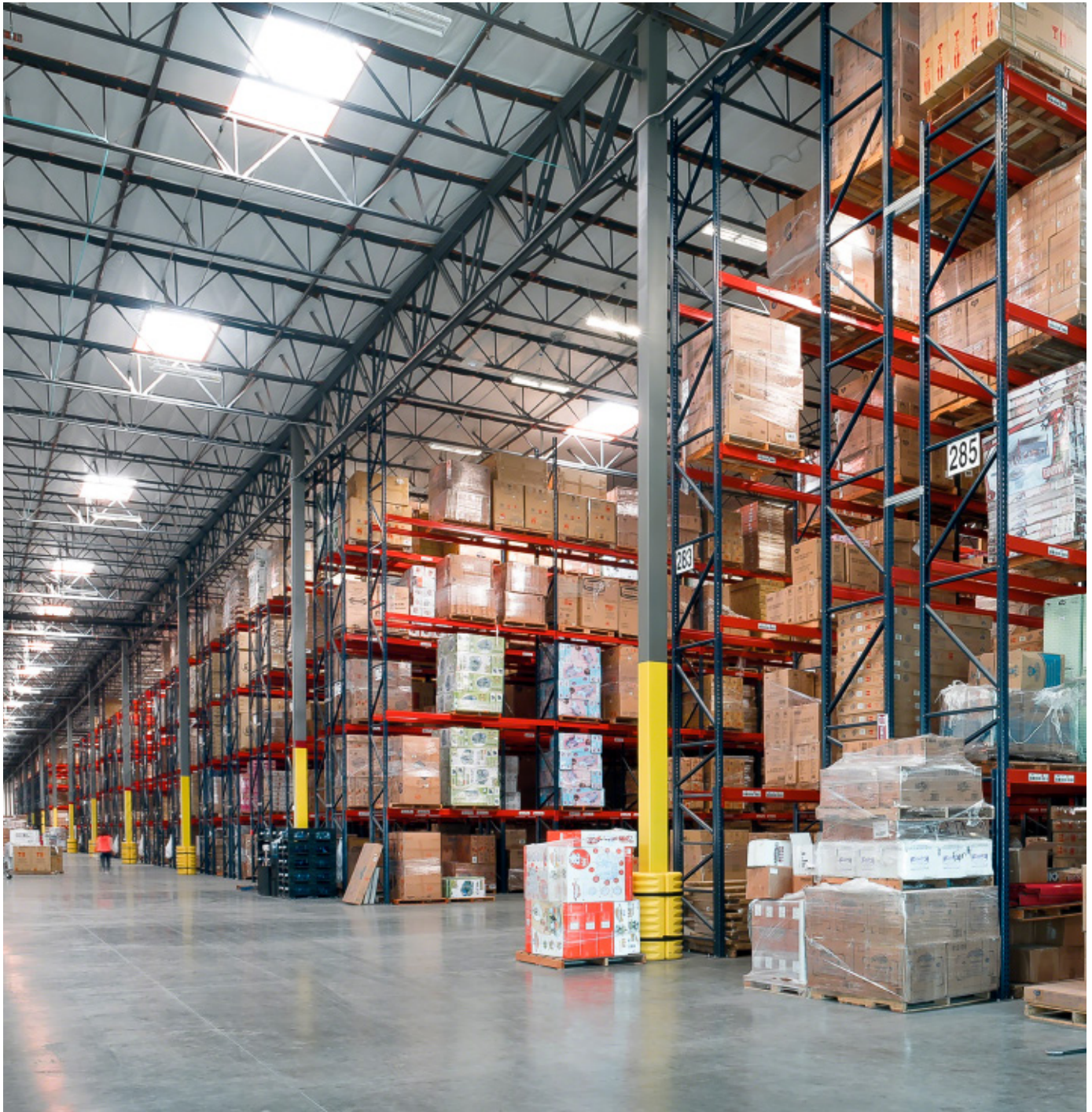
About Delta Children

Manufacturer of cribs and baby products, the business was founded in 1968 with a small retail store in Brooklyn N.Y., inspired by the new wonders of parenting.

Today, along with its own collection of nursery furniture, kids' furniture and baby gear, the company is the owner of the Simmons Kids product line.

Now in its second and third generation of family leadership, its owners uphold their father's and grandfather's vision: to offer stylish, practical children's products backed by quality and safety.





Delta Children's needs

Delta Children started out with two separate warehouses in southern California. The company outgrew the space and began to transition into a 44,100 m² warehouse in Fontana (California) to consolidate its operations.

Business demands had changed with the growth of its e-commerce portal. Because of Delta Children's strong business ties with Wal-Mart, Target and Amazon, who asked for quicker turnaround, its products had to arrive to its customers as fast as possible. The solution was to simplify picking tasks, since up till then picking was

very complicated and what was slowing operations down.

An order could include something as tiny as a baby monitor, all the way up to a 140 kg chest of drawers. Each of these items is delivered in a different way. The various shipping methods Delta Children uses in its cross-dock building include next-day air, LTLs (less-than-truckloads) and full truckload delivery.

Their customer Amazon is a perfect example. The company recently received orders for 23,000 units that had to be shipped the next morning.

Delta Children needed a way to store, pick and ship products of different sizes quickly and efficiently

They had to pick everything quickly, have the floor space for it and then batch it, label it, put it on pallets and stage it all. These operations all had to be done in 24 to 48 hours. For this reason, all operations needed to be organised by a highly efficient storage system.

