



Interfleet

Member of the SNC-LAVALIN Group

CERTIFICATE OF ENGINEERING ACCEPTANCE

This certificate is issued in accordance with RIS-1530-PLT Issue 5

NAME OF VEHICLE ACCEPTANCE BODY

Interfleet Technology Ltd

ACCREDITATION CODE

IF

Vehicle Class / Description

911/Rail-Ability/JCB RailMax/9A

Vehicle Owner

A P Webb Plant Hire Ltd

Issue Date

12 January, 2015

Expiry Date

12 January, 2022

Vehicle Number(s)

99709_911296-0

First Of Class

99709 911296-0 on certificate IF/0006/15 under RIS-1530-PLT Issue 5.

Authorised by:

Bryan Lowe

Interfleet Technology Ltd

OFFICIAL STAMP

Interfleet

Reason for issue and Scope of Work

Certification of upgraded Rail-Ability RailMax Road Rail Vehicle.
Manufacturer Serial No. 2084526. A. P. Webb Fleet No. RTEM 001.

Assessed for compliance with RIS-1530-PLT Issue 5.

On this certificate: Installation and test of Prolec RCI system to permit full travel and working modes on rail.

There are no other engineering changes to the RRV.

The expiry date of the previous certificate has been superseded by this new certificate.

Expiry date conforms the requirements of RIS-1530-PLT Issue 5.

Deviations associated with this certificate

None

Previous Certificate Number

IF/0591/14 : 99709 911296-0.

Customer Copy

Certificate Number: IF/0006/15

Maintenance Plan Details

Rail-Ability Rail Max RA400 Routine Maintenance Plan; RARM400RMP001; Issue 02; Dated 19-Sept-2014.

Rail-Ability Rail Max RA400 Tracked Excavator Rail Operations & Emergency Recovery Procedures; MAX001; Issue 01; Dated 03-July-2014.

Limitations of Use


1. The RRV shall only operate inside possessions.
2. When travelling, the vehicle is within W6a gauge as defined in RIS-1530-PLT.
3. When working the vehicle may be out of W6a gauge.
Minimum underside height of tail swing above rail is:
 - > 1248mm when fitted with the standard counterweight.
 - > 1344mm when fitted with the additional piggy-back counterweight.Maximum lateral tail swing gauge exceedance, as measured from the running edge of the rail:
 - > 935mm when fitted with the standard counterweight.
 - > 1251mm when fitted with the additional piggy-back counterweight.A site survey shall be undertaken to assess potential damage to infrastructure equipment prior to use.
4. The vehicle shall not on/off track, travel or work on live conductor-rail lines.
5. The vehicle shall NOT on/off track or travel under live OLE, except:
 - > It may on/off track on an approved RRAP or 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.
6. Except for the cab, when the vehicle is under live OLE access is NOT permitted onto any surfaces higher than 1.4m above rail.
7. The vehicle shall NOT on/off track or work if the adjacent line or lines are open to traffic.
8. 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.
9. The vehicle shall NOT work under live OLE.
10. The vehicle shall not travel on:
 - Track cants greater than 200mm;
 - Track gradients greater than 1:25;
 - Curve less than 80m.
11. The 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 on/off tracking, a site specific work plan shall be used taking account of the requirements in Network Rail Infrastructure Plant Manual NR/PLANT/0200.
The vehicle shall not be on/off tracked on cants greater than 100mm and/or gradients greater than 1:25.
14. The RCI shall be switched on at all times, unless in digging mode.
15. The RCI has a tandem lifting mode.
16. It is not permitted to tow and/or propel rail trailers.

Supplementary Information

1. The vehicle is a Rail-Ability hydrostatically driven rail-conversion of tracked excavator with 3.0m boom, 2.85m artic and 1.91m dipper.
The RRV can also be configured with optional 1.0m lifting dipper.
The RRV can also be configured with optional 5.5T piggy-back counterweight.
2. Manufacturer Serial No. 2084526 A. P. Webb Fleet No. RTEM001.

3. The vehicle is approved to carry 1 person seated in the drivers cab.
4. It operates on rail in high-mode only.
It has no load carrying area.
5. CCTV camera fitted to the rear and side.
6. Gross vehicle weight is 40 tonnes or 45.5 tonnes when fitted with the piggy-back counterweight.
7. Maximum speeds travelling on rail not to exceed:-
 - 20mph plain line;
 - 10mph working;
 - 5mph switches and crossings;
 - 2mph raised check/guard rails;
 - 5mph emergency recovery.
8. The vehicle emergency recovery is detailed in the Rail-Ability Operations Manual.
9. 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.
10. RCI information:
 - Fitted with a Prolec Rated Capacity Indicator (RCI);
 - Model: Prolec Liftwatch Rail;
 - Hardware: 002313-001;
 - Software: V01.01.15;
 - Duty chart reference for all configurations: RTEM001; 2084526; Dated 09-Jan-2015
 - The RCI automatically recognises the dipper/counterweight configuration to apply the appropriate duty.
 - This vehicle has Normal and Tandem Lifting Modes.
 - Vehicle is permitted to lift and carry through 360 degree operation

Authorised by:
Bryan Lowe



Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	N/A
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	87 %
System Type	RIS 1530	Date	09/01/2015
Config	ROAD	Bucket Pin - 1aU	



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
8.00	-	12.28a	9.20a	8.54a	-	-	-	-	-	-	-	-
7.00	-	11.04a	11.39a	10.28a	8.51a	6.88a	8.05a	-	-	-	-	-
6.00	10.05a	10.86a	11.38a	10.58b	9.10b	8.14a	6.56a	7.30a	7.33a	-	-	-
5.00	18.85a	15.06b	12.38b	10.47b	9.04b	7.83a	6.46a	6.94a	7.67a	6.67a	-	-
4.00	18.69b	14.79b	12.20b	10.35b	8.98b	8.95b	8.52a	7.30a	7.67a	8.02a	7.55a	-
3.00	20.05b	14.95b	12.87b	11.39b	10.64b	10.20b	9.81b	8.19a	7.33a	7.75a	6.92a	-
2.00	-	15.19a	16.52a	14.55b	12.82b	11.75b	10.99b	10.52b	8.80a	8.32a	7.13a	7.50a
1.00	-	13.11a	13.64a	14.65a	14.87b	13.27b	12.08b	9.57a	10.69b	8.87a	9.02b	7.81a
0.00	14.00a	13.22a	13.19a	13.89a	14.96b	13.34b	12.26b	11.26b	10.29b	9.34b	7.86a	-
-1.00	14.01a	13.48a	13.28a	13.49b	12.45b	11.99b	11.05b	10.27b	9.39b	8.42b	7.34b	-
-2.00	10.74b	8.93b	9.35b	10.36b	10.58b	10.10b	9.47b	8.76b	7.83b	6.72b	-	-
-3.00	10.73b	8.30b	7.28b	7.94b	7.98b	7.66b	7.13b	6.20b	4.97b	-	-	-
-4.00	10.97b	8.51b	6.91b	5.80b	4.99b	4.39b	-	-	-	-	-	-

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
8.00	-	12.51a	12.23a	11.28a	-	-	-	-	-	-	-	-
7.00	-	11.22a	11.68a	11.68a	11.65a	11.25a	9.71a	-	-	-	-	-
6.00	10.31a	11.45a	12.12a	12.23a	12.21a	11.89b	11.19b	10.66b	8.38a	-	-	-
5.00	20.31b	18.75b	17.30b	15.25b	13.69b	12.46b	11.56b	10.79b	10.19b	9.50a	-	-
4.00	19.86b	18.67b	17.43b	16.50b	14.99b	13.46b	12.22b	11.27b	10.45b	9.82b	8.57a	-
3.00	23.02b	20.89b	18.83b	17.17b	15.83b	14.29b	12.82b	11.65b	10.75b	9.96b	9.29b	-
2.00	-	23.00b	20.56b	18.38b	16.38b	14.66b	13.14b	11.91b	10.89b	10.02b	9.28b	7.50a
1.00	-	20.30a	21.93b	19.02b	16.56b	14.65b	13.13b	11.90b	10.88b	10.02b	9.22b	7.81a
0.00	17.85a	25.02a	22.53b	19.13b	16.63b	14.70b	13.18b	11.95b	10.94b	9.96b	8.80b	-
-1.00	25.52a	27.09b	22.64b	19.30b	16.79b	14.88b	13.33b	11.89b	10.58b	9.26b	7.47b	-
-2.00	31.44b	25.91b	21.81b	18.77b	16.33b	14.26b	12.38b	10.79b	9.13b	7.08b	-	-
-3.00	26.79b	22.66b	19.27b	16.08b	13.73b	11.72b	9.66b	7.45b	4.97b	-	-	-
-4.00	15.74b	14.41b	12.33b	9.98b	7.88b	5.91b	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 1 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	N/A
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	ROAD	Bucket Pin - 1bU	



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
8.00	-	12.28a	9.20a	8.54a	-	-	-	-	-	-	-	-
7.00	-	11.04a	11.39a	10.28a	8.51a	6.88a	8.05a	-	-	-	-	-
6.00	10.05a	10.86a	11.38a	10.58b	9.10b	8.14a	6.56a	7.30a	7.02	-	-	-
5.00	18.85a	15.06b	12.38b	10.47b	9.04b	7.83a	6.46a	6.94a	7.00	6.22	-	-
4.00	18.69b	14.79b	12.20b	10.35b	8.98b	8.95b	8.52a	7.30a	6.89	6.16	5.54	-
3.00	20.05b	14.95b	12.87b	11.39b	10.64b	9.82	8.56	7.56	6.73	6.05	5.47	-
2.00	-	15.19a	16.52a	13.76	11.27	9.48	8.30	7.35	6.58	5.94	5.38	4.91
1.00	-	13.11a	13.64a	13.37	10.98	9.29	8.13	7.21	6.46	5.84	5.31	4.86
0.00	14.00a	13.22a	13.19a	13.14	10.80	9.20	8.02	7.12	6.38	5.77	5.26	-
-1.00	14.01a	13.48a	13.28a	13.07	10.78	9.18	7.99	7.08	6.35	5.75	5.26	-
-2.00	10.74b	8.93b	9.35b	10.36b	10.58b	9.22	8.02	7.10	6.37	5.79	-	-
-3.00	10.73b	8.30b	7.28b	7.94b	7.98b	7.66b	7.13b	6.20b	4.97b	-	-	-
-4.00	10.97b	8.51b	6.91b	5.80b	4.99b	4.39b	-	-	-	-	-	-

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
8.00	-	12.51a	12.23a	11.28a	-	-	-	-	-	-	-	-
7.00	-	11.22a	11.68a	11.68a	11.65a	10.84	9.20	-	-	-	-	-
6.00	10.31a	11.45a	12.12a	12.23a	12.21a	10.87	9.37	8.08	7.03	-	-	-
5.00	20.31b	18.75b	17.30b	15.17	12.63	10.78	9.39	8.13	7.10	6.25	-	-
4.00	19.86b	18.67b	17.43b	14.93	12.48	10.69	9.35	8.10	7.09	6.25	5.54	-
3.00	23.02b	20.89b	18.30	14.79	12.39	10.64b	9.26	8.03	7.03	6.21	5.53	-
2.00	-	23.00b	18.30	14.78	12.31	10.44	9.02	7.87	6.91	6.12	5.47	4.91
1.00	-	20.30a	17.81	14.27	11.87	10.12	8.80	7.71	6.77	6.02	5.38	4.86
0.00	17.85a	23.09	17.35	13.89	11.57	9.88	8.56	7.49	6.64	5.91	5.32	-
-1.00	25.52a	22.91	17.16	13.69	11.36	9.71	8.43	7.33	6.50	5.83	5.27	-
-2.00	31.44b	22.92	17.07	13.59	11.26	9.56	8.24	7.26	6.46	5.81	-	-
-3.00	26.79b	22.66b	17.17	13.54	11.18	9.50	8.22	7.23	4.97b	-	-	-
-4.00	15.74b	14.41b	12.33b	9.98b	7.88b	5.91b	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	N/A
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	87 %
System Type	RIS 1530	Date	09/01/2015
Config	ROAD	Bucket Pin - 1cU	



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
8.00	-	12.28a	9.20a	8.54a	-	-	-	-	-	-	-	-
7.00	-	11.04a	11.39a	10.28a	8.51a	6.88a	8.05a	-	-	-	-	-
6.00	10.05a	10.86a	11.38a	10.58b	9.10b	8.14a	6.56a	7.30a	7.02	-	-	-
5.00	18.85a	15.06b	12.38b	10.47b	9.04b	7.83a	6.46a	6.94a	7	6.22	-	-
4.00	18.69b	14.79b	12.20b	10.35b	8.98b	8.95b	8.52a	7.30a	6.89	6.16	5.54	-
3.00	20.05b	14.95b	12.87b	11.39b	10.64b	9.82	8.56	7.56	6.73	6.05	5.47	-
2.00	-	15.19a	16.52a	13.76	11.27	9.48	8.3	7.35	6.58	5.94	5.38	4.91
1.00	-	13.11a	13.64a	13.37	10.98	9.29	8.13	7.21	6.46	5.84	5.31	4.86
0.00	14.00a	13.22a	13.19a	13.14	10.8	9.2	8.02	7.12	6.38	5.77	5.26	-
-1.00	14.01a	13.48a	13.28a	13.07	10.78	9.18	7.99	7.08	6.35	5.75	5.26	-
-2.00	10.74b	8.93b	9.35b	10.36b	10.58b	9.22	8.02	7.1	6.37	5.79	-	-
-3.00	10.73b	8.30b	7.28b	7.94b	7.98b	7.66b	7.13b	6.20b	4.97b	-	-	-
-4.00	10.97b	8.51b	6.91b	5.80b	4.99b	4.39b	-	-	-	-	-	-

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
8.00	-	12.51a	12.23a	11.28a	-	-	-	-	-	-	-	-
7.00	-	11.22a	11.68a	11.68a	11.65a	10.84	9.2	-	-	-	-	-
6.00	10.31a	11.45a	12.12a	12.23a	12.21a	10.87	9.37	8.08	7.03	-	-	-
5.00	20.31b	18.75b	17.30b	15.17	12.63	10.78	9.39	8.13	7.1	6.25	-	-
4.00	19.86b	18.67b	17.43b	14.93	12.48	10.69	9.35	8.1	7.09	6.25	5.54	-
3.00	23.02b	20.89b	18.3	14.79	12.39	10.64b	9.26	8.03	7.03	6.21	5.53	-
2.00	-	23.00b	18.3	14.78	12.31	10.44	9.02	7.87	6.91	6.12	5.47	4.91
1.00	-	20.30a	17.81	14.27	11.87	10.12	8.8	7.71	6.77	6.02	5.38	4.86
0.00	17.85a	23.09	17.35	13.89	11.57	9.88	8.56	7.49	6.64	5.91	5.32	-
-1.00	25.52a	22.91	17.16	13.69	11.36	9.71	8.43	7.33	6.5	5.83	5.27	-
-2.00	31.44b	22.92	17.07	13.59	11.26	9.56	8.24	7.26	6.46	5.81	-	-
-3.00	26.79b	22.66b	17.17	13.54	11.18	9.5	8.22	7.23	4.97b	-	-	-
-4.00	15.74b	14.41b	12.33b	9.98b	7.88b	5.91b	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 3 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2aU	



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
8.00	-	12.25a	8.56a	8.67a	9.37a	-	-	-	-	-	-	-
7.00	-	10.90a	11.29a	10.61b	8.00a	6.52a	7.02a	-	-	-	-	-
6.00	10.37a	11.18a	11.67a	10.57b	9.09b	8.00a	6.51a	7.67a	7.17a	-	-	-
5.00	19.04b	15.01b	12.34b	10.45b	9.03b	8.28a	7.16a	7.63a	6.59a	6.48a	-	-
4.00	18.64b	14.75b	12.17b	10.34b	9.17b	9.11b	7.64a	8.76a	7.02a	7.92a	6.46a	-
3.00	18.96a	16.17b	13.62b	12.02b	11.00b	10.35b	10.05b	8.33a	7.79a	8.41a	7.90a	-
2.00	-	14.43a	15.85a	15.07b	13.13b	12.01b	11.21b	9.10a	7.03a	7.33a	6.54a	7.56a
1.00	-	13.01a	13.69a	14.37a	15.10b	13.47b	12.32b	9.66a	10.70b	9.78b	7.00a	8.00b
0.00	14.16a	13.39a	13.28a	13.88a	14.49b	13.08b	12.06b	11.10b	9.13a	9.27b	8.36b	-
-1.00	13.91a	13.06a	13.38a	12.52b	12.21b	11.62b	10.90b	10.01b	9.15b	8.18b	7.09b	-
-2.00	10.72b	8.26b	9.35b	9.98b	9.96b	9.60b	9.05b	8.39b	7.48b	6.38b	-	-
-3.00	10.75b	8.32b	6.74b	7.06b	7.25b	7.04b	6.59b	5.70b	-	-	-	-
-4.00	11.06b	8.58b	6.97b	5.85b	5.05b	-	-	-	-	-	-	-

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
8.00	-	12.27a	12.15a	11.70a	10.22a	-	-	-	-	-	-	-
7.00	-	11.10a	11.67a	11.69a	11.68a	11.47a	10.35a	-	-	-	-	-
6.00	10.73a	11.80a	12.39a	12.48a	12.43a	12.02b	11.18b	10.65b	9.10a	-	-	-
5.00	19.83b	18.68b	17.68b	15.56b	13.96b	12.69b	11.65b	10.87b	10.25b	9.71b	-	-
4.00	20.20b	18.91b	17.60b	16.47b	15.30b	13.53b	12.29b	11.32b	10.49b	9.85b	9.25b	-
3.00	23.37b	21.38b	19.17b	17.41b	15.89b	14.39b	12.90b	11.73b	10.78b	9.98b	9.29b	-
2.00	-	23.44b	20.76a	18.53b	16.47b	14.65b	13.15b	11.91b	10.89b	10.02b	9.28b	7.56a
1.00	-	21.14a	22.15b	19.06b	16.57b	14.65b	13.13b	11.90b	10.88b	10.03b	9.20b	8.00b
0.00	19.29a	25.95a	22.55b	19.15b	16.64b	14.72b	13.19b	11.98b	10.94b	9.91b	8.68b	-
-1.00	26.95a	27.03b	22.55b	19.28b	16.81b	14.87b	13.28b	11.83b	10.47b	8.99b	7.09b	-
-2.00	30.82b	25.54b	21.56b	18.60b	16.19b	13.98b	12.21b	10.44b	8.55b	6.38b	-	-
-3.00	25.21b	21.57b	18.44b	15.34b	13.07b	10.82b	9.02b	6.77b	-	-	-	-
-4.00	13.66b	12.65b	10.33b	8.26b	6.33b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2aL	



