

3000 SERIES

E-CRANE®

QUILIBRIUM

Professional Bulk Handling Solutions

E-Crane's superior crane balance:

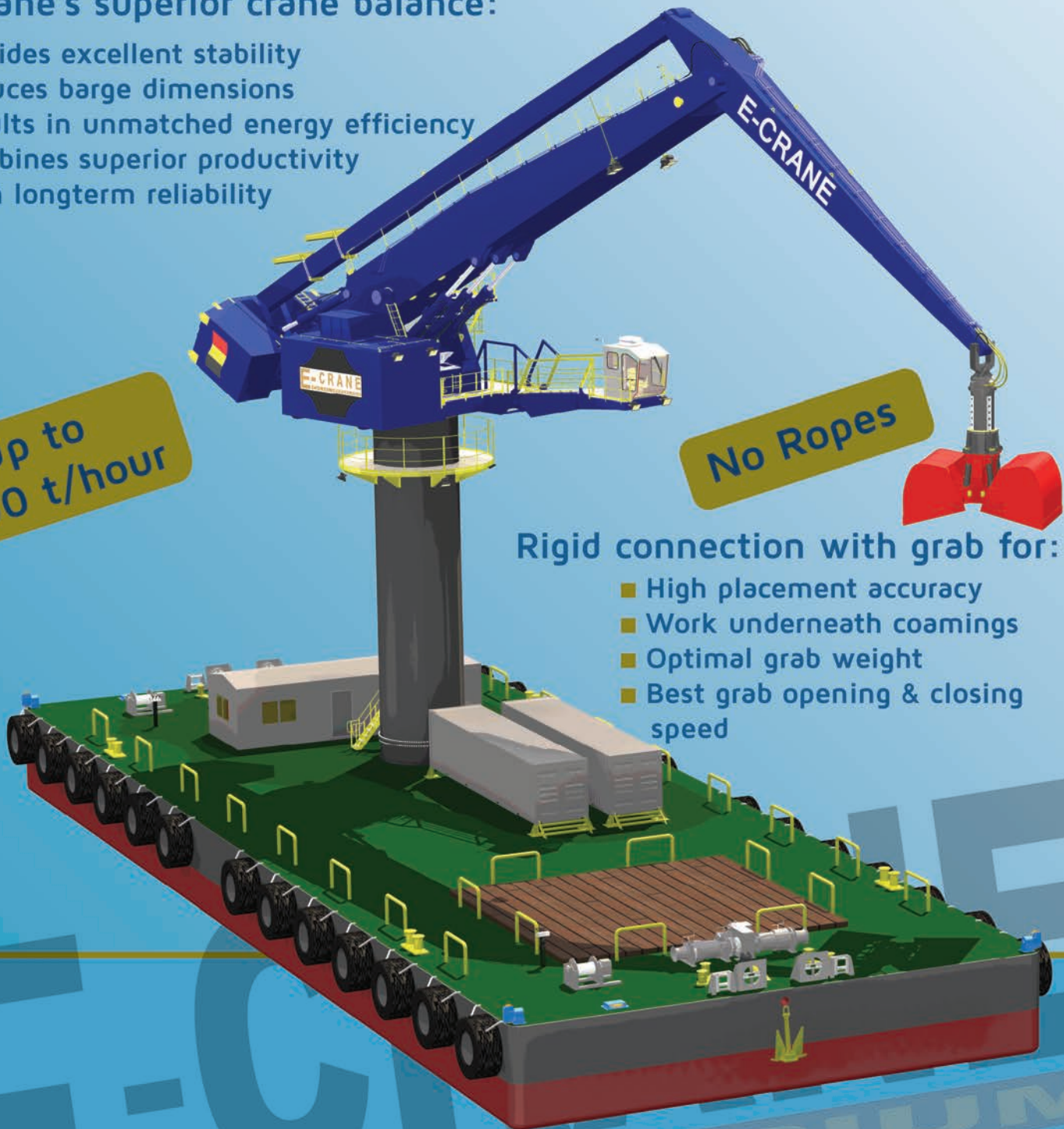
- Provides excellent stability
- Reduces barge dimensions
- Results in unmatched energy efficiency
- Combines superior productivity with longterm reliability

