

### Model 6 Harbour Crane





### Model 6 – At A Glance

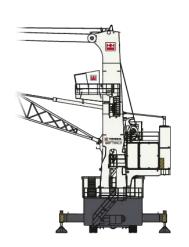


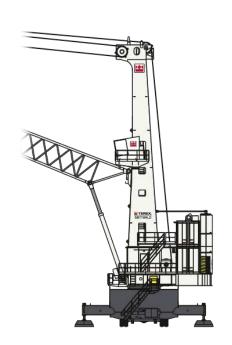


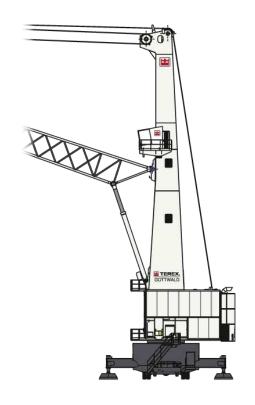
### Harbour Crane Families



Terex® Gottwald Generation 5 cranes – the right crane configuration for every situation







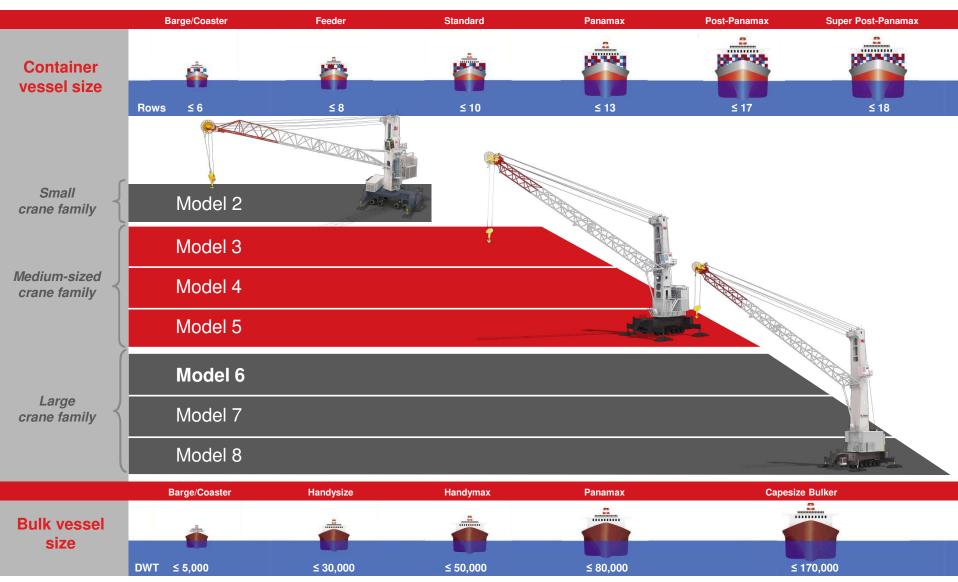
Small crane family (Model 2)

Medium-sized crane family (Models 3, 4, 5)

Large crane family (Models 6, 7, 8)