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
8.00	-	12.25a	8.56a	8.67a	9.37a	-	-	-	-	-	-	-
7.00	-	10.90a	11.29a	10.61b	8.00a	6.52a	7.02a	-	-	-	-	-
6.00	10.37a	11.18a	11.67a	10.57b	9.09b	8.00a	6.51a	7.67a	7.17a	-	-	-
5.00	19.04b	15.01b	12.34b	10.45b	9.03b	8.28a	7.16a	7.63a	6.59a	6.48a	-	-
4.00	18.64b	14.75b	12.17b	10.34b	9.17b	9.11b	7.64a	8.76a	7.02a	7.92a	6.46a	-
3.00	18.96a	16.17b	13.62b	12.02b	11.00b	10.35b	10.05b	8.33a	7.79a	8.41a	7.90a	-
2.00	-	14.43a	15.85a	15.07b	13.13b	12.01b	11.21b	9.10a	7.03a	7.33a	6.54a	7.56a
1.00	-	13.01a	13.69a	14.37a	15.10b	13.47b	12.32b	9.66a	10.70b	9.78b	7.00a	8.00b
0.00	14.16a	13.39a	13.28a	13.88a	14.49b	13.08b	12.06b	11.10b	9.13a	9.27b	8.36b	-
-1.00	13.91a	13.06a	13.38a	12.52b	12.21b	11.62b	10.90b	10.01b	9.15b	8.18b	7.09b	-
-2.00	10.72b	8.26b	9.35b	9.98b	9.96b	9.60b	9.05b	8.39b	7.48b	6.38b	-	-
-3.00	10.75b	8.32b	6.74b	7.06b	7.25b	7.04b	6.59b	5.70b	-	-	-	-
-4.00	11.06b	8.58b	6.97b	5.85b	5.05b	-	-	-	-	-	-	-

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
8.00	-	12.27a	12.15a	11.70a	10.22a	-	-	-	-	-	-	-
7.00	-	11.10a	11.67a	11.69a	11.68a	11.47a	10.35a	-	-	-	-	-
6.00	10.73a	11.80a	12.39a	12.48a	12.43a	12.02b	11.18b	10.65b	9.10a	-	-	-
5.00	19.83b	18.68b	17.68b	15.56b	13.96b	12.69b	11.65b	10.87b	10.25b	9.71b	-	-
4.00	20.20b	18.91b	17.60b	16.47b	15.30b	13.53b	12.29b	11.32b	10.49b	9.85b	9.25b	-
3.00	23.37b	21.38b	19.17b	17.41b	15.89b	14.39b	12.90b	11.73b	10.78b	9.98b	9.29b	-
2.00	-	23.44b	20.76a	18.53b	16.47b	14.65b	13.15b	11.91b	10.89b	10.02b	9.28b	7.56a
1.00	-	21.14a	22.15b	19.06b	16.57b	14.65b	13.13b	11.90b	10.88b	10.03b	9.20b	8.00b
0.00	19.29a	25.95a	22.55b	19.15b	16.64b	14.72b	13.19b	11.98b	10.94b	9.91b	8.68b	-
-1.00	26.95a	27.03b	22.55b	19.28b	16.81b	14.87b	13.28b	11.83b	10.47b	8.99b	7.09b	-
-2.00	30.82b	25.54b	21.56b	18.60b	16.19b	13.98b	12.21b	10.44b	8.55b	6.38b	-	-
-3.00	25.21b	21.57b	18.44b	15.34b	13.07b	10.82b	9.02b	6.77b	-	-	-	-
-4.00	13.66b	12.65b	10.33b	8.26b	6.33b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2bU	



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
8.00	-	12.25a	8.56a	8.67a	9.37a	-	-	-	-	-	-	-
7.00	-	10.90a	11.29a	10.61b	8.00a	6.52a	7.02a	-	-	-	-	-
6.00	10.37a	11.18a	11.67a	10.57b	9.09b	8.00a	6.51a	6.78	5.91	-	-	-
5.00	19.04b	15.01b	12.34b	10.45b	9.03b	8.28a	7.16a	6.69	5.86	5.18	-	-
4.00	18.64b	14.75b	12.17b	10.34b	9.17b	8.71	7.48	6.51	5.75	5.11	4.57	-
3.00	18.96a	16.17b	13.62b	12.02b	9.99	8.34	7.21	6.32	5.60	5.01	4.50	-
2.00	-	14.43a	15.77	12.05	9.66	8.04	6.97	6.14	5.46	4.90	4.43	4.02
1.00	-	13.01a	13.69a	11.67	9.41	7.87	6.82	6.00	5.35	4.81	4.36	3.97
0.00	14.16a	13.39a	13.28a	11.47	9.26	7.79	6.73	5.93	5.28	4.76	4.32	-
-1.00	13.91a	13.06a	13.38a	11.44	9.26	7.78	6.72	5.90	5.26	4.74	4.33	-
-2.00	10.72b	8.26b	9.35b	9.98b	9.33	7.83	6.75	5.93	5.29	4.80	-	-
-3.00	10.75b	8.32b	6.74b	7.06b	7.25b	7.04b	6.59b	5.70b	-	-	-	-
-4.00	11.06b	8.58b	6.97b	5.85b	5.05b	-	-	-	-	-	-	-

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
8.00	-	12.27a	12.15a	11.70a	10.22a	-	-	-	-	-	-	-
7.00	-	11.10a	11.67a	11.69a	11.41	9.45	7.92	-	-	-	-	-
6.00	10.73a	11.80a	12.39a	12.48a	11.35	9.54	8.05	6.87	5.92	-	-	-
5.00	19.83b	18.68b	17.43	13.69b	11.23	9.49b	8.08	6.91	5.98	5.22	-	-
4.00	20.20b	18.91b	17.10	13.52b	11.12	9.43b	8.02	6.87	5.96	5.21	4.59	-
3.00	23.37b	21.38b	16.96	13.43	11.07	9.27	7.87	6.78	5.89	5.15	4.56	-
2.00	-	22.99	16.78	13.07	10.68	8.94	7.64	6.64	5.79	5.08	4.51	4.02
1.00	-	21.14a	16.03	12.55	10.27	8.65	7.42	6.48	5.63	4.97	4.44	3.97
0.00	19.29a	21.72	15.63	12.20	9.99	8.40	7.23	6.28	5.52	4.88	4.36	-
-1.00	26.95a	21.60	15.42	11.99	9.81	8.26	7.09	6.15	5.41	4.80	4.33	-
-2.00	30.82b	21.60	15.40	11.95	9.75	8.12	6.97	6.06	5.34	4.80	-	-
-3.00	25.21b	21.57b	15.49	11.89	9.65	8.06	6.94	6.07	-	-	-	-
-4.00	13.66b	12.65b	10.33b	8.26b	6.33b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 6 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2bL	



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
8.00	-	12.25a	8.56a	8.67a	9.37a	-	-	-	-	-	-	-
7.00	-	10.90a	11.29a	10.61b	8.00a	6.52a	7.02a	-	-	-	-	-
6.00	10.37a	11.18a	11.67a	10.57b	9.09b	8.00a	6.51a	7.67a	7.17a	-	-	-
5.00	19.04b	15.01b	12.34b	10.45b	9.03b	8.28a	7.16a	7.63a	6.59a	6.48a	-	-
4.00	18.64b	14.75b	12.17b	10.34b	9.17b	9.11b	7.64a	8.76a	7.02a	7.92a	6.46a	-
3.00	18.96a	16.17b	13.62b	12.02b	11.00b	10.35b	10.05b	8.33a	7.79a	8.41a	7.90a	-
2.00	-	14.43a	15.85a	15.07b	13.13b	12.01b	11.21b	9.10a	7.03a	7.33a	6.54a	7.56a
1.00	-	13.01a	13.69a	14.37a	15.10b	13.47b	12.32b	9.66a	10.70b	9.78b	7.00a	8.00b
0.00	14.16a	13.39a	13.28a	13.88a	14.49b	13.08b	12.06b	11.10b	9.13a	9.27b	8.36b	-
-1.00	13.91a	13.06a	13.38a	12.52b	12.21b	11.62b	10.90b	10.01b	9.15b	8.18b	7.09b	-
-2.00	10.72b	8.26b	9.35b	9.98b	9.96b	9.60b	9.05b	8.39b	7.48b	6.38b	-	-
-3.00	10.75b	8.32b	6.74b	7.06b	7.25b	7.04b	6.59b	5.70b	-	-	-	-
-4.00	11.06b	8.58b	6.97b	5.85b	5.05b	-	-	-	-	-	-	-

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
8.00	-	12.27a	12.15a	11.70a	10.22a	-	-	-	-	-	-	-
7.00	-	11.10a	11.67a	11.69a	11.68a	11.47a	10.35a	-	-	-	-	-
6.00	10.73a	11.80a	12.39a	12.48a	12.43a	12.02b	11.18b	10.65b	9.10a	-	-	-
5.00	19.83b	18.68b	17.68b	15.56b	13.96b	12.69b	11.65b	10.87b	10.25b	9.71b	-	-
4.00	20.20b	18.91b	17.60b	16.47b	15.30b	13.53b	12.29b	11.32b	10.49b	9.85b	9.25b	-
3.00	23.37b	21.38b	19.17b	17.41b	15.89b	14.39b	12.90b	11.73b	10.78b	9.98b	9.29b	-
2.00	-	23.44b	20.76a	18.53b	16.47b	14.65b	13.15b	11.91b	10.89b	10.02b	9.28b	7.56a
1.00	-	21.14a	22.15b	19.06b	16.57b	14.65b	13.13b	11.90b	10.88b	10.03b	9.20b	8.00b
0.00	19.29a	25.95a	22.55b	19.15b	16.64b	14.72b	13.19b	11.98b	10.94b	9.91b	8.68b	-
-1.00	26.95a	27.03b	22.55b	19.28b	16.81b	14.87b	13.28b	11.83b	10.47b	8.99b	7.09b	-
-2.00	30.82b	25.54b	21.56b	18.60b	16.19b	13.98b	12.21b	10.44b	8.55b	6.38b	-	-
-3.00	25.21b	21.57b	18.44b	15.34b	13.07b	10.82b	9.02b	6.77b	-	-	-	-
-4.00	13.66b	12.65b	10.33b	8.26b	6.33b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 7 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2cU	



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
8.00	-	12.25a	8.56a	7.88	6.35	-	-	-	-	-	-	-
7.00	-	10.90a	10.08	7.94	6.47	5.38	4.54	-	-	-	-	-
6.00	10.37a	11.18a	9.78	7.74	6.34	5.30	4.53	3.89	3.37	-	-	-
5.00	18.49	12.44	9.17	7.32	6.04	5.10	4.38	3.80	3.32	2.92	-	-
4.00	17.85	11.99	8.85	6.90	5.61	4.81	4.17	3.64	3.22	2.85	2.53	-
3.00	16.68	11.27	8.38	6.54	5.31	4.48	3.92	3.47	3.08	2.75	2.46	-
2.00	-	10.47	7.83	6.17	5.02	4.21	3.71	3.30	2.95	2.66	2.39	2.16
1.00	-	9.84	7.40	5.85	4.79	4.06	3.57	3.17	2.85	2.57	2.33	2.12
0.00	14.02	9.57	7.17	5.68	4.67	3.99	3.49	3.10	2.78	2.52	2.30	-
-1.00	13.89	9.50	7.12	5.65	4.67	3.98	3.48	3.08	2.76	2.50	2.30	-
-2.00	10.72b	8.26b	7.18	5.71	4.72	4.02	3.51	3.11	2.79	2.56	-	-
-3.00	10.75b	8.32b	6.74b	5.83	4.83	4.12	3.60	3.20	-	-	-	-
-4.00	11.06b	8.58b	6.97b	5.85b	5.04	-	-	-	-	-	-	-

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
8.00	-	12.27a	10.15	7.93	6.36	-	-	-	-	-	-	-
7.00	-	11.10a	10.26	8.18	6.65	5.48	4.57	-	-	-	-	-
6.00	10.73a	11.80a	10.15	8.14	6.75	5.60	4.70	3.98	3.38	-	-	-
5.00	18.63	13.03	9.97	8.03	6.69	5.63	4.73	4.01	3.43	2.95	-	-
4.00	18.17	12.76	9.79	7.92	6.60	5.53	4.69	3.97	3.42	2.94	2.55	-
3.00	17.13	12.35	9.45	7.59	6.29	5.31	4.53	3.89	3.35	2.89	2.52	-
2.00	-	10.93	8.67	7.05	5.92	5.02	4.32	3.76	3.25	2.82	2.47	2.16
1.00	-	10.24	8.05	6.60	5.55	4.76	4.11	3.61	3.11	2.72	2.40	2.12
0.00	14.15	9.96	7.72	6.30	5.31	4.54	3.95	3.43	3.01	2.63	2.33	-
-1.00	14.11	9.86	7.55	6.12	5.15	4.40	3.81	3.31	2.90	2.56	2.30	-
-2.00	14.16	9.86	7.53	6.09	5.09	4.29	3.71	3.23	2.84	2.56	-	-
-3.00	14.30	9.99	7.61	6.04	5.01	4.23	3.68	3.23	-	-	-	-
-4.00	13.66b	10.13	7.65	6.11	5.07	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 8 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2cL	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	9.86	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	8.45	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	8.32	7.31	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.33	8.15	7.20	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.51	9.09	7.98	7.08	6.31
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	10.26	8.89	7.82	6.96	6.23
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	10.13	8.78	7.74	6.91	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	8.74	7.71	6.92	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	9.88	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	9.88	8.50	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.22b	9.81b	8.49	7.35	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.85	11.11	9.80b	8.40	7.29	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	12.76	11.10	9.65	8.28	7.21	6.31
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	12.81	11.12	9.38	8.10	7.10	6.23
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	12.90	10.78	9.21	7.95	6.97	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	12.65	10.55	9.01	7.82	6.92	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.40	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2dU	



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
8.00	-	10.10	7.67	6.05	4.88	-	-	-	-	-	-	-
7.00	-	7.19a	7.70	6.12	5.00	4.15	3.49	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	5.92	4.87	4.07	3.47	2.97	2.55	-	-	-
5.00	4.01a	3.81a	3.18a	5.48	4.55	3.86	3.32	2.88	2.51	2.18	-	-
4.00	4.08a	3.42a	4.40a	5.05	4.11	3.57	3.10	2.71	2.40	2.11	1.86	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.22	2.85	2.53	2.25	2.02	1.80	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.62	2.36	2.12	1.91	1.72	1.56
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.48	2.23	2.01	1.82	1.66	1.51
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.72	2.40	2.16	1.95	1.77	1.63	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.16	2.72	2.39	2.13	1.93	1.76	1.63	-
-2.00	4.44a	3.37a	4.82	3.87	3.22	2.76	2.43	2.17	1.96	1.82	-	-
-3.00	9.09	6.46	4.96	4.00	3.34	2.87	2.52	2.27	-	-	-	-
-4.00	9.45	6.77	5.22	4.23	3.56	-	-	-	-	-	-	-

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
8.00	-	10.17	7.77	6.09	4.88	-	-	-	-	-	-	-
7.00	-	7.60a	7.87	6.35	5.17	4.25	3.52	-	-	-	-	-
6.00	3.96a	6.27a	7.76	6.30	5.26	4.36	3.64	3.05	2.56	-	-	-
5.00	5.07a	8.09a	7.56	6.18	5.20	4.39	3.67	3.09	2.62	2.21	-	-
4.00	12.78	9.38	7.38	6.07	5.11	4.29	3.63	3.05	2.60	2.21	1.89	-
3.00	3.57a	8.97	7.04	5.74	4.79	4.07	3.46	2.97	2.53	2.16	1.85	-
2.00	-	7.61	6.26	5.19	4.42	3.77	3.25	2.84	2.43	2.09	1.81	1.56
1.00	-	6.96	5.67	4.75	4.06	3.51	3.05	2.68	2.29	1.98	1.74	1.51
0.00	9.08a	6.71	5.35	4.46	3.82	3.29	2.88	2.50	2.19	1.90	1.66	-
-1.00	9.10	6.63	5.21	4.30	3.67	3.17	2.75	2.38	2.08	1.82	1.63	-
-2.00	9.17	6.66	5.20	4.28	3.63	3.05	2.65	2.30	2.02	1.82	-	-
-3.00	9.32	6.81	5.30	4.24	3.54	3.00	2.63	2.31	-	-	-	-
-4.00	9.59	6.95	5.34	4.31	3.61	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 10 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2dL	



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
8.00	-	10.73a	11.57a	12.47a	12.13	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	9.95	8.22	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	8.19	6.93	5.86	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	7.95	6.79	5.79	4.95	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	8.97	7.59	6.53	5.60	4.83	4.18	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	8.40	7.18	6.20	5.36	4.67	4.08	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	6.83	5.91	5.13	4.50	3.96	3.49
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	6.60	5.68	4.95	4.35	3.85	3.42
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	6.47	5.56	4.84	4.27	3.79	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.57	6.45	5.52	4.81	4.25	3.81	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	7.65	6.51	5.58	4.87	4.34	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	12.14	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	10.10	8.26	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.15	8.46	7.06	5.89	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.04b	8.51	7.12	5.98	5.00	-	-
4.00	18.29a	17.48b	16.76b	14.56	11.83	9.97	8.44	7.05	5.94	4.99	4.22	-
3.00	3.57a	17.33b	16.63b	14.38	11.73	9.80	8.18	6.93	5.83	4.90	4.17	-
2.00	-	9.24a	17.86b	14.20	11.34	9.31	7.84	6.73	5.67	4.79	4.09	3.49
1.00	-	9.45a	15.27a	13.40	10.72	8.88	7.51	6.47	5.42	4.62	3.98	3.42
0.00	9.08a	15.33a	16.85	12.85	10.30	8.52	7.25	6.16	5.25	4.47	3.85	-
-1.00	18.29a	25.35	16.79	12.55	10.05	8.32	7.04	5.95	5.07	4.35	3.81	-
-2.00	29.94a	23.87b	16.78	12.53	9.98	8.13	6.88	5.81	4.96	4.34	-	-
-3.00	22.37b	21.53b	16.98	12.45	9.83	8.03	6.83	5.82	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2eU	



