

Mast climbing work platform expansion **Double-Decker**

As Wikipedia says: A double-decker is a vehicle that has two levels for passengers or cargo, one deck above the other. Scanclimber's Double-Decker is a new Mast Climbing Work Platform (MCWP) expansion which is available for SC8000 MCWP. It is fully compatible with masts and other parts and components on Scanclimber's standard platforms.



Double-Decker

General

THE SCANCLIMBER DOUBLE-DECKER expansion transforms the standard mast climbing work platform to a dynamically aligning platform that makes it easier and quicker to perform surface work on rounded, curved and arched surfaces. It moves up and down naturally, like any other platform but it also moves horizontally in two levels, with several outreaching decks.

Two platform levels, several independently moving decks

THE SC DOUBLE-DECKER is a unique platform with two working levels fixed one on top of the other. Both platform levels consist of one to many independent and horizontal, back and forth sliding platform decks (modules). The number of decks is a dynamic factory option; this implies that the customer can decide the number of moving decks before ordering the product.

Suitability

THE DOUBLE-DECKER PLATFORM is well suited for work on different types of 3 dimensional complex surfaces, like in construction and shipbuilding or similar industries where there is a need to work on facades or high horizontal surfaces with protruding obstructions.

Deck reach

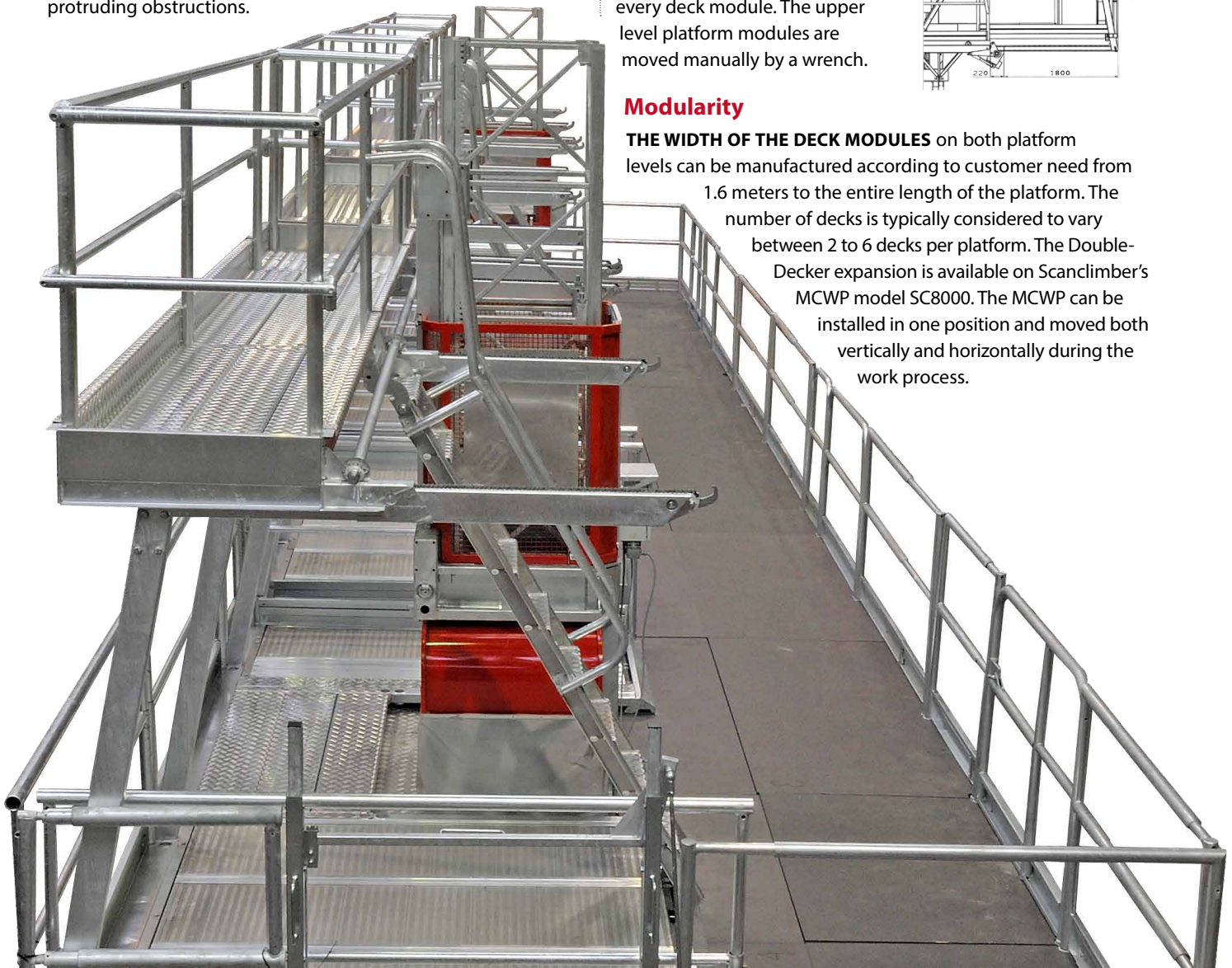
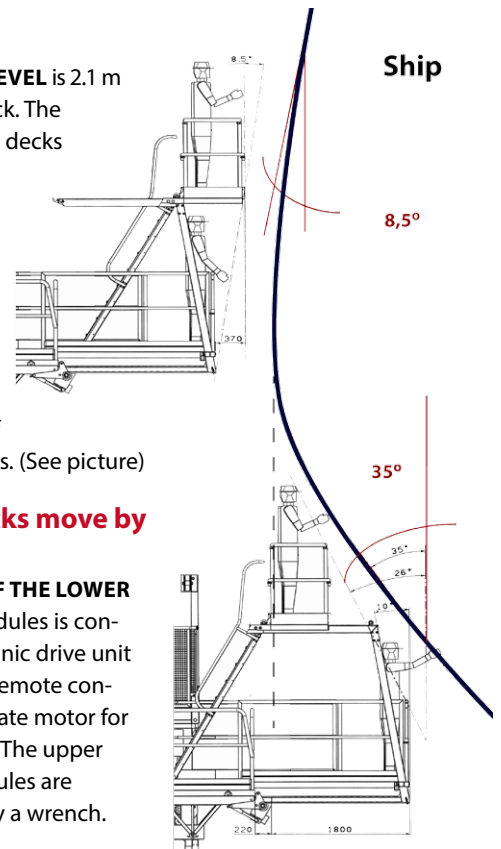
THE UPPER DECK LEVEL is 2.1 m above the lower deck. The lower level platform decks can slide 2.0 m outwards from the standard platform and the upper level deck modules can move 36 cm outwards and 1.0 m inwards compared to the movement of the lower level decks. (See picture)

