SMARTER FROM EVERY PERSPECTIVE



OPERATIONS

Reliability and performance

- Key components made in-house • Other components from industry- • High visibility in multiple
- leading suppliers Intelligent structure gives excellent stability
- Unique rope arrangement for minimal sway and safe slewing

MAINTENANCE

Easier maintenance

- Intelligent Crane Monitoring System (CMS) supports fault tracking
- Less hydraulics
- Direct access to maintenance points
- Service modularity

OPERATOR

- Safe and ergonomic
- All-in-one controls directions
- Comprehensive and adjustable information panels
- Safe and easy crane access

FINANCES

- Lowest lifecycle cost Dedication to long-term partnership
- Based on Total Cost of
- Ownership approach
- Low energy consumption High productivity with short cycle times

COMMUNITY

- **Eco-efficient**
- Less hydraulics
- Optimized equipment weight Energy-saving Konecranes drives
- Power feedback recycling to
- minimize energy consumption

OPERATIONS MANAGER Best performance

- Quick vessel turnaround
- Priority on safety
- Reduced emissions
- Support close to you











This publication is for general informational purposes only. Konecranes reserves the right at any time, without notice, to alter or discontinue the products and/or specifications referenced herein. This publication creates no warranty on the part of Konecranes, express or implied, including but not limited to any implied warranty or merchantability or fitness for a particular purpose.



INDUSTRIAL CRANES NUCLEAR CRANES PORT CRANES HEAVY-DUTY LIFT TRUCKS SERVICE MACHINE TOOL SERVICE

SHIPYARD CRANES



GOLIATH GANTRY CRANES

WINNING THE GAME WITH A BIGGER CRANE

The biggest ship block you have to lift defines the Goliath lifting capacity you need. You must make a basic decision: do you want one large Goliath, or do you want the flexibility of having two smaller Goliaths on your dry dock? The safety of two Goliaths in tandem use is an important factor to consider in this case.

Tandem use

The Konecranes design allows the cranes to be driven very close to each other when working in tandem. Our master-and-slave concept gives full control over both cranes to a single operator, from one control station. The slave crane follows every move made by the master crane, precisely and without delay, eliminating the safety hazards associated with traditional two-operator driving.



GOLIATH GANTRY CRANE

Lifting capacity	Flyweight	Welterweight	Heavyweight
Nominal capacity	250 – 700 tons	700 – 1200 tons	1200 – 2200 tons
Upper trolley total	55 – 100%	55 – 100%	55 – 100%
Upper trolley load unbalance	50 – 100%	50 - 100%	50 – 100%
Lower trolley	60 - 100%	60 - 100%	60 - 100%
Auxiliary hoist	20 – 50 tons	20 – 50 tons	20 – 50 tons
Service hoist	6 – 10 tons	6 – 10 tons	6 – 10 tons
Product concept and features			
Recommended girder concept	Double	Single	Single
Load rotation	Option	Standard	Standard
Speed change reducers	Option	Option	Standard
Elevator	Standard	Standard	Standard
Cabin	Leg-mounted	Trolley-mounted	Trolley-mounted
Main dimensions			
Span	60 – 230 m	50 – 230 m	50 – 230 m
Lifting height (maximum)	Up to 90 m	Up to 120 m	Up to 120 m
Linfitng height (nominal)	Up to 82 m	Up to 112 m	Up to 112 m
Hook traverse	2 m	2 – 8 m	2 – 8 m
Buffer to buffer	Appr. 30 m	Appr. 46 m	Appr. 58 m
Typical speeds			
Gantry travel	30 m/min	30 m/min	30 m/min
Upper trolley traversing	30 m/min		
Upper trolley hoisting /no load	10 – 20 m/min	10 – 20 m/min	10 – 20 m/min
Upper trolley hoisting /with load	6 – 12 m/min	3 – 8 m/min	3 – 6 m/min
Lower trolley traversing / with load	30 m/min	30 m/min	30 m/min
Lower trolley hoisting /no load	10 – 20 m/min	10 – 20 m/min	10 – 20 m/min
Lower trolley hoisting /with load	6 – 12 m/min	3 – 8 m/min	3 – 6 m/min
Auxiliary hoist speed	10 – 40 m/min	10 – 40 m/min	10 – 40 m/min
Service hoist	5 – 25 m/min	5 – 25 m/min	5 – 25 m/min
Electrical systems			
Crane power supply	Cable reel	Cable reel	Cable reel
Trolley power feed	Festoon/Cable track	Festoon/Cable track	Festoon/Cable track
Drive and control system	Konecranes AC	Konecranes AC	Konecranes AC
Maintenance			
Crane Monitoring System	Standard	Standard	Standard
Remote diagnostics	Option	Option	Option