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
8.00	-	8.02	6.11	4.80	3.84	-	-	-	-	-	-	-
7.00	-	7.19a	6.14	4.87	3.96	3.27	2.72	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	4.67	3.83	3.19	2.70	2.28	1.94	-	-	-
5.00	4.01a	3.81a	3.18a	4.25	3.53	2.98	2.55	2.20	1.89	1.63	-	-
4.00	4.08a	3.42a	4.93	3.83	3.10	2.69	2.34	2.03	1.78	1.56	1.34	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.35	2.09	1.85	1.64	1.46	1.24	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	1.87	1.68	1.51	1.36	1.14	0.95
1.00	-	1.83a	2.16a	2.02a	2.29	1.93	1.73	1.55	1.41	1.23	1.05	0.88
0.00	2.14a	2.16a	2.08a	2.17a	2.17	1.86	1.65	1.49	1.34	1.16	1.00	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.17	1.86	1.64	1.46	1.32	1.14	1.01	-
-2.00	4.44a	3.37a	3.36	2.69	2.23	1.91	1.67	1.50	1.36	1.23	-	-
-3.00	6.35	4.55	3.50	2.81	2.35	2.01	1.77	1.60	-	-	-	-
-4.00	6.69	4.84	3.75	3.04	2.56	-	-	-	-	-	-	-

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
8.00	-	8.09	6.20	4.84	3.84	-	-	-	-	-	-	-
7.00	-	7.60a	6.30	5.09	4.13	3.36	2.74	-	-	-	-	-
6.00	3.96a	6.27a	6.19	5.04	4.22	3.47	2.87	2.37	1.95	-	-	-
5.00	5.07a	7.60	6.00	4.93	4.16	3.50	2.89	2.40	2.00	1.66	-	-
4.00	9.81	7.33	5.83	4.82	4.07	3.40	2.85	2.36	1.98	1.65	1.37	-
3.00	3.57a	6.94	5.50	4.50	3.76	3.18	2.69	2.28	1.91	1.60	1.32	-
2.00	-	5.64	4.75	3.97	3.39	2.89	2.49	2.16	1.82	1.53	1.26	0.95
1.00	-	5.02	4.18	3.55	3.04	2.63	2.28	2.00	1.68	1.43	1.16	0.88
0.00	6.37	4.78	3.87	3.26	2.81	2.42	2.12	1.83	1.58	1.33	1.05	-
-1.00	6.36	4.71	3.73	3.10	2.67	2.30	2.00	1.71	1.47	1.23	1.01	-
-2.00	6.42	4.73	3.73	3.09	2.63	2.19	1.90	1.63	1.41	1.23	-	-
-3.00	6.57	4.88	3.83	3.05	2.54	2.14	1.87	1.64	-	-	-	-
-4.00	6.82	5.01	3.86	3.12	2.61	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 12 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2eL	



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
8.00	-	10.73a	11.57a	11.76	9.24	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.44	7.71	6.40	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	7.59	6.37	5.31	4.45	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	7.27	6.13	5.16	4.38	3.73	-	-
4.00	4.08a	3.42a	4.40a	7.69a	8.07	6.83	5.76	4.90	4.21	3.62	3.11	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	6.28	5.35	4.60	3.98	3.46	3.01	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.99	4.33	3.77	3.30	2.89	2.54
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	4.75	4.12	3.60	3.16	2.79	2.47
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	4.63	4.00	3.50	3.09	2.74	-
-1.00	1.95a	1.74a	2.18a	2.25a	6.60	5.45	4.61	3.97	3.47	3.06	2.75	-
-2.00	4.44a	3.37a	6.02a	8.29	6.70	5.53	4.66	4.02	3.52	3.16	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	6.88	5.70	4.83	4.18	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	11.83	9.25	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	9.70	7.85	6.44	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	9.76	8.03	6.65	5.44	4.47	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	9.64	8.07	6.69	5.50	4.56	3.78	-	-
4.00	18.29a	17.48b	14.48b	11.50b	9.53	7.91	6.62	5.43	4.53	3.76	3.14	-
3.00	3.57a	17.33b	14.30	11.26	9.12	7.58	6.35	5.31	4.42	3.69	3.09	-
2.00	-	9.24a	13.22	10.39	8.54	7.14	6.01	5.10	4.27	3.58	3.02	2.54
1.00	-	9.45a	11.89	9.70	7.99	6.74	5.68	4.85	4.03	3.41	2.91	2.47
0.00	9.08a	15.33a	11.69	9.23	7.62	6.40	5.41	4.56	3.88	3.27	2.79	-
-1.00	18.29a	15.86	11.45	8.97	7.39	6.19	5.20	4.36	3.71	3.16	2.75	-
-2.00	25.79	15.90	11.44	8.95	7.33	6.00	5.04	4.23	3.60	3.16	-	-
-3.00	22.37b	16.18	11.61	8.88	7.19	5.91	4.99	4.25	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2FU	



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
8.00	-	6.76	5.16	4.05	3.22	-	-	-	-	-	-	-
7.00	-	6.78	5.19	4.12	3.34	2.74	2.26	-	-	-	-	-
6.00	3.13a	4.60a	4.91	3.93	3.21	2.66	2.24	1.88	1.57	-	-	-
5.00	4.01a	3.81a	3.18a	3.52	2.92	2.46	2.10	1.79	1.53	1.25	-	-
4.00	4.08a	3.42a	4.03	3.11	2.50	2.17	1.88	1.63	1.42	1.15	0.89	-
3.00	1.21a	1.26a	1.66a	1.76a	2.20	1.84	1.64	1.45	1.24	1.01	0.80	-
2.00	-	2.25a	2.58a	2.42	1.26a	1.58	1.42	1.26	1.06	0.87	0.69	0.53
1.00	-	1.83a	2.16a	2.02a	1.71	1.43	1.28	1.08	0.91	0.75	0.60	0.47
0.00	2.14a	2.16a	2.08a	1.96	1.59	1.36	1.17	0.98	0.82	0.68	0.56	-
-1.00	1.95a	1.74a	2.18a	1.93	1.59	1.36	1.15	0.95	0.79	0.66	0.57	-
-2.00	4.44a	3.30	2.51	2.00	1.65	1.41	1.20	1.00	0.84	0.74	-	-
-3.00	4.77	3.44	2.64	2.12	1.76	1.51	1.33	1.14	-	-	-	-
-4.00	5.10	3.72	2.88	2.34	1.97	-	-	-	-	-	-	-

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
8.00	-	6.82	5.25	4.09	3.22	-	-	-	-	-	-	-
7.00	-	6.83	5.35	4.33	3.50	2.82	2.28	-	-	-	-	-
6.00	3.96a	6.27a	5.24	4.29	3.59	2.94	2.40	1.96	1.58	-	-	-
5.00	5.07a	6.36	5.06	4.18	3.53	2.96	2.43	1.99	1.63	1.29	-	-
4.00	8.03	6.10	4.89	4.07	3.45	2.86	2.39	1.95	1.62	1.28	0.92	-
3.00	3.57a	5.73	4.57	3.76	3.14	2.65	2.23	1.88	1.55	1.21	0.87	-
2.00	-	4.48	3.85	3.24	2.79	2.37	2.03	1.75	1.46	1.12	0.81	0.53
1.00	-	3.89	3.30	2.83	2.44	2.12	1.83	1.60	1.29	0.97	0.71	0.47
0.00	4.79	3.66	3.01	2.56	2.22	1.91	1.67	1.43	1.15	0.85	0.61	-
-1.00	4.78	3.60	2.87	2.40	2.08	1.79	1.55	1.29	1.00	0.75	0.57	-
-2.00	4.84	3.62	2.87	2.39	2.04	1.69	1.45	1.18	0.91	0.74	-	-
-3.00	4.98	3.75	2.96	2.35	1.96	1.63	1.43	1.19	-	-	-	-
-4.00	5.21	3.88	3.00	2.41	2.02	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2fl	



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
8.00	-	10.73a	10.37	7.98	6.27	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.08	6.46	5.15	4.15	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	6.26	5.03	4.13	3.37	2.76	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.77	4.71	3.90	3.24	2.69	2.22	-	-
4.00	4.08a	3.42a	4.40a	6.55	5.09	4.25	3.56	2.99	2.53	2.11	1.76	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.73	3.17	2.71	2.31	1.97	1.66	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.84	2.45	2.11	1.82	1.55	1.31
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.62	2.25	1.95	1.68	1.45	1.25
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.96	2.50	2.15	1.85	1.61	1.40	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.61	2.96	2.48	2.12	1.83	1.59	1.42	-
-2.00	4.44a	3.37a	6.02a	4.70	3.71	3.03	2.54	2.16	1.88	1.68	-	-
-3.00	10.60b	8.21b	6.43	4.90	3.90	3.19	2.69	2.32	-	-	-	-
-4.00	10.97b	8.51b	6.81	5.27	4.24	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.51	8.04	6.27	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.40	6.72	5.30	4.19	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.33	6.85	5.48	4.38	3.50	2.78	-	-	-
5.00	5.07a	8.09a	9.75a	8.17	6.77	5.52	4.43	3.55	2.86	2.27	-	-
4.00	18.62b	13.06	9.95	8.01	6.64	5.36	4.36	3.49	2.83	2.26	1.79	-
3.00	3.57a	12.45	9.45	7.53	6.14	5.02	4.11	3.37	2.72	2.18	1.74	-
2.00	-	9.24a	8.32	6.76	5.56	4.57	3.79	3.18	2.58	2.08	1.67	1.31
1.00	-	9.44	7.46	6.09	5.00	4.17	3.48	2.94	2.36	1.92	1.57	1.25
0.00	9.08a	9.06	7.00	5.63	4.63	3.84	3.23	2.67	2.21	1.79	1.45	-
-1.00	13.04	8.95	6.79	5.37	4.41	3.65	3.03	2.49	2.05	1.69	1.42	-
-2.00	13.15	8.98	6.79	5.35	4.34	3.47	2.88	2.37	1.96	1.68	-	-
-3.00	13.40	9.21	6.93	5.28	4.21	3.39	2.84	2.38	-	-	-	-
-4.00	13.59b	9.42	6.98	5.39	4.31	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2gU	



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
8.00	-	6.25	4.75	3.71	2.92	-	-	-	-	-	-	-
7.00	-	6.26	4.78	3.77	3.04	2.48	2.02	-	-	-	-	-
6.00	3.13a	4.60a	4.50	3.58	2.92	2.40	2.01	1.67	1.37	-	-	-
5.00	4.01a	3.81a	3.18a	3.17	2.62	2.20	1.86	1.58	1.31	0.99	-	-
4.00	4.08a	3.42a	3.62	2.77	2.20	1.91	1.65	1.42	1.16	0.89	0.65	-
3.00	1.21a	1.26a	1.66a	1.76a	1.90	1.58	1.40	1.18	0.96	0.75	0.56	-
2.00	-	2.25a	2.58a	2.07	1.26a	1.32	1.13	0.95	0.77	0.61	0.45	0.31
1.00	-	1.83a	2.16a	1.77	1.41	1.11	0.93	0.77	0.62	0.48	0.36	0.25
0.00	2.14a	2.16a	2.08a	1.62	1.29	1.02	0.82	0.67	0.53	0.42	0.32	-
-1.00	1.95a	1.74a	2.05	1.59	1.30	1.02	0.81	0.64	0.51	0.40	0.33	-
-2.00	3.95	2.79	2.10	1.66	1.36	1.09	0.86	0.69	0.56	0.48	-	-
-3.00	4.10	2.93	2.23	1.78	1.47	1.23	0.99	0.83	-	-	-	-
-4.00	4.42	3.21	2.47	1.99	1.68	-	-	-	-	-	-	-

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
8.00	-	6.31	4.84	3.75	2.93	-	-	-	-	-	-	-
7.00	-	6.32	4.94	3.99	3.20	2.56	2.05	-	-	-	-	-
6.00	3.96a	6.14	4.83	3.94	3.29	2.68	2.17	1.75	1.39	-	-	-
5.00	5.07a	5.85	4.65	3.83	3.24	2.70	2.20	1.78	1.44	1.03	-	-
4.00	7.36	5.59	4.48	3.72	3.15	2.60	2.16	1.74	1.43	1.02	0.68	-
3.00	3.57a	5.22	4.16	3.41	2.84	2.39	2.00	1.67	1.34	0.95	0.63	-
2.00	-	3.97	3.44	2.90	2.49	2.11	1.80	1.54	1.21	0.85	0.57	0.31
1.00	-	3.38	2.89	2.49	2.15	1.86	1.60	1.39	1.00	0.71	0.47	0.25
0.00	4.12	3.15	2.60	2.21	1.92	1.65	1.44	1.15	0.87	0.59	0.37	-
-1.00	4.11	3.09	2.46	2.06	1.78	1.53	1.31	0.98	0.72	0.49	0.33	-
-2.00	4.17	3.11	2.46	2.04	1.74	1.43	1.17	0.87	0.63	0.48	-	-
-3.00	4.31	3.24	2.55	2.00	1.66	1.37	1.13	0.88	-	-	-	-
-4.00	4.54	3.37	2.58	2.07	1.72	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 16 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2gl	



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
8.00	-	10.73a	9.93	7.72	6.09	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	7.82	6.28	5.04	4.07	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	6.08	4.92	4.05	3.33	2.73	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.61	4.60	3.83	3.19	2.66	2.20	-	-
4.00	4.08a	3.42a	4.40a	6.33	4.95	4.16	3.50	2.95	2.50	2.10	1.75	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.65	3.12	2.67	2.29	1.96	1.65	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.79	2.43	2.09	1.81	1.55	1.31
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.58	2.23	1.94	1.67	1.45	1.25
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.90	2.47	2.13	1.84	1.60	1.40	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.53	2.90	2.45	2.10	1.82	1.58	1.41	-
-2.00	4.44a	3.37a	5.95	4.55	3.62	2.97	2.50	2.14	1.86	1.67	-	-
-3.00	10.60b	8.21b	6.16	4.75	3.80	3.13	2.65	2.29	-	-	-	-
-4.00	10.97b	8.51b	6.54	5.09	4.13	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.06	7.78	6.10	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.13	6.53	5.17	4.11	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.06	6.67	5.35	4.30	3.45	2.75	-	-	-
5.00	5.07a	8.09a	9.75a	7.90	6.58	5.39	4.34	3.50	2.82	2.25	-	-
4.00	17.29	12.32	9.53	7.75	6.45	5.23	4.28	3.44	2.80	2.24	1.78	-
3.00	3.57a	11.74	9.05	7.29	5.97	4.91	4.04	3.33	2.69	2.16	1.73	-
2.00	-	9.24a	7.98	6.54	5.41	4.47	3.73	3.13	2.56	2.06	1.66	1.31
1.00	-	8.92	7.16	5.88	4.87	4.08	3.42	2.90	2.34	1.91	1.57	1.25
0.00	9.08a	8.56	6.73	5.44	4.51	3.76	3.18	2.64	2.19	1.78	1.45	-
-1.00	11.96	8.46	6.52	5.19	4.29	3.57	2.99	2.46	2.04	1.68	1.41	-
-2.00	12.06	8.49	6.52	5.17	4.23	3.40	2.84	2.34	1.94	1.67	-	-
-3.00	12.28	8.70	6.66	5.11	4.10	3.32	2.80	2.35	-	-	-	-
-4.00	12.67	8.90	6.71	5.21	4.20	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 17 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2hU	



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
8.00	-	7.58	5.78	4.54	3.62	-	-	-	-	-	-	-
7.00	-	7.19a	5.81	4.61	3.75	3.08	2.56	-	-	-	-	-
6.00	3.13a	4.60a	5.52	4.41	3.62	3.01	2.54	2.14	1.81	-	-	-
5.00	4.01a	3.81a	3.18a	4.00	3.32	2.80	2.39	2.06	1.77	1.51	-	-
4.00	4.08a	3.42a	4.62	3.58	2.89	2.51	2.18	1.89	1.66	1.44	1.18	-
3.00	1.21a	1.26a	1.66a	1.76a	2.58	2.18	1.93	1.71	1.52	1.33	1.09	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.90	1.71	1.55	1.39	1.19	0.99	0.80
1.00	-	1.83a	2.16a	2.02a	2.09	1.75	1.57	1.42	1.25	1.06	0.89	0.74
0.00	2.14a	2.16a	2.08a	2.17a	1.96	1.69	1.50	1.35	1.16	1.00	0.85	-
-1.00	1.95a	1.74a	2.18a	2.25a	1.97	1.69	1.49	1.33	1.14	0.98	0.86	-
-2.00	4.44a	3.37a	3.07	2.45	2.03	1.74	1.52	1.36	1.19	1.06	-	-
-3.00	5.80	4.16	3.20	2.57	2.14	1.84	1.62	1.46	-	-	-	-
-4.00	6.13	4.45	3.44	2.80	2.36	-	-	-	-	-	-	-

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
8.00	-	7.65	5.87	4.58	3.63	-	-	-	-	-	-	-
7.00	-	7.60a	5.97	4.83	3.91	3.17	2.58	-	-	-	-	-
6.00	3.96a	6.27a	5.86	4.78	4.00	3.29	2.71	2.23	1.82	-	-	-
5.00	5.07a	7.17	5.68	4.67	3.94	3.31	2.73	2.26	1.87	1.54	-	-
4.00	9.19	6.90	5.50	4.56	3.86	3.21	2.69	2.22	1.86	1.53	1.21	-
3.00	3.57a	6.52	5.17	4.24	3.54	3.00	2.53	2.14	1.79	1.49	1.17	-
2.00	-	5.24	4.44	3.72	3.18	2.71	2.33	2.02	1.70	1.42	1.10	0.80
1.00	-	4.63	3.87	3.30	2.84	2.46	2.13	1.86	1.55	1.29	1.01	0.74
0.00	5.82	4.39	3.57	3.02	2.60	2.25	1.97	1.69	1.45	1.16	0.90	-
-1.00	5.80	4.32	3.43	2.86	2.46	2.13	1.84	1.57	1.35	1.07	0.86	-
-2.00	5.87	4.34	3.43	2.85	2.42	2.02	1.74	1.49	1.26	1.06	-	-
-3.00	6.01	4.48	3.53	2.80	2.34	1.96	1.72	1.50	-	-	-	-
-4.00	6.25	4.62	3.56	2.87	2.40	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 18 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2hL	



