

# ROADRAILER

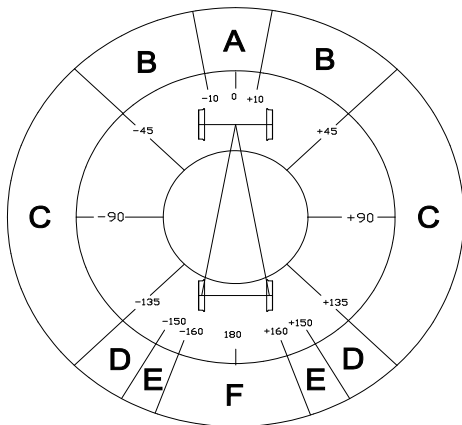
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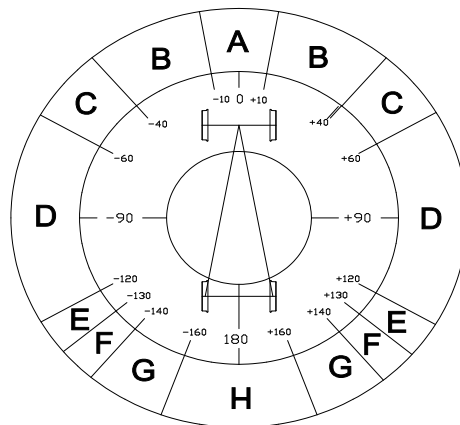
TEL:01823 433398

Oscillating Axle



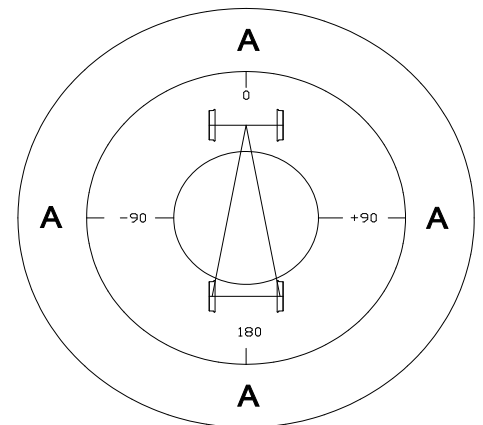
Fixed Axle  
Road Duties

Oscillating Axle



Fixed Axle  
Rail Duties  
Level Rail 0-50 mm  
Canted Rail 50-150mm

Oscillating Axle



Fixed Axle  
Rail Duties  
Maximum Cant + Twist  
150 + 27 mm

Machine fitted with permanently attached Quick Hitch

Standard Quick Hitch Lifting Eye Charts

Machine Type:	Komatsu PW160	
Serial Number:	H55912	
Rail Axle Number:	2450	
Network Rail Number:	99709 910086-6	
Equipment:	Boom 5.15m Arm 2.1m	
Date:	05th October 2016	
Issue:	1	
Software Versions:	Safety Controller	V1.26.0.10
	I/O Controller 1	V1.26.0.10
	I/O Controller 2	V1.26.0.10
	MMI	V1.26.0.10

This machine is equipped with a PME Rated Capacity Indicator. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530-PLT Issue 5



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.

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	PW160 Basic Mono	Equipment	5.15m + 2.10m
Issue Date	04/10/2016	Reference	RRV147 / 2450
System Type	PME RAIL	Additional Info.	Monoboomb

