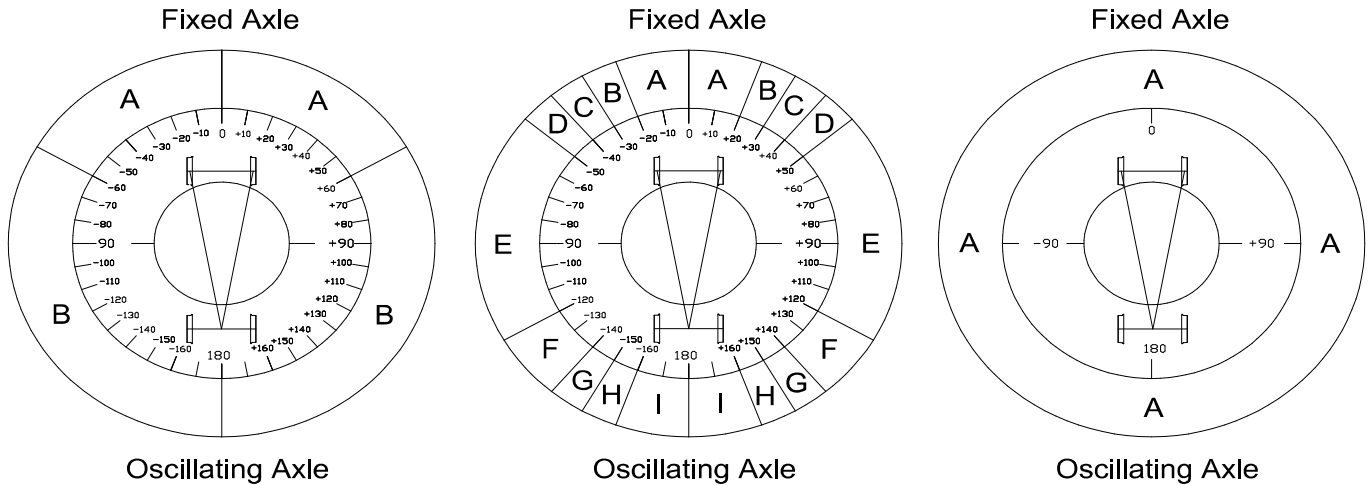


# ROADRAILER

by REXQUOTE

e-mail: sales@rexquote.co.uk  
 Web: www.rexquote.co.uk  
 TEL: 01823 433398



**Road Duties**

**Rail Duties**  
 Level Rail 0 - 50 mm  
 Canted Rail 50 - 150 mm

**Rail Duties**  
 Maximum Cant + Twist  
 150 + 27 mm

## QUICK HITCH LIFTING CHARTS

**Machine fitted with permanently attached Quick Hitch**

Machine Type:	Komatsu PC138	
Serial Number:	F50106	
Rail Axle Number:	2469	
Network Rail Number:	99709 911349-7	
Equipment:	Boom 1.96m Artic 3.23m Arm 2.5m	
Date:	03rd July 2017	
Issue:	1	
Software Versions:		
	Safety Controller	V1.26.0.20
	I/O Controller 1	V1.26.0.20
	I/O Controller 2	V1.26.0.20
	MMI	V1.26.0.20

This machine is equipped with a PME Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530-PLT Issue 6

Radius / Height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the lifting point with no other equipment attached. This machine is fitted with an hydraulically adjustable boom. This allows the machine to reach the same point in space with a variety of different equipment angles, each combination has a different safe working load. The charts on the following pages show both the upper & lower limits of the loads achievable. Loads marked 'b' boom, 'r' articulation, 'a' arm and 'k' bucket cylinder are limited by hydraulic capacity. Loads marked 'c' indicates a capped SWL.

All rail duties listed are valid for use on and up to a 1:25 gradient, and with a maximum track twist of 27mm.

Machine Type	Komatsu PC128	Equipment	1.96m + 3.23m + 2.50m
Issue Date	04/07/2017	Reference	RRV148 / 2469
System Type	PME RAIL	Additional Info.	Triple



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AU (Minimum Loads)	HITCH	ROAD	+/- 60° Over Osc End		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.36a	3.26a	1.92a	1.94a	-	-	-	-	-	-	-
7.00	-	-	-	-	1.86k	1.72k	1.58a	1.63a	-	-	-	-	-
6.00	-	-	-	-	3.16b	2.42k	1.78a	1.49a	1.44a	1.43a	-	-	-
5.00	-	-	-	3.48a	2.99a	2.64b	2.20b	1.51a	1.34a	1.33a	1.33a	-	-
4.00	-	-	3.89a	2.75a	2.85a	2.60b	2.23b	1.68a	1.36a	1.28a	1.34a	1.32a	-
3.00	3.16k	3.31k	3.79k	3.45b	2.93b	2.53b	2.20b	1.83a	1.48a	1.30a	1.27a	1.27a	-
2.00	3.57k	3.27k	3.26k	3.29k	2.84b	2.46b	2.15r	1.85a	1.51a	1.38a	1.34a	1.32a	1.38a
1.00	3.64k	3.36k	3.48k	3.05k	2.77r	2.35r	2.12r	1.84a	1.62a	1.51a	1.41a	1.44a	1.33a
0.00	3.14a	3.68a	3.39k	3.16r	2.80r	2.52r	2.32r	2.10a	1.66a	1.61a	1.54a	1.50a	-
-1.00	3.06a	3.68a	3.17k	3.07k	3.09k	2.83	2.48	2.09a	1.78a	1.78	1.61a	1.51	-
-2.00	3.76a	3.48k	3.08k	3.19k	3.05k	2.82	2.47	2.19a	1.97	1.79	1.65	-	-
-3.00	3.50k	3.08k	3.13k	3.05k	3.00k	2.84	2.49	2.22	2.00	1.84	-	-	-
-4.00	3.35k	3.07k	3.24k	3.30k	3.38	2.91	2.56	2.29	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AU (Maximum Loads)	HITCH	ROAD	+/- 60° Over Osc End		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.80b	4.17a	3.51b	2.66a	-	-	-	-	-	-	-
7.00	-	-	-	-	3.58b	3.51	3.11	2.66a	-	-	-	-	-
6.00	-	-	-	-	3.33b	3.25b	3.09	2.77b	2.48	2.12	-	-	-
5.00	-	-	-	3.48a	3.61b	3.36b	3.11	2.78	2.48	2.19	1.90	-	-
4.00	-	-	4.38b	4.35b	3.99b	3.55	3.12	2.77	2.45	2.19	1.92	1.67	-
3.00	7.13b	6.42b	5.38b	4.72	4.09a	3.53	3.08	2.71	2.42	2.18	1.91	1.67	-
2.00	7.95b	7.12	5.67	4.73	3.99	3.45	3.02	2.68	2.40	2.16	1.88	1.65	1.45
1.00	8.09b	7.13b	5.67	4.67	3.94	3.42	3.00	2.67	2.40	2.11	1.84	1.61	1.42
0.00	8.91b	7.16	5.66	4.65	3.93	3.40	2.97	2.63	2.33	2.04	1.79	1.57	-
-1.00	9.65	7.09	5.59	4.58	3.87	3.33r	2.91	2.58r	2.25	1.97	1.73	1.54	-
-2.00	9.53	6.98	5.47	4.49	3.79	3.27	2.86	2.49	2.17	1.91	1.70	-	-
-3.00	9.64	7.05	5.53	4.52	3.79	3.23	2.77	2.41	2.12	1.88	-	-	-
-4.00	9.86	7.12	5.52	4.46	3.72	3.15	2.73	2.39	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BU (Minimum Loads)	HITCH	ROAD	+/- 60° - +/- 180°		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.36a	3.26a	1.92a	1.94a	-	-	-	-	-	-	-
7.00	-	-	-	-	1.86k	1.72k	1.58a	1.63a	-	-	-	-	-
6.00	-	-	-	-	3.16b	2.42k	1.78a	1.49a	1.44a	1.43a	-	-	-
5.00	-	-	-	3.48a	2.99a	2.64b	2.20b	1.51a	1.34a	1.33a	1.33a	-	-
4.00	-	-	3.89a	2.75a	2.85a	2.60b	2.23b	1.68a	1.36a	1.28a	1.34a	1.26	-
3.00	3.16k	3.31k	3.79k	3.45b	2.93b	2.53b	2.20b	1.83a	1.48a	1.30a	1.27a	1.21	-
2.00	3.57k	3.27k	3.26k	3.29k	2.84b	2.46b	2.15r	1.85a	1.51a	1.38a	1.32	1.17	1.09
1.00	3.64k	3.36k	3.48k	3.05k	2.77r	2.35r	2.12r	1.84a	1.62a	1.46	1.28	1.16	1.07
0.00	3.14a	3.68a	3.39k	3.16r	2.80r	2.49	2.12	1.83	1.60	1.41	1.26	1.15	-
-1.00	3.06a	3.68a	3.17k	3.07k	2.92	2.42	2.05	1.78	1.56	1.38	1.25	1.15	-
-2.00	3.76a	3.48k	3.08k	3.19k	2.90	2.40	2.04	1.77	1.56	1.40	1.27	-	-
-3.00	3.50k	3.08k	3.13k	3.05k	2.93	2.43	2.07	1.80	1.59	1.45	-	-	-
-4.00	3.35k	3.07k	3.24k	3.30k	3.02	2.51	2.15	1.89	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BU (Maximum Loads)	HITCH	ROAD	+/- 60° - +/- 180°		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.80b	4.17a	3.51b	2.66a	-	-	-	-	-	-	-
7.00	-	-	-	-	3.58b	3.34	2.91b	2.46	-	-	-	-	-
6.00	-	-	-	-	3.33b	3.25b	2.88b	2.53	2.16	1.79	-	-	-
5.00	-	-	-	3.48a	3.61b	3.35	2.91b	2.53	2.17	1.85	1.56	-	-
4.00	-	-	4.38b	4.35b	3.99b	3.36	2.88	2.48	2.15	1.86	1.57	1.33	-
3.00	7.13b	6.42b	5.38b	4.71	3.97b	3.32	2.80	2.43	2.12	1.86	1.57	1.32	-
2.00	7.95b	7.44b	5.96b	4.72	3.85b	3.22	2.74	2.39	2.10	1.82a	1.54	1.30	1.10
1.00	8.09b	7.81a	5.96b	4.64	3.79b	3.18	2.72	2.38	2.07	1.76	1.49	1.26	1.08
0.00	8.91b	8.36	5.98	4.63	3.77b	3.14	2.67	2.30	2.00	1.69	1.43	1.22	-
-1.00	10.00c	8.40	5.90	4.54	3.65	3.05	2.58	2.22	1.89	1.60	1.37	1.18	-
-2.00	10.00c	8.27	5.77	4.41	3.55	2.95	2.50	2.12	1.79	1.53	1.32	-	-
-3.00	10.00c	8.36	5.86	4.45	3.54	2.90	2.40	2.02	1.73	1.50	-	-	-
-4.00	10.00c	8.48	5.84	4.37	3.45	2.81	2.35	1.99	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AL (Minimum Loads)	HITCH	ROAD	+/- 60° Over Osc End		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.36a	3.26a	1.92a	1.94a	-	-	-	-	-	-	-
7.00	-	-	-	-	1.86k	1.72k	1.58a	1.63a	-	-	-	-	-
6.00	-	-	-	-	3.16b	2.42k	1.78a	1.49a	1.44a	1.43a	-	-	-
5.00	-	-	-	3.48a	2.99a	2.64b	2.20b	1.51a	1.34a	1.33a	1.33a	-	-
4.00	-	-	3.89a	2.75a	2.85a	2.60b	2.23b	1.68a	1.36a	1.28a	1.34a	1.32a	-
3.00	3.16k	3.31k	3.79k	3.45b	2.93b	2.53b	2.20b	1.83a	1.48a	1.30a	1.27a	1.27a	-
2.00	3.57k	3.27k	3.26k	3.29k	2.84b	2.46b	2.15r	1.85a	1.51a	1.38a	1.34a	1.32a	1.38a
1.00	3.64k	3.36k	3.48k	3.05k	2.77r	2.35r	2.12r	1.84a	1.62a	1.51a	1.41a	1.44a	1.33a
0.00	3.14a	3.68a	3.39k	3.16r	2.80r	2.52r	2.32r	2.10a	1.66a	1.61a	1.54a	1.50a	-
-1.00	3.06a	3.68a	3.17k	3.07k	3.09k	2.83	2.48	2.09a	1.78a	1.78	1.61a	1.51	-
-2.00	3.76a	3.48k	3.08k	3.19k	3.05k	2.82	2.47	2.19a	1.97	1.79	1.65	-	-
-3.00	3.50k	3.08k	3.13k	3.05k	3.00k	2.84	2.49	2.22	2.00	1.84	-	-	-
-4.00	3.35k	3.07k	3.24k	3.30k	3.38	2.91	2.56	2.29	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AL (Maximum Loads)	HITCH	ROAD	+/- 60° Over Osc End		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.80b	4.17a	3.51b	2.66a	-	-	-	-	-	-	-
7.00	-	-	-	-	3.58b	3.51	3.11	2.66a	-	-	-	-	-
6.00	-	-	-	-	3.33b	3.25b	3.09	2.77b	2.48	2.12	-	-	-
5.00	-	-	-	3.48a	3.61b	3.36b	3.11	2.78	2.48	2.19	1.90	-	-
4.00	-	-	4.38b	4.35b	3.99b	3.55	3.12	2.77	2.45	2.19	1.92	1.67	-
3.00	7.13b	6.42b	5.38b	4.72	4.09a	3.53	3.08	2.71	2.42	2.18	1.91	1.67	-
2.00	7.95b	7.12	5.67	4.73	3.99	3.45	3.02	2.68	2.40	2.16	1.88	1.65	1.45
1.00	8.09b	7.13b	5.67	4.67	3.94	3.42	3.00	2.67	2.40	2.11	1.84	1.61	1.42
0.00	8.91b	7.16	5.66	4.65	3.93	3.40	2.97	2.63	2.33	2.04	1.79	1.57	-
-1.00	9.65	7.09	5.59	4.58	3.87	3.33r	2.91	2.58r	2.25	1.97	1.73	1.54	-
-2.00	9.53	6.98	5.47	4.49	3.79	3.27	2.86	2.49	2.17	1.91	1.70	-	-
-3.00	9.64	7.05	5.53	4.52	3.79	3.23	2.77	2.41	2.12	1.88	-	-	-
-4.00	9.86	7.12	5.52	4.46	3.72	3.15	2.73	2.39	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BL (Minimum Loads)	HITCH	ROAD	+/- 60° - +/- 180°		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.36a	3.26a	1.92a	1.94a	-	-	-	-	-	-	-
7.00	-	-	-	-	1.86k	1.72k	1.58a	1.63a	-	-	-	-	-
6.00	-	-	-	-	3.16b	2.42k	1.78a	1.49a	1.44a	1.43a	-	-	-
5.00	-	-	-	3.48a	2.99a	2.64b	2.20b	1.51a	1.34a	1.33a	1.33a	-	-
4.00	-	-	3.89a	2.75a	2.85a	2.60b	2.23b	1.68a	1.36a	1.28a	1.34a	1.26	-
3.00	3.16k	3.31k	3.79k	3.45b	2.93b	2.53b	2.20b	1.83a	1.48a	1.30a	1.27a	1.21	-
2.00	3.57k	3.27k	3.26k	3.29k	2.84b	2.46b	2.15r	1.85a	1.51a	1.38a	1.32	1.17	1.09
1.00	3.64k	3.36k	3.48k	3.05k	2.77r	2.35r	2.12r	1.84a	1.62a	1.46	1.28	1.16	1.07
0.00	3.14a	3.68a	3.39k	3.16r	2.80r	2.49	2.12	1.83	1.60	1.41	1.26	1.15	-
-1.00	3.06a	3.68a	3.17k	3.07k	2.92	2.42	2.05	1.78	1.56	1.38	1.25	1.15	-
-2.00	3.76a	3.48k	3.08k	3.19k	2.90	2.40	2.04	1.77	1.56	1.40	1.27	-	-
-3.00	3.50k	3.08k	3.13k	3.05k	2.93	2.43	2.07	1.80	1.59	1.45	-	-	-
-4.00	3.35k	3.07k	3.24k	3.30k	3.02	2.51	2.15	1.89	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BL (Maximum Loads)	HITCH	ROAD	+/- 60° - +/- 180°		71%	