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
8.00	-	10.73a	11.57a	9.2	7.33	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	7.51	6.14	5.02	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	7.33	6.02	4.99	4.15	3.46	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	6.88	5.69	4.76	4.01	3.39	2.86	-	-
4.00	4.08a	3.42a	4.40a	7.78	6.23	5.24	4.43	3.76	3.22	2.75	2.34	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	4.71	4.04	3.48	3.01	2.60	2.24	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.70	3.23	2.81	2.45	2.13	1.85
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	3.48	3.03	2.65	2.32	2.03	1.79
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	3.36	2.92	2.55	2.25	1.99	-
-1.00	1.95a	1.74a	2.18a	2.25a	4.76	3.94	3.35	2.89	2.52	2.22	2.00	-
-2.00	4.44a	3.37a	6.02a	6.06	4.85	4.01	3.40	2.94	2.57	2.31	-	-
-3.00	10.60b	8.21b	6.66b	6.26	5.04	4.18	3.55	3.09	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	12.01	9.26	7.34	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	9.62	7.75	6.28	5.06	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.56	7.88	6.46	5.25	4.27	3.47	-	-	-
5.00	5.07a	8.09a	9.75a	9.39	7.80	6.50	5.29	4.32	3.55	2.90	-	-
4.00	18.29a	14.96	11.46	9.23	7.67	6.34	5.23	4.26	3.52	2.89	2.37	-
3.00	3.57a	14.42	10.96	8.75	7.22	6.01	4.98	4.15	3.42	2.82	2.32	-
2.00	-	9.24a	9.83	7.98	6.69	5.55	4.66	3.95	3.28	2.71	2.25	1.85
1.00	-	9.45a	8.97	7.36	6.15	5.15	4.34	3.72	3.06	2.56	2.15	1.79
0.00	9.08a	11.03	8.51	6.94	5.77	4.82	4.10	3.44	2.91	2.43	2.04	-
-1.00	15.88	10.92	8.30	6.70	5.55	4.63	3.90	3.26	2.75	2.32	2.00	-
-2.00	15.99	10.95	8.29	6.69	5.48	4.46	3.75	3.14	2.65	2.31	-	-
-3.00	16.24	11.18	8.44	6.62	5.35	4.37	3.71	3.15	-	-	-	-
-4.00	13.59b	11.39	8.49	6.73	5.45	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2iU	



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
8.00	-	10.73a	8.50	6.68	5.38	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	6.75	5.51	4.57	3.85	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.54	5.37	4.49	3.83	3.28	2.83	-	-	-
5.00	4.01a	3.81a	3.18a	6.10	5.05	4.28	3.68	3.19	2.78	2.43	-	-
4.00	4.08a	3.42a	4.40a	5.65	4.60	3.97	3.45	3.02	2.67	2.36	2.08	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.62	3.19	2.83	2.52	2.26	2.02	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.97	2.66	2.39	2.15	1.94	1.76
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.82	2.53	2.28	2.06	1.88	1.71
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.11	2.74	2.45	2.21	2.01	1.84	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.62	3.11	2.73	2.43	2.20	2.00	1.85	-
-2.00	4.44a	3.37a	5.55	4.44	3.69	3.16	2.76	2.46	2.23	2.06	-	-
-3.00	10.60b	7.48	5.70	4.57	3.81	3.26	2.86	2.57	-	-	-	-
-4.00	10.97b	7.80	5.96	4.81	4.03	-	-	-	-	-	-	-

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
8.00	-	11.36	8.60	6.73	5.38	-	-	-	-	-	-	-
7.00	-	7.60a	8.71	6.99	5.68	4.67	3.88	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	6.94	5.77	4.79	4.00	3.37	2.84	-	-	-
5.00	5.07a	8.09a	8.39	6.82	5.72	4.82	4.03	3.40	2.89	2.46	-	-
4.00	14.60	10.53	8.20	6.70	5.62	4.71	3.99	3.36	2.87	2.45	2.11	-
3.00	3.57a	10.10	7.84	6.36	5.29	4.48	3.82	3.28	2.80	2.40	2.07	-
2.00	-	8.68	7.05	5.80	4.91	4.18	3.61	3.15	2.71	2.33	2.03	1.76
1.00	-	8.00	6.43	5.35	4.54	3.91	3.40	2.99	2.56	2.23	1.96	1.71
0.00	9.08a	7.73	6.10	5.04	4.30	3.69	3.23	2.81	2.46	2.14	1.88	-
-1.00	10.69	7.66	5.95	4.88	4.15	3.57	3.10	2.68	2.35	2.07	1.85	-
-2.00	10.77	7.68	5.95	4.86	4.10	3.45	3.00	2.60	2.28	2.06	-	-
-3.00	10.93	7.84	6.05	4.82	4.02	3.39	2.97	2.61	-	-	-	-
-4.00	11.21	7.98	6.09	4.89	4.08	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 20 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2iL	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	9.36	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.34	8.07	7.06	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	7.96	7.01	6.22	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	8.87	7.76	6.88	6.13	5.50	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	9.85	8.55	7.53	6.70	6.01	5.42	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	8.27	7.32	6.54	5.89	5.34	4.86
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	8.10	7.16	6.41	5.78	5.26	4.81
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	8.00	7.07	6.33	5.72	5.22	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	7.98	7.04	6.31	5.71	5.23	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.27	8.03	7.08	6.35	5.78	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.10	9.39	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	9.55b	8.18	7.08	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	9.52	8.22	7.14	6.25	-	-
4.00	18.29a	17.48b	16.76b	15.34	12.74	10.87b	9.47	8.17	7.12	6.24	5.53	-
3.00	3.57a	17.33b	16.63b	15.20	12.64	10.83	9.32	8.07	7.03	6.18	5.49	-
2.00	-	9.24a	17.86b	15.20	12.54	10.55	9.06	7.91	6.92	6.10	5.43	4.86
1.00	-	9.45a	15.27a	14.66	12.07	10.22	8.80	7.72	6.74	5.97	5.35	4.81
0.00	9.08a	15.33a	17.95	14.26	11.76	9.94	8.60	7.50	6.62	5.87	5.26	-
-1.00	18.29a	24.74	17.66	14.04	11.57	9.78	8.44	7.35	6.49	5.78	5.23	-
-2.00	29.94a	23.87b	17.90	14.02	11.51	9.64	8.31	7.25	6.41	5.78	-	-
-3.00	22.37b	21.53b	18.04	13.96	11.40	9.57	8.28	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 21 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2JU	



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
8.00	-	10.73a	11.57a	10.23	8.21	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	8.35	6.94	5.87	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	6.85	5.85	5.04	4.39	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	6.62	5.69	4.95	4.34	3.83	-	-
4.00	4.08a	3.42a	4.40a	7.69a	7.37	6.30	5.45	4.77	4.22	3.75	3.35	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	5.92	5.17	4.57	4.07	3.65	3.28	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.93	4.39	3.93	3.54	3.21	2.92
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	4.78	4.25	3.81	3.45	3.14	2.87
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	4.69	4.17	3.74	3.40	3.10	-
-1.00	1.95a	1.74a	2.18a	2.25a	6.31	5.37	4.68	4.15	3.73	3.38	3.11	-
-2.00	4.44a	3.37a	6.02a	7.76	6.38	5.42	4.72	4.18	3.76	3.44	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	6.51	5.54	4.82	4.29	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	10.27	8.22	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.56	8.54	7.04	5.90	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	8.64	7.17	6.04	5.13	4.40	-	-	-
5.00	5.07a	8.09a	9.75a	10.37	8.58	7.20	6.07	5.17	4.46	3.86	-	-
4.00	18.29a	16.68	12.74b	10.25	8.48	7.09	6.02	5.13	4.44	3.85	3.38	-
3.00	3.57a	16.50	12.44	9.87	8.12	6.84	5.84	5.04	4.36	3.80	3.34	-
2.00	-	9.24a	11.54	9.25	7.71	6.52	5.62	4.90	4.26	3.73	3.29	2.92
1.00	-	9.45a	10.61	8.76	7.31	6.23	5.39	4.74	4.11	3.62	3.22	2.87
0.00	9.08a	13.86	10.47	8.42	7.04	6.00	5.21	4.54	4.00	3.52	3.14	-
-1.00	18.29a	13.78	10.30	8.24	6.88	5.86	5.07	4.41	3.89	3.45	3.11	-
-2.00	20.79	13.80	10.30	8.22	6.83	5.74	4.96	4.32	3.82	3.44	-	-
-3.00	20.98	13.99	10.42	8.17	6.74	5.68	4.94	4.33	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 22 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2jL	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 23 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2kU	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 24 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2kL	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 25 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2IU	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 26 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 0-50mm CANT	Bucket Pin - 2IL	



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 27 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3aU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 28 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3aL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 29 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3bU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	10.07	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	8.42	7.09	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	8.33	7.07	6.07	5.28	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.08	6.90	5.97	5.23	4.61	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.16	7.74	6.64	5.79	5.11	4.53	4.05	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	7.33	6.35	5.58	4.95	4.43	3.98	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	6.10	5.39	4.80	4.31	3.90	3.54
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	5.93	5.24	4.68	4.21	3.82	3.49
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	5.84	5.16	4.61	4.16	3.79	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	6.75	5.83	5.13	4.59	4.14	3.80	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.10	6.80	5.87	5.17	4.62	4.21	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	6.93	5.98	5.28	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	12.76	10.08	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	10.41	8.53	7.12	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.38b	8.67	7.26	6.17	5.29	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.28b	8.70	7.30	6.21	5.35	4.64	-	-
4.00	18.29a	17.48b	15.63	12.34b	10.19b	8.58	7.25	6.16	5.33	4.64	4.07	-
3.00	3.57a	17.33b	15.48	12.26b	9.97	8.32	7.06	6.07	5.25	4.58	4.03	-
2.00	-	9.24a	14.90	11.64	9.53	7.98	6.82	5.93	5.15	4.51	3.98	3.54
1.00	-	9.45a	13.87	11.10	9.10	7.67	6.58	5.75	4.98	4.39	3.91	3.49
0.00	9.08a	15.33a	13.56	10.73	8.81	7.42	6.40	5.55	4.87	4.29	3.83	-
-1.00	18.29a	18.92	13.52	10.53	8.63	7.28	6.25	5.41	4.75	4.22	3.80	-
-2.00	29.94a	18.95	13.52	10.51	8.59	7.14	6.13	5.32	4.68	4.21	-	-
-3.00	22.37b	19.17	13.65	10.46	8.48	7.08	6.10	5.33	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 30 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3bL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 31 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3cU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	9.42	7.36	5.91	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	7.43	6.04	5.01	4.22	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	5.90	4.93	4.20	3.60	3.10	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.57	4.70	4.04	3.50	3.06	2.67	-	-
4.00	4.08a	3.42a	4.40a	6.30	5.11	4.40	3.81	3.33	2.94	2.60	2.30	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	4.03	3.54	3.14	2.80	2.50	2.24	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.31	2.96	2.66	2.40	2.16	1.96
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	3.16	2.83	2.55	2.30	2.09	1.91
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.51	3.08	2.75	2.48	2.25	2.06	-
-1.00	1.95a	1.74a	2.18a	2.25a	4.10	3.51	3.07	2.73	2.46	2.24	2.07	-
-2.00	4.44a	3.37a	6.02a	5.04	4.17	3.56	3.11	2.76	2.50	2.30	-	-
-3.00	10.60b	8.21b	6.49	5.18	4.29	3.67	3.21	2.87	-	-	-	-
-4.00	10.97b	8.51b	6.77	5.42	4.53	-	-	-	-	-	-	-

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
8.00	-	11.45a	9.52	7.40	5.91	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	7.67	6.22	5.11	4.24	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	7.62	6.32	5.23	4.37	3.68	3.12	-	-	-
5.00	5.07a	8.09a	9.30	7.50	6.26	5.26	4.40	3.72	3.17	2.71	-	-
4.00	16.80	11.83	9.10	7.38	6.16	5.15	4.36	3.68	3.15	2.70	2.33	-
3.00	3.57a	11.38	8.73	7.02	5.82	4.92	4.19	3.60	3.08	2.65	2.29	-
2.00	-	9.24a	7.90	6.45	5.43	4.61	3.97	3.46	2.98	2.58	2.25	1.96
1.00	-	9.17	7.25	5.98	5.05	4.33	3.75	3.30	2.83	2.47	2.18	1.91
0.00	9.08a	8.89	6.92	5.67	4.80	4.11	3.59	3.11	2.73	2.38	2.10	-
-1.00	12.59	8.81	6.76	5.49	4.64	3.98	3.45	2.99	2.62	2.31	2.07	-
-2.00	12.67	8.83	6.76	5.48	4.60	3.86	3.35	2.90	2.55	2.30	-	-
-3.00	12.85	9.00	6.86	5.43	4.51	3.80	3.32	2.91	-	-	-	-
-4.00	13.15	9.15	6.90	5.51	4.58	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3cL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	9.12	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.04	7.79	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	8.84	7.67	6.73	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	8.59	7.50	6.62	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	9.66	8.35	7.32	6.48	5.72
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	9.41	8.15	7.17	6.36	5.64
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	10.95	9.28	8.04	7.08	6.30	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	9.24	8.00	7.06	6.31	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	9.14	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.68	9.24	7.85	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	10.58b	9.20	7.83	6.76	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.17	10.52	9.08	7.75	6.71	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31	12.13	10.56	8.91	7.63	6.63	5.72
1.00	-	9.45a	15.27a	17.87b	16.14b	14.34b	12.22	10.27	8.65	7.44	6.50	5.64
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.52b	11.90	9.93	8.47	7.29	6.36	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.31	11.64	9.70	8.27	7.17	6.31	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	11.44	9.55	8.16	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 33 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3dU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	9.18	6.95	5.46	4.37	-	-	-	-	-	-	-
7.00	-	7.19a	6.98	5.53	4.50	3.72	3.10	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	5.33	4.37	3.64	3.09	2.62	2.24	-	-	-
5.00	4.01a	3.81a	3.18a	4.89	4.05	3.43	2.94	2.53	2.19	1.90	-	-
4.00	4.08a	3.42a	4.40a	4.46	3.61	3.13	2.72	2.37	2.08	1.83	1.60	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.78	2.46	2.18	1.94	1.73	1.53	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.24	2.01	1.81	1.63	1.46	1.28
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.10	1.88	1.70	1.54	1.40	1.22
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.28	2.02	1.81	1.64	1.49	1.36	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.66	2.28	2.01	1.79	1.62	1.48	1.37	-
-2.00	4.44a	3.37a	4.11	3.28	2.72	2.33	2.04	1.82	1.65	1.54	-	-
-3.00	7.85	5.56	4.25	3.41	2.84	2.44	2.14	1.92	-	-	-	-
-4.00	8.21	5.86	4.51	3.64	3.06	-	-	-	-	-	-	-

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
8.00	-	9.25	7.05	5.50	4.38	-	-	-	-	-	-	-
7.00	-	7.60a	7.15	5.75	4.67	3.81	3.13	-	-	-	-	-
6.00	3.96a	6.27a	7.04	5.71	4.76	3.93	3.26	2.71	2.25	-	-	-
5.00	5.07a	8.09a	6.84	5.59	4.70	3.95	3.29	2.74	2.30	1.93	-	-
4.00	11.52	8.46	6.66	5.48	4.61	3.85	3.24	2.70	2.28	1.92	1.62	-
3.00	3.57a	8.06	6.32	5.15	4.29	3.63	3.08	2.62	2.22	1.87	1.59	-
2.00	-	6.70	5.55	4.60	3.92	3.34	2.87	2.49	2.12	1.80	1.54	1.28
1.00	-	6.05	4.95	4.17	3.56	3.07	2.66	2.34	1.97	1.70	1.47	1.22
0.00	7.87	5.80	4.64	3.87	3.32	2.86	2.50	2.16	1.88	1.61	1.40	-
-1.00	7.85	5.73	4.49	3.71	3.17	2.73	2.37	2.04	1.77	1.54	1.37	-
-2.00	7.92	5.75	4.49	3.70	3.13	2.62	2.27	1.96	1.70	1.54	-	-
-3.00	8.08	5.90	4.59	3.65	3.04	2.56	2.24	1.96	-	-	-	-
-4.00	8.34	6.04	4.63	3.72	3.11	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 34 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3dL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	10.52	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	8.61	7.07	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	8.48	7.05	5.85	4.87	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.13	6.80	5.70	4.80	4.06	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.21	7.64	6.43	5.41	4.61	3.94	3.37	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	7.06	5.98	5.09	4.37	3.78	3.27	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	5.58	4.80	4.14	3.61	3.15	2.75
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	5.33	4.57	3.96	3.46	3.04	2.68
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	5.19	4.44	3.85	3.38	2.98	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	6.20	5.17	4.41	3.82	3.35	3.00	-
-2.00	4.44a	3.37a	6.02a	9.77	7.67	6.29	5.23	4.46	3.88	3.45	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	6.48	5.41	4.64	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	10.53	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	10.96	8.76	7.12	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	8.96	7.32	6.00	4.90	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.72	8.94	7.36	6.05	4.98	4.11	-	-
4.00	18.29a	17.48b	16.76b	13.03	10.56	8.83	7.30	5.98	4.95	4.10	3.41	-
3.00	3.57a	17.33b	16.63b	12.88	10.38	8.47	7.03	5.85	4.83	4.01	3.36	-
2.00	-	9.24a	16.25	12.19	9.73	7.98	6.69	5.62	4.68	3.90	3.28	2.75
1.00	-	9.45a	14.64	11.39	9.11	7.54	6.33	5.36	4.43	3.72	3.17	2.68
0.00	9.08a	15.33a	14.18	10.85	8.70	7.18	6.05	5.05	4.26	3.58	3.04	-
-1.00	18.29a	21.34	14.11	10.55	8.44	6.98	5.82	4.83	4.08	3.46	3.00	-
-2.00	29.94a	21.00	14.11	10.52	8.37	6.79	5.64	4.69	3.97	3.45	-	-
-3.00	22.37b	21.53b	14.31	10.44	8.22	6.69	5.59	4.71	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3eU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	7.70	5.85	4.59	3.66	-	-	-	-	-	-	-
7.00	-	7.19a	5.88	4.66	3.78	3.11	2.58	-	-	-	-	-
6.00	3.13a	4.60a	5.60	4.46	3.65	3.03	2.56	2.16	1.82	-	-	-
5.00	4.01a	3.81a	3.18a	4.04	3.35	2.83	2.42	2.07	1.78	1.52	-	-
4.00	4.08a	3.42a	4.68	3.62	2.92	2.54	2.20	1.91	1.67	1.45	1.19	-
3.00	1.21a	1.26a	1.66a	1.76a	2.61	2.20	1.95	1.73	1.53	1.35	1.10	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.92	1.73	1.56	1.40	1.20	1.00	0.81
1.00	-	1.83a	2.16a	2.02a	2.11	1.77	1.59	1.43	1.27	1.08	0.91	0.75
0.00	2.14a	2.16a	2.08a	2.17a	1.99	1.71	1.51	1.36	1.18	1.01	0.86	-
-1.00	1.95a	1.74a	2.18a	2.25a	1.99	1.71	1.50	1.34	1.15	0.99	0.87	-
-2.00	4.44a	3.37a	3.11	2.48	2.05	1.75	1.54	1.37	1.20	1.07	-	-
-3.00	5.93	4.24	3.25	2.61	2.17	1.86	1.63	1.47	-	-	-	-
-4.00	6.27	4.53	3.49	2.83	2.38	-	-	-	-	-	-	-