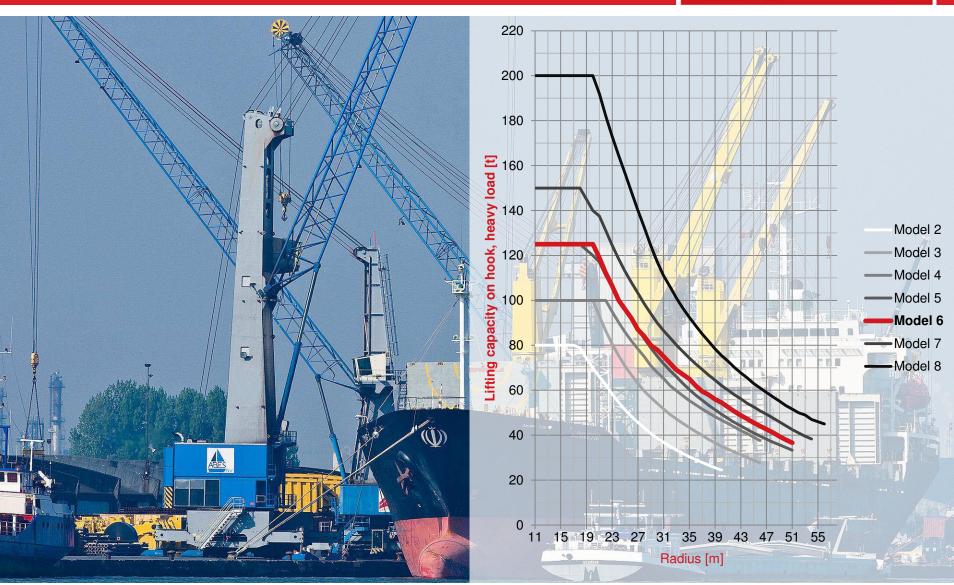
## Harbour Crane Range





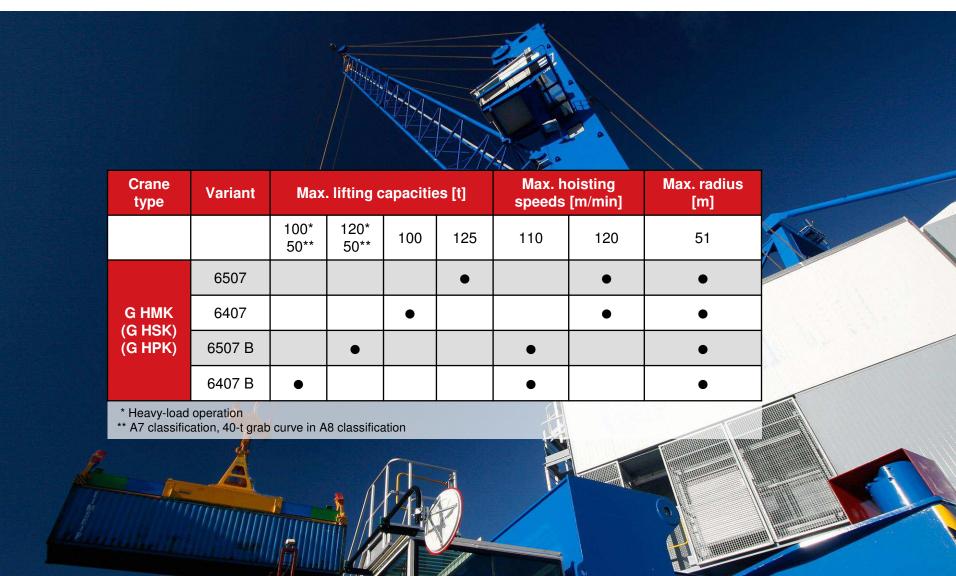
## Lifting Capacity Curves





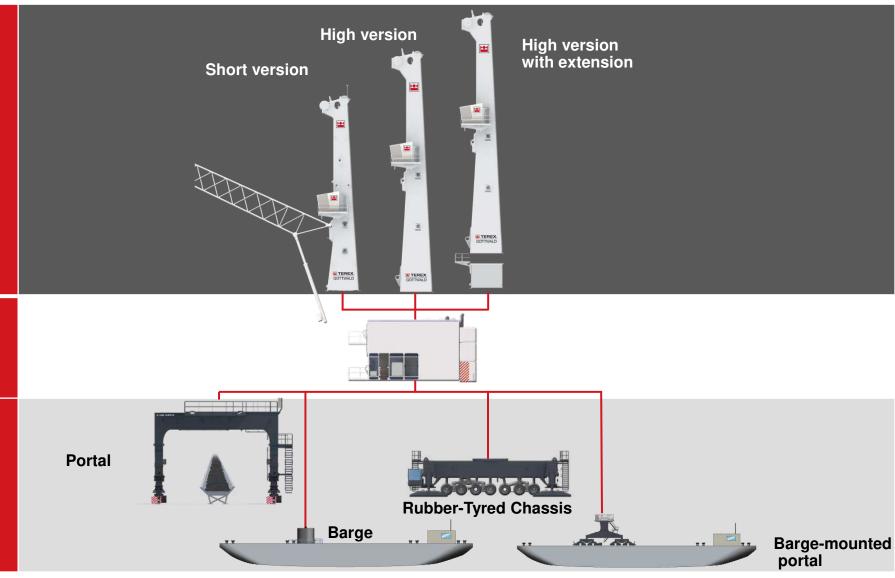
## Model 6 – Types and Variants





## Modular Design Principle

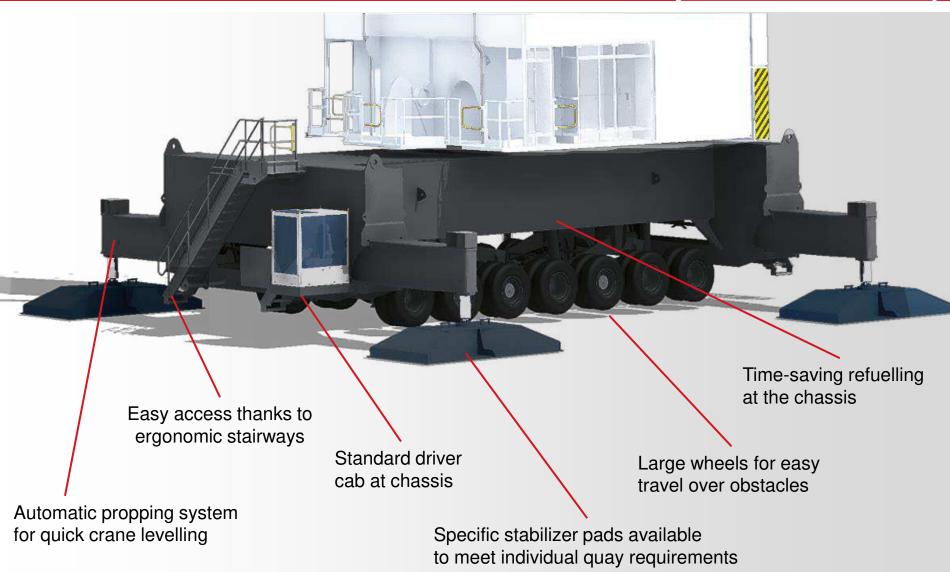






### Chassis - Overview





### Chassis – Excellent Maneuverability





### Chassis – Optional Features



## Interlocking stabilizer beams

- Interlocking-type stabilizer beams reduce passage width by approx. 700 mm
- Stabilizer pads can be removed for minimum passage width
- Optionally, pads can be located on side of the chassis



# **Customized propping** pads

- For quays with restricted permissible contact pressure
- Adapt load to static requirements of quay
- Range of customized pads available
- Individual design possible for very specific requirements
- Pad design can also further reduce passage width of crane