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AU	Hitch	ROAD	+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.67	4.07	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	4.06	3.60	3.19	2.74	-	-	-
6.00	-	-	-	-	-	4.08	3.61	3.21	2.79	2.42	-	-
5.00	-	-	-	-	4.74	4.11	3.62	3.15	2.74	2.42	2.12	-
4.00	7.08k	7.21k	6.63	5.59	4.73	4.03	3.48	3.03	2.67	2.35	2.09	1.85
3.00	-	-	6.25	5.20	4.41	3.79	3.29	2.89	2.55	2.27	2.02	1.80
2.00	-	-	5.12a	4.71	4.05	3.52	3.09	2.73	2.43	2.17	1.95	1.75
1.00	-	-	4.53a	4.37	3.77	3.30	2.91	2.59	2.31	2.08	1.87	1.69
0.00	-	-	5.02	4.20	3.61	3.15	2.78	2.48	2.22	2.00	1.81	1.64
-1.00	3.80a	5.42a	5.03	4.22	3.57	3.09	2.71	2.41	2.16	1.95	1.77	1.62
-2.00	6.93a	6.44	5.22	4.27	3.60	3.10	2.72	2.41	2.17	1.97	1.78	-
-3.00	8.82	6.70	5.34	4.36	3.68	3.17	2.79	2.50	2.22	1.97	-	-
-4.00	-	-	5.27	4.37	3.71	3.21	2.82	2.50	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BU	Hitch	ROAD	+/- 10° - +/- 45° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.80	2.44	2.14	-	-	-	-	-
7.00	-	-	-	-	-	2.42	2.16	1.88	1.56	-	-	-
6.00	-	-	-	-	-	2.44	2.16	1.90	1.60	1.33	-	-
5.00	-	-	-	-	2.87	2.48	2.16	1.84	1.55	1.33	1.12	-
4.00	6.88	5.08	4.01	3.40	2.86	2.40	2.02	1.72	1.48	1.26	1.08	0.91
3.00	-	-	3.63	3.01	2.54	2.15	1.84	1.58	1.36	1.18	1.01	0.87
2.00	-	-	2.80	2.53	2.18	1.88	1.63	1.42	1.24	1.08	0.94	0.81
1.00	-	-	2.52	2.19	1.90	1.66	1.46	1.28	1.12	0.99	0.87	0.76
0.00	-	-	2.42	2.02	1.74	1.51	1.33	1.17	1.03	0.91	0.80	0.71
-1.00	3.80a	3.09	2.43	2.04	1.70	1.45	1.26	1.10	0.97	0.86	0.77	0.69
-2.00	4.49	3.32	2.61	2.08	1.73	1.46	1.27	1.10	0.98	0.88	0.78	-
-3.00	4.60	3.43	2.72	2.18	1.81	1.53	1.33	1.19	1.03	0.88	-	-
-4.00	-	-	2.65	2.18	1.84	1.57	1.36	1.19	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00 Lift Point	3.00 Config	4.00 Sector	5.00	Osc Axle	6.00 Safety	7.00 7.50
1CU	Hitch	ROAD	+/- 45° - +/- 135°		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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.23	2.82	2.48	-	-	-	-	-
7.00	-	-	-	-	-	2.80	2.49	2.19	1.83	-	-	-
6.00	-	-	-	-	-	2.82	2.50	2.20	1.88	1.58	-	-
5.00	-	-	-	-	3.30	2.86	2.50	2.15	1.83	1.58	1.35	-
4.00	7.08k	5.84	4.62	3.91	3.30	2.78	2.36	2.03	1.75	1.52	1.32	1.13
3.00	-	-	4.24	3.52	2.97	2.53	2.18	1.89	1.64	1.43	1.25	1.08
2.00	-	-	3.41	3.04	2.61	2.27	1.97	1.73	1.52	1.33	1.17	1.03
1.00	-	-	3.12	2.70	2.34	2.04	1.79	1.58	1.40	1.24	1.10	0.97
0.00	-	-	3.03	2.53	2.17	1.89	1.66	1.47	1.31	1.17	1.04	0.93
-1.00	3.80a	3.85	3.04	2.54	2.14	1.83	1.60	1.41	1.25	1.12	1.00	0.90
-2.00	5.43a	4.09	3.22	2.59	2.17	1.85	1.60	1.41	1.26	1.13	1.01	-
-3.00	5.61	4.19	3.33	2.69	2.24	1.91	1.67	1.50	1.31	1.14	-	-
-4.00	-	-	3.26	2.69	2.28	1.96	1.70	1.49	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1DU	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-
6.00	-	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1EU	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-
6.00	-	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1FU	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-
6.00	-	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	3.00	Config	4.00	Sector	5.00	Osc Axle	6.00	Safety	7.00	7.50
1AL		Hitch		ROAD		+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.39	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	4.64	4.08	3.59	3.01a	-	-	-
6.00	-	-	-	-	-	4.66	4.09	3.61	3.13	2.71	-	-
5.00	-	-	-	-	5.47	4.69	4.10	3.55	3.08	2.71	2.38	-
4.00	7.08k	7.21k	7.95	6.55	5.47	4.61	3.95	3.42	3.00	2.64	2.34	2.07
3.00	-	-	7.53	6.12	5.11	4.34	3.75	3.27	2.88	2.55	2.27	2.02
2.00	-	-	5.12a	5.59	4.72	4.06	3.53	3.10	2.75	2.45	2.19	1.97
1.00	-	-	4.53a	5.21	4.42	3.82	3.34	2.95	2.63	2.35	2.12	1.91
0.00	-	-	5.93a	5.03	4.24	3.66	3.20	2.84	2.53	2.27	2.05	1.86
-1.00	3.80a	5.42a	6.12	5.05	4.21	3.60	3.13	2.77	2.47	2.22	2.01	1.83
-2.00	6.93a	8.09	6.38	5.10	4.24	3.61	3.14	2.77	2.48	2.24	2.02	-
-3.00	9.59a	8.32	6.43	5.21	4.32	3.68	3.21	2.86	2.53	2.24	-	-
-4.00	-	-	5.84b	5.16	4.32	3.70	3.23	2.85	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BL	Hitch	ROAD	+/- 10° - +/- 45° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.30	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	4.51	3.94	3.44	2.91	-	-	-
6.00	-	-	-	-	-	4.53	3.95	3.46	2.98	2.56	-	-
5.00	-	-	-	-	5.38	4.57	3.96	3.40	2.93	2.56	2.23	-
4.00	7.08k	7.21k	8.06	6.52	5.37	4.48	3.80	3.27	2.84	2.49	2.19	1.92
3.00	-	-	7.60	6.06	5.00	4.20	3.60	3.11	2.72	2.40	2.12	1.87
2.00	-	-	5.12a	5.49	4.58	3.90	3.37	2.94	2.59	2.29	2.04	1.82
1.00	-	-	4.53a	5.09	4.27	3.65	3.17	2.78	2.46	2.19	1.96	1.76
0.00	-	-	5.93a	4.89	4.08	3.48	3.03	2.66	2.36	2.11	1.89	1.71
-1.00	3.80a	5.42a	6.07	4.91	4.04	3.41	2.95	2.59	2.30	2.06	1.85	1.68
-2.00	6.93a	8.28	6.35	4.97	4.07	3.43	2.96	2.59	2.30	2.07	1.86	-
-3.00	9.59a	8.51	6.40	5.08	4.16	3.51	3.04	2.69	2.36	2.08	-	-
-4.00	-	-	5.84b	5.03	4.18	3.54	3.06b	2.68	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00 Lift Point	3.00 Config	4.00 Sector	5.00	Osc Axle	6.00 Safety	7.00 7.50
1CL	Hitch	ROAD	+/- 45° - +/- 135°		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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.22	4.46	3.00a	-	-	-	-	-
7.00	-	-	-	-	4.44	3.88	3.39	2.86	-	-	-	-
6.00	-	-	-	-	4.47	3.89	3.41	2.93	2.52	-	-	-
