



# CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate is issued in accordance with RIS-1530-PLT Issue 4

**NAME OF VEHICLE ACCEPTANCE BODY**

*Interfleet Technology Ltd*

**ACCREDITATION CODE**

**IF**

Vehicle Class / Description

910/Rail-Ability/JCB JS175W/9A

Vehicle Owner

A P Webb Plant Hire Ltd

Issue Date

1 April, 2014

Expiry Date

1 April, 2021

Vehicle Number(s)

99709\_910003-1

First Of Class

99709\_910010-6 on Engineering Acceptance Certificate IF/0201/14 against RIS-1530-PLT Issue 4.

**Authorised by:**

Alex McCristal

*Alex McCristal*  
*Interfleet Technology Ltd*

**OFFICIAL STAMP**



Reason for issue and Scope of Work

Certification of upgraded JCB JS175W Road Rail Vehicle.

Manufacturer Serial No. 885213 / Owner Fleet No. RAIL060.

Assessed for compliance with RIS-1530-PLT Issue 4.

Expiry date conforms to the requirements of RIS-1530-PLT, Issue 4.

Deviations associated with this certificate

None

Previous Certificate Number

No previous Engineering Acceptance Certificate issued against RIS-1530-PLT Issue 4.

Previous Engineering Acceptance Certificate IF/0271/11.

Customer Copy

Certificate Number: IF/0202/14

### Maintenance Plan Details

JCB JS175W Operators Handbook No.9801/6980; Issue 4; Dated 01/11/2001.

Rail-Ability JCB JS Hybrid Road/Rail Excavator Routine Maintenance Schedule; JCBJSRMP001; Issue 01; Dated 28 March 2014.

Rail-Ability JCB JS175 Road/Rail Wheeled Excavator Rail Operations & Emergency Recovery Procedures; JS-002; Issue 1; Dated 24/03/2014.

### Limitations of Use

1. The vehicle shall only operate inside possessions.
2. In travelling mode, the vehicle is within W6a gauge and exception as permitted by RIS-1530-PLT. Mirrors must be folded in.
3. When working the vehicle may be out of W6a gauge.  
Minimum underside height of tail swing above rail is 1445mm.  
Maximum tail swing gauge exceedance is 746mm (i.e. 1438mm from the running edge of the rail).  
A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
4. Excavator boom, load and stabilisers can infringe W6a gauge throughout their working envelope.
5. Vehicle shall not on/off track, travel or work on live conductor-rail lines.
6. The vehicle shall not on/off track, travel or work under live OLE, except:
  - > It may on/off track on an approved RRAP, or it may travel under live OLE, when used in conjunction with a safe system of work determined and authorised by taking guidance from the requirements of GE/RT8024, and provided the boom/dipper is in the travel position.
  - > Minimum OLE wire height of 4.165m.
7. Except for the cab, when the vehicle is under live OLE access is NOT permitted onto any surfaces higher than 1.4m above rail.
8. Vehicle shall not on/off track or work if adjacent line or lines are open to traffic, unless otherwise permitted by a site-specific and Network Rail approved safe system of work.
9. Vehicle will not activate train operated points.
10. Vehicle shall not travel on:
  - Track cants greater than 200mm.
  - Track gradients greater than 1:25.
  - Curve less than 80m.
11. Vehicle shall not work on:
  - Track cants greater than 150mm.
  - Track gradients greater than 1:25.
  - Curve less than 80m.
12. When reversing, the vehicle shall only proceed at walking speed with the driver utilising the CCTV and/or ground staff, until the superstructure/boom can be slewed to face the direction of travel.
13. For access/egress, the vehicle shall only operate with the door to the cab adjacent to a cess or a line closed to all train movements, or the safe system of work takes account of adequate clearances to the adjacent line or lines.
14. Setting up and packing away - from inside cab.
15. Vehicle shall not be on/off tracked on cants greater than 100mm.
16. Vehicle shall not be on/off tracked on gradients greater than 1:25.
17. For on/off tracking, a site-specific work plan shall be used taking account of the requirements Rail-Ability Operating Manual JS-002 and the applicable module of Network Rail Infrastructure Plant Manual NR/PLANT/0200.
18. The RCI shall be switched on at all times, unless in digging mode.
19. The RCI has a tandem lifting mode.
20. It is permitted to tow and/or propel rail trailers with compatible coupling and brake systems:
  - Air brakes - supply pressure for park brake release is 9bar, and for service brake is 0-9bar.
  - Trailers with park and service brakes and air reservoirs. Maximum weight is 70tonnes / 3 trailers.The maximum towed and/or propelled weight may have to be reduced where the railhead conditions for

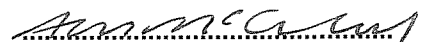
adhesion and/or running gradient may affect the safe traction performance of the vehicle.

### Supplementary Information

1. The RRV Type 9A is a Rail-Ability hydrostatically driven rail-conversion of JCB road excavator, with 1.8m stub, 3.4m artic and 2.1m dipper.
2. Manufacturer Serial No. 885213. A.P.Webb Fleet No. Rail 060.
3. The vehicle is approved to carry 2 persons seated in the drivers cab.
4. It operates on rail in high-mode only and only with solid rubber road tyre.  
It has no load carrying area.
5. The Stabilisers are interlocked out-of-use in rail travel mode.
6. Gross vehicle weight is 27tonnes.
7. Maximum speeds travelling on rail not to exceed:-
  - 20mph plain line;
  - 5mph switches and crossings;
  - 5mph raised check/guard rails;
  - 10mph towing/propelling;
  - 5mph emergency recovery.
8. Where an attachment is known to have a significant adverse affect on the RRV stability, the RCI shall always be in 'Lift Mode' when using the attachment.
9. Dipper eye lifting point SWL: 16T  
Auxiliary crowd ram lifting point SWL: 5T
10. RCI information:
  - Fitted with a Prolec Rated Capacity Indicator (RCI);
  - Model: Prolec Liftwatch Rail;
  - Hardware: 002313-001;
  - Software: V1.00.07.00;
  - Duty chart reference: Rail 060; 885213;
  - This vehicle has Normal and Tandem Lifting Modes.

Authorised by:

Alex McCristal




Sample

# RATED LIFT CAPACITY CHART

# RIS 1530


Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Available in Road, Rail, & Cant

Duty	Config	Sector	Osc Axle	Safety
<b>Stabs</b>	<b>ALL</b>	<b>360°</b>		<b>75%</b>

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT 8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.43a	4.64a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.50a	4.27a	3.49a	-	-	-	-
5.0	-	-	-	7.48a	7.51b	6.56b	5.80b	3.72a	3.60a	-	-	-
4.0	-	12.25b	10.09b	8.54b	7.38b	6.48b	5.75b	4.12a	3.88a	3.95a	-	-
3.0	-	11.91b	9.84b	8.37b	7.26b	6.40b	5.71b	4.18a	4.16a	3.44a	3.63a	-
2.0	8.74a	8.81a	9.70a	8.28b	7.20b	6.36b	5.70b	3.60a	4.26a	4.26a	3.78a	-
1.0	6.62a	6.86a	7.38a	8.29b	7.22b	6.66b	6.13a	5.22a	4.54a	4.16a	3.94a	-
0.0	6.40a	6.50a	6.85a	10.41a	9.29b	8.70b	4.99a	4.93a	5.82a	4.44a	-	-
-1.0	6.51a	7.36a	10.39a	13.02b	11.55b	8.98a	6.49a	5.26a	5.64a	5.13a	-	-
-2.0	10.49a	12.68a	13.31b	12.18b	11.08b	9.49a	7.38a	6.70a	5.17a	-	-	-
-3.0	14.00b	11.41b	10.88b	10.11b	9.02b	8.18b	6.96b	-	-	-	-	-
-4.0	14.48b	11.31b	9.26b	7.87b	-	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>Stabs</b>	<b>ALL</b>	<b>360°</b>		<b>75%</b>

### RADIUS

MAXIMUM LOADS


	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT 8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.93a	-	-	-	-	-	-
6.0	-	-	-	-	6.76a	6.73a	6.46a	5.44a	-	-	-	-
5.0	-	-	-	7.51a	7.55a	7.49a	7.30a	6.84a	5.95a	-	-	-
4.0	-	12.73b	12.77b	10.94r	9.65r	8.68r	7.99r	7.45r	6.88r	5.83a	-	-
3.0	-	12.85b	13.34b	12.96r	10.87r	9.54r	8.58r	7.89b	7.40b	6.64r	4.23a	-
2.0	11.09a	13.89b	14.03b	13.74b	12.31r	10.53b	9.32r	8.46r	7.80r	7.14r	5.36a	-
1.0	16.24b	15.89b	15.34b	14.37b	12.95b	11.35b	10.00b	9.02b	8.25r	7.53r	5.25a	-
0.0	18.83a	18.78b	16.94b	14.99b	13.02b	11.51b	10.32b	9.35b	8.55b	7.60a	-	-
-1.0	20.00	20.00	17.82b	15.12b	13.13b	11.60b	10.41b	9.46b	8.52b	6.02a	-	-
-2.0	20.00	20.00	18.08b	15.35b	13.37b	11.85b	10.39b	8.86b	6.53a	-	-	-
-3.0	20.00	20.00	18.08b	14.99b	12.51b	10.19b	7.75b	-	-	-	-	-
-4.0	19.88b	15.62b	11.73b	8.61b	-	-	-	-	-	-	-	-

<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530


Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>1aU</b>	<b>ROAD</b>	+/- 5° Over Osc End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>1aU</b>	<b>ROAD</b>	+/- 5° Over Osc End		<b>75%</b>

### RADIUS

MAXIMUM LOADS


HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-

<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	2 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530


Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>1aL</b>	<b>ROAD</b>	+/- 5° Over Osc End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-	
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-	
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-	
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-	
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-	
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-	
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-	
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-	
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-	
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-	
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-	
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-	

Duty	Config	Sector	Osc Axle	Safety
<b>1aL</b>	<b>ROAD</b>	+/- 5° Over Osc End		<b>75%</b>

### RADIUS

MAXIMUM LOADS


HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-	
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-	
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-	
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-	
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-	
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-	
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-	
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-	
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-	
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-	
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-	
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-	

<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	3 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530


Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>1bU</b>	<b>ROAD</b>	+/- 5° - +/- 45° Over Osc End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.17	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.07	5.12	3.86a	3.77	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.05	5.86	4.97	3.66a	3.73	3.26	-	-
3.0	-	11.96b	9.89b	8.10	6.64	5.57	4.77	3.90a	3.63	3.21	2.84	-
2.0	9.56a	9.93a	9.75b	7.64	6.25	5.29	4.56	3.56a	3.52	3.13	2.80	-
1.0	6.82a	7.23a	7.83a	7.30	5.98	5.08	4.39	3.86	3.42	3.06	2.76	-
0.0	6.50a	6.61a	6.86a	7.16	5.87	4.97	4.30	3.77	3.36	3.02	2.74	-
-1.0	6.53a	6.47a	9.31	7.19	5.85	4.93	4.26	3.75	3.34	3.02	-	-
-2.0	9.36a	11.50a	9.45	7.28	5.92	4.98	4.30	3.78	3.39	-	-	-
-3.0	13.94b	12.32b	9.67	7.45	6.06	5.10	4.42	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.35	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>1bU</b>	<b>ROAD</b>	+/- 5° - +/- 45° Over Osc End		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.25	5.20	4.35	-	-	-	-
5.0	-	-	-	7.12a	7.26a	6.21	5.28	4.48	3.79	-	-	-
4.0	-	13.08b	11.43	8.94	7.31	6.12	5.24	4.51	3.84	3.28	-	-
3.0	-	12.44b	11.07b	8.74	7.17	6.03	5.19	4.50	3.83	3.29	2.84	-
2.0	10.00a	13.67b	10.90	8.60	7.08	5.97	5.17	4.44	3.79	3.25	2.82	-
1.0	15.32a	14.82	10.89	8.59	7.07	5.99	5.11	4.32	3.70	3.20	2.78	-
0.0	18.01a	15.03	10.89	8.51	6.92	5.83	4.94	4.19	3.58	3.12	2.74	-
-1.0	20.00	14.77	10.62	8.29	6.75	5.66	4.74	4.02	3.49	3.06	-	-
-2.0	20.00	14.65	10.54	8.21	6.58	5.44	4.56	3.94	3.43	-	-	-
-3.0	20.00	14.75	10.39	8.01	6.38	5.31	4.53	-	-	-	-	-
-4.0	20.00	14.65	10.39	7.96	6.43	-	-	-	-	-	-	-


<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	4 of 53



# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1bL</b>	<b>ROAD</b>	+/- 5° - +/- 45° Over Osc End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1bL</b>	<b>ROAD</b>	+/- 5° - +/- 45° Over Osc End		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	5 of 53

# RATED LIFT CAPACITY CHART

RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1cU</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>75%</b>