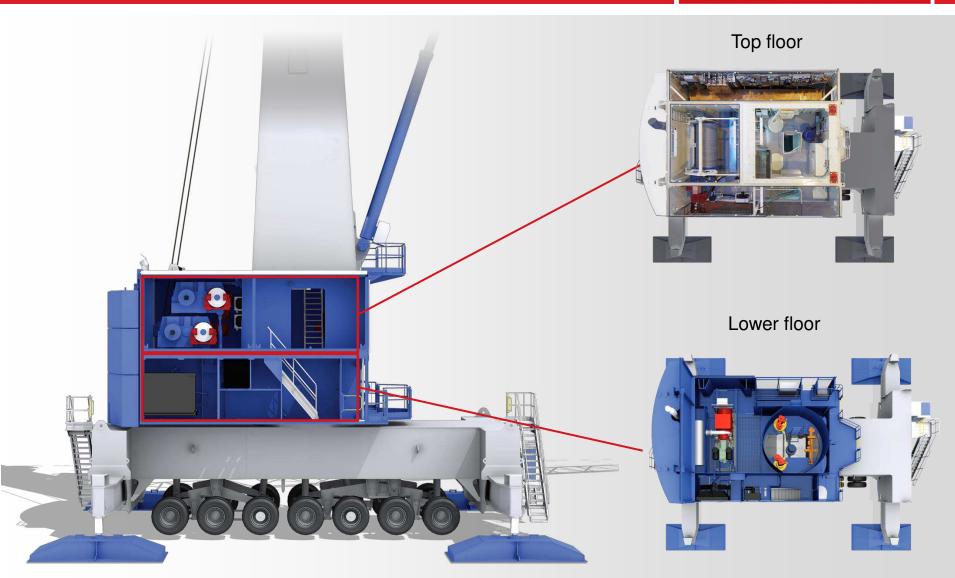
#### Special chassis designs

- Meet individual customer requirements, e. g.
  - Low permissible quay loads
  - Specific quay structure
- Special features, e.g.
  - Type of axle set
  - Spacing of axle sets
  - Number of axle sets



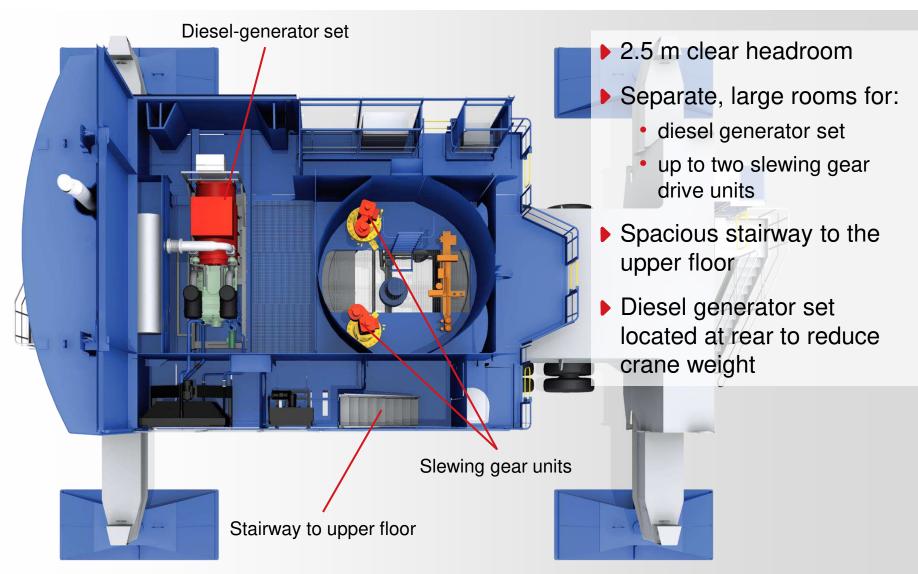
## Two Floor Superstructure





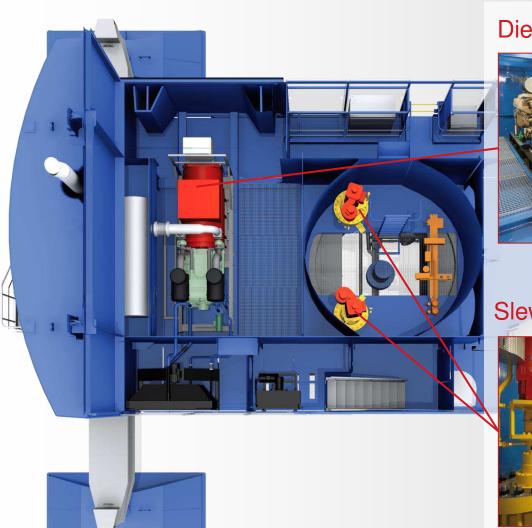
### Lower Floor – Overview





### Lower Floor – In Detail





Diesel generator



- Mounted on slide
- Day tank located next to generator; automatic refilling from main tank
- Power based on variant and application

Slewing gear units

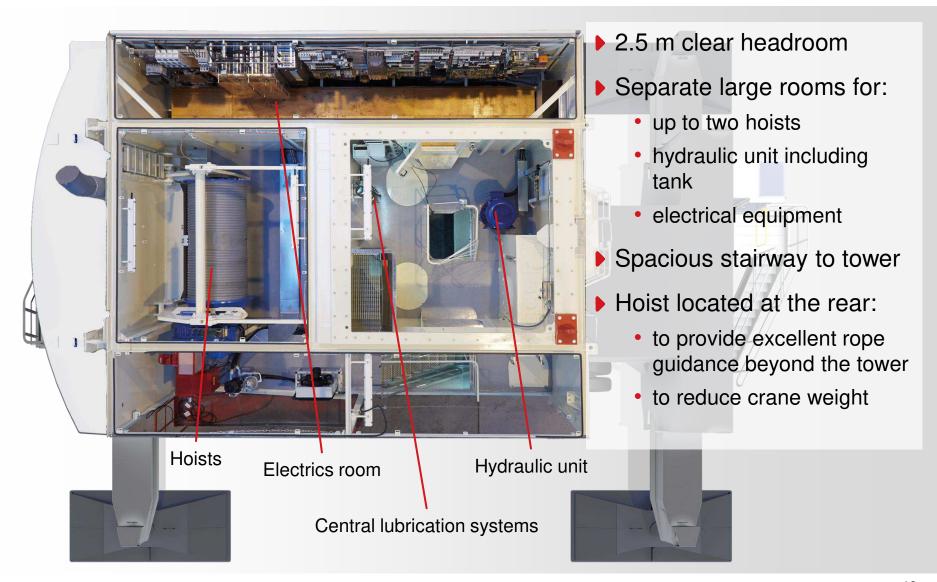


- Number of units
  as required for
  variant and
  application
- Three-phase\* drive for smooth acceleration and deceleration