5.00	-	-	-	-	5.30	4.50	3.90	3.35	2.88	2.52	2.19	-
4.00	7.08k	7.21k	7.95	6.43	5.29	4.42	3.74	3.22	2.80	2.44	2.15	1.89
3.00	-	-	7.49	5.97	4.92	4.14	3.54	3.06	2.68	2.36	2.08	1.84
2.00	-	-	5.12a	5.40	4.51	3.84	3.31	2.89	2.54	2.25	2.00	1.78
1.00	-	-	4.53a	5.00	4.19	3.59	3.11	2.73	2.41	2.15	1.92	1.72
0.00	-	-	5.93a	4.80	4.00	3.42	2.97	2.61	2.31	2.07	1.85	1.67
-1.00	3.80a	5.42a	5.95	4.82	3.96	3.35	2.89	2.54	2.25	2.01	1.81	1.64
-2.00	6.93a	8.13	6.23	4.88	4.00	3.36	2.90	2.54	2.26	2.03	1.82	-
-3.00	9.59a	8.39	6.29	4.99	4.08	3.44	2.98	2.64	2.32	2.03	-	-
-4.00	-	-	5.84b	4.94	4.10	3.47	3.01	2.63	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1DL	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-	-
6.00	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1EL	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-
6.00	-	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1FL	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.49a	4.50a	3.00a	-	-	-	-	-
7.00	-	-	-	-	-	6.51a	5.56a	4.40a	3.01a	-	-	-
6.00	-	-	-	-	-	6.39a	5.70	5.01	4.44	3.72a	-	-
5.00	-	-	-	-	6.49a	6.50	5.67	5.00	4.46	3.97	3.52	-
4.00	7.08k	7.21k	10.00c	9.06	7.62	6.48	5.63a	4.95	4.38	3.90	3.50	3.14
3.00	-	-	10.00c	8.78	7.35	6.28	5.46	4.80	4.26	3.81	3.43	3.09
2.00	-	-	5.12a	8.24	6.96	6.00	5.24	4.63	4.13	3.71	3.35	3.04
1.00	-	-	4.53a	7.85	6.67	5.76	5.05	4.48	4.01	3.61	3.27	2.98
0.00	-	-	5.93a	7.67	6.49	5.60	4.91	4.36	3.91	3.53	3.21	2.93
-1.00	3.80a	5.42a	7.99a	7.63	6.45	5.53	4.84	4.29	3.85	3.48	3.17	2.90
-2.00	6.93a	8.59a	9.39	7.74	6.48	5.55	4.85	4.30	3.86	3.50	3.18	-
-3.00	9.59a	9.42b	8.69b	7.67	6.47	5.56	4.88	4.32	3.87	3.49	-	-
-4.00	-	-	5.84b	5.41b	5.06b	4.60b	3.92b	3.04b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	2.00	Lift Point	3.00	Config	4.00	Sector	5.00	Osc Axle	6.00	Safety	7.00	7.50
2AU		Hitch		RAIL		+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.43	3.88	3.45	-	-	-	-	-
7.00	-	-	-	-	-	3.87	3.44	3.08	2.66	-	-	-
6.00	-	-	-	-	-	3.89	3.45	3.06	2.68	2.36	2.05	-
5.00	-	-	-	5.27	4.50	3.92	3.44	3.01	2.63	2.33	2.06	1.81
4.00	-	7.77	6.23	5.25	4.44	3.81	3.31	2.90	2.56	2.27	2.03	1.80
3.00	-	-	5.74	4.84	4.13	3.57	3.13	2.76	2.46	2.19	1.97	1.76
2.00	-	-	4.64a	4.40	3.83	3.35	2.95	2.62	2.34	2.11	1.90	1.71
1.00	-	-	4.74a	4.16	3.60	3.16	2.80	2.50	2.24	2.02	1.83	1.66
0.00	-	-	4.81	4.04	3.47	3.04	2.70	2.41	2.17	1.96	1.78	1.62
-1.00	4.05a	6.00	4.86	4.07	3.46	3.01	2.65	2.36	2.13	1.93	1.76	1.61
-2.00	7.37a	6.32	5.00	4.13	3.50	3.03	2.67	2.38	2.15	1.95	1.76	-
-3.00	8.29	6.31	5.08	4.22	3.58	3.10	2.75	2.45	2.19	-	-	-
-4.00	-	-	-	4.18	3.57	3.11	2.74	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	2.00	Lift Point	3.00	Config	Sector	Osc Axle	Safety
2BU		Hitch		RAIL	+/- 10° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.91	2.57	2.31	-	-	-	-	-
7.00	-	-	-	-	-	2.57	2.30	2.06	1.75	-	-	-
6.00	-	-	-	-	-	2.59	2.31	2.04	1.76	1.53	1.30	-
5.00	-	-	-	3.46	2.98	2.61	2.30	1.99	1.72	1.51	1.31	1.12
4.00	-	4.89	4.01	3.45	2.92	2.51	2.17	1.89	1.66	1.45	1.28	1.11
3.00	-	-	3.56	3.06	2.64	2.29	2.00	1.76	1.55	1.37	1.22	1.07
2.00	-	-	2.93	2.65	2.35	2.07	1.83	1.63	1.45	1.29	1.15	1.02
1.00	-	-	2.79	2.44	2.14	1.90	1.69	1.51	1.35	1.21	1.09	0.98
0.00	-	-	2.72	2.32	2.02	1.79	1.59	1.42	1.28	1.15	1.04	0.94
-1.00	4.05a	3.36	2.76	2.35	2.01	1.75	1.55	1.38	1.24	1.12	1.01	0.92
-2.00	4.52	3.60	2.89	2.40	2.05	1.78	1.56	1.39	1.26	1.14	1.02	-
-3.00	4.53	3.59	2.96	2.49	2.13	1.84	1.64	1.46	1.30	-	-	-
-4.00	-	-	-	2.45	2.12	1.85	1.63	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	2.00	Lift Point	2.50	3.00	Config	3.50	4.00	Sector	4.50	5.00	Osc Axle	5.50	6.00	Safety	6.50	7.00	7.50
2CU		Hitch			RAIL		+/- 40° - +/- 60° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.59	2.29	2.05	-	-	-	-	-
7.00	-	-	-	-	-	2.28	2.05	1.83	1.54	-	-	-
6.00	-	-	-	-	-	2.31	2.06	1.81	1.55	1.34	1.12	-
5.00	-	-	-	3.09	2.66	2.33	2.04	1.76	1.51	1.31	1.13	0.95
4.00	-	4.37	3.58	3.08	2.61	2.22	1.92	1.66	1.44	1.26	1.10	0.94
3.00	-	-	3.13	2.70	2.32	2.01	1.75	1.53	1.34	1.18	1.04	0.91
2.00	-	-	2.51	2.29	2.03	1.79	1.58	1.40	1.24	1.10	0.97	0.86
1.00	-	-	2.36	2.07	1.83	1.62	1.44	1.28	1.14	1.02	0.91	0.81
0.00	-	-	2.29	1.96	1.71	1.51	1.34	1.19	1.07	0.96	0.86	0.77
-1.00	3.68	2.85	2.34	1.99	1.69	1.47	1.30	1.15	1.03	0.92	0.83	0.76
-2.00	3.86	3.08	2.46	2.04	1.73	1.50	1.31	1.16	1.05	0.94	0.84	-
-3.00	3.88	3.08	2.53	2.12	1.81	1.56	1.39	1.23	1.09	-	-	-
-4.00	-	-	-	2.09	1.80	1.57	1.38	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector				Osc Axle	Safety	
2DU	Hitch	RAIL	+/- 60° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.28	1.99	1.78	-	-	-	-	-
7.00	-	-	-	-	-	1.99	1.77	1.57	1.29	-	-	-
6.00	-	-	-	-	-	2.01	1.78	1.55	1.30	1.10	0.89	-
5.00	-	-	-	2.77	2.35	2.04	1.77	1.50	1.26	1.08	0.90	0.73
4.00	-	4.05	3.24	2.75	2.29	1.92	1.63	1.39	1.19	1.02	0.87	0.73
3.00	-	-	2.76	2.34	1.99	1.70	1.46	1.26	1.09	0.94	0.81	0.69
2.00	-	-	2.08	1.91	1.69	1.47	1.28	1.12	0.98	0.85	0.74	0.64
1.00	-	-	1.92	1.67	1.47	1.29	1.13	1.00	0.88	0.77	0.67	0.59
0.00	-	-	1.85	1.55	1.34	1.17	1.03	0.91	0.80	0.71	0.62	0.55
-1.00	3.20	2.37	1.90	1.59	1.33	1.13	0.98	0.86	0.76	0.67	0.60	0.53
-2.00	3.41	2.63	2.03	1.64	1.36	1.16	1.00	0.87	0.78	0.69	0.60	-