**RADIUS**

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.88	4.26a	-	-	-	-	-	-	-
6.0	-	-	-	-	5.92	4.93	4.09a	3.53	-	-	-	-	-
5.0	-	-	-	7.06	5.78	4.84	4.13	3.55	3.07	-	-	-	-
4.0	-	11.07	8.31	6.66	5.50	4.65	3.99	3.46	3.03	2.66	-	-	-
3.0	-	10.65	7.78	6.10	5.14	4.39	3.81	3.33	2.94	2.61	2.31	-	-
2.0	9.56a	9.93a	7.33	5.70	4.79	4.14	3.61	3.19	2.83	2.54	2.27	-	-
1.0	6.82a	7.23a	6.90	5.41	4.55	3.95	3.46	3.08	2.74	2.47	2.24	-	-
0.0	6.50a	6.61a	6.62	5.29	4.45	3.84	3.37	2.99	2.69	2.43	2.22	-	-
-1.0	6.53a	6.47a	6.62	5.31	4.44	3.81	3.34	2.97	2.67	2.43	-	-	-
-2.0	9.36a	8.92	6.73	5.40	4.50	3.85	3.37	3.00	2.72	-	-	-	-
-3.0	13.29	9.14	6.91	5.54	4.62	3.97	3.49	-	-	-	-	-	-
-4.0	13.79	9.52	7.23	5.81	4.88	-	-	-	-	-	-	-	-

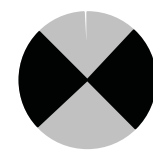


Duty	Config	Sector	Osc Axle	Safety
<b>1cU</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>75%</b>

**RADIUS**

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.89	4.83	-	-	-	-	-	-	-
6.0	-	-	-	-	5.94	5.00	4.21	3.53	-	-	-	-	-
5.0	-	-	-	7.09	5.86	4.97	4.27	3.65	3.09	-	-	-	-
4.0	-	11.18	8.55	6.89	5.73	4.88	4.23	3.68	3.14	2.68	-	-	-
3.0	-	10.73	8.26	6.70	5.60	4.80	4.19	3.68	3.13	2.68	2.31	-	-
2.0	10.00a	10.53	8.11	6.58	5.53	4.75	4.17	3.61	3.09	2.65	2.29	-	-
1.0	15.00	10.54	8.10	6.57	5.52	4.77	4.12	3.52	3.00	2.60	2.26	-	-
0.0	14.48	10.28	7.93	6.45	5.39	4.62	3.97	3.38	2.89	2.53	2.22	-	-
-1.0	14.20	10.01	7.70	6.26	5.24	4.47	3.78	3.22	2.81	2.47	-	-	-
-2.0	14.16	9.92	7.64	6.19	5.09	4.27	3.61	3.15	2.75	-	-	-	-
-3.0	14.38	10.00	7.52	6.02	4.91	4.15	3.58	-	-	-	-	-	-
-4.0	14.30	9.93	7.52	5.98	4.95	-	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	6 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1cL</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-

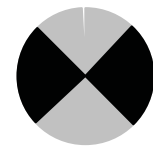


Duty	Config	Sector	Osc Axle	Safety
<b>1cL</b>	<b>ROAD</b>	+/- 45° - +/- 135°		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.57	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	7 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1dU</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1dU</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	8 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1dL</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>1dL</b>	<b>ROAD</b>	+/- 135° - +/- 160° Over Fixed End		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-




<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	9 of 53

# RATED LIFT CAPACITY CHART


# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>1eU</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>75%</b>

**RADIUS**

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
<b>MINIMUM LOADS</b>	8.0	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	6.01a	4.26a	-	-	-	-	-	-
	6.0	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
	5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-
	4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-
	3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a
	2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a
	1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a
	0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11 a	4.04a
	-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-
	-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-
	-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-
	-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>1eU</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>75%</b>

**RADIUS**


	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
<b>MAXIMUM LOADS</b>	8.0	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	6.35a	5.22a	-	-	-	-	-	-
	6.0	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
	5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-
	4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-
	3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a
	2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a
	1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a
	0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a
	-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-
	-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-
	-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-
	-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-

<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple


Duty	Config	Sector	Osc Axle	Safety
<b>1eL</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>75%</b>

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.01a	4.26a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.28a	4.09a	4.15a	-	-	-	-
5.0	-	-	-	7.09a	7.23a	6.58b	5.80b	3.86a	4.08a	-	-	-
4.0	-	12.35b	10.15b	8.58b	7.41b	6.50b	5.76b	3.66a	4.15a	3.89a	-	-
3.0	-	11.96b	9.89b	8.40b	7.28b	6.41b	5.71b	3.90a	3.81a	3.90a	3.54a	-
2.0	9.56a	9.93a	9.75b	8.29b	7.21b	6.36b	5.70b	3.56a	4.03a	3.88a	4.10a	-
1.0	6.82a	7.23a	7.83a	8.28b	7.20b	6.38b	6.34a	3.97a	4.33a	3.75a	3.68a	-
0.0	6.50a	6.61a	6.86a	9.52a	8.86b	8.22b	5.80a	5.00a	5.49a	4.11a	4.04a	-
-1.0	6.53a	6.47a	9.34a	12.48b	11.09b	7.71a	6.60a	6.91a	5.19a	4.24a	-	-
-2.0	9.36a	11.50a	13.83b	12.74b	11.50b	8.55a	9.23a	6.04a	6.16a	-	-	-
-3.0	13.94b	12.32b	11.55b	10.63b	9.67b	8.74b	7.41a	-	-	-	-	-
-4.0	14.33b	11.18b	9.15b	7.74b	6.73b	-	-	-	-	-	-	-

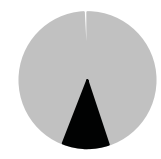


Duty	Config	Sector	Osc Axle	Safety
<b>1eL</b>	<b>ROAD</b>	+/- 20° Over Fixed End		<b>75%</b>

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	5.22a	-	-	-	-	-	-
6.0	-	-	-	-	6.69a	6.63a	6.23a	4.60a	-	-	-	-
5.0	-	-	-	7.12a	7.26a	7.24a	7.07a	6.62a	5.35a	-	-	-
4.0	-	13.08b	12.12b	10.59b	9.42r	8.54b	7.85r	7.36r	6.75r	5.33a	-	-
3.0	-	12.44b	13.05b	12.43r	10.55r	9.31r	8.43r	7.77r	7.28r	6.46r	3.54a	-
2.0	10.00a	13.67b	13.88b	13.66b	11.99b	10.31b	9.16b	8.32r	7.71r	7.09a	5.42a	-
1.0	15.32a	15.45b	14.92b	14.20a	12.88b	11.20b	9.87b	8.90b	8.17b	7.52r	5.53a	-
0.0	18.01a	18.08b	16.61a	14.91b	13.01b	11.50b	10.31b	9.31b	8.52b	7.63r	4.04a	-
-1.0	20.00	20.00	17.78b	15.08b	13.10b	11.58b	10.38b	9.42b	8.60b	7.07r	-	-
-2.0	20.00	20.00	18.00b	15.28b	13.28b	11.78b	10.53b	9.21b	7.48b	-	-	-
-3.0	20.00	20.00	18.34b	15.46b	13.02b	11.00b	8.82b	-	-	-	-	-
-4.0	20.00	18.05b	14.28b	11.05b	7.98b	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

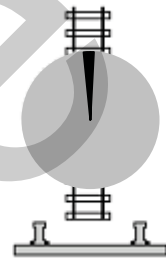
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2aU</b>	<b>RAIL</b>	<b>+/- 5° Over Osc End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT 8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

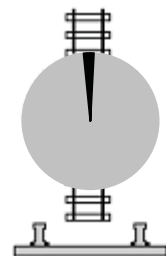


Duty	Config	Sector	Osc Axle	Safety
<b>2aU</b>	<b>RAIL</b>	<b>+/- 5° Over Osc End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT 8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

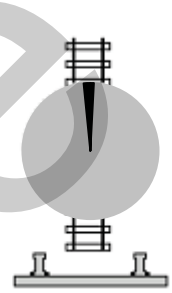
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2aL</b>	<b>RAIL</b>	<b>+/- 5° Over Osc End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

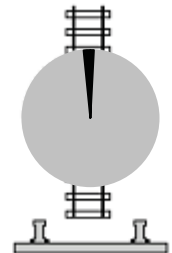


Duty	Config	Sector	Osc Axle	Safety
<b>2aL</b>	<b>RAIL</b>	<b>+/- 5° Over Osc End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	13 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

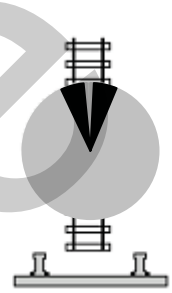
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2bU</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	5.59	3.56a	3.96	-	-	-	-
5.0	-	-	-	7.36a	6.64	5.48	4.62	3.95	3.41	-	-	-
4.0	-	12.28b	10.10b	7.84	6.33	5.27	4.47	3.86	3.37	2.95	-	-
3.0	-	11.92b	9.64	7.25	5.95	5.01	4.29	3.73	3.27	2.90	2.57	-
2.0	8.77a	9.32a	9.13	6.86	5.61	4.75	4.11	3.59	3.18	2.83	2.53	-
1.0	6.63a	6.97a	7.59a	6.58	5.40	4.59	3.96	3.48	3.09	2.77	2.49	-
0.0	6.40a	6.55a	6.93a	6.50	5.31	4.50	3.89	3.42	3.04	2.74	-	-
-1.0	6.53a	7.02a	8.47	6.53	5.31	4.48	3.87	3.40	3.03	2.75	-	-
-2.0	10.30a	12.17	8.60	6.63	5.38	4.53	3.91	3.44	3.09	-	-	-
-3.0	13.99b	11.88b	8.81	6.80	5.52	4.66	4.04	-	-	-	-	-
-4.0	14.43b	11.27b	9.21	7.14	-	-	-	-	-	-	-	-

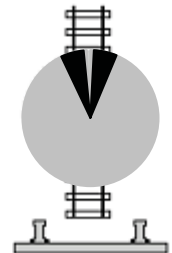


Duty	Config	Sector	Osc Axle	Safety
<b>2bU</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.53	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	5.66	4.74	3.97	-	-	-	-
5.0	-	-	-	7.39a	6.74	5.62	4.78	4.07	3.45	-	-	-
4.0	-	12.76b	10.43	8.13	6.60	5.53	4.74	4.09	3.49	2.98	-	-
3.0	-	12.64b	10.13	7.94	6.48	5.45	4.69	4.08	3.47	2.98	2.57	-
2.0	10.78a	13.64	9.99	7.84	6.41	5.41	4.69	4.02	3.43	2.95	2.55	-
1.0	15.93b	13.70	10.01	7.84	6.42	5.43	4.62	3.90	3.34	2.89	2.52	-
0.0	18.56a	13.63	9.85	7.67	6.26	5.25	4.46	3.77	3.24	2.81	-	-
-1.0	20.00	13.35	9.60	7.49	6.11	5.10	4.26	3.64	3.14	2.77	-	-
-2.0	20.00	13.29	9.53	7.43	5.96	4.88	4.12	3.54	3.12	-	-	-
-3.0	20.00	13.34	9.47	7.22	5.80	4.80	4.11	-	-	-	-	-
-4.0	20.00	13.32	9.39	7.22	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	14 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

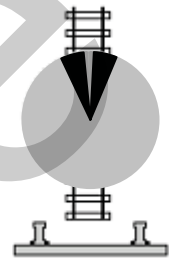
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2bL</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

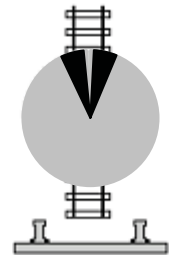


Duty	Config	Sector	Osc Axle	Safety
<b>2bL</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	15 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

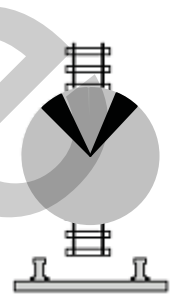
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2cU</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.98	4.09	-	-	-	-	-	-
6.0	-	-	-	-	4.98	4.15	3.49	2.97	-	-	-	-
5.0	-	-	-	5.92	4.84	4.05	3.44	2.96	2.55	-	-	-
4.0	-	9.29	6.89	5.53	4.57	3.86	3.31	2.87	2.51	2.20	-	-
3.0	-	8.88	6.46	5.02	4.23	3.62	3.14	2.75	2.42	2.15	1.90	-
2.0	8.77a	8.26	6.03	4.68	3.93	3.39	2.97	2.62	2.33	2.08	1.86	-
1.0	6.63a	6.97a	5.67	4.43	3.74	3.24	2.84	2.52	2.25	2.02	1.83	-
0.0	6.40a	6.55a	5.46	4.36	3.66	3.16	2.77	2.46	2.21	2.00	-	-
-1.0	6.53a	7.02a	5.48	4.39	3.66	3.15	2.75	2.44	2.20	2.01	-	-
-2.0	10.30a	7.43	5.60	4.47	3.72	3.19	2.79	2.49	2.26	-	-	-
-3.0	11.13	7.64	5.77	4.62	3.85	3.31	2.91	-	-	-	-	-
-4.0	11.65	8.04	6.10	4.92	-	-	-	-	-	-	-	-