\*DC for bulk version

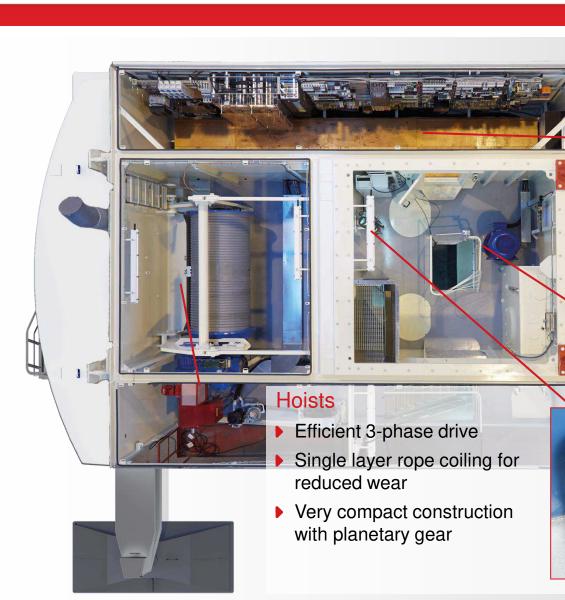
### Top Floor – Overview





### Top Floor – In Detail



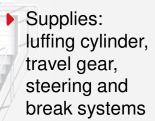


#### Electrics room



Hydraulic unit

- Spacious
- Inverter units for 3-phase drives
- Heated and air-conditioned





- Standard: slew ring, boom root, luffing cylinder bearings
- Option: chassis, rope pulleys

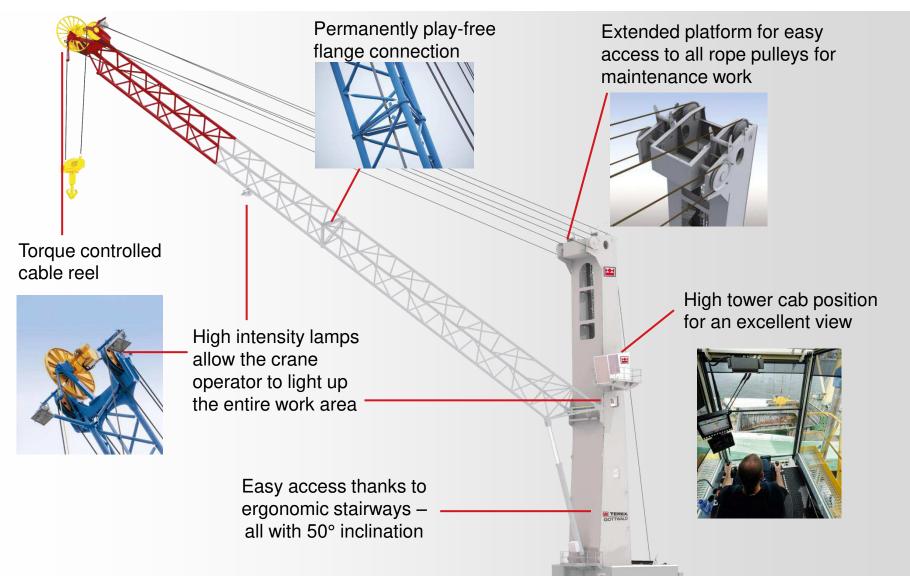
### Top Floor – In Detail (Bulk Versions)





### Tower and Boom - Overview





### Tower Cab & Crane Management





### Visumatic® crane management

- Enhanced diagnostic possibilities
- Intuitive operator guidance

#### Tower cab

- Excellent view thanks to high position
- Ergonomically designed
- Option: forward mounted cab





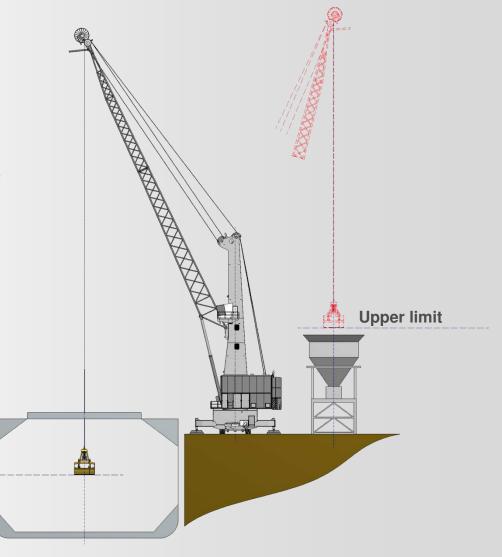


## Model 6 – Load Guidance System

Lower limit



- Automation of frequently repeated crane motions
- Higher handling rates even for inexperienced crane operators
- ▶ The load guidance system comprises optional features:
  - Linear load motion
  - Hoisting height limiting
  - Load antisway
  - Point-to-point handling mode



### **Smart Crane Features**



#### **Tandem lift assistant**

- Full capacity of both cranes can be exploited
- Remote control by only one crane driver
- Includes vertical lift assistant



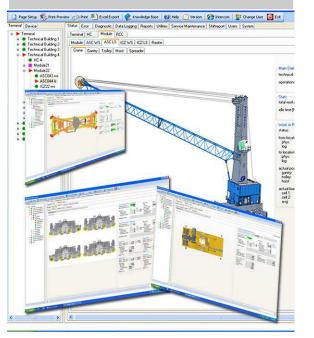
#### Weighing system

- Mounted direct on the crane
- Fast and accurate
- Verifiable for commercial use (EU type approval)
- No additional process steps required



#### **FMDS**

- FMDS Basic
  - Web reporting
  - Remote desktop
  - Remote assistance
- FMDS Advanced
  - Extensive diagnostic and analytic functions
  - Connection to other IT systems (e.g. TOS, ERP)