-3.00	3.43	2.62	2.11	1.73	1.45	1.23	1.08	0.95	0.82	-	-	-
-4.00	-	-	-	1.69	1.44	1.23	1.07	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU	Hitch	RAIL	+/- 120° - +/- 130° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.74	2.43	2.18	-	-	-	-	-
7.00	-	-	-	-	2.42	2.18	1.95	1.66	-	-	-	-
6.00	-	-	-	-	2.44	2.18	1.93	1.67	1.45	1.22	-	-
5.00	-	-	-	3.25	2.81	2.47	2.17	1.89	1.63	1.42	1.23	1.05
4.00	-	4.53	3.74	3.23	2.75	2.36	2.05	1.78	1.56	1.37	1.20	1.04
3.00	-	-	3.31	2.86	2.47	2.15	1.88	1.66	1.46	1.29	1.14	1.01
2.00	-	-	2.70	2.46	2.19	1.94	1.72	1.52	1.36	1.21	1.08	0.96
1.00	-	-	2.55	2.25	1.99	1.77	1.58	1.41	1.26	1.13	1.02	0.91
0.00	-	-	2.49	2.14	1.87	1.66	1.48	1.32	1.19	1.07	0.97	0.87
-1.00	3.90	3.06	2.53	2.17	1.86	1.63	1.44	1.28	1.15	1.04	0.94	0.86
-2.00	4.08	3.29	2.66	2.22	1.90	1.65	1.45	1.29	1.17	1.06	0.95	-
-3.00	4.09	3.28	2.72	2.30	1.97	1.71	1.53	1.36	1.21	-	-	-
-4.00	-	-	-	2.26	1.96	1.72	1.52	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU	Hitch	RAIL	+/- 130° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.05	2.71	2.43	-	-	-	-	-
7.00	-	-	-	-	2.70	2.43	2.18	1.87	-	-	-	-
6.00	-	-	-	-	2.72	2.44	2.16	1.88	1.64	1.40	-	-
5.00	-	-	-	3.61	3.12	2.75	2.42	2.11	1.84	1.62	1.41	1.22
4.00	-	5.04	4.16	3.59	3.07	2.64	2.30	2.01	1.77	1.56	1.38	1.21
3.00	-	-	3.72	3.22	2.79	2.43	2.13	1.89	1.67	1.49	1.32	1.17
2.00	-	-	3.12	2.82	2.51	2.22	1.97	1.75	1.57	1.40	1.26	1.13
1.00	-	-	2.97	2.61	2.30	2.05	1.83	1.64	1.47	1.33	1.20	1.08
0.00	-	-	2.91	2.50	2.19	1.94	1.73	1.55	1.40	1.27	1.15	1.04
-1.00	4.05a	3.56	2.95	2.53	2.17	1.90	1.69	1.51	1.36	1.23	1.12	1.03
-2.00	4.70	3.79	3.07	2.58	2.21	1.93	1.70	1.52	1.38	1.25	1.13	-
-3.00	4.72	3.78	3.14	2.66	2.29	1.99	1.78	1.59	1.42	-	-	-
-4.00	-	-	-	2.62	2.28	2.00	1.77	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GU	Hitch	RAIL	+/- 140° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.61	3.20	2.88	-	-	-	-	-
7.00	-	-	-	-	-	3.20	2.88	2.59	2.24	-	-	-
6.00	-	-	-	-	-	3.22	2.88	2.57	2.25	1.99	1.72	-
5.00	-	-	-	4.25	3.68	3.24	2.87	2.52	2.21	1.96	1.73	1.52
4.00	-	5.93	4.90	4.23	3.63	3.14	2.75	2.42	2.14	1.90	1.70	1.51
3.00	-	-	4.47	3.86	3.34	2.92	2.58	2.29	2.04	1.83	1.64	1.47
2.00	-	-	3.86	3.46	3.07	2.71	2.41	2.16	1.94	1.75	1.58	1.42
1.00	-	-	3.72	3.25	2.86	2.54	2.28	2.05	1.85	1.67	1.51	1.38
0.00	-	-	3.65	3.14	2.74	2.43	2.18	1.96	1.77	1.61	1.47	1.34
-1.00	4.05a	4.44	3.70	3.17	2.73	2.40	2.14	1.92	1.73	1.58	1.44	1.32
-2.00	5.80	4.68	3.82	3.22	2.77	2.42	2.15	1.93	1.76	1.60	1.45	-
-3.00	5.84	4.68	3.89	3.30	2.84	2.49	2.23	2.00	1.79	-	-	-
-4.00	-	-	-	3.26	2.83	2.49	2.21	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HU	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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	5.85	5.13	4.52	3.57a	-	-	-
6.00	-	-	-	-	-	5.87a	5.15	4.57	4.06	3.60	2.32a	-
5.00	-	-	-	7.23a	6.73	5.84	5.13	4.55	4.02	3.59	3.21	2.27a
4.00	-	10.00c	9.64	7.96	6.70	5.78	5.03	4.43	3.94	3.53	3.18	2.86
3.00	-	-	9.11	7.57	6.42	5.54	4.85	4.29	3.83	3.44	3.11	2.82
2.00	-	-	4.64a	7.10	6.10	5.30	4.66	4.15	3.72	3.35	3.04	2.77
1.00	-	-	4.74a	6.83	5.86	5.11	4.51	4.02	3.61	3.27	2.98	2.72
0.00	-	-	6.31a	6.71	5.73	4.98	4.40	3.93	3.54	3.21	2.92	2.68
-1.00	4.05a	6.33a	8.08	6.75	5.71	4.95	4.35	3.88	3.49	3.17	2.90	2.66
-2.00	7.37a	8.94a	8.25b	6.81	5.75	4.97	4.37	3.89	3.52	3.19	2.90	-
-3.00	9.41b	8.72b	8.17b	6.78	5.76	5.00	4.40	3.92	3.53	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	3.00	Config	4.00	Sector	5.00	Osc Axle	6.00	Safety	7.00	7.50
2AL		Hitch		RAIL		+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	6.40	5.55a	4.79a	3.57a	-	-	-	-
6.00	-	-	-	-	6.40	5.58	4.90	4.36	3.86	2.32a	-	-
5.00	-	-	-	7.23a	6.97a	6.40	5.55	4.90a	4.34	3.86	3.44	2.27a
4.00	-	10.00c	10.00c	8.92	7.44	6.33	5.50	4.81	4.26	3.79	3.40	3.05
3.00	-	-	10.00c	8.47	7.10	6.08	5.28	4.65	4.13	3.70	3.33	3.01
2.00	-	-	4.64a	7.92	6.73	5.80	5.07	4.48	4.00	3.59	3.25	2.95
1.00	-	-	4.74a	7.60	6.45	5.58	4.89	4.34	3.88	3.50	3.17	2.89
0.00	-	-	6.31a	7.44	6.30	5.43	4.77	4.23	3.79	3.43	3.11	2.84
-1.00	4.05a	6.33a	8.22a	7.51	6.28	5.39	4.71	4.18	3.74	3.38	3.08	2.82a
-2.00	7.37a	8.94a	9.20	7.55	6.33	5.42	4.73	4.19	3.77	3.41	3.09	-
-3.00	9.41b	8.72b	8.17b	7.47	6.30b	5.42	4.75	4.21	3.77	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL	Hitch	RAIL	+/- 10° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.62	4.83	3.80a	-	-	-	-	-
7.00	-	-	-	-	4.82	4.23	3.74	3.18	-	-	-	-
6.00	-	-	-	-	4.86	4.25	3.71	3.20	2.78	2.32a	-	-
5.00	-	-	-	6.87	5.73	4.86	4.23	3.64	3.14	2.74	2.36	2.00
4.00	-	10.00c	8.39	6.85	5.64	4.73	4.04	3.49	3.04	2.66	2.31	1.99
3.00	-	-	7.63	6.23	5.19	4.40	3.78	3.29	2.89	2.54	2.22	1.93
2.00	-	-	4.64a	5.56	4.74	4.07	3.53	3.09	2.73	2.41	2.11	1.85
1.00	-	-	4.74a	5.21	4.41	3.80	3.32	2.92	2.59	2.28	2.01	1.78
0.00	-	-	6.17	5.03	4.22	3.63	3.17	2.79	2.48	2.19	1.94	1.72
-1.00	4.05a	6.33a	6.19	5.08	4.20	3.58	3.10	2.73	2.41	2.13	1.89	1.70
-2.00	7.37a	8.25	6.50	5.16	4.26	3.61	3.12	2.75	2.45	2.16	1.91	-
-3.00	9.41b	8.44	6.52b	5.25	4.38	3.71	3.23	2.84	2.51	-	-	-
-4.00	-	-	-	4.88b	4.31	3.68	3.20	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	2.50	3.00	Config	3.50	4.00	Sector	4.50	5.00	Osc Axle	6.00	Safety	6.50	7.00	7.50