	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
9.00	-	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.80b	4.17a	3.51b	2.66a	-	-	-	-	-	-	-
7.00	-	-	-	-	3.58b	3.34	2.91b	2.46	-	-	-	-	-
6.00	-	-	-	-	3.33b	3.25b	2.88b	2.53	2.16	1.79	-	-	-
5.00	-	-	-	3.48a	3.61b	3.35	2.91b	2.53	2.17	1.85	1.56	-	-
4.00	-	-	4.38b	4.35b	3.99b	3.36	2.88	2.48	2.15	1.86	1.57	1.33	-
3.00	7.13b	6.42b	5.38b	4.71	3.97b	3.32	2.80	2.43	2.12	1.86	1.57	1.32	-
2.00	7.95b	7.44b	5.96b	4.72	3.85b	3.22	2.74	2.39	2.10	1.82a	1.54	1.30	1.10
1.00	8.09b	7.81a	5.96b	4.64	3.79b	3.18	2.72	2.38	2.07	1.76	1.49	1.26	1.08
0.00	8.91b	8.36	5.98	4.63	3.77b	3.14	2.67	2.30	2.00	1.69	1.43	1.22	-
-1.00	10.00c	8.40	5.90	4.54	3.65	3.05	2.58	2.22	1.89	1.60	1.37	1.18	-
-2.00	10.00c	8.27	5.77	4.41	3.55	2.95	2.50	2.12	1.79	1.53	1.32	-	-
-3.00	10.00c	8.36	5.86	4.45	3.54	2.90	2.40	2.02	1.73	1.50	-	-	-
-4.00	10.00c	8.48	5.84	4.37	3.45	2.81	2.35	1.99	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AU (Minimum Loads)	HITCH	RAIL	+/- 20° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AU (Maximum Loads)	HITCH	RAIL	+/- 20° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	3.00b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.19b	3.07b	2.90b	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.59b	3.34b	3.16b	3.01b	2.74r	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.71b	4.23b	3.83b	3.51b	3.27b	3.04b	2.82b	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.72b	5.01b	4.45b	3.99b	3.64b	3.33b	3.07b	2.84b	1.68a
0.00	9.20b	8.97b	7.86b	6.74b	5.80b	5.08b	4.51b	4.05b	3.69b	3.38b	3.10b	2.83b	-
-1.00	10.00c	10.00c	8.16b	6.85b	5.89b	5.16b	4.63b	4.18b	3.77b	3.41b	3.07b	2.18a	-
-2.00	10.00c	10.00c	8.42b	7.12b	6.17b	5.38b	4.73b	4.20k	3.74b	3.26b	2.63b	-	-
-3.00	10.00c	10.00c	8.56b	7.18b	6.15b	5.33b	4.59a	3.91b	3.20b	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.62b	5.41b	4.34b	3.39b	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BU (Minimum Loads)	HITCH	RAIL	+/- 20° - +/- 30° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.32	1.23	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.28	1.19	-
2.00	3.60k	3.02k	3.04k	3.12k	2.80	2.40	2.11	1.76a	1.62a	1.42a	1.28	1.16	1.08
1.00	3.55k	3.05k	3.05k	3.07k	2.62	2.28	2.00	1.76	1.57	1.40	1.26	1.15	1.07
0.00	3.17a	3.44k	2.99k	3.00	2.53	2.18	1.92	1.69	1.51	1.36	1.24	1.14	-
-1.00	3.05a	3.61a	3.17k	2.94	2.48	2.14	1.88	1.66	1.49	1.35	1.24	1.15	-
-2.00	3.87k	3.31k	3.09k	2.94	2.48	2.14	1.87	1.66	1.50	1.36	1.27	-	-
-3.00	3.17k	3.17k	3.13k	2.98	2.51	2.17	1.90	1.70	1.54	1.42	-	-	-
-4.00	3.20k	3.12k	3.31k	3.07	2.59	2.24	1.98	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BU (Maximum Loads)	HITCH	RAIL	+/- 20° - +/- 30° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.00	3.41	2.98a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.39	2.96	2.63	2.25	1.90	-	-	-	-
6.00	-	-	-	-	3.34b	2.96	2.62	2.29	1.98	1.70	-	-	-
5.00	-	-	-	3.58a	3.40	2.97a	2.60	2.28	2.00	1.74	1.49	-	-
4.00	-	5.05k	4.56b	3.98	3.39	2.94	2.55	2.24	1.98	1.75	1.51	1.30	-
3.00	7.35b	5.98	4.73	3.95	3.33	2.86	2.50	2.20	1.97	1.73	1.49	1.29	-
2.00	7.62	5.74b	4.62	3.82b	3.25	2.80	2.46	2.18	1.95	1.70	1.47	1.27	1.10
1.00	7.60	5.77	4.58	3.78	3.22	2.78	2.44	2.15	1.90	1.65	1.42	1.24	1.08
0.00	7.50	5.62r	4.48	3.71	3.14	2.71r	2.36	2.07	1.83	1.58	1.37	1.20	-
-1.00	7.24	5.42	4.32	3.57	3.02	2.60	2.27	2.00	1.75	1.51	1.32	1.17	-
-2.00	7.19	5.34	4.22	3.48	2.94	2.54	2.23	1.92	1.66	1.46	1.28	-	-
-3.00	7.34	5.45	4.30	3.51	2.95	2.49	2.13	1.85	1.62	1.42	-	-	-
-4.00	7.47	5.46	4.27	3.45	2.88	2.44	2.10	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CU (Minimum Loads)	HITCH	RAIL	+/- 30° - +/- 40° Over Osc End		67%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.38	2.65	1.98a	1.90	1.67	-	-	-	-	-	-
7.00	-	-	-	-	2.32	1.77k	1.49	1.31	1.19	-	-	-	-
6.00	-	-	-	-	2.37	1.95	1.58	1.28	1.08	0.99	-	-	-
5.00	-	-	-	2.84	2.32	1.91	1.58	1.33	1.08	0.89	0.84	-	-
4.00	-	4.33	3.35	2.66	2.16	1.82	1.51	1.28	1.08	0.91	0.76	0.71	-
3.00	3.08k	3.18k	2.92	2.38	1.98	1.67	1.42	1.21	1.04	0.89	0.72	0.67	-
2.00	3.60k	3.02k	2.54	2.08	1.76	1.49	1.30	1.11	0.98	0.85	0.72	0.64	0.59
1.00	3.55k	2.91	2.30	1.89	1.58	1.37	1.19	1.03	0.91	0.80	0.70	0.63	0.57
0.00	3.17a	2.76	2.17	1.79	1.49	1.27	1.11	0.97	0.85	0.75	0.68	0.62	-
-1.00	3.05a	2.73	2.13	1.73	1.45	1.23	1.07	0.93	0.83	0.74	0.68	0.63	-
-2.00	3.80	2.76	2.14	1.73	1.44	1.23	1.06	0.94	0.83	0.76	0.70	-	-
-3.00	3.17k	2.84	2.19	1.77	1.48	1.26	1.09	0.97	0.87	0.81	-	-	-
-4.00	3.20k	2.99	2.30	1.86	1.55	1.33	1.17	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CU (Maximum Loads)	HITCH	RAIL	+/- 30° - +/- 40° Over Osc End		67%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.38	2.87	2.45	2.10	1.71	-	-	-	-	-	-
7.00	-	-	-	-	2.43	2.13	1.83	1.53	1.25	-	-	-	-
6.00	-	-	-	-	2.44	2.12	1.83	1.57	1.33	1.10	-	-	-
5.00	-	-	-	2.89	2.44	2.11	1.80	1.55	1.35	1.14	0.93	-	-
4.00	-	4.33	3.44	2.88a	2.42	2.05	1.76	1.53	1.34	1.14	0.94	0.78	-
3.00	5.68	4.31	3.40	2.77	2.32	1.97	1.71	1.49	1.32	1.13	0.94	0.77	-
2.00	5.44	4.10	3.24	2.66	2.24	1.92	1.67	1.47	1.30	1.10	0.91	0.75	0.61
1.00	5.47	4.06	3.20	2.63	2.21	1.90	1.66	1.43	1.24	1.05	0.86	0.72	0.58
0.00	5.17	3.89	3.09	2.53	2.12	1.81	1.56	1.35	1.17	0.98	0.81	0.68	-
-1.00	4.83	3.61	2.86	2.36	1.98	1.69	1.46	1.27	1.08	0.91	0.76	0.64	-
-2.00	4.78	3.53	2.77	2.26	1.90	1.63	1.42	1.19	1.00	0.85	0.72	-	-
-3.00	4.93	3.64	2.85	2.30	1.91	1.58	1.32	1.12	0.96	0.81	-	-	-
-4.00	5.06	3.64	2.81	2.24	1.84	1.53	1.29	-	-	-	-	-	-

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





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DU (Minimum Loads)	HITCH	RAIL	+/- 40° - +/- 50° Over Osc End		67%	

	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
9.00	-	-	2.93	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.80	2.20	1.85	1.59	1.41	-	-	-	-	-	-
7.00	-	-	-	-	1.95	1.53	1.24	1.09	0.99	-	-	-	-
6.00	-	-	-	-	2.00	1.65	1.32	1.06	0.88	0.81	-	-	-
5.00	-	-	-	2.38	1.95	1.61	1.33	1.10	0.89	0.72	0.68	-	-
4.00	-	3.53	2.77	2.21	1.80	1.52	1.26	1.06	0.89	0.73	0.61	0.54	-
3.00	3.08k	2.92	2.37	1.95	1.63	1.37	1.17	1.00	0.84	0.71	0.55	0.48	-
2.00	3.60k	2.57	2.02	1.67	1.42	1.21	1.05	0.90	0.78	0.67	0.54	0.44	0.40
1.00	3.14	2.24	1.80	1.49	1.25	1.09	0.95	0.82	0.72	0.63	0.51	0.43	0.38
0.00	2.83	2.10	1.68	1.39	1.17	1.00	0.87	0.76	0.66	0.57	0.48	0.42	-
-1.00	2.78	2.08	1.64	1.34	1.12	0.96	0.83	0.72	0.64	0.55	0.48	0.43	-
-2.00	2.83	2.10	1.65	1.34	1.12	0.96	0.83	0.73	0.65	0.58	0.52	-	-
-3.00	2.93	2.17	1.70	1.38	1.15	0.98	0.86	0.76	0.68	0.64	-	-	-
-4.00	3.14	2.31	1.80	1.47	1.23	1.06	0.93	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DU (Maximum Loads)	HITCH	RAIL	+/- 40° - +/- 50° Over Osc End		67%	

	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
9.00	-	-	2.93	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.80	2.41	2.11	1.79	1.45	-	-	-	-	-	-
7.00	-	-	-	-	2.06	1.82	1.56	1.30	1.05	-	-	-	-
6.00	-	-	-	-	2.06	1.80	1.56	1.34	1.12	0.91	-	-	-
5.00	-	-	-	2.43	2.06	1.79	1.53	1.32	1.14	0.95	0.77	-	-
4.00	-	3.53	2.85	2.44	2.04	1.74	1.49	1.29	1.13	0.96	0.78	0.63	-
3.00	4.49	3.52	2.82	2.32	1.95	1.66	1.44	1.26	1.12	0.95	0.78	0.62	-
2.00	4.27	3.32	2.67	2.21	1.87	1.61	1.41	1.24	1.10	0.92	0.75	0.61	0.42
1.00	4.30	3.29	2.63	2.18	1.85	1.60	1.39	1.21	1.04	0.87	0.70	0.55	0.39
0.00	4.04	3.13	2.53	2.10	1.77	1.51	1.30	1.12	0.97	0.80	0.65	0.50	-
-1.00	3.74	2.88	2.32	1.93	1.63	1.40	1.21	1.05	0.89	0.73	0.60	0.45	-
-2.00	3.70	2.80	2.23	1.84	1.56	1.34	1.17	0.97	0.81	0.68	0.55	-	-
-3.00	3.83	2.90	2.30	1.87	1.56	1.29	1.08	0.91	0.77	0.64	-	-	-
-4.00	3.95	2.91	2.27	1.82	1.50	1.24	1.04	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU (Minimum Loads)	HITCH	RAIL	+/- 50° - +/- 120°		67%	