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
8.00	-	7.77	5.94	4.63	3.67	-	-	-	-	-	-	-
7.00	-	7.60a	6.05	4.88	3.95	3.20	2.60	-	-	-	-	-
6.00	3.96a	6.27a	5.94	4.83	4.04	3.32	2.73	2.24	1.84	-	-	-
5.00	5.07a	7.28	5.75	4.72	3.98	3.34	2.76	2.28	1.89	1.55	-	-
4.00	9.38	7.01	5.58	4.61	3.89	3.24	2.71	2.24	1.87	1.55	1.23	-
3.00	3.57a	6.62	5.24	4.29	3.58	3.03	2.55	2.16	1.80	1.50	1.18	-
2.00	-	5.33	4.50	3.76	3.22	2.74	2.35	2.03	1.71	1.43	1.11	0.81
1.00	-	4.71	3.93	3.34	2.87	2.48	2.15	1.88	1.56	1.30	1.02	0.75
0.00	5.95	4.47	3.62	3.05	2.63	2.27	1.99	1.70	1.47	1.18	0.91	-
-1.00	5.94	4.40	3.48	2.89	2.49	2.15	1.86	1.58	1.36	1.08	0.87	-
-2.00	6.00	4.42	3.48	2.88	2.45	2.04	1.76	1.50	1.28	1.07	-	-
-3.00	6.14	4.56	3.58	2.84	2.37	1.98	1.73	1.51	-	-	-	-
-4.00	6.39	4.70	3.61	2.91	2.43	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3eL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	10.43	8.15	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	8.34	6.78	5.50	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	6.66	5.47	4.51	3.74	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.65	6.31	5.22	4.37	3.67	3.08	-	-
4.00	4.08a	3.42a	4.40a	8.84	6.97	5.82	4.86	4.10	3.49	2.97	2.52	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	5.24	4.45	3.80	3.27	2.82	2.42	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.09	3.53	3.06	2.66	2.30	1.99
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	3.85	3.32	2.89	2.51	2.20	1.93
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	3.72	3.21	2.78	2.44	2.15	-
-1.00	1.95a	1.74a	2.18a	2.25a	5.40	4.41	3.71	3.17	2.75	2.42	2.16	-
-2.00	4.44a	3.37a	6.02a	6.96	5.51	4.49	3.76	3.22	2.81	2.51	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	5.71	4.66	3.92	3.39	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	10.50	8.15	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.87	8.60	6.92	5.54	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	8.74	7.10	5.75	4.65	3.76	-	-	-
5.00	5.07a	8.09a	9.75a	10.59	8.65	7.14	5.79	4.70	3.84	3.13	-	-
4.00	18.29a	17.48b	13.12	10.41	8.51	6.98	5.72	4.63	3.81	3.12	2.55	-
3.00	3.57a	17.33b	12.81	9.93	8.02	6.65	5.45	4.51	3.70	3.04	2.50	-
2.00	-	9.24a	11.52	9.06	7.44	6.16	5.11	4.30	3.55	2.93	2.43	1.99
1.00	-	9.45a	10.52	8.36	6.89	5.72	4.78	4.05	3.32	2.76	2.32	1.93
0.00	9.08a	13.66	10.00	7.89	6.52	5.36	4.51	3.76	3.16	2.63	2.20	-
-1.00	18.29a	13.53	9.75	7.63	6.27	5.16	4.30	3.57	2.99	2.52	2.16	-
-2.00	22.05	13.57	9.75	7.61	6.20	4.97	4.14	3.44	2.89	2.51	-	-
-3.00	22.30	13.84	9.91	7.54	6.05	4.87	4.09	3.45	-	-	-	-
-4.00	13.59b	12.62b	9.97	7.66	6.16	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 37 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3FU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	6.63	5.06	3.97	3.15	-	-	-	-	-	-	-
7.00	-	6.65	5.09	4.03	3.27	2.67	2.20	-	-	-	-	-
6.00	3.13a	4.60a	4.81	3.84	3.14	2.60	2.19	1.83	1.53	-	-	-
5.00	4.01a	3.81a	3.18a	3.43	2.84	2.40	2.04	1.74	1.48	1.19	-	-
4.00	4.08a	3.42a	3.93	3.03	2.43	2.11	1.83	1.58	1.37	1.09	0.83	-
3.00	1.21a	1.26a	1.66a	1.76a	2.13	1.78	1.58	1.40	1.17	0.95	0.74	-
2.00	-	2.25a	2.58a	2.33	1.26a	1.51	1.37	1.19	0.99	0.81	0.64	0.48
1.00	-	1.83a	2.16a	2.02a	1.64	1.37	1.20	1.01	0.84	0.68	0.55	0.42
0.00	2.14a	2.16a	2.08a	1.88	1.52	1.30	1.09	0.91	0.75	0.62	0.50	-
-1.00	1.95a	1.74a	2.18a	1.85	1.52	1.30	1.07	0.88	0.73	0.60	0.51	-
-2.00	4.44a	3.18	2.42	1.92	1.58	1.35	1.12	0.92	0.77	0.68	-	-
-3.00	4.61	3.32	2.54	2.04	1.69	1.45	1.26	1.06	-	-	-	-
-4.00	4.93	3.60	2.78	2.26	1.90	-	-	-	-	-	-	-

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
8.00	-	6.70	5.15	4.01	3.15	-	-	-	-	-	-	-
7.00	-	6.71	5.25	4.25	3.43	2.76	2.23	-	-	-	-	-
6.00	3.96a	6.27a	5.14	4.20	3.52	2.88	2.35	1.91	1.54	-	-	-
5.00	5.07a	6.23	4.96	4.09	3.46	2.90	2.38	1.94	1.59	1.23	-	-
4.00	7.87	5.97	4.79	3.99	3.38	2.80	2.33	1.90	1.57	1.22	0.86	-
3.00	3.57a	5.60	4.47	3.67	3.07	2.59	2.18	1.83	1.50	1.15	0.82	-
2.00	-	4.36	3.76	3.16	2.72	2.31	1.98	1.70	1.41	1.05	0.75	0.48
1.00	-	3.77	3.20	2.75	2.37	2.06	1.78	1.55	1.22	0.91	0.66	0.42
0.00	4.63	3.54	2.91	2.47	2.15	1.85	1.62	1.38	1.08	0.79	0.55	-
-1.00	4.62	3.47	2.77	2.32	2.01	1.73	1.49	1.22	0.93	0.69	0.51	-
-2.00	4.68	3.49	2.77	2.31	1.97	1.62	1.40	1.11	0.85	0.68	-	-
-3.00	4.82	3.63	2.86	2.27	1.89	1.57	1.37	1.12	-	-	-	-
-4.00	5.05	3.76	2.90	2.33	1.95	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3fl	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	9.99	7.68	5.98	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	7.77	6.18	4.91	3.94	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	5.97	4.79	3.91	3.18	2.58	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.49	4.46	3.68	3.05	2.52	2.06	-	-
4.00	4.08a	3.42a	4.40a	6.21	4.80	4.01	3.35	2.80	2.35	1.96	1.61	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.48	2.96	2.52	2.14	1.81	1.51	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.62	2.26	1.94	1.66	1.40	1.18
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.40	2.06	1.78	1.52	1.31	1.11
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.71	2.28	1.95	1.68	1.45	1.26	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.33	2.71	2.27	1.92	1.65	1.43	1.27	-
-2.00	4.44a	3.37a	5.79	4.36	3.43	2.78	2.32	1.97	1.70	1.52	-	-
-3.00	10.60b	8.2	6.01	4.56	3.61	2.95	2.47	2.12	-	-	-	-
-4.00	10.97b	8.51b	6.43	4.93	3.95	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.13	7.73	5.99	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.10	6.44	5.05	3.98	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.03	6.58	5.23	4.17	3.31	2.60	-	-	-
5.00	5.07a	8.09a	9.75a	7.86	6.49	5.27	4.21	3.36	2.68	2.11	-	-
4.00	18.18	12.57	9.57	7.70	6.35	5.11	4.15	3.30	2.65	2.10	1.64	-
3.00	3.57a	11.96	9.07	7.23	5.85	4.78	3.89	3.18	2.55	2.02	1.59	-
2.00	-	9.24a	7.95	6.44	5.28	4.32	3.58	2.98	2.41	1.92	1.52	1.18
1.00	-	8.95	7.08	5.75	4.72	3.92	3.26	2.75	2.19	1.76	1.42	1.11
0.00	9.08a	8.57	6.63	5.29	4.35	3.59	3.02	2.48	2.04	1.63	1.31	-
-1.00	12.33	8.46	6.41	5.03	4.12	3.40	2.82	2.29	1.88	1.53	1.27	-
-2.00	12.44	8.49	6.40	5.01	4.06	3.23	2.67	2.17	1.78	1.52	-	-
-3.00	12.69	8.72	6.55	4.94	3.92	3.14	2.62	2.19	-	-	-	-
-4.00	13.11	8.93	6.61	5.05	4.02	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3gU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	6.03	4.60	3.60	2.84	-	-	-	-	-	-	-
7.00	-	6.05	4.63	3.66	2.96	2.41	1.97	-	-	-	-	-
6.00	3.13a	4.60a	4.36	3.48	2.84	2.33	1.95	1.62	1.31	-	-	-
5.00	4.01a	3.81a	3.18a	3.07	2.54	2.13	1.81	1.54	1.25	0.94	-	-
4.00	4.08a	3.42a	3.49	2.67	2.13	1.85	1.60	1.38	1.10	0.84	0.60	-
3.00	1.21a	1.26a	1.66a	1.76a	1.83	1.53	1.36	1.12	0.90	0.70	0.51	-
2.00	-	2.25a	2.56	1.99	1.26a	1.24	1.06	0.89	0.72	0.56	0.41	0.27
1.00	-	1.83a	2.16a	1.69	1.35	1.03	0.86	0.71	0.57	0.44	0.32	0.21
0.00	2.14a	2.16a	1.99	1.54	1.22	0.94	0.76	0.61	0.48	0.37	0.28	-
-1.00	1.95a	1.74a	1.95	1.51	1.23	0.94	0.74	0.58	0.46	0.35	0.29	-
-2.00	3.73	2.65	2.00	1.58	1.29	1.01	0.79	0.63	0.50	0.43	-	-
-3.00	3.88	2.79	2.13	1.70	1.40	1.15	0.92	0.77	-	-	-	-
-4.00	4.19	3.06	2.36	1.91	1.61	-	-	-	-	-	-	-

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
8.00	-	6.10	4.69	3.64	2.85	-	-	-	-	-	-	-
7.00	-	6.10	4.79	3.87	3.12	2.50	2.00	-	-	-	-	-
6.00	3.96a	5.92	4.68	3.83	3.20	2.61	2.12	1.70	1.33	-	-	-
5.00	5.07a	5.64	4.51	3.72	3.15	2.63	2.14	1.73	1.40	0.98	-	-
4.00	7.04	5.39	4.34	3.62	3.06	2.54	2.10	1.70	1.37	0.97	0.63	-
3.00	3.57a	5.02	4.02	3.31	2.76	2.33	1.94	1.62	1.28	0.90	0.59	-
2.00	-	3.81	3.32	2.80	2.41	2.05	1.75	1.50	1.15	0.80	0.52	0.27
1.00	-	3.23	2.77	2.40	2.08	1.80	1.55	1.33	0.95	0.66	0.43	0.21
0.00	3.90	3.00	2.49	2.12	1.85	1.59	1.39	1.09	0.81	0.54	0.32	-
-1.00	3.88	2.94	2.35	1.97	1.71	1.48	1.24	0.92	0.66	0.44	0.29	-
-2.00	3.94	2.96	2.35	1.96	1.67	1.37	1.10	0.81	0.58	0.43	-	-
-3.00	4.08	3.09	2.44	1.92	1.59	1.32	1.06	0.82	-	-	-	-
-4.00	4.30	3.22	2.47	1.99	1.65	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 40 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3gI	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	8.86	6.84	5.27	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	6.94	5.46	4.32	3.44	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.66	5.26	4.20	3.42	2.76	2.22	-	-	-
5.00	4.01a	3.81a	3.18a	6.01	4.79	3.89	3.20	2.63	2.15	1.74	-	-
4.00	4.08a	3.42a	4.40a	5.35	4.13	3.45	2.87	2.39	1.99	1.63	1.32	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.93	2.49	2.11	1.78	1.49	1.22	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.16	1.86	1.58	1.34	1.12	0.92
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	1.95	1.67	1.43	1.21	1.02	0.85
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.19	1.83	1.56	1.33	1.14	0.97	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.70	2.19	1.82	1.53	1.30	1.12	0.99	-
-2.00	4.44a	3.37a	4.75	3.58	2.80	2.26	1.87	1.58	1.35	1.21	-	-
-3.00	10.02	6.84	4.96	3.77	2.97	2.42	2.02	1.73	-	-	-	-
-4.00	10.54	7.27	5.36	4.12	3.30	-	-	-	-	-	-	-

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
8.00	-	11.45a	8.99	6.90	5.27	-	-	-	-	-	-	-
7.00	-	7.60a	9.13	7.25	5.71	4.46	3.48	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	7.18	5.84	4.64	3.67	2.88	2.24	-	-	-
5.00	5.07a	8.09a	8.71	7.02	5.76	4.67	3.71	2.93	2.31	1.78	-	-
4.00	15.36	10.94	8.46	6.87	5.62	4.52	3.65	2.87	2.28	1.77	1.35	-
3.00	3.57a	10.36	7.98	6.39	5.14	4.19	3.40	2.76	2.18	1.70	1.30	-
2.00	-	8.45	6.91	5.57	4.58	3.75	3.10	2.57	2.05	1.60	1.24	0.92
1.00	-	7.54	6.04	4.91	4.05	3.36	2.79	2.34	1.83	1.44	1.14	0.85
0.00	9.08a	7.18	5.56	4.46	3.69	3.04	2.55	2.07	1.68	1.32	1.02	-
-1.00	10.03	7.08	5.34	4.22	3.47	2.86	2.36	1.89	1.52	1.21	0.99	-
-2.00	10.13	7.11	5.34	4.20	3.41	2.69	2.21	1.77	1.43	1.21	-	-
-3.00	10.35	7.32	5.49	4.13	3.28	2.60	2.17	1.79	-	-	-	-
-4.00	10.73	7.52	5.54	4.24	3.37	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 41 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3hU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	7.08	5.38	4.21	3.34	-	-	-	-	-	-	-
7.00	-	7.10	5.41	4.28	3.46	2.83	2.34	-	-	-	-	-
6.00	3.13a	4.60a	5.13	4.08	3.33	2.76	2.32	1.94	1.63	-	-	-
5.00	4.01a	3.81a	3.18a	3.66	3.03	2.55	2.17	1.86	1.58	1.32	-	-
4.00	4.08a	3.42a	4.22	3.25	2.60	2.26	1.96	1.69	1.48	1.22	0.95	-
3.00	1.21a	1.26a	1.66a	1.76a	2.30	1.93	1.71	1.51	1.32	1.08	0.86	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.66	1.49	1.35	1.13	0.94	0.76	0.59
1.00	-	1.83a	2.16a	2.02a	1.80	1.51	1.35	1.17	0.98	0.81	0.66	0.53
0.00	2.14a	2.16a	2.08a	2.08	1.68	1.44	1.27	1.07	0.89	0.75	0.62	-
-1.00	1.95a	1.74a	2.18a	2.05	1.68	1.44	1.25	1.04	0.87	0.73	0.63	-
-2.00	4.44a	3.37a	2.67	2.12	1.75	1.49	1.30	1.08	0.91	0.81	-	-
-3.00	5.14	3.67	2.80	2.24	1.86	1.59	1.40	1.22	-	-	-	-
-4.00	5.47	3.96	3.05	2.46	2.07	-	-	-	-	-	-	-