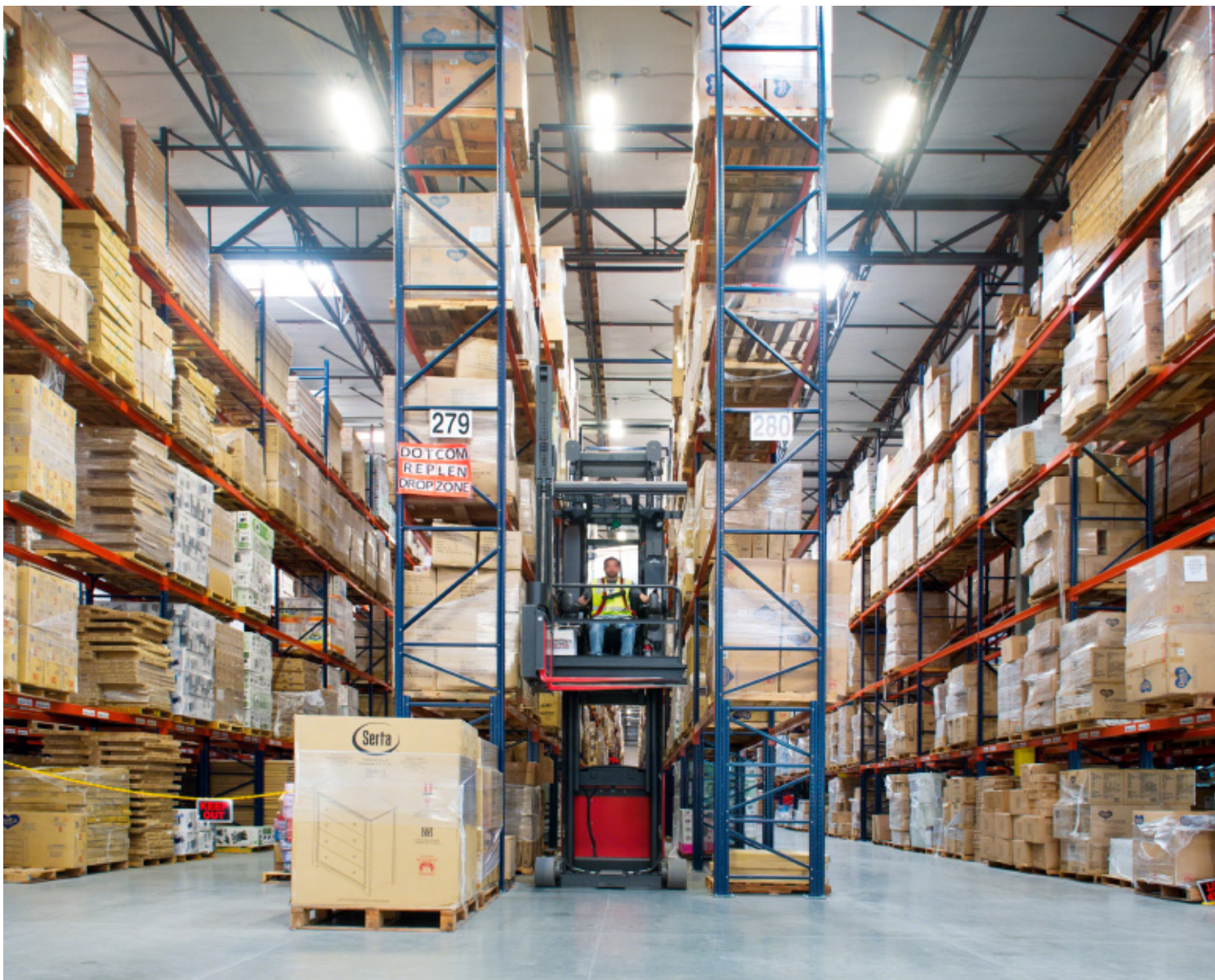
Interlake Mecalux's proposed solution

Interlake Mecalux and warehouse integrated storage solutions provider Global Trade Marketing worked with Delta Children to develop a storage solution that would meet the company's need for storage space and ease of picking.

Half of the blocks hold standard 1,080 x 1,220 mm pallets with three pallets per level, while the other half includes oversized pallets with two pallets per level. In addition, Delta Children took full advantage of the building's height with 11 and 8.5 m tall bays, since wasting this space in the new installation would not have been smart move.



Delta Children's new warehouse features 47 aisles of pallet racking aisles that can store 30,606 pallets in a 26,938 m² area





California is well-known for its high level of seismic activity, so Interlake Mecalux bolted pallet racking is especially designed and reinforced to absorb the forces generated by earthquakes

To boost storage capacity and accommodate its turret trucks, Delta Children opted for 2 m wide aisles, which fit within the building's grid, while also burying the columns. Due to the rigid forklift aisles, Interlake Mecalux and Global Trade Marketing had to adjust the row spacers, which is why their widths range from 300 to 760 mm.

The top ties needed to extend 2.4 m high so the turret trucks would not bump into these ties from underneath. This feature

also explains why some uprights are 11 m high instead of the standard 8.5 m.

Interlake Mecalux and Global Trade Marketing were also able to meet Delta Children's tight deadline for installing the bolted pallet racking. First, they made partial material shipments to deliver the racks within two to three weeks and, then, continued to ship materials until the customer was able to complete the project. Everything was done within two months, from start to finish.





Advantages for Delta Children

- **Increased storage capacity:** by choosing Interlake Mecalux bolted pallet racking, Delta Children was able to increase its storage capacity by 33%.
- **Easy picking:** the installed solution offers direct access to any pallet and is adaptable to any product volume, weight or size, which significantly increases picking speeds.
- **Max out available height:** some bays in the bolted pallet racking system are 11 m high, allowing the company to make use of its new warehouse's height.



Technical data

Storage capacity	30,606 pallets
Pallet size	1,016 x 1,220 mm
No. of aisles	47
Aisle width	2 m
Pallets per level	2 or 3
Pallet racking zone	26,938 m ²