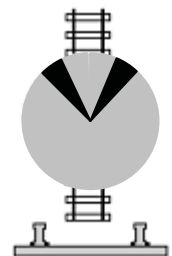


Duty	Config	Sector	Osc Axle	Safety
<b>2cU</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.00	4.10	-	-	-	-	-	-
6.0	-	-	-	-	5.01	4.21	3.56	2.97	-	-	-	-
5.0	-	-	-	5.96	4.93	4.17	3.59	3.06	2.59	-	-	-
4.0	-	9.36	7.17	5.78	4.81	4.10	3.55	3.10	2.62	2.23	-	-
3.0	-	8.99	6.92	5.61	4.70	4.02	3.51	3.08	2.60	2.23	1.90	-
2.0	10.78a	8.85	6.81	5.52	4.64	3.99	3.50	3.02	2.57	2.19	1.88	-
1.0	12.61	8.88	6.82	5.53	4.65	4.00	3.44	2.91	2.48	2.14	1.85	-
0.0	12.09	8.58	6.63	5.37	4.51	3.84	3.29	2.79	2.40	2.07	-	-
-1.0	11.86	8.36	6.42	5.22	4.37	3.70	3.11	2.66	2.30	2.03	-	-
-2.0	11.90	8.31	6.37	5.17	4.23	3.50	2.98	2.58	2.28	-	-	-
-3.0	12.12	8.35	6.32	4.99	4.10	3.44	2.98	-	-	-	-	-
-4.0	12.01	8.33	6.25	4.99	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	16 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

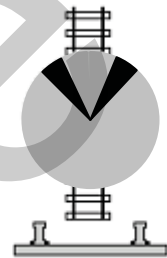
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2cL</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.65	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.44	5.46	4.03a	3.75a	3.49	-	-
3.0	-	11.92b	9.85b	8.38b	7.25	6.09	5.22	4.36a	3.92	3.41	2.96	-
2.0	8.77a	9.32a	9.74b	8.28b	6.80	5.76	4.98	4.33a	3.64a	3.32	2.91	-
1.0	6.63a	6.97a	7.59a	7.95	6.52	5.54	4.79	4.20	3.67	3.22	2.86	-
0.0	6.40a	6.55a	6.93a	7.84	6.41	5.43	4.69	4.10	3.59	3.18	-	-
-1.0	6.53a	7.02a	9.97a	7.88	6.41	5.41	4.67	4.07	3.58	3.20	-	-
-2.0	10.30a	12.44a	10.40	8.01	6.50	5.47	4.72	4.14	3.67	-	-	-
-3.0	13.99b	11.88b	10.68	8.23	6.69	5.64	4.89	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

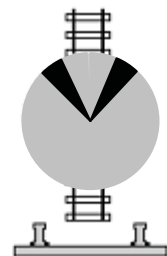


Duty	Config	Sector	Osc Axle	Safety
<b>2cL</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	5.78	4.84	-	-	-	-
5.0	-	-	-	7.39a	7.46a	6.85	5.85	4.96	4.18	-	-	-
4.0	-	12.76b	12.43b	9.76	7.99	6.75	5.79	5.00	4.22	3.54	-	-
3.0	-	12.64b	12.00	9.51	7.84	6.64	5.73	4.98	4.21	3.53	2.97	-
2.0	10.78a	13.90b	11.85b	9.37	7.74	6.58	5.71	4.89	4.12	3.48	2.94	-
1.0	15.93b	15.85a	11.86b	9.38	7.75	6.62	5.65	4.76	4.02	3.40	2.89	-
0.0	18.56a	16.41	12.04	9.37	7.65	6.41	5.44	4.59	3.88	3.29	-	-
-1.0	20.00	16.29	11.71	9.14	7.45	6.21	5.18	4.41	3.73	3.23	-	-
-2.0	20.00	16.20	11.63	9.07	7.25	5.92	5.00	4.28	3.71	-	-	-
-3.0	20.00	16.28	11.54	8.79	7.05	5.83	4.99	-	-	-	-	-
-4.0	20.00	16.25	11.43	8.79	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	17 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

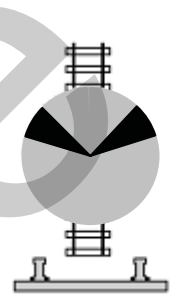
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2dU</b>	<b>RAIL</b>	<b>+/- 45° - +/- 75° Over Osc End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.01	3.28	-	-	-	-	-	-
6.0	-	-	-	-	4.01	3.33	2.78	2.34	-	-	-	-
5.0	-	-	-	4.74	3.88	3.23	2.74	2.33	2.00	-	-	-
4.0	-	7.28	5.42	4.37	3.61	3.05	2.60	2.25	1.95	1.69	-	-
3.0	-	6.88	5.00	3.87	3.28	2.81	2.44	2.13	1.87	1.64	1.44	-
2.0	8.77a	6.29	4.60	3.55	2.99	2.59	2.27	2.00	1.78	1.58	1.41	-
1.0	6.63a	5.72	4.24	3.31	2.81	2.44	2.15	1.91	1.70	1.52	1.37	-
0.0	6.40a	5.42	4.04	3.24	2.73	2.37	2.08	1.85	1.65	1.50	-	-
-1.0	6.53a	5.39	4.06	3.27	2.73	2.35	2.06	1.83	1.65	1.51	-	-
-2.0	7.94	5.51	4.17	3.35	2.79	2.40	2.10	1.87	1.70	-	-	-
-3.0	8.19	5.71	4.34	3.49	2.91	2.51	2.21	-	-	-	-	-
-4.0	8.67	6.08	4.66	3.78	-	-	-	-	-	-	-	-

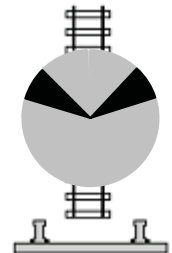


Duty	Config	Sector	Osc Axle	Safety
<b>2dU</b>	<b>RAIL</b>	<b>+/- 45° - +/- 75° Over Osc End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.03	3.28	-	-	-	-	-	-
6.0	-	-	-	-	4.04	3.39	2.85	2.35	-	-	-	-
5.0	-	-	-	4.79	3.96	3.35	2.88	2.44	2.03	-	-	-
4.0	-	7.34	5.69	4.61	3.85	3.28	2.84	2.47	2.06	1.72	-	-
3.0	-	6.99	5.45	4.45	3.74	3.21	2.80	2.45	2.05	1.72	1.45	-
2.0	9.55	6.86	5.34	4.36	3.68	3.17	2.79	2.39	2.01	1.69	1.42	-
1.0	9.56	6.88	5.35	4.37	3.69	3.19	2.73	2.28	1.93	1.63	1.39	-
0.0	9.08	6.60	5.17	4.22	3.55	3.03	2.59	2.17	1.84	1.57	-	-
-1.0	8.86	6.39	4.97	4.07	3.42	2.90	2.41	2.05	1.75	1.53	-	-
-2.0	8.90	6.34	4.92	4.02	3.29	2.70	2.29	1.96	1.73	-	-	-
-3.0	9.10	6.38	4.87	3.85	3.15	2.63	2.28	-	-	-	-	-
-4.0	9.00	6.37	4.80	3.85	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	18 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

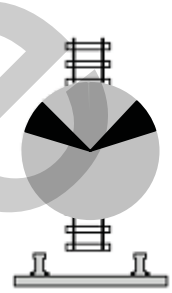
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2dL</b>	<b>RAIL</b>	$\pm 45^\circ - \pm 75^\circ$ Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	5.90	3.56a	4.20	-	-	-	-
5.0	-	-	-	7.36a	6.91	5.77	4.90	4.13a	3.55	-	-	-
4.0	-	12.28b	10.00	7.96	6.54	5.51	4.72	4.03a	3.49	3.00	-	-
3.0	-	11.92b	9.40	7.26	6.09	5.19	4.49	3.88	3.36	2.92	2.54	-
2.0	8.77a	9.32a	8.83	6.81	5.68	4.89	4.26	3.69	3.23	2.83	2.49	-
1.0	6.63a	6.97a	7.59a	6.48	5.43	4.69	4.07	3.55	3.12	2.75	2.44	-
0.0	6.40a	6.55a	6.93a	6.38	5.33	4.58	3.97	3.46	3.04	2.71	-	-
-1.0	6.53a	7.02a	8.07	6.42	5.33	4.56	3.94	3.43	3.03	2.72	-	-
-2.0	10.30a	11.05	8.23	6.53	5.41	4.62	4.00	3.50	3.12	-	-	-
-3.0	13.99b	11.35	8.47	6.73	5.58	4.77	4.17	-	-	-	-	-
-4.0	14.43b	11.27b	8.91	7.13	-	-	-	-	-	-	-	-

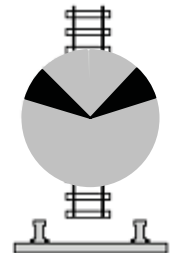


Duty	Config	Sector	Osc Axle	Safety
<b>2dL</b>	<b>RAIL</b>	$\pm 45^\circ - \pm 75^\circ$ Over Osc End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	5.99	5.04	4.21	-	-	-	-
5.0	-	-	-	7.39a	7.03	5.93	5.09	4.34	3.60	-	-	-
4.0	-	12.76b	10.31	8.29	6.87	5.83	5.04	4.38	3.65	3.04	-	-
3.0	-	12.64b	10.01	8.07	6.72	5.73	4.99	4.36a	3.63	3.04	2.54	-
2.0	10.78a	12.79	9.85	7.95	6.64	5.69	4.98	4.27	3.57	2.99	2.51	-
1.0	15.93b	12.84	9.86	7.95	6.65	5.70	4.89	4.11	3.45	2.91	2.47	-
0.0	18.30	12.65	9.65	7.75	6.46	5.49	4.70	3.94	3.32	2.81	-	-
-1.0	17.98	12.34	9.36	7.54	6.28	5.30	4.46	3.76	3.18	2.75	-	-
-2.0	18.03	12.27	9.29	7.48	6.10	5.04	4.28	3.63	3.15	-	-	-
-3.0	18.34	12.33	9.21	7.23	5.91	4.95	4.27	-	-	-	-	-
-4.0	18.19	12.31	9.12	7.23	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	19 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

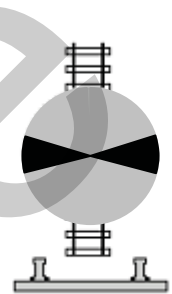
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2eU</b>	<b>RAIL</b>	$\pm 75^\circ - \pm 105^\circ$		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	3.50	2.84	-	-	-	-	-	-	
6.0	-	-	-	-	3.51	2.89	2.39	1.99	-	-	-	-	
5.0	-	-	-	4.14	3.37	2.79	2.34	1.98	1.68	-	-	-	
4.0	-	6.34	4.69	3.77	3.10	2.60	2.21	1.90	1.64	1.40	-	-	
3.0	-	5.95	4.27	3.27	2.77	2.37	2.05	1.78	1.55	1.35	1.17	-	
2.0	8.04	5.36	3.86	2.94	2.48	2.15	1.88	1.65	1.46	1.29	1.14	-	
1.0	6.63a	4.79	3.51	2.71	2.30	2.00	1.75	1.56	1.39	1.23	1.11	-	
0.0	6.40a	4.49	3.31	2.64	2.22	1.92	1.69	1.50	1.34	1.21	-	-	
-1.0	6.53a	4.46	3.33	2.66	2.22	1.91	1.67	1.48	1.33	1.22	-	-	
-2.0	6.64	4.57	3.44	2.75	2.28	1.95	1.71	1.52	1.39	-	-	-	
-3.0	6.89	4.78	3.61	2.89	2.41	2.07	1.82	-	-	-	-	-	
-4.0	7.38	5.15	3.93	3.18	-	-	-	-	-	-	-	-	

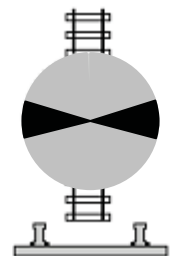


Duty	Config	Sector	Osc Axle	Safety
<b>2eU</b>	<b>RAIL</b>	$\pm 75^\circ - \pm 105^\circ$		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	3.52	2.84	-	-	-	-	-	-	
6.0	-	-	-	-	3.53	2.95	2.46	2.00	-	-	-	-	
5.0	-	-	-	4.19	3.45	2.91	2.49	2.09	1.71	-	-	-	
4.0	-	6.41	4.96	4.01	3.34	2.84	2.45	2.12	1.75	1.43	-	-	
3.0	-	6.05	4.72	3.85	3.23	2.77	2.41	2.10	1.73	1.43	1.18	-	
2.0	8.26	5.92	4.61	3.76	3.17	2.73	2.40	2.04	1.69	1.40	1.16	-	
1.0	8.26	5.95	4.62	3.77	3.18	2.74	2.34	1.93	1.61	1.35	1.13	-	
0.0	7.78	5.66	4.44	3.62	3.04	2.59	2.20	1.82	1.52	1.28	-	-	
-1.0	7.57	5.46	4.24	3.47	2.91	2.45	2.02	1.70	1.43	1.24	-	-	
-2.0	7.61	5.41	4.19	3.42	2.78	2.26	1.90	1.61	1.41	-	-	-	
-3.0	7.81	5.45	4.14	3.25	2.64	2.19	1.89	-	-	-	-	-	
-4.0	7.71	5.43	4.07	3.24	-	-	-	-	-	-	-	-	