	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
9.00	-	-	2.66	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.52	1.93	1.59	1.36	1.19	-	-	-	-	-	-
7.00	-	-	-	-	1.70	1.29	1.01	0.88	0.79	-	-	-	-
6.00	-	-	-	-	1.75	1.41	1.09	0.85	0.69	0.62	-	-	-
5.00	-	-	-	2.12	1.70	1.37	1.10	0.89	0.69	0.49	0.46	-	-
4.00	-	3.25	2.48	1.93	1.54	1.28	1.03	0.85	0.69	0.51	0.34	0.29	-
3.00	3.08k	2.57	2.06	1.66	1.36	1.13	0.94	0.78	0.64	0.48	0.28	0.23	-
2.00	3.28	2.19	1.68	1.35	1.14	0.95	0.81	0.68	0.57	0.42	0.28	0.19	0.16
1.00	2.71	1.83	1.43	1.17	0.96	0.82	0.70	0.59	0.46	0.35	0.24	0.18	0.14
0.00	2.36	1.68	1.30	1.06	0.87	0.73	0.63	0.49	0.38	0.28	0.21	0.17	-
-1.00	2.31	1.65	1.26	1.01	0.83	0.69	0.58	0.45	0.34	0.26	0.21	0.18	-
-2.00	2.37	1.68	1.27	1.01	0.82	0.69	0.57	0.45	0.36	0.29	0.25	-	-
-3.00	2.48	1.76	1.32	1.05	0.86	0.72	0.61	0.50	0.41	0.38	-	-	-
-4.00	2.72	1.90	1.43	1.14	0.94	0.79	0.69	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU (Maximum Loads)	HITCH	RAIL	+/- 50° - +/- 120°		67%	

	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
9.00	-	-	2.66	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.52	2.14	1.87	1.56	1.23	-	-	-	-	-	-
7.00	-	-	-	-	1.81	1.59	1.34	1.10	0.85	-	-	-	-
6.00	-	-	-	-	1.82	1.58	1.34	1.13	0.93	0.73	-	-	-
5.00	-	-	-	2.17	1.82	1.56	1.32	1.12	0.95	0.77	0.59	-	-
4.00	-	3.25	2.57	2.18	1.80	1.50	1.27	1.09	0.94	0.78	0.61	0.39	-
3.00	4.24	3.23	2.54	2.05	1.70	1.43	1.22	1.06	0.93	0.77	0.60	0.39	-
2.00	4.00	3.02	2.38	1.94	1.62	1.38	1.19	1.04	0.91	0.74	0.56	0.36	0.18
1.00	4.03	2.98	2.34	1.90	1.59	1.36	1.17	1.00	0.84	0.69	0.49	0.30	0.15
0.00	3.74	2.81	2.22	1.81	1.50	1.27	1.07	0.91	0.77	0.62	0.41	0.25	-
-1.00	3.39	2.53	2.00	1.63	1.36	1.15	0.98	0.84	0.69	0.51	0.34	0.20	-
-2.00	3.35	2.45	1.90	1.54	1.28	1.09	0.93	0.76	0.60	0.43	0.28	-	-
-3.00	3.50	2.56	1.98	1.58	1.29	1.03	0.84	0.69	0.54	0.38	-	-	-
-4.00	3.63	2.56	1.95	1.52	1.22	0.99	0.81	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU (Minimum Loads)	HITCH	RAIL	+/- 120° - +/- 140° Over Fixed End		67%	

	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
9.00	-	-	3.00	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.85	2.18	1.80	1.53	1.35	-	-	-	-	-	-
7.00	-	-	-	-	1.91	1.46	1.16	1.01	0.91	-	-	-	-
6.00	-	-	-	-	1.96	1.59	1.24	0.98	0.80	0.73	-	-	-
5.00	-	-	-	2.38	1.91	1.55	1.25	1.03	0.81	0.64	0.60	-	-
4.00	-	3.71	2.82	2.19	1.75	1.45	1.18	0.98	0.80	0.65	0.48	0.42	-
3.00	3.08k	3.00	2.37	1.91	1.56	1.30	1.09	0.91	0.76	0.63	0.42	0.36	-
2.00	3.60k	2.60	1.98	1.59	1.34	1.12	0.96	0.81	0.69	0.58	0.42	0.32	0.28
1.00	3.30	2.22	1.72	1.40	1.16	0.99	0.85	0.73	0.63	0.50	0.38	0.31	0.26
0.00	2.92	2.06	1.59	1.29	1.06	0.89	0.77	0.66	0.55	0.43	0.35	0.30	-
-1.00	2.87	2.03	1.55	1.24	1.01	0.85	0.73	0.62	0.51	0.42	0.35	0.31	-
-2.00	2.93	2.06	1.56	1.23	1.01	0.85	0.72	0.63	0.52	0.44	0.39	-	-
-3.00	3.05	2.14	1.61	1.28	1.04	0.88	0.75	0.66	0.58	0.53	-	-	-
-4.00	3.20k	2.30	1.72	1.37	1.13	0.95	0.83	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU (Maximum Loads)	HITCH	RAIL	+/- 120° - +/- 140° Over Fixed End		67%	

	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
9.00	-	-	3.00	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.85	2.41	2.09	1.74	1.38	-	-	-	-	-	-
7.00	-	-	-	-	2.03	1.77	1.50	1.23	0.97	-	-	-	-
6.00	-	-	-	-	2.03	1.76	1.50	1.27	1.05	0.84	-	-	-
5.00	-	-	-	2.43	2.03	1.75	1.48	1.26	1.07	0.88	0.70	-	-
4.00	-	3.71	2.91	2.45	2.01	1.69	1.43	1.23	1.06	0.88	0.71	0.52	-
3.00	4.94	3.69	2.87	2.31	1.91	1.61	1.38	1.19	1.05	0.88	0.70	0.52	-
2.00	4.68	3.47	2.71	2.20	1.83	1.55	1.34	1.17	1.03	0.84	0.67	0.49	0.30
1.00	4.71	3.43	2.67	2.16	1.80	1.54	1.33	1.13	0.96	0.79	0.62	0.43	0.27
0.00	4.39	3.25	2.54	2.07	1.71	1.44	1.22	1.04	0.89	0.72	0.55	0.38	-
-1.00	4.02	2.95	2.31	1.88	1.57	1.32	1.13	0.97	0.80	0.65	0.48	0.33	-
-2.00	3.98	2.87	2.21	1.79	1.48	1.26	1.08	0.89	0.72	0.58	0.42	-	-
-3.00	4.14	2.98	2.29	1.82	1.49	1.20	0.99	0.82	0.68	0.53	-	-	-
-4.00	4.28	2.99	2.26	1.76	1.42	1.16	0.95	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GU (Minimum Loads)	HITCH	RAIL	+/- 140° - +/- 150° Over Fixed End		67%	

	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
9.00	-	-	3.24	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.09	2.38	1.97	1.68	1.48	-	-	-	-	-	-
7.00	-	-	-	-	2.08	1.61	1.29	1.13	1.02	-	-	-	-
6.00	-	-	-	-	2.13	1.74	1.38	1.10	0.91	0.83	-	-	-
5.00	-	-	-	2.58	2.08	1.70	1.39	1.14	0.91	0.73	0.70	-	-
4.00	-	4.01	3.06	2.39	1.92	1.60	1.31	1.10	0.91	0.75	0.61	0.54	-
3.00	3.08k	3.18k	2.61	2.11	1.73	1.45	1.22	1.03	0.87	0.73	0.55	0.49	-
2.00	3.60k	2.90	2.22	1.79	1.51	1.27	1.09	0.92	0.80	0.69	0.55	0.45	0.40
1.00	3.55k	2.52	1.97	1.60	1.33	1.14	0.98	0.84	0.73	0.63	0.51	0.43	0.38
0.00	3.17a	2.36	1.83	1.49	1.23	1.04	0.90	0.78	0.68	0.58	0.48	0.42	-
-1.00	3.05a	2.33	1.79	1.44	1.18	1.00	0.86	0.74	0.65	0.56	0.48	0.44	-
-2.00	3.34	2.36	1.80	1.43	1.18	1.00	0.85	0.74	0.66	0.59	0.53	-	-
-3.00	3.17k	2.44	1.85	1.48	1.21	1.03	0.88	0.78	0.70	0.65	-	-	-
-4.00	3.20k	2.60	1.97	1.57	1.30	1.10	0.97	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GU (Maximum Loads)	HITCH	RAIL	+/- 140° - +/- 150° Over Fixed End		67%	

	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
9.00	-	-	3.24	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.09	2.61	2.26	1.89	1.51	-	-	-	-	-	-
7.00	-	-	-	-	2.20	1.92	1.63	1.35	1.08	-	-	-	-
6.00	-	-	-	-	2.20	1.91	1.63	1.39	1.16	0.94	-	-	-
5.00	-	-	-	2.63	2.20	1.90	1.61	1.37	1.18	0.98	0.79	-	-
4.00	-	4.01	3.15	2.65	2.19	1.83	1.56	1.35	1.17	0.98	0.80	0.64	-
3.00	5.35	4.00	3.11	2.51	2.08	1.76	1.51	1.31	1.15	0.98	0.79	0.63	-
2.00	5.09	3.77	2.95	2.40	2.00	1.70	1.47	1.29	1.13	0.94	0.76	0.61	0.42
1.00	5.12	3.73	2.91	2.36	1.97	1.69	1.46	1.25	1.07	0.89	0.72	0.56	0.39
0.00	4.81	3.55	2.79	2.27	1.88	1.59	1.36	1.16	1.00	0.82	0.66	0.50	-
-1.00	4.43	3.26	2.55	2.08	1.74	1.47	1.26	1.09	0.91	0.75	0.61	0.45	-
-2.00	4.39	3.17	2.46	1.99	1.65	1.41	1.21	1.01	0.83	0.69	0.56	-	-
-3.00	4.55	3.29	2.54	2.02	1.66	1.35	1.12	0.93	0.79	0.65	-	-	-
-4.00	4.69	3.29	2.50	1.96	1.59	1.30	1.08	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HU (Minimum Loads)	HITCH	RAIL	+/- 150° - +/- 160° Over Fixed End		67%	

	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
9.00	-	-	3.49	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.35	2.62	1.98a	1.88	1.65	-	-	-	-	-	-
7.00	-	-	-	-	2.29	1.77k	1.48	1.29	1.17	-	-	-	-
6.00	-	-	-	-	2.34	1.93	1.56	1.26	1.06	0.97	-	-	-
5.00	-	-	-	2.81	2.29	1.89	1.56	1.31	1.07	0.88	0.83	-	-
4.00	-	4.28	3.31	2.63	2.14	1.80	1.50	1.26	1.07	0.89	0.75	0.69	-
3.00	3.08k	3.18k	2.89	2.35	1.95	1.65	1.40	1.20	1.02	0.87	0.71	0.65	-
2.00	3.60k	3.02k	2.51	2.05	1.74	1.47	1.28	1.09	0.96	0.83	0.71	0.63	0.57
1.00	3.55k	2.87	2.26	1.86	1.56	1.34	1.17	1.02	0.89	0.78	0.68	0.62	0.56
0.00	3.17a	2.71	2.14	1.76	1.47	1.25	1.09	0.95	0.84	0.74	0.66	0.61	-
-1.00	3.05a	2.69	2.10	1.70	1.42	1.21	1.05	0.92	0.81	0.73	0.66	0.62	-
-2.00	3.74	2.71	2.10	1.70	1.42	1.21	1.04	0.92	0.82	0.74	0.69	-	-
-3.00	3.17k	2.79	2.16	1.74	1.45	1.24	1.07	0.95	0.86	0.80	-	-	-
-4.00	3.20k	2.94	2.26	1.83	1.53	1.31	1.15	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HU (Maximum Loads)	HITCH	RAIL	+/- 150° - +/- 160° Over Fixed End		67%	