### Electric Drive Technology

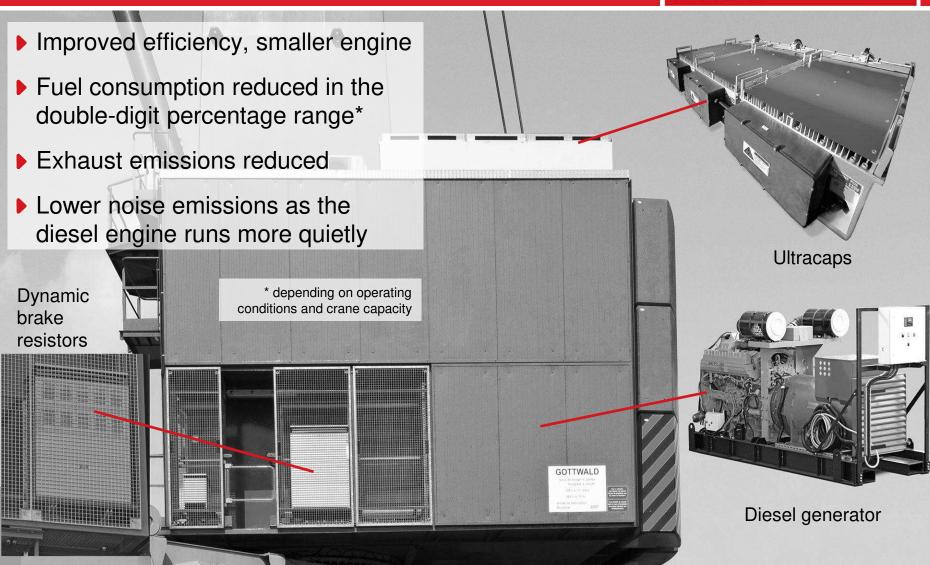




- Dynamic brake resistors as standard: fuel savings of up to 15.2% depending on operating conditions and crane capacity
- Easy connection to terminal mains (external power supply)

