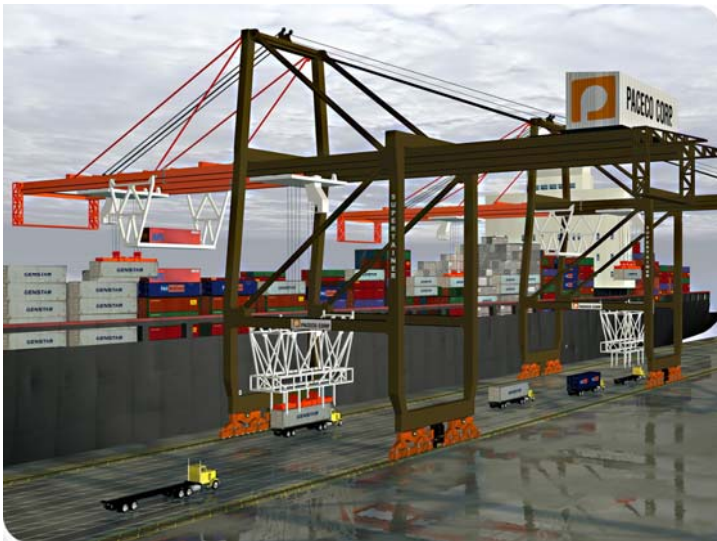


# HIGH PRODUCTIVITY DOCK OPERATIONS

*New Container Handling Concepts Will Improve Vessel Turnaround Time and Improve Operations*



## SUPERTAINER<sup>®</sup> CRANE

- Up to 85 Container Moves Per Hour
- Uses 2 Hoist Trolleys and Horizontal Traverser
- Highly Reduced Rope Sway
- Internal Operation Buffer: Truck and Yard operation delays have less effects on crane



## TWIN-40 BUFFERSTATION<sup>®</sup> MACHINE

- Twin-40 Operation with BufferStation Machine performs up to 60 Container Moves Per Hour
- Efficient Transfers between Twin-40 Quay Crane and Trucks
- Separate Handling: allows individual transfer of containers to trucks so that trucks do not need to be present in pairs

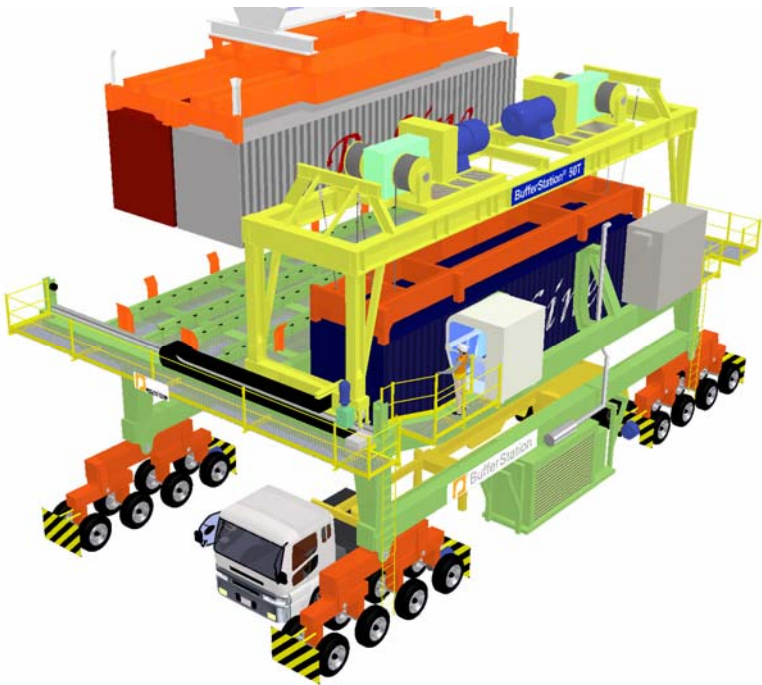


**SUPERTAINER CRANE**

The SUPERTAINER Crane uses two independent trolleys and a horizontal traverser to handle containers. In a typical unloading process, the seaside hoist takes a container from the vessel, lifts it, and places it on the traverser. The traverser moves to the landside hoist, which takes the container and lowers it to trucks at the quay. Since the hoist trolleys perform little horizontal movement, there is very little rope sway. With these features, the SUPERTAINER Crane can perform up to 85 moves per hour.

**SPECIFICATIONS:**

Rated Load:	50 LT
Hoist w/ Rated Load:	137 mpm (449 fpm)
Hoist w/ Empty Spreader:	274 mpm (900 fpm)
Seaside Trolley Speed:	150 mpm (492 fpm)
Traverser Speed:	274 mpm (900 fpm)
Gantry Speed	45 mpm (148 fpm)



**TWIN-40 BUFFERSTATION MACHINE**

Twin-40 Quay Crane Operations suffer from the difficulty of placing two parallel 40 foot containers on two trucks, especially when the trucks are frequently misaligned. The Twin-40 BUFFERSTATION Machine improves the transfer efficiency of containers between Twin-40 Quay Cranes and trucks. It provides a platform that holds two 40 foot containers, and an independent hoist to individually load and unload containers on trucks.

**SPECIFICATIONS:**

Rated Load:	50 LT
Theoretical 2x40 ft. Cycle:	108 seconds
Hoist w/ Rated Load:	23 mpm (75 fpm)
Hoist w/ Empty Spreader:	46 mpm (150 fpm)
Container Carrier Speed:	73 mpm (240 fpm)
Gantry Speed	15 mpm (50 fpm)



NUMBER ONE IN CONTAINER HANDLING - WORLDWIDE LICENSEES  
MANUFACTURING • DEVELOPMENT • SERVICE

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