

# ROADRAILER

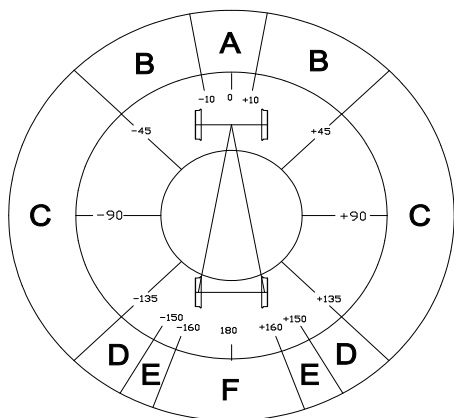
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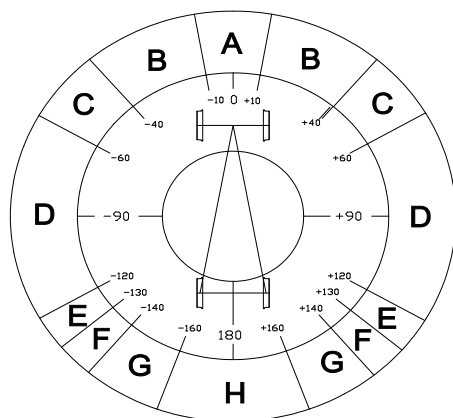
TEL:01823 433398

Oscillating Axle



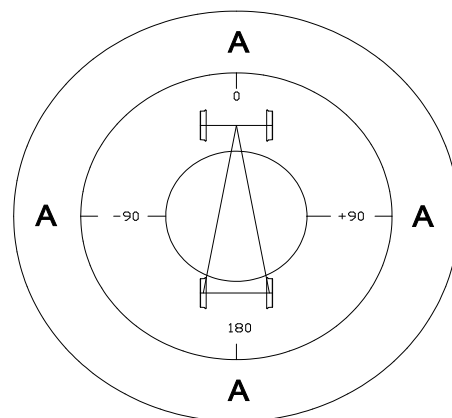
Fixed Axle  
Road Duties

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 Charts

Machine Type:	Komatsu PW160	
Serial Number:	H60267	
Rail Axle Number:	2410	
Network Rail Number:	99709 910054-4	
Equipment:	Boom 2.00m Artic 3.475 Arm 2.1m	
Date:	19th November 2015	
Issue:	1	
Software Versions:		
	Safety Controller	V1.25.5.8
	I/O Controller 1	V1.25.5.8
	I/O Controller 2	V1.25.5.8
	MMI	V1.25.5.7



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. 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, and 'a' arm are limited by hydraulic capacity.

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 PW160	Equipment	2.00m + 3.48m + 2.10m
Issue Date	17/11/2015	Serial No.	11022
System Type	PME RAIL	Additional Info.	Triple