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
8.00	-	7.15	5.47	4.25	3.34	-	-	-	-	-	-	-
7.00	-	7.16	5.57	4.49	3.62	2.92	2.36	-	-	-	-	-
6.00	3.96a	6.27a	5.46	4.45	3.71	3.04	2.48	2.03	1.64	-	-	-
5.00	5.07a	6.67	5.28	4.34	3.66	3.06	2.51	2.06	1.69	1.36	-	-
4.00	8.52	6.40	5.11	4.23	3.57	2.96	2.47	2.02	1.67	1.35	0.98	-
3.00	3.57a	6.02	4.78	3.91	3.26	2.75	2.31	1.94	1.61	1.28	0.94	-
2.00	-	4.74	4.04	3.39	2.90	2.46	2.11	1.82	1.51	1.19	0.87	0.59
1.00	-	4.13	3.47	2.97	2.55	2.21	1.90	1.66	1.37	1.04	0.78	0.53
0.00	5.16	3.89	3.17	2.68	2.32	2.00	1.75	1.49	1.23	0.92	0.67	-
-1.00	5.14	3.83	3.03	2.53	2.18	1.88	1.62	1.37	1.08	0.82	0.63	-
-2.00	5.21	3.85	3.03	2.51	2.14	1.77	1.52	1.27	0.99	0.81	-	-
-3.00	5.35	3.99	3.13	2.47	2.05	1.71	1.50	1.28	-	-	-	-
-4.00	5.59	4.12	3.16	2.54	2.12	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 42 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3hL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	10.32	7.94	6.23	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.04	6.43	5.12	4.12	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	6.22	5.00	4.10	3.35	2.74	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.74	4.68	3.87	3.22	2.67	2.20	-	-
4.00	4.08a	3.42a	4.40a	6.51	5.05	4.22	3.53	2.97	2.51	2.09	1.74	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.70	3.15	2.68	2.29	1.95	1.64	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.81	2.43	2.09	1.80	1.53	1.30
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.59	2.23	1.93	1.66	1.43	1.23
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.93	2.47	2.12	1.83	1.59	1.39	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.58	2.93	2.46	2.09	1.81	1.57	1.40	-
-2.00	4.44a	3.37a	6.02a	4.66	3.68	3.00	2.51	2.14	1.86	1.66	-	-
-3.00	10.60b	8.21b	6.38	4.86	3.86	3.16	2.66	2.29	-	-	-	-
-4.00	10.97b	8.51b	6.76	5.23	4.20	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.46	8.00	6.24	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.36	6.69	5.27	4.17	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.30	6.82	5.45	4.36	3.48	2.76	-	-	-
5.00	5.07a	8.09a	9.75a	8.13	6.74	5.49	4.40	3.53	2.83	2.25	-	-
4.00	18.62b	13.00	9.90	7.97	6.60	5.33	4.34	3.47	2.81	2.24	1.77	-
3.00	3.57a	12.39	9.40	7.49	6.10	4.99	4.08	3.35	2.70	2.16	1.72	-
2.00	-	9.24a	8.28	6.72	5.52	4.54	3.77	3.15	2.56	2.06	1.65	1.30
1.00	-	9.38	7.41	6.05	4.97	4.14	3.45	2.92	2.34	1.90	1.55	1.23
0.00	9.08a	9.00	6.96	5.58	4.60	3.81	3.21	2.65	2.19	1.77	1.44	-
-1.00	12.95	8.89	6.74	5.33	4.37	3.62	3.01	2.46	2.03	1.67	1.40	-
-2.00	13.06	8.92	6.74	5.31	4.31	3.44	2.86	2.34	1.93	1.66	-	-
-3.00	13.31	9.15	6.88	5.24	4.17	3.36	2.81	2.36	-	-	-	-
-4.00	13.59b	9.36	6.94	5.35	4.27	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 43 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3IU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.30	7.73	6.05	4.84	-	-	-	-	-	-	-
7.00	-	7.19a	7.76	6.12	4.97	4.11	3.43	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	5.91	4.83	4.02	3.42	2.91	2.49	-	-	-
5.00	4.01a	3.81a	3.18a	5.46	4.51	3.81	3.26	2.82	2.44	2.12	-	-
4.00	4.08a	3.42a	4.40a	5.02	4.06	3.50	3.04	2.65	2.33	2.05	1.80	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.15	2.78	2.46	2.19	1.95	1.74	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.55	2.29	2.05	1.85	1.66	1.50
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.40	2.15	1.94	1.75	1.59	1.45
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.64	2.32	2.08	1.88	1.71	1.56	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.08	2.64	2.31	2.06	1.86	1.69	1.57	-
-2.00	4.44a	3.37a	4.78	3.80	3.15	2.69	2.35	2.09	1.89	1.75	-	-
-3.00	9.33	6.49	4.92	3.94	3.27	2.79	2.45	2.20	-	-	-	-
-4.00	9.71	6.82	5.19	4.17	3.49	-	-	-	-	-	-	-

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
8.00	-	10.37	7.83	6.09	4.84	-	-	-	-	-	-	-
7.00	-	7.60a	7.94	6.35	5.14	4.20	3.46	-	-	-	-	-
6.00	3.96a	6.27a	7.82	6.30	5.24	4.32	3.59	2.99	2.50	-	-	-
5.00	5.07a	8.09a	7.62	6.18	5.18	4.35	3.62	3.03	2.56	2.15	-	-
4.00	13.25	9.54	7.43	6.07	5.08	4.24	3.58	2.99	2.54	2.14	1.82	-
3.00	3.57a	9.12	7.07	5.72	4.75	4.02	3.41	2.91	2.47	2.09	1.79	-
2.00	-	7.69	6.27	5.16	4.37	3.71	3.19	2.78	2.37	2.03	1.74	1.50
1.00	-	7.01	5.65	4.71	4.00	3.44	2.98	2.62	2.22	1.92	1.67	1.45
0.00	9.08a	6.75	5.33	4.41	3.76	3.22	2.82	2.43	2.12	1.83	1.60	-
-1.00	9.33	6.67	5.18	4.24	3.61	3.10	2.68	2.31	2.01	1.76	1.57	-
-2.00	9.41	6.69	5.18	4.23	3.56	2.98	2.58	2.23	1.95	1.75	-	-
-3.00	9.57	6.85	5.28	4.18	3.48	2.92	2.55	2.24	-	-	-	-
-4.00	9.85	7.00	5.32	4.26	3.54	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 44 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3iL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	11.4	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	9.55	8.02	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	7.99	6.85	5.86	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	7.77	6.72	5.79	5.00	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	8.66	7.44	6.47	5.61	4.89	4.27	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	8.14	7.06	6.17	5.39	4.74	4.17	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	6.74	5.89	5.18	4.58	4.06	3.61
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	6.53	5.68	5.00	4.43	3.95	3.54
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	6.40	5.57	4.90	4.36	3.90	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.38	6.38	5.54	4.87	4.34	3.92	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	7.46	6.44	5.59	4.93	4.43	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	11.41	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	9.68	8.06	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	9.78b	8.24	6.97	5.88	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	9.72b	8.29	7.02	5.96	5.05	-	-
4.00	18.29a	17.48b	16.76b	13.58	11.27b	9.64	8.22	6.96	5.93	5.04	4.31	-
3.00	3.57a	17.33b	16.63b	13.45b	11.21b	9.41	7.98	6.85	5.82	4.96	4.26	-
2.00	-	9.24a	16.55	13.01	10.70	8.97	7.67	6.66	5.67	4.85	4.18	3.61
1.00	-	9.45a	15.22	12.32	10.14	8.57	7.36	6.42	5.44	4.69	4.08	3.54
0.00	9.08a	15.33a	14.84	11.85	9.77	8.25	7.12	6.13	5.28	4.55	3.96	-
-1.00	18.29a	20.45	14.78	11.59	9.55	8.06	6.93	5.93	5.11	4.44	3.92	-
-2.00	29.94a	20.20	14.78	11.57	9.49	7.89	6.78	5.80	5.01	4.43	-	-
-3.00	22.37b	20.77	14.95	11.50	9.35	7.81	6.74	5.82	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3JU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	9.61	7.70	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	7.84	6.50	5.48	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	7.69	6.41	5.47	4.70	4.08	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.34	6.18	5.30	4.61	4.03	3.55	-	-
4.00	4.08a	3.42a	4.40a	8.47	6.85	5.86	5.06	4.43	3.92	3.47	3.10	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	5.48	4.79	4.23	3.76	3.37	3.03	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.55	4.05	3.62	3.26	2.95	2.68
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	4.39	3.90	3.51	3.17	2.88	2.63
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	4.31	3.83	3.44	3.12	2.85	-
-1.00	1.95a	1.74a	2.18a	2.25a	5.80	4.93	4.30	3.81	3.42	3.10	2.86	-
-2.00	4.44a	3.37a	6.02a	7.14	5.87	4.98	4.33	3.84	3.45	3.17	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	6.00	5.10	4.44	3.95	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	12.51	9.65	7.70	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	9.94	8.03	6.60	5.51	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.89	8.13	6.73	5.65	4.79	4.09	-	-	-
5.00	5.07a	8.09a	9.75a	9.76	8.06	6.76	5.68	4.83	4.15	3.58	-	-
4.00	18.29a	15.83	12.06	9.63	7.96	6.65	5.64	4.78	4.13	3.57	3.12	-
3.00	3.57a	15.59	11.66	9.25	7.61	6.40	5.46	4.70	4.06	3.52	3.09	-
2.00	-	9.24a	10.76	8.63	7.19	6.08	5.23	4.56	3.96	3.45	3.04	2.68
1.00	-	9.45a	10.07	8.14	6.79	5.79	5.01	4.40	3.80	3.34	2.96	2.63
0.00	9.08a	12.83	9.70	7.81	6.53	5.56	4.83	4.20	3.69	3.24	2.88	-
-1.00	18.29a	12.74	9.53	7.62	6.36	5.42	4.69	4.07	3.58	3.17	2.86	-
-2.00	19.23	12.77	9.53	7.61	6.32	5.30	4.58	3.98	3.51	3.17	-	-
-3.00	19.43	12.95	9.64	7.56	6.22	5.24	4.55	3.99	-	-	-	-
-4.00	13.59b	12.62b	9.69	7.64	6.29	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 46 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3jL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.85	8.53	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	8.46	7.45	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.45	8.3	7.34	6.54	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.16	8.08	7.20	6.43	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	10.16	8.89	7.87	7.04	6.31	5.65
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	9.93	8.69	7.71	6.90	6.20	5.58
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	9.80	8.57	7.61	6.83	6.15	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	9.79	8.54	7.58	6.81	6.16	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	9.97	8.55	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	9.92	8.63	7.50	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.02	11.22	9.85	8.60	7.49	6.58	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	12.87	11.14	9.85	8.50	7.41	6.52	-
2.00	-	9.24a	17.86b	16.59b	15.17	12.85	11.17	9.64	8.36	7.31	6.45	5.65
1.00	-	9.45a	15.27a	17.87b	15.28	12.77	10.84	9.40	8.13	7.15	6.33	5.58
0.00	9.08a	15.33a	20.99a	18.69	14.97	12.41	10.58	9.12	7.98	7.01	6.21	-
-1.00	18.29a	25.60a	21.90b	18.39	14.72	12.20	10.37	8.93	7.81	6.91	6.16	-
-2.00	29.94a	23.87b	21.52b	18.36	14.64	12.01	10.21	8.80	7.71	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3kU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.38	8.09	-	-	-
5.00	4.01a	3.81a	3.18a	3.18a	6.18a	7.77a	8.71b	9.10b	9.26	8.04	7.05	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.05	7.9	6.97	6.20	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	8.82	7.73	6.85	6.12	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	9.93	8.60	7.56	6.73	6.04	5.46
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	9.74	8.43	7.43	6.62	5.96	5.41
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	9.64	8.34	7.35	6.56	5.92	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	9.62	8.32	7.32	6.54	5.93	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.36	7.37	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.08	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	9.48	8.11	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	9.51	8.17	7.09	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	12.76	10.87	9.47	8.15	7.08	6.23	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	12.65	10.81	9.38	8.06	7.02	6.19	-
2.00	-	9.24a	17.86b	16.59b	15.16	12.64	10.76	9.21	7.95	6.94	6.13	5.46
1.00	-	9.45a	15.27a	17.87b	15.25	12.49	10.48	9.01	7.77	6.81	6.05	5.41
0.00	9.08a	15.33a	20.99a	18.95b	14.99	12.20	10.27	8.78	7.64	6.71	5.96	-
-1.00	18.29a	25.60a	21.90b	19.01	14.78	12.03	10.10	8.63	7.51	6.62	5.93	-
-2.00	29.94a	23.87b	21.52b	18.59b	14.72	11.87	9.97	8.53	7.43	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 48 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3kL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 49 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3IU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 50 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 50-100mm DOWN CANT	Bucket Pin - 3IL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4aU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 52 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4aL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4bU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.08	9.57	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.72	8	6.72	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	7.90	6.7	5.75	4.99	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	7.66	6.53	5.65	4.94	4.35	-	-
4.00	4.08a	3.42a	4.40a	7.69a	8.66	7.31	6.28	5.46	4.82	4.27	3.81	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	6.91	5.98	5.25	4.66	4.16	3.74	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	5.73	5.06	4.51	4.05	3.66	3.32
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	5.57	4.91	4.39	3.95	3.58	3.27
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	5.48	4.83	4.32	3.90	3.55	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	6.32	5.46	4.81	4.30	3.88	3.56	-
-2.00	4.44a	3.37a	6.02a	9.38	7.59	6.38	5.50	4.84	4.33	3.95	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	6.50	5.62	4.96	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	12.14	9.57	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	9.92	8.10	6.75	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	9.94	8.24	6.89	5.84	5.00	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	9.85	8.27	6.93	5.88	5.06	4.38	-	-
4.00	18.29a	17.48b	14.96b	11.82	9.76	8.15	6.88	5.84	5.04	4.37	3.83	-
3.00	3.57a	17.33b	14.84b	11.69	9.47	7.90	6.69	5.75	4.96	4.32	3.79	-
2.00	-	9.24a	14.11	11.02	9.02	7.55	6.45	5.60	4.86	4.24	3.74	3.32
1.00	-	9.45a	13.07	10.48	8.59	7.24	6.21	5.43	4.69	4.13	3.67	3.27
0.00	9.08a	15.33a	12.77	10.11	8.30	6.99	6.03	5.22	4.58	4.03	3.59	-
-1.00	18.29a	17.80	12.72	9.91	8.13	6.85	5.88	5.09	4.46	3.95	3.56	-
-2.00	29.54	17.83	12.72	9.89	8.08	6.72	5.76	4.99	4.39	3.95	-	-
-3.00	22.37b	18.05	12.85	9.84	7.98	6.65	5.73	5.01	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 5° - +/- 15°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4bL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 55 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4cU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	8.91	6.94	5.56	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	7.02	5.69	4.71	3.95	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.80	5.55	4.62	3.93	3.36	2.89	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.22	4.40	3.77	3.27	2.84	2.48	-	-
4.00	4.08a	3.42a	4.40a	5.88	4.76	4.09	3.54	3.09	2.73	2.40	2.12	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.73	3.28	2.90	2.58	2.31	2.06	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.05	2.73	2.44	2.20	1.98	1.79
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.90	2.59	2.33	2.11	1.91	1.75
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.20	2.82	2.52	2.26	2.06	1.88	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.75	3.20	2.81	2.49	2.25	2.04	1.89	-
-2.00	4.44a	3.37a	5.84	4.63	3.82	3.26	2.84	2.53	2.28	2.10	-	-
-3.00	10.60b	7.96	5.98	4.76	3.94	3.37	2.94	2.63	-	-	-	-
-4.00	10.97b	8.30	6.26	5.01	4.18	-	-	-	-	-	-	-

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
8.00	-	11.45a	9.01	6.99	5.56	-	-	-	-	-	-	-
7.00	-	7.60a	9.12	7.26	5.87	4.80	3.98	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	7.21	5.97	4.93	4.11	3.45	2.90	-	-	-
5.00	5.07a	8.09a	8.79	7.08	5.91	4.96	4.14	3.48	2.95	2.51	-	-
4.00	15.87	11.17	8.60	6.96	5.81	4.85	4.09	3.44	2.94	2.50	2.15	-
3.00	3.57a	10.72	8.22	6.61	5.47	4.62	3.92	3.36	2.86	2.45	2.11	-
2.00	-	9.22	7.39	6.03	5.08	4.31	3.70	3.22	2.77	2.38	2.07	1.79
1.00	-	8.51	6.75	5.57	4.70	4.03	3.49	3.06	2.61	2.27	2.00	1.75
0.00	9.08a	8.23	6.41	5.25	4.45	3.81	3.32	2.88	2.51	2.18	1.92	-
-1.00	11.66	8.15	6.25	5.08	4.29	3.68	3.18	2.75	2.40	2.11	1.89	-
-2.00	11.74	8.17	6.25	5.06	4.25	3.56	3.08	2.66	2.34	2.10	-	-
-3.00	11.91	8.34	6.35	5.02	4.16	3.50	3.05	2.67	-	-	-	-
-4.00	12.22	8.50	6.39	5.09	4.23	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 56 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 15° - +/- 25°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4cL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4dU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	8.00	6.02	4.69	3.71	-	-	-	-	-	-	-
7.00	-	7.19a	6.05	4.76	3.84	3.14	2.60	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	4.55	3.71	3.06	2.58	2.17	1.82	-	-	-
5.00	4.01a	3.81a	3.18a	4.12	3.39	2.85	2.43	2.08	1.78	1.52	-	-
4.00	4.08a	3.42a	4.80	3.69	2.95	2.56	2.21	1.91	1.67	1.45	1.25	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.21	1.95	1.73	1.53	1.35	1.18	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.93	1.73	1.56	1.39	1.25	1.11	0.99
1.00	-	1.83a	2.16a	2.02a	2.12	1.78	1.59	1.43	1.29	1.16	1.05	0.95
0.00	2.14a	2.16a	2.08a	2.17a	2.00	1.71	1.51	1.35	1.22	1.11	1.01	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.00	1.71	1.50	1.33	1.20	1.10	1.02	-
-2.00	4.44a	3.37a	3.18	2.51	2.07	1.76	1.53	1.37	1.24	1.16	-	-
-3.00	6.25	4.38	3.31	2.64	2.18	1.86	1.63	1.47	-	-	-	-
-4.00	6.61	4.69	3.57	2.87	2.40	-	-	-	-	-	-	-

