Amount saved

Cost of the contract for Tuas Phase 1

materials for

each caissor

Bucket size of GOSHO. It can fill one Olympic-size swimming pool in 45 min

The largest Grab Dredger in the world

Height of each caisson, the equivalent of a 10-storey HDB block

cubic metres

with 15 grabs

The Tuas mega port will be outfitted with new technologies such as automated container port systems, to improve the efficiency of terminal operations. It will open in four phases from 2021 to around 2040.

## ADVANCED PORT TECHNOLOGIES

- Automated yard cranes that can load and unload containers with precision, aided by computers, intelligent sensors and cameras
- Fully automated quay cranes to be tested
- Driverless and battery-powered automated guided vehicles to transport containers
- Autonomous truck platooning
- Drones to inspect port equipment and assist in troubleshooting with remote video streaming
- Video analytics of footage to pre-empt breakdowns

## **INTELLIGENT PORT** SYSTEMS/PORT DIGITALISATION

- One-stop digital portal for seamless and more efficient port clearance
- Intelligent planning system to optimise ships' turnaround time at the port and anchorages

# **GREEN TECHNOLOGIES** to reduce carbon emissions consumption

## Usage of renewable energy such as solar

 Green building designs, rainwater

Concrete box caissons are used <u>to form</u> a seawall, retaining the and functioning as the quay for container vessels when the

Electrified port handling equipment

 Smart grid systems that actively optimise overall electrical

power

294ha

Area to be reclaimed, the size of 272 football fields