	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
9.00	-	-	3.49	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.35	2.84	2.42	2.08	1.69	-	-	-	-	-	-
7.00	-	-	-	-	2.40	2.11	1.81	1.51	1.23	-	-	-	-
6.00	-	-	-	-	2.41	2.10	1.81	1.55	1.31	1.08	-	-	-
5.00	-	-	-	2.86	2.41	2.08	1.78	1.54	1.33	1.12	0.92	-	-
4.00	-	4.28	3.40	2.86	2.39	2.02	1.74	1.51	1.32	1.12	0.93	0.76	-
3.00	5.62	4.27	3.37	2.74	2.29	1.95	1.69	1.47	1.30	1.12	0.93	0.76	-
2.00	5.38	4.06	3.21	2.63	2.21	1.90	1.65	1.46	1.28	1.08	0.90	0.74	0.60
1.00	5.41	4.02	3.17	2.60	2.19	1.88	1.64	1.42	1.22	1.03	0.85	0.70	0.57
0.00	5.11	3.85	3.05	2.51	2.10	1.79	1.54	1.33	1.15	0.96	0.80	0.67	-
-1.00	4.77	3.57	2.83	2.33	1.96	1.67	1.44	1.26	1.07	0.89	0.75	0.63	-
-2.00	4.73	3.49	2.73	2.23	1.88	1.61	1.40	1.17	0.98	0.83	0.71	-	-
-3.00	4.88	3.60	2.81	2.27	1.88	1.55	1.30	1.10	0.94	0.80	-	-	-
-4.00	5.00	3.60	2.78	2.21	1.82	1.51	1.27	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2IU (Minimum Loads)	HITCH	RAIL	+/- 160° - +/- 180° Over Fixed End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.92	3.10	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	2.70	1.77k	1.65a	1.50a	1.43	-	-	-	-
6.00	-	-	-	-	2.75	2.29	1.83a	1.48a	1.33	1.21	-	-	-
5.00	-	-	-	3.22a	2.70	2.25	1.89	1.54a	1.33a	1.12	1.05	-	-
4.00	-	5.00	3.89	2.78a	2.55	2.16	1.82	1.55	1.33	1.13	0.97	0.90	-
3.00	3.08k	3.18k	3.46	2.83	2.36	2.01	1.72	1.49	1.28	1.11	0.93	0.86	-
2.00	3.60k	3.02k	3.04k	2.53	2.15	1.83	1.60	1.38	1.22	1.07	0.93	0.84	0.78
1.00	3.55k	3.05k	2.84	2.34	1.97	1.70	1.49	1.30	1.15	1.02	0.90	0.82	0.77
0.00	3.17a	3.43	2.71	2.24	1.88	1.61	1.41	1.24	1.10	0.98	0.88	0.82	-
-1.00	3.05a	3.40	2.67	2.18	1.83	1.57	1.37	1.20	1.07	0.97	0.88	0.83	-
-2.00	3.87k	3.31k	2.68	2.18	1.83	1.57	1.36	1.21	1.08	0.98	0.91	-	-
-3.00	3.17k	3.17k	2.73	2.22	1.86	1.60	1.39	1.24	1.12	1.04	-	-	-
-4.00	3.20k	3.12k	2.84	2.31	1.94	1.67	1.47	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2IU (Maximum Loads)	HITCH	RAIL	+/- 160° - +/- 180° Over Fixed End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	3.92	3.32	2.84	2.43	2.01	-	-	-	-	-	-
7.00	-	-	-	-	2.82	2.47	2.13	1.80	1.50	-	-	-	-
6.00	-	-	-	-	2.82	2.46	2.13	1.84	1.57	1.32	-	-	-
5.00	-	-	-	3.32	2.82	2.44	2.10	1.82	1.59	1.36	1.14	-	-
4.00	-	5.00	3.98	3.30	2.80	2.39	2.06	1.80	1.58	1.36	1.15	0.97	-
3.00	6.58	4.99	3.94	3.22	2.70	2.31	2.01	1.76	1.57	1.36	1.15	0.96	-
2.00	6.33	4.78	3.78	3.11	2.62	2.26	1.97	1.74	1.55	1.32	1.12	0.95	0.79
1.00	6.32	4.73	3.74	3.08	2.60	2.24	1.96	1.71	1.48	1.27	1.07	0.91	0.77
0.00	6.07	4.56	3.63	2.98	2.51	2.15	1.86	1.62	1.42	1.20	1.02	0.87	-
-1.00	5.72	4.28	3.40	2.81	2.37	2.03	1.76	1.55	1.33	1.13	0.97	0.84	-
-2.00	5.68	4.20	3.31	2.71	2.29	1.97	1.72	1.46	1.25	1.08	0.93	-	-
-3.00	5.83	4.31	3.39	2.75	2.29	1.91	1.62	1.39	1.21	1.04	-	-	-
-4.00	5.96	4.32	3.35	2.69	2.23	1.87	1.59	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AL (Minimum Loads)	HITCH	RAIL	+/- 20° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AL (Maximum Loads)	HITCH	RAIL	+/- 20° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	3.00b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.19b	3.07b	2.90b	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.59b	3.34b	3.16b	3.01b	2.74r	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.71b	4.23b	3.83b	3.51b	3.27b	3.04b	2.82b	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.72b	5.01b	4.45b	3.99b	3.64b	3.33b	3.07b	2.84b	1.68a
0.00	9.20b	8.97b	7.86b	6.74b	5.80b	5.08b	4.51b	4.05b	3.69b	3.38b	3.10b	2.83b	-
-1.00	10.00c	10.00c	8.16b	6.85b	5.89b	5.16b	4.63b	4.18b	3.77b	3.41b	3.07b	2.18a	-
-2.00	10.00c	10.00c	8.42b	7.12b	6.17b	5.38b	4.73b	4.20k	3.74b	3.26b	2.63b	-	-
-3.00	10.00c	10.00c	8.56b	7.18b	6.15b	5.33b	4.59a	3.91b	3.20b	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.62b	5.41b	4.34b	3.39b	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL (Minimum Loads)	HITCH	RAIL	+/- 20° - +/- 30° Over Osc End		75%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL (Maximum Loads)	HITCH	RAIL	+/- 20° - +/- 30° Over Osc End		75%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	3.00b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.19b	3.07b	2.90b	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.59b	3.34b	3.16b	3.01b	2.74r	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.71b	4.23b	3.83b	3.51b	3.27b	3.04b	2.82b	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.72b	5.01b	4.45b	3.99b	3.64b	3.33b	3.07b	2.84b	1.68a
0.00	9.20b	8.97b	7.86b	6.74b	5.80b	5.08b	4.51b	4.05b	3.69b	3.38b	3.10b	2.83b	-
-1.00	10.00c	10.00c	8.16b	6.85b	5.89b	5.16b	4.63b	4.18b	3.77b	3.41b	3.07b	2.18a	-
-2.00	10.00c	10.00c	8.42b	7.12b	6.17b	5.38b	4.73b	4.20k	3.74b	3.26b	2.63b	-	-
-3.00	10.00c	10.00c	8.56b	7.18b	6.15b	5.33b	4.59a	3.91b	3.20b	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.62b	5.41b	4.34b	3.39b	-	-	-	-	-	-

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





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CL (Minimum Loads)	HITCH	RAIL	+/- 30° - +/- 40° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CL (Maximum Loads)	HITCH	RAIL	+/- 30° - +/- 40° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	2.87b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.18	2.88b	2.63	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.55	3.19	2.88	2.61	2.31	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.60	4.01	3.55	3.17	2.85	2.59	2.29	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.36b	4.58	3.99	3.53	3.18	2.87	2.55	2.25	1.68a
0.00	9.20b	8.97b	7.86b	6.46	5.41b	4.62	4.04	3.57	3.18	2.82	2.49	2.21	-
-1.00	10.00c	10.00c	8.14b	6.61	5.49	4.66	4.04	3.55	3.12	2.75	2.43	2.17	-
-2.00	10.00c	10.00c	8.41	6.70	5.53	4.68	4.03	3.48	3.04	2.69	2.40	-	-
-3.00	10.00c	10.00c	8.51	6.72	5.50	4.61	3.93	3.41	2.99	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.58	5.36	4.34b	3.39b	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DL (Minimum Loads)	HITCH	RAIL	+/- 40° - +/- 50° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.40
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.77	2.14a	1.87a	1.84	1.65a	1.53	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.09	1.86	1.70	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.34	2.80b	2.43	2.14	1.94	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DL (Maximum Loads)	HITCH	RAIL	+/- 40° - +/- 50° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.02	2.71	2.30	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.03	2.70	2.36	2.00	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.48	3.05	2.67	2.33	2.01	1.72	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.06b	3.49	3.00	2.62	2.31b	2.00	1.71	-
2.00	7.97k	7.80a	6.74b	5.67b	4.83	4.00	3.41	2.95	2.59	2.30	1.95	1.67	1.43
1.00	8.13a	7.99b	7.41a	5.96b	4.78	3.96	3.39	2.94	2.58	2.23	1.90a	1.63	1.41
0.00	9.20b	8.97b	7.86b	6.03	4.83	3.98	3.38	2.90	2.52	2.15	1.83	1.58	-
-1.00	10.00c	10.00c	8.06b	6.12	4.80	3.94	3.32r	2.85	2.41	2.06	1.77	1.54	-
-2.00	10.00c	10.00c	8.39b	6.12	4.79	3.91	3.27	2.73	2.31	1.99	1.73	-	-
-3.00	10.00c	10.00c	8.51	6.16	4.76	3.82	3.15	2.65	2.26	1.94	-	-	-
-4.00	10.00c	10.00c	8.06b	6.02	4.65	3.75	3.09	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL (Minimum Loads)	HITCH	RAIL	+/- 50° - +/- 120°		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.19	1.07	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.12	1.00	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.37	1.12	0.96	0.87
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.80	1.52	1.28	1.08	0.94	0.85
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.42	2.02	1.68	1.42	1.21	1.05	0.93	-
-1.00	3.05a	3.61a	3.17k	3.09k	2.89	2.34	1.94	1.62	1.38	1.19	1.05	0.95	-
-2.00	3.87k	3.31k	3.09k	3.08k	2.88	2.34	1.93	1.63	1.40	1.22	1.09	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	2.94	2.39	1.99	1.69	1.46	1.32	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.08	2.54	2.13	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL (Maximum Loads)	HITCH	RAIL	+/- 50° - +/- 120°		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.01	2.64	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.01	2.68	2.24	1.79	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.03	2.66	2.25	1.86	1.48	-	-
4.00	-	5.05k	4.56b	4.64b	4.14	3.51	3.03	2.59	2.21	1.88	1.50	1.19	-
3.00	7.35b	6.79b	5.68b	4.90b	4.14	3.44	2.93	2.51	2.17	1.84	1.47	1.18	-
2.00	7.97k	7.80a	6.19	4.90b	3.98	3.33b	2.85	2.46	2.15	1.79	1.44	1.15	0.89
1.00	8.13a	7.99b	6.23	4.87b	3.94	3.31b	2.84	2.45	2.07	1.71	1.36	1.09	0.85
0.00	9.20b	8.73	6.26	4.83	3.91	3.26	2.76	2.34r	1.98	1.60	1.27	1.02	-
-1.00	10.00c	8.82	6.18	4.73	3.80	3.16	2.66	2.23	1.83	1.47	1.19	0.97	-
-2.00	10.00c	8.71	6.05	4.60	3.68	3.05	2.57	2.08	1.68	1.38	1.13	-	-
-3.00	10.00c	8.95	6.20	4.66	3.69	2.96	2.40	1.96	1.61	1.32	-	-	-
-4.00	10.00c	8.88	6.13	4.55	3.58	2.88	2.34	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL (Minimum Loads)	HITCH	RAIL	+/- 120° - +/- 140° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.36	1.22	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.29	1.16	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.29	1.11	1.01
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.47	1.25	1.10	0.99
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.28	1.91	1.63	1.39	1.21	1.09	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	2.64	2.20	1.85	1.58	1.37	1.21	1.10	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	2.64	2.19	1.85	1.60	1.40	1.26	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.26	2.69	2.24	1.91	1.66	1.50	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.39	2.82	2.39	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL (Maximum Loads)	HITCH	RAIL	+/- 120° - +/- 140° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.16b	2.80	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.15b	2.79	2.43	1.97	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.17b	2.80	2.42	2.04	1.65	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.69b	3.19b	2.76	2.38	2.04	1.67	1.34	-
3.00	7.35b	6.79b	5.68b	5.01k	4.34	3.66b	3.11b	2.69	2.33	2.02	1.64	1.33	-
2.00	7.97k	7.80a	6.53b	5.18b	4.22	3.56b	3.05b	2.63	2.31	1.96	1.61	1.30	1.03
1.00	8.13a	7.99b	6.57b	5.14b	4.18	3.54	3.03b	2.63	2.26	1.88	1.53	1.24	1.00
0.00	9.20b	8.97b	6.69r	5.15r	4.17	3.49r	2.97	2.55	2.17	1.77	1.44	1.18	-
-1.00	10.00c	9.49	6.66	5.09	4.09	3.40r	2.89	2.46	2.02	1.66	1.36	1.12	-
-2.00	10.00c	9.42	6.55	4.99	4.00	3.32	2.81	2.30	1.89	1.56	1.30	-	-
-3.00	10.00c	9.62	6.71	5.05	4.00	3.23	2.66	2.19	1.81	1.50	-	-	-
-4.00	10.00c	9.59	6.62	4.93	3.90	3.15	2.60	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GL (Minimum Loads)	HITCH	RAIL	+/- 140° - +/- 150° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.27	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.23	1.11
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.37	1.21	1.09
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.08	1.77a	1.53	1.34	1.20	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	2.84	2.39	2.02	1.73	1.51	1.34	1.22	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	2.84	2.38	2.02	1.75	1.54	1.39	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	2.89	2.43	2.08	1.81	1.64	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.02	2.58	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GL (Maximum Loads)	HITCH	RAIL	+/- 140° - +/- 150° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.26	2.91	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	2.89	2.57b	2.11	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.26	2.89	2.55b	2.16	1.76	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.30	2.89	2.50	2.16b	1.78	1.45	-
3.00	7.35b	6.79b	5.68b	5.01k	4.53	3.81	3.26	2.82	2.46	2.15b	1.76	1.44	-
2.00	7.97k	7.80a	6.72	5.40	4.42	3.70	3.17	2.77	2.43	2.09	1.73	1.41	1.14
1.00	8.13a	7.99b	6.83b	5.36	4.38	3.67	3.16	2.77	2.39	2.01	1.65	1.35	1.10
0.00	9.20b	8.97b	6.95	5.40	4.37	3.66	3.12	2.69	2.32	1.90	1.57	1.29	-
-1.00	10.00c	9.74	7.01r	5.34	4.30	3.58r	3.05	2.62	2.17	1.79	1.48	1.23	-
-2.00	10.00c	9.94	6.92	5.27	4.23	3.52	2.98	2.46	2.04	1.70	1.42	-	-
-3.00	10.00c	10.00c	7.08	5.34	4.22	3.42	2.84	2.35	1.96	1.64	-	-	-
-4.00	10.00c	9.99b	6.95	5.21	4.13	3.35	2.78	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HL (Minimum Loads)	HITCH	RAIL	+/- 150° - +/- 160° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.81	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.21	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HL (Maximum Loads)	HITCH	RAIL	+/- 150° - +/- 160° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.06b	2.79b	2.44a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.07b	2.79b	2.50	2.15	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.43b	3.08b	2.77	2.48	2.17	1.85	-
3.00	7.35b	6.79b	5.68b	5.01k	4.45	3.88b	3.43	3.04	2.72b	2.45	2.14	1.84	-
2.00	7.97k	7.41b	6.07	5.11	4.37	3.81	3.36	2.99	2.69b	2.45	2.11	1.81	1.56
1.00	8.13a	7.53b	6.09	5.08	4.34	3.78	3.34	2.99	2.70	2.38	2.05	1.77	1.53
0.00	9.20b	7.53	6.07r	5.07	4.34r	3.78r	3.33	2.96	2.65	2.29	1.98	1.72	-
-1.00	9.66	7.45	6.02	5.02	4.29	3.73	3.28	2.92	2.55	2.20	1.91	1.67	-
-2.00	9.61	7.36	5.93	4.95	4.23k	3.69	3.24	2.82	2.45	2.13	1.87	-	-
-3.00	9.76	7.49	6.03	5.00	4.23	3.61	3.13	2.73	2.39	2.07a	-	-	-
-4.00	9.93	7.49	5.98	4.91	4.15	3.56	3.08b	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2IL (Minimum Loads)	HITCH	RAIL	+/- 160° - +/- 180° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2IL (Maximum Loads)	HITCH	RAIL	+/- 160° - +/- 180° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25	2.97b	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	2.97b	2.72b	2.41	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.28	2.98b	2.71	2.44	2.13	-
3.00	7.35b	6.79b	5.68b	5.01k	4.65	4.10	3.64	3.29	2.96b	2.68	2.42	2.11	-
2.00	7.97k	7.46	6.23	5.31b	4.60	4.05	3.60	3.24	2.92b	2.66b	2.39	2.09	1.77a
1.00	8.13a	7.53b	6.25	5.28	4.57	4.02	3.59	3.24	2.93b	2.66a	2.33	2.04	1.68a
0.00	9.20b	7.60	6.27	5.30	4.60r	4.03	3.59	3.22	2.90	2.58	2.26	1.99	-
-1.00	9.43	7.53	6.23	5.27	4.56	4.00	3.55	3.19	2.83	2.49	2.19	1.95	-
-2.00	9.39	7.45	6.15	5.22	4.53	3.98	3.53	3.10	2.75	2.43	2.15	-	-
-3.00	9.51	7.57	6.24	5.26	4.52	3.91	3.42	3.03	2.70	2.07a	-	-	-
-4.00	9.66	7.57	6.19	5.19	4.42	3.86	3.36	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU (Minimum Loads)	HITCH	CANT	+/- 20° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.34	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.24
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.92	1.64a	1.48a	1.42	1.31	1.23
0.00	3.17a	3.44k	2.99k	3.08	2.66	2.33	2.08	1.86	1.68	1.53	1.40	1.31	-
-1.00	3.05a	3.61a	3.17k	3.03	2.62	2.30	2.05	1.83	1.66	1.52	1.40	1.31	-
-2.00	3.87k	3.31k	3.09k	3.03	2.62	2.30	2.04	1.84	1.67	1.53	1.43	-	-
-3.00	3.17k	3.17k	3.13k	3.06	2.64	2.32	2.07	1.87	1.70	1.59	-	-	-
-4.00	3.20k	3.12k	3.31k	3.14	2.71	2.39	2.14	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU (Maximum Loads)	HITCH	CANT	+/- 20° Over Osc End		67%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.93	3.43	3.01	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.41	3.03	2.73	2.36	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.03	2.72	2.40	2.11	1.84	-	-	-
5.00	-	-	-	3.58a	3.42	3.02	2.69b	2.38	2.12	1.88	1.64	-	-
4.00	-	5.05k	4.56b	3.92	3.41	3.01	2.64	2.35	2.11	1.89	1.65	1.45	-
3.00	6.90	5.54b	4.56	3.89	3.36	2.92	2.59	2.31	2.09	1.87	1.64	1.44	-
2.00	6.75	5.39	4.47	3.80	3.27b	2.87	2.55	2.29	2.08	1.84	1.62	1.42	1.25
1.00	6.73	5.36	4.43	3.77	3.25	2.86	2.54	2.27	2.03	1.79	1.58	1.39	1.23
0.00	6.57	5.24	4.34	3.69	3.19	2.80	2.48	2.21	1.97	1.73	1.53	1.36	-
-1.00	6.32	5.05	4.19	3.57	3.09	2.71	2.40	2.14	1.89	1.67	1.48	1.32	-
-2.00	6.29	4.99	4.11	3.49	3.02	2.65	2.36	2.07	1.82	1.62	1.45	-	-
-3.00	6.40	5.07	4.18	3.52	3.02	2.60	2.27	2.01	1.78	1.59	-	-	-
-4.00	6.50	5.08	4.15	3.46	2.97	2.56	2.24	-	-	-	-	-	-