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
8.00	-	8.08	6.11	4.73	3.72	-	-	-	-	-	-	-
7.00	-	7.60a	6.22	4.98	4.01	3.24	2.62	-	-	-	-	-
6.00	3.96a	6.27a	6.10	4.94	4.10	3.35	2.75	2.25	1.84	-	-	-
5.00	5.07a	7.57	5.91	4.82	4.04	3.38	2.78	2.28	1.89	1.55	-	-
4.00	9.92	7.28	5.73	4.71	3.95	3.28	2.73	2.24	1.87	1.54	1.27	-
3.00	3.57a	6.88	5.39	4.37	3.63	3.06	2.57	2.17	1.80	1.49	1.24	-
2.00	-	5.52	4.62	3.83	3.26	2.76	2.36	2.04	1.71	1.42	1.19	0.99
1.00	-	4.87	4.02	3.39	2.90	2.50	2.15	1.88	1.56	1.32	1.12	0.95
0.00	6.27	4.62	3.71	3.10	2.66	2.28	1.99	1.70	1.46	1.23	1.05	-
-1.00	6.25	4.55	3.56	2.94	2.51	2.16	1.86	1.58	1.35	1.16	1.02	-
-2.00	6.32	4.57	3.56	2.92	2.47	2.05	1.76	1.50	1.29	1.16	-	-
-3.00	6.48	4.72	3.66	2.88	2.39	1.99	1.73	1.51	-	-	-	-
-4.00	6.74	4.86	3.69	2.95	2.45	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 58 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 25° - +/- 35°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4dL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.49	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.28	8.55	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	8.52	7.26	6.27	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	8.32	7.14	6.21	5.44	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	8.02	6.92	6.06	5.35	4.76	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	8.97	7.67	6.67	5.88	5.23	4.68	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	7.37	6.45	5.71	5.10	4.58	4.15
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	7.18	6.27	5.57	4.98	4.50	4.09
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	7.07	6.18	5.48	4.92	4.46	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	7.06	6.15	5.46	4.90	4.47	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	8.33	7.10	6.20	5.50	4.98	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	12.5	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	10.41	8.58	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.42	8.75	7.37	6.28	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.32	8.79	7.42	6.35	5.48	-	-
4.00	18.29a	17.48b	16.76b	15.01b	12.17	10.23	8.74	7.36	6.33	5.47	4.79	-
3.00	3.57a	17.33b	16.63b	14.85	12.07	10.15	8.51	7.26	6.24	5.41	4.74	-
2.00	-	9.24a	17.86b	14.81	11.83	9.74	8.23	7.09	6.11	5.32	4.69	4.15
1.00	-	9.45a	15.27a	14.13	11.30	9.37	7.95	6.88	5.92	5.19	4.60	4.09
0.00	9.08a	15.33a	18.00	13.67	10.95	9.07	7.73	6.64	5.79	5.07	4.50	-
-1.00	18.29a	25.60a	17.64	13.42	10.74	8.90	7.55	6.48	5.65	4.98	4.47	-
-2.00	29.94a	23.87b	17.94	13.40	10.68	8.74	7.41	6.37	5.57	4.98	-	-
-3.00	22.37b	21.53b	18.10	13.33	10.55	8.66	7.38	6.38	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 59 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4eU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	6.83	5.15	4.01	3.16	-	-	-	-	-	-	-
7.00	-	6.84	5.18	4.08	3.28	2.67	2.19	-	-	-	-	-
6.00	3.13a	4.60a	4.90	3.88	3.16	2.60	2.17	1.81	1.51	-	-	-
5.00	4.01a	3.81a	3.18a	3.46	2.85	2.39	2.03	1.72	1.46	1.23	-	-
4.00	4.08a	3.42a	3.98	3.04	2.42	2.10	1.81	1.56	1.35	1.16	0.99	-
3.00	1.21a	1.26a	1.66a	1.76a	2.11	1.76	1.56	1.38	1.21	1.07	0.93	-
2.00	-	2.25a	2.58a	2.33	1.26a	1.49	1.34	1.21	1.08	0.97	0.85	0.69
1.00	-	1.83a	2.16a	2.02	1.61	1.34	1.20	1.08	0.98	0.88	0.75	0.63
0.00	2.14a	2.16a	2.08a	1.86	1.49	1.27	1.12	1.01	0.91	0.82	0.71	-
-1.00	1.95a	1.74a	2.18a	1.83	1.49	1.27	1.11	0.99	0.90	0.80	0.72	-
-2.00	4.44a	3.22	2.41	1.90	1.56	1.32	1.15	1.02	0.93	0.87	-	-
-3.00	4.76	3.36	2.55	2.02	1.67	1.42	1.25	1.12	-	-	-	-
-4.00	5.10	3.66	2.80	2.25	1.88	-	-	-	-	-	-	-

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
8.00	-	6.89	5.25	4.05	3.17	-	-	-	-	-	-	-
7.00	-	6.90	5.35	4.30	3.45	2.76	2.22	-	-	-	-	-
6.00	3.96a	6.27a	5.24	4.25	3.54	2.88	2.34	1.89	1.52	-	-	-
5.00	5.07a	6.41	5.05	4.14	3.48	2.90	2.37	1.93	1.57	1.26	-	-
4.00	8.21	6.14	4.88	4.03	3.39	2.80	2.33	1.89	1.55	1.25	1.01	-
3.00	3.57a	5.75	4.54	3.71	3.08	2.59	2.16	1.81	1.48	1.20	0.98	-
2.00	-	4.45	3.80	3.18	2.72	2.30	1.96	1.68	1.39	1.14	0.93	0.69
1.00	-	3.84	3.23	2.76	2.37	2.04	1.76	1.53	1.25	1.03	0.87	0.63
0.00	4.79	3.59	2.93	2.47	2.13	1.83	1.60	1.35	1.15	0.95	0.76	-
-1.00	4.77	3.53	2.78	2.31	1.99	1.71	1.47	1.23	1.04	0.88	0.72	-
-2.00	4.84	3.55	2.78	2.30	1.95	1.60	1.37	1.15	0.98	0.87	-	-
-3.00	4.98	3.69	2.88	2.26	1.87	1.54	1.35	1.16	-	-	-	-
-4.00	5.23	3.82	2.91	2.33	1.93	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 60 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 35° - +/- 45°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4eL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	10.16	7.99	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	8.15	6.67	5.56	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	7.98	6.57	5.54	4.71	4.05	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.57	6.29	5.35	4.60	3.99	3.49	-	-
4.00	4.08a	3.42a	4.40a	8.81	7.00	5.92	5.07	4.40	3.86	3.40	3.01	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	5.48	4.75	4.17	3.69	3.28	2.93	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.47	3.96	3.52	3.16	2.84	2.56
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	4.29	3.80	3.39	3.05	2.76	2.51
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	4.20	3.71	3.31	2.99	2.72	-
-1.00	1.95a	1.74a	2.18a	2.25a	5.75	4.84	4.18	3.68	3.29	2.97	2.73	-
-2.00	4.44a	3.37a	6.02a	7.22	5.84	4.90	4.23	3.72	3.33	3.05	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	5.99	5.03	4.35	3.85	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	10.21	7.99	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.55	8.37	6.78	5.59	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	8.49	6.94	5.75	4.82	4.06	-	-	-
5.00	5.07a	8.09a	9.75a	10.33	8.42	6.97	5.78	4.86	4.13	3.52	-	-
4.00	18.29a	17.27	12.86	10.18	8.30	6.84	5.73	4.81	4.11	3.51	3.03	-
3.00	3.57a	17.05	12.54	9.73	7.88	6.56	5.52	4.71	4.02	3.45	2.99	-
2.00	-	9.24a	11.45	9.00	7.39	6.18	5.26	4.55	3.91	3.37	2.94	2.56
1.00	-	9.45a	10.60	8.41	6.92	5.84	5.00	4.36	3.73	3.24	2.86	2.51
0.00	9.08a	13.91	10.16	8.01	6.61	5.57	4.80	4.14	3.61	3.14	2.76	-
-1.00	18.29a	13.80	9.95	7.79	6.42	5.41	4.64	3.99	3.47	3.05	2.73	-
-2.00	22.44	13.83	9.95	7.77	6.37	5.27	4.51	3.89	3.40	3.05	-	-
-3.00	22.37b	14.06	10.09	7.72	6.25	5.19	4.48	3.90	-	-	-	-
-4.00	13.59b	12.62b	10.14	7.81	6.34b	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4fu	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	5.93	4.49	3.49	2.74	-	-	-	-	-	-	-
7.00	-	5.95	4.52	3.56	2.86	2.31	1.88	-	-	-	-	-
6.00	3.13a	4.60a	4.24	3.37	2.73	2.24	1.86	1.54	1.26	-	-	-
5.00	4.01a	3.81a	3.18a	2.96	2.43	2.03	1.72	1.45	1.22	1.01	-	-
4.00	4.08a	3.42a	3.36	2.55	2.01	1.75	1.51	1.29	1.11	0.94	0.75	-
3.00	1.21a	1.26a	1.66a	1.76a	1.71	1.42	1.26	1.11	0.97	0.84	0.66	-
2.00	-	2.25a	2.42	1.86	1.26a	1.15	1.05	0.95	0.85	0.70	0.55	0.42
1.00	-	1.83a	2.03	1.55	1.23	1.01	0.91	0.82	0.70	0.57	0.46	0.36
0.00	2.14a	2.16a	1.83	1.40	1.11	0.94	0.83	0.73	0.61	0.51	0.42	-
-1.00	1.95a	1.74a	1.79	1.37	1.11	0.94	0.82	0.70	0.58	0.49	0.43	-
-2.00	3.53	2.48	1.85	1.44	1.17	0.99	0.86	0.74	0.63	0.57	-	-
-3.00	3.69	2.61	1.97	1.56	1.28	1.09	0.95	0.86	-	-	-	-
-4.00	4.01	2.89	2.21	1.78	1.49	-	-	-	-	-	-	-

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
8.00	-	5.99	4.58	3.53	2.74	-	-	-	-	-	-	-
7.00	-	6.00	4.68	3.77	3.02	2.40	1.90	-	-	-	-	-
6.00	3.96a	5.82	4.57	3.73	3.10	2.52	2.03	1.62	1.27	-	-	-
5.00	5.07a	5.53	4.39	3.62	3.05	2.54	2.05	1.65	1.33	1.04	-	-
4.00	6.94	5.27	4.22	3.51	2.96	2.44	2.01	1.61	1.31	1.03	0.78	-
3.00	3.57a	4.90	3.90	3.20	2.66	2.23	1.85	1.54	1.24	0.99	0.73	-
2.00	-	3.66	3.19	2.68	2.30	1.95	1.65	1.41	1.15	0.92	0.67	0.42
1.00	-	3.07	2.63	2.27	1.96	1.70	1.45	1.26	1.01	0.79	0.57	0.36
0.00	3.71	2.83	2.34	2.00	1.73	1.49	1.30	1.09	0.91	0.67	0.46	-
-1.00	3.69	2.77	2.20	1.84	1.60	1.37	1.17	0.97	0.79	0.58	0.43	-
-2.00	3.76	2.79	2.20	1.83	1.56	1.26	1.08	0.89	0.70	0.57	-	-
-3.00	3.89	2.93	2.29	1.79	1.48	1.21	1.05	0.90	-	-	-	-
-4.00	4.12	3.05	2.33	1.85	1.54	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 62 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 45° - +/- 65°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4fl	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	9.41	7.27	5.78	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	7.36	5.93	4.87	4.06	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	5.77	4.78	4.04	3.43	2.93	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	5.40	4.53	3.87	3.33	2.88	2.50	-	-
4.00	4.08a	3.42a	4.40a	6.07	4.88	4.18	3.61	3.14	2.76	2.42	2.12	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	3.78	3.31	2.92	2.59	2.31	2.05	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.05	2.73	2.44	2.19	1.97	1.77
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.88	2.57	2.31	2.08	1.89	1.72
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.18	2.79	2.49	2.24	2.03	1.85	-
-1.00	1.95a	1.74a	2.18a	2.25a	3.74	3.19	2.78	2.47	2.22	2.01	1.86	-
-2.00	4.44a	3.37a	5.92	4.66	3.82	3.24	2.82	2.50	2.26	2.08	-	-
-3.00	10.60b	8.2	6.09	4.81	3.96	3.37	2.94	2.62	-	-	-	-
-4.00	10.97b	8.51b	6.41	5.09	4.22	-	-	-	-	-	-	-

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
8.00	-	11.45a	9.53	7.32	5.78	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	7.63	6.13	4.98	4.09	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	7.57	6.24	5.12	4.24	3.53	2.95	-	-	-
5.00	5.07a	8.09a	9.28	7.43	6.17	5.15	4.27	3.57	3.01	2.54	-	-
4.00	17.13	11.88	9.06	7.30	6.06	5.03	4.22	3.52	2.99	2.53	2.15	-
3.00	3.57a	11.36	8.63	6.90	5.68	4.77	4.03	3.43	2.91	2.47	2.11	-
2.00	-	9.24a	7.69	6.24	5.24	4.42	3.79	3.28	2.80	2.39	2.06	1.77
1.00	-	8.82	6.96	5.72	4.81	4.11	3.55	3.10	2.63	2.27	1.98	1.72
0.00	9.08a	8.51	6.57	5.36	4.52	3.86	3.36	2.89	2.51	2.17	1.89	-
-1.00	12.23	8.41	6.39	5.17	4.35	3.72	3.20	2.75	2.39	2.09	1.86	-
-2.00	12.32	8.44	6.39	5.15	4.30	3.58	3.09	2.66	2.32	2.08	-	-
-3.00	12.53	8.63	6.51	5.10	4.20	3.51	3.06	2.67	-	-	-	-
-4.00	12.88	8.81	6.56	5.18	4.28	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 63 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4gJ	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	5.53	4.18	3.24	2.52	-	-	-	-	-	-	-
7.00	-	5.54	4.21	3.30	2.64	2.13	1.72	-	-	-	-	-
6.00	3.13a	4.60a	3.93	3.11	2.52	2.05	1.70	1.39	1.13	-	-	-
5.00	4.01a	3.81a	3.18a	2.71	2.22	1.85	1.56	1.30	1.09	0.89	-	-
4.00	4.08a	3.42a	3.06	2.30	1.80	1.57	1.34	1.15	0.98	0.79	0.58	-
3.00	1.21a	1.26a	1.66a	1.76a	1.51	1.24	1.10	0.97	0.83	0.66	0.49	-
2.00	-	2.25a	2.12	1.61	1.23	0.97	0.89	0.79	0.65	0.52	0.39	0.27
1.00	-	1.83a	1.74	1.31	1.02	0.83	0.73	0.61	0.50	0.39	0.30	0.21
0.00	2.14a	2.13	1.54	1.16	0.90	0.76	0.62	0.51	0.41	0.33	0.25	-
-1.00	1.95a	1.74a	1.50	1.13	0.90	0.76	0.60	0.48	0.39	0.31	0.26	-
-2.00	3.03	2.11	1.56	1.20	0.97	0.81	0.65	0.53	0.43	0.39	-	-
-3.00	3.19	2.24	1.68	1.32	1.08	0.91	0.79	0.67	-	-	-	-
-4.00	3.50	2.52	1.92	1.54	1.28	-	-	-	-	-	-	-

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
8.00	-	5.59	4.27	3.28	2.53	-	-	-	-	-	-	-
7.00	-	5.60	4.37	3.51	2.80	2.21	1.74	-	-	-	-	-
6.00	3.96a	5.42	4.26	3.47	2.89	2.33	1.86	1.47	1.14	-	-	-
5.00	5.07a	5.13	4.08	3.36	2.83	2.35	1.89	1.50	1.19	0.92	-	-
4.00	6.40	4.87	3.91	3.25	2.75	2.25	1.85	1.46	1.17	0.91	0.61	-
3.00	3.57a	4.51	3.60	2.94	2.44	2.04	1.69	1.39	1.11	0.86	0.57	-
2.00	-	3.28	2.88	2.43	2.09	1.76	1.49	1.26	1.02	0.76	0.50	0.27
1.00	-	2.69	2.33	2.03	1.75	1.51	1.29	1.12	0.88	0.62	0.41	0.21
0.00	3.21	2.46	2.04	1.75	1.53	1.31	1.14	0.94	0.74	0.49	0.30	-
-1.00	3.19	2.40	1.91	1.60	1.39	1.19	1.01	0.82	0.59	0.40	0.26	-
-2.00	3.25	2.42	1.91	1.59	1.35	1.08	0.92	0.71	0.51	0.39	-	-
-3.00	3.39	2.55	2.00	1.54	1.27	1.03	0.89	0.72	-	-	-	-
-4.00	3.62	2.68	2.03	1.61	1.33	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 64 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 65° - +/- 115°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4gL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	8.54	6.59	5.19	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	6.68	5.36	4.36	3.51	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.40	5.18	4.24	3.48	2.84	2.32	-	-	-
5.00	4.01a	3.81a	3.18a	5.81	4.75	3.93	3.26	2.71	2.25	1.85	-	-
4.00	4.08a	3.42a	4.40a	5.22	4.13	3.49	2.93	2.47	2.09	1.75	1.44	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.97	2.55	2.19	1.88	1.60	1.35	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.23	1.94	1.68	1.45	1.24	1.05
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	2.02	1.75	1.53	1.32	1.14	0.99
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.23	1.90	1.65	1.43	1.25	1.10	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.71	2.23	1.88	1.61	1.40	1.23	1.11	-
-2.00	4.44a	3.37a	4.60	3.54	2.81	2.30	1.93	1.66	1.45	1.32	-	-
-3.00	9.45	6.43	4.79	3.73	2.98	2.46	2.08	1.81	-	-	-	-
-4.00	9.97	6.87	5.15	4.08	3.31	-	-	-	-	-	-	-

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
8.00	-	11.45a	8.67	6.64	5.19	-	-	-	-	-	-	-
7.00	-	7.60a	8.82	6.99	5.59	4.49	3.55	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	6.93	5.71	4.65	3.73	2.97	2.34	-	-	-
5.00	5.07a	8.09a	8.39	6.77	5.63	4.69	3.78	3.02	2.41	1.90	-	-
4.00	14.79	10.53	8.14	6.61	5.51	4.55	3.71	2.96	2.38	1.88	1.48	-
3.00	3.57a	9.96	7.66	6.16	5.07	4.23	3.47	2.84	2.28	1.81	1.43	-
2.00	-	8.04	6.60	5.41	4.57	3.79	3.16	2.65	2.15	1.71	1.36	1.05
1.00	-	7.13	5.77	4.81	4.05	3.40	2.85	2.42	1.93	1.56	1.26	0.99
0.00	9.08a	6.77	5.34	4.41	3.69	3.08	2.61	2.16	1.78	1.43	1.15	-
-1.00	9.46	6.67	5.13	4.18	3.48	2.90	2.42	1.98	1.62	1.32	1.11	-
-2.00	9.56	6.70	5.13	4.16	3.41	2.73	2.27	1.86	1.53	1.32	-	-
-3.00	9.78	6.92	5.27	4.10	3.28	2.64	2.23	1.87	-	-	-	-
-4.00	10.17	7.11	5.32	4.20	3.38	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4hU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	6.44	4.86	3.78	2.97	-	-	-	-	-	-	-
7.00	-	6.45	4.89	3.84	3.09	2.51	2.04	-	-	-	-	-
6.00	3.13a	4.60a	4.61	3.65	2.96	2.43	2.03	1.68	1.39	-	-	-
5.00	4.01a	3.81a	3.18a	3.23	2.66	2.22	1.88	1.59	1.35	1.13	-	-
4.00	4.08a	3.42a	3.70	2.82	2.23	1.94	1.67	1.43	1.24	1.06	0.89	-
3.00	1.21a	1.26a	1.66a	1.76a	1.93	1.60	1.42	1.25	1.10	0.96	0.81	-
2.00	-	2.25a	2.58a	2.11	1.26a	1.33	1.20	1.09	0.97	0.86	0.71	0.56
1.00	-	1.83a	2.16a	1.80	1.43	1.18	1.06	0.96	0.86	0.74	0.61	0.50
0.00	2.14a	2.16a	2.08a	1.64	1.31	1.11	0.99	0.89	0.79	0.67	0.57	-
-1.00	1.95a	1.74a	2.09	1.62	1.31	1.11	0.98	0.87	0.76	0.65	0.58	-
-2.00	4.12	2.88	2.15	1.68	1.37	1.16	1.01	0.90	0.81	0.73	-	-
-3.00	4.28	3.02	2.28	1.81	1.49	1.26	1.11	1.00	-	-	-	-
-4.00	4.61	3.31	2.53	2.03	1.70	-	-	-	-	-	-	-