2CL		Hitch			RAIL			+/- 40° - +/- 60° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.93	4.27	3.74	-	-	-	-	-
7.00	-	-	-	-	-	4.26	3.75	3.33	2.82	-	-	-
6.00	-	-	-	-	-	4.29	3.77	3.30	2.84	2.44	2.03	-
5.00	-	-	-	6.00	5.04	4.33	3.75	3.23	2.78	2.40	2.04	1.72
4.00	-	9.32	7.23	5.98	4.95	4.17	3.57	3.08	2.68	2.31	2.00	1.71
3.00	-	-	6.51	5.38	4.52	3.85	3.32	2.89	2.53	2.19	1.91	1.65
2.00	-	-	4.64a	4.75	4.09	3.53	3.07	2.70	2.36	2.06	1.80	1.57
1.00	-	-	4.74a	4.42	3.77	3.27	2.87	2.53	2.21	1.94	1.71	1.50
0.00	-	-	5.15	4.24	3.59	3.11	2.72	2.39	2.10	1.85	1.63	1.44
-1.00	4.05a	6.33a	5.22	4.29	3.58	3.06	2.66	2.32	2.03	1.79	1.59	1.42
-2.00	7.37a	7.15	5.44	4.37	3.63	3.09	2.68	2.34	2.07	1.83	1.60	-
-3.00	9.41b	7.10	5.56	4.50	3.75	3.19	2.80	2.46	2.13	-	-	-
-4.00	-	-	-	4.44	3.73	3.20	2.78	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector				Osc Axle	Safety	
2DL	Hitch	RAIL	+/- 60° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.34	3.75	3.31	-	-	-	-	-
7.00	-	-	-	-	-	3.74	3.30	2.92	2.43	-	-	-
6.00	-	-	-	-	-	3.78	3.32	2.89	2.45	2.07	1.68	-
5.00	-	-	-	5.30	4.44	3.81	3.30	2.82	2.39	2.03	1.70	1.40
4.00	-	8.23	6.38	5.28	4.36	3.66	3.11	2.67	2.28	1.94	1.65	1.39
3.00	-	-	5.66	4.69	3.93	3.33	2.86	2.47	2.12	1.82	1.56	1.33
2.00	-	-	4.64a	4.06	3.50	3.02	2.62	2.26	1.95	1.69	1.46	1.25
1.00	-	-	4.41	3.72	3.18	2.76	2.40	2.08	1.80	1.57	1.36	1.18
0.00	-	-	4.32	3.54	3.00	2.59	2.24	1.94	1.69	1.47	1.29	1.12
-1.00	4.05a	5.60	4.39	3.59	2.98	2.54	2.17	1.87	1.62	1.42	1.25	1.10
-2.00	7.37a	6.07	4.59	3.67	3.04	2.58	2.19	1.89	1.66	1.45	1.26	-
-3.00	8.42	6.06	4.71	3.80	3.16	2.68	2.32	2.00	1.72	-	-	-
-4.00	-	-	-	3.74	3.14	2.68	2.30	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL	Hitch	RAIL	+/- 120° - +/- 130° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.63	4.90	3.80a	-	-	-	-	-
7.00	-	-	-	-	4.89	4.33	3.85a	3.34	-	-	-	-
6.00	-	-	-	-	4.92	4.34	3.84	3.35	2.96	2.32a	-	-
5.00	-	-	-	6.76	5.72	4.92	4.33	3.78	3.31	2.93	2.59	2.27a
4.00	-	10.00c	8.10	6.74	5.65	4.82	4.17	3.65	3.22	2.86	2.55	2.28
3.00	-	-	7.52	6.25	5.29	4.55	3.97	3.50	3.10	2.77	2.49	2.23
2.00	-	-	4.64a	5.73	4.94	4.29	3.76	3.33	2.98	2.67	2.41	2.17
1.00	-	-	4.74a	5.46	4.68	4.07	3.59	3.19	2.86	2.58	2.33	2.12
0.00	-	-	6.31a	5.31	4.53	3.94	3.47	3.09	2.78	2.51	2.28	2.07
-1.00	4.05a	6.33a	6.40	5.35	4.51	3.90	3.42	3.04	2.73	2.47	2.24	2.06
-2.00	7.37a	8.23	6.65	5.42	4.56	3.92	3.44	3.05	2.76	2.49	2.25	-
-3.00	9.41b	8.38b	6.64	5.47b	4.64	4.01	3.51	3.12	2.80	-	-	-
-4.00	-	-	-	4.88b	4.41b	3.95	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL	Hitch	RAIL	+/- 130° - +/- 140° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	5.37	4.75	4.19	3.57a	-	-	-	-
6.00	-	-	-	-	5.40	4.76	4.21	3.70	3.27	2.32a	-	-
5.00	-	-	-	7.23a	6.21	5.38	4.73	4.15	3.65	3.24	2.88	2.27a
4.00	-	10.00c	8.87	7.35	6.19	5.29	4.59	4.03	3.57	3.17	2.84	2.55
3.00	-	-	8.29	6.89	5.84	5.03	4.39	3.87	3.45	3.08	2.77	2.50
2.00	-	-	4.64a	6.37	5.48	4.76	4.18	3.71	3.32	2.98	2.70	2.44
1.00	-	-	4.74a	6.10	5.22	4.55	4.01	3.57	3.21	2.89	2.62	2.39
0.00	-	-	6.31a	5.95	5.07	4.41	3.89	3.47	3.12	2.82	2.56	2.34
-1.00	4.05a	6.33a	7.16	5.99	5.06	4.37	3.84	3.41	3.07	2.78	2.53	2.33
-2.00	7.37a	8.94a	7.42	6.06	5.10	4.40	3.86	3.43	3.10	2.80	2.54	-
-3.00	9.41b	8.72b	7.37	6.07	5.15	4.46	3.92	3.48	3.13	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GL	Hitch	RAIL	+/- 140° - +/- 160° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	6.27	5.43	4.75	3.57a	-	-	-	-
6.00	-	-	-	-	6.24	5.45	4.82	4.29	3.80	2.32a	-	-
5.00	-	-	-	7.23a	6.97a	6.23	5.45	4.81	4.26	3.80	3.39	2.27a
4.00	-	10.00c	10.00c	8.61	7.22	6.18a	5.37	4.72	4.18	3.73	3.35	3.01
3.00	-	-	9.91	8.17	6.89	5.92	5.16	4.56	4.06	3.64	3.28	2.96
2.00	-	-	4.64a	7.64	6.53	5.65	4.96	4.39	3.93	3.53	3.20	2.91
1.00	-	-	4.74a	7.33	6.26	5.43	4.78	4.25	3.81	3.44	3.12	2.85
0.00	-	-	6.31a	7.17	6.11	5.29	4.66	4.15	3.72	3.37	3.07	2.80
-1.00	4.05a	6.33a	8.22a	7.24	6.09	5.25	4.60	4.09	3.67	3.33	3.03	2.79
-2.00	7.37a	8.94a	8.89	7.30	6.14	5.28	4.62	4.11	3.70	3.35	3.04	-
-3.00	9.41b	8.72b	8.17b	7.23	6.12b	5.29	4.64	4.12	3.71	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HL	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	6.60	5.75	4.79a	3.57a	-	-	-	-
6.00	-	-	-	-	6.55a	5.79	5.12	4.58	4.04a	2.32a	-	-
5.00	-	-	-	7.23a	6.97a	6.60	5.76	5.12k	4.59	4.10	3.67	2.27a
4.00	-	10.00c	10.00c	9.01	7.64	6.56	5.74	5.06	4.50	4.03	3.63	3.28
3.00	-	-	10.00c	8.63	7.32	6.32	5.54	4.91	4.38	3.94	3.56	3.23
2.00	-	-	4.64a	8.11	6.97	6.06	5.33	4.74	4.25	3.84	3.49	3.18
1.00	-	-	4.74a	7.80	6.71	5.84	5.16	4.60	4.14	3.75	3.41	3.12
0.00	-	-	6.31a	7.66	6.56	5.71	5.04	4.50	4.05	3.68	3.35	3.07
-1.00	4.05a	6.33a	8.22a	7.69a	6.54	5.67	4.99	4.45	4.00	3.64	3.32	3.05a
-2.00	7.37a	8.94a	9.28	7.76	6.59	5.69	5.01	4.46	4.02	3.66	3.33	-
-3.00	9.41b	8.72b	8.17b	7.50b	6.53	5.68b	5.01	4.46	4.01	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	2.00	Lift Point	3.00	Config	4.00	Sector	5.00	Osc Axle	6.00	Safety	7.00	7.50
3AU		Hitch		CANT		+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.58	3.12	2.76	-	-	-	-	-
7.00	-	-	-	-	-	3.11	2.76	2.45	2.08	-	-	-
6.00	-	-	-	-	-	3.13	2.76	2.43	2.09	1.82	1.54	-
5.00	-	-	-	4.32	3.66	3.16	2.75	2.37	2.05	1.79	1.55	1.34