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





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU (Minimum Loads)	HITCH	CANT	+/- 20° - +/- 30° Over Osc End		67%	

	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
9.00	-	-	3.09	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.97	2.40	1.98a	1.79	1.60	-	-	-	-	-	-
7.00	-	-	-	-	2.14	1.73	1.44	1.28	1.17	-	-	-	-
6.00	-	-	-	-	2.19	1.84	1.51	1.25	1.07	0.98	-	-	-
5.00	-	-	-	2.57	2.14	1.80	1.52	1.29	1.07	0.90	0.85	-	-
4.00	-	3.65	2.95	2.41	2.01	1.72	1.46	1.25	1.07	0.91	0.77	0.72	-
3.00	3.08k	3.11	2.59	2.17	1.85	1.58	1.37	1.19	1.03	0.89	0.74	0.68	-
2.00	3.60k	2.80	2.27	1.91	1.66	1.43	1.26	1.09	0.97	0.85	0.74	0.66	0.62
1.00	3.34	2.52	2.07	1.75	1.50	1.32	1.16	1.02	0.91	0.81	0.71	0.65	0.61
0.00	3.08	2.39	1.96	1.66	1.42	1.23	1.09	0.96	0.86	0.77	0.69	0.64	-
-1.00	3.04	2.37	1.93	1.62	1.38	1.20	1.05	0.93	0.83	0.75	0.69	0.65	-
-2.00	3.09	2.39	1.93	1.61	1.38	1.19	1.05	0.93	0.84	0.77	0.72	-	-
-3.00	3.17	2.45	1.98	1.65	1.41	1.22	1.08	0.96	0.88	0.82	-	-	-
-4.00	3.20k	2.57	2.07	1.73	1.48	1.29	1.15	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU (Maximum Loads)	HITCH	CANT	+/- 20° - +/- 30° Over Osc End		67%	

	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
9.00	-	-	3.09	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.97	2.59	2.27a	1.97	1.63	-	-	-	-	-	-
7.00	-	-	-	-	2.24	2.00	1.74	1.47	1.22	-	-	-	-
6.00	-	-	-	-	2.25	1.99	1.74	1.51	1.29	1.08	-	-	-
5.00	-	-	-	2.61	2.25	1.97	1.71	1.50	1.31	1.12	0.93	-	-
4.00	-	3.65	3.02	2.62	2.23	1.92	1.67	1.47	1.30	1.12	0.94	0.78	-
3.00	4.50	3.64	2.99	2.51	2.14	1.86	1.63	1.44	1.29	1.12	0.94	0.78	-
2.00	4.31	3.47	2.86	2.41	2.07	1.81	1.59	1.42	1.27	1.08	0.91	0.76	0.63
1.00	4.34	3.44	2.82	2.38	2.05	1.79	1.58	1.39	1.21	1.04	0.87	0.73	0.61
0.00	4.12	3.30	2.73	2.30	1.97	1.71	1.49	1.31	1.15	0.97	0.82	0.69	-
-1.00	3.85	3.07	2.54	2.15	1.85	1.61	1.41	1.24	1.07	0.91	0.77	0.66	-
-2.00	3.82	3.01	2.46	2.07	1.78	1.55	1.37	1.17	0.99	0.85	0.74	-	-
-3.00	3.94	3.10	2.53	2.10	1.78	1.50	1.28	1.10	0.96	0.82	-	-	-
-4.00	4.03	3.10	2.50	2.05	1.73	1.46	1.25	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU (Minimum Loads)	HITCH	CANT	+/- 30° - +/- 40° Over Osc End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.45	1.95	1.66	1.44	1.28	-	-	-	-	-	-
7.00	-	-	-	-	1.75	1.38	1.12	0.99	0.90	-	-	-	-
6.00	-	-	-	-	1.79	1.49	1.20	0.96	0.80	0.74	-	-	-
5.00	-	-	-	2.12	1.75	1.45	1.20	1.00	0.81	0.65	0.62	-	-
4.00	-	3.02	2.42	1.96	1.62	1.37	1.14	0.96	0.81	0.67	0.52	0.46	-
3.00	3.08k	2.48	2.07	1.72	1.45	1.24	1.06	0.90	0.77	0.65	0.46	0.41	-
2.00	2.99	2.17	1.75	1.46	1.26	1.08	0.94	0.81	0.71	0.61	0.46	0.37	0.33
1.00	2.56	1.89	1.55	1.30	1.11	0.97	0.85	0.74	0.65	0.54	0.43	0.36	0.31
0.00	2.30	1.76	1.44	1.21	1.03	0.88	0.78	0.68	0.59	0.48	0.40	0.35	-
-1.00	2.26	1.74	1.41	1.17	0.99	0.85	0.74	0.65	0.55	0.46	0.40	0.36	-
-2.00	2.30	1.76	1.41	1.17	0.98	0.85	0.74	0.65	0.57	0.49	0.44	-	-
-3.00	2.39	1.83	1.46	1.20	1.01	0.87	0.76	0.68	0.62	0.57	-	-	-
-4.00	2.57	1.95	1.55	1.28	1.08	0.94	0.83	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU (Maximum Loads)	HITCH	CANT	+/- 30° - +/- 40° Over Osc End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.45	2.14	1.90	1.62	1.32	-	-	-	-	-	-
7.00	-	-	-	-	1.85	1.65	1.42	1.19	0.96	-	-	-	-
6.00	-	-	-	-	1.85	1.64	1.42	1.22	1.03	0.84	-	-	-
5.00	-	-	-	2.16	1.85	1.63	1.40	1.21	1.05	0.88	0.71	-	-
4.00	-	3.02	2.49	2.17	1.84	1.57	1.36	1.19	1.04	0.88	0.72	0.56	-
3.00	3.71	3.01	2.47	2.06	1.75	1.51	1.31	1.15	1.03	0.88	0.71	0.55	-
2.00	3.53	2.84	2.33	1.96	1.68	1.46	1.28	1.14	1.01	0.84	0.69	0.53	0.35
1.00	3.56	2.81	2.30	1.93	1.66	1.44	1.27	1.10	0.95	0.80	0.64	0.48	0.32
0.00	3.33	2.67	2.20	1.86	1.58	1.36	1.18	1.02	0.89	0.73	0.59	0.42	-
-1.00	3.07	2.45	2.02	1.70	1.46	1.26	1.09	0.96	0.81	0.67	0.52	0.38	-
-2.00	3.04	2.38	1.94	1.62	1.39	1.20	1.05	0.88	0.73	0.61	0.47	-	-
-3.00	3.15	2.47	2.00	1.65	1.39	1.15	0.97	0.82	0.69	0.57	-	-	-
-4.00	3.25	2.47	1.98	1.60	1.34	1.11	0.94	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU (Minimum Loads)	HITCH	CANT	+/- 40° - +/- 50° Over Osc End		67%	

	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
9.00	-	-	2.35	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.23	1.77	1.49	1.30	1.15	-	-	-	-	-	-
7.00	-	-	-	-	1.59	1.23	0.99	0.87	0.80	-	-	-	-
6.00	-	-	-	-	1.63	1.35	1.07	0.85	0.70	0.64	-	-	-
5.00	-	-	-	1.93	1.59	1.31	1.07	0.89	0.70	0.53	0.49	-	-
4.00	-	2.76	2.21	1.78	1.45	1.23	1.01	0.85	0.70	0.54	0.38	0.33	-
3.00	3.08k	2.22	1.85	1.54	1.29	1.09	0.93	0.78	0.66	0.52	0.33	0.28	-
2.00	2.67	1.92	1.53	1.28	1.10	0.94	0.82	0.69	0.60	0.46	0.32	0.24	0.21
1.00	2.24	1.63	1.33	1.12	0.95	0.82	0.72	0.62	0.50	0.39	0.29	0.23	0.19
0.00	1.98	1.51	1.22	1.03	0.87	0.74	0.65	0.53	0.43	0.33	0.26	0.22	-
-1.00	1.94	1.48	1.19	0.98	0.82	0.70	0.61	0.49	0.39	0.32	0.26	0.23	-
-2.00	1.98	1.51	1.20	0.98	0.82	0.70	0.60	0.49	0.40	0.34	0.30	-	-
-3.00	2.07	1.57	1.24	1.02	0.85	0.73	0.63	0.54	0.46	0.42	-	-	-
-4.00	2.25	1.69	1.33	1.09	0.92	0.79	0.70	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU (Maximum Loads)	HITCH	CANT	+/- 40° - +/- 50° Over Osc End		67%	

	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
9.00	-	-	2.35	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.23	1.96	1.74	1.48	1.19	-	-	-	-	-	-
7.00	-	-	-	-	1.69	1.51	1.29	1.07	0.85	-	-	-	-
6.00	-	-	-	-	1.69	1.49	1.29	1.11	0.92	0.74	-	-	-
5.00	-	-	-	1.98	1.69	1.48	1.27	1.09	0.94	0.78	0.62	-	-
4.00	-	2.76	2.28	1.99	1.68	1.43	1.23	1.07	0.93	0.78	0.63	0.43	-
3.00	3.39	2.75	2.25	1.87	1.59	1.36	1.18	1.04	0.92	0.78	0.62	0.42	-
2.00	3.21	2.58	2.12	1.78	1.52	1.31	1.15	1.02	0.90	0.74	0.59	0.40	0.23
1.00	3.23	2.55	2.09	1.75	1.50	1.30	1.14	0.98	0.84	0.70	0.52	0.35	0.20
0.00	3.01	2.41	1.99	1.67	1.42	1.22	1.05	0.90	0.78	0.63	0.45	0.29	-
-1.00	2.75	2.19	1.80	1.52	1.29	1.11	0.97	0.84	0.70	0.54	0.38	0.25	-
-2.00	2.72	2.12	1.72	1.44	1.23	1.06	0.92	0.76	0.62	0.47	0.33	-	-
-3.00	2.83	2.21	1.79	1.47	1.23	1.01	0.84	0.70	0.57	0.42	-	-	-
-4.00	2.93	2.22	1.76	1.42	1.17	0.97	0.81	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU (Minimum Loads)	HITCH	CANT	+/- 50° - +/- 120°		67%	

	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
9.00	-	-	2.45	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.32	1.78	1.47	1.26	1.11	-	-	-	-	-	-
7.00	-	-	-	-	1.58	1.19	0.93	0.81	0.73	-	-	-	-
6.00	-	-	-	-	1.63	1.31	1.01	0.78	0.63	0.55	-	-	-
5.00	-	-	-	1.97	1.58	1.27	1.02	0.82	0.63	0.42	0.39	-	-
4.00	-	2.97	2.29	1.79	1.43	1.18	0.95	0.78	0.63	0.44	0.27	0.23	-
3.00	3.08k	2.33	1.88	1.52	1.25	1.03	0.86	0.71	0.57	0.40	0.21	0.17	-
2.00	2.91	1.96	1.51	1.22	1.04	0.86	0.74	0.61	0.48	0.35	0.21	0.13	0.10
1.00	2.38	1.62	1.28	1.05	0.86	0.74	0.63	0.50	0.38	0.27	0.17	0.12	0.08
0.00	2.05	1.47	1.15	0.94	0.77	0.65	0.53	0.40	0.30	0.21	0.14	0.11	-
-1.00	2.00	1.45	1.11	0.89	0.73	0.61	0.47	0.35	0.26	0.19	0.14	0.12	-
-2.00	2.05	1.47	1.12	0.89	0.73	0.60	0.46	0.36	0.28	0.21	0.19	-	-
-3.00	2.16	1.55	1.17	0.93	0.76	0.63	0.51	0.40	0.33	0.30	-	-	-
-4.00	2.38	1.69	1.28	1.02	0.84	0.71	0.62	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU (Maximum Loads)	HITCH	CANT	+/- 50° - +/- 120°		67%	