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
8.00	-	6.50	4.95	3.82	2.97	-	-	-	-	-	-	-
7.00	-	6.51	5.05	4.06	3.25	2.60	2.07	-	-	-	-	-
6.00	3.96a	6.27a	4.94	4.02	3.34	2.71	2.19	1.76	1.40	-	-	-
5.00	5.07a	6.02	4.76	3.90	3.28	2.74	2.22	1.80	1.45	1.16	-	-
4.00	7.66	5.76	4.59	3.79	3.20	2.64	2.18	1.76	1.44	1.15	0.92	-
3.00	3.57a	5.37	4.26	3.47	2.89	2.42	2.02	1.68	1.37	1.10	0.88	-
2.00	-	4.09	3.52	2.95	2.53	2.14	1.82	1.55	1.28	1.03	0.82	0.56
1.00	-	3.48	2.95	2.53	2.18	1.88	1.61	1.40	1.13	0.93	0.73	0.50
0.00	4.30	3.25	2.65	2.25	1.95	1.67	1.46	1.23	1.03	0.84	0.62	-
-1.00	4.28	3.18	2.51	2.09	1.81	1.55	1.33	1.11	0.93	0.74	0.58	-
-2.00	4.35	3.20	2.51	2.08	1.77	1.44	1.23	1.03	0.87	0.73	-	-
-3.00	4.49	3.34	2.61	2.04	1.68	1.39	1.20	1.04	-	-	-	-
-4.00	4.73	3.47	2.64	2.11	1.74	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 66 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 115° - +/- 135°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4hL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	10.37	8.06	6.44	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.14	6.59	5.44	4.56	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	6.43	5.35	4.54	3.88	3.34	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	6.06	5.10	4.37	3.77	3.28	2.87	-	-
4.00	4.08a	3.42a	4.40a	6.85	5.53	4.75	4.11	3.58	3.16	2.78	2.46	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	4.34	3.81	3.37	2.99	2.67	2.39	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.55	3.17	2.84	2.56	2.30	2.08
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	3.38	3.02	2.71	2.45	2.23	2.03
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.75	3.29	2.94	2.64	2.40	2.19	-
-1.00	1.95a	1.74a	2.18a	2.25a	4.40	3.75	3.28	2.91	2.62	2.38	2.20	-
-2.00	4.44a	3.37a	6.02a	5.44	4.48	3.81	3.32	2.95	2.66	2.45	-	-
-3.00	10.60b	8.21b	6.66b	5.59	4.62	3.93	3.43	3.07	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	4.88	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.49	8.11	6.44	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.41	6.78	5.55	4.59	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.36	6.89	5.69	4.74	3.98	3.35	-	-	-
5.00	5.07a	8.09a	9.75a	8.21	6.83	5.72	4.77	4.01	3.41	2.90	-	-
4.00	18.62b	13.13	10.02	8.08	6.72	5.60	4.72	3.97	3.39	2.89	2.49	-
3.00	3.57a	12.62	9.60	7.68	6.34	5.34	4.53	3.88	3.31	2.83	2.45	-
2.00	-	9.24a	8.65	7.02	5.89	4.99	4.29	3.73	3.20	2.76	2.40	2.08
1.00	-	9.45a	7.92	6.50	5.47	4.68	4.04	3.55	3.03	2.64	2.32	2.03
0.00	9.08a	9.76	7.54	6.14	5.18	4.43	3.85	3.34	2.92	2.53	2.23	-
-1.00	14.04	9.67	7.36	5.95	5.01	4.28	3.70	3.20	2.79	2.45	2.20	-
-2.00	14.13	9.70	7.35	5.93	4.96	4.15	3.59	3.10	2.72	2.45	-	-
-3.00	14.34	9.89	7.48	5.88	4.86	4.08	3.55	3.11	-	-	-	-
-4.00	13.59b	10.07	7.52	5.97	4.93	-	-	-	-	-	-	-

NOTES
 SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower).
 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, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4IU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	9.31	6.96	5.41	4.30	-	-	-	-	-	-	-
7.00	-	7.19a	6.99	5.48	4.43	3.64	3.02	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	5.28	4.30	3.56	3.00	2.54	2.15	-	-	-
5.00	4.01a	3.81a	3.18a	4.83	3.97	3.34	2.85	2.45	2.11	1.82	-	-
4.00	4.08a	3.42a	4.40a	4.38	3.52	3.04	2.63	2.28	2.00	1.74	1.52	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	2.68	2.36	2.09	1.85	1.64	1.45	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	2.14	1.92	1.72	1.54	1.38	1.23
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	1.99	1.78	1.61	1.45	1.31	1.19
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	2.17	1.91	1.71	1.54	1.40	1.28	-
-1.00	1.95a	1.74a	2.18a	2.25a	2.54	2.17	1.90	1.69	1.52	1.39	1.29	-
-2.00	4.44a	3.37a	4.01	3.17	2.61	2.22	1.94	1.72	1.56	1.45	-	-
-3.00	7.96	5.51	4.15	3.30	2.73	2.33	2.04	1.83	-	-	-	-
-4.00	8.35	5.83	4.42	3.54	2.96	-	-	-	-	-	-	-

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
8.00	-	9.39	7.06	5.46	4.31	-	-	-	-	-	-	-
7.00	-	7.60a	7.17	5.72	4.60	3.73	3.05	-	-	-	-	-
6.00	3.96a	6.27a	7.05	5.67	4.70	3.85	3.18	2.62	2.17	-	-	-
5.00	5.07a	8.09a	6.85	5.55	4.64	3.88	3.21	2.66	2.22	1.85	-	-
4.00	11.89	8.56	6.66	5.43	4.55	3.77	3.16	2.62	2.20	1.84	1.54	-
3.00	3.57a	8.13	6.30	5.09	4.22	3.55	2.99	2.54	2.13	1.79	1.51	-
2.00	-	6.71	5.50	4.53	3.83	3.25	2.78	2.41	2.04	1.72	1.46	1.23
1.00	-	6.03	4.88	4.08	3.47	2.98	2.57	2.25	1.89	1.61	1.39	1.19
0.00	7.99	5.76	4.56	3.78	3.22	2.76	2.40	2.07	1.79	1.52	1.31	-
-1.00	7.97	5.69	4.41	3.61	3.07	2.63	2.27	1.94	1.68	1.45	1.29	-
-2.00	8.04	5.71	4.40	3.59	3.03	2.51	2.17	1.86	1.61	1.45	-	-
-3.00	8.21	5.87	4.51	3.55	2.94	2.46	2.14	1.87	-	-	-	-
-4.00	8.49	6.01	4.54	3.62	3.00	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 68 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 135° - +/- 145°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4iL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	10.64	8.39	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	8.55	7.01	5.85	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	6.91	5.83	4.97	4.28	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	6.63	5.64	4.86	4.23	3.70	-	-
4.00	4.08a	3.42a	4.40a	7.69a	7.40	6.26	5.37	4.66	4.10	3.61	3.20	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	5.82	5.05	4.43	3.92	3.49	3.12	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	4.77	4.22	3.76	3.37	3.03	2.74
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	4.59	4.06	3.63	3.26	2.95	2.69
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	4.49	3.97	3.55	3.20	2.92	-
-1.00	1.95a	1.74a	2.18a	2.25a	6.15	5.18	4.48	3.94	3.53	3.19	2.93	-
-2.00	4.44a	3.37a	6.02a	7.71	6.24	5.24	4.52	3.98	3.57	3.26	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	6.39	5.37	4.65	4.11	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

Maximum Maximum Maximum Maximum 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
8.00	-	11.45a	13.20a	10.70	8.40	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	8.77	7.12	5.89	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	8.89	7.28	6.04	5.08	4.30	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	8.82	7.31	6.08	5.12	4.36	3.74	-	-
4.00	18.29a	17.48b	13.36	10.62b	8.70	7.18	6.03	5.07	4.34	3.73	3.23	-
3.00	3.57a	17.33b	13.16	10.22	8.28	6.90	5.82	4.97	4.25	3.67	3.19	-
2.00	-	9.24a	12.07	9.48	7.79	6.52	5.56	4.81	4.14	3.58	3.13	2.74
1.00	-	9.45a	10.94	8.90	7.33	6.18	5.30	4.62	3.96	3.46	3.05	2.69
0.00	9.08a	14.76	10.78	8.50	7.01	5.91	5.10	4.40	3.84	3.35	2.96	-
-1.00	18.29a	14.65	10.57	8.28	6.82	5.75	4.93	4.25	3.71	3.26	2.93	-
-2.00	23.80	14.68	10.57	8.26	6.77	5.61	4.81	4.15	3.63	3.26	-	-
-3.00	22.37b	14.91	10.71	8.20	6.66	5.54	4.77	4.16	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 69 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4JU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	10.73	8.25	6.56	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.33	6.70	5.51	4.62	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	6.55	5.43	4.60	3.93	3.38	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	6.20	5.19	4.43	3.83	3.33	2.91	-	-
4.00	4.08a	3.42a	4.40a	7.11	5.71	4.87	4.19	3.65	3.21	2.84	2.51	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	4.49	3.92	3.45	3.06	2.73	2.44	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	3.67	3.27	2.92	2.62	2.36	2.14
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	3.52	3.13	2.80	2.53	2.29	2.09
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	3.43	3.05	2.73	2.48	2.26	-
-1.00	1.95a	1.74a	2.18a	2.25a	4.64	3.93	3.42	3.03	2.72	2.46	2.27	-
-2.00	4.44a	3.37a	6.02a	5.76	4.71	3.99	3.46	3.06	2.75	2.53	-	-
-3.00	10.60b	8.21b	6.66b	5.91	4.84	4.10	3.57	3.17	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	10.84	8.30	6.56	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	8.59	6.88	5.61	4.64	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	8.53	6.99	5.75	4.78	4.02	3.39	-	-	-
5.00	5.07a	8.09a	9.75a	8.40	6.92	5.77	4.81	4.05	3.45	2.94	-	-
4.00	18.29a	13.91	10.39	8.27	6.82	5.66	4.77	4.01	3.43	2.94	2.53	-
3.00	3.57a	13.41	9.98	7.89	6.46	5.42	4.59	3.93	3.35	2.88	2.50	-
2.00	-	9.24a	9.08	7.27	6.05	5.09	4.36	3.78	3.26	2.81	2.45	2.14
1.00	-	9.45a	8.37	6.77	5.64	4.80	4.13	3.62	3.10	2.70	2.38	2.09
0.00	9.08a	10.61	8.01	6.43	5.38	4.57	3.96	3.42	2.99	2.60	2.30	-
-1.00	15.94	10.53	7.83	6.25	5.21	4.43	3.82	3.29	2.88	2.53	2.27	-
-2.00	16.03	10.55	7.83	6.23	5.17	4.30	3.71	3.20	2.81	2.53	-	-
-3.00	16.24	10.74	7.95	6.18	5.07	4.24	3.68	3.21	-	-	-	-
-4.00	13.59b	10.91	7.99	6.26	5.14	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 70 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 145° - +/- 155°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	75 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4jL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	9.75	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	8.31	7.20	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	8.19	7.14	6.28	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	7.97	7.00	6.19	5.52	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.37	8.87	7.72	6.81	6.07	5.44	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	8.57	7.50	6.64	5.94	5.35	4.85
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	8.38	7.33	6.50	5.82	5.26	4.79
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	8.27	7.23	6.41	5.76	5.22	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	8.26	7.20	6.39	5.74	5.23	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	8.30	7.25	6.43	5.82	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	9.78	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	9.91	8.42	7.22	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	9.85	8.47	7.28	6.32	-	-
4.00	18.29a	17.48b	16.76b	16.15b	13.53b	11.37	9.79	8.41	7.26	6.31	5.55	-
3.00	3.57a	17.33b	16.63b	15.71b	13.42	11.30	9.71	8.31	7.17	6.25	5.51	-
2.00	-	9.24a	17.86b	16.44	13.42	11.14	9.43	8.14	7.05	6.16	5.45	4.85
1.00	-	9.45a	15.27a	16.23	12.98	10.77	9.15	7.93	6.86	6.03	5.36	4.79
0.00	9.08a	15.33a	20.80	15.77	12.63	10.47	8.93	7.69	6.73	5.91	5.27	-
-1.00	18.29a	25.60a	20.45	15.52	12.42	10.30	8.75	7.53	6.59	5.82	5.23	-
-2.00	29.94a	23.87b	20.74	15.50	12.36	10.14	8.61	7.42	6.50	5.82	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	12.23	10.06	8.58	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 71 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4kU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	9.15	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.13	7.72	6.63	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	8.93	7.60	6.57	5.74	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	8.64	7.39	6.44	5.66	5.02	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	9.84	8.30	7.16	6.26	5.54	4.94	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	8.01	6.94	6.10	5.42	4.85	4.38
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	7.83	6.77	5.96	5.31	4.77	4.33
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	7.72	6.68	5.88	5.25	4.73	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	7.71	6.66	5.86	5.23	4.74	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.21	7.75	6.70	5.90	5.30	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.19	9.19	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	9.35	7.82	6.64	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	9.34	7.87	6.71	5.78	-	-
4.00	18.29a	17.48b	16.76b	16.15b	13.20	10.91	9.30	7.81	6.69	5.77	5.04	-
3.00	3.57a	17.33b	16.63b	15.71b	13.08	10.85	9.11	7.72	6.60	5.71	5.00	-
2.00	-	9.24a	17.86b	16.40	13.09	10.59	8.84	7.55	6.48	5.63	4.95	4.38
1.00	-	9.45a	15.27a	16.18	12.57	10.23	8.57	7.35	6.30	5.50	4.87	4.33
0.00	9.08a	15.33a	20.99a	15.71	12.22	9.93	8.36	7.13	6.18	5.40	4.78	-
-1.00	18.29a	25.60a	21.41	15.45	12.01	9.77	8.18	6.97	6.05	5.31	4.74	-
-2.00	29.94a	23.87b	21.52b	15.43	11.95	9.61	8.05	6.87	5.97	5.30	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	11.82	9.53	8.02	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 72 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 155° - +/- 165°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4kL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.23	8.28
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.28
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.25	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 73 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Unlocked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	67 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4IU	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 74 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).

Rated Lift Capacity Chart

Machine Type	RAIL-ABILITY RA400 RAIL-MAX	Sector	+/- 165° - +/- 180°
FLEET Number	RTEM001, RTEM002, RTEM003	Osc Axle	Locked
Equipment	3.00m + 1.91m + 2.85m	Safety Factor	90 %
System Type	RIS 1530	Date	09/01/2015
Config	RAIL 100-150mm DOWN CANT	Bucket Pin - 4IL	
SEE DUTY 2 CHARTS FOR LIFTING DUTIES UP CANT			



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
8.00	-	10.73a	11.57a	12.47a	12.94b	-	-	-	-	-	-	-
7.00	-	7.19a	8.01a	8.88a	9.83a	10.42b	10.75b	-	-	-	-	-
6.00	3.13a	4.60a	5.71a	6.96a	8.10a	9.00a	9.55b	9.89b	10.03b	-	-	-
5.00	4.01a	3.81a	3.18a	6.18a	7.77a	8.71b	9.10b	9.42b	9.52b	9.54b	-	-
4.00	4.08a	3.42a	4.40a	7.69a	9.23b	9.17b	9.21b	9.50b	9.50b	9.47b	9.23b	-
3.00	1.21a	1.26a	1.66a	1.76a	2.39a	10.40b	10.11b	9.91b	9.80b	9.61b	9.26b	-
2.00	-	2.25a	2.58a	2.53a	1.26a	1.87a	11.25b	10.66b	10.29b	9.86b	9.26b	8.48b
1.00	-	1.83a	2.16a	2.02a	2.39a	2.07a	10.22a	11.48b	10.71b	9.80b	8.96b	8.03b
0.00	2.14a	2.16a	2.08a	2.17a	2.42a	3.82a	11.17a	11.09b	10.15b	9.29b	8.39b	-
-1.00	1.95a	1.74a	2.18a	2.25a	7.29a	7.66a	10.88b	10.01b	9.16b	8.20b	7.12b	-
-2.00	4.44a	3.37a	6.02a	9.90b	8.12a	9.57b	9.03b	8.39b	7.50b	6.41b	-	-
-3.00	10.60b	8.21b	6.66b	7.00b	7.22b	7.03b	6.59b	5.72b	-	-	-	-
-4.00	10.97b	8.51b	6.92b	5.83b	5.04b	-	-	-	-	-	-	-

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
8.00	-	11.45a	13.20a	13.17b	13.12b	-	-	-	-	-	-	-
7.00	-	7.60a	9.42a	10.95b	11.12a	11.25b	11.26b	-	-	-	-	-
6.00	3.96a	6.27a	8.26a	9.98a	10.39a	10.60b	10.64b	10.71b	10.19b	-	-	-
5.00	5.07a	8.09a	9.75a	10.75b	10.96a	10.97b	10.92a	10.74b	10.30b	9.76b	-	-
4.00	18.29a	17.48b	16.76b	16.15b	15.30b	13.55b	12.31b	11.36b	10.53b	9.89b	9.30b	-
3.00	3.57a	17.33b	16.63b	15.71b	15.05b	14.26b	12.91b	11.75b	10.80b	10.01b	9.33b	-
2.00	-	9.24a	17.86b	16.59b	15.41b	14.31b	13.13b	11.91b	10.90b	10.04b	9.32b	8.48b
1.00	-	9.45a	15.27a	17.87b	16.14b	14.59b	13.12b	11.90b	10.90b	10.08b	9.27b	8.03b
0.00	9.08a	15.33a	20.99a	18.95b	16.61b	14.70b	13.20b	12.01b	11.00b	9.95b	8.71b	-
-1.00	18.29a	25.60a	21.90b	19.25b	16.81b	14.88b	13.30b	11.86b	10.50b	9.03b	7.12b	-
-2.00	29.94a	23.87b	21.52b	18.59b	16.20b	13.99b	12.23b	10.46b	8.57b	6.41b	-	-
-3.00	22.37b	21.53b	18.43b	15.33b	13.07b	10.83b	9.04b	6.79b	-	-	-	-
-4.00	13.59b	12.62b	10.31b	8.25b	6.34b	-	-	-	-	-	-	-

NOTES	SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). 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.
PAGE 75 of 75	Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).