4.00	-	6.53	5.15	4.31	3.59	3.04	2.61	2.26	1.97	1.73	1.52	1.33
3.00	-	-	4.63	3.87	3.27	2.80	2.43	2.12	1.87	1.65	1.46	1.29
2.00	-	-	3.91	3.41	2.96	2.57	2.25	1.98	1.75	1.56	1.39	1.24
1.00	-	-	3.74	3.16	2.72	2.38	2.09	1.85	1.65	1.47	1.32	1.18
0.00	-	-	3.66	3.04	2.59	2.25	1.98	1.76	1.57	1.41	1.27	1.14
-1.00	4.05a	4.66	3.71	3.07	2.58	2.22	1.94	1.71	1.53	1.37	1.24	1.13
-2.00	6.51	4.98	3.86	3.13	2.62	2.24	1.95	1.73	1.55	1.40	1.25	-
-3.00	6.71	4.98	3.94	3.22	2.71	2.32	2.04	1.80	1.59	-	-	-
-4.00	-	-	-	3.18	2.69	2.32	2.02	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU	Hitch	CANT	+/- 10° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.45	2.17	1.95	-	-	-	-	-
7.00	-	-	-	-	-	2.16	1.94	1.74	1.46	-	-	-
6.00	-	-	-	-	-	2.18	1.95	1.72	1.47	1.27	1.05	-
5.00	-	-	-	2.91	2.52	2.21	1.94	1.67	1.43	1.24	1.06	0.90
4.00	-	4.07	3.35	2.90	2.46	2.10	1.81	1.57	1.37	1.19	1.03	0.89
3.00	-	-	2.92	2.53	2.18	1.89	1.65	1.44	1.27	1.11	0.98	0.85
2.00	-	-	2.31	2.13	1.90	1.68	1.48	1.31	1.16	1.03	0.91	0.80
1.00	-	-	2.17	1.91	1.70	1.51	1.34	1.20	1.07	0.95	0.85	0.75
0.00	-	-	2.10	1.80	1.58	1.40	1.24	1.11	1.00	0.89	0.80	0.72
-1.00	3.32	2.59	2.14	1.83	1.57	1.37	1.20	1.07	0.96	0.86	0.77	0.70
-2.00	3.49	2.82	2.27	1.88	1.60	1.39	1.22	1.08	0.98	0.88	0.78	-
-3.00	3.51	2.81	2.34	1.97	1.68	1.45	1.29	1.15	1.02	-	-	-
-4.00	-	-	-	1.93	1.67	1.46	1.28	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	2.00 Lift Point	3.00 Config	4.00 Sector	5.00 Osc Axle	6.00 Safety	7.00 7.50
3CU	Hitch	CANT	+/- 40° - +/- 60° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.26	2.00	1.80	-	-	-	-	-
7.00	-	-	-	-	-	1.99	1.79	1.60	1.34	-	-	-
6.00	-	-	-	-	-	2.02	1.80	1.59	1.35	1.15	0.95	-
5.00	-	-	-	2.70	2.33	2.04	1.79	1.54	1.31	1.13	0.96	0.80
4.00	-	3.77	3.10	2.69	2.27	1.94	1.66	1.43	1.24	1.07	0.93	0.79
3.00	-	-	2.67	2.31	1.99	1.72	1.50	1.31	1.14	1.00	0.87	0.75
2.00	-	-	2.06	1.91	1.71	1.51	1.33	1.18	1.04	0.91	0.80	0.70
1.00	-	-	1.91	1.70	1.51	1.34	1.19	1.06	0.94	0.84	0.74	0.65
0.00	-	-	1.85	1.59	1.39	1.23	1.09	0.98	0.87	0.78	0.69	0.62
-1.00	2.94	2.29	1.89	1.62	1.38	1.20	1.05	0.93	0.83	0.74	0.67	0.60
-2.00	3.12	2.52	2.02	1.67	1.42	1.22	1.07	0.94	0.85	0.76	0.67	-
-3.00	3.14	2.51	2.09	1.75	1.49	1.29	1.14	1.01	0.89	-	-	-
-4.00	-	-	-	1.72	1.48	1.29	1.13	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU	Hitch	CANT	+/- 60° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.06	1.80	1.60	-	-	-	-	-
7.00	-	-	-	-	-	1.80	1.60	1.41	1.15	-	-	-
6.00	-	-	-	-	-	1.82	1.61	1.39	1.16	0.96	0.76	-
5.00	-	-	-	2.53	2.14	1.85	1.59	1.34	1.12	0.94	0.77	0.62
4.00	-	3.72	2.96	2.51	2.08	1.73	1.46	1.23	1.04	0.88	0.74	0.61
3.00	-	-	2.47	2.10	1.77	1.50	1.28	1.10	0.94	0.80	0.68	0.57
2.00	-	-	1.78	1.66	1.47	1.27	1.10	0.96	0.83	0.71	0.61	0.52
1.00	-	-	1.62	1.42	1.24	1.09	0.95	0.83	0.73	0.63	0.54	0.45
0.00	-	-	1.55	1.30	1.11	0.97	0.85	0.74	0.65	0.57	0.49	0.40
-1.00	2.76	2.01	1.60	1.33	1.10	0.93	0.80	0.70	0.61	0.53	0.46	0.38
-2.00	2.97	2.27	1.74	1.38	1.14	0.96	0.82	0.71	0.63	0.55	0.47	-
-3.00	2.99	2.27	1.81	1.48	1.22	1.03	0.90	0.78	0.67	-	-	-
-4.00	-	-	-	1.44	1.21	1.03	0.89	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU	Hitch	CANT	+/- 120° - +/- 130° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.31	2.05	1.84	-	-	-	-	-
7.00	-	-	-	-	-	2.04	1.84	1.64	1.37	-	-	-
6.00	-	-	-	-	-	2.07	1.84	1.63	1.39	1.19	0.98	-
5.00	-	-	-	2.76	2.38	2.09	1.83	1.58	1.35	1.16	0.99	0.82
4.00	-	3.85	3.17	2.75	2.33	1.98	1.71	1.47	1.28	1.11	0.96	0.82
3.00	-	-	2.74	2.37	2.05	1.77	1.54	1.35	1.18	1.03	0.90	0.78
2.00	-	-	2.13	1.98	1.77	1.56	1.38	1.21	1.07	0.95	0.83	0.73
1.00	-	-	1.99	1.76	1.56	1.39	1.24	1.10	0.98	0.87	0.77	0.68
0.00	-	-	1.92	1.65	1.45	1.28	1.14	1.02	0.91	0.81	0.72	0.65
-1.00	3.05	2.38	1.97	1.68	1.43	1.25	1.10	0.97	0.87	0.78	0.70	0.63
-2.00	3.23	2.61	2.09	1.73	1.47	1.27	1.11	0.98	0.89	0.80	0.71	-
-3.00	3.25	2.60	2.16	1.81	1.55	1.33	1.19	1.05	0.93	-	-	-
-4.00	-	-	-	1.78	1.54	1.34	1.18	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU	Hitch	CANT	+/- 130° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.49	2.21	1.98	-	-	-	-	-
7.00	-	-	-	-	-	2.20	1.98	1.77	1.49	-	-	-
6.00	-	-	-	-	-	2.23	1.99	1.76	1.51	1.30	1.08	-
5.00	-	-	-	2.97	2.56	2.25	1.97	1.71	1.47	1.27	1.09	0.92
4.00	-	4.14	3.41	2.95	2.51	2.14	1.85	1.60	1.40	1.22	1.06	0.91
3.00	-	-	2.98	2.58	2.23	1.93	1.68	1.48	1.30	1.14	1.00	0.87
2.00	-	-	2.37	2.18	1.95	1.72	1.52	1.35	1.19	1.06	0.94	0.83
1.00	-	-	2.23	1.97	1.74	1.55	1.38	1.23	1.10	0.98	0.87	0.78
0.00	-	-	2.16	1.86	1.63	1.44	1.28	1.15	1.03	0.92	0.83	0.74
-1.00	3.41	2.67	2.21	1.89	1.61	1.41	1.24	1.10	0.99	0.89	0.80	0.73
-2.00	3.59	2.89	2.33	1.94	1.65	1.43	1.25	1.11	1.01	0.91	0.81	-
-3.00	3.61	2.89	2.40	2.02	1.73	1.49	1.33	1.19	1.05	-	-	-
-4.00	-	-	-	1.98	1.72	1.50	1.32	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU	Hitch	CANT	+/- 140° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.87	2.54	2.28	-	-	-	-	-
7.00	-	-	-	-	-	2.53	2.28	2.04	1.74	-	-	-
6.00	-	-	-	-	-	2.56	2.29	2.03	1.75	1.53	1.29	-
5.00	-	-	-	3.39	2.94	2.58	2.27	1.98	1.71	1.50	1.30	1.12
4.00	-	4.74	3.91	3.38	2.88	2.47	2.15	1.88	1.65	1.44	1.27	1.11
3.00	-	-	3.47	3.00	2.60	2.26	1.98	1.75	1.55	1.37	1.22	1.07
