



**RAM**  
**SPREADERS**

Quayside Productivity Increase with  
**TANDEM40**

**BLACK SEA**  
Ports and Logistics 2026 

Tuesday 9 to Thursday 11 June 2026  
DoubleTree by Hilton Istanbul Piyalepasa, Türkiye

# Tandem 40 Cranes

**“a good choice  
for terminals”**



TIME HOURS



TANDEM 447 / 900

SINGLE 332 / 900



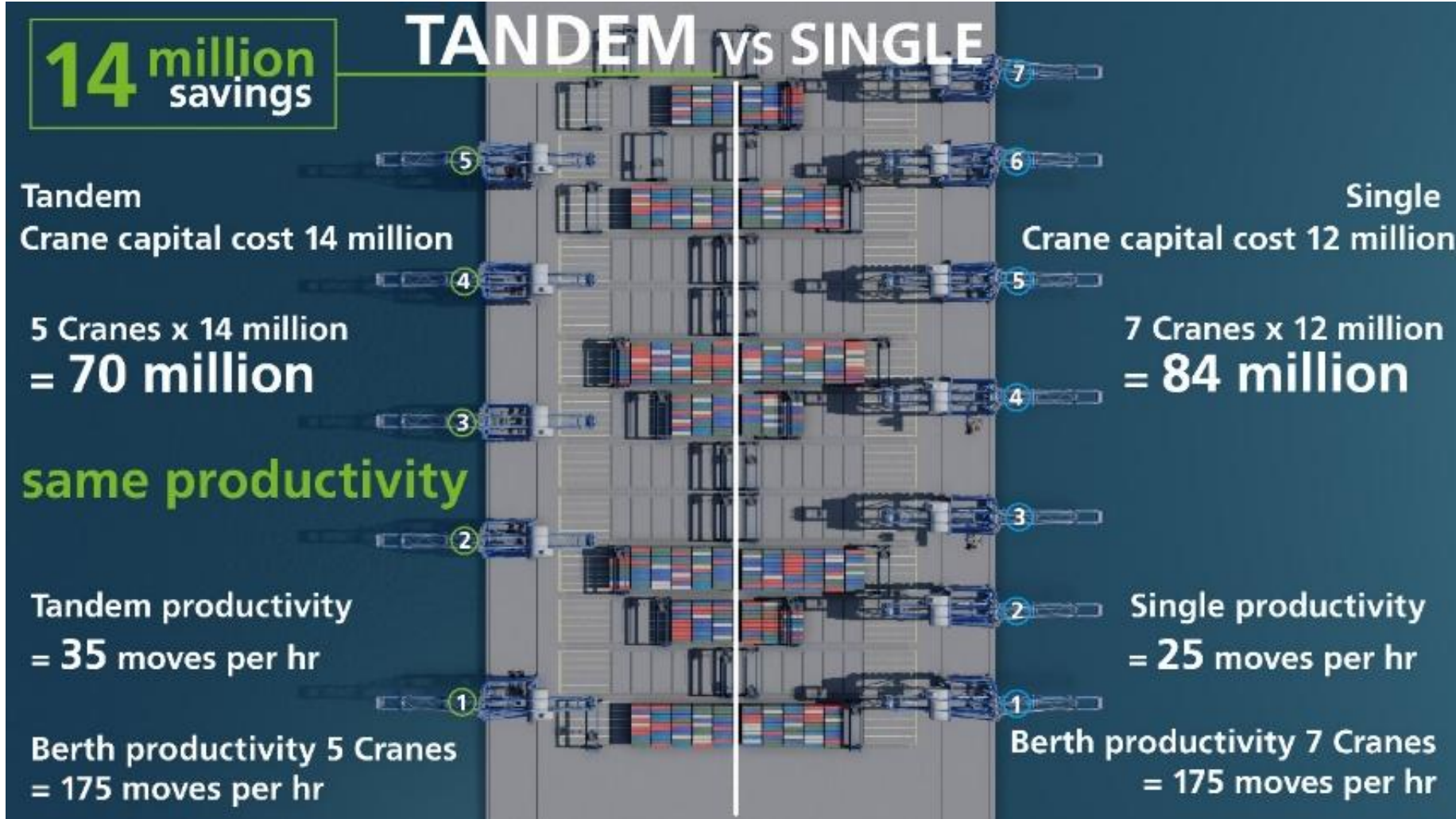
**TANDEM** vs **SINGLE**

# Tandem vs Single – Vessel Turnaround

Vessel turnaround time  
is governed by the concentrated stowage point