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	20 of 53



# RATED LIFT CAPACITY CHART

# RIS 1530

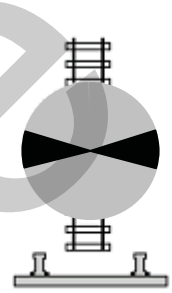
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2eL</b>	<b>RAIL</b>	$\pm 75^\circ - \pm 105^\circ$		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	5.90	3.56a	4.20	-	-	-	-
5.0	-	-	-	7.36a	6.92	5.77	4.90	4.13a	3.56	-	-	-
4.0	-	12.28b	10.00	7.96	6.54	5.51	4.72	4.03a	3.49	3.00	-	-
3.0	-	11.92b	9.41	7.27	6.09	5.20	4.49	3.88	3.36	2.93	2.54	-
2.0	8.77a	9.32a	8.83	6.81	5.69	4.89	4.26	3.69	3.23	2.84	2.49	-
1.0	6.63a	6.97a	7.59a	6.48	5.43	4.69	4.07	3.55	3.12	2.75	2.44	-
0.0	6.40a	6.55a	6.93a	6.38	5.33	4.58	3.97	3.46	3.05	2.71	-	-
-1.0	6.53a	7.02a	8.08	6.42	5.33	4.56	3.94	3.44	3.03	2.72	-	-
-2.0	10.30a	11.06	8.23	6.53	5.41	4.62	4.00	3.50	3.12	-	-	-
-3.0	13.99b	11.36	8.47	6.73	5.58	4.78	4.17	-	-	-	-	-
-4.0	14.43b	11.27b	8.92	7.13	-	-	-	-	-	-	-	-

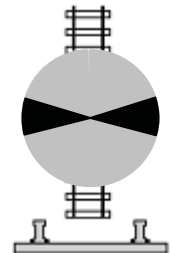


Duty	Config	Sector	Osc Axle	Safety
<b>2eL</b>	<b>RAIL</b>	$\pm 75^\circ - \pm 105^\circ$		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	5.99	5.05	4.21	-	-	-	-
5.0	-	-	-	7.39a	7.03	5.94	5.10	4.34	3.60	-	-	-
4.0	-	12.76b	10.32	8.29	6.87	5.83	5.04	4.38	3.65	3.04	-	-
3.0	-	12.64b	10.01	8.07	6.72	5.74	4.99	4.36a	3.63	3.04	2.55	-
2.0	10.78a	12.79	9.85	7.95	6.64	5.69	4.98	4.28	3.57	2.99	2.51	-
1.0	15.93b	12.85	9.86	7.96	6.65	5.71	4.89	4.12	3.45	2.91	2.47	-
0.0	18.31	12.65	9.65	7.75	6.46	5.49	4.70	3.94	3.32	2.81	-	-
-1.0	17.98	12.35	9.36	7.54	6.28	5.31	4.46	3.76	3.18	2.75	-	-
-2.0	18.04	12.27	9.29	7.48	6.10	5.04	4.28	3.63	3.15	-	-	-
-3.0	18.35	12.33	9.22	7.23	5.91	4.95	4.27	-	-	-	-	-
-4.0	18.20	12.31	9.13	7.23	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	21 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

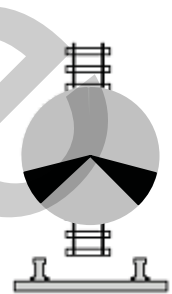
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2fU</b>	<b>RAIL</b>	+/- 105° - +/- 135° Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.87	4.01	-	-	-	-	-	-
6.0	-	-	-	-	4.88	4.06	3.41	2.90	-	-	-	-
5.0	-	-	-	5.80	4.74	3.96	3.36	2.89	2.49	-	-	-
4.0	-	9.10	6.75	5.41	4.46	3.77	3.23	2.80	2.45	2.14	-	-
3.0	-	8.69	6.31	4.89	4.13	3.53	3.06	2.68	2.36	2.09	1.85	-
2.0	8.77a	8.06	5.89	4.56	3.82	3.30	2.89	2.55	2.27	2.03	1.81	-
1.0	6.63a	6.97a	5.52	4.31	3.64	3.15	2.76	2.45	2.19	1.97	1.78	-
0.0	6.40a	6.55a	5.31	4.24	3.56	3.07	2.69	2.39	2.14	1.94	-	-
-1.0	6.53a	7.02a	5.33	4.27	3.56	3.06	2.68	2.37	2.13	1.95	-	-
-2.0	10.30a	7.23	5.45	4.35	3.62	3.10	2.71	2.42	2.19	-	-	-
-3.0	10.86	7.45	5.62	4.50	3.75	3.22	2.83	-	-	-	-	-
-4.0	11.38	7.84	5.95	4.80	-	-	-	-	-	-	-	-

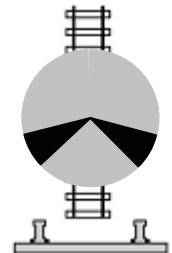


Duty	Config	Sector	Osc Axle	Safety
<b>2fU</b>	<b>RAIL</b>	+/- 105° - +/- 135° Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.90	4.01	-	-	-	-	-	-
6.0	-	-	-	-	4.91	4.12	3.48	2.90	-	-	-	-
5.0	-	-	-	5.84	4.83	4.08	3.51	2.99	2.52	-	-	-
4.0	-	9.17	7.02	5.65	4.71	4.01	3.47	3.03	2.56	2.17	-	-
3.0	-	8.79	6.78	5.49	4.59	3.94	3.43	3.01	2.54	2.17	1.85	-
2.0	10.78a	8.66	6.66	5.40	4.53	3.90	3.42	2.95	2.50	2.13	1.83	-
1.0	12.33	8.69	6.67	5.41	4.54	3.91	3.36	2.84	2.42	2.08	1.80	-
0.0	11.82	8.38	6.49	5.25	4.40	3.75	3.22	2.72	2.33	2.01	-	-
-1.0	11.59	8.16	6.28	5.10	4.27	3.61	3.03	2.59	2.24	1.97	-	-
-2.0	11.63	8.11	6.22	5.05	4.13	3.42	2.91	2.51	2.22	-	-	-
-3.0	11.84	8.16	6.17	4.87	3.99	3.35	2.90	-	-	-	-	-
-4.0	11.74	8.14	6.10	4.87	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	22 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

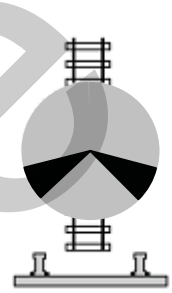
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2fL</b>	<b>RAIL</b>	<b>+/- 105° - +/- 135° Over Fixed End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-	
6.0	-	-	-	-	6.69	5.51	3.56a	3.83	-	-	-	-	
5.0	-	-	-	7.36a	6.50	5.38	4.54	3.81	3.21	-	-	-	
4.0	-	12.28b	9.54	7.50	6.12	5.12	4.35	3.68	3.14	2.67	-	-	
3.0	-	11.92b	8.91	6.79	5.65	4.79	4.10	3.50	3.01	2.60	2.23	-	
2.0	8.77a	9.32a	8.31	6.31	5.23	4.48	3.84	3.31	2.88	2.51	2.18	-	
1.0	6.63a	6.97a	7.59a	5.97	4.97	4.27	3.65	3.16	2.76	2.42	2.13	-	
0.0	6.40a	6.55a	6.93a	5.87	4.87	4.14	3.54	3.07	2.69	2.37	-	-	
-1.0	6.53a	7.02a	7.52	5.91	4.87	4.12	3.52	3.05	2.68	2.39	-	-	
-2.0	10.30a	10.52	7.68	6.03	4.95	4.19	3.57	3.11	2.76	-	-	-	
-3.0	13.99b	10.83	7.93	6.23	5.13	4.36	3.75	-	-	-	-	-	
-4.0	14.43b	11.27b	8.40	6.65	-	-	-	-	-	-	-	-	

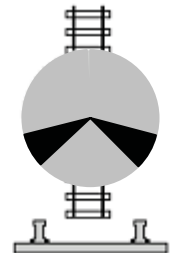


Duty	Config	Sector	Osc Axle	Safety
<b>2fL</b>	<b>RAIL</b>	<b>+/- 105° - +/- 135° Over Fixed End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	6.53a	5.45	-	-	-	-	-	-	
6.0	-	-	-	-	6.74	5.61	4.69	3.84	-	-	-	-	
5.0	-	-	-	7.39a	6.62	5.55	4.74	3.97	3.25	-	-	-	
4.0	-	12.76b	9.93	7.85	6.45	5.45	4.69	4.02	3.31	2.72	-	-	
3.0	-	12.64b	9.58	7.62	6.30	5.35	4.63	3.99	3.28	2.72	2.24	-	
2.0	10.78a	12.46	9.42	7.50	6.21	5.30	4.62	3.90	3.22	2.67	2.20	-	
1.0	15.93b	12.51	9.43	7.50	6.23	5.31	4.53	3.74	3.10	2.58	2.16	-	
0.0	18.22	12.21	9.17	7.29	6.03	5.10	4.33	3.56	2.97	2.48	-	-	
-1.0	17.86	11.88	8.87	7.07	5.84	4.91	4.05	3.38	2.83	2.42	-	-	
-2.0	17.92	11.81	8.79	7.01	5.66	4.63	3.87	3.24	2.80	-	-	-	
-3.0	18.26	11.87	8.71	6.75	5.47	4.54	3.85	-	-	-	-	-	
-4.0	18.09	11.85	8.62	6.75	-	-	-	-	-	-	-	-	





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>23 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

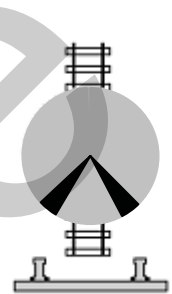
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2gU</b>	<b>RAIL</b>	$\pm 135^\circ - \pm 150^\circ$ Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.67	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	5.67	4.72	3.56a	3.39	-	-	-	-
5.0	-	-	-	6.78	5.53	4.62	3.93	3.38	2.93	-	-	-
4.0	-	10.90	8.01	6.37	5.24	4.42	3.79	3.29	2.88	2.53	-	-
3.0	-	10.47	7.55	5.84	4.90	4.18	3.62	3.16	2.79	2.48	2.20	-
2.0	8.77a	9.32a	7.11	5.50	4.59	3.95	3.45	3.03	2.70	2.42	2.17	-
1.0	6.63a	6.97a	6.73	5.24	4.39	3.79	3.31	2.94	2.62	2.35	2.13	-
0.0	6.40a	6.55a	6.51	5.17	4.32	3.71	3.24	2.87	2.57	2.33	-	-
-1.0	6.53a	7.02a	6.53	5.20	4.32	3.69	3.22	2.86	2.56	2.34	-	-
-2.0	10.30a	8.93	6.65	5.28	4.38	3.74	3.26	2.90	2.62	-	-	-
-3.0	13.66	9.16	6.84	5.44	4.51	3.86	3.38	-	-	-	-	-
-4.0	14.22	9.58	7.18	5.74	-	-	-	-	-	-	-	-

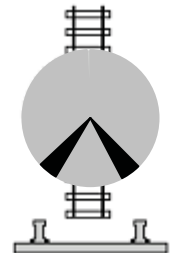


Duty	Config	Sector	Osc Axle	Safety
<b>2gU</b>	<b>RAIL</b>	$\pm 135^\circ - \pm 150^\circ$ Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.69	4.67	-	-	-	-	-	-
6.0	-	-	-	-	5.70	4.79	4.04	3.40	-	-	-	-
5.0	-	-	-	6.82	5.62	4.74	4.08	3.49	2.96	-	-	-
4.0	-	10.97	8.29	6.63	5.49	4.67	4.04	3.52	2.99	2.56	-	-
3.0	-	10.58	8.04	6.46	5.38	4.59	4.00	3.50	2.98	2.56	2.21	-
2.0	10.78a	10.43	7.92	6.37	5.32	4.56	3.99	3.44	2.94	2.53	2.18	-
1.0	15.26	10.46	7.93	6.37	5.33	4.57	3.92	3.33	2.85	2.47	2.15	-
0.0	14.70	10.15	7.74	6.21	5.18	4.41	3.78	3.21	2.77	2.40	-	-
-1.0	14.45	9.91	7.52	6.06	5.04	4.26	3.59	3.08	2.67	2.36	-	-
-2.0	14.49	9.86	7.46	6.01	4.90	4.06	3.46	2.99	2.65	-	-	-
-3.0	14.73	9.91	7.41	5.82	4.76	3.99	3.45	-	-	-	-	-
-4.0	14.61	9.89	7.34	5.82	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