Lower level decks move by electric motors

THE MOVEMENT OF THE LOWER LEVEL platform modules is controlled by an electronic drive unit using the pendant remote control. There is a separate motor for every deck module. The upper level platform modules are moved manually by a wrench.

Modularity

THE WIDTH OF THE DECK MODULES on both platform levels can be manufactured according to customer need from 1.6 meters to the entire length of the platform. The number of decks is typically considered to vary between 2 to 6 decks per platform. The Double-Decker expansion is available on Scanclimber's MCWP model SC8000. The MCWP can be installed in one position and moved both vertically and horizontally during the work process.





Example case: Shipyard, Germany

SHIPYARD APPLIES the Double-Decker to vessel and ship surface/painting work. They are using the free standing twin, the SC8000 MCWP construction, which reaches a height of 20.7 meters without anchoring. The vessel can be painted from top to bottom at full length of the platform once a Double-Decker is erected. One Double-Decker that shipyard is using has a total of 8 separately movable decks.

THE DOUBLE-DECKER IS DRIVEN up and down, carrying men, painting pumps and some light cargo. The men carry out ship painting from the upper and lower platforms freely. Once the platform is erected, which takes considerably less time as compared to assembling scaffolding on the vessel, the whole vessel can be painted from the platform.

THIS IS POSSIBLE SINCE EACH of the decks on both platform levels can be moved independently and aligned to the vessel's complex 3D surface, regardless of the height at which the platform is positioned, thus enabling painting work on the vessel. The ship can be accessed and painted quick and easy, without any obstructions or unnecessary running up and down on the scaffolding.

WITHOUT MOVING THE PLATFORM, the maximum horizontal surface overhang can be 2.2 meters on one side.