2.00	-	-	2.87	2.61	2.32	2.05	1.82	1.62	1.44	1.29	1.15	1.02
1.00	-	-	2.72	2.39	2.12	1.88	1.68	1.50	1.35	1.21	1.09	0.98
0.00	-	-	2.66	2.28	2.00	1.77	1.58	1.42	1.28	1.15	1.04	0.94
-1.00	4.05a	3.26	2.70	2.31	1.99	1.74	1.54	1.37	1.23	1.12	1.01	0.93
-2.00	4.33	3.49	2.82	2.36	2.02	1.76	1.55	1.39	1.26	1.14	1.02	-
-3.00	4.35	3.48	2.89	2.44	2.10	1.83	1.63	1.46	1.29	-	-	-
-4.00	-	-	-	2.41	2.09	1.83	1.62	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU	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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.89	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	5.23	4.70	4.21	3.57a	-	-	-
6.00	-	-	-	-	-	5.25	4.71	4.23	3.77	3.39	2.32a	-
5.00	-	-	-	6.85	5.94	5.23	4.70	4.18	3.73	3.37	3.03	2.27a
4.00	-	9.57	7.94	6.84	5.91	5.17	4.57	4.08	3.66	3.31	3.00	2.73
3.00	-	-	7.51	6.46	5.63	4.95	4.40	3.95	3.57	3.23	2.95	2.69
2.00	-	-	4.64a	6.07	5.35	4.74	4.24	3.82	3.46	3.15	2.88	2.64
1.00	-	-	4.74a	5.85	5.14	4.57	4.10	3.70	3.37	3.07	2.82	2.59
0.00	-	-	6.31a	5.74	5.03	4.46	4.00	3.62	3.29	3.01	2.77	2.56
-1.00	4.05a	6.33a	6.68	5.77	5.01	4.43	3.96	3.58	3.25	2.98	2.74	2.54
-2.00	7.37a	8.10	6.86	5.82	5.05	4.45	3.98	3.59	3.28	3.00	2.75	-
-3.00	9.41b	8.23	6.84	5.85	5.10	4.50	4.02	3.63	3.30	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	3.00	Config	4.00	Sector	5.00	Osc Axle	6.00	Safety	7.00	7.50
3AL		Hitch		CANT		+/- 10° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	5.80	5.04	4.37	3.57a	-	-	-
6.00	-	-	-	-	-	5.84	5.03	4.43	3.85	3.37	2.32a	-
5.00	-	-	-	7.23a	6.78	5.79	5.04	4.38	3.79	3.33	2.92	2.27a
4.00	-	10.00c	10.00c	8.21	6.75	5.71	4.88	4.22	3.69	3.24	2.87	2.53
3.00	-	-	9.46	7.65	6.34	5.36	4.62	4.02	3.54	3.13	2.79	2.47
2.00	-	-	4.64a	6.96	5.88	5.03	4.36	3.82	3.38	3.01	2.69	2.39
1.00	-	-	4.74a	6.57	5.54	4.75	4.14	3.65	3.24	2.89	2.60	2.32
0.00	-	-	6.31a	6.40	5.34	4.58	3.98	3.51	3.13	2.80	2.52	2.26
-1.00	4.05a	6.33a	7.92	6.45	5.32	4.52	3.92	3.45	3.07	2.75	2.48	2.23
-2.00	7.37a	8.94a	8.20	6.54	5.38	4.56	3.94	3.47	3.10	2.78	2.49	-
-3.00	9.41b	8.72b	8.09	6.52	5.43	4.63	4.01	3.53	3.14	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	3.00	Config	Sector	Osc Axle	Safety	
3BL		Hitch		CANT	+/- 10° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.52	3.89	3.42	-	-	-	-	-
7.00	-	-	-	-	-	3.88	3.41	3.01	2.52	-	-	-
6.00	-	-	-	-	-	3.92	3.43	2.99	2.53	2.14	1.74	-
5.00	-	-	-	5.55	4.63	3.95	3.41	2.91	2.47	2.10	1.76	1.45
4.00	-	8.80	6.73	5.53	4.54	3.79	3.22	2.76	2.36	2.01	1.71	1.44
3.00	-	-	5.99	4.91	4.09	3.46	2.97	2.57	2.20	1.88	1.62	1.38
2.00	-	-	4.64a	4.26	3.65	3.14	2.72	2.35	2.03	1.75	1.51	1.30
1.00	-	-	4.67	3.91	3.33	2.87	2.50	2.16	1.88	1.63	1.41	1.23
0.00	-	-	4.59	3.73	3.14	2.70	2.34	2.02	1.76	1.53	1.34	1.17
-1.00	4.05a	6.02	4.67	3.78	3.12	2.65	2.27	1.95	1.69	1.48	1.30	1.14
-2.00	7.37a	6.52	4.88	3.86	3.18	2.69	2.29	1.97	1.73	1.51	1.31	-
-3.00	9.19	6.51	4.99	4.00	3.30	2.79	2.42	2.09	1.79	-	-	-
-4.00	-	-	-	3.94	3.29	2.80	2.40	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	2.00	Lift Point	2.50	3.00	Config	3.50	4.00	Sector	4.50	5.00	Osc Axle	6.00	Safety	6.50	7.00	7.50
3CL		Hitch			CANT			+/- 40° - +/- 60° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.43	3.78	3.30	-	-	-	-	-
7.00	-	-	-	-	-	3.77	3.29	2.88	2.37	-	-	-
6.00	-	-	-	-	-	3.81	3.31	2.86	2.39	1.99	1.59	-
5.00	-	-	-	5.52	4.54	3.84	3.28	2.78	2.32	1.95	1.61	1.30
4.00	-	9.19	6.82	5.50	4.45	3.67	3.09	2.62	2.20	1.85	1.56	1.29
3.00	-	-	6.01	4.84	3.98	3.33	2.82	2.41	2.04	1.73	1.46	1.23
2.00	-	-	4.64a	4.14	3.51	2.98	2.56	2.18	1.86	1.59	1.36	1.15
1.00	-	-	4.58	3.77	3.16	2.71	2.32	1.98	1.70	1.46	1.25	1.07
0.00	-	-	4.48	3.57	2.97	2.53	2.15	1.84	1.58	1.36	1.18	1.01
-1.00	4.05a	6.07	4.56	3.63	2.95	2.47	2.07	1.76	1.51	1.31	1.13	0.99
-2.00	7.37a	6.63	4.79	3.71	3.01	2.51	2.10	1.78	1.55	1.34	1.15	-
-3.00	9.41b	6.62	4.92	3.86	3.14	2.62	2.23	1.90	1.61	-	-	-
-4.00	-	-	-	3.80	3.12	2.62	2.21	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector				Osc Axle	Safety	
3DL	Hitch	CANT	+/- 60° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.97	3.43	3.02	-	-	-	-	-
7.00	-	-	-	-	-	3.42	3.01	2.65	2.16	-	-	-
6.00	-	-	-	-	-	3.45	3.02	2.63	2.18	1.81	1.45	-
5.00	-	-	-	4.88	4.08	3.49	3.00	2.55	2.12	1.78	1.47	1.18
4.00	-	7.66	5.89	4.86	3.99	3.33	2.82	2.38	2.01	1.69	1.42	1.17
3.00	-	-	5.16	4.26	3.55	3.00	2.56	2.17	1.85	1.57	1.33	1.11
2.00	-	-	4.15	3.62	3.12	2.68	2.29	1.96	1.68	1.43	1.22	1.03
1.00	-	-	3.91	3.28	2.80	2.41	2.06	1.77	1.53	1.31	1.12	0.96
0.00	-	-	3.80	3.10	2.62	2.22	1.90	1.63	1.41	1.22	1.05	0.90
-1.00	4.05a	4.98	3.87	3.15	2.60	2.17	1.83	1.56	1.34	1.16	1.01	0.88
-2.00	7.34	5.44	4.07	3.23	2.65	2.21	1.85	1.58	1.38	1.20	1.02	-
-3.00	7.64	5.43	4.19	3.36	2.77	2.32	1.98	1.70	1.44	-	-	-
-4.00	-	-	-	3.30	2.76	2.32	1.96	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL	Hitch	CANT	+/- 120° - +/- 130° 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.01	4.36	3.80	-	-	-	-	-
7.00	-	-	-	-	-	4.35	3.85	3.42	2.91	-	-	-
6.00	-	-	-	-	-	4.38	3.86	3.39	2.93	2.54	2.13	-
5.00	-	-	-	6.06	5.12	4.41	3.84	3.32	2.87	2.50	2.14	1.82
4.00	-	9.23	7.25	6.04	5.03	4.26	3.66	3.17	2.78	2.42	2.10	1.80
3.00	-	-	6.56	5.46	4.61	3.95	3.42	2.99	2.63	2.30	2.01	1.74