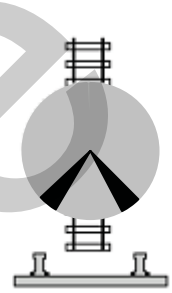
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2gL</b>	<b>RAIL</b>	$\pm 135^\circ - \pm 150^\circ$ Over Fixed End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	9.76	8.41	7.39	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

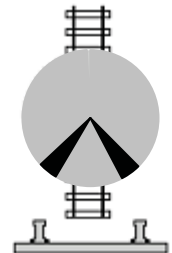


Duty	Config	Sector	Osc Axle	Safety
<b>2gL</b>	<b>RAIL</b>	$\pm 135^\circ - \pm 150^\circ$ Over Fixed End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86	7.00	6.16	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.01	10.21	8.85b	7.81	6.96	6.12	5.42	-
1.0	15.93b	15.85a	15.20b	14.30b	11.97	10.18	8.84b	7.83	6.88	6.04	5.37	-
0.0	18.56a	18.61b	16.85b	14.62b	12.06	10.26b	8.94	7.77	6.77	5.97	-	-
-1.0	20.00	20.00	17.81b	14.81	12.25	10.44	8.84	7.62	6.66	5.91	-	-
-2.0	20.00	20.00	18.05b	15.20b	12.33	10.22	8.69	7.52	6.62	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.19	10.12	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	25 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

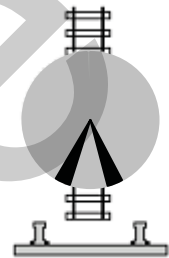
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2hU</b>	<b>RAIL</b>	+/- 150° - +/- 165° Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	10.92	7.71a	7.44a	6.07a	5.76	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	8.99	7.60	6.58	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

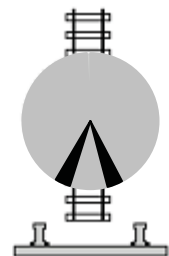


Duty	Config	Sector	Osc Axle	Safety
<b>2hU</b>	<b>RAIL</b>	+/- 150° - +/- 165° Over Fixed End		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.13	6.20	5.38	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.15	7.07	6.19a	5.38	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	11.45b	9.50b	8.10	7.05	6.13	5.34	4.70	-
1.0	15.93b	15.85a	15.20b	14.30b	11.44b	9.50b	8.11	7.03	6.06	5.28	4.66	-
0.0	18.56a	18.61b	16.85b	14.44b	11.51	9.57b	8.16	6.90	5.95	5.21	-	-
-1.0	20.00	20.00	17.81b	14.64	11.74	9.61	7.96	6.77	5.88	5.17	-	-
-2.0	20.00	20.00	18.05b	15.07b	11.63	9.39	7.84	6.69	5.84	-	-	-
-3.0	20.00	20.00	18.23b	14.91	11.50	9.30	7.80	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	26 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

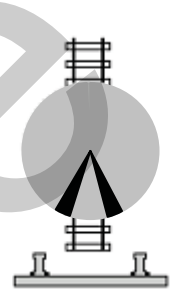
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2hL</b>	<b>RAIL</b>	$\pm 150^\circ - \pm 165^\circ$ Over Fixed End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

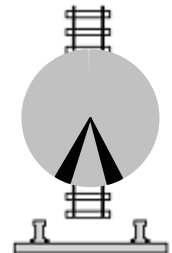


Duty	Config	Sector	Osc Axle	Safety
<b>2hL</b>	<b>RAIL</b>	$\pm 150^\circ - \pm 165^\circ$ Over Fixed End		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.48	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.45	7.40	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.39	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

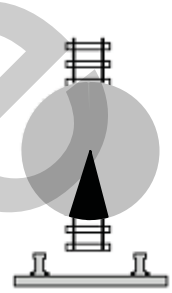
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2iU</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

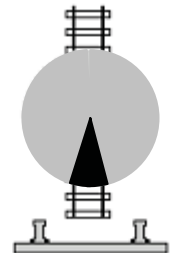


Duty	Config	Sector	Osc Axle	Safety
<b>2iU</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>67%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

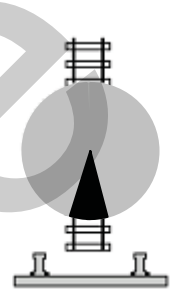
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>2iL</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

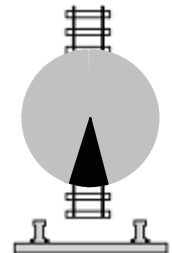


Duty	Config	Sector	Osc Axle	Safety
<b>2iL</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>90%</b>
				
	<b>0 - 50mm</b>			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	29 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

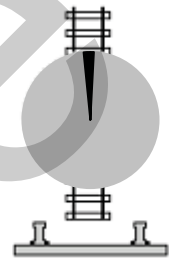
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3aU</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>67%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

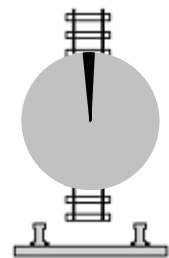


Duty	Config	Sector	Osc Axle	Safety
<b>3aU</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>67%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2aU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>30 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

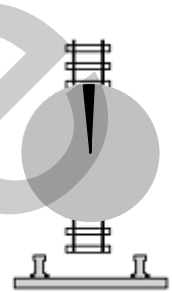
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3aL</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

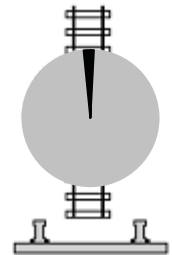


Duty	Config	Sector	Osc Axle	Safety
<b>3aL</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2aL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>31 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

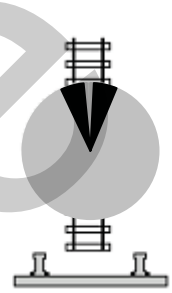
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3bU</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	3.99	3.18	-	-	-	-	-	-	
6.0	-	-	-	-	3.99	3.23	2.65	2.18	-	-	-	-	
5.0	-	-	-	4.84	3.84	3.13	2.60	2.17	1.83	-	-	-	
4.0	-	8.18	5.70	4.41	3.54	2.92	2.45	2.08	1.78	1.52	-	-	
3.0	-	7.69	5.21	3.85	3.18	2.67	2.27	1.95	1.69	1.47	1.27	-	
2.0	8.77a	6.96	4.73	3.48	2.86	2.43	2.10	1.82	1.60	1.41	1.23	-	
1.0	6.63a	6.25	4.32	3.21	2.65	2.27	1.96	1.72	1.52	1.34	1.20	-	
0.0	6.40a	5.88	4.08	3.14	2.57	2.18	1.89	1.66	1.47	1.31	-	-	
-1.0	6.53a	5.84	4.11	3.16	2.57	2.17	1.87	1.64	1.46	1.33	-	-	
-2.0	9.78	5.98	4.24	3.26	2.64	2.22	1.91	1.68	1.52	-	-	-	
-3.0	10.12	6.24	4.44	3.42	2.77	2.34	2.03	-	-	-	-	-	
-4.0	10.79	6.70	4.81	3.74	-	-	-	-	-	-	-	-	

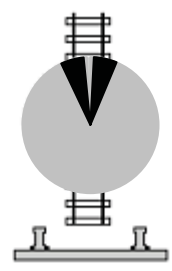


Duty	Config	Sector	Osc Axle	Safety
<b>3bU</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	4.01	3.18	-	-	-	-	-	-	
6.0	-	-	-	-	4.03	3.30	2.72	2.19	-	-	-	-	
5.0	-	-	-	4.89	3.94	3.26	2.75	2.29	1.86	-	-	-	
4.0	-	8.26	6.01	4.68	3.80	3.18	2.71	2.32	1.90	1.55	-	-	
3.0	-	7.82	5.74	4.50	3.69	3.10	2.67	2.30	1.88	1.55	1.27	-	
2.0	10.78a	7.66	5.61	4.41	3.62	3.06	2.66	2.24	1.84	1.52	1.25	-	
1.0	12.02	7.69	5.61	4.41	3.63	3.08	2.59	2.12	1.76	1.46	1.22	-	
0.0	11.36	7.34	5.41	4.24	3.48	2.91	2.44	2.00	1.66	1.39	-	-	
-1.0	11.06	7.08	5.17	4.08	3.33	2.76	2.24	1.87	1.56	1.34	-	-	
-2.0	11.11	7.02	5.11	4.02	3.19	2.55	2.11	1.78	1.54	-	-	-	
-3.0	11.39	7.07	5.05	3.82	3.04	2.48	2.11	-	-	-	-	-	
-4.0	11.25	7.05	4.98	3.82	-	-	-	-	-	-	-	-	





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2bU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>32 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

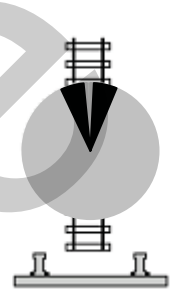
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3bL</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

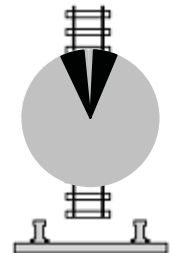


Duty	Config	Sector	Osc Axle	Safety
<b>3bL</b>	<b>RAIL</b>	+/- 5° - +/- 25° Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	6.89	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.94	7.87	6.83	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.31	8.99	7.79	6.73	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	8.99	7.67	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.88	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2bL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>33 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

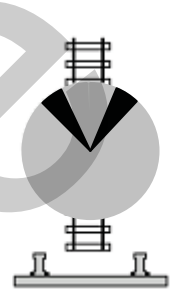
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3cU</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	3.88	3.16	-	-	-	-	-	-
6.0	-	-	-	-	3.88	3.21	2.68	2.26	-	-	-	-
5.0	-	-	-	4.59	3.75	3.12	2.64	2.25	1.92	-	-	-
4.0	-	7.03	5.23	4.21	3.48	2.94	2.50	2.16	1.88	1.63	-	-
3.0	-	6.64	4.82	3.72	3.16	2.71	2.34	2.04	1.79	1.58	1.38	-
2.0	8.77a	6.06	4.42	3.40	2.87	2.49	2.18	1.92	1.70	1.52	1.35	-
1.0	6.63a	5.50	4.07	3.17	2.69	2.34	2.05	1.83	1.63	1.46	1.31	-
0.0	6.40a	5.20	3.87	3.10	2.62	2.26	1.99	1.77	1.58	1.43	-	-
-1.0	6.53a	5.17	3.89	3.13	2.61	2.25	1.97	1.75	1.57	1.44	-	-
-2.0	7.63	5.28	4.00	3.21	2.67	2.29	2.01	1.79	1.63	-	-	-
-3.0	7.87	5.49	4.17	3.35	2.79	2.40	2.12	-	-	-	-	-
-4.0	8.35	5.85	4.48	3.63	-	-	-	-	-	-	-	-

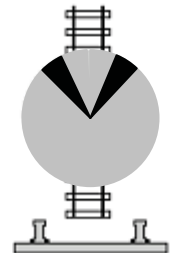


Duty	Config	Sector	Osc Axle	Safety
<b>3cU</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	3.90	3.17	-	-	-	-	-	-
6.0	-	-	-	-	3.91	3.28	2.75	2.26	-	-	-	-
5.0	-	-	-	4.63	3.83	3.24	2.78	2.35	1.95	-	-	-
4.0	-	7.09	5.49	4.45	3.71	3.17	2.74	2.38	1.98	1.65	-	-
3.0	-	6.74	5.26	4.29	3.61	3.10	2.70	2.36	1.97	1.65	1.38	-
2.0	9.22	6.62	5.15	4.21	3.55	3.06	2.69	2.30	1.93	1.62	1.36	-
1.0	9.22	6.64	5.16	4.21	3.56	3.07	2.63	2.20	1.85	1.57	1.33	-
0.0	8.75	6.36	4.99	4.07	3.42	2.92	2.49	2.08	1.77	1.50	-	-
-1.0	8.54	6.16	4.79	3.92	3.29	2.79	2.32	1.96	1.67	1.46	-	-
-2.0	8.58	6.11	4.74	3.88	3.16	2.59	2.19	1.88	1.65	-	-	-
-3.0	8.77	6.15	4.69	3.70	3.03	2.53	2.19	-	-	-	-	-
-4.0	8.68	6.13	4.62	3.70	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2cU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>34 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