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
AU Road (Minimum Loads)	Hitch	ROAD	+/- 10° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.01	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	6.96	5.55	4.58	3.83	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	6.69	5.41	4.52	3.56k	3.11k	2.73a	2.60a	2.42	2.20	2.09	-
-2.00	-	-	-	11.36	8.44	6.57	5.33	4.44	3.13k	3.11k	2.98	2.65	2.40	2.24	-	-
-3.00	-	12.00	11.50k	11.17k	8.38	6.72	5.45	4.52	3.89	3.37	2.99	2.68	2.61	-	-	-
-4.00	-	-	-	11.61	8.56	6.74	5.46	4.68	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
AU Road (Maximum Loads)	Hitch	ROAD	+/- 10° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.40	3.01	2.66a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.05	5.91	4.98	4.37	3.82	3.42	3.03	2.67	2.36	1.75a
3.00	-	-	-	-	-	7.68	7.08	5.87	5.01	4.28	3.83	3.41	3.02	2.66	2.36	2.08
2.00	-	-	-	-	-	7.52	6.94	5.82b	4.98	4.26k	3.80	3.39	2.98	2.62	2.33	2.07
1.00	-	-	-	-	-	7.92	7.02	5.83	4.94	4.29	3.82	3.38	2.92	2.58	2.30	2.05
0.00	-	-	-	-	-	7.33	6.82	5.74	4.78	4.19	3.71	3.28	2.87	2.52	2.26	2.01
-1.00	-	-	-	-	-	7.92	6.71	5.59	4.77	4.10	3.65	3.17	2.78	2.47	2.20	-
-2.00	-	-	-	12.00	11.20	8.39	6.74	5.59	4.69	4.03	3.54	3.08	2.73	2.43	-	-
-3.00	-	12.00	12.00	12.00	11.04	8.22	6.70	5.49	4.64	3.94	3.42	3.04	2.68	-	-	-
-4.00	-	-	-	11.61	11.30	8.30	6.60	5.42	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
BU Road (Minimum Loads)	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.86	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	2.74	2.32	1.82a	1.74	1.50	1.44	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	2.64	2.26	1.94a	1.70a	1.49	1.31	1.25	-
4.00	-	-	-	-	-	2.95a	3.12k	2.91	2.45	2.14	1.87	1.66	1.46	1.28	1.14	1.11
3.00	-	-	-	-	-	3.98	3.18	2.58	2.28	1.98	1.77	1.57	1.40	1.25	1.10	1.04
2.00	-	-	-	-	-	4.00	3.19	2.57	2.12	1.87	1.67	1.48	1.33	1.20	1.06	1.01
1.00	-	-	-	-	-	3.92	3.12	2.53	2.09	1.80	1.60	1.43	1.30	1.16	1.03	1.00
0.00	-	-	-	-	-	3.86	3.06	2.50	2.05	1.78	1.57	1.39	1.25	1.13	1.03	1.00
-1.00	-	-	-	-	-	3.66	2.94	2.44	2.00	1.75	1.57	1.39	1.26	1.13	1.07	-
-2.00	-	-	-	5.96	4.54	3.56	2.88	2.38	2.02	1.77	1.57	1.38	1.25	1.16	-	-
-3.00	-	12.00	9.26	6.06	4.49	3.66	2.97	2.42	2.07	1.79	1.58	1.42	1.37	-	-	-
-4.00	-	-	-	6.09	4.61	3.68	3.00	2.57	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
BU Road (Maximum Loads)	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.10a	2.73	2.35	2.00	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.08a	2.72	2.36	2.05	1.76	1.49	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.38a	3.11	2.71	2.35	2.06	1.78	1.51	1.30	-
4.00	-	-	-	-	-	4.78	4.23	3.61	3.06	2.64	2.33	2.04	1.78	1.53	1.31	1.11
3.00	-	-	-	-	-	5.07	4.21	3.52	3.01	2.60	2.28	2.03	1.78	1.52	1.30	1.11
2.00	-	-	-	-	-	4.95	4.11	3.44	2.96	2.56	2.26	2.02	1.76	1.49	1.28	1.09
1.00	-	-	-	-	-	4.71	4.09	3.36	2.92	2.56	2.24	1.97	1.70	1.44	1.23	1.06
0.00	-	-	-	-	-	4.12	3.83	3.27	2.75	2.43	2.13	1.88	1.61	1.38	1.20	1.03
-1.00	-	-	-	-	-	4.33	3.70	3.15	2.69	2.35	2.06	1.76	1.51	1.31	1.14	-
-2.00	-	-	-	6.53	5.89	4.55	3.72	3.12	2.63	2.24	1.96	1.68	1.46	1.27	-	-
-3.00	-	12.00	10.55	7.31	5.84	4.46	3.68	3.04	2.57	2.19	1.85	1.63	1.42	-	-	-
-4.00	-	-	-	6.09	5.96	4.49	3.61	2.98	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
CU Road (Minimum Loads)	Hitch	ROAD	+/- 45° - +/- 135°		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.86	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	2.74	2.32	1.82a	1.74	1.50	1.44	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	2.64	2.26	1.94a	1.70a	1.49	1.31	1.25	-
4.00	-	-	-	-	-	2.95a	3.12k	2.91	2.45	2.14	1.87	1.66	1.46	1.28	1.14	1.11
3.00	-	-	-	-	-	3.98	3.18	2.58	2.28	1.98	1.77	1.57	1.40	1.25	1.10	1.04
2.00	-	-	-	-	-	4.00	3.19	2.57	2.12	1.87	1.67	1.48	1.33	1.20	1.06	1.01
1.00	-	-	-	-	-	3.92	3.12	2.53	2.09	1.80	1.60	1.43	1.30	1.16	1.03	1.00
0.00	-	-	-	-	-	3.86	3.06	2.50	2.05	1.78	1.57	1.39	1.25	1.13	1.03	1.00
-1.00	-	-	-	-	-	3.66	2.94	2.44	2.00	1.75	1.57	1.39	1.26	1.13	1.07	-
-2.00	-	-	-	5.96	4.54	3.56	2.88	2.38	2.02	1.77	1.57	1.39	1.25	1.16	-	-
-3.00	-	12.00	9.26	6.06	4.49	3.66	2.97	2.42	2.07	1.79	1.58	1.42	1.37	-	-	-
-4.00	-	-	-	6.09	4.61	3.68	3.00	2.57	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
CU Road (Maximum Loads)	Hitch	ROAD	+/- 45° - +/- 135°		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.10a	2.73	2.35	2.00	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.08a	2.72	2.36	2.05	1.76	1.49	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.38a	3.11	2.71	2.35	2.06	1.78	1.51	1.30	-
4.00	-	-	-	-	-	4.78	4.23	3.61	3.06	2.64	2.33	2.04	1.78	1.53	1.31	1.11
3.00	-	-	-	-	-	5.07	4.21	3.52	3.01	2.60	2.28	2.03	1.78	1.52	1.30	1.11
2.00	-	-	-	-	-	4.95	4.11	3.44	2.96	2.56	2.26	2.02	1.76	1.49	1.28	1.09
1.00	-	-	-	-	-	4.71	4.09	3.36	2.92	2.56	2.24	1.97	1.70	1.44	1.23	1.06
0.00	-	-	-	-	-	4.12	3.83	3.27	2.75	2.43	2.13	1.88	1.61	1.38	1.20	1.03
-1.00	-	-	-	-	-	4.33	3.70	3.15	2.69	2.35	2.06	1.76	1.51	1.31	1.14	-
-2.00	-	-	-	6.53	5.89	4.55	3.72	3.12	2.63	2.24	1.96	1.68	1.46	1.27	-	-
-3.00	-	12.00	10.55	7.31	5.84	4.46	3.68	3.04	2.57	2.19	1.85	1.63	1.42	-	-	-
-4.00	-	-	-	6.09	5.96	4.49	3.61	2.98	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
DU Road (Minimum Loads)	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.86	7.07	5.72b	4.91	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	8.54	6.90	5.78	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	10.86	8.42	6.57a	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	10.79	8.58	6.96	5.79	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	11.00	8.61	6.96	5.81a	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
DU Road (Maximum Loads)	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.54b	7.28	6.15	4.58a	4.54	4.15	3.69	3.33	2.95	1.75a
3.00	-	-	-	-	-	7.79b	8.02b	7.28b	6.12	5.31b	4.61k	4.17	3.74	3.32	2.95	2.40a
2.00	-	-	-	-	-	7.61b	7.86b	7.19b	6.04	5.24	4.60	4.16	3.71	3.28	2.95	2.65
1.00	-	-	-	-	-	8.85	8.49	7.23	6.15	5.30	4.67	4.14	3.65	3.27	2.92	2.62
0.00	-	-	-	-	-	9.10	8.66	7.09	5.98	5.26	4.65	4.10	3.63	3.21	2.87	2.31a
-1.00	-	-	-	-	-	10.14	8.54	7.09	6.02	5.18	4.50	3.98	3.52	3.16	2.83	-
-2.00	-	-	-	12.00	12.00	10.77	8.59	7.02	5.93	5.10	4.37	3.86	3.45	3.10	-	-
-3.00	-	12.00	12.00	12.00	12.00	10.56	8.55	6.98	5.85	5.01	4.36	3.80	3.43	-	-	-
-4.00	-	-	-	12.00	12.00	10.66	8.43	6.90	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
EU Road (Minimum Loads)	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.97b	7.10b	5.72b	5.24b	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	11.00k	9.02b	7.40b	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	10.90k	10.98k	6.57a	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	10.89k	9.54a	7.25a	5.82a	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	11.74b	9.59b	7.96b	5.81a	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
EU Road (Maximum Loads)	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.60b	7.65b	6.29a	4.58a	4.58a	4.32a	4.03a	3.70a	3.07a	1.75a
3.00	-	-	-	-	-	7.79b	8.09b	8.16b	8.02b	6.82b	6.03b	4.94b	4.89k	4.40a	3.71a	2.40a
2.00	-	-	-	-	-	7.61b	7.96b	8.05b	7.95b	7.46b	6.58b	5.86b	4.94b	4.93b	4.13a	2.72a
1.00	-	-	-	-	-	8.87b	8.76b	8.71b	8.26b	7.57b	6.79b	6.10b	5.56b	4.98k	4.43a	2.94a
0.00	-	-	-	-	-	10.86b	10.47b	9.56b	8.75b	7.67b	6.88b	6.18b	5.59b	4.91a	4.45a	2.31a
-1.00	-	-	-	-	-	12.00	11.94b	10.27b	8.85b	7.79b	6.96b	6.17b	5.53b	4.80a	3.78a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.44b	8.91b	7.82b	6.91b	6.14b	5.16k	4.39a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.26a	8.82b	7.40b	6.39b	4.96b	3.98a	-	-	-
-4.00	-	-	-	12.00	12.00	11.43b	9.39b	7.64a	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
FU Road (Minimum Loads)	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.97b	7.10b	5.72b	5.24b	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	11.00k	9.02b	7.40b	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	10.90k	10.98k	6.57a	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	10.89k	9.54a	7.25a	5.82a	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	11.74b	9.59b	7.96b	5.81a	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
FU Road (Maximum Loads)	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.60b	7.65b	6.29a	4.58a	4.58a	4.32a	4.03a	3.70a	3.07a	1.75a
3.00	-	-	-	-	-	7.79b	8.09b	8.16b	8.02b	6.82b	6.03b	4.94b	4.89k	4.40a	3.71a	2.40a
2.00	-	-	-	-	-	7.61b	7.96b	8.05b	7.95b	7.46b	6.58b	5.86b	4.94b	4.93b	4.13a	2.72a
1.00	-	-	-	-	-	8.87b	8.76b	8.71b	8.26b	7.57b	6.79b	6.10b	5.56b	4.98k	4.43a	2.94a
0.00	-	-	-	-	-	10.86b	10.47b	9.56b	8.75b	7.67b	6.88b	6.18b	5.59b	4.91a	4.45a	2.31a
-1.00	-	-	-	-	-	12.00	11.94b	10.27b	8.85b	7.79b	6.96b	6.17b	5.53b	4.80a	3.78a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.44b	8.91b	7.82b	6.91b	6.14b	5.16k	4.39a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.26a	8.82b	7.40b	6.39b	4.96b	3.98a	-	-	-
-4.00	-	-	-	12.00	12.00	11.43b	9.39b	7.64a	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
AL Road (Minimum Loads)	Hitch	ROAD	+/- 10° Over Osc End		71%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.97b	7.10b	5.72b	5.24b	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	11.00k	9.02b	7.36	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	10.90k	10.98k	6.57a	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	10.89k	9.54a	7.25a	5.82a	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	11.74b	9.59b	7.96b	5.81a	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
AL Road (Maximum Loads)	Hitch	ROAD	+/- 10° Over Osc End		71%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.60b	7.65b	6.29a	4.58a	4.58a	4.32a	4.01	3.57	3.07a	1.75a
3.00	-	-	-	-	-	7.79b	8.09b	8.16b	7.50	6.22	5.32	4.64	4.08	3.57	3.13	2.40a
2.00	-	-	-	-	-	7.61b	7.96b	8.04b	7.44	6.30	5.33	4.59	4.09	3.54	3.14	2.72a
1.00	-	-	-	-	-	8.87b	8.76b	8.71b	7.50	6.25	5.32	4.61	4.03	3.54a	3.07	2.74
0.00	-	-	-	-	-	10.86b	10.47b	9.43b	7.62	6.31	5.29	4.58	3.99	3.45	3.04	2.31a
-1.00	-	-	-	-	-	12.00	11.94b	9.71	7.68	6.27	5.19	4.40	3.89	3.38	2.99	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	9.57	7.54	6.14	5.07	4.36	3.80	3.34	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	9.53	7.45	6.05	5.07	4.27	3.77	-	-	-
-4.00	-	-	-	12.00	12.00	11.43b	9.39b	7.64a	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
BL Road (Minimum Loads)	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.02	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	6.96	5.55	4.58	3.83	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	6.69	5.41	4.52	3.56k	3.11k	2.73a	2.60a	2.42	2.20	2.09	-
-2.00	-	-	-	11.36	8.44	6.57	5.33	4.44	3.13k	3.11k	2.98	2.65	2.40	2.24	-	-
-3.00	-	12.00	11.50k	11.17k	8.38	6.72	5.45	4.52	3.89	3.37	2.99	2.68	2.61	-	-	-
-4.00	-	-	-	11.61	8.56	6.74	5.46	4.68	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
BL Road (Maximum Loads)	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.40	3.01	2.66a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.05	5.91	4.98	4.37	3.82	3.42	3.03	2.67	2.36	1.75a
3.00	-	-	-	-	-	7.68	7.08	5.87	5.01	4.28	3.83	3.41	3.02	2.66	2.36	2.08
2.00	-	-	-	-	-	7.52	6.94	5.82b	4.98	4.26k	3.80	3.39	2.98	2.62	2.33	2.07
1.00	-	-	-	-	-	7.92	7.03	5.83	4.94	4.29	3.82	3.38	2.92	2.58	2.30	2.05
0.00	-	-	-	-	-	7.33	6.82	5.74	4.78	4.19	3.72	3.28	2.87	2.52	2.26	2.01
-1.00	-	-	-	-	-	7.92	6.71	5.59	4.77	4.10	3.65	3.17	2.78	2.47	2.20	-
-2.00	-	-	-	12.00	11.20	8.39	6.74	5.59	4.69	4.03	3.54	3.08	2.73	2.43	-	-
-3.00	-	12.00	12.00	12.00	11.04	8.22	6.70	5.49	4.64	3.94	3.42	3.04	2.68	-	-	-
-4.00	-	-	-	11.61	11.30	8.30	6.60	5.42	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
CL Road (Minimum Loads)	Hitch	ROAD	+/- 45° - +/- 135°		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.02	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	6.96	5.55	4.58	3.83	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	6.69	5.41	4.52	3.56k	3.11k	2.73a	2.60a	2.42	2.20	2.09	-
-2.00	-	-	-	11.36	8.44	6.57	5.33	4.44	3.13k	3.11k	2.98	2.65	2.40	2.24	-	-
-3.00	-	12.00	11.50k	11.17k	8.38	6.72	5.45	4.52	3.89	3.37	2.99	2.68	2.61	-	-	-
-4.00	-	-	-	11.61	8.56	6.74	5.46	4.68	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
CL Road (Maximum Loads)	Hitch	ROAD	+/- 45° - +/- 135°		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.40	3.01	2.66a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.05	5.91	4.98	4.37	3.82	3.42	3.03	2.67	2.36	1.75a
3.00	-	-	-	-	-	7.68	7.08	5.87	5.01	4.28	3.83	3.41	3.02	2.66	2.36	2.08
2.00	-	-	-	-	-	7.52	6.94	5.82b	4.98	4.26k	3.80	3.39	2.98	2.62	2.33	2.07
1.00	-	-	-	-	-	7.92	7.03	5.83	4.94	4.29	3.82	3.38	2.92	2.58	2.30	2.05
0.00	-	-	-	-	-	7.33	6.82	5.74	4.78	4.19	3.72	3.28	2.87	2.52	2.26	2.01
-1.00	-	-	-	-	-	7.92	6.71	5.59	4.77	4.10	3.65	3.17	2.78	2.47	2.20	-
-2.00	-	-	-	12.00	11.20	8.39	6.74	5.59	4.69	4.03	3.54	3.08	2.73	2.43	-	-
-3.00	-	12.00	12.00	12.00	11.04	8.22	6.70	5.49	4.64	3.94	3.42	3.04	2.68	-	-	-
-4.00	-	-	-	11.61	11.30	8.30	6.60	5.42	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
DL Road (Minimum Loads)	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	7.54	6.13	5.12	4.35	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	7.28	5.99	5.07	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	9.00	7.17	5.92	5.00	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	8.95	7.31	6.03	5.08	4.34k	3.59k	3.11k	3.11	3.02	-	-	-
-4.00	-	-	-	11.98	9.12	7.33	6.04	5.22	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
DL Road (Maximum Loads)	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.37a	3.01a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.22b	6.42b	5.46	4.49k	4.25	3.80	3.39	3.05	2.70	1.75a
3.00	-	-	-	-	-	7.75b	7.40b	6.34	5.49b	4.75	4.26	3.81	3.40	3.03	2.70	2.40a
2.00	-	-	-	-	-	7.61b	7.51	6.31b	5.38	4.74	4.22b	3.81b	3.38	3.01	2.68	2.42
1.00	-	-	-	-	-	8.18	7.59	6.38	5.41	4.77b	4.23	3.78a	3.31	2.97	2.65	2.39
0.00	-	-	-	-	-	7.90	7.39	6.29	5.30	4.68	4.17	3.70	3.28	2.91	2.61	2.31a
-1.00	-	-	-	-	-	8.50	7.29	6.16	5.30	4.61	4.12	3.61	3.19	2.86	2.57	-
-2.00	-	-	-	12.00	11.61	8.95	7.33	6.10	5.22	4.53	3.90	3.53	3.15	2.80	-	-
-3.00	-	12.00	12.00	12.00	11.46	8.79	7.29	6.06	5.18	4.45	3.90	3.48a	3.10	-	-	-
-4.00	-	-	-	11.98	11.70	8.87	7.19	5.99	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
EL Road (Minimum Loads)	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.08	6.58	5.51	4.69	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	7.81	6.43	5.46	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	9.65	7.70	6.36	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	9.59	7.84	6.48	5.47	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	9.77	7.86	6.48	5.61	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
EL Road (Maximum Loads)	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.35b	6.82	5.81	4.58a	4.47	4.03	3.63	3.26	2.90	1.75a
3.00	-	-	-	-	-	7.79b	7.84b	6.79	5.82	5.09	4.49	4.06	3.64	3.26	2.91	2.40a
2.00	-	-	-	-	-	7.61b	7.85b	6.71	5.77	5.05	4.43	4.05	3.61	3.23a	2.90	2.62
1.00	-	-	-	-	-	8.66b	8.07b	6.73	5.80	5.07	4.53	4.05	3.56a	3.20	2.87	2.59
0.00	-	-	-	-	-	8.45	7.92	6.73	5.68	5.02	4.48	3.97	3.54	3.14	2.82	2.31a
-1.00	-	-	-	-	-	9.10	7.81	6.60	5.69	4.94	4.33k	3.89a	3.44	3.09	2.78	-
-2.00	-	-	-	12.00	12.00	9.59	7.85	6.55	5.60	4.87	4.21	3.75	3.37	3.04	-	-
-3.00	-	12.00	12.00	12.00	12.00	9.42	7.82	6.51	5.56	4.79	4.20	3.68	3.35	-	-	-
-4.00	-	-	-	12.00	12.00	9.50	7.72	6.43	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
FL Road (Minimum Loads)	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30a	2.20a	2.17a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.18a	1.96a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.01a	3.05a	2.39a	1.82a	1.76a	1.78a	1.81a	-	-
5.00	-	-	-	-	-	2.74a	2.86a	2.96a	3.06a	3.18a	1.94a	1.70a	1.70a	1.71a	1.72a	-
4.00	-	-	-	-	-	2.95a	3.12k	3.13k	3.13k	3.24k	2.88b	1.73a	1.70a	1.70a	1.69a	1.75a
3.00	-	-	-	-	-	6.10b	4.95b	3.56k	3.13k	3.12k	2.88b	1.72a	1.73a	1.71a	1.71a	1.71a
2.00	-	-	-	-	-	5.79b	4.85b	4.15b	3.23k	3.12k	2.79a	1.84a	1.79a	1.78a	1.80a	1.78a
1.00	-	-	-	-	-	5.97b	4.82b	4.16b	3.11k	3.11k	3.11k	2.00a	1.91a	1.91a	1.90a	1.83a
0.00	-	-	-	-	-	8.86	7.07	5.72b	4.91	3.12k	2.63a	2.22a	2.17a	2.06a	1.95a	1.92a
-1.00	-	-	-	-	-	8.54	6.90	5.78	3.56k	3.11k	2.73a	2.60a	2.46a	2.23a	2.19a	-
-2.00	-	-	-	11.47k	10.86	8.42	6.57a	5.13a	3.13k	3.11k	3.15k	3.00a	2.71a	2.48a	-	-
-3.00	-	12.00	11.50k	11.17k	10.79	8.58	6.96	5.79	4.34k	3.59k	3.11k	3.19k	3.06a	-	-	-
-4.00	-	-	-	12.00	11.00	8.61	6.96	5.81a	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
FL Road (Maximum Loads)	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.97a	2.29a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.54a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.03a	3.21a	3.25a	3.24a	3.18a	2.91a	2.06a	-	-
5.00	-	-	-	-	-	2.97a	3.28a	3.47a	3.58a	3.61a	3.62a	3.57a	3.42a	3.05a	2.30a	-
4.00	-	-	-	-	-	7.18b	7.54b	7.28	6.15	4.58a	4.54	4.15	3.69	3.33	2.95	1.75a
3.00	-	-	-	-	-	7.79b	8.02b	7.28b	6.12	5.31b	4.61k	4.17	3.74	3.32	2.95	2.40a
2.00	-	-	-	-	-	7.61b	7.86b	7.19b	6.04	5.24	4.60	4.16	3.71	3.28	2.95	2.65
1.00	-	-	-	-	-	8.85	8.49	7.23	6.15	5.30	4.67	4.14	3.65	3.27	2.92	2.62
0.00	-	-	-	-	-	9.10	8.66	7.09	5.98	5.26	4.65	4.10	3.63	3.21	2.87	2.31a
-1.00	-	-	-	-	-	10.14	8.54	7.09	6.02	5.18	4.50	3.98	3.52	3.16	2.83	-
-2.00	-	-	-	12.00	12.00	10.77	8.59	7.02	5.93	5.10	4.37	3.86	3.45	3.10	-	-
-3.00	-	12.00	12.00	12.00	12.00	10.56	8.55	6.98	5.85	5.01	4.36	3.80	3.43	-	-	-
-4.00	-	-	-	12.00	12.00	10.66	8.43	6.90	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 10° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	2.89	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	6.37	5.14	4.27	3.59	3.11k	2.57a	2.25a	2.19a	2.07a	1.93	1.90
-1.00	-	-	-	-	-	6.08	4.97	4.22	3.54	3.12k	2.71a	2.53	2.29	2.10	1.97	-
-2.00	-	-	-	10.28	7.50	6.03	4.95	4.19	3.32k	3.13	2.80	2.53	2.30	2.15	-	-
-3.00	-	11.58k	10.99k	9.84	7.49	5.96	4.93	4.16	3.62	3.17	2.84	2.56	2.54	-	-	-
-4.00	-	-	-	11.05	8.08	6.39	5.29	4.52	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 10° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.82	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.59a	3.22	2.85	2.52	2.25	-
4.00	-	-	-	-	-	6.81b	6.42	5.41	4.38b	4.04a	3.64	3.24	2.88	2.54	2.26	1.78a
3.00	-	-	-	-	-	7.32	6.47	5.42	4.66	4.09	3.61	3.22	2.87	2.53	2.25	1.99
2.00	-	-	-	-	-	7.24b	6.43	5.38	4.64	4.01	3.59	3.22	2.83	2.51	2.23	1.98
1.00	-	-	-	-	-	7.36	6.44	5.37	4.61	3.98	3.58	3.17	2.77	2.47	2.19	1.96
0.00	-	-	-	-	-	6.60	6.30	5.30	4.48	3.96	3.50	3.10	2.71	2.42	2.14	1.93
-1.00	-	-	-	-	-	7.15	6.20	5.20	4.42	3.89	3.42	2.99	2.64	2.35	2.10	-
-2.00	-	-	-	11.34	9.78	7.54	6.11	5.11	4.38	3.78	3.29	2.89	2.57	2.32	-	-
-3.00	-	12.00	12.00	12.00	9.85	7.50	6.15	5.05	4.30	3.70	3.22	2.86	2.56	-	-	-
-4.00	-	-	-	11.12	8.29	6.53	5.36	4.52	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 10° - +/- 40° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.17	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.94	1.70	1.53	-	-	-	-
6.00	-	-	-	-	-	-	-	2.73	2.27	1.95	1.70	1.45	1.26	1.21	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.58	2.21	1.92	1.66	1.44	1.25	1.09	1.05	-
4.00	-	-	-	-	-	3.16a	2.91	2.48	2.13	1.80	1.55	1.38	1.20	1.07	0.94	0.92
3.00	-	-	-	-	-	3.36	2.68	2.15	1.93	1.71	1.51	1.33	1.15	1.03	0.91	0.86
2.00	-	-	-	-	-	3.31	2.63	2.12	1.78	1.55	1.43	1.27	1.12	0.98	0.88	0.82
1.00	-	-	-	-	-	3.21	2.61	2.13	1.71	1.51	1.34	1.21	1.07	0.96	0.85	0.82
0.00	-	-	-	-	-	3.22	2.55	2.07	1.69	1.47	1.31	1.17	1.05	0.93	0.85	0.83
-1.00	-	-	-	-	-	2.98	2.41	2.01	1.64	1.45	1.28	1.15	1.02	0.93	0.87	-
-2.00	-	-	-	4.91	3.64	2.93	2.37	1.99	1.66	1.44	1.28	1.14	1.03	0.96	-	-
-3.00	-	11.58k	6.48	4.69	3.61	2.88	2.35	1.97	1.70	1.48	1.31	1.17	1.17	-	-	-
-4.00	-	-	-	5.26	3.94	3.14	2.60	2.20	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 10° - +/- 40° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.84a	2.65	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.65	2.29	1.99	1.68	-	-	-	-
6.00	-	-	-	-	-	-	-	2.73	2.61	2.30	1.99	1.73	1.47	1.24	-	-
5.00	-	-	-	-	-	2.96a	3.24	2.98	2.64	2.28	1.99	1.74	1.50	1.27	1.09	-
4.00	-	-	-	-	-	3.96	3.54	2.98	2.57	2.22	1.95	1.72	1.50	1.28	1.09	0.92
3.00	-	-	-	-	-	4.05	3.46	2.90	2.45	2.19	1.92	1.71	1.50	1.28	1.09	0.92
2.00	-	-	-	-	-	4.11	3.40	2.85	2.45	2.15	1.91	1.70	1.48	1.24	1.07	0.90
1.00	-	-	-	-	-	4.00	3.38	2.84	2.46	2.13	1.89	1.64	1.40	1.21	1.02	0.88
0.00	-	-	-	-	-	3.35	3.21	2.73	2.31	2.06	1.80	1.58	1.35	1.15	0.99	0.85
-1.00	-	-	-	-	-	3.51	3.11	2.63	2.23	1.97	1.72	1.47	1.26	1.09	0.94	-
-2.00	-	-	-	5.36	4.68	3.70	3.03	2.56	2.20	1.87	1.60	1.37	1.19	1.05	-	-
-3.00	-	12.00	7.89	6.15	4.73	3.69	3.06	2.50	2.10	1.79	1.53	1.34	1.18	-	-	-
-4.00	-	-	-	5.27	4.02	3.19	2.63	2.20	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.02	1.94	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.05	1.72	1.49	1.33	-	-	-	-
6.00	-	-	-	-	-	-	-	2.46	2.03	1.73	1.49	1.26	1.08	1.03	-	-
5.00	-	-	-	-	-	2.75a	2.75	2.32	1.96	1.69	1.45	1.25	1.07	0.92	0.88	-
4.00	-	-	-	-	-	3.15	2.60	2.20	1.88	1.57	1.34	1.18	1.01	0.90	0.78	0.76
3.00	-	-	-	-	-	3.02	2.38	1.87	1.67	1.48	1.30	1.13	0.97	0.85	0.75	0.70
2.00	-	-	-	-	-	2.98	2.33	1.84	1.52	1.32	1.21	1.07	0.93	0.81	0.72	0.67
1.00	-	-	-	-	-	2.87	2.30	1.85	1.46	1.27	1.12	1.01	0.88	0.78	0.69	0.66
0.00	-	-	-	-	-	2.89	2.24	1.79	1.43	1.24	1.09	0.97	0.86	0.76	0.68	0.67
-1.00	-	-	-	-	-	2.64	2.10	1.73	1.38	1.22	1.06	0.95	0.84	0.75	0.70	-
-2.00	-	-	-	4.48	3.26	2.59	2.06	1.70	1.40	1.21	1.06	0.94	0.84	0.78	-	-
-3.00	-	11.58k	6.03	4.27	3.22	2.54	2.04	1.69	1.44	1.25	1.09	0.97	0.97	-	-	-
-4.00	-	-	-	4.82	3.55	2.79	2.28	1.91	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.69	2.39	1.99	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.39	2.05	1.77	1.47	-	-	-	-