	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
9.00	-	-	2.45	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.32	1.99	1.75	1.46	1.14	-	-	-	-	-	-
7.00	-	-	-	-	1.69	1.49	1.26	1.02	0.79	-	-	-	-
6.00	-	-	-	-	1.69	1.47	1.26	1.06	0.87	0.68	-	-	-
5.00	-	-	-	2.01	1.69	1.46	1.23	1.05	0.89	0.72	0.52	-	-
4.00	-	2.97	2.37	2.02	1.68	1.40	1.19	1.02	0.88	0.72	0.54	0.33	-
3.00	3.82	2.95	2.34	1.90	1.58	1.33	1.14	0.99	0.86	0.72	0.53	0.32	-
2.00	3.59	2.75	2.19	1.79	1.50	1.28	1.10	0.97	0.84	0.68	0.49	0.30	0.12
1.00	3.62	2.71	2.15	1.76	1.48	1.26	1.09	0.93	0.78	0.63	0.42	0.24	0.09
0.00	3.34	2.55	2.03	1.67	1.39	1.17	0.99	0.84	0.71	0.54	0.34	0.19	-
-1.00	3.01	2.28	1.82	1.50	1.25	1.06	0.90	0.77	0.63	0.43	0.27	0.14	-
-2.00	2.98	2.21	1.73	1.41	1.17	1.00	0.86	0.69	0.52	0.35	0.21	-	-
-3.00	3.12	2.31	1.80	1.44	1.18	0.94	0.77	0.62	0.46	0.30	-	-	-
-4.00	3.24	2.32	1.77	1.38	1.12	0.90	0.73	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU (Minimum Loads)	HITCH	CANT	+/- 120° - +/- 140° Over Fixed End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.44	1.88	1.56	1.33	1.18	-	-	-	-	-	-
7.00	-	-	-	-	1.66	1.27	1.00	0.87	0.79	-	-	-	-
6.00	-	-	-	-	1.71	1.39	1.08	0.84	0.68	0.62	-	-	-
5.00	-	-	-	2.06	1.66	1.35	1.09	0.88	0.68	0.49	0.46	-	-
4.00	-	3.11	2.41	1.89	1.51	1.26	1.02	0.84	0.68	0.51	0.34	0.29	-
3.00	3.08k	2.47	1.99	1.62	1.33	1.11	0.93	0.77	0.64	0.48	0.28	0.23	-
2.00	3.10	2.11	1.63	1.32	1.12	0.94	0.81	0.67	0.56	0.42	0.28	0.20	0.16
1.00	2.57	1.77	1.40	1.15	0.95	0.82	0.70	0.59	0.46	0.35	0.24	0.18	0.15
0.00	2.24	1.62	1.27	1.04	0.86	0.72	0.63	0.49	0.38	0.28	0.21	0.17	-
-1.00	2.19	1.59	1.23	0.99	0.82	0.68	0.57	0.44	0.34	0.27	0.21	0.19	-
-2.00	2.25	1.62	1.24	0.99	0.81	0.68	0.56	0.45	0.36	0.29	0.25	-	-
-3.00	2.36	1.69	1.29	1.03	0.84	0.71	0.61	0.50	0.41	0.38	-	-	-
-4.00	2.58	1.84	1.40	1.12	0.92	0.78	0.69	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU (Maximum Loads)	HITCH	CANT	+/- 120° - +/- 140° Over Fixed End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.44	2.09	1.83	1.53	1.21	-	-	-	-	-	-
7.00	-	-	-	-	1.77	1.56	1.33	1.08	0.85	-	-	-	-
6.00	-	-	-	-	1.78	1.55	1.33	1.12	0.93	0.73	-	-	-
5.00	-	-	-	2.11	1.78	1.54	1.30	1.11	0.94	0.77	0.59	-	-
4.00	-	3.11	2.49	2.12	1.76	1.48	1.26	1.08	0.93	0.77	0.61	0.39	-
3.00	4.01	3.10	2.46	2.00	1.66	1.41	1.21	1.05	0.92	0.77	0.60	0.39	-
2.00	3.78	2.90	2.30	1.89	1.59	1.35	1.17	1.03	0.90	0.73	0.56	0.36	0.18
1.00	3.81	2.86	2.26	1.86	1.56	1.34	1.16	0.99	0.84	0.68	0.49	0.31	0.15
0.00	3.53	2.70	2.15	1.77	1.48	1.25	1.06	0.90	0.77	0.61	0.41	0.25	-
-1.00	3.21	2.43	1.94	1.60	1.34	1.13	0.97	0.83	0.68	0.51	0.34	0.20	-
-2.00	3.17	2.35	1.85	1.51	1.26	1.07	0.92	0.75	0.60	0.43	0.28	-	-
-3.00	3.31	2.46	1.92	1.54	1.26	1.02	0.83	0.68	0.54	0.38	-	-	-
-4.00	3.43	2.46	1.89	1.48	1.20	0.97	0.80	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU (Minimum Loads)	HITCH	CANT	+/- 140° - +/- 150° Over Fixed End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.44	1.90	1.59	1.36	1.20	-	-	-	-	-	-
7.00	-	-	-	-	1.69	1.30	1.03	0.90	0.82	-	-	-	-
6.00	-	-	-	-	1.73	1.42	1.11	0.87	0.71	0.65	-	-	-
5.00	-	-	-	2.08	1.69	1.38	1.12	0.92	0.72	0.54	0.50	-	-
4.00	-	3.09	2.41	1.91	1.54	1.29	1.05	0.87	0.72	0.56	0.39	0.34	-
3.00	3.08k	2.48	2.01	1.65	1.37	1.14	0.96	0.81	0.67	0.53	0.33	0.28	-
2.00	3.07	2.13	1.66	1.36	1.16	0.98	0.84	0.71	0.61	0.47	0.33	0.24	0.21
1.00	2.57	1.80	1.44	1.19	0.99	0.86	0.74	0.63	0.52	0.40	0.29	0.23	0.19
0.00	2.26	1.66	1.32	1.09	0.91	0.77	0.67	0.55	0.44	0.34	0.26	0.22	-
-1.00	2.21	1.63	1.28	1.04	0.86	0.73	0.63	0.50	0.40	0.32	0.26	0.23	-
-2.00	2.26	1.66	1.29	1.04	0.86	0.72	0.62	0.51	0.41	0.34	0.30	-	-
-3.00	2.37	1.73	1.34	1.08	0.89	0.75	0.65	0.55	0.47	0.43	-	-	-
-4.00	2.57	1.87	1.44	1.16	0.97	0.82	0.73	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU (Maximum Loads)	HITCH	CANT	+/- 140° - +/- 150° Over Fixed End		67%	

	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
9.00	-	-	2.57	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.44	2.10	1.85	1.56	1.24	-	-	-	-	-	-
7.00	-	-	-	-	1.79	1.59	1.35	1.11	0.88	-	-	-	-
6.00	-	-	-	-	1.80	1.57	1.35	1.15	0.95	0.76	-	-	-
5.00	-	-	-	2.13	1.80	1.56	1.33	1.13	0.97	0.80	0.63	-	-
4.00	-	3.09	2.49	2.14	1.78	1.50	1.28	1.11	0.96	0.80	0.64	0.44	-
3.00	3.92	3.07	2.46	2.01	1.69	1.43	1.23	1.07	0.95	0.80	0.63	0.43	-
2.00	3.71	2.88	2.31	1.91	1.61	1.38	1.20	1.06	0.93	0.76	0.60	0.40	0.23
1.00	3.74	2.85	2.28	1.88	1.59	1.37	1.19	1.02	0.87	0.71	0.53	0.35	0.20
0.00	3.47	2.69	2.17	1.79	1.50	1.28	1.09	0.93	0.80	0.64	0.46	0.30	-
-1.00	3.17	2.44	1.96	1.62	1.37	1.17	1.00	0.87	0.72	0.56	0.39	0.25	-
-2.00	3.13	2.36	1.87	1.54	1.29	1.11	0.96	0.79	0.64	0.48	0.33	-	-
-3.00	3.26	2.46	1.94	1.57	1.30	1.06	0.87	0.72	0.59	0.43	-	-	-
-4.00	3.38	2.47	1.91	1.51	1.24	1.01	0.84	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU (Minimum Loads)	HITCH	CANT	+/- 150° - +/- 160° Over Fixed End		67%	

	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
9.00	-	-	2.85	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.71	2.11	1.76	1.51	1.33	-	-	-	-	-	-
7.00	-	-	-	-	1.86	1.44	1.15	1.01	0.91	-	-	-	-
6.00	-	-	-	-	1.91	1.56	1.23	0.98	0.81	0.74	-	-	-
5.00	-	-	-	2.29	1.86	1.52	1.24	1.02	0.81	0.65	0.62	-	-
4.00	-	3.45	2.68	2.12	1.71	1.43	1.17	0.98	0.81	0.66	0.50	0.44	-
3.00	3.08k	2.81	2.27	1.85	1.53	1.28	1.08	0.91	0.77	0.64	0.44	0.38	-
2.00	3.54	2.44	1.90	1.55	1.32	1.11	0.96	0.81	0.71	0.60	0.44	0.35	0.30
1.00	3.01	2.10	1.67	1.37	1.15	0.99	0.85	0.74	0.64	0.52	0.40	0.33	0.29
0.00	2.68	1.96	1.54	1.27	1.06	0.90	0.78	0.67	0.57	0.46	0.37	0.32	-
-1.00	2.63	1.93	1.51	1.22	1.01	0.86	0.74	0.64	0.53	0.44	0.37	0.34	-
-2.00	2.69	1.95	1.51	1.22	1.01	0.85	0.73	0.64	0.55	0.46	0.42	-	-
-3.00	2.80	2.03	1.56	1.26	1.04	0.88	0.76	0.67	0.60	0.55	-	-	-
-4.00	3.02	2.17	1.67	1.35	1.12	0.96	0.84	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU (Maximum Loads)	HITCH	CANT	+/- 150° - +/- 160° Over Fixed End		67%	

	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
9.00	-	-	2.85	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.71	2.32	2.03	1.71	1.36	-	-	-	-	-	-
7.00	-	-	-	-	1.97	1.74	1.48	1.22	0.97	-	-	-	-
6.00	-	-	-	-	1.97	1.72	1.48	1.26	1.05	0.85	-	-	-
5.00	-	-	-	2.34	1.98	1.71	1.45	1.25	1.07	0.88	0.70	-	-
4.00	-	3.45	2.76	2.35	1.96	1.65	1.41	1.22	1.06	0.89	0.72	0.54	-
3.00	4.45	3.44	2.73	2.23	1.86	1.58	1.36	1.19	1.04	0.88	0.71	0.53	-
2.00	4.22	3.24	2.58	2.12	1.78	1.53	1.32	1.17	1.02	0.85	0.68	0.51	0.32
1.00	4.25	3.20	2.54	2.09	1.76	1.51	1.31	1.13	0.96	0.80	0.64	0.46	0.29
0.00	3.97	3.04	2.43	2.00	1.67	1.42	1.21	1.04	0.90	0.73	0.57	0.40	-
-1.00	3.65	2.77	2.21	1.82	1.53	1.31	1.12	0.97	0.81	0.66	0.50	0.35	-
-2.00	3.61	2.69	2.12	1.73	1.46	1.25	1.08	0.89	0.73	0.60	0.44	-	-
-3.00	3.75	2.80	2.19	1.77	1.46	1.19	0.99	0.82	0.69	0.55	-	-	-
-4.00	3.87	2.80	2.16	1.71	1.40	1.15	0.95	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3IU (Minimum Loads)	HITCH	CANT	+/- 160° - +/- 180° Over Fixed End		67%	

	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
9.00	-	-	2.88	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.76	2.22	1.89	1.65	1.47	-	-	-	-	-	-
7.00	-	-	-	-	1.98	1.58	1.31	1.16	1.06	-	-	-	-
6.00	-	-	-	-	2.03	1.70	1.38	1.13	0.96	0.88	-	-	-
5.00	-	-	-	2.38	1.98	1.66	1.39	1.17	0.96	0.80	0.76	-	-
4.00	-	3.39	2.73	2.23	1.85	1.58	1.33	1.13	0.96	0.81	0.68	0.63	-
3.00	3.08k	2.85	2.37	1.99	1.69	1.44	1.24	1.07	0.92	0.79	0.64	0.59	-
2.00	3.45	2.54	2.06	1.73	1.50	1.29	1.13	0.98	0.86	0.75	0.64	0.56	0.50
1.00	3.02	2.26	1.86	1.57	1.34	1.17	1.03	0.91	0.80	0.71	0.62	0.54	0.49
0.00	2.76	2.13	1.75	1.48	1.26	1.09	0.96	0.85	0.75	0.67	0.60	0.53	-
-1.00	2.72	2.11	1.71	1.43	1.22	1.05	0.93	0.82	0.73	0.65	0.60	0.55	-
-2.00	2.77	2.13	1.72	1.43	1.22	1.05	0.92	0.82	0.73	0.67	0.63	-	-
-3.00	2.85	2.20	1.77	1.47	1.25	1.08	0.95	0.85	0.77	0.72	-	-	-
-4.00	3.03	2.32	1.86	1.54	1.31	1.14	1.02	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3IU (Maximum Loads)	HITCH	CANT	+/- 160° - +/- 180° Over Fixed End		67%	

	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
9.00	-	-	2.88	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.76	2.41	2.13	1.83	1.50	-	-	-	-	-	-
7.00	-	-	-	-	2.08	1.86	1.61	1.36	1.11	-	-	-	-
6.00	-	-	-	-	2.08	1.84	1.61	1.39	1.19	0.98	-	-	-
5.00	-	-	-	2.43	2.09	1.83	1.58	1.38	1.20	1.02	0.84	-	-
4.00	-	3.39	2.80	2.44	2.07	1.78	1.54	1.35	1.19	1.02	0.85	0.70	-
3.00	4.18	3.38	2.78	2.32	1.98	1.71	1.50	1.32	1.18	1.02	0.85	0.69	-
2.00	3.99	3.21	2.64	2.23	1.91	1.66	1.47	1.31	1.16	0.99	0.82	0.68	0.52
1.00	4.02	3.18	2.61	2.20	1.89	1.65	1.45	1.27	1.10	0.94	0.78	0.64	0.49
0.00	3.80	3.04	2.51	2.12	1.81	1.57	1.36	1.19	1.04	0.87	0.73	0.61	-
-1.00	3.53	2.82	2.33	1.97	1.69	1.46	1.28	1.13	0.96	0.81	0.68	0.56	-
-2.00	3.50	2.75	2.25	1.89	1.62	1.41	1.24	1.05	0.89	0.76	0.65	-	-
-3.00	3.62	2.84	2.31	1.92	1.62	1.36	1.15	0.99	0.85	0.72	-	-	-
-4.00	3.71	2.84	2.28	1.87	1.57	1.32	1.12	-	-	-	-	-	-