# Tandem vs Single – Capital Cost



# Tandem vs Single – Increase Revenue!



## TANDEM

### LABOUR SAVINGS:

**Two gangs for 8 hours**

Working cargo on e berth of a new vessel

5 tandem cranes = new revenue\*

1000 TEUs @ \$100 per TEU

8 hours saved

**100k revenue**

TANDEM

TIME HOURS



\* compared to 7 single cranes

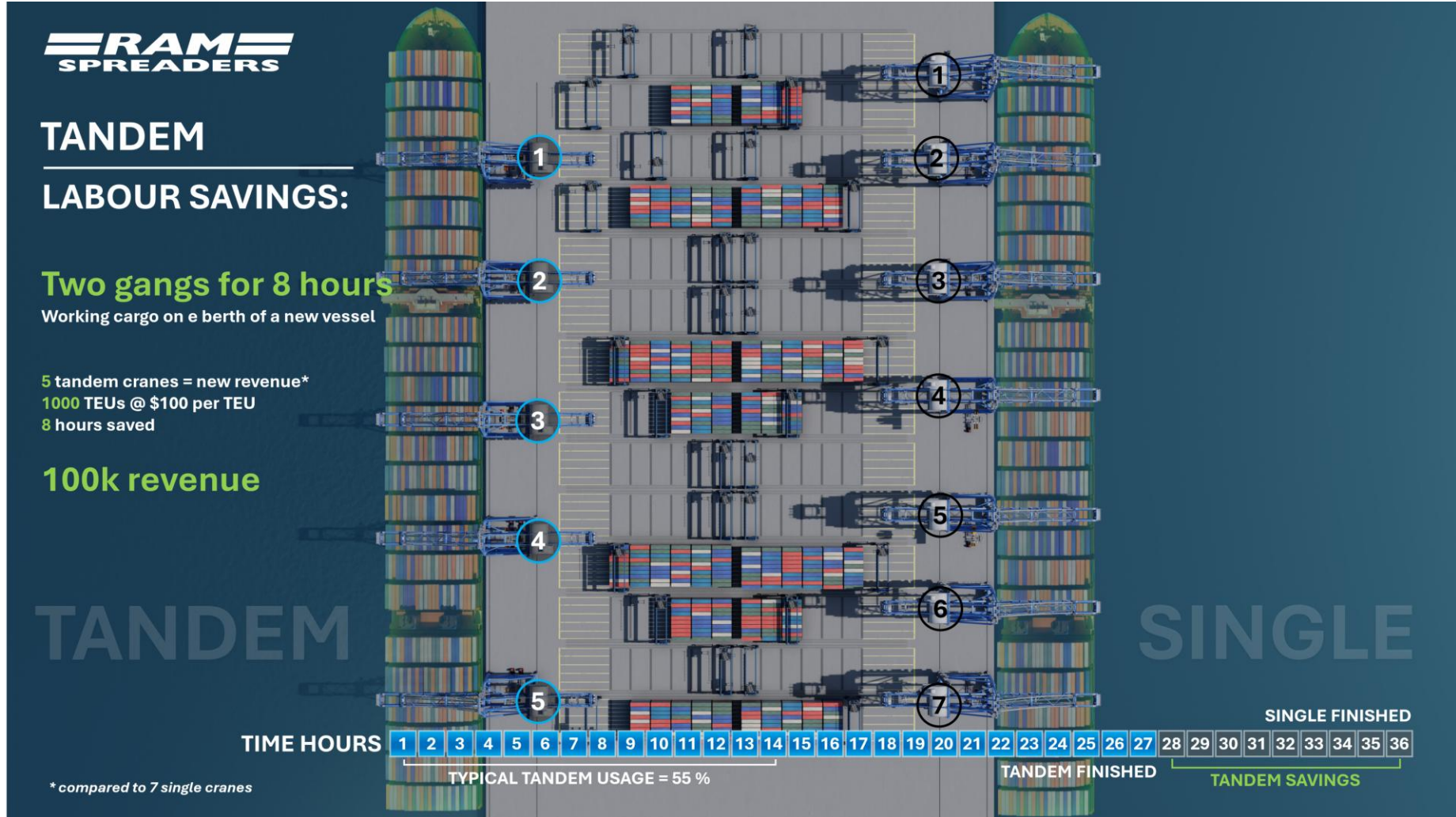
TYPICAL TANDEM USAGE = 55 %

TANDEM FINISHED

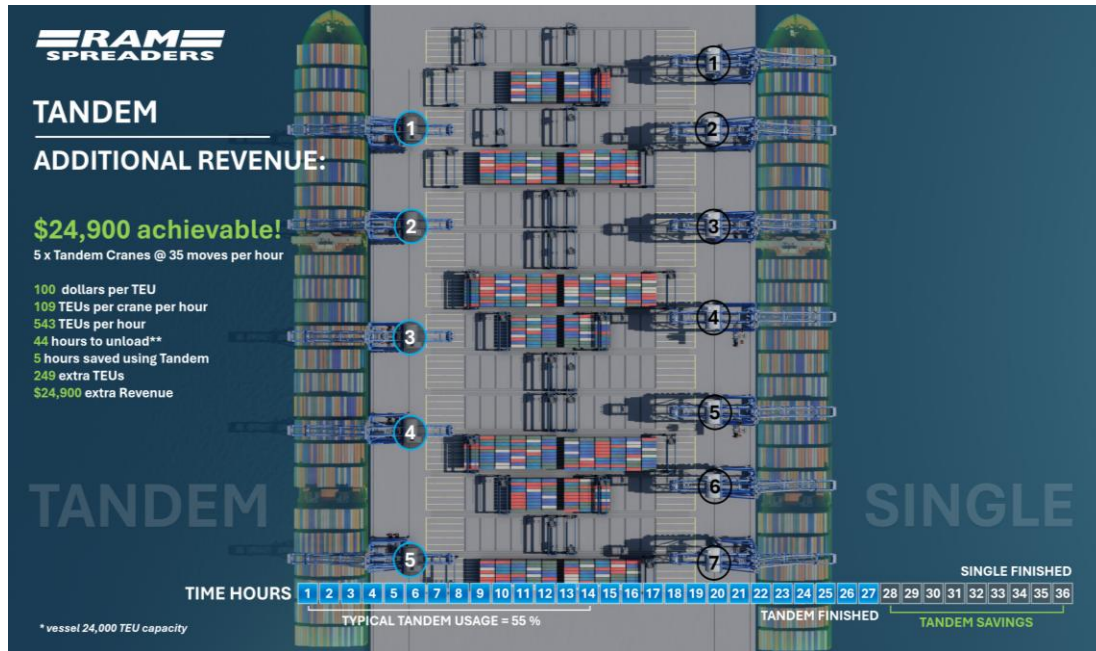
TANDEM SAVINGS

SINGLE FINISHED

SINGLE



# Tandem vs Single – Increase Revenue!



## REVENUE

Tandem operations enable vessels to complete their tasks more quickly, thereby freeing up