6.00	-	-	-	-	-	-	-	2.46	2.35	2.06	1.77	1.53	1.28	1.06	-	-
5.00	-	-	-	-	-	2.96a	3.11	2.71	2.38	2.04	1.76	1.53	1.31	1.09	0.92	-
4.00	-	-	-	-	-	3.71	3.23	2.69	2.30	1.97	1.72	1.52	1.31	1.10	0.92	0.76
3.00	-	-	-	-	-	3.69	3.13	2.61	2.19	1.95	1.70	1.50	1.31	1.10	0.92	0.76
2.00	-	-	-	-	-	3.75	3.07	2.56	2.18	1.91	1.68	1.50	1.28	1.06	0.90	0.74
1.00	-	-	-	-	-	3.65	3.06	2.54	2.19	1.89	1.66	1.43	1.21	1.03	0.85	0.71
0.00	-	-	-	-	-	3.01	2.88	2.43	2.05	1.82	1.57	1.37	1.15	0.97	0.82	0.69
-1.00	-	-	-	-	-	3.15	2.77	2.33	1.96	1.72	1.49	1.26	1.06	0.90	0.77	-
-2.00	-	-	-	4.92	4.25	3.32	2.69	2.26	1.92	1.62	1.37	1.16	0.99	0.87	-	-
-3.00	-	12.00	7.47	5.70	4.30	3.31	2.72	2.20	1.83	1.54	1.30	1.13	0.98	-	-	-
-4.00	-	-	-	4.84	3.63	2.84	2.32	1.92	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.02	1.94	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.05	1.72	1.49	1.33	-	-	-	-
6.00	-	-	-	-	-	-	-	2.46	2.03	1.73	1.49	1.26	1.08	1.03	-	-
5.00	-	-	-	-	-	2.75a	2.75	2.32	1.96	1.69	1.45	1.25	1.07	0.92	0.88	-
4.00	-	-	-	-	-	3.15	2.60	2.20	1.88	1.57	1.34	1.18	1.01	0.90	0.78	0.76
3.00	-	-	-	-	-	3.02	2.38	1.87	1.67	1.48	1.30	1.13	0.97	0.85	0.75	0.70
2.00	-	-	-	-	-	2.98	2.33	1.84	1.52	1.32	1.21	1.07	0.93	0.81	0.72	0.67
1.00	-	-	-	-	-	2.87	2.30	1.85	1.46	1.27	1.12	1.01	0.88	0.78	0.69	0.66
0.00	-	-	-	-	-	2.89	2.24	1.79	1.43	1.24	1.09	0.97	0.86	0.76	0.68	0.67
-1.00	-	-	-	-	-	2.64	2.10	1.73	1.38	1.22	1.06	0.95	0.84	0.75	0.70	-
-2.00	-	-	-	4.48	3.26	2.59	2.06	1.70	1.40	1.21	1.06	0.94	0.84	0.78	-	-
-3.00	-	11.58k	6.03	4.27	3.22	2.54	2.04	1.69	1.44	1.25	1.09	0.97	0.97	-	-	-
-4.00	-	-	-	4.82	3.55	2.79	2.28	1.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.69	2.39	1.99	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.39	2.05	1.77	1.47	-	-	-	-
6.00	-	-	-	-	-	-	-	2.46	2.35	2.06	1.77	1.53	1.28	1.06	-	-
5.00	-	-	-	-	-	2.96a	3.11	2.71	2.38	2.04	1.76	1.53	1.31	1.09	0.92	-
4.00	-	-	-	-	-	3.71	3.23	2.69	2.30	1.97	1.72	1.52	1.31	1.10	0.92	0.76
3.00	-	-	-	-	-	3.69	3.13	2.61	2.19	1.95	1.70	1.50	1.31	1.10	0.92	0.76
2.00	-	-	-	-	-	3.75	3.07	2.56	2.18	1.91	1.68	1.50	1.28	1.06	0.90	0.74
1.00	-	-	-	-	-	3.65	3.06	2.54	2.19	1.89	1.66	1.43	1.21	1.03	0.85	0.71
0.00	-	-	-	-	-	3.01	2.88	2.43	2.05	1.82	1.57	1.37	1.15	0.97	0.82	0.69
-1.00	-	-	-	-	-	3.15	2.77	2.33	1.96	1.72	1.49	1.26	1.06	0.90	0.77	-
-2.00	-	-	-	4.92	4.25	3.32	2.69	2.26	1.92	1.62	1.37	1.16	0.99	0.87	-	-
-3.00	-	12.00	7.47	5.70	4.30	3.31	2.72	2.20	1.83	1.54	1.30	1.13	0.98	-	-	-
-4.00	-	-	-	4.84	3.63	2.84	2.32	1.92	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.17	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.94	1.70	1.53	-	-	-	-
6.00	-	-	-	-	-	-	-	2.73	2.27	1.95	1.70	1.45	1.26	1.21	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.58	2.21	1.92	1.66	1.44	1.25	1.09	1.05	-
4.00	-	-	-	-	-	3.16a	2.91	2.48	2.13	1.80	1.55	1.38	1.20	1.07	0.94	0.92
3.00	-	-	-	-	-	3.36	2.68	2.15	1.93	1.71	1.51	1.33	1.15	1.03	0.91	0.86
2.00	-	-	-	-	-	3.31	2.63	2.12	1.78	1.55	1.43	1.27	1.12	0.98	0.88	0.82
1.00	-	-	-	-	-	3.21	2.61	2.13	1.71	1.51	1.34	1.21	1.07	0.96	0.85	0.82
0.00	-	-	-	-	-	3.22	2.55	2.07	1.69	1.47	1.30	1.17	1.05	0.93	0.85	0.83
-1.00	-	-	-	-	-	2.98	2.41	2.01	1.64	1.45	1.28	1.15	1.02	0.93	0.87	-
-2.00	-	-	-	4.91	3.64	2.93	2.37	1.99	1.66	1.44	1.28	1.14	1.03	0.96	-	-
-3.00	-	11.58k	6.48	4.69	3.61	2.88	2.35	1.97	1.70	1.48	1.31	1.17	1.17	-	-	-
-4.00	-	-	-	5.26	3.94	3.14	2.60	2.20	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.84a	2.65	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.65	2.29	1.99	1.68	-	-	-	-
6.00	-	-	-	-	-	-	-	2.73	2.61	2.30	1.99	1.73	1.47	1.24	-	-
5.00	-	-	-	-	-	2.96a	3.24	2.98	2.64	2.28	1.99	1.74	1.50	1.27	1.09	-
4.00	-	-	-	-	-	3.96	3.53	2.98	2.57	2.22	1.95	1.72	1.50	1.28	1.09	0.92
3.00	-	-	-	-	-	4.05	3.46	2.90	2.45	2.19	1.92	1.71	1.50	1.28	1.09	0.92
2.00	-	-	-	-	-	4.11	3.40	2.85	2.45	2.15	1.91	1.70	1.48	1.24	1.07	0.90
1.00	-	-	-	-	-	4.00	3.38	2.84	2.46	2.13	1.89	1.64	1.40	1.21	1.02	0.88
0.00	-	-	-	-	-	3.35	3.21	2.73	2.31	2.06	1.80	1.58	1.35	1.15	0.99	0.85
-1.00	-	-	-	-	-	3.51	3.11	2.63	2.23	1.97	1.72	1.47	1.26	1.09	0.94	-
-2.00	-	-	-	5.36	4.68	3.70	3.03	2.56	2.20	1.87	1.60	1.37	1.19	1.05	-	-
-3.00	-	12.00	7.89	6.15	4.73	3.69	3.06	2.50	2.10	1.79	1.53	1.34	1.18	-	-	-
-4.00	-	-	-	5.27	4.02	3.19	2.63	2.20	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.73	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	2.53	2.19	1.77a	1.66	1.45	1.39	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.88	2.48	2.16	1.88	1.64	1.44	1.27	1.22	-
4.00	-	-	-	-	-	3.16a	3.11k	2.79	2.39	2.04	1.77	1.58	1.38	1.24	1.10	1.08
3.00	-	-	-	-	-	3.76	3.02	2.45	2.21	1.95	1.73	1.53	1.34	1.20	1.07	1.02
2.00	-	-	-	-	-	3.71	2.98	2.42	2.06	1.79	1.66	1.48	1.30	1.16	1.04	0.98
1.00	-	-	-	-	-	3.61	2.95	2.44	1.98	1.75	1.56	1.41	1.26	1.13	1.01	0.98
0.00	-	-	-	-	-	3.62	2.90	2.37	1.95	1.71	1.52	1.37	1.24	1.10	1.01	0.99
-1.00	-	-	-	-	-	3.38	2.75	2.31	1.90	1.69	1.50	1.35	1.21	1.10	1.03	-
-2.00	-	-	-	5.52	4.12	3.33	2.72	2.29	1.93	1.68	1.50	1.34	1.22	1.14	-	-
-3.00	-	11.58k	7.26	5.28	4.09	3.28	2.70	2.27	1.97	1.72	1.53	1.37	1.37	-	-	-
-4.00	-	-	-	5.90	4.44	3.55	2.95	2.51	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.01	2.94a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.94	2.55	2.23	1.90	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	2.90	2.56	2.23	1.94	1.67	1.43	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.26a	2.94	2.55	2.23	1.96	1.70	1.45	1.26	-
4.00	-	-	-	-	-	4.33	3.90	3.31	2.87	2.48	2.18	1.94	1.70	1.47	1.26	1.08
3.00	-	-	-	-	-	4.52	3.85	3.24	2.74	2.46	2.16	1.92	1.70	1.46	1.26	1.08
2.00	-	-	-	-	-	4.58	3.79	3.19	2.75	2.42	2.15	1.92	1.68	1.43	1.24	1.06
1.00	-	-	-	-	-	4.46	3.78	3.18	2.76	2.40	2.13	1.85	1.60	1.40	1.20	1.04
0.00	-	-	-	-	-	3.76	3.61	3.07	2.61	2.33	2.04	1.80	1.55	1.33	1.16	1.01
-1.00	-	-	-	-	-	3.97	3.50	2.97	2.53	2.23	1.96	1.68	1.46	1.27	1.11	-
-2.00	-	-	-	6.02	5.26	4.17	3.43	2.90	2.49	2.13	1.84	1.59	1.39	1.24	-	-
-3.00	-	12.00	8.82	6.90	5.32	4.16	3.46	2.84	2.40	2.06	1.77	1.56	1.38	-	-	-
-4.00	-	-	-	5.92	4.54	3.62	2.99	2.52	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	2.95	2.43a	1.77a	1.78a	1.74	1.67	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	2.90	2.54	1.99a	1.72a	1.72a	1.54	1.49	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	2.82	2.42	2.12	1.70a	1.68	1.52	1.36	1.33
3.00	-	-	-	-	-	4.40	3.56	2.92	2.65	2.33	2.08	1.73a	1.63	1.47	1.33	1.27
2.00	-	-	-	-	-	4.34	3.52	2.89	2.49	2.18	2.00	1.79	1.60	1.43	1.30	1.22
1.00	-	-	-	-	-	4.23	3.49	2.91	2.40	2.14	1.91	1.73	1.55	1.40	1.27	1.22
0.00	-	-	-	-	-	4.26	3.44	2.84	2.37	2.09	1.87	1.69	1.53	1.37	1.26	1.24
-1.00	-	-	-	-	-	4.01	3.29	2.79	2.32	2.07	1.84	1.66	1.50	1.37	1.29	-
-2.00	-	-	-	6.48	4.87	3.96	3.26	2.77	2.35	2.06	1.84	1.66	1.51	1.41	-	-
-3.00	-	11.58k	8.49	6.22	4.84	3.91	3.24	2.74	2.39	2.10	1.88	1.69	1.68	-	-	-
-4.00	-	-	-	6.92	5.23	4.21	3.51	3.01	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	2.97	2.60	2.24	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.14a	2.98	2.61	2.28	1.98	1.72	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.33	2.96	2.60	2.30	2.01	1.74	1.53	-
4.00	-	-	-	-	-	4.97	4.36	3.77	3.34	2.90	2.56	2.29	2.01	1.76	1.53	1.33
3.00	-	-	-	-	-	5.25	4.48	3.78	3.21	2.88	2.54	2.27	2.01	1.75	1.53	1.33
2.00	-	-	-	-	-	5.32	4.42	3.72	3.21	2.83	2.52	2.26	1.98	1.72	1.51	1.31
1.00	-	-	-	-	-	5.19	4.40	3.71	3.23	2.81	2.50	2.20	1.92	1.69	1.47	1.29
0.00	-	-	-	-	-	4.41	4.23	3.60	3.07	2.75	2.41	2.14	1.86	1.63	1.43	1.26
-1.00	-	-	-	-	-	4.68	4.13	3.50	3.00	2.65	2.34	2.03	1.77	1.56	1.38	-
-2.00	-	-	-	7.06	6.19	4.91	4.05	3.43	2.96	2.55	2.21	1.93	1.71	1.53	-	-
-3.00	-	12.00	10.28	8.08	6.24	4.90	4.08	3.37	2.88	2.48	2.15	1.90	1.69	-	-	-
-4.00	-	-	-	6.94	5.35	4.28	3.56	3.01	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HU Level-50 (Minimum Loads)	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.89k	9.03b	7.48b	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.93k	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HU Level-50 (Maximum Loads)	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.16b	7.97b	6.42b	5.77b	4.88a	4.91k	4.30a	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	8.00b	7.36b	6.49b	5.71b	4.93b	4.89b	4.11a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.71b	8.21b	7.57b	6.80b	6.02b	5.53b	4.94b	4.40a	2.94a
0.00	-	-	-	-	-	10.93b	10.34b	9.46b	8.71b	7.67b	6.83b	6.16b	5.59b	4.94a	4.45a	2.35a
-1.00	-	-	-	-	-	12.00	12.00b	10.17b	8.88b	7.73b	6.90k	6.20b	5.57b	4.76k	3.74a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.33b	8.93b	7.90b	6.95b	6.09b	4.68k	4.47a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.32b	8.66b	7.44b	6.25b	4.98b	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 10° Over Osc End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.74	8.71	7.38	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.66	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 10° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.07	7.50	6.19b	5.64b	4.87	4.62	4.14	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	7.47	6.51	5.77	5.07	4.66	4.17	3.75a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.68	7.49b	6.51	5.76b	5.08	4.63	4.13	3.71	2.94a
0.00	-	-	-	-	-	10.93b	10.16	8.67	7.52	6.58	5.80b	5.03	4.59	4.09	3.66	2.35a
-1.00	-	-	-	-	-	12.00	10.80b	8.94	7.65	6.64	5.74	4.99	4.48	4.04	3.61a	-
-2.00	-	-	-	12.00	12.00	12.00	10.76	8.90	7.58	6.54	5.62	4.96	4.38	3.98	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	10.71	8.81	7.43	6.39	5.57	4.90	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.73a	-	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.69	1.65
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.63	1.53
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.11	2.78a	1.82a	1.81a	1.80	1.58	1.46
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.04	2.65	1.92a	1.92a	1.76	1.53	1.46
0.00	-	-	-	-	-	7.26	5.48	4.32	3.46	2.97	2.57a	2.25a	1.97	1.71	1.53	1.48
-1.00	-	-	-	-	-	6.77	5.20	4.22	3.38	2.93	2.54	2.21	1.92	1.71	1.57	-
-2.00	-	-	-	12.00	8.95	6.68	5.16	4.18	3.32k	2.92	2.53	2.21	1.94	1.78	-	-
-3.00	-	11.58k	10.99k	11.36k	8.92	6.57	5.13	4.14	3.49	2.98	2.60	2.26	2.25	-	-	-
-4.00	-	-	-	12.00	9.95	7.23	5.66	4.64	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.72	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.59a	3.20	2.76	2.34	1.97	-
4.00	-	-	-	-	-	6.81b	6.67	5.89b	4.44	4.13	3.70	3.22	2.78	2.36	1.98	1.65
3.00	-	-	-	-	-	7.62b	7.25	5.95	4.94	4.22k	3.65	3.21b	2.77	2.34	1.96	1.65
2.00	-	-	-	-	-	7.59	7.30	5.84	4.82b	4.11	3.62	3.19b	2.74	2.30	1.93	1.61
1.00	-	-	-	-	-	8.11b	7.19	5.81	4.87	4.08	3.61	3.12	2.66	2.22	1.87	1.57
0.00	-	-	-	-	-	7.61	7.17	5.76	4.69	4.04	3.49	3.00	2.56	2.14	1.81	1.53
-1.00	-	-	-	-	-	8.41	6.99	5.59	4.58	3.92	3.36	2.84	2.40	2.03	1.72	-
-2.00	-	-	-	12.00	12.00	9.04	6.83	5.46	4.51	3.76	3.16	2.69	2.28	1.98	-	-
-3.00	-	12.00	12.00	12.00	12.00	8.97	6.89	5.35	4.37	3.64	3.06	2.64	2.26	-	-	-
-4.00	-	-	-	12.00	10.31	7.43	5.76	4.64	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.75	1.70a	1.69a	1.70a	1.55	1.52
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.06	2.69	1.73a	1.75a	1.73a	1.50	1.41
2.00	-	-	-	-	-	5.86b	4.92b	3.94	3.13k	2.83	2.57	1.82a	1.81a	1.66	1.46	1.35
1.00	-	-	-	-	-	5.79b	4.88b	3.97	3.17	2.77	2.41	1.92a	1.84	1.62	1.41	1.34
0.00	-	-	-	-	-	6.24	4.82	3.86	3.12	2.70	2.34	2.06	1.80	1.57	1.40	1.36
-1.00	-	-	-	-	-	5.82	4.58	3.77	3.05	2.66	2.30	2.02	1.76	1.56	1.44	-
-2.00	-	-	-	10.91	7.43	5.74	4.54	3.73	3.08	2.65	2.29	2.01	1.77	1.63	-	-
-3.00	-	11.58k	10.99k	10.31	7.40	5.65	4.51	3.69	3.16	2.71	2.35	2.06	2.05	-	-	-
-4.00	-	-	-	11.94	8.15	6.17	4.96	4.12	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.24a	2.93	2.52	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.60a	3.44	3.01	2.56	2.15	1.81	-
4.00	-	-	-	-	-	6.81b	6.39	5.26	4.21	3.89b	3.42	2.99	2.58	2.17	1.83	1.52
3.00	-	-	-	-	-	7.40	6.46b	5.25	4.43	3.88b	3.36	2.98	2.58	2.15	1.82a	1.52
2.00	-	-	-	-	-	7.24b	6.38	5.26	4.42	3.78	3.36	2.97	2.53	2.12	1.79	1.49
1.00	-	-	-	-	-	7.45	6.38	5.27	4.37	3.79b	3.33	2.87	2.44	2.04	1.72	1.44
0.00	-	-	-	-	-	6.51	6.18	5.09	4.21	3.66	3.19	2.76	2.35	1.97	1.66	1.40
-1.00	-	-	-	-	-	7.06	6.02	4.93	4.10	3.55	3.08	2.61	2.20	1.86	1.58	-
-2.00	-	-	-	12.00	10.24	7.51	5.89	4.81	4.04	3.40	2.89	2.45	2.09	1.81	-	-
-3.00	-	12.00	12.00	12.00	10.35	7.47	5.94	4.72	3.91	3.29	2.79	2.40	2.06	-	-	-
-4.00	-	-	-	12.00	8.40	6.32	5.03	4.12	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.64	1.56	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.01	2.54	1.70a	1.69a	1.60	1.36	1.33
3.00	-	-	-	-	-	5.95b	4.86	3.39k	3.12k	2.86	2.47	1.73a	1.75a	1.53	1.31	1.22
2.00	-	-	-	-	-	5.86b	4.78	3.72	3.07	2.60	2.34	1.82a	1.71	1.46	1.26	1.16
1.00	-	-	-	-	-	5.79b	4.73	3.75	2.94	2.53	2.17	1.90	1.63	1.41	1.21	1.16
0.00	-	-	-	-	-	6.14	4.64	3.64	2.90	2.46	2.11	1.83	1.59	1.36	1.21	1.17
-1.00	-	-	-	-	-	5.68	4.37	3.54	2.82	2.42	2.06	1.79	1.54	1.36	1.24	-
-2.00	-	-	-	11.50	7.44	5.59	4.32	3.51	2.85	2.40	2.06	1.78	1.56	1.42	-	-
-3.00	-	11.58k	10.99k	10.78	7.40	5.49	4.29	3.47	2.93	2.47	2.12	1.83	1.83	-	-	-
-4.00	-	-	-	12.00	8.25	6.06	4.77	3.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.22	2.77a	2.34	1.92	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.56a	3.28	2.83	2.36	1.95a	1.63	-
4.00	-	-	-	-	-	6.81b	6.31	5.10	4.06	3.72	3.23	2.82	2.39	1.99	1.64	1.33
3.00	-	-	-	-	-	7.40	6.46b	5.17b	4.25	3.70	3.20	2.79	2.37	1.98	1.63	1.33
2.00	-	-	-	-	-	7.24b	6.29	5.11	4.26	3.64	3.17	2.79	2.32	1.92	1.60	1.30
1.00	-	-	-	-	-	7.46	6.33	5.11	4.19	3.60	3.14	2.68	2.23	1.87	1.52	1.25
0.00	-	-	-	-	-	6.43	6.08	4.92	4.02	3.51	3.00	2.55	2.13	1.76	1.46	1.21
-1.00	-	-	-	-	-	7.02	5.89	4.75	3.90	3.35	2.87	2.38	1.98	1.65	1.38	-
-2.00	-	-	-	12.00	10.69	7.53	5.75	4.62	3.84	3.19	2.67	2.22	1.86	1.60	-	-
-3.00	-	12.00	12.00	12.00	10.83	7.48	5.81	4.52	3.69	3.07	2.56	2.17	1.84	-	-	-
-4.00	-	-	-	12.00	8.53	6.22	4.85	3.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 120° - +/- 130° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	2.96	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	7.07	5.56	4.53	3.75	3.11k	2.57a	2.25a	2.19a	2.07a	1.93	1.89
-1.00	-	-	-	-	-	6.70	5.35	4.46	3.57k	3.12k	2.71a	2.57	2.30	2.10	1.97	-
-2.00	-	-	-	12.00	8.51	6.64	5.33	4.43	3.32k	3.17k	2.86	2.56	2.32	2.16	-	-
-3.00	-	11.58k	10.99k	11.36k	8.50	6.55	5.30	4.39	3.78	3.28	2.91	2.60	2.59	-	-	-
-4.00	-	-	-	12.00	9.28	7.09	5.73	4.82	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 120° - +/- 130° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.91	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.59a	3.34	2.95	2.58	2.28	-
4.00	-	-	-	-	-	6.81b	6.64b	5.89	4.56	4.18k	3.77	3.38	2.96a	2.60	2.29	1.78a
3.00	-	-	-	-	-	7.62b	7.05	5.91	5.00	4.26	3.77	3.36b	2.95	2.59	2.28	1.99
2.00	-	-	-	-	-	7.53	7.12	5.84b	4.89	4.25	3.75	3.36b	2.93	2.55	2.25	1.99
1.00	-	-	-	-	-	7.89b	7.06	5.79	4.94	4.22	3.77	3.30a	2.85	2.51	2.21	1.96
0.00	-	-	-	-	-	7.36	6.98	5.76	4.79	4.19	3.67	3.21	2.78	2.46	2.15	1.93
-1.00	-	-	-	-	-	8.06	6.85	5.63	4.72	4.10	3.57	3.09	2.70	2.38	2.11	-
-2.00	-	-	-	12.00	11.62	8.56	6.74	5.53	4.67	3.98	3.41	2.97	2.62	2.34	-	-
-3.00	-	12.00	12.00	12.00	11.73	8.51	6.79	5.45	4.56	3.88	3.33	2.93	2.60	-	-	-
-4.00	-	-	-	12.00	9.56	7.26	5.83	4.82	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 130° - +/- 140° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	8.34	6.49	5.25	4.33	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	7.94	6.26	5.18	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.29	7.87	6.24	5.14	3.32k	3.17k	3.07a	2.93a	2.62a	2.47	-	-
-3.00	-	11.58k	10.99k	11.36k	10.30	7.77	6.22	5.10	4.26k	3.65k	3.13k	2.97	2.96	-	-	-
-4.00	-	-	-	12.00	11.31	8.43	6.72	5.60	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 130° - +/- 140° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.31	2.89	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	6.15	5.16	4.52a	4.26	3.76	3.32	2.92	2.58	1.78a
3.00	-	-	-	-	-	7.68b	7.80b	6.76	5.68	4.80	4.22	3.76	3.31	2.91	2.57	2.26
2.00	-	-	-	-	-	7.71b	7.73	6.70	5.63	4.82	4.22	3.75	3.29	2.88	2.55	2.25
1.00	-	-	-	-	-	8.73b	8.02	6.67	5.61	4.79	4.22	3.71	3.22a	2.85	2.49	2.23
0.00	-	-	-	-	-	8.71	8.23	6.69	5.51	4.77	4.18	3.65	3.16	2.77a	2.45	2.19
-1.00	-	-	-	-	-	9.68	8.10	6.56	5.45	4.66	4.07	3.50	3.07	2.70a	2.40	-
-2.00	-	-	-	12.00	12.00	10.35	7.97	6.44	5.39	4.57	3.88	3.39	2.99	2.67	-	-
-3.00	-	12.00	12.00	12.00	12.00	10.29	8.02	6.35	5.29	4.47	3.82	3.36	2.97	-	-	-
-4.00	-	-	-	12.00	11.70	8.66	6.84	5.60	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 140° - +/- 160° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.01	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	8.75	7.05	5.93	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	8.69	7.04	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.08	8.59	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.24	7.51	6.35	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2GL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 140° - +/- 160° Over Fixed End		75%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	6.80	5.53a	4.57a	4.48	4.21	3.79	3.35	3.01	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	7.40	6.27	5.42	4.68	4.25	3.80	3.37	3.02	2.44a
2.00	-	-	-	-	-	7.71b	7.89b	7.34	6.21	5.41	4.68	4.24	3.79	3.35	2.99	2.69a
1.00	-	-	-	-	-	8.87b	8.81	7.37	6.18	5.41	4.68	4.25	3.73	3.30	2.97	2.66
0.00	-	-	-	-	-	9.46	8.78	7.39	6.13b	5.43	4.78	4.15	3.68	3.28	2.92	2.35a
-1.00	-	-	-	-	-	10.47	8.89	7.32	6.16	5.33	4.58	4.08	3.60	3.20	2.88	-
-2.00	-	-	-	12.00	12.00	11.12	8.78	7.21	6.11	5.24	4.49	3.94	3.53	3.16	-	-
-3.00	-	12.00	12.00	12.00	12.00	11.06	8.73	7.13	6.01	5.13	4.44	3.89	3.51	-	-	-
-4.00	-	-	-	12.00	12.00	9.47	7.64	6.36	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HL Level-50 (Minimum Loads)	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.89k	9.03b	7.48b	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.93k	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2HL Level-50 (Maximum Loads)	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.16b	7.97b	6.42b	5.77b	4.88a	4.91k	4.30a	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	8.00b	7.36b	6.49b	5.71b	4.93b	4.89b	4.11a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.71b	8.21b	7.57b	6.80b	6.02b	5.53b	4.94b	4.40a	2.94a
0.00	-	-	-	-	-	10.93b	10.34b	9.46b	8.71b	7.67b	6.83b	6.16b	5.59b	4.94a	4.45a	2.35a
-1.00	-	-	-	-	-	12.00	12.00b	10.17b	8.88b	7.73b	6.90k	6.20b	5.57b	4.76k	3.74a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.33b	8.93b	7.90b	6.95b	6.09b	4.68k	4.47a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.32b	8.66b	7.44b	6.25b	4.98b	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU 50-100 (Minimum Loads)	Hitch	CANT	+/- 10° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.04	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	2.93	2.58	1.70a	1.69a	1.70a	1.70a	1.69
3.00	-	-	-	-	-	5.17	4.24	3.39k	3.12k	2.84	2.54	1.73a	1.75a	1.73a	1.68	1.61
2.00	-	-	-	-	-	5.11	4.20	3.50	3.05	2.69	2.47	1.82a	1.81a	1.80	1.65	1.57
1.00	-	-	-	-	-	5.00	4.17	3.53	2.96	2.65	2.38	1.92a	1.92a	1.78	1.62	1.57
0.00	-	-	-	-	-	5.02	4.12	3.46	2.93	2.60	2.34	2.12	1.93	1.75	1.62	1.58
-1.00	-	-	-	-	-	4.78	3.97	3.40	2.88	2.58	2.31	2.10	1.90	1.75	1.65	-
-2.00	-	-	-	7.52	5.75	4.73	3.95	3.38	2.91	2.57	2.31	2.09	1.91	1.80	-	-
-3.00	-	11.58k	9.69	7.24	5.73	4.68	3.93	3.36	2.95	2.61	2.35	2.12	2.11	-	-	-
-4.00	-	-	-	7.99	6.14	5.00	4.22	3.65	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU 50-100 (Maximum Loads)	Hitch	CANT	+/- 10° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.09	2.71	2.41	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.44	3.10	2.75a	2.42	2.13	1.90	-
4.00	-	-	-	-	-	5.77	5.10	4.37	3.87	3.45	3.06	2.74	2.44	2.15	1.90	1.69
3.00	-	-	-	-	-	6.10	5.23	4.45	3.81	3.42	3.04	2.73	2.43	2.14	1.89	1.69
2.00	-	-	-	-	-	6.18	5.17	4.39	3.81	3.38	3.02	2.72	2.40	2.12	1.88a	1.67
1.00	-	-	-	-	-	6.03	5.16	4.38	3.83	3.35	3.00	2.66	2.35	2.07	1.84	1.64
0.00	-	-	-	-	-	5.19	4.99	4.27	3.67	3.30	2.91	2.58	2.29	2.02	1.80	1.62
-1.00	-	-	-	-	-	5.53	4.89	4.18	3.60	3.20	2.84	2.49	2.20	1.96	1.76	-
-2.00	-	-	-	8.15	7.21	5.79	4.81	4.10	3.57	3.10	2.71	2.39	2.14	1.93	-	-
-3.00	-	12.00	11.56	9.25	7.26	5.76	4.84	4.05	3.49	3.03	2.65	2.37	2.12	-	-	-
-4.00	-	-	-	8.02	6.27	5.09	4.27	3.65	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU 50-100 (Minimum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.08	2.00	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.11	1.79	1.56	1.40	-	-	-	-
6.00	-	-	-	-	-	-	-	2.51	2.09	1.80	1.56	1.33	1.15	1.10	-	-
5.00	-	-	-	-	-	2.75a	2.79	2.37	2.03	1.76	1.52	1.32	1.14	0.99	0.95	-
4.00	-	-	-	-	-	3.16a	2.65	2.26	1.95	1.65	1.42	1.26	1.09	0.97	0.85	0.83
3.00	-	-	-	-	-	3.05	2.44	1.95	1.75	1.56	1.38	1.20	1.04	0.93	0.82	0.77
2.00	-	-	-	-	-	3.01	2.40	1.92	1.61	1.40	1.29	1.15	1.01	0.89	0.79	0.74
1.00	-	-	-	-	-	2.91	2.37	1.93	1.55	1.36	1.21	1.09	0.96	0.86	0.76	0.73
0.00	-	-	-	-	-	2.93	2.31	1.88	1.52	1.33	1.17	1.05	0.94	0.83	0.76	0.74
-1.00	-	-	-	-	-	2.69	2.17	1.81	1.47	1.30	1.15	1.03	0.92	0.83	0.77	-
-2.00	-	-	-	4.39	3.28	2.65	2.14	1.79	1.49	1.30	1.15	1.03	0.92	0.86	-	-
-3.00	-	10.60	5.72	4.19	3.24	2.60	2.12	1.77	1.53	1.33	1.18	1.05	1.05	-	-	-
-4.00	-	-	-	4.69	3.54	2.83	2.35	1.99	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU 50-100 (Maximum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.70a	2.44	2.06	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.44	2.11	1.83	1.54	-	-	-	-
6.00	-	-	-	-	-	-	-	2.51	2.40	2.12	1.84	1.60	1.35	1.13	-	-
5.00	-	-	-	-	-	2.96a	3.13a	2.75	2.43	2.10	1.83	1.60	1.38	1.16	0.99	-
4.00	-	-	-	-	-	3.70	3.24	2.73	2.36	2.04	1.79	1.59	1.38	1.17	0.99	0.83