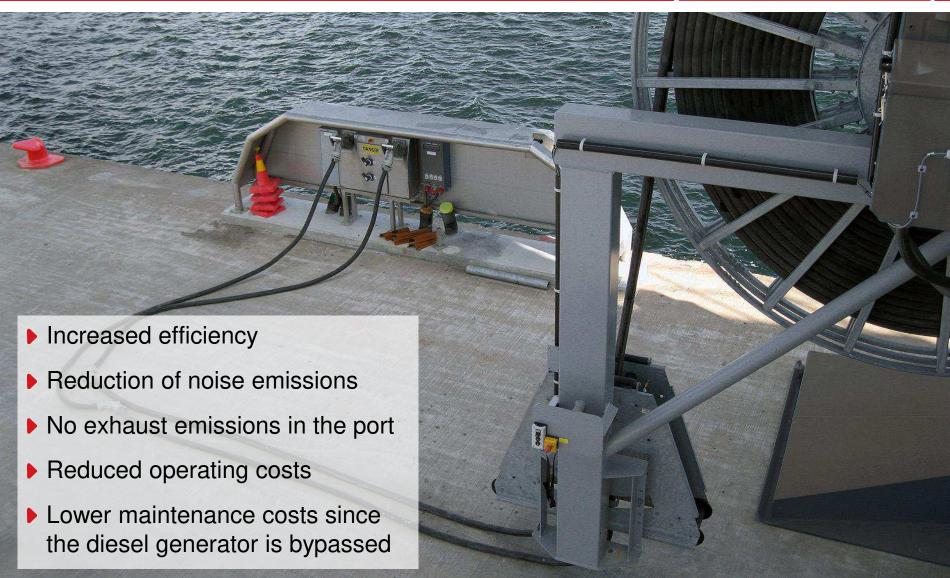
## **Hybrid Drive**





## **External Power Supply**





## Mounted on a Rubber-Tyred Chassis





### **Rail-Mounted Solutions**





## **Barge Solutions**





# High-Performance Container Handling TEREX





## Professional Bulk Handling





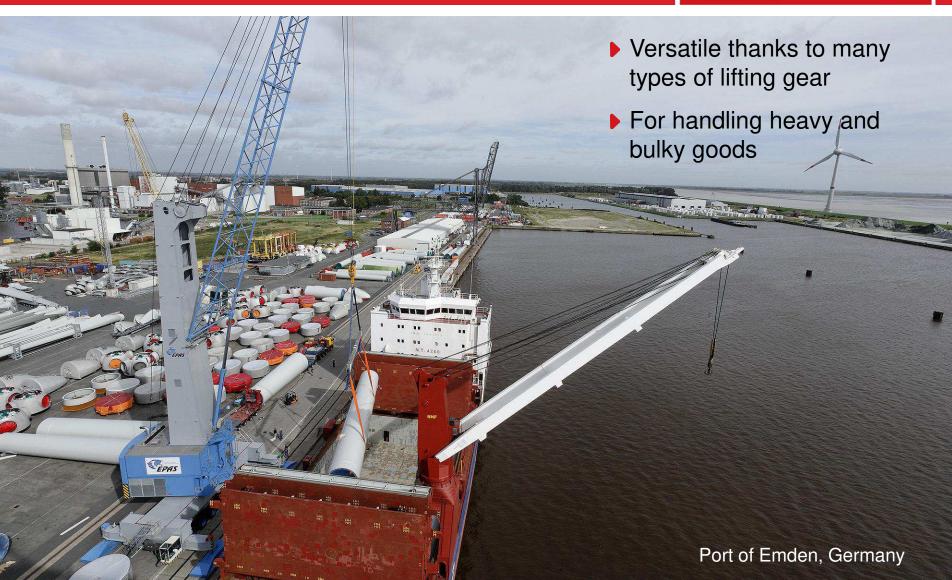
## Handling of General Cargo





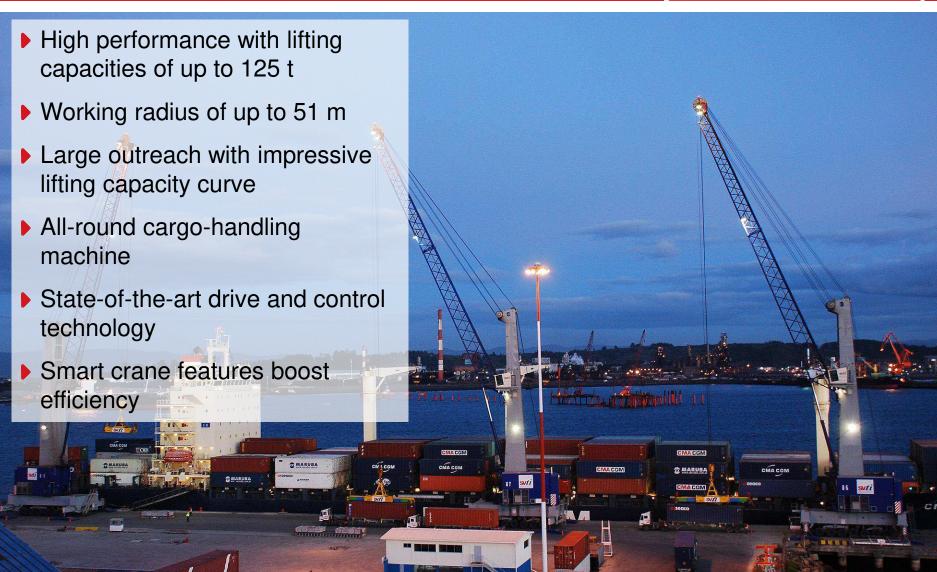
## Handling of Project Cargo





### Model 6 – In a Nutshell



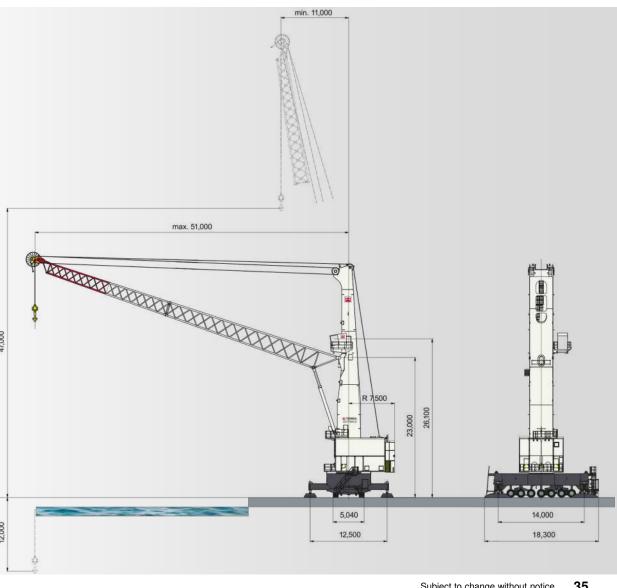




### Model 6 – Main Technical Data



| Dimensions and weights                     |  |  |  |  |
|--|--|--|--|--|
| Radius                                     | 11.0 m – 51.0 m  |  |  |  |
| Boom pivot point                           | High tower 23.0 m<br>with extension 26.0 m<br>Short tower 17.6 m |  |  |  |
| Tower cab<br>(crane operator eye<br>level) | High tower 26.1 m<br>with extension 29.1 m<br>Short tower 20.7 m |  |  |  |
| Propping base                              | 14.0 m x 12.5 m  |  |  |  |
| Chassis in travel mode                     | 18.3 m x 9.0 m<br>optional : 18.3 m x 8.3 m                      |  |  |  |
| Weight (approx.)                           | 420 t  |  |  |  |
| Hoisting heights                           |  |  |  |  |
| Above quay level                           | G HMK 6407/ 6507 B: 46.0 m<br>G HMK 6407/6507: 47.0 m            |  |  |  |
| Below quay level                           | 12.0 m   |  |  |  |
| Travel gear                                |  |  |  |  |
| Axles                                      | 7  |  |  |  |
| Steered axles                              | 7  |  |  |  |
| Driven axles                               | 2  |  |  |  |
| Crab steering                              | 25°  |  |  |  |
| Working speed                              | s and drive power  |  |  |  |
| Slewing                                    | 0 – 1.6 rpm  |  |  |  |
| Luffing                                    | 0 – 82 m/min   |  |  |  |
| Travelling                                 | 0 – 80 m/min   |  |  |  |