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



Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL (Minimum Loads)	HITCH	CANT	+/- 20° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL (Maximum Loads)	HITCH	CANT	+/- 20° Over Osc End		75%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	3.00b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.19b	3.07b	2.90b	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.59b	3.34b	3.16b	3.01b	2.74r	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.71b	4.23b	3.83b	3.51b	3.27b	3.04b	2.82b	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.72b	5.01b	4.45b	3.99b	3.64b	3.33b	3.07b	2.84b	1.68a
0.00	9.20b	8.97b	7.86b	6.74b	5.80b	5.08b	4.51b	4.05b	3.69b	3.38b	3.10b	2.83b	-
-1.00	10.00c	10.00c	8.16b	6.85b	5.89b	5.16b	4.63b	4.18b	3.77b	3.41b	3.07b	2.18a	-
-2.00	10.00c	10.00c	8.42b	7.12b	6.17b	5.38b	4.73b	4.20k	3.74b	3.26b	2.63b	-	-
-3.00	10.00c	10.00c	8.56b	7.18b	6.15b	5.33b	4.59a	3.91b	3.20b	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.62b	5.41b	4.34b	3.39b	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL (Minimum Loads)	HITCH	CANT	+/- 20° - +/- 30° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.43a
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62a	1.46a	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.84r	2.14a	1.87a	1.85a	1.65a	1.56a	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.15a	1.91a	1.77a	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.52k	2.80b	2.50b	2.25a	2.07a	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL (Maximum Loads)	HITCH	CANT	+/- 20° - +/- 30° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.25b	3.06a	2.47a	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.19b	3.12b	3.00b	2.50a	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.58b	3.34b	3.19b	3.07b	2.90b	2.26a	-
3.00	7.35b	6.79b	5.68b	5.01k	4.83b	4.30b	3.88b	3.59b	3.34b	3.16b	2.96	2.73	-
2.00	7.97k	7.80a	6.74b	5.67b	5.30b	4.71b	4.23b	3.83b	3.51b	3.25	2.98	2.74	1.77a
1.00	8.13a	7.99b	7.41a	6.30b	5.72b	5.01b	4.45b	3.99b	3.61	3.28	2.99	2.70	1.68a
0.00	9.20b	8.97b	7.86b	6.74b	5.80b	5.08b	4.51b	4.04	3.68	3.32	2.98	2.64	-
-1.00	10.00c	10.00c	8.16b	6.85b	5.89b	5.16b	4.63b	4.17b	3.70b	3.29	2.92	2.18a	-
-2.00	10.00c	10.00c	8.42b	7.12b	6.17b	5.38b	4.73b	4.18	3.65	3.22	2.63b	-	-
-3.00	10.00c	10.00c	8.56b	7.18b	6.15b	5.33b	4.59a	3.91b	3.20b	2.07a	-	-	-
-4.00	10.00c	10.00c	8.06b	6.62b	5.41b	4.34b	3.39b	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL (Minimum Loads)	HITCH	CANT	+/- 30° - +/- 40° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.37a	1.29a	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.32a	1.37a	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.42a	1.39a	1.30a	1.29a
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.13r	1.99a	1.64a	1.48a	1.51a	1.38a	1.34
0.00	3.17a	3.44k	2.99k	3.14k	2.92r	2.61r	2.41r	2.12a	1.77a	1.66a	1.62	1.46	-
-1.00	3.05a	3.61a	3.17k	3.09k	3.06k	3.11r	2.72	2.14a	1.87a	1.80	1.62	1.48	-
-2.00	3.87k	3.31k	3.09k	3.08k	3.10k	3.12k	2.59a	2.24a	2.06	1.83	1.66	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	3.34k	3.20	2.76	2.40	2.12	1.92	-	-	-
-4.00	3.20k	3.12k	3.31k	3.86k	3.53b	3.08b	2.74b	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL (Maximum Loads)	HITCH	CANT	+/- 30° - +/- 40° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.44b	3.40b	2.96a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	3.23b	3.05	2.73	2.34	-	-	-
5.00	-	-	-	3.58a	3.62b	3.46b	3.32b	3.06	2.74	2.41	2.02	-	-
4.00	-	5.05k	4.56b	4.64b	4.21b	3.78b	3.45	3.07	2.71	2.38	2.03	1.71	-
3.00	7.35b	6.79b	5.68b	5.01k	4.64b	3.96	3.45	3.03	2.66	2.36	2.02	1.69	-
2.00	7.97k	7.80a	6.68	5.50	4.57b	3.89b	3.37	2.97	2.62	2.35	1.97	1.65	1.38
1.00	8.13a	7.99b	6.81	5.46	4.53b	3.86b	3.36	2.96	2.63	2.27	1.90	1.60	1.35
0.00	9.20b	8.97b	6.93b	5.51	4.56	3.86	3.34	2.92	2.56	2.16	1.82	1.55	-
-1.00	10.00c	9.32	6.93	5.48r	4.50	3.81	3.28	2.87	2.44	2.06	1.75	1.50	-
-2.00	10.00c	9.25	6.86	5.42	4.46	3.77	3.23	2.75	2.32	1.98	1.69	-	-
-3.00	10.00c	9.42	6.99	5.48	4.45	3.68	3.10	2.65	2.26	1.92	-	-	-
-4.00	10.00c	9.39	6.88	5.36	4.35	3.61	3.05	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL (Minimum Loads)	HITCH	CANT	+/- 40° - +/- 50° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.32a	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.22	1.09	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.15	1.03	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.62a	1.39	1.15	0.99	0.90
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36r	2.12	1.79	1.53	1.30	1.11	0.97	0.88
0.00	3.17a	3.44k	2.99k	3.14k	2.84	2.35	1.99	1.68	1.44	1.23	1.08	0.96	-
-1.00	3.05a	3.61a	3.17k	3.09k	2.77	2.28	1.92	1.62	1.39	1.21	1.08	0.98	-
-2.00	3.87k	3.31k	3.09k	3.08k	2.77	2.28	1.91	1.63	1.41	1.24	1.12	-	-
-3.00	3.17k	3.17k	3.13k	3.25k	2.82	2.33	1.96	1.68	1.47	1.33	-	-	-
-4.00	3.20k	3.12k	3.31k	3.61	2.94	2.46	2.09	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL (Maximum Loads)	HITCH	CANT	+/- 40° - +/- 50° Over Osc End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.35b	2.93	2.59a	2.02a	-	-	-	-
6.00	-	-	-	-	3.34b	3.25b	2.96	2.61	2.20	1.78	-	-	-
5.00	-	-	-	3.58a	3.62b	3.37b	2.95	2.59	2.21	1.85	1.49	-	-
4.00	-	5.05k	4.56b	4.64b	3.97b	3.38	2.95	2.52	2.18	1.86	1.51	1.21	-
3.00	7.35b	6.79b	5.68b	4.67b	3.95b	3.32	2.86	2.46b	2.14	1.83	1.48	1.20	-
2.00	7.97k	7.41b	5.71	4.61b	3.83b	3.22	2.79	2.42b	2.12	1.79	1.45	1.17	0.92
1.00	8.13a	7.53b	5.72	4.58b	3.79	3.20	2.78	2.40	2.06	1.70	1.38	1.11	0.89
0.00	9.20b	7.57	5.67	4.50	3.71	3.14	2.69r	2.30	1.96	1.60	1.29	1.05	-
-1.00	10.00c	7.46	5.56	4.39	3.61	3.03	2.58	2.19	1.82	1.48	1.21	1.00	-
-2.00	10.00c	7.32	5.41	4.25	3.49	2.94	2.50	2.05	1.68	1.39	1.15	-	-
-3.00	10.00c	7.52	5.53	4.31	3.49	2.85	2.35	1.94	1.61	1.33	-	-	-
-4.00	10.00c	7.51	5.48	4.21	3.40	2.78	2.29	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL (Minimum Loads)	HITCH	CANT	+/- 50° - +/- 120°		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.51	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.31	1.14	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.32	0.98	0.89	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.14	1.69	1.31	1.00	0.75	0.66	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.48	1.96	1.56	1.23	0.96	0.68	0.59	-
2.00	3.60k	3.02k	3.04k	3.12k	2.73	2.13	1.72	1.37	1.12	0.89	0.68	0.55	0.48
1.00	3.55k	3.05k	3.05k	3.07k	2.36	1.88	1.51	1.22	0.99	0.80	0.63	0.53	0.46
0.00	3.17a	3.44k	2.99k	2.87	2.17	1.69	1.37	1.10	0.89	0.72	0.60	0.52	-
-1.00	3.05a	3.61a	3.17k	2.76	2.07	1.61	1.29	1.04	0.85	0.70	0.60	0.53	-
-2.00	3.87k	3.31k	3.09k	2.75	2.07	1.60	1.28	1.04	0.86	0.73	0.65	-	-
-3.00	3.17k	3.17k	3.13k	2.84	2.13	1.66	1.34	1.10	0.93	0.83	-	-	-
-4.00	3.20k	3.12k	3.31k	3.02	2.30	1.81	1.49	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL (Maximum Loads)	HITCH	CANT	+/- 50° - +/- 120°		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.72	3.09a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.11	2.73a	2.14	1.60	-	-	-	-
6.00	-	-	-	-	3.34b	3.12	2.72	2.21	1.75	1.34	-	-	-
5.00	-	-	-	3.58a	3.62b	3.15	2.67	2.18	1.80	1.41	1.05	-	-
4.00	-	5.05k	4.56b	4.62	3.72	3.12	2.58	2.12	1.77	1.42	1.07	0.78	-
3.00	7.35b	6.79b	5.68b	4.59	3.65	2.98	2.47	2.06	1.75	1.40	1.06	0.77	-
2.00	7.97k	7.80	5.63	4.34	3.48	2.87	2.40	2.02	1.71	1.34	1.01	0.74	0.50
1.00	8.13a	7.67b	5.63	4.29	3.44	2.84	2.37r	1.97	1.60	1.25	0.93	0.68	0.47
0.00	9.20b	8.26	5.57	4.20r	3.33	2.72	2.22	1.81	1.47	1.13	0.83	0.61	-
-1.00	10.00c	8.16	5.42	4.01	3.14	2.53	2.04	1.67	1.31	1.00	0.75	0.55	-
-2.00	10.00c	7.99	5.22	3.83	2.99	2.41	1.96	1.52	1.16	0.90	0.68	-	-
-3.00	10.00c	8.28	5.39	3.90	3.00	2.29	1.78	1.39	1.09	0.83	-	-	-
-4.00	10.00c	8.27	5.32	3.78	2.88	2.20	1.71	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL (Minimum Loads)	HITCH	CANT	+/- 120° - +/- 140° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.28	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.13	1.04	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.21	1.76a	1.39a	1.15	0.91	0.81	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.05	1.68	1.38	1.12	0.84	0.75	-
2.00	3.60k	3.02k	3.04k	3.12k	2.72	2.21	1.84	1.51	1.27	1.05	0.84	0.71	0.64
1.00	3.55k	3.05k	3.05k	3.00	2.41	1.99	1.66	1.38	1.16	0.97	0.80	0.69	0.62
0.00	3.17a	3.44k	2.99k	2.83	2.25	1.83	1.53	1.27	1.07	0.90	0.77	0.68	-
-1.00	3.05a	3.61a	3.17k	2.74	2.17	1.76	1.46	1.22	1.03	0.88	0.77	0.70	-
-2.00	3.87k	3.31k	3.09k	2.74	2.16	1.76	1.45	1.22	1.04	0.91	0.82	-	-
-3.00	3.17k	3.17k	3.13k	2.80	2.22	1.81	1.50	1.28	1.11	1.00	-	-	-
-4.00	3.20k	3.12k	3.31k	2.95	2.36	1.93	1.64	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL (Maximum Loads)	HITCH	CANT	+/- 120° - +/- 140° Over Fixed End		90%	