3.00	-	-	-	-	-	3.68	3.16	2.66	2.25	2.01	1.77	1.57	1.38	1.17	0.99	0.83
2.00	-	-	-	-	-	3.73	3.10	2.61	2.25	1.97	1.75	1.57	1.35	1.14	0.97	0.81
1.00	-	-	-	-	-	3.64	3.09	2.59	2.26	1.96	1.73	1.50	1.28	1.10	0.93	0.79
0.00	-	-	-	-	-	3.04	2.92	2.49	2.12	1.89	1.65	1.45	1.23	1.04	0.89	0.76
-1.00	-	-	-	-	-	3.17	2.82	2.39	2.03	1.80	1.57	1.33	1.14	0.98	0.84	-
-2.00	-	-	-	4.77	4.18	3.33	2.74	2.32	2.00	1.70	1.45	1.24	1.07	0.95	-	-
-3.00	-	10.97	6.90	5.44	4.23	3.32	2.77	2.27	1.91	1.63	1.39	1.21	1.06	-	-	-
-4.00	-	-	-	4.70	3.62	2.88	2.38	2.00	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU 50-100 (Minimum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30	1.89	1.81	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.91	1.59	1.37	1.21	-	-	-	-
6.00	-	-	-	-	-	-	-	2.32	1.89	1.61	1.37	1.15	0.97	0.92	-	-
5.00	-	-	-	-	-	2.75a	2.60	2.17	1.83	1.57	1.33	1.13	0.96	0.82	0.78	-
4.00	-	-	-	-	-	2.98	2.44	2.05	1.74	1.44	1.22	1.07	0.91	0.80	0.68	0.66
3.00	-	-	-	-	-	2.85	2.22	1.72	1.53	1.35	1.18	1.01	0.86	0.75	0.65	0.61
2.00	-	-	-	-	-	2.81	2.17	1.69	1.38	1.18	1.08	0.95	0.82	0.71	0.62	0.55
1.00	-	-	-	-	-	2.70	2.14	1.70	1.31	1.14	1.00	0.89	0.77	0.68	0.58	0.55
0.00	-	-	-	-	-	2.72	2.07	1.64	1.28	1.10	0.96	0.85	0.76	0.65	0.58	0.55
-1.00	-	-	-	-	-	2.46	1.93	1.57	1.24	1.08	0.94	0.83	0.73	0.65	0.60	-
-2.00	-	-	-	4.30	3.07	2.41	1.89	1.54	1.26	1.07	0.93	0.83	0.73	0.68	-	-
-3.00	-	11.58k	5.90	4.08	3.03	2.36	1.87	1.53	1.30	1.11	0.97	0.85	0.85	-	-	-
-4.00	-	-	-	4.65	3.36	2.60	2.11	1.75	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU 50-100 (Maximum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.55	2.25	1.86	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.25	1.91	1.64	1.35	-	-	-	-
6.00	-	-	-	-	-	-	-	2.32	2.21	1.92	1.65	1.41	1.17	0.96	-	-
5.00	-	-	-	-	-	2.96a	2.96	2.56	2.24	1.91	1.64	1.41	1.19	0.98	0.82	-
4.00	-	-	-	-	-	3.55	3.07	2.54	2.16	1.84	1.60	1.40	1.20	1.00	0.82	0.66
3.00	-	-	-	-	-	3.53	2.97	2.46	2.05	1.81	1.57	1.38	1.20	0.99	0.82	0.66
2.00	-	-	-	-	-	3.58	2.91	2.40	2.04	1.77	1.56	1.38	1.17	0.96	0.80	0.64
1.00	-	-	-	-	-	3.48	2.89	2.39	2.05	1.76	1.54	1.31	1.10	0.92	0.75	0.62
0.00	-	-	-	-	-	2.83	2.71	2.27	1.90	1.68	1.44	1.25	1.04	0.86	0.71	0.58
-1.00	-	-	-	-	-	2.96	2.59	2.16	1.81	1.58	1.37	1.14	0.95	0.80	0.66	-
-2.00	-	-	-	4.74	4.06	3.13	2.52	2.09	1.77	1.48	1.24	1.04	0.88	0.76	-	-
-3.00	-	12.00	7.44	5.56	4.12	3.12	2.55	2.03	1.67	1.40	1.17	1.00	0.86	-	-	-
-4.00	-	-	-	4.66	3.44	2.65	2.15	1.76	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU 50-100 (Minimum Loads)	Hitch	CANT	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30	1.89	1.81	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.91	1.59	1.37	1.21	-	-	-	-
6.00	-	-	-	-	-	-	-	2.32	1.89	1.61	1.37	1.15	0.97	0.92	-	-
5.00	-	-	-	-	-	2.75a	2.60	2.17	1.83	1.57	1.33	1.13	0.96	0.82	0.78	-
4.00	-	-	-	-	-	2.98	2.44	2.05	1.74	1.44	1.22	1.07	0.91	0.80	0.68	0.66
3.00	-	-	-	-	-	2.85	2.22	1.72	1.53	1.35	1.18	1.01	0.86	0.75	0.65	0.61
2.00	-	-	-	-	-	2.81	2.17	1.69	1.38	1.18	1.08	0.95	0.82	0.71	0.62	0.55
1.00	-	-	-	-	-	2.70	2.14	1.70	1.31	1.14	1.00	0.89	0.77	0.68	0.58	0.55
0.00	-	-	-	-	-	2.72	2.07	1.64	1.28	1.10	0.96	0.85	0.76	0.65	0.58	0.55
-1.00	-	-	-	-	-	2.46	1.93	1.57	1.24	1.08	0.94	0.83	0.73	0.65	0.60	-
-2.00	-	-	-	4.30	3.07	2.41	1.89	1.54	1.26	1.07	0.93	0.83	0.73	0.68	-	-
-3.00	-	11.58k	5.90	4.08	3.03	2.36	1.87	1.53	1.30	1.11	0.97	0.85	0.85	-	-	-
-4.00	-	-	-	4.65	3.36	2.60	2.11	1.75	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU 50-100 (Maximum Loads)	Hitch	CANT	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.55	2.25	1.86	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.25	1.91	1.64	1.35	-	-	-	-
6.00	-	-	-	-	-	-	-	2.32	2.21	1.92	1.65	1.41	1.17	0.96	-	-
5.00	-	-	-	-	-	2.96a	2.96	2.56	2.24	1.91	1.64	1.41	1.19	0.98	0.82	-
4.00	-	-	-	-	-	3.55	3.07	2.54	2.16	1.84	1.60	1.40	1.20	1.00	0.82	0.66
3.00	-	-	-	-	-	3.53	2.97	2.46	2.05	1.81	1.57	1.38	1.20	0.99	0.82	0.66
2.00	-	-	-	-	-	3.58	2.91	2.40	2.04	1.77	1.56	1.38	1.17	0.96	0.80	0.64
1.00	-	-	-	-	-	3.48	2.89	2.39	2.05	1.76	1.54	1.31	1.10	0.92	0.75	0.62
0.00	-	-	-	-	-	2.83	2.71	2.27	1.90	1.68	1.44	1.25	1.04	0.86	0.71	0.58
-1.00	-	-	-	-	-	2.96	2.59	2.16	1.81	1.58	1.37	1.14	0.95	0.80	0.66	-
-2.00	-	-	-	4.74	4.06	3.13	2.52	2.09	1.77	1.48	1.24	1.04	0.88	0.76	-	-
-3.00	-	12.00	7.44	5.56	4.12	3.12	2.55	2.03	1.67	1.40	1.17	1.00	0.86	-	-	-
-4.00	-	-	-	4.66	3.43	2.65	2.15	1.76	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU 50-100 (Minimum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.08	2.00	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.11	1.79	1.56	1.40	-	-	-	-
6.00	-	-	-	-	-	-	-	2.51	2.09	1.80	1.56	1.33	1.15	1.10	-	-
5.00	-	-	-	-	-	2.75a	2.79	2.37	2.03	1.76	1.52	1.32	1.14	0.99	0.95	-
4.00	-	-	-	-	-	3.16a	2.66	2.26	1.95	1.65	1.42	1.26	1.09	0.97	0.85	0.83
3.00	-	-	-	-	-	3.05	2.44	1.95	1.75	1.56	1.38	1.20	1.04	0.93	0.82	0.77
2.00	-	-	-	-	-	3.01	2.40	1.92	1.61	1.40	1.29	1.15	1.01	0.89	0.79	0.74
1.00	-	-	-	-	-	2.91	2.37	1.93	1.55	1.36	1.21	1.09	0.96	0.86	0.76	0.73
0.00	-	-	-	-	-	2.93	2.31	1.88	1.52	1.33	1.17	1.05	0.94	0.83	0.76	0.74
-1.00	-	-	-	-	-	2.69	2.17	1.81	1.47	1.30	1.15	1.03	0.92	0.83	0.77	-
-2.00	-	-	-	4.39	3.28	2.65	2.14	1.79	1.49	1.30	1.15	1.03	0.92	0.86	-	-
-3.00	-	10.60	5.72	4.19	3.24	2.60	2.12	1.77	1.53	1.33	1.18	1.05	1.05	-	-	-
-4.00	-	-	-	4.69	3.54	2.83	2.35	1.99	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU 50-100 (Maximum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.70a	2.44	2.06	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.44	2.11	1.83	1.54	-	-	-	-
6.00	-	-	-	-	-	-	-	2.51	2.40	2.12	1.84	1.60	1.35	1.13	-	-
5.00	-	-	-	-	-	2.96a	3.13a	2.75	2.43	2.10	1.83	1.60	1.38	1.16	0.99	-
4.00	-	-	-	-	-	3.70	3.24	2.73	2.36	2.04	1.79	1.59	1.38	1.17	0.99	0.83
3.00	-	-	-	-	-	3.68	3.16	2.66	2.25	2.01	1.77	1.57	1.38	1.17	0.99	0.83
2.00	-	-	-	-	-	3.73	3.10	2.61	2.25	1.97	1.75	1.57	1.35	1.14	0.97	0.81
1.00	-	-	-	-	-	3.64	3.09	2.59	2.26	1.96	1.73	1.50	1.28	1.10	0.93	0.79
0.00	-	-	-	-	-	3.04	2.92	2.49	2.12	1.89	1.65	1.45	1.23	1.04	0.89	0.76
-1.00	-	-	-	-	-	3.17	2.82	2.39	2.03	1.80	1.57	1.33	1.14	0.98	0.84	-
-2.00	-	-	-	4.77	4.18	3.33	2.74	2.32	2.00	1.70	1.45	1.24	1.07	0.95	-	-
-3.00	-	10.97	6.90	5.44	4.23	3.32	2.77	2.27	1.91	1.63	1.39	1.21	1.06	-	-	-
-4.00	-	-	-	4.70	3.62	2.88	2.38	2.00	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU 50-100 (Minimum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.77	1.59	-	-	-	-
6.00	-	-	-	-	-	-	-	2.89	2.38	2.05	1.77a	1.51	1.31	1.25	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.73	2.32	2.01	1.73	1.50	1.30	1.13	1.09	-
4.00	-	-	-	-	-	3.16a	3.11	2.63	2.24	1.89	1.62	1.44	1.24	1.11	0.97	0.95
3.00	-	-	-	-	-	3.62	2.86	2.27	2.04	1.79	1.58	1.38	1.19	1.06	0.94	0.89
2.00	-	-	-	-	-	3.56	2.81	2.25	1.88	1.63	1.50	1.33	1.16	1.02	0.91	0.85
1.00	-	-	-	-	-	3.45	2.78	2.26	1.80	1.58	1.40	1.26	1.11	0.99	0.88	0.85
0.00	-	-	-	-	-	3.47	2.72	2.19	1.78	1.54	1.36	1.22	1.09	0.96	0.88	0.86
-1.00	-	-	-	-	-	3.21	2.56	2.13	1.73	1.52	1.34	1.19	1.06	0.96	0.90	-
-2.00	-	-	-	5.49	3.97	3.16	2.53	2.11	1.75	1.51	1.33	1.19	1.07	1.00	-	-
-3.00	-	11.58k	7.48	5.23	3.94	3.10	2.51	2.08	1.79	1.55	1.37	1.22	1.22	-	-	-
-4.00	-	-	-	5.91	4.32	3.39	2.78	2.33	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU 50-100 (Maximum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.86	2.80	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.80	2.40	2.08	1.75	-	-	-	-
6.00	-	-	-	-	-	-	-	2.89	2.76	2.41	2.09	1.80	1.53	1.29	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.17	2.79	2.40	2.08	1.81	1.56	1.32	1.13	-
4.00	-	-	-	-	-	4.22	3.80	3.17	2.71	2.33	2.04	1.80	1.56	1.33	1.13	0.95
3.00	-	-	-	-	-	4.41	3.72	3.09	2.59	2.30	2.01	1.78	1.56	1.33	1.13	0.95
2.00	-	-	-	-	-	4.48	3.65	3.03	2.59	2.26	1.99	1.78	1.53	1.29	1.11	0.93
1.00	-	-	-	-	-	4.35	3.64	3.02	2.60	2.24	1.98	1.71	1.46	1.26	1.06	0.91
0.00	-	-	-	-	-	3.61	3.45	2.91	2.44	2.17	1.88	1.65	1.40	1.19	1.02	0.88
-1.00	-	-	-	-	-	3.82	3.34	2.80	2.36	2.07	1.80	1.53	1.31	1.13	0.97	-
-2.00	-	-	-	6.04	5.21	4.03	3.26	2.72	2.32	1.96	1.67	1.43	1.24	1.09	-	-
-3.00	-	12.00	9.37	7.05	5.26	4.02	3.29	2.66	2.23	1.89	1.61	1.40	1.23	-	-	-
-4.00	-	-	-	5.94	4.42	3.45	2.82	2.34	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU 50-100 (Minimum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.87	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	2.68	2.34	1.77a	1.78a	1.58	1.52	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	2.62	2.30	1.99a	1.72a	1.57	1.40	1.35	-
4.00	-	-	-	-	-	3.16a	3.11k	2.94	2.54	2.19	1.91	1.70a	1.52	1.37	1.23	1.21
3.00	-	-	-	-	-	3.90	3.18	2.61	2.37	2.10	1.88	1.67	1.47	1.33	1.20	1.14
2.00	-	-	-	-	-	3.85	3.14	2.59	2.22	1.95	1.81	1.62	1.44	1.29	1.17	1.10
1.00	-	-	-	-	-	3.75	3.11	2.60	2.14	1.91	1.71	1.56	1.39	1.26	1.14	1.10
0.00	-	-	-	-	-	3.77	3.06	2.54	2.12	1.87	1.68	1.52	1.37	1.23	1.14	1.11
-1.00	-	-	-	-	-	3.54	2.92	2.48	2.07	1.85	1.65	1.49	1.35	1.23	1.16	-
-2.00	-	-	-	5.56	4.25	3.49	2.89	2.46	2.09	1.84	1.65	1.49	1.36	1.27	-	-
-3.00	-	11.58k	7.11	5.34	4.22	3.44	2.87	2.44	2.14	1.88	1.68	1.52	1.51	-	-	-
-4.00	-	-	-	5.90	4.55	3.70	3.12	2.68	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU 50-100 (Maximum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.08	2.69	2.36	2.03	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.04	2.70	2.37	2.08	1.81	1.56	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.35	3.06a	2.69	2.37	2.09	1.83	1.58	1.39	-
4.00	-	-	-	-	-	4.43	4.01	3.45	3.01	2.63	2.32	2.08	1.84	1.60	1.39	1.21
3.00	-	-	-	-	-	4.62	3.98	3.38	2.89	2.60	2.30	2.06	1.83	1.59	1.39	1.21
2.00	-	-	-	-	-	4.67	3.92	3.33	2.89	2.56	2.29	2.06	1.81	1.56	1.37	1.19
1.00	-	-	-	-	-	4.57	3.91	3.32	2.91	2.54	2.27	1.99	1.74	1.53	1.33	1.16
0.00	-	-	-	-	-	3.89	3.75	3.22	2.76	2.48	2.18	1.94	1.69	1.47	1.29	1.14
-1.00	-	-	-	-	-	4.10	3.65	3.12	2.69	2.39	2.11	1.83	1.60	1.41	1.24	-
-2.00	-	-	-	6.01	5.32	4.29	3.58	3.06	2.65	2.29	1.99	1.74	1.53	1.38	-	-
-3.00	-	12.00	8.43	6.79	5.37	4.28	3.61	3.00	2.57	2.22	1.93	1.71	1.52	-	-	-
-4.00	-	-	-	5.92	4.64	3.76	3.16	2.68	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU 50-100 (Minimum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.89k	9.03b	7.48b	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.93k	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU 50-100 (Maximum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.16b	7.97b	6.42b	5.77b	4.88a	4.91k	4.30a	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	8.00b	7.36b	6.49b	5.71b	4.93b	4.89b	4.11a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.71b	8.21b	7.57b	6.80b	6.02b	5.53b	4.94b	4.40a	2.94a
0.00	-	-	-	-	-	10.93b	10.34b	9.46b	8.71b	7.67b	6.83b	6.16b	5.59b	4.94a	4.45a	2.35a
-1.00	-	-	-	-	-	12.00	12.00b	10.17b	8.88b	7.73b	6.90k	6.20b	5.57b	4.76k	3.74a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.33b	8.93b	7.90b	6.95b	6.09b	4.68k	4.47a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.32b	8.66b	7.44b	6.25b	4.98b	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL 50-100 (Minimum Loads)	Hitch	CANT	+/- 10° Over Osc End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	8.51	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	8.18	6.88	5.97	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	9.75	8.12	6.87	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	9.73	8.04	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	10.36	8.53	7.26	6.34	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL 50-100 (Maximum Loads)	Hitch	CANT	+/- 10° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	6.75	5.53a	4.57a	4.52a	4.27a	4.03	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	7.80b	7.22	6.32	5.60	4.89	4.50	4.07	3.68	3.33	2.44a
2.00	-	-	-	-	-	7.71b	7.87b	7.17	6.26	5.58	4.93	4.49b	4.07	3.67	3.30	2.72a
1.00	-	-	-	-	-	8.73b	8.28	7.20	6.24	5.55	4.93	4.51	4.05	3.62	3.28	2.94a
0.00	-	-	-	-	-	8.77	8.44	7.22	6.20	5.61	4.91	4.44	3.97	3.58	3.22	2.35a
-1.00	-	-	-	-	-	9.38	8.32	7.15	6.22	5.50	4.83	4.27	3.91	3.51	3.19	-
-2.00	-	-	-	12.00	12.00	9.79	8.22	7.05	6.16	5.42	4.73	4.22	3.84	3.47	-	-
-3.00	-	12.00	12.00	12.00	12.00	9.75	8.26	6.98	6.07	5.31	4.68	4.17	3.81	-	-	-
-4.00	-	-	-	12.00	10.58	8.69	7.36	6.34	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL 50-100 (Minimum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.09	1.99a	1.72a	1.72a	1.70	1.62	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	2.93	2.51	1.70a	1.69a	1.66	1.44	1.41
3.00	-	-	-	-	-	5.53	4.40	3.39k	3.12k	2.79	2.45	1.73a	1.75a	1.60	1.39	1.31
2.00	-	-	-	-	-	5.45	4.34	3.51	2.97	2.56	2.34	1.82a	1.76	1.53	1.35	1.25
1.00	-	-	-	-	-	5.30	4.30	3.53	2.86	2.50	2.19	1.92a	1.69	1.49	1.30	1.25
0.00	-	-	-	-	-	5.33	4.22	3.44	2.82	2.44	2.13	1.88	1.66	1.44	1.30	1.26
-1.00	-	-	-	-	-	4.98	4.01	3.35	2.75	2.40	2.09	1.84	1.62	1.44	1.33	-
-2.00	-	-	-	8.43	6.14	4.91	3.97	3.32	2.78	2.39	2.08	1.84	1.63	1.50	-	-
-3.00	-	11.58k	10.99k	8.04	6.10	4.83	3.94	3.29	2.85	2.45	2.14	1.88	1.88	-	-	-
-4.00	-	-	-	9.06	6.65	5.24	4.32	3.65	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL 50-100 (Maximum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.16	2.72	2.34	1.95	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.54a	3.18	2.77	2.36	1.98	1.69	-
4.00	-	-	-	-	-	6.30	5.49	4.62	3.97a	3.56	3.12	2.77	2.38	2.01	1.69	1.41
3.00	-	-	-	-	-	6.71	5.65	4.71	3.95	3.53	3.09	2.74	2.37	2.01a	1.69	1.41
2.00	-	-	-	-	-	6.81	5.57	4.63	3.96	3.47	3.07	2.74	2.32	1.96	1.66	1.38
1.00	-	-	-	-	-	6.62	5.55	4.62	3.98	3.44	3.04	2.64	2.24	1.91	1.59	1.34
0.00	-	-	-	-	-	5.54	5.29	4.46	3.76	3.35	2.92	2.54a	2.15	1.81	1.53	1.30
-1.00	-	-	-	-	-	5.89	5.15	4.32	3.65	3.21	2.81	2.37	2.01	1.72	1.46	-
-2.00	-	-	-	9.27	8.00	6.21	5.04	4.22	3.61	3.07	2.63	2.23	1.91	1.66	-	-
-3.00	-	12.00	12.00	10.80	8.09	6.19	5.08	4.14	3.48	2.97	2.53	2.18	1.89	-	-	-
-4.00	-	-	-	9.10	6.81	5.34	4.38	3.66	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL 50-100 (Minimum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.71	1.62	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	2.85	1.99a	1.72a	1.70	1.43	1.35	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	2.67	2.22	1.70a	1.61	1.39	1.17	1.14
3.00	-	-	-	-	-	5.51	4.23	3.29	2.92	2.51	2.16	1.73a	1.53	1.32	1.12	1.04
2.00	-	-	-	-	-	5.41	4.15	3.25	2.68	2.25	2.03	1.75	1.47	1.25	1.08	0.98
1.00	-	-	-	-	-	5.24	4.11	3.28	2.55	2.18	1.87	1.64	1.40	1.21	1.03	0.98
0.00	-	-	-	-	-	5.27	4.02	3.17	2.51	2.11	1.81	1.57	1.36	1.16	1.02	0.99
-1.00	-	-	-	-	-	4.86	3.78	3.08	2.43	2.07	1.77	1.53	1.32	1.16	1.05	-
-2.00	-	-	-	9.22	6.23	4.78	3.73	3.05	2.46	2.06	1.76	1.53	1.33	1.21	-	-
-3.00	-	11.58k	10.99k	8.69	6.18	4.69	3.70	3.01	2.54	2.13	1.82	1.58	1.57	-	-	-
-4.00	-	-	-	10.11	6.86	5.16	4.12	3.40	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL 50-100 (Maximum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	2.93	2.41	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.23a	2.94	2.48	2.07	1.68	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.36	2.96	2.53	2.12	1.72	1.42	-
4.00	-	-	-	-	-	6.41	5.46	4.47	3.85	3.35	2.89	2.51	2.11	1.75	1.43	1.14
3.00	-	-	-	-	-	6.88b	5.64	4.58	3.75	3.31	2.86	2.48	2.10	1.74a	1.42	1.14
2.00	-	-	-	-	-	6.98b	5.55	4.49	3.76	3.24	2.83	2.48	2.06	1.68	1.39	1.11
1.00	-	-	-	-	-	6.81	5.52	4.47	3.78	3.21	2.80	2.36	1.96	1.63	1.31	1.07
0.00	-	-	-	-	-	5.51	5.23	4.29	3.54	3.11	2.66	2.27	1.87	1.53	1.26	1.03
-1.00	-	-	-	-	-	5.93	5.06	4.13	3.42	2.96	2.53	2.08	1.72	1.43	1.18	-
-2.00	-	-	-	10.42	8.63	6.32	4.93	4.02	3.37	2.81	2.32	1.92	1.61	1.37	-	-
-3.00	-	12.00	12.00	11.82k	8.74	6.29	4.98	3.93	3.23	2.69	2.21	1.87	1.59	-	-	-
-4.00	-	-	-	10.18	7.06	5.28	4.19	3.41	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL 50-100 (Minimum Loads)	Hitch	CANT	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.71	1.62	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	2.85	1.99a	1.72a	1.70	1.43	1.35	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	2.67	2.22	1.70a	1.61	1.39	1.17	1.14
3.00	-	-	-	-	-	5.51	4.23	3.29	2.92	2.51	2.16	1.73a	1.53	1.32	1.12	1.04
2.00	-	-	-	-	-	5.41	4.15	3.25	2.68	2.25	2.03	1.75	1.47	1.25	1.08	0.98
1.00	-	-	-	-	-	5.24	4.11	3.28	2.55	2.18	1.87	1.64	1.40	1.21	1.03	0.98
0.00	-	-	-	-	-	5.27	4.02	3.17	2.51	2.11	1.81	1.57	1.36	1.16	1.02	0.99
-1.00	-	-	-	-	-	4.86	3.78	3.08	2.43	2.07	1.77	1.53	1.32	1.16	1.05	-
-2.00	-	-	-	9.22	6.23	4.78	3.73	3.05	2.46	2.06	1.76	1.53	1.33	1.21	-	-
-3.00	-	11.58k	10.99k	8.69	6.18	4.69	3.70	3.01	2.54	2.13	1.82	1.58	1.57	-	-	-
-4.00	-	-	-	10.11	6.86	5.16	4.12	3.40	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL 50-100 (Maximum Loads)	Hitch	CANT	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	2.93	2.41	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.23a	2.94	2.48	2.07	1.68	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.36a	2.96	2.53	2.12	1.72	1.42	-
4.00	-	-	-	-	-	6.41	5.46	4.47	3.85	3.35	2.89	2.51	2.11	1.75	1.43	1.14
3.00	-	-	-	-	-	6.88b	5.64	4.58	3.75	3.31	2.86	2.48	2.10	1.74a	1.42	1.14
2.00	-	-	-	-	-	6.98b	5.55	4.49	3.76	3.24	2.83	2.48	2.06	1.68	1.39	1.11
1.00	-	-	-	-	-	6.81	5.52	4.47	3.78	3.21	2.80	2.36	1.96	1.63	1.31	1.07
0.00	-	-	-	-	-	5.51	5.23	4.29	3.54	3.11	2.66	2.27	1.87	1.53	1.26	1.03
-1.00	-	-	-	-	-	5.93	5.06	4.13	3.42	2.96	2.53	2.08	1.72	1.43	1.18	-
-2.00	-	-	-	10.42	8.63	6.32	4.93	4.02	3.37	2.81	2.32	1.92	1.61	1.37	-	-
-3.00	-	12.00	12.00	11.82k	8.74	6.29	4.98	3.93	3.23	2.69	2.21	1.87	1.59	-	-	-
-4.00	-	-	-	10.18	7.06	5.28	4.19	3.41	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL 50-100 (Minimum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.69
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.74	1.62
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.08	2.74	1.92a	1.92a	1.91	1.69	1.62
0.00	-	-	-	-	-	6.40	5.09	4.16	3.45	3.02	2.57a	2.25a	2.11	1.86	1.68	1.64
-1.00	-	-	-	-	-	6.02	4.86	4.08	3.38	2.98	2.64	2.34	2.07	1.86	1.73	-
-2.00	-	-	-	10.34	7.47	5.95	4.83	4.05	3.32k	2.97	2.63	2.33	2.09	1.93	-	-
-3.00	-	11.58k	10.99k	9.86	7.43	5.87	4.80	4.01	3.48	3.03	2.69	2.38	2.37	-	-	-
-4.00	-	-	-	11.14	8.09	6.35	5.22	4.42	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL 50-100 (Maximum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.79	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.59	3.22	2.82a	2.44	2.10	-
4.00	-	-	-	-	-	6.81b	6.53	5.48	4.38b	4.04a	3.66	3.24	2.84	2.46	2.10	1.78a
3.00	-	-	-	-	-	7.43	6.58	5.48	4.69	4.11	3.61	3.21	2.83	2.43	2.09	1.80
2.00	-	-	-	-	-	7.26	6.52	5.43	4.67	4.00	3.59	3.21	2.79	2.41	2.06	1.76
1.00	-	-	-	-	-	7.48	6.52	5.42	4.63	3.98	3.58	3.15	2.73a	2.34	2.01	1.72
0.00	-	-	-	-	-	6.65	6.35	5.32	4.48	3.95	3.48	3.04	2.63a	2.27	1.95	1.69
-1.00	-	-	-	-	-	7.14	6.20	5.18	4.38	3.84	3.37	2.90	2.51	2.17	1.87	-
-2.00	-	-	-	11.42	9.81	7.53	6.08	5.07	4.33	3.70	3.19	2.77	2.41	2.12	-	-
-3.00	-	12.00	12.00	12.00	9.90	7.50	6.13	4.99	4.21	3.60	3.10	2.73	2.39	-	-	-
-4.00	-	-	-	11.20	8.29	6.48	5.29	4.42	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL 50-100 (Minimum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.73a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.69
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	2.92	1.92a	1.92a	1.94a	1.77	1.69
0.00	-	-	-	-	-	7.40	5.73	4.59	3.74	3.11k	2.57a	2.25a	2.19a	1.96	1.76	1.72
-1.00	-	-	-	-	-	6.96	5.47	4.50	3.57k	3.12k	2.71a	2.49	2.19	1.96	1.81	-
-2.00	-	-	-	12.00	8.95	6.87	5.43	4.47	3.32k	3.17k	2.81	2.48	2.20	2.03	-	-
-3.00	-	11.58k	10.99k	11.36k	8.93	6.77	5.40	4.43	3.78	3.25	2.87	2.53	2.52	-	-	-
-4.00	-	-	-	12.00	9.83	7.38	5.90	4.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL 50-100 (Maximum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.60a	3.41	2.97	2.56	2.21	-
4.00	-	-	-	-	-	6.81b	6.84	5.89b	4.69	4.26	3.85a	3.42	2.99	2.59	2.21	1.78a
3.00	-	-	-	-	-	7.68	7.39	6.16b	5.18	4.38	3.86	3.41	2.99	2.57	2.20	1.85
2.00	-	-	-	-	-	7.71b	7.44	6.06	5.05	4.36	3.84	3.40	2.95	2.54a	2.17	1.85
1.00	-	-	-	-	-	8.17	7.33	6.03	5.07	4.33	3.85	3.33	2.87	2.47	2.11	1.80
0.00	-	-	-	-	-	7.73	7.32	5.98	4.94	4.29	3.74	3.24	2.77	2.40	2.05	1.76
-1.00	-	-	-	-	-	8.46	7.15	5.82	4.84	4.13	3.61	3.09	2.67	2.29	1.97	-
-2.00	-	-	-	12.00	12.00	9.03	7.01	5.70	4.78	4.03	3.42	2.95	2.56	2.24	-	-
-3.00	-	12.00	12.00	12.00	12.00	8.97	7.07	5.60	4.64	3.91	3.33	2.90	2.54	-	-	-
-4.00	-	-	-	12.00	10.15	7.57	6.00	4.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL 50-100 (Minimum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	8.30	6.64	5.47	4.57	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	7.90	6.40	5.40	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	9.83	7.82	6.38	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	9.81	7.73	6.29a	5.32	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	10.64	8.32	6.83	5.80	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL 50-100 (Maximum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	6.34	5.42a	4.57a	4.43	3.96	3.57	3.17	2.80	1.78a
3.00	-	-	-	-	-	7.68b	7.80b	6.85b	5.89b	5.04	4.51	4.01	3.58	3.17	2.81	2.44a
2.00	-	-	-	-	-	7.71b	7.78	6.78	5.84b	5.07	4.35	3.99	3.57	3.14	2.79	2.45
1.00	-	-	-	-	-	8.70	8.02	6.77	5.76b	5.06	4.42	4.02	3.50	3.08	2.74	2.40
0.00	-	-	-	-	-	8.61	8.21	6.79	5.77	5.05	4.48	3.90a	3.41	3.03	2.69	2.35a
-1.00	-	-	-	-	-	9.36	8.07	6.72	5.69	4.93	4.26k	3.78	3.34	2.95	2.63	-
-2.00	-	-	-	12.00	12.00	9.89	7.94	6.60	5.63	4.84	4.13	3.65k	3.24	2.89	-	-
-3.00	-	12.00	12.00	12.00	12.00	9.84	7.99	6.51	5.51	4.73	4.09	3.62	3.23	-	-	-
-4.00	-	-	-	12.00	10.93	8.50	6.93	5.80	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL 50-100 (Minimum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.89k	9.03b	7.48b	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.93k	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL 50-100 (Maximum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		90%	