## Model 6 – Lifting Capacity in Tonnes

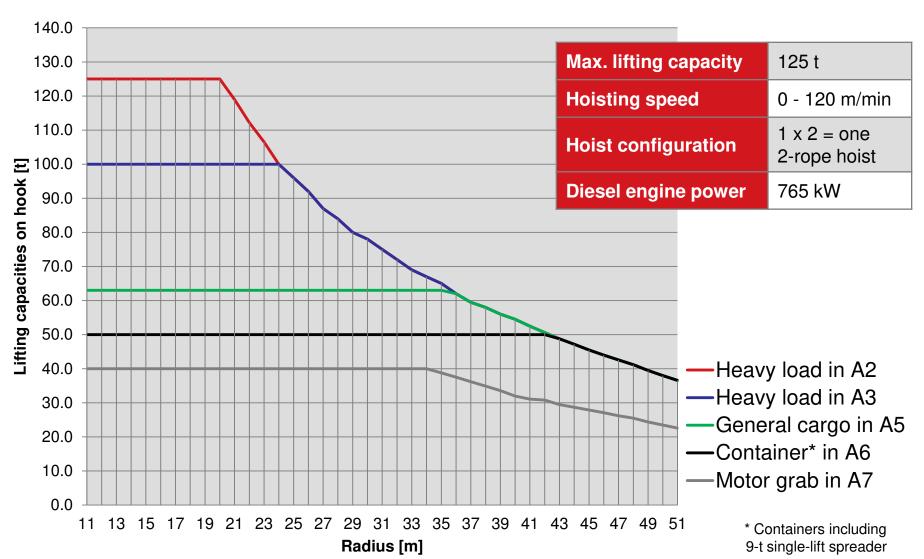


| Operating modes |       | Heavy load | I     | Genera | al cargo | Cont | ainer* | Motor grab | 4-rope grab A7/<br>motor grab | 4-rope grab A8 |
|-----------------|-------|------------|-------|--------|----------|------|--------|------------|-------------------------------|----------------|
| G HMK 6507      | •     |            |       | •      | •        | •    | •      | •          |                               |                |
| G HMK 6407      |       |            | •     | •      | •        | •    | •      | •          |                               |                |
| G HMK 6507 B    |       | •          |       | •      |          | •    |        |            | •                             | •              |
| G HMK 6407 B    |       |            | •     | •      |          | •    |        |            | •                             | •              |
| Radius [m]      |       |            |       |        |          |      |        |            |                               |                |
| 11 – 18         | 125.0 | 120.0      | 100.0 | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 19              | 125.0 | 117.0      | 100.0 | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 20              | 125.0 | 114.0      | 100.0 | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 21              | 119.0 | 111.0      | 100.0 | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 23              | 106.5 | 104.0      | 100.0 | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 25              | 96.0  | 96.0       | 96.0  | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 27              | 87.0  | 87.0       | 87.0  | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 29              | 80.0  | 80.0       | 80.0  | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 31              | 75.0  | 75.0       | 75.0  | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 50.0                          | 40.0           |
| 33              | 69.0  | 69.0       | 69.0  | 63.0   | 47.0     | 41.0 | 38.0   | 40.0       | 48.3                          | 40.0           |
| 35              | 65.0  | 65.0       | 65.0  | 63.0   | 47.0     | 41.0 | 38.0   | 38.8       | 44.7                          | 38.4           |
| 37              | 59.5  | 59.5       | 59.5  | 59.5   | 47.0     | 41.0 | 38.0   | 36.2       | 40.8                          | 35.8           |
| 39              | 56.0  | 56.0       | 56.0  | 56.0   | 47.0     | 41.0 | 38.0   | 33.6       | 37.9                          | 33.3           |
| 41              | 52.5  | 52.5       | 52.5  | 52.5   | 47.0     | 41.0 | 38.0   | 31.1       | 34.8                          | 31.1           |
| 43              | 48.8  | 48.8       | 48.8  | 48.8   | 47.0     | 39.8 | 38.0   | 29.5       | 32.5                          | 29.0           |
| 45              | 45.5  | 45.5       | 45.5  | 45.5   | 45.5     | 36.5 | 36.5   | 27.9       | 30.4                          | 27.1           |
| 47              | 42.6  | 42.6       | 42.6  | 42.6   | 42.6     | 33.6 | 33.6   | 26.2       | 28.5                          | 25.4           |
| 49              | 39.5  | 39.5       | 39.5  | 39.5   | 39.5     | 30.5 | 30.5   | 24.4       | 26.8                          | 23.8           |
| 51              | 36.6  | 36.6       | 36.6  | 36.6   | 36.6     | 27.6 | 27.6   | 22.6       | 25.2                          | 22.4           |