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.29	3.61b	3.09	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.05b	2.73	2.20	1.70	-	-	-	-
6.00	-	-	-	-	3.34b	3.06b	2.71	2.26	1.84	1.46	-	-	-
5.00	-	-	-	3.58a	3.62b	3.08	2.67	2.24	1.88	1.51	1.19	-	-
4.00	-	5.05k	4.56b	4.32	3.58	3.05	2.59	2.18b	1.85	1.53	1.20	0.92	-
3.00	7.35b	6.79b	5.26b	4.29	3.52	2.93	2.50	2.12	1.82	1.52	1.20	0.92	-
2.00	7.97k	6.64b	5.13b	4.09	3.38	2.84	2.43	2.09	1.81	1.46	1.15	0.89	0.66
1.00	8.13a	6.71	5.09b	4.05	3.34	2.82	2.41	2.03	1.70	1.38	1.07	0.83	0.63
0.00	9.20b	6.59r	4.95r	3.93	3.24	2.72	2.28	1.90	1.59	1.27	0.99	0.77	-
-1.00	9.56	6.37	4.74	3.75	3.06	2.55	2.12	1.78	1.45	1.15	0.91	0.71	-
-2.00	9.48	6.23	4.58	3.60	2.94	2.44	2.04	1.65	1.31	1.06	0.85	-	-
-3.00	9.73	6.42	4.71	3.65	2.94	2.35	1.89	1.53	1.25	1.00	-	-	-
-4.00	10.00c	6.43	4.66	3.56	2.85	2.27	1.83	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL (Minimum Loads)	HITCH	CANT	+/- 140° - +/- 150° Over Fixed End		90%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.40	1.24	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.09	1.00	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.15	1.74	1.39a	1.11	0.87	0.78	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.44	1.99	1.63	1.33	1.08	0.81	0.71	-
2.00	3.60k	3.02k	3.04k	3.12k	2.64	2.14	1.78	1.46	1.23	1.01	0.81	0.67	0.60
1.00	3.55k	3.05k	3.05k	2.92	2.33	1.93	1.60	1.33	1.12	0.93	0.76	0.66	0.58
0.00	3.17a	3.44k	2.99k	2.74	2.17	1.76	1.47	1.22	1.02	0.86	0.73	0.65	-
-1.00	3.05a	3.61a	3.17k	2.65	2.09	1.69	1.40	1.17	0.98	0.84	0.73	0.66	-
-2.00	3.87k	3.31k	3.09k	2.65	2.09	1.69	1.39	1.17	1.00	0.86	0.78	-	-
-3.00	3.17k	3.17k	3.13k	2.72	2.15	1.74	1.45	1.22	1.06	0.96	-	-	-
-4.00	3.20k	3.12k	3.31k	2.87	2.28	1.87	1.58	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL (Maximum Loads)	HITCH	CANT	+/- 140° - +/- 150° Over Fixed End		90%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.21	3.54	3.03	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.05	2.67	2.15	1.66	-	-	-	-
6.00	-	-	-	-	3.34b	3.06	2.65	2.21	1.79	1.42	-	-	-
5.00	-	-	-	3.58a	3.55	3.03	2.61	2.18	1.83b	1.47	1.15	-	-
4.00	-	5.05k	4.56b	4.23	3.51	3.02	2.53	2.13	1.82b	1.49	1.17	0.89	-
3.00	7.35b	6.76	5.21	4.20	3.45	2.90	2.44	2.07	1.79	1.48	1.16	0.88	-
2.00	7.97k	6.54	5.04	4.01	3.31	2.81	2.37	2.04	1.76	1.42	1.11	0.85	0.63
1.00	8.13a	6.63	4.99	3.96	3.28	2.78	2.36	2.00	1.66	1.34	1.03	0.79	0.59
0.00	9.20b	6.47	4.85	3.86	3.18	2.67	2.22	1.85	1.55	1.22	0.95	0.73	-
-1.00	9.36	6.24	4.64	3.66	2.99	2.48	2.06	1.73	1.40	1.11	0.87	0.68	-
-2.00	9.27	6.09	4.48	3.51	2.87	2.38	1.99	1.59	1.27	1.02	0.81	-	-
-3.00	9.53	6.29	4.61	3.57	2.88	2.28	1.83	1.48	1.20	0.96	-	-	-
-4.00	9.81	6.30	4.56	3.47	2.78	2.20	1.77	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL (Minimum Loads)	HITCH	CANT	+/- 150° - +/- 160° Over Fixed End		90%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.30	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.15	1.06	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.17	0.93	0.83	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.08	1.71	1.40	1.14	0.86	0.77	-
2.00	3.60k	3.02k	3.04k	3.12k	2.75	2.24	1.87	1.54	1.29	1.07	0.86	0.73	0.65
1.00	3.55k	3.05k	3.05k	3.04	2.44	2.02	1.68	1.41	1.18	0.99	0.82	0.71	0.63
0.00	3.17a	3.44k	2.99k	2.86	2.28	1.86	1.56	1.30	1.09	0.92	0.79	0.70	-
-1.00	3.05a	3.61a	3.17k	2.78	2.20	1.79	1.49	1.24	1.05	0.90	0.79	0.71	-
-2.00	3.87k	3.31k	3.09k	2.78	2.20	1.79	1.48	1.24	1.06	0.93	0.83	-	-
-3.00	3.17k	3.17k	3.13k	2.84	2.26	1.84	1.53	1.30	1.13	1.02	-	-	-
-4.00	3.20k	3.12k	3.31k	2.99	2.40	1.96	1.66	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL (Maximum Loads)	HITCH	CANT	+/- 150° - +/- 160° Over Fixed End		90%	



	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.61b	3.09a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.08	2.74b	2.22	1.72	-	-	-	-
6.00	-	-	-	-	3.34b	3.08	2.73b	2.28	1.86	1.48	-	-	-
5.00	-	-	-	3.58a	3.62b	3.10	2.69b	2.26	1.90	1.53	1.20	-	-
4.00	-	5.05k	4.56b	4.33b	3.59b	3.08	2.61	2.20	1.87	1.55	1.22	0.94	-
3.00	7.35b	6.79b	5.26b	4.31b	3.53b	2.96	2.52	2.14	1.84	1.54	1.21	0.93	-
2.00	7.97k	6.68	5.13	4.13	3.41b	2.87	2.46	2.10b	1.82	1.48	1.17	0.90	0.67
1.00	8.13a	6.78	5.09	4.08	3.38	2.85	2.44	2.06	1.72	1.40	1.09	0.84	0.64
0.00	9.20b	6.64	4.99	3.97	3.27	2.74	2.30	1.93	1.61	1.29	1.00	0.78	-
-1.00	9.65	6.44	4.79	3.78	3.09	2.58	2.15	1.81	1.47	1.17	0.93	0.73	-
-2.00	9.57	6.29	4.63	3.63	2.97	2.47	2.07	1.67	1.33	1.08	0.87	-	-
-3.00	9.82	6.49	4.76	3.69	2.98	2.38	1.91	1.55	1.27	1.02	-	-	-
-4.00	10.00c	6.50	4.71	3.59	2.88	2.30	1.86	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3IL (Minimum Loads)	HITCH	CANT	+/- 160° - +/- 180° Over Fixed End		90%	


	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.57a	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.48a	1.41a	1.42a	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.19b	1.54a	1.33a	1.29a	1.31	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.58b	2.22b	1.76a	1.39a	1.36a	1.18	1.07	-
3.00	3.08k	3.18k	3.52k	3.41b	2.90b	2.50b	2.19b	1.92a	1.55a	1.33a	1.12	1.01	-
2.00	3.60k	3.02k	3.04k	3.12k	2.82b	2.45b	2.16r	1.76a	1.58	1.34	1.12	0.97	0.88
1.00	3.55k	3.05k	3.05k	3.07k	2.67r	2.36	2.01	1.71	1.47	1.26	1.08	0.96	0.87
0.00	3.17a	3.44k	2.99k	3.14k	2.65	2.21	1.89	1.61	1.39	1.20	1.05	0.95	-
-1.00	3.05a	3.61a	3.17k	3.09k	2.58	2.15	1.82	1.56	1.35	1.18	1.05	0.96	-
-2.00	3.87k	3.31k	3.09k	3.08k	2.57	2.14	1.82	1.56	1.36	1.20	1.09	-	-
-3.00	3.17k	3.17k	3.13k	3.17	2.62	2.19	1.86	1.61	1.42	1.29	-	-	-
-4.00	3.20k	3.12k	3.31k	3.31	2.75	2.31	1.99	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3IL (Maximum Loads)	HITCH	CANT	+/- 160° - +/- 180° Over Fixed End		90%	


	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.73a	3.14a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	3.25	2.86	2.46	1.98	-	-	-	-
6.00	-	-	-	-	3.34b	3.25	2.84k	2.51	2.11	1.72	-	-	-
5.00	-	-	-	3.58a	3.62b	3.28	2.87	2.48	2.13	1.78	1.44	-	-
4.00	-	5.05k	4.56b	4.49	3.76	3.25	2.82	2.42	2.10	1.79	1.46	1.18	-
3.00	7.35b	6.79	5.34	4.46	3.71	3.17	2.74	2.36b	2.07	1.76	1.44	1.17	-
2.00	7.97k	6.61	5.24	4.29	3.58	3.08	2.67	2.32b	2.06	1.73	1.41	1.14	0.91
1.00	8.13a	6.68	5.20	4.25	3.55	3.06	2.66	2.30	1.97	1.64	1.34	1.09	0.87
0.00	8.87r	6.55	5.10	4.16	3.48	2.97	2.56	2.20	1.88	1.54	1.26	1.03	-
-1.00	8.81	6.35	4.94	4.01	3.35	2.86	2.44	2.09	1.74	1.43	1.18	0.98	-
-2.00	8.74	6.23	4.80	3.88	3.24	2.77	2.37	1.96	1.62	1.35	1.12	-	-
-3.00	8.97	6.40	4.92	3.93	3.25	2.69	2.22	1.85	1.55	1.29	-	-	-
-4.00	9.17	6.41	4.87	3.84	3.16	2.62	2.17	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder


Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AU (Minimum Loads)	HITCH	SUPER CANT	+/- 180°		67%

	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
9.00	-	-	2.39	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.24	1.70	1.40	1.19	1.04	-	-	-	-	-	-
7.00	-	-	-	-	1.50	1.12	0.86	0.74	0.67	-	-	-	-
6.00	-	-	-	-	1.55	1.24	0.94	0.71	0.54	0.46	-	-	-
5.00	-	-	-	1.89	1.50	1.20	0.95	0.76	0.54	0.32	0.30	-	-
4.00	-	2.91	2.21	1.71	1.35	1.11	0.88	0.71	0.54	0.34	0.18	0.15	-
3.00	3.08k	2.24	1.78	1.43	1.16	0.96	0.79	0.64	0.48	0.31	0.12	0.09	-
2.00	2.83	1.85	1.41	1.13	0.95	0.78	0.66	0.51	0.38	0.25	0.12	0.05	0.02
1.00	2.26	1.49	1.16	0.94	0.77	0.65	0.53	0.39	0.28	0.18	0.08	0.03	0.01
0.00	1.91	1.34	1.03	0.84	0.68	0.53	0.41	0.29	0.20	0.11	0.05	0.02	-
-1.00	1.86	1.31	0.99	0.78	0.63	0.47	0.35	0.24	0.16	0.10	0.05	0.04	-
-2.00	1.91	1.34	1.00	0.78	0.63	0.47	0.34	0.25	0.17	0.12	0.10	-	-
-3.00	2.03	1.42	1.05	0.82	0.66	0.51	0.39	0.29	0.23	0.21	-	-	-
-4.00	2.27	1.57	1.16	0.91	0.74	0.62	0.51	-	-	-	-	-	-


Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AU (Maximum Loads)	HITCH	SUPER CANT	+/- 180°		67%

	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
9.00	-	-	2.39	-	-	-	-	-	-	-	-	-	-
8.00	-	-	2.24	1.92	1.68	1.39	1.08	-	-	-	-	-	-
7.00	-	-	-	-	1.62	1.42	1.19	0.96	0.73	-	-	-	-
6.00	-	-	-	-	1.62	1.41	1.19	1.00	0.81	0.62	-	-	-
5.00	-	-	-	1.94	1.62	1.39	1.17	0.98	0.83	0.66	0.44	-	-
4.00	-	2.91	2.30	1.95	1.60	1.33	1.12	0.96	0.82	0.66	0.46	0.25	-
3.00	3.79	2.89	2.26	1.82	1.50	1.26	1.07	0.92	0.80	0.66	0.45	0.24	-
2.00	3.55	2.68	2.11	1.71	1.42	1.21	1.04	0.90	0.78	0.62	0.40	0.22	0.05
1.00	3.58	2.64	2.07	1.68	1.40	1.19	1.02	0.86	0.72	0.55	0.33	0.16	0.02
0.00	3.29	2.47	1.95	1.59	1.31	1.10	0.92	0.78	0.65	0.45	0.25	0.10	-
-1.00	2.94	2.19	1.73	1.41	1.17	0.98	0.83	0.70	0.54	0.34	0.18	0.05	-
-2.00	2.90	2.11	1.63	1.31	1.09	0.92	0.78	0.62	0.42	0.26	0.13	-	-
-3.00	3.05	2.22	1.71	1.35	1.09	0.86	0.69	0.52	0.36	0.21	-	-	-
-4.00	3.18	2.22	1.68	1.29	1.03	0.82	0.66	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AL (Minimum Loads)	HITCH	SUPER CANT	+/- 180°		90%

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	3.40a	1.98a	1.91a	1.86a	-	-	-	-	-	-
7.00	-	-	-	-	3.06b	1.77k	1.65a	1.50a	1.31	-	-	-	-
6.00	-	-	-	-	3.13b	2.63b	1.83a	1.47	1.11	0.96	-	-	-
5.00	-	-	-	3.22a	3.03a	2.63b	2.04	1.54a	1.12	0.79	0.72	-	-
4.00	-	5.05k	4.32b	2.78a	2.98a	2.52	1.91	1.47	1.11	0.81	0.58	0.50	-
3.00	3.08k	3.18k	3.52k	3.41b	2.87	2.21	1.72	1.34	1.03	0.77	0.50	0.43	-
2.00	3.60k	3.02k	3.04k	3.12k	2.42	1.85	1.48	1.14	0.91	0.70	0.50	0.38	0.33
1.00	3.55k	3.05k	3.05k	2.75	2.03	1.59	1.26	0.99	0.79	0.61	0.46	0.36	0.31
0.00	3.17a	3.44k	2.99k	2.50	1.83	1.40	1.11	0.86	0.68	0.53	0.42	0.35	-
-1.00	3.05a	3.61a	3.17k	2.38	1.73	1.31	1.03	0.80	0.64	0.51	0.42	0.37	-
-2.00	3.87k	3.31k	3.09k	2.37	1.73	1.31	1.02	0.81	0.65	0.54	0.47	-	-
-3.00	3.17k	3.17k	3.13k	2.47	1.80	1.37	1.08	0.87	0.72	0.64	-	-	-
-4.00	3.20k	3.12k	3.31k	2.68	1.97	1.52	1.23	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AL (Maximum Loads)	HITCH	SUPER CANT	+/- 180°		90%

	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
9.00	-	-	3.52a	-	-	-	-	-	-	-	-	-	-
8.00	-	-	4.27a	4.31b	3.56	2.98a	2.09a	-	-	-	-	-	-
7.00	-	-	-	-	3.46b	2.97	2.52	1.94	1.42	-	-	-	-
6.00	-	-	-	-	3.34b	2.97	2.52	2.02	1.57	1.16	-	-	-
5.00	-	-	-	3.58a	3.58	2.97a	2.46	1.99	1.61	1.23	0.88	-	-
4.00	-	5.05k	4.56b	4.42	3.53	2.93	2.36b	1.94	1.58	1.24	0.90	0.62	-
3.00	7.35b	6.79b	5.54b	4.39	3.45	2.79	2.28	1.87	1.56	1.23	0.89	0.61	-
2.00	7.97k	7.73	5.40b	4.15b	3.28	2.69b	2.21	1.83	1.52	1.16	0.84	0.58	0.35
1.00	8.13a	7.56	5.45b	4.10b	3.23	2.65	2.17	1.76	1.40	1.07	0.76	0.51	0.32
0.00	9.20b	8.13	5.34r	3.97	3.12	2.50	1.99	1.59	1.27	0.94	0.66	0.45	-
-1.00	10.00c	8.02	5.15	3.73	2.88	2.27	1.81	1.45	1.11	0.81	0.57	0.39	-
-2.00	10.00c	7.83	4.92	3.53	2.72	2.14	1.71	1.30	0.96	0.71	0.51	-	-
-3.00	10.00c	8.16	5.10	3.61	2.73	2.02	1.53	1.16	0.88	0.64	-	-	-
-4.00	10.00c	8.14	5.02	3.48	2.60	1.93	1.46	-	-	-	-	-	-

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