

# Container Lift Port Equipment Ltd

Web: [www.containerlift.uk.net](http://www.containerlift.uk.net)

## Scotland Address:

Speyside  
Northhall Road  
Markinch  
Fife KY7 6JR

T: (44) 1592 759678  
F: (44) 1592 612963  
E: [bob@containerlift.uk.net](mailto:bob@containerlift.uk.net)

## England Address:

27 Bruce Crescent  
Intake  
Doncaster DN2 5JL  
South Yorkshire

T: (44) 1302 322282  
F: (44) 1302 730406  
E: [george@containerlift.uk.net](mailto:george@containerlift.uk.net)

---



## Harbour Mobile Cranes, HMK 170 HG

### Technical Details

#### Dimensions

Length of undercarriage	14,1 m
Width of undercarriage	5,3 m
With swung supporting pads	7,9 m
Support base	10,0 m x 11,5 m
Size of supporting pads	1,2 m x 1,8 m
Distance from axle centre to outside of counterweight	5,8 m

# Container Lift Port Equipment Ltd

Web: [www.containerlift.uk.net](http://www.containerlift.uk.net)

## Scotland Address:

Speyside  
Northhall Road  
Markinch  
Fife KY7 6JR

T: (44) 1592 759678  
F: (44) 1592 612963  
E: [bob@containerlift.uk.net](mailto:bob@containerlift.uk.net)

## England Address:

27 Bruce Crescent  
Intake  
Doncaster DN2 5JL  
South Yorkshire

T: (44) 1302 322282  
F: (44) 1302 730406  
E: [george@containerlift.uk.net](mailto:george@containerlift.uk.net)

Height of boom fulcrum	appr. 14,7 m
Eye level; tower cabin	appr. 17,0 m
Framing height of superstructure	appr. 6,2 m

### Working area

Max. radius	40,0 m
Min. radius	10,0 m

### Hoisting height

Above quay	30,0 m
Below quay	15,0 m

### Weights

Total weight of crane (including counterweight)	appr. 220,0 t
Counterweight	appr. 65,0 t

### Requirements on Quay

	Degree (Beaufort)	Pressure	Speed
Crane travelling	10	42,0 kg/m <sup>2</sup>	24,5 – 28,4 m/s
Supported crane into operation	9	30,0 kg/m <sup>2</sup>	20,8 – 24,0 m/s
Supported crane out of operation	14	120,0 kg/m <sup>2</sup>	41,5 – 46,1 m/s

### Utilisation of Tipping Moment

Normal operation	66,6 %
Grab operation	50,0 %

# Container Lift Port Equipment Ltd

Web: [www.containerlift.uk.net](http://www.containerlift.uk.net)

## Scotland Address:

Speyside  
Northhall Road  
Markinch  
Fife KY7 6JR

T: (44) 1592 759678  
F: (44) 1592 612963  
E: [bob@containerlift.uk.net](mailto:bob@containerlift.uk.net)

## England Address:

27 Bruce Crescent  
Intake  
Doncaster DN2 5JL  
South Yorkshire

T: (44) 1302 322282  
F: (44) 1302 730406  
E: [george@containerlift.uk.net](mailto:george@containerlift.uk.net)

---

## Diesel engine

Make	GM Detroit
Type	8V 92 TI
Manufacture design	8 Zyl. V
Combustion system	Diesel
Cooling system	Water
Power	450kW/1800 U/min
Consumption	ca. 217 g/kWh

## Fuel tank

Tank capacity	appr. 2000 ltr.
Possible operating hours with full tank	> 45 hours

## Generator

Manufacturer	EME
Power	35 kVA

## Speeds

	Load	Speed
Hoisting / Lowering		
Normal operation	43t	0 – 30 m/min
Grab operation, 4-rope config.	34t	0 – 37 m/min
	20t	0 – 63 m/min
	10t	0 – 90 m/min

## Slewing

Slewing speed of the superstructure under hook operation	0 – 1,4 U/min
Max. Speed boom head	180 m/min

## Swing

Normal operation	0 – 45 m/min
------------------	--------------

## Travelling

Travelling speed	0 – 80 m/min	
Inclination in longitudinal direction, during travelling	max. 6%	
Inclination in transverse direction, during travelling	max. 2,5 %	
Turning radius	Inner	max. 9,4 m
	Outer	max. 14,5 m

**Scotland Address:**

Speyside  
Northhall Road  
Markinch  
Fife KY7 6JR

T: (44) 1592 759678  
F: (44) 1592 612963  
E: [bob@containerlift.uk.net](mailto:bob@containerlift.uk.net)

**England Address:**

27 Bruce Crescent  
Intake  
Doncaster DN2 5JL  
South Yorkshire

T: (44) 1302 322282  
F: (44) 1302 730406  
E: [george@containerlift.uk.net](mailto:george@containerlift.uk.net)

## LOAD CHART

Radius	Capacities (t)		
	Normal load	Special load	Grab operation
m	(t)	(t)	(t)
10	43,0	43,0	34,0
11	43,0	43,0	34,0
12	43,0	43,0	34,0
13	43,0	43,0	34,0
14	43,0	43,0	34,0
15	43,0	43,0	34,0
16	43,0	43,0	34,0
17	43,0	43,0	34,0
18	43,0	43,0	34,0
19	43,0	43,0	33,0
20	43,0	43,0	32,0
21	43,0	43,0	31,0
22	43,0	43,0	29,8
23	42,6	43,0	28,6
24	39,9	43,0	27,4
25	37,5	41,5	26,2
26	35,4	39,1	25,0
27	33,4	37,0	24,0
28	31,7	35,0	23,0
29	30,0	33,2	22,0
30	28,5	31,5	21,0
31	27,1	30,0	20,0
32	25,8	28,6	19,6
33	24,6	27,2	18,7
34	23,5	26,0	17,9
35	22,5	24,9	17,1
36	21,5	23,8	16,3
37	20,6	22,8	15,7
38	19,8	21,8	15,0
39	18,8	20,8	14,3
40	17,8	19,8	13,5

The load values mean:

1. Normal load; heavy load; special load; grab = load on ropes
2. Container service = load into spreader operation