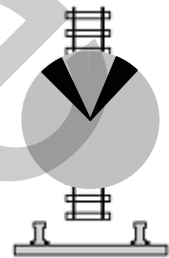
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3cL</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.47	5.29	3.56a	3.60	-	-	-	-
5.0	-	-	-	7.36a	6.28	5.15	4.31	3.58	2.99	-	-	-
4.0	-	12.28b	9.36	7.28	5.88	4.89	4.10	3.45	2.92	2.46	-	-
3.0	-	11.92b	8.70	6.53	5.40	4.55	3.84	3.26	2.78	2.39	2.03	-
2.0	8.77a	9.32a	8.07	6.04	4.97	4.22	3.59	3.07	2.65	2.29	1.98	-
1.0	6.63a	6.97a	7.52	5.68	4.70	3.98	3.38	2.92	2.53	2.20	1.93	-
0.0	6.40a	6.55a	6.93a	5.58	4.59	3.86	3.28	2.83	2.46	2.16	-	-
-1.0	6.53a	7.02a	7.24	5.62	4.59	3.84	3.25	2.80	2.45	2.18	-	-
-2.0	10.30a	10.35	7.41	5.74	4.68	3.91	3.31	2.86	2.53	-	-	-
-3.0	13.99b	10.69	7.67	5.95	4.86	4.08	3.49	-	-	-	-	-
-4.0	14.43b	11.27b	8.16	6.38	-	-	-	-	-	-	-	-

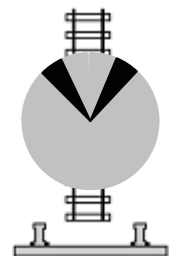


Duty	Config	Sector	Osc Axle	Safety
<b>3cL</b>	<b>RAIL</b>	+/- 25° - +/- 45° Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.48	5.23	-	-	-	-	-	-
6.0	-	-	-	-	6.52	5.39	4.48	3.61	-	-	-	-
5.0	-	-	-	7.39a	6.40	5.33	4.53	3.75	3.04	-	-	-
4.0	-	12.76b	9.77	7.63	6.22	5.22	4.47	3.79	3.09	2.51	-	-
3.0	-	12.63	9.40	7.39	6.07	5.12	4.41	3.76	3.06	2.51	2.04	-
2.0	10.78a	12.42	9.23	7.27	5.98	5.07	4.40	3.67	3.00	2.46	2.01	-
1.0	15.93b	12.48	9.24	7.27	6.00	5.09	4.30	3.51	2.88	2.37	1.96	-
0.0	18.56a	12.16	8.97	7.05	5.79	4.86	4.08	3.32	2.75	2.27	-	-
-1.0	18.42	11.81	8.65	6.83	5.60	4.67	3.80	3.14	2.60	2.21	-	-
-2.0	18.49	11.73	8.57	6.76	5.41	4.39	3.61	3.00	2.57	-	-	-
-3.0	18.86	11.80	8.49	6.49	5.21	4.29	3.60	-	-	-	-	-
-4.0	18.67	11.77	8.39	6.49	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2cL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>35 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

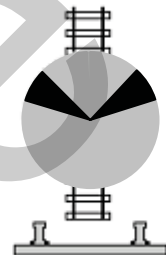
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3dU</b>	RAIL	+/- 45° - +/- 75° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	2.85	2.29	-	-	-	-	-	-	
6.0	-	-	-	-	2.86	2.34	1.92	1.58	-	-	-	-	
5.0	-	-	-	3.36	2.73	2.25	1.87	1.57	1.31	-	-	-	
4.0	-	5.04	3.73	3.00	2.47	2.07	1.75	1.49	1.27	1.07	-	-	
3.0	-	4.66	3.33	2.53	2.16	1.84	1.59	1.37	1.19	1.02	0.88	-	
2.0	6.15	4.11	2.94	2.22	1.87	1.63	1.43	1.25	1.10	0.97	0.84	-	
1.0	5.26	3.57	2.61	1.99	1.70	1.49	1.30	1.16	1.03	0.91	0.79	-	
0.0	4.82	3.29	2.42	1.92	1.63	1.41	1.24	1.10	0.98	0.88	-	-	
-1.0	4.76	3.26	2.44	1.95	1.63	1.40	1.22	1.08	0.97	0.89	-	-	
-2.0	4.86	3.37	2.54	2.03	1.68	1.44	1.26	1.12	1.03	-	-	-	
-3.0	5.09	3.56	2.70	2.16	1.80	1.55	1.37	-	-	-	-	-	
-4.0	5.53	3.91	3.00	2.44	-	-	-	-	-	-	-	-	

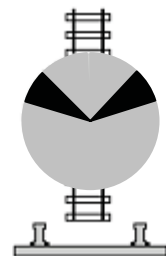


Duty	Config	Sector	Osc Axle	Safety
<b>3dU</b>	RAIL	+/- 45° - +/- 75° Over Osc End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	2.87	2.30	-	-	-	-	-	-	
6.0	-	-	-	-	2.89	2.40	1.98	1.59	-	-	-	-	
5.0	-	-	-	3.40	2.81	2.36	2.01	1.67	1.34	-	-	-	
4.0	-	5.09	3.98	3.23	2.70	2.29	1.98	1.70	1.38	1.10	-	-	
3.0	-	4.76	3.75	3.08	2.59	2.22	1.94	1.68	1.36	1.10	0.88	-	
2.0	6.34	4.64	3.65	3.00	2.53	2.19	1.93	1.63	1.32	1.07	0.86	-	
1.0	6.35	4.66	3.65	3.00	2.55	2.20	1.87	1.52	1.24	1.02	0.82	-	
0.0	5.91	4.40	3.49	2.86	2.41	2.05	1.73	1.41	1.16	0.95	-	-	
-1.0	5.71	4.20	3.30	2.72	2.29	1.92	1.56	1.29	1.07	0.91	-	-	
-2.0	5.75	4.15	3.25	2.67	2.16	1.73	1.44	1.21	1.05	-	-	-	
-3.0	5.93	4.19	3.20	2.50	2.03	1.67	1.43	-	-	-	-	-	
-4.0	5.84	4.18	3.14	2.50	-	-	-	-	-	-	-	-	





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2dU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

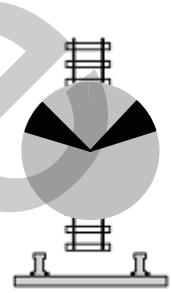
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3dL</b>	<b>RAIL</b>	$\pm 45^\circ - \pm 75^\circ$ Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.33	3.38	-	-	-	-	-	-
6.0	-	-	-	-	4.34	3.45	2.75	2.19	-	-	-	-
5.0	-	-	-	5.17	4.14	3.31	2.68	2.17	1.75	-	-	-
4.0	-	8.07	5.86	4.66	3.74	3.04	2.49	2.05	1.68	1.36	-	-
3.0	-	7.53	5.29	3.96	3.26	2.70	2.24	1.87	1.55	1.28	1.04	-
2.0	8.77a	6.71	4.74	3.47	2.82	2.37	2.00	1.69	1.43	1.20	0.99	-
1.0	6.63a	5.92	4.26	3.12	2.55	2.15	1.82	1.55	1.32	1.11	0.94	-
0.0	6.40a	5.51	3.96	3.02	2.44	2.04	1.72	1.46	1.25	1.07	-	-
-1.0	6.53a	5.47	3.99	3.05	2.44	2.02	1.69	1.43	1.23	1.09	-	-
-2.0	8.41	5.63	4.16	3.18	2.53	2.08	1.74	1.50	1.32	-	-	-
-3.0	8.76	5.91	4.40	3.39	2.71	2.25	1.91	-	-	-	-	-
-4.0	9.44	6.42	4.82	3.81	-	-	-	-	-	-	-	-

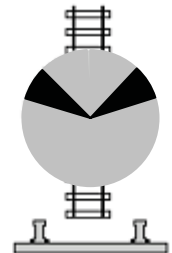


Duty	Config	Sector	Osc Axle	Safety
<b>3dL</b>	<b>RAIL</b>	$\pm 45^\circ - \pm 75^\circ$ Over Osc End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	4.36	3.39	-	-	-	-	-	-
6.0	-	-	-	-	4.38	3.55	2.85	2.20	-	-	-	-
5.0	-	-	-	5.23	4.26	3.49	2.89	2.33	1.79	-	-	-
4.0	-	8.16	6.22	4.98	4.09	3.38	2.84	2.37	1.84	1.40	-	-
3.0	-	7.67	5.90	4.77	3.93	3.28	2.78	2.34	1.82	1.40	1.04	-
2.0	10.68	7.49	5.75	4.65	3.84	3.23	2.76	2.26	1.76	1.35	1.01	-
1.0	10.69	7.53	5.76	4.66	3.86	3.24	2.68	2.10	1.64	1.27	0.97	-
0.0	10.01	7.13	5.52	4.46	3.65	3.01	2.47	1.93	1.52	1.17	-	-
-1.0	9.71	6.84	5.25	4.25	3.46	2.82	2.20	1.75	1.38	1.11	-	-
-2.0	9.77	6.78	5.18	4.18	3.27	2.53	2.02	1.62	1.35	-	-	-
-3.0	10.05	6.83	5.11	3.92	3.07	2.43	2.01	-	-	-	-	-
-4.0	9.91	6.81	5.02	3.92	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2dL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>37 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

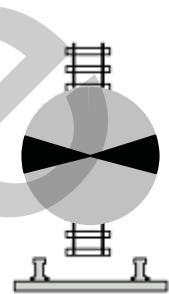
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3eU</b>	RAIL	+/- 75° - +/- 105°		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	3.25	2.64	-	-	-	-	-	-
6.0	-	-	-	-	3.26	2.69	2.23	1.86	-	-	-	-
5.0	-	-	-	3.83	3.13	2.59	2.18	1.85	1.56	-	-	-
4.0	-	5.75	4.29	3.47	2.87	2.41	2.05	1.76	1.52	1.30	-	-
3.0	-	5.38	3.89	2.99	2.55	2.19	1.89	1.65	1.44	1.25	1.09	-
2.0	7.11	4.82	3.50	2.68	2.27	1.98	1.74	1.53	1.35	1.20	1.05	-
1.0	6.23	4.28	3.17	2.46	2.09	1.83	1.61	1.43	1.28	1.14	1.02	-
0.0	5.79	4.00	2.98	2.39	2.02	1.76	1.55	1.38	1.23	1.11	-	-
-1.0	5.73	3.97	3.00	2.41	2.02	1.74	1.53	1.36	1.22	1.12	-	-
-2.0	5.82	4.08	3.10	2.49	2.08	1.79	1.56	1.40	1.28	-	-	-
-3.0	6.05	4.27	3.27	2.63	2.20	1.90	1.67	-	-	-	-	-
-4.0	6.50	4.62	3.56	2.90	-	-	-	-	-	-	-	-

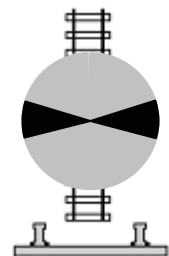


Duty	Config	Sector	Osc Axle	Safety
<b>3eU</b>	RAIL	+/- 75° - +/- 105°		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	3.27	2.64	-	-	-	-	-	-
6.0	-	-	-	-	3.28	2.75	2.29	1.86	-	-	-	-
5.0	-	-	-	3.87	3.21	2.71	2.32	1.95	1.59	-	-	-
4.0	-	5.81	4.54	3.70	3.09	2.64	2.28	1.98	1.63	1.33	-	-
3.0	-	5.47	4.32	3.54	2.99	2.57	2.25	1.96	1.61	1.33	1.09	-
2.0	7.31	5.35	4.21	3.46	2.93	2.54	2.24	1.90	1.57	1.30	1.07	-
1.0	7.32	5.38	4.22	3.47	2.94	2.55	2.18	1.80	1.49	1.25	1.04	-
0.0	6.87	5.11	4.05	3.33	2.81	2.40	2.04	1.69	1.41	1.18	-	-
-1.0	6.68	4.91	3.86	3.18	2.68	2.27	1.87	1.57	1.32	1.14	-	-
-2.0	6.71	4.87	3.81	3.14	2.56	2.08	1.75	1.48	1.30	-	-	-
-3.0	6.90	4.90	3.76	2.97	2.43	2.02	1.74	-	-	-	-	-
-4.0	6.80	4.89	3.70	2.97	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2eU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	38 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

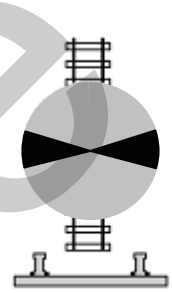
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3eL</b>	RAIL	+/- 75° - +/- 105°		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.99	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.00	4.98	3.56a	3.43	-	-	-	-
5.0	-	-	-	7.13	5.82	4.85	4.08	3.42	2.87	-	-	-
4.0	-	11.18	8.27	6.62	5.46	4.60	3.88	3.30	2.81	2.39	-	-
3.0	-	10.64	7.69	5.95	5.02	4.28	3.64	3.12	2.68	2.31	1.98	-
2.0	8.77a	9.32a	7.14	5.51	4.62	3.96	3.40	2.94	2.56	2.23	1.93	-
1.0	6.63a	6.97a	6.66	5.19	4.38	3.74	3.21	2.80	2.44	2.14	1.88	-
0.0	6.40a	6.55a	6.39	5.10	4.28	3.62	3.11	2.71	2.37	2.10	-	-
-1.0	6.53a	7.02a	6.42	5.13	4.28	3.60	3.09	2.68	2.36	2.12	-	-
-2.0	10.30a	8.73	6.57	5.24	4.36	3.67	3.14	2.74	2.45	-	-	-
-3.0	13.16	9.02	6.80	5.43	4.52	3.83	3.31	-	-	-	-	-
-4.0	13.84	9.53	7.22	5.82	-	-	-	-	-	-	-	-