the berth for new vessels to come alongside. Handling more containers on the same berth enables a terminal to generate more revenue!

### Turnaround Simulation Example:

Tandem crane vessel turnaround, with the second vessel arriving while a single crane operation continues on its first vessel!

### Benefits of Tandem:

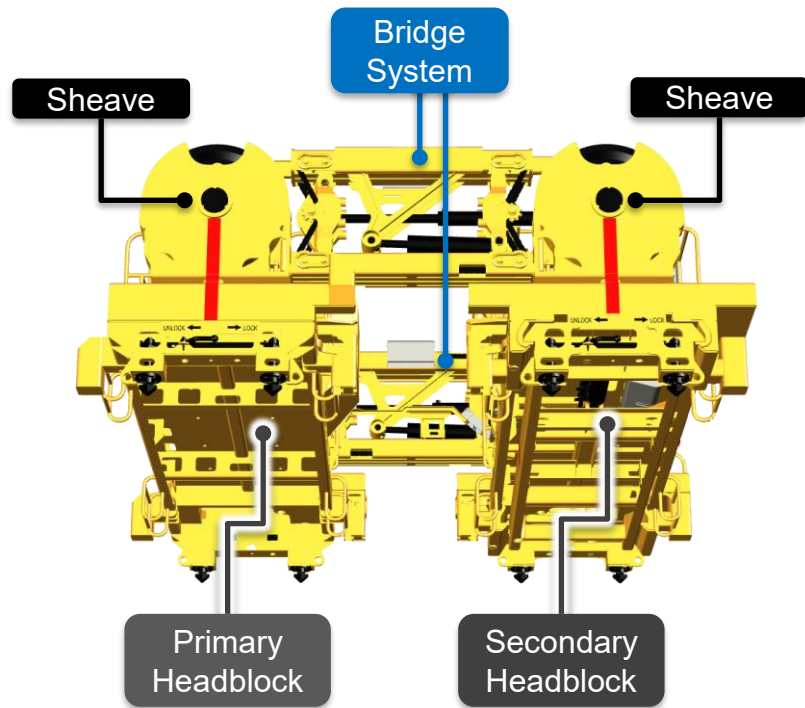
- A terminal can generate an additional \$ 25,000 in revenue when unloading a 24,000 TEU mega-vessel.
- It is possible that a terminal can work an extra 1,272 TEUs in 24 hours, generating an additional \$127.2k.