Up to
2000 t/hour

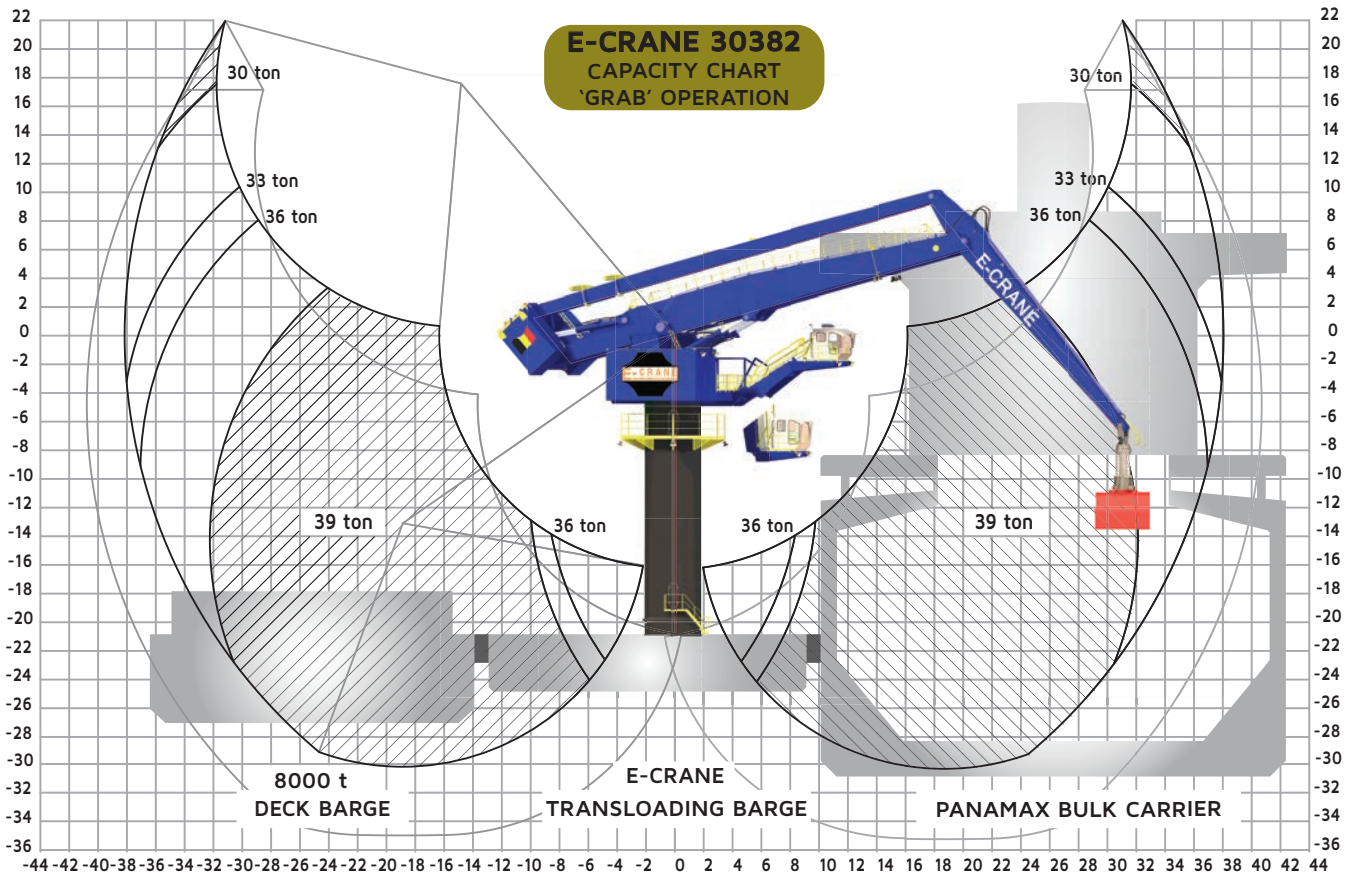
No Ropes

Rigid connection with grab for:

- High placement accuracy
- Work underneath coamings
- Optimal grab weight
- Best grab opening & closing speed



Custom Engineered for Superior Productivity



Crane Capacity

Grab Operationmax 39 t
Hook Operationmax 45 t

Main Dimensions

Boom Length23,0 m + 8,5 m
Stick Length17,0 m + 4,0 m
Main Pivot Height (typical)21 m above deck

Weight

Crane Upper (Incl. Counterweight)393 t

Working Area

Max. Outreach38,2 m
Min. Outreach2,0 m
Lifting Height52,2 m

Transloading Capacity (Grab Operation)

Crane CyclesUp to 60 cycles/hour
Best Daily ProductionUp to 30.000 t/day
Peak Performance2.000 t/hour

Crane Design Conditions

Max Heel/Trim3°/2°
Ambient Working Temperature-25 to 45°C
Max. Windspeed20 m/s (operating conditions)
.....63 m/s (parked & stowed position)

Component Selection

Main Electrical Motor

Nominal Output630 kW/844 hp – 50 Hz/60 Hz
Main Power Supply400/480 VAC, 3 phase

Load Sensing Hydraulic System

Main Implement Pumps4x 260 cc, 4x 450 l/min
Swing PumpClosed-loop, 430 l/min
Capacity Hydraulic Tank4.000 liter

Hydraulic Cylinders

5 Identical CylindersBore 330 mm/Stroke 2.950 mm

Swing Bearing

3-Row Roller BearingInternal gear

Forces & Moments

(reaction @ swing bearing)

**Standard Operations (sheltered water) acc. to LRS
Load Combination Case 1
(Hoisting Factor: 1.365 / Duty Factor: 1.200)**

Overturning Moment14.500 kNm
Vertical Force5.250 kN
Horizontal Force640 kN
Crane Swing Torque2.400 kNm

Open Sea Operations

Forces and moments are determined by the detailed design parameters of the barge in combination with the dynamic hoisting factor.