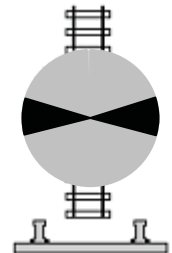


Duty	Config	Sector	Osc Axle	Safety
<b>3eL</b>	RAIL	+/- 75° - +/- 105°		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.02	4.92	-	-	-	-	-	-
6.0	-	-	-	-	6.04	5.06	4.24	3.45	-	-	-	-
5.0	-	-	-	7.19	5.93	5.01	4.29	3.57	2.92	-	-	-
4.0	-	11.26	8.63	6.94	5.77	4.91	4.23	3.62	2.97	2.43	-	-
3.0	-	10.78	8.30	6.73	5.63	4.82	4.18	3.59	2.95	2.43	1.99	-
2.0	10.78a	10.60	8.15	6.61	5.55	4.77	4.16	3.51	2.89	2.38	1.96	-
1.0	15.10	10.63	8.16	6.62	5.56	4.79	4.07	3.35	2.77	2.30	1.91	-
0.0	14.42	10.24	7.93	6.42	5.38	4.58	3.87	3.18	2.65	2.20	-	-
-1.0	14.12	9.95	7.65	6.22	5.20	4.40	3.60	3.00	2.51	2.14	-	-
-2.0	14.17	9.88	7.58	6.16	5.03	4.12	3.42	2.87	2.48	-	-	-
-3.0	14.45	9.94	7.51	5.92	4.84	4.02	3.41	-	-	-	-	-
-4.0	14.31	9.92	7.42	5.91	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2eL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	39 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

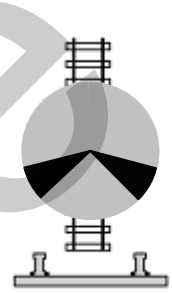
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3fU</b>	<b>RAIL</b>	$\pm 105^\circ - \pm 135^\circ$ Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	4.66	3.84	-	-	-	-	-	-	
6.0	-	-	-	-	4.66	3.89	3.29	2.79	-	-	-	-	
5.0	-	-	-	5.51	4.53	3.80	3.24	2.79	2.41	-	-	-	
4.0	-	8.47	6.36	5.14	4.26	3.62	3.11	2.70	2.36	2.07	-	-	
3.0	-	8.08	5.94	4.65	3.94	3.39	2.94	2.58	2.28	2.02	1.79	-	
2.0	8.77a	7.50	5.54	4.33	3.65	3.17	2.78	2.46	2.19	1.96	1.76	-	
1.0	6.63a	6.93	5.19	4.09	3.47	3.02	2.66	2.36	2.12	1.90	1.72	-	
0.0	6.40a	6.55a	5.00	4.02	3.40	2.94	2.59	2.31	2.07	1.88	-	-	
-1.0	6.53a	6.61	5.02	4.05	3.40	2.93	2.57	2.29	2.06	1.89	-	-	
-2.0	9.62	6.72	5.13	4.13	3.46	2.97	2.61	2.33	2.12	-	-	-	
-3.0	9.86	6.92	5.29	4.27	3.58	3.08	2.72	-	-	-	-	-	
-4.0	10.34	7.29	5.60	4.55	-	-	-	-	-	-	-	-	

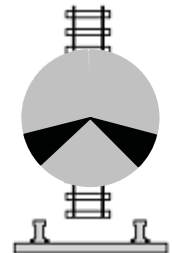


Duty	Config	Sector	Osc Axle	Safety
<b>3fU</b>	<b>RAIL</b>	$\pm 105^\circ - \pm 135^\circ$ Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS												
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	
8.0	-	-	-	-	-	-	-	-	-	-	-	-	
7.0	-	-	-	-	4.68	3.85	-	-	-	-	-	-	
6.0	-	-	-	-	4.69	3.96	3.35	2.80	-	-	-	-	
5.0	-	-	-	5.55	4.61	3.92	3.38	2.89	2.44	-	-	-	
4.0	-	8.53	6.62	5.37	4.50	3.85	3.34	2.92	2.47	2.10	-	-	
3.0	-	8.18	6.39	5.22	4.39	3.78	3.30	2.90	2.46	2.10	1.79	-	
2.0	10.78a	8.05	6.28	5.13	4.33	3.74	3.29	2.84	2.42	2.07	1.77	-	
1.0	11.21	8.08	6.28	5.14	4.34	3.75	3.23	2.74	2.34	2.01	1.74	-	
0.0	10.74	7.80	6.11	4.99	4.21	3.60	3.09	2.62	2.25	1.95	-	-	
-1.0	10.53	7.59	5.91	4.84	4.08	3.47	2.92	2.50	2.16	1.91	-	-	
-2.0	10.57	7.54	5.86	4.80	3.95	3.27	2.80	2.42	2.14	-	-	-	
-3.0	10.76	7.58	5.81	4.62	3.81	3.21	2.79	-	-	-	-	-	
-4.0	10.67	7.57	5.75	4.62	-	-	-	-	-	-	-	-	





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2fU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	40 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

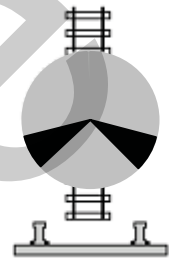
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3fL</b>	<b>RAIL</b>	+/- 105° - +/- 135° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	5.99	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.02	5.86	4.98	4.13a	3.63	-	-	-
4.0	-	12.28b	10.10b	8.09	6.65	5.60	4.80	4.03a	3.56	3.06	-	-
3.0	-	11.92b	9.56	7.39	6.20	5.29	4.57	3.96	3.43	2.99	2.60	-
2.0	8.77a	9.32a	8.99	6.94	5.79	4.98	4.35	3.77	3.30	2.90	2.55	-
1.0	6.63a	6.97a	7.59a	6.61	5.54	4.78	4.16	3.63	3.19	2.81	2.50	-
0.0	6.40a	6.55a	6.93a	6.51	5.44	4.67	4.06	3.54	3.12	2.77	-	-
-1.0	6.53a	7.02a	8.23	6.54	5.44	4.65	4.03	3.51	3.11	2.79	-	-
-2.0	10.30a	11.26	8.38	6.66	5.52	4.71	4.09	3.58	3.19	-	-	-
-3.0	13.99b	11.56	8.63	6.86	5.69	4.87	4.26	-	-	-	-	-
-4.0	14.43b	11.27b	9.07	7.26	-	-	-	-	-	-	-	-

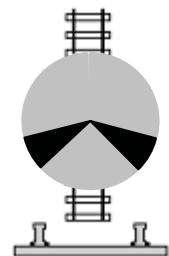


Duty	Config	Sector	Osc Axle	Safety
<b>3fL</b>	<b>RAIL</b>	+/- 105° - +/- 135° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.08	5.13	4.29	-	-	-	-
5.0	-	-	-	7.39a	7.14	6.03	5.18	4.42	3.67	-	-	-
4.0	-	12.76b	10.47	8.42	6.97	5.92	5.12	4.45	3.72	3.11	-	-
3.0	-	12.64b	10.13	8.20	6.83	5.83	5.07	4.42	3.70	3.11	2.60	-
2.0	10.78a	12.98b	9.97	8.08	6.74	5.78	5.06	4.33a	3.64a	3.06	2.57	-
1.0	15.93b	13.02b	9.98	8.08	6.76	5.80	4.97	4.19	3.52	2.98	2.53	-
0.0	18.56a	12.85	9.81	7.88	6.57	5.58	4.78	4.02	3.39	2.88	-	-
-1.0	18.28	12.55	9.52	7.67	6.38	5.40	4.54	3.84	3.25	2.82	-	-
-2.0	18.34	12.48	9.45	7.61	6.20	5.13	4.37	3.71	3.23	-	-	-
-3.0	18.64	12.54	9.37	7.36	6.02	5.04	4.36	-	-	-	-	-
-4.0	18.49	12.51	9.28	7.36	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2fL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3gU</b>	<b>RAIL</b>	+/- 135° - +/- 150° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.88	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	5.88	4.93	3.56a	3.59	-	-	-	-
5.0	-	-	-	6.99	5.75	4.83	4.13	3.58	3.12	-	-	-
4.0	-	10.99	8.21	6.60	5.47	4.64	4.00	3.49	3.07	2.71	-	-
3.0	-	10.58	7.78	6.10	5.14	4.41	3.83	3.37	2.98	2.66	2.37	-
2.0	8.77a	9.32a	7.36	5.76	4.84	4.18	3.67	3.24	2.90	2.60	2.34	-
1.0	6.63a	6.97a	7.00	5.52	4.66	4.03	3.54	3.15	2.82	2.54	2.31	-
0.0	6.40a	6.55a	6.79	5.45	4.58	3.95	3.47	3.09	2.77	2.51	-	-
-1.0	6.53a	7.02a	6.82	5.48	4.58	3.94	3.45	3.07	2.76	2.52	-	-
-2.0	10.30a	9.15	6.93	5.56	4.64	3.99	3.49	3.11	2.82	-	-	-
-3.0	13.57	9.36	7.10	5.71	4.77	4.10	3.60	-	-	-	-	-
-4.0	14.08	9.75	7.43	6.00	-	-	-	-	-	-	-	-

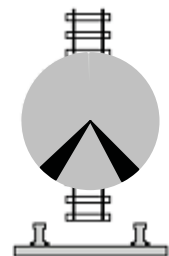


Duty	Config	Sector	Osc Axle	Safety
<b>3gU</b>	<b>RAIL</b>	+/- 135° - +/- 150° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	5.90	4.88	-	-	-	-	-	-
6.0	-	-	-	-	5.91	4.99	4.25	3.59	-	-	-	-
5.0	-	-	-	7.03	5.83	4.95	4.28	3.68	3.15	-	-	-
4.0	-	11.06	8.48	6.84	5.71	4.88	4.24	3.71	3.18	2.74	-	-
3.0	-	10.69	8.24	6.68	5.60	4.81	4.20	3.69	3.16	2.74	2.38	-
2.0	10.78a	10.55	8.13	6.60	5.54	4.77	4.19	3.64	3.13	2.71	2.36	-
1.0	15.02	10.58	8.13	6.60	5.55	4.78	4.13	3.53	3.05	2.65	2.33	-
0.0	14.51	10.28	7.95	6.45	5.41	4.63	3.99	3.41	2.96	2.58	-	-
-1.0	14.28	10.07	7.75	6.30	5.28	4.49	3.81	3.29	2.86	2.54	-	-
-2.0	14.32	10.02	7.69	6.25	5.15	4.29	3.68	3.20	2.84	-	-	-
-3.0	14.54	10.06	7.64	6.07	5.01	4.23	3.67	-	-	-	-	-
-4.0	14.43	10.04	7.58	6.07	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2gU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530

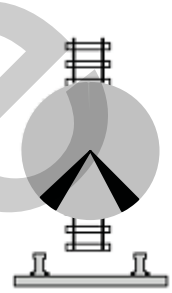
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3gL</b>	RAIL	+/- 135° - +/- 150° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	3.87	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.03	8.21	6.95	5.47a	5.16a	4.32a	4.24	-	-
-1.0	6.53a	7.02a	9.97a	10.07	8.21	6.93	5.99	5.27	4.70	4.25	-	-
-2.0	10.30a	12.44a	13.20	10.20	8.30	7.00	6.04	5.33	4.79	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	8.48	7.16	6.21	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

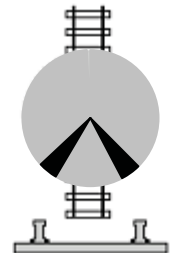


Duty	Config	Sector	Osc Axle	Safety
<b>3gL</b>	RAIL	+/- 135° - +/- 150° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.05	6.09	5.23	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.08	6.96	6.10	5.27	4.56	-	-
3.0	-	12.64b	13.19b	11.34	9.37	7.94	6.88	6.07	5.25	4.55	3.93	-
2.0	10.78a	13.90b	13.89a	11.19	9.26	7.88b	6.84	6.02	5.18	4.51	3.90	-
1.0	15.93b	15.85a	14.15	11.19	9.26	7.89b	6.89	5.90	5.08	4.43	3.84	-
0.0	18.56a	18.61b	14.33b	11.33	9.39	7.94	6.73	5.72	4.95	4.35	-	-
-1.0	20.00	19.82	14.50	11.33	9.25	7.71a	6.50	5.58	4.85	4.28	-	-
-2.0	20.00	20.00	14.42	11.26	9.05	7.45	6.32	5.46	4.82	-	-	-
-3.0	20.00	20.00	14.34	10.98	8.85	7.35	6.31	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2gL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	43 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