***“If waiting ships and more cargo can generate additional revenue, then terminals can quickly generate an extra €87.3k per week (€4.5 million per annum) with the same capital”***

# Tandem – What’s Needed

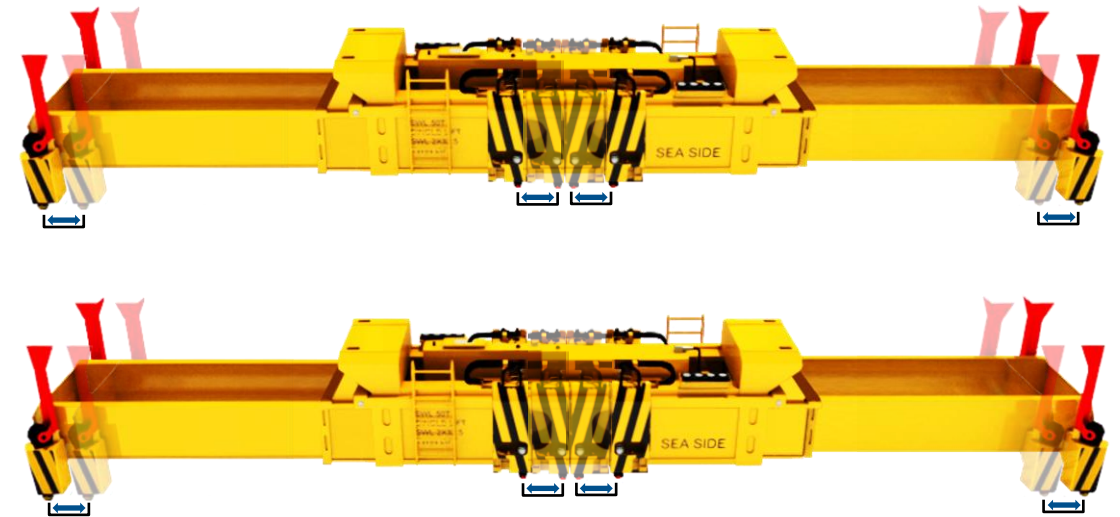
## The Headblock

- Primary & secondary headblock
- Bridge system with sheaves



## Spreaders

- 2 x twin lift spreaders with centre gap separation