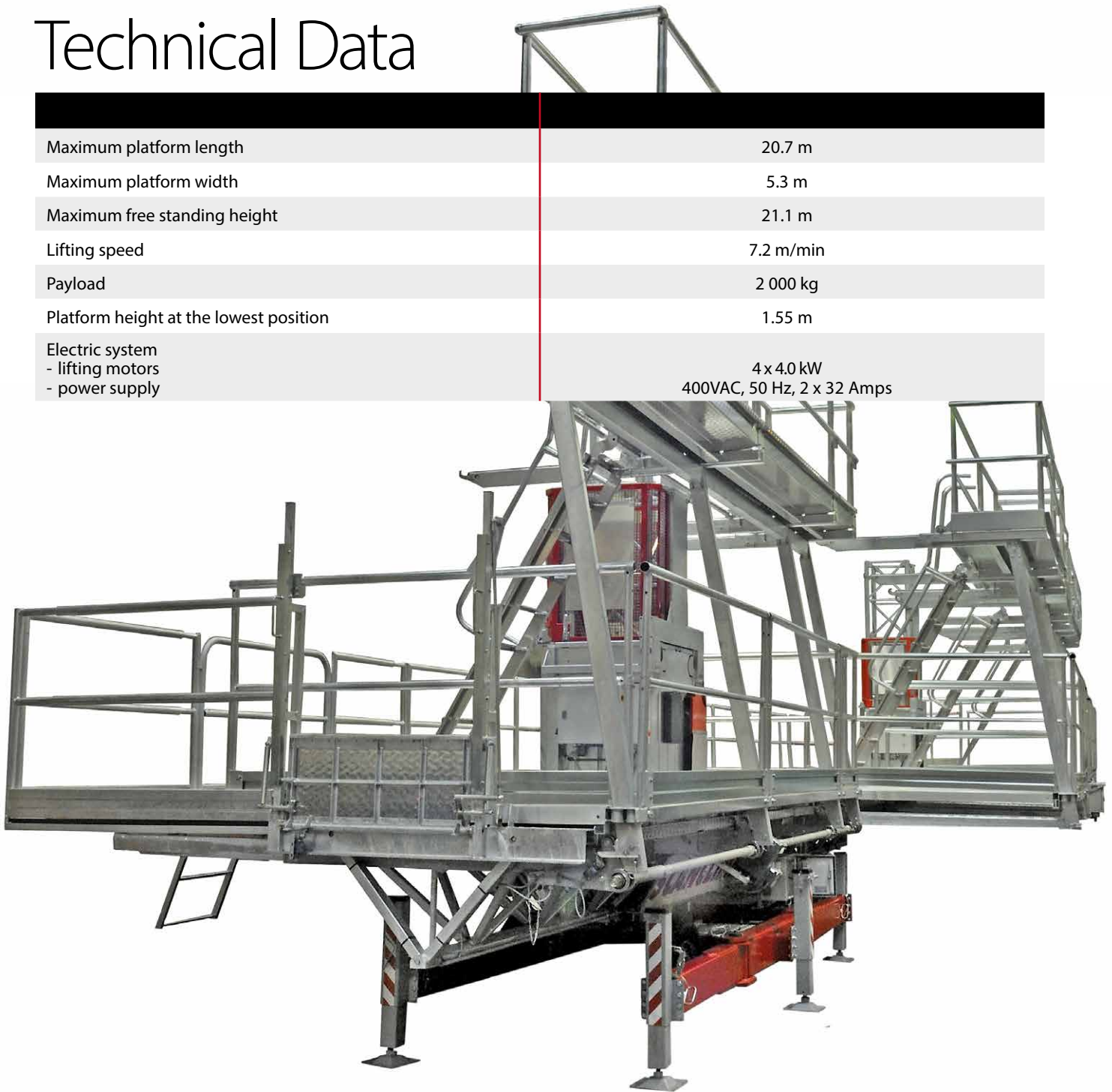
Fitness

THE DOUBLE-DECKER fits nicely into Scanclimber's product range. It offers new opportunities of application and usage to existing customers, who can use our products in ways that are both versatile and productive. It also serves Scanclimber in its applicability to cater to new businesses, like shipbuilding (as explained in the example above). Since the product can also be used with one platform, it offers construction/rental businesses with dynamically adjustable horizontal positioning possibilities.



Technical Data

Maximum platform length	20.7 m
Maximum platform width	5.3 m
Maximum free standing height	21.1 m
Lifting speed	7.2 m/min
Payload	2 000 kg
Platform height at the lowest position	1.55 m
Electric system - lifting motors - power supply	4 x 4.0 kW 400VAC, 50 Hz, 2 x 32 Amps



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