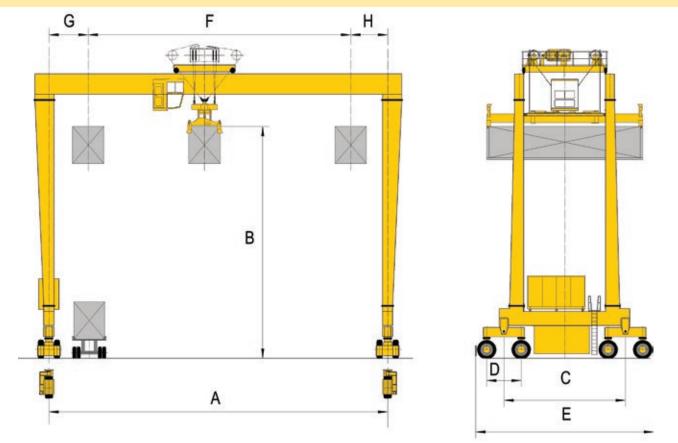
Technical Description Rubber Tyre Gantry Crane





Technical Data



RTG Model Designation

/5/4 WS					
		AC drive			
		4 wheels per corner			
		1 over 5 high stacking			
	>	7 containers wide + truck lane			

RTG Model Range*

A Typical gantry span	20.8 m for 5 wide + truck lane
	23.6 m for 6 wide + truck lane
	26.5 m for 7 wide + truck lane
	29.4 m for 8 wide + truck lane
	32.3 m for 9 wide + truck lane
	37.7 m for 10 wide + truck lane
B Lifting Heights	12.3 m for 1 over 3
	15.2 m for 1 over 4
	18.2 m for 1 over 5
	21 m for 1 over 6
SWL	40.6 - 50 t single 50 - 60 t twin
C Travel wheel gauge	9.2 m
D Rocker length	2.5 m
E Length over travel guards	13.3 m for 4 wheels per corner
	13.7 m for 2 wheels per corner
F Trolley travel	Gantry span minus end approach
G Trolley end approach	2.4 m
H Trolley end approach	2.25 m

Typical Design Parameters

Classification according to F.E.M. In service wind speed Out of service wind speed Maximum yard slope Self weight (model dependant) U7-Q2-A7 (Single lift) 72 km/h (20 m/s) 151.2 km/h (42 m/s) 1:100 in either direction 116 t to 138 t

Working Speeds**

5 .	
Hoisting with no load	56 m/min
Hoisting with rated load	28 m/min
Trolley travel (with and without load)	70 m/min
Gantry travel without load	130 m/min
Gantry travel with rated load	70 m/min
Stack transfer without load	70 m/min
**Alternative speeds also available	

Wheel Dimensions and Loading

18.00 - 25/21.00 - 25
14.00 - 24/16.00 - 25
24.5 t/34.8 t
12.2 t/17.2 t

Generator Set

Engine type	Volvo/Cummins
Alternator type	Marelli/Stamford
Diesel fuel tank capacity	1000 /1500
Operating voltage/frequency	480 V/60 Hz
Generator set rating, continuous	400 kVA

Drive Power

Hoist unit (40.6 t)	1 X 190 kW AC
Trolley unit	2 X 18 kW AC
Gantry travel unit (8 wheels)	4 X 35 kW AC
Gantry travel unit (16 wheels)	4 X 35 kW AC

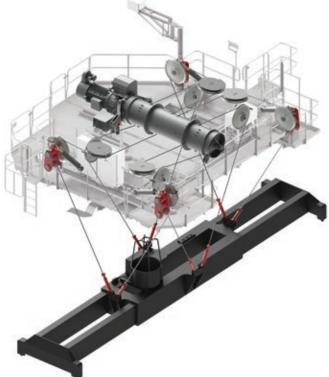
Drive Power

Switchgear/control system designed and built by Liebherr using well proven robust components and CMS system in accordance with IEC 61131

*Other features and dimensions also available

Liebherr Anti-Sway System (Eight Rope Reeving)





Advantages by Design

- Minimal spreader positioning times.
- No-sway in hoist, trolley and travel directions.
- Anti-skew.
- Trim and skew spreader positioning.
- No additional ropes or devices necessary.

- No head block Reduced rope load and tare weight.
- Lower energy consumption.
- All electric spreader Less maintenance.
- Significant increase in productivity when compared with alternative designs. Minimal spreader positioning times.

Gantry Travel System

Advantages by Design

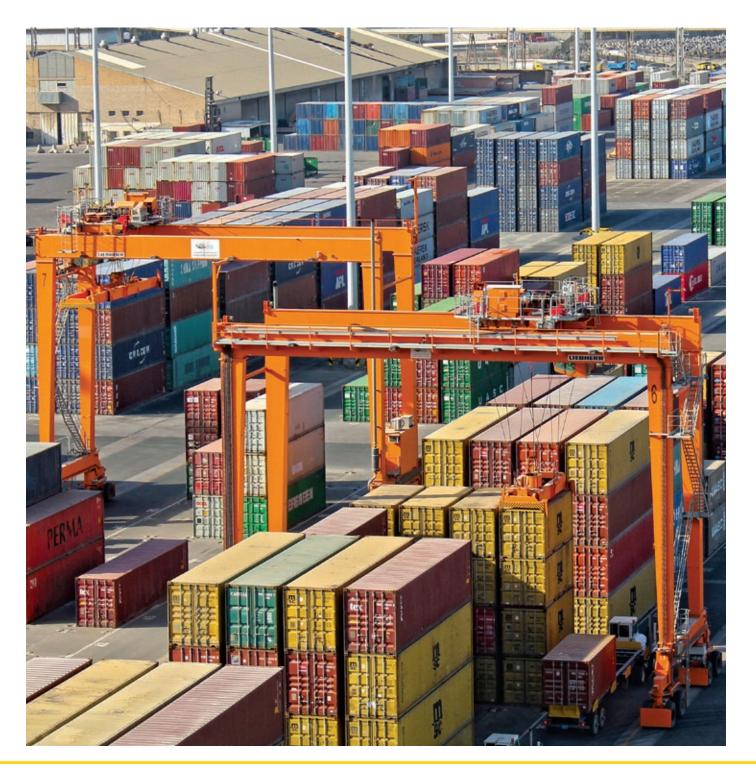
- Direct driven No chain drive
- Gantry travel with load
- Reduced tyre wear with differential axles allowing wheels to rotate during 90° turn.
- 4 Electric motors, 1 per corner



Liebherr Rubber Tyre Gantry Crane

- Liebherr reeving system: Sway prevention, not sway correction.
- Electric (gantry align) steering.
- Rigid robust structure Optimum for automation. Optional DGPS auto steering and container positioning.
- Direct gearbox driven travel systems.
- Separate drives for hoist, travel and trolley, with no need for side shift on the spreader. Allows superior fine positioning with simultaneous motion.
- Worldwide Liebherr service network.

- Extensive training (in-house and on-site).
- Purpose built state-of-the-art design and production facilities located in Ireland since 1958.
- Highly skilled and experienced employees with expertise inhouse for after sales service.
- Responsibility with Liebherr, eliminating interface and compatibility problems (i.e. structural, mechanical and electrical design, production, commissioning and service).



Liebherr Container Cranes Ltd. Fossa, Killarney, Co. Kerry, Ireland Tel.: +353 64 66 70 200 sales.lcc@liebherr.com facebook.com/liebherrmaritime www.liebherr.com