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.16b	7.97b	6.42b	5.77b	4.88a	4.91k	4.30a	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	8.00b	7.36b	6.49b	5.71b	4.93b	4.89b	4.11a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.71b	8.21b	7.57b	6.80b	6.02b	5.53b	4.94b	4.40a	2.94a
0.00	-	-	-	-	-	10.93b	10.34b	9.46b	8.71b	7.67b	6.83b	6.16b	5.59b	4.94a	4.45a	2.35a
-1.00	-	-	-	-	-	12.00	12.00b	10.17b	8.88b	7.73b	6.90k	6.20b	5.57b	4.76k	3.74a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.33b	8.93b	7.90b	6.95b	6.09b	4.68k	4.47a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.32b	8.66b	7.44b	6.25b	4.98b	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-


Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU 100-150 (Minimum Loads)	Hitch	CANT	+/- 10° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.07	2.43a	1.77a	1.78a	1.81a	1.79	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.01	2.66	1.99a	1.72a	1.72a	1.65	1.60	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	2.94	2.55	2.24	1.70a	1.69a	1.63	1.47	1.45
3.00	-	-	-	-	-	4.48	3.68	3.05	2.78	2.46	2.20	1.73a	1.75a	1.59	1.44	1.38
2.00	-	-	-	-	-	4.42	3.63	3.02	2.62	2.31	2.13	1.82a	1.72	1.55	1.41	1.33
1.00	-	-	-	-	-	4.32	3.61	3.04	2.54	2.27	2.04	1.86	1.67	1.52	1.38	1.34
0.00	-	-	-	-	-	4.34	3.56	2.98	2.51	2.23	2.00	1.82	1.65	1.49	1.38	1.35
-1.00	-	-	-	-	-	4.11	3.41	2.92	2.46	2.21	1.98	1.79	1.62	1.49	1.40	-
-2.00	-	-	-	6.41	4.92	4.07	3.39	2.90	2.49	2.20	1.97	1.79	1.63	1.53	-	-
-3.00	-	11.58k	8.17	6.17	4.90	4.01	3.37	2.88	2.53	2.23	2.01	1.82	1.81	-	-	-
-4.00	-	-	-	6.79	5.26	4.30	3.63	3.14	-	-	-	-	-	-	-	-


Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU 100-150 (Maximum Loads)	Hitch	CANT	+/- 10° Over Osc End		67%	


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.08	2.72	2.36	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.18a	3.09	2.73	2.38	2.10	1.83	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.44	3.08	2.72	2.41	2.13	1.86	1.64	-
4.00	-	-	-	-	-	5.02	4.44	3.84	3.45	3.02	2.68	2.40	2.13	1.87	1.65	1.45
3.00	-	-	-	-	-	5.28	4.55	3.88	3.32	2.99	2.66	2.38	2.12	1.87	1.64	1.45
2.00	-	-	-	-	-	5.35	4.50	3.83	3.33	2.95	2.64	2.38	2.10	1.84	1.63	1.43
1.00	-	-	-	-	-	5.22	4.48	3.82	3.34	2.93	2.62	2.32	2.04	1.80	1.58	1.40
0.00	-	-	-	-	-	4.49	4.32	3.71	3.19	2.87	2.54	2.26	1.98	1.74	1.55	1.38
-1.00	-	-	-	-	-	4.75	4.22	3.62	3.12	2.78	2.46	2.15	1.90	1.68	1.50	-
-2.00	-	-	-	6.92	6.14	4.97	4.15	3.55	3.09	2.68	2.34	2.06	1.83	1.65	-	-
-3.00	-	12.00	9.67	7.81	6.19	4.95	4.18	3.49	3.01	2.61	2.28	2.03	1.82	-	-	-
-4.00	-	-	-	6.82	5.37	4.37	3.68	3.14	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
3BU 100-150 (Minimum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		67%