# Tandem – Lifting Configurations

## Single Spreader:

1 x 20 | 40 | 45\*  
2 x 20

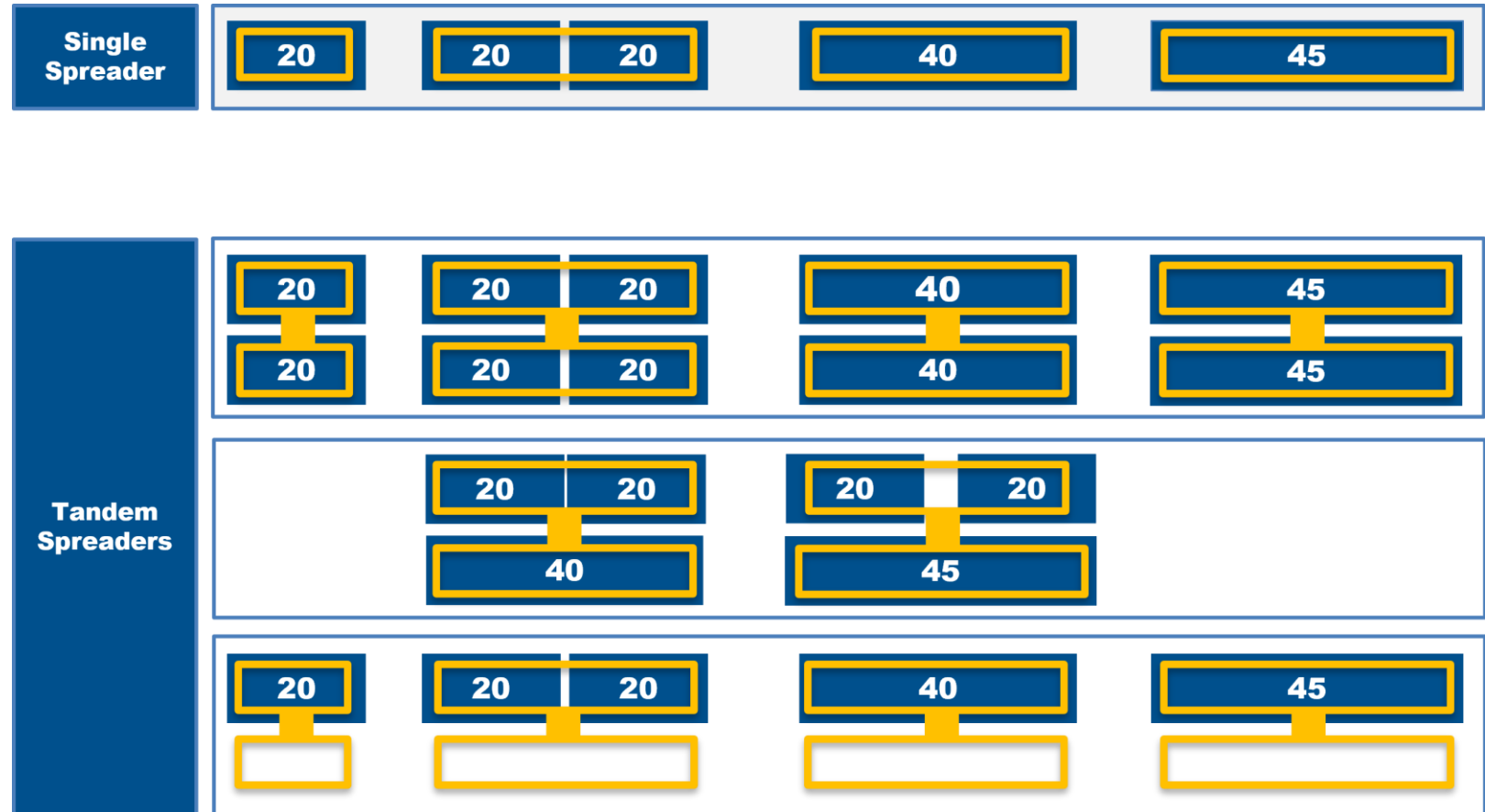
## Tandem Spreaders

1 x 20 | 40 | 45\*  
2 x 20 | 40 | 45\*  
4 x 20

## Combinations:

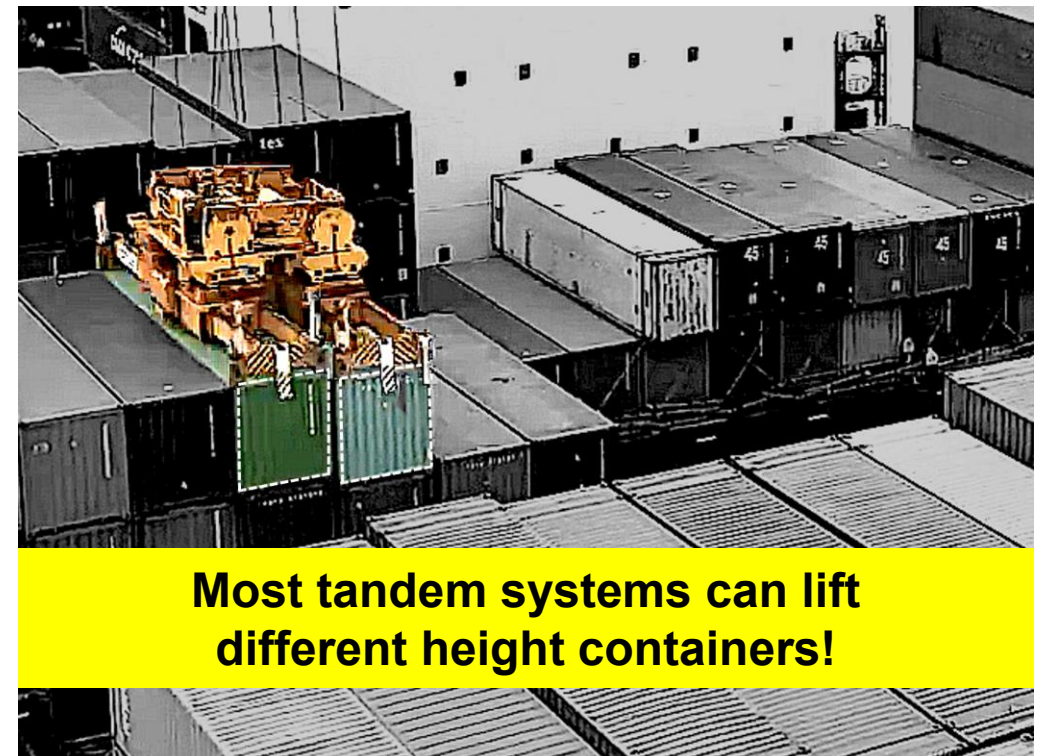
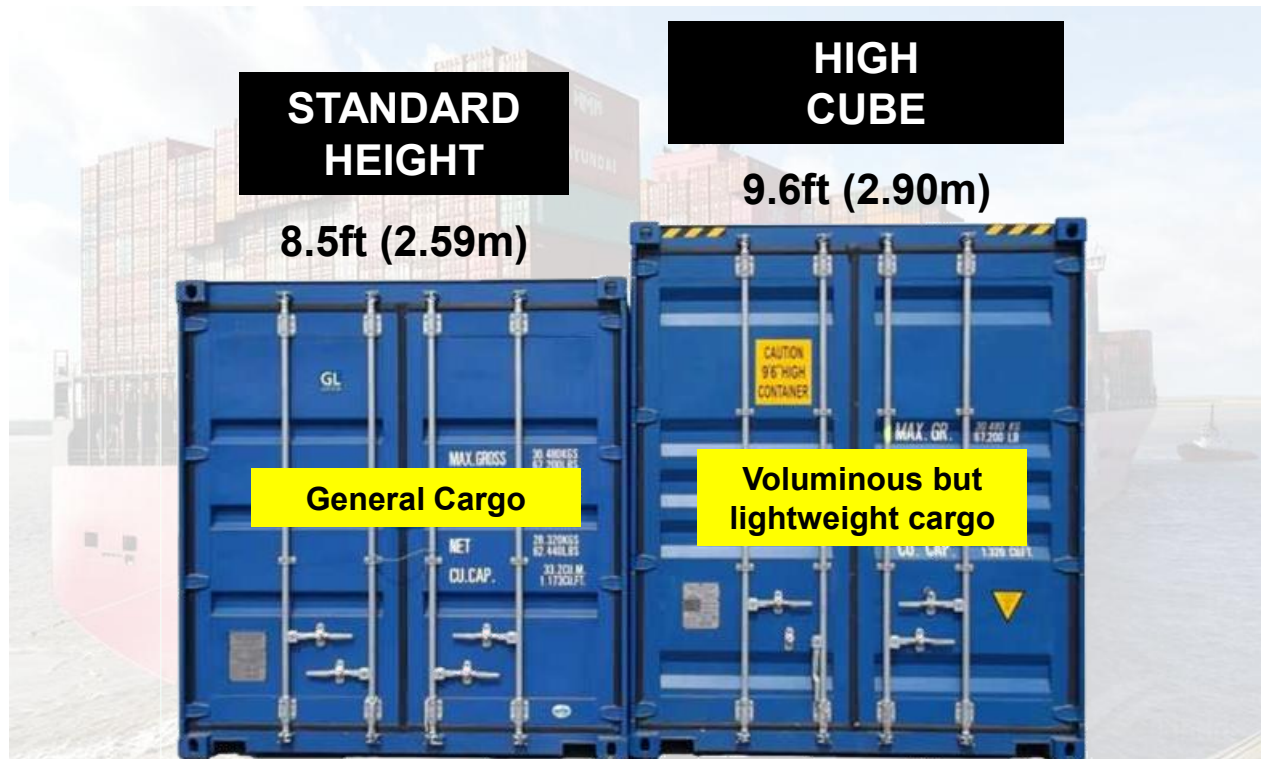
1 x 40 | 45\* + 2 x 20ft

\* subject to spreader specifications



# Tandem – Container Height Differences

With varying cargo needs, the two most common types of 40ft ISO shipping containers are:



# Tandem – Utilization

The key to successful tandem operations comes from three factors:

1

Using a tandem system that can switch fast between tandem and single

2

Flexible design to cover many stowage conditions

3

Good yard support to ensure containers are moved to the yard fast



# **Tandem Headblock System**

*The future of container handling is here*