<sup>\*</sup> Containers below 9-t single-lift spreader

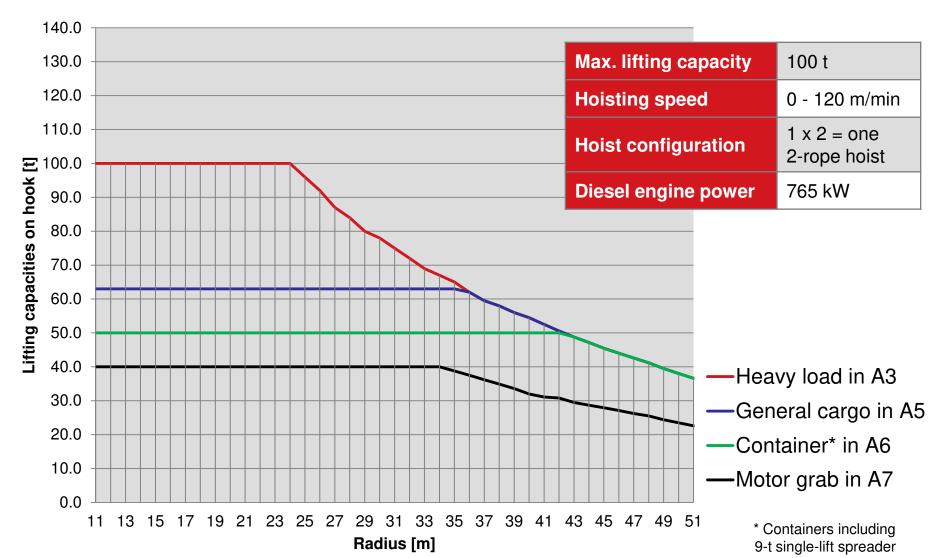
### G HMK 6507





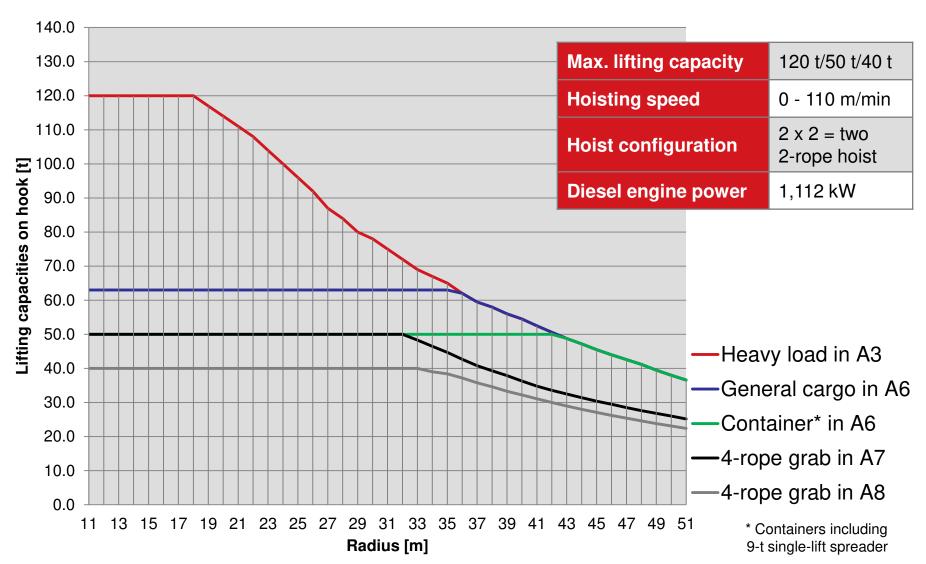
### G HMK 6407





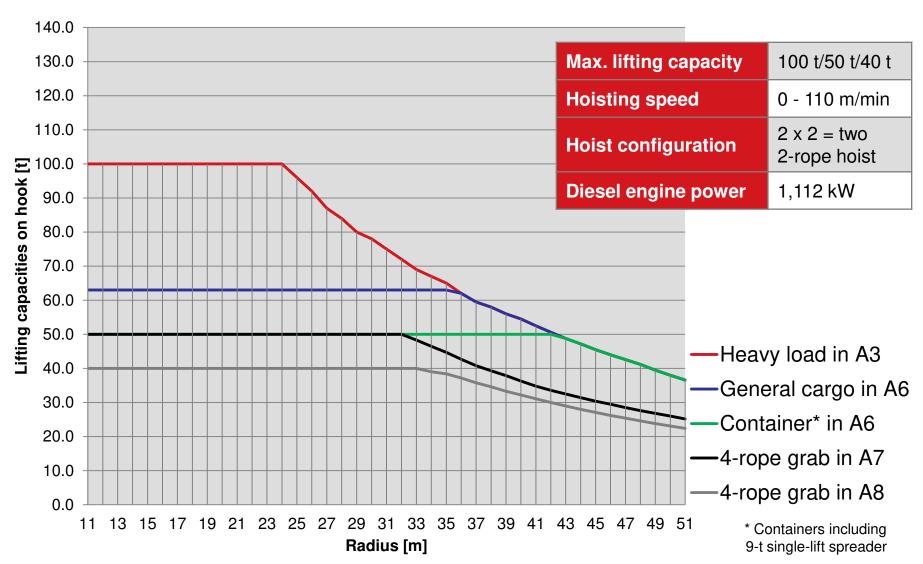
### G HMK 6507 B





### G HMK 6407 B





## Equipment (1)



| Section   | Standard | Option |
|---|----------|--------|
| Drive system  |          |        |
| Diesel generator drive  |          |        |
| - Diesel engine MAN (765 kW)  | •        |        |
| - Diesel engine Cummins (895 kW)  |          | •      |
| - Diesel engine Cummins (1.112 kW) for G HMK 6407 B                         | •        |        |
| External power supply   |          |        |
| - Preparation for external power supply                                     |          | •*     |
| - Low-voltage mains power equipment   |          | •*     |
| - Medium-voltage mains power equipment                                      |          | •*     |
| Dynamic brake resistors   | •*       |        |
| Hybrid drive including double-layer high performance capacitors (ultracaps) |          | •*     |

\* With its products and drive technologies, Terex Port Solutions is focused on offering alternative, environmentally compatible solutions.



More information about additional options on request. Based on individual needs we supply such lifting gear as spreaders and grabs.

| Section                              | Standard | Option |
|--------------------------------------|----------|--------|
| Controls                             |          |        |
| Visumatic®crane management system    | •        |        |
| Radio remote control (all functions) | •        |        |
| Load guidance system                 |          |        |
| - Antisway                           |          | •      |
| - Load linear motion                 |          | •      |
| - Point-to-point handling mode       |          | •      |
| - Hoisting height limitation         |          | •      |
| - Tandem lift assistant              |          | •      |
| - Vertical lift assistant            |          | •      |
| Camera at the boom top               | •        |        |
| Camera for revers travel             |          | •      |
| Tower cab                            |          |        |
| Tower cab                            |          |        |
| - Air conditioner                    | •        |        |
| - Forward-mounted by 2.5 m           |          | •      |
| - Additional seat                    |          | •      |
| Chassis cab                          |          |        |
| - Air conditioner                    |          | •      |
| - Roof protector                     |          | •      |

## Equipment (2)



| Section   | Standard | Option |
|---|----------|--------|
| Additional design features                              |          |        |
| Crab steering   | •        |        |
| Automatic stabiliser system                             | •        |        |
| Interlocking stabiliser beams for reduced passage width |          | •      |
| Refuelling via the chassis                              | •        |        |
| Torque-controlled cable reel                            | •        |        |
| Tower extension for high tower                          |          | •      |
| Second stairway on chassis                              |          | •      |
| Lighting  |          |        |
| - Metal halide lamps                                    | •        |        |
| - Sodium vapour lamps                                   |          | •      |
| - Prismatic lens lamps                                  |          | •*     |

| Section   | Standard | Option |
|---|----------|--------|
| Operating fluids  |          |        |
| Central lubrication system for slew ring, boom root and luffing cylinder bearings   | •        |        |
| Pinion lubrication using high-performance grease via separate central lubrication system  | •        |        |
| Central lubrication system for chassis and rope pulleys   |          | •      |
| Climate package for extreme high or low ambient temperatures  |          | •      |
| Biodegradable fluids  |          |        |
| - Approved for use with B20 biodiesel (20% biodiesel, 80% petroleum diesel)   | •*       |        |
| - Central lubrication system prefilled with<br>Biodegradable lubricants for slew ring, boom root<br>and luffing cylinder bearings |          | •*     |
| - Biodegradable hydraulic oil   |          | •*     |
| Surface treatment   |          |        |
| Customer specific livery using water-based paints   |          | •      |
| Customer logo   |          | •      |

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