	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30	1.90	1.82	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.93	1.62	1.40	1.25	-	-	-	-
6.00	-	-	-	-	-	-	-	2.31	1.91	1.63	1.40	1.18	1.01	0.96	-	-
5.00	-	-	-	-	-	2.75a	2.57	2.17	1.84	1.59	1.36	1.17	1.00	0.86	0.82	-
4.00	-	-	-	-	-	2.93	2.43	2.05	1.76	1.47	1.25	1.11	0.95	0.84	0.72	0.70
3.00	-	-	-	-	-	2.81	2.21	1.74	1.56	1.38	1.22	1.05	0.90	0.79	0.69	0.65
2.00	-	-	-	-	-	2.76	2.17	1.71	1.41	1.22	1.12	0.99	0.86	0.75	0.66	0.61
1.00	-	-	-	-	-	2.67	2.14	1.72	1.35	1.18	1.04	0.93	0.82	0.72	0.63	0.61
0.00	-	-	-	-	-	2.68	2.08	1.66	1.32	1.14	1.01	0.90	0.80	0.70	0.63	0.61
-1.00	-	-	-	-	-	2.44	1.94	1.60	1.28	1.12	0.98	0.87	0.77	0.69	0.64	-
-2.00	-	-	-	4.09	3.00	2.39	1.90	1.57	1.30	1.12	0.98	0.87	0.78	0.72	-	-
-3.00	-	10.62	5.42	3.89	2.96	2.34	1.88	1.56	1.34	1.15	1.01	0.90	0.90	-	-	-
-4.00	-	-	-	4.38	3.26	2.57	2.11	1.77	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety
3BU 100-150 (Maximum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		67%



