

# Terex<sup>®</sup> Gottwald Mobile Harbour Cranes Versatile, Economical, Ecologically Compatible

#### Pacesetter in Mobile Harbour Cranes



- Invention of the mobile harbour crane some 60 years ago
- Some 1,800 machines installed in more than 100 countries
- Outstanding features
  - Mobility
  - Versatility
  - Flexibility
  - Reliability
  - Economy
- Efficient solution for handling
  - Containers
  - Bulk materials
  - General cargo
  - Project cargo

# Advantages of Mobile Harbour Cranes Martine TEREX



**Port Solutions** 







# For Efficient Cargo Handling



Handling rates dependent on terminal and operating conditions

- Low specific investment costs for machinery thanks to modular design
- Low investment in quay infrastructure due to reduced weight and space requirement
- Handling rates of up to 1,850 tph\*, comparable to custom-built equipment

### **Diesel-Electric Drive System**





### **Sturdy Construction**





#### **User-Friendly Smart Crane Features**

CORNE



Practically designed functions and features like:

- Radio remote control
- Load guidance function
- Automatic stabiliser system
- Hoisting height limits
- Anti-sway package
- Tandem lift assistant
- Weighing system

#### Short Delivery Lead-Times





## Harbour Crane Range







# Based on Proven Technology









# Terex<sup>®</sup> Quaymate M50 Mobile Harbour Crane A Great Mate For Small Ports

#### Typical Handling Equipment Found in Small Ports





# These machines often don't offer the necessary harbour crane design features (selection)

- No parallel load curve during luffing.
- Boom pivot point is too low because it is not above the side of the ship.
- No elevated cabs, operators have a poor view into the ship's hold.
- No sufficient drive power: The crane is too slow, the ship's berthing time is too long.
- Service life (load cycles to the point of fatigue) is poor. Harbour cranes have a calculated service life 8 –10 x longer than construction cranes.
- No torsionally stiff steel structures.
- Hoist and luffing gear are not electrically but hydraulically driven.
- Stairway to cab is located outside the tower. No weatherproof ascent for operators.

In the absence of affordable professional equipment many ports are using unsuitable cranes







# With the New Terex<sup>®</sup> Quaymate M50





# Advantages of Terex<sup>®</sup> Quaymate M50

- Terex Port Solutions (TPS) responds to the needs for an entry model for small maritime & river ports
- These ports want to unlock their potential and like to grow
- Therefore they require a machine:
  - For light to medium-duty utilization
  - With continuous-shift capability
  - With life-cycle rating to match the application
  - With cost-effective high output
  - Which complies with limited investment budgets
- Terex<sup>®</sup> Quaymate M50 crane helps smaller ports to break through



Port Solutions

The Quaymate M50 mobile harbour crane outperforms telescopic, crawler and stationary cranes and excavators by proven mobile harbour crane technology

# Quaymate M50 – At A Glance



- Impressive lifting capacity curve
  - 50 t maximum lifting capacity
  - 36 m maximum radius
- 50 m/min maximum hoisting speed
- Suitable for barges & coasters
- Handles <u>containers</u> with automatic or semiautomatic spreaders
- Handles <u>bulk and scrap</u> with motor grab
- Loads and unloads general & project cargo





### **TPS Harbour Crane Families**



# **TPS Harbour Crane Range**











## Modular Design Principle





## **Practically Oriented**





Large wheels and vertical mechanical axle compensation (+/- 250 mm) for traveling over rails and uneven ground on the quay

Ergonomically designed steps for ease of ascent

# Superstructure





# Quaymate M50 – In A Nutshell



- For handling of all kind of cargo
- Mobile, robust & compact
- Powerful lifting capacities over the entire working area
- Electrically driven, economical and 'green'
- For light to medium-duty utilization
- Cost-effective working speeds
- Life-cycle rating to match the application
- Easy to service

# There is an Opportunity for Operators to Start with the Right Tool ...











# Lifting Capacity in Tonnes



Operating modes	Heavy load	General cargo	Container*		Motor grab
			Spreader 1	Spreader 2	
Radius [m]					
11-18	50.0	40.0	35.0	32.2	20.0
19	49.0	40.0	35.0	32.2	20.0
20	45.5	40.0	35.0	32.2	20.0
21	42.0	40.0	35.0	32.2	20.0
22	39.0	39.0	35.0	31.2	20.0
23	36.6	36.6	34.3	28.8	20.0
24	34.3	34.3	32.0	26.5	20.0
25	32.2	32.2	29.9	24.4	20.0
26	30.2	30.2	27.9	22.4	20.0
27	28.5	28.5	26.2	20.7	20.0
28	27.0	27.0	24.7	19.2	20.0
29	25.5	25.5	23.2	17.7	18.8
30	24.2	24.2	21.9	16.4	17.8
31	22.9	22.9	20.6	15.1	16.9
32	21.8	21.8	19.5	14.0	16.1
33	20.7	20.7	18.4	12.9	15.3
34	19.7	19.7	17.4	11.9	14.5
35	18.8	18.8	16.5	11.0	14.0
36	17.9	17.9	15.6	10.1	13.5

Heavy load and general cargo mode on hook. Container operation below spreader.

\* Spreader 1 = Semi-automatic 40' spreader (2,3 t)

Spreader 2 = Bromma EH 12U (7,8 t)



# Do you have any questions? Feel free to ask