2.00	-	-	4.64a	4.85	4.19	3.64	3.18	2.80	2.47	2.17	1.91	1.67
1.00	-	-	4.74a	4.53	3.89	3.38	2.98	2.64	2.33	2.05	1.81	1.60
0.00	-	-	5.25	4.36	3.71	3.22	2.83	2.51	2.21	1.96	1.73	1.54
-1.00	4.05a	6.33a	5.30	4.40	3.69	3.18	2.77	2.44	2.15	1.90	1.69	1.52
-2.00	7.37a	7.17	5.53	4.48	3.75	3.21	2.79	2.46	2.19	1.94	1.71	-
-3.00	9.41b	7.13	5.61	4.61	3.86	3.30	2.91	2.57	2.24	-	-	-
-4.00	-	-	-	4.55	3.85	3.31	2.89	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL	Hitch	CANT	+/- 130° - +/- 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.10	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	5.17	4.50	3.92	3.34	-	-	-
6.00	-	-	-	-	-	5.21	4.52	3.92	3.36	2.90	2.32a	-
5.00	-	-	-	7.23a	6.14	5.19	4.50	3.84	3.30	2.87	2.47	2.09
4.00	-	10.00c	9.49	7.53	6.12	5.08	4.29	3.68	3.19	2.78	2.42	2.08
3.00	-	-	8.64	6.88	5.63	4.72	4.02	3.48	3.04	2.66	2.32	2.02
2.00	-	-	4.64a	6.15	5.15	4.37	3.76	3.27	2.87	2.53	2.21	1.94
1.00	-	-	4.74a	5.76	4.80	4.08	3.53	3.09	2.73	2.40	2.11	1.86
0.00	-	-	6.31a	5.56	4.59	3.90	3.37	2.96	2.61	2.30	2.03	1.80
-1.00	4.05a	6.33a	6.98	5.62	4.57	3.85	3.30	2.88	2.55	2.24	1.99	1.77
-2.00	7.37a	8.94a	7.37	5.71	4.63	3.88	3.33	2.90	2.59	2.28	2.00	-
-3.00	9.41b	8.72b	7.29	5.76	4.73	3.99	3.43b	3.00	2.64	-	-	-
-4.00	-	-	-	4.88b	4.41b	3.92	3.38	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL	Hitch	CANT	+/- 140° - +/- 160° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	5.38	4.78	4.22	3.57a	-	-	-
6.00	-	-	-	-	-	5.40	4.80	4.27	3.76	3.35	2.32a	-
5.00	-	-	-	7.23a	6.17	5.38	4.76	4.21	3.72	3.32	2.96	2.27a
4.00	-	10.00c	8.62	7.26	6.16	5.30	4.63	4.09	3.64	3.25	2.92	2.63
3.00	-	-	8.07	6.80	5.82	5.05	4.44	3.94	3.52	3.16	2.86	2.58
2.00	-	-	4.64a	6.31	5.48	4.80	4.24	3.78	3.40	3.07	2.78	2.53
1.00	-	-	4.74a	6.05	5.23	4.59	4.08	3.65	3.29	2.98	2.71	2.47
0.00	-	-	6.31a	5.92	5.09	4.46	3.96	3.55	3.20	2.91	2.65	2.43
-1.00	4.05a	6.33a	7.02	5.95	5.08	4.42	3.91	3.50	3.15	2.87	2.62	2.41
-2.00	7.37a	8.83	7.26	6.01	5.12	4.45	3.93	3.51	3.18	2.89	2.63	-
-3.00	9.41b	8.72b	7.21	6.03	5.16	4.50	3.98	3.55	3.21	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL	Hitch	CANT	+/- 160° - +/- 180° Over Fixed 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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	6.13a	5.04a	3.80a	-	-	-	-	-
7.00	-	-	-	-	-	6.60	5.75	4.79a	3.57a	-	-	-
6.00	-	-	-	-	-	6.55a	5.79	5.12	4.58	4.04a	2.32a	-
5.00	-	-	-	7.23a	6.97a	6.60	5.76	5.12k	4.59	4.10	3.67	2.27a
4.00	-	10.00c	10.00c	9.01	7.64	6.56	5.74	5.06	4.50	4.03	3.63	3.28
3.00	-	-	10.00c	8.63	7.32	6.32	5.54	4.91	4.38	3.94	3.56	3.23
2.00	-	-	4.64a	8.11	6.97	6.06	5.33	4.74	4.25	3.84	3.49	3.18
1.00	-	-	4.74a	7.80	6.71	5.84	5.16	4.60	4.14	3.75	3.41	3.12
0.00	-	-	6.31a	7.66	6.56	5.71	5.04	4.50	4.05	3.68	3.35	3.07
-1.00	4.05a	6.33a	8.22a	7.69a	6.54	5.67	4.99	4.45	4.00	3.64	3.32	3.05a
-2.00	7.37a	8.94a	9.28	7.76	6.59	5.69	5.01	4.46	4.02	3.66	3.33	-
-3.00	9.41b	8.72b	8.17b	7.50b	6.53	5.68b	5.01	4.46	4.01	-	-	-
-4.00	-	-	-	4.88b	4.41b	4.03b	3.39b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AU	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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	1.87	1.64	1.46	-	-	-	-	-
7.00	-	-	-	-	1.63	1.45	1.28	1.03	-	-	-	-
6.00	-	-	-	-	1.65	1.46	1.27	1.05	0.86	0.67	-	-
5.00	-	-	-	2.29	1.94	1.68	1.45	1.21	1.00	0.84	0.68	0.53
4.00	-	3.32	2.66	2.27	1.88	1.57	1.32	1.11	0.93	0.78	0.65	0.53
3.00	-	-	2.18	1.87	1.58	1.34	1.14	0.97	0.83	0.70	0.59	0.47
2.00	-	-	1.52	1.44	1.28	1.12	0.97	0.84	0.72	0.61	0.52	0.40
1.00	-	-	1.36	1.21	1.06	0.93	0.82	0.72	0.62	0.54	0.44	0.33
0.00	-	-	1.29	1.09	0.94	0.82	0.72	0.63	0.55	0.47	0.37	0.28
-1.00	2.27	1.67	1.34	1.12	0.93	0.78	0.67	0.58	0.50	0.42	0.33	0.26
-2.00	2.47	1.92	1.47	1.17	0.96	0.81	0.69	0.59	0.53	0.45	0.34	-
-3.00	2.49	1.92	1.55	1.26	1.05	0.88	0.77	0.67	0.57	-	-	-
-4.00	-	-	-	1.22	1.03	0.88	0.76	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AL	Hitch	SUPER CANT	+/- 180°		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
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.62	2.32	2.09	-	-	-	-	-
7.00	-	-	-	-	2.32	2.08	1.86	1.56	-	-	-	-
6.00	-	-	-	-	2.34	2.09	1.84	1.58	1.35	1.12	-	-
5.00	-	-	-	3.13	2.70	2.37	2.08	1.79	1.53	1.33	1.13	0.95
4.00	-	4.37	3.60	3.11	2.64	2.25	1.94	1.68	1.46	1.26	1.10	0.94
3.00	-	-	3.12	2.70	2.33	2.02	1.76	1.54	1.35	1.18	1.03	0.90
2.00	-	-	2.45	2.26	2.02	1.78	1.57	1.39	1.23	1.09	0.96	0.84
1.00	-	-	2.29	2.03	1.80	1.60	1.42	1.27	1.13	1.00	0.89	0.79
0.00	-	-	2.22	1.90	1.67	1.48	1.31	1.17	1.05	0.94	0.84	0.74
-1.00	3.51	2.74	2.27	1.94	1.65	1.44	1.27	1.12	1.00	0.90	0.81	0.72
-2.00	3.71	2.99	2.40	1.99	1.69	1.46	1.28	1.14	1.03	0.92	0.82	-
-3.00	3.73	2.99	2.48	2.08	1.78	1.54	1.37	1.22	1.07	-	-	-
-4.00	-	-	-	2.04	1.77	1.54	1.35	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

**NOTES** SWL = 75% of Tip Load or 87% of Max System Hydraulic Pressure (whichever is the lower). In addition, ISO4305 1.33P + 0.1F. Radius/Height are given in metres. Loads are given in tonnes, and assume that the load is suspended vertically below the bucket pin with no other equipment attached. Loads marked 'b' boom, 'a' arm and 'r' artic are limited by hydraulic capacity (87% of system maximum hydraulic pressure).