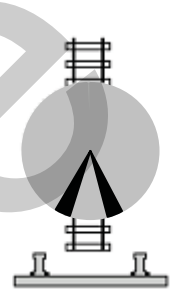
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3hU</b>	RAIL	+/- 150° - +/- 165° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.64	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.48	4.03a	3.75a	3.53	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.26	5.28	4.36a	3.94	3.47	3.06	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	5.98	5.08	4.33a	3.64a	3.40	3.03	-
1.0	6.63a	6.97a	7.59a	8.29b	7.00	5.80	4.92	4.27	3.75	3.33	2.99	-
0.0	6.40a	6.55a	6.93a	8.76	6.91	5.70	4.84	4.20	3.70	3.30	-	-
-1.0	6.53a	7.02a	9.97a	8.80	6.90	5.68	4.82	4.18	3.69	3.31	-	-
-2.0	10.30a	12.44a	12.28	8.92	6.98	5.74	4.86	4.23	3.75	-	-	-
-3.0	13.99b	11.88b	10.87b	9.12	7.14	5.88	5.00	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

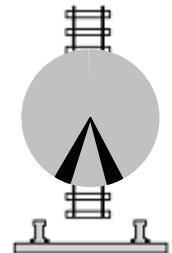


Duty	Config	Sector	Osc Axle	Safety
<b>3hU</b>	RAIL	+/- 150° - +/- 165° Over Fixed End		<b>66%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	5.75	4.79	-	-	-	-
5.0	-	-	-	7.39a	7.46a	6.90	5.81	4.89	4.13	-	-	-
4.0	-	12.76b	12.43b	10.39b	8.26	6.80	5.76	4.92	4.16	3.56	-	-
3.0	-	12.64b	13.19b	10.16	8.10	6.71	5.71b	4.90	4.15	3.56	3.07	-
2.0	10.78a	13.90b	13.32	10.03	8.01	6.66	5.70b	4.83	4.09	3.52	3.05	-
1.0	15.93b	15.85a	13.36	10.03	8.02	6.69	5.63	4.72	4.01	3.46	3.01	-
0.0	18.56a	18.61b	13.54	10.14	7.98	6.53	5.46	4.58	3.91	3.38	-	-
-1.0	20.00	20.00	13.52	9.93	7.81	6.36	5.24	4.44	3.80	3.33	-	-
-2.0	20.00	20.00	13.44	9.87	7.64	6.12	5.09	4.33	3.78	-	-	-
-3.0	20.00	20.00	13.36	9.62	7.46	6.04	5.09	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2hU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	44 of 53



# RATED LIFT CAPACITY CHART

# RIS 1530

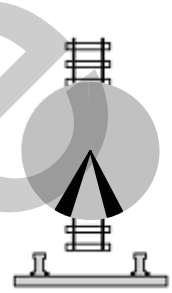
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3hL</b>	<b>RAIL</b>	+/- 150° - +/- 165° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

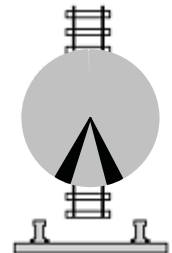


Duty	Config	Sector	Osc Axle	Safety
<b>3hL</b>	<b>RAIL</b>	+/- 150° - +/- 165° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	6.93	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.85b	7.86b	6.86	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.16	8.91	7.77	6.78	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.31b	8.87	7.66	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.31	8.77	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2hL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
PAGE	45 of 53

# RATED LIFT CAPACITY CHART

# RIS 1530

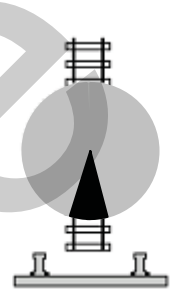
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3iU</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>67%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

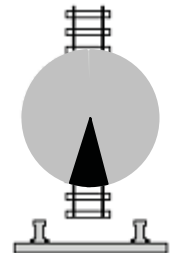


Duty	Config	Sector	Osc Axle	Safety
<b>3iU</b>	<b>RAIL</b>	<b>+/- 15° Over Fixed End</b>		<b>67%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2iU)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>46 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

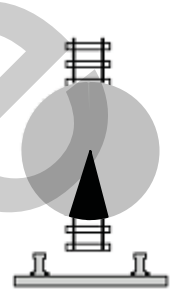
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>3iL</b>	<b>RAIL</b>	+/- 15° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

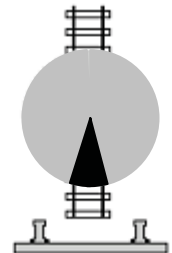


Duty	Config	Sector	Osc Axle	Safety
<b>3iL</b>	<b>RAIL</b>	+/- 15° Over Fixed End		<b>90%</b>
	 50 - 150mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see corresponding sector in duty 2 (2iL)</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>47 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530



Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>4aU</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>67%</b>
	 151 - 178mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>4aU</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>67%</b>
	 151 - 178mm			

### RADIUS

MAXIMUM LOADS



HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-

NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530



Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>4aL</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>90%</b>
	 151 - 178mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>4aL</b>	<b>RAIL</b>	$\pm 5^\circ$ Over Osc End		<b>90%</b>
	 151 - 178mm			

### RADIUS

MAXIMUM LOADS



HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-

<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>49 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530

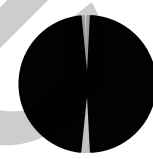
Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple



Duty	Config	Sector	Osc Axle	Safety
<b>4bU</b>	<b>RAIL</b>	$\pm 5^\circ - \pm 175^\circ$ Over Fixed End		<b>67%</b>
	 151 - 178mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	0.50	0.50	-	-	-	-	-	-
6.0	-	-	-	-	0.50	0.50	0.50	0.50	-	-	-	-
5.0	-	-	-	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-
4.0	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
3.0	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
2.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
1.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
0.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
-1.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
-2.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-
-3.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-	-	-
-4.0	0.50	0.50	0.50	0.50	-	-	-	-	-	-	-	-

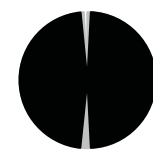


Duty	Config	Sector	Osc Axle	Safety
<b>4bU</b>	<b>RAIL</b>	$\pm 5^\circ - \pm 175^\circ$ Over Fixed End		<b>67%</b>
	 151 - 178mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	0.50	0.50	-	-	-	-	-	-
6.0	-	-	-	-	0.50	0.50	0.50	0.50	-	-	-	-
5.0	-	-	-	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-
4.0	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
3.0	-	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
2.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
1.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
0.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
-1.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-
-2.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-
-3.0	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-	-	-	-	-
-4.0	0.50	0.50	0.50	0.50	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>50 of 53</b>

# RATED LIFT CAPACITY CHART

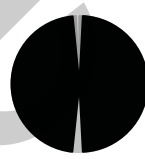
# RIS 1530



Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>4bL</b>	<b>RAIL</b>	+/- 5° - +/- 175° Over Fixed End		<b>90%</b>
	 151 - 178mm			

MINIMUM LOADS

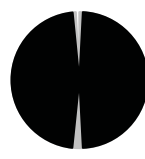
		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	1.00	1.00	-	-	-	-	-	-
	6.0	-	-	-	-	1.00	1.00	1.00	1.00	-	-	-	-
	5.0	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-
	4.0	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
	3.0	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.73	-
	2.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.86	0.68	-
	1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	0.78	0.63	-
	0.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.88	0.74	-	-
	-1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.87	0.75	-	-
	-2.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	-	-	-
	-3.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-
	-4.0	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-



Duty	Config	Sector	Osc Axle	Safety
<b>4bL</b>	<b>RAIL</b>	+/- 5° - +/- 175° Over Fixed End		<b>90%</b>
	 151 - 178mm			

MAXIMUM LOADS

		RADIUS											
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
HEIGHT	8.0	-	-	-	-	-	-	-	-	-	-	-	-
	7.0	-	-	-	-	1.00	1.00	-	-	-	-	-	-
	6.0	-	-	-	-	1.00	1.00	1.00	1.00	-	-	-	-
	5.0	-	-	-	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-
	4.0	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-
	3.0	-	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.74	-
	2.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.71	-
	1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.94	0.66	-
	0.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.84	-	-
	-1.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.78	-	-
	-2.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.98	-	-	-
	-3.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-	-	-	-	-
	-4.0	1.00	1.00	1.00	1.00	-	-	-	-	-	-	-	-





<b>NOTES</b>	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
<b>PAGE</b>	<b>51 of 53</b>

# RATED LIFT CAPACITY CHART

# RIS 1530



Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>4cU</b>	<b>RAIL</b>	<b>+/- 5° Over Fixed End</b>		<b>67%</b>
	 151 - 178mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>4cU</b>	<b>RAIL</b>	<b>+/- 5° Over Fixed End</b>		<b>67%</b>
	 151 - 178mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-



NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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# RATED LIFT CAPACITY CHART

# RIS 1530



Machine Type	RAIL060	Equipment	1.90m + 2.10m + 3.40m
Issue Date	14/03/2014	Serial No.	885213
FIRST of CLASS	Not Found	Additional Info.	Bucket Pin, Triple

Duty	Config	Sector	Osc Axle	Safety
<b>4cL</b>	<b>RAIL</b>	<b>+/- 5° Over Fixed End</b>		<b>90%</b>
	 151 - 178mm			

### RADIUS

MINIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.35a	4.38a	-	-	-	-	-	-
6.0	-	-	-	-	6.72a	6.45a	3.56a	4.21a	-	-	-	-
5.0	-	-	-	7.36a	7.45a	6.57b	5.80b	4.13a	3.92a	-	-	-
4.0	-	12.28b	10.10b	8.55b	7.39b	6.48b	5.75b	4.03a	3.75a	3.78a	-	-
3.0	-	11.92b	9.85b	8.38b	7.27b	6.40b	5.71b	4.36a	4.32a	3.62a	3.64a	-
2.0	8.77a	9.32a	9.74b	8.28b	7.20b	6.36b	5.70b	4.33a	3.64a	3.67a	4.11a	-
1.0	6.63a	6.97a	7.59a	8.29b	7.21b	6.52b	6.06a	5.05a	4.25a	3.82a	3.71a	-
0.0	6.40a	6.55a	6.93a	10.29a	9.15b	8.58b	5.47a	5.16a	4.32a	4.53a	-	-
-1.0	6.53a	7.02a	9.97a	12.88b	11.44b	7.71a	7.44a	6.07a	6.15a	4.53a	-	-
-2.0	10.30a	12.44a	13.59b	12.38b	10.25a	10.18b	9.11a	7.97a	4.96a	-	-	-
-3.0	13.99b	11.88b	10.87b	10.10b	9.24b	8.38b	7.05a	-	-	-	-	-
-4.0	14.43b	11.27b	9.23b	7.82b	-	-	-	-	-	-	-	-

Duty	Config	Sector	Osc Axle	Safety
<b>4cL</b>	<b>RAIL</b>	<b>+/- 5° Over Fixed End</b>		<b>90%</b>
	 151 - 178mm			

### RADIUS

MAXIMUM LOADS

HEIGHT	RADIUS											
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
8.0	-	-	-	-	-	-	-	-	-	-	-	-
7.0	-	-	-	-	6.53a	5.72a	-	-	-	-	-	-
6.0	-	-	-	-	6.74a	6.70a	6.41a	5.22a	-	-	-	-
5.0	-	-	-	7.39a	7.46a	7.42a	7.24a	6.78a	5.85a	-	-	-
4.0	-	12.76b	12.43b	10.86r	9.54r	8.63b	7.93r	7.40r	6.84r	5.76a	-	-
3.0	-	12.64b	13.19b	12.82b	10.78r	9.48b	8.56r	7.86r	7.35r	6.59r	4.22a	-
2.0	10.78a	13.90b	13.89a	13.74b	12.21r	10.46r	9.29r	8.42b	7.80b	7.17a	5.48a	-
1.0	15.93b	15.85a	15.20b	14.30b	12.93b	11.31b	9.97r	8.98b	8.25b	7.54r	5.58a	-
0.0	18.56a	18.61b	16.85b	14.98b	13.02b	11.51b	10.32b	9.34b	8.54b	7.61a	-	-
-1.0	20.00	20.00	17.81b	15.11b	13.12b	11.60b	10.40b	9.44b	8.54b	6.41a	-	-
-2.0	20.00	20.00	18.05b	15.33b	13.34b	11.83b	10.46b	8.99b	7.07b	-	-	-
-3.0	20.00	20.00	18.23b	15.16b	12.72b	10.45b	8.09b	-	-	-	-	-
-4.0	20.00	16.39b	12.42b	9.26b	-	-	-	-	-	-	-	-

NOTES	<b>The above data is for down cant duties only, for all up cant lifting duties see sector configuration in duty 2.</b>
	Radius/height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom and 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).
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