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.53	2.24	1.88	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.25	1.93	1.66	1.38	-	-	-	-
6.00	-	-	-	-	-	-	-	2.31	2.21	1.93	1.67	1.44	1.20	0.99	-	-
5.00	-	-	-	-	-	2.96a	2.91	2.54	2.23	1.92	1.66	1.44	1.23	1.02	0.85	-
4.00	-	-	-	-	-	3.45	3.01	2.52	2.16	1.85	1.62	1.43	1.23	1.03	0.86	0.70
3.00	-	-	-	-	-	3.42	2.92	2.44	2.05	1.83	1.60	1.41	1.23	1.03	0.86	0.70
2.00	-	-	-	-	-	3.47	2.86	2.39	2.04	1.79	1.58	1.41	1.20	0.99	0.84	0.68
1.00	-	-	-	-	-	3.38	2.85	2.37	2.05	1.77	1.56	1.34	1.13	0.96	0.79	0.66
0.00	-	-	-	-	-	2.79	2.67	2.27	1.91	1.70	1.47	1.28	1.08	0.90	0.76	0.63
-1.00	-	-	-	-	-	2.90	2.57	2.16	1.82	1.61	1.40	1.17	0.99	0.84	0.71	-
-2.00	-	-	-	4.46	3.88	3.06	2.49	2.10	1.79	1.51	1.28	1.08	0.92	0.80	-	-
-3.00	-	11.04	6.63	5.14	3.93	3.05	2.52	2.04	1.70	1.43	1.21	1.05	0.91	-	-	-
-4.00	-	-	-	4.39	3.33	2.62	2.15	1.78	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU 100-150 (Minimum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.15	1.76	1.68	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.78	1.48	1.28	1.12	-	-	-	-
6.00	-	-	-	-	-	-	-	2.16	1.76	1.49	1.28	1.06	0.90	0.85	-	-
5.00	-	-	-	-	-	2.75a	2.41	2.02	1.70	1.45	1.23	1.05	0.89	0.75	0.71	-
4.00	-	-	-	-	-	2.75	2.25	1.89	1.61	1.33	1.12	0.99	0.83	0.73	0.62	0.60
3.00	-	-	-	-	-	2.62	2.04	1.58	1.40	1.24	1.09	0.93	0.78	0.68	0.58	0.52
2.00	-	-	-	-	-	2.58	1.99	1.55	1.25	1.08	0.99	0.87	0.75	0.64	0.53	0.47
1.00	-	-	-	-	-	2.48	1.96	1.55	1.19	1.03	0.90	0.81	0.70	0.61	0.49	0.46
0.00	-	-	-	-	-	2.49	1.89	1.50	1.17	1.00	0.87	0.77	0.68	0.58	0.49	0.46
-1.00	-	-	-	-	-	2.24	1.76	1.43	1.12	0.98	0.85	0.75	0.65	0.57	0.50	-
-2.00	-	-	-	3.87	2.78	2.19	1.72	1.40	1.14	0.97	0.84	0.75	0.66	0.61	-	-
-3.00	-	10.94	5.23	3.67	2.74	2.14	1.70	1.39	1.18	1.01	0.88	0.77	0.77	-	-	-
-4.00	-	-	-	4.17	3.05	2.37	1.92	1.60	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU 100-150 (Maximum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		67%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.46a	2.09	1.73	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.10	1.78	1.53	1.26	-	-	-	-
6.00	-	-	-	-	-	-	-	2.16	2.06	1.79	1.53	1.31	1.08	0.88	-	-
5.00	-	-	-	-	-	2.96a	2.73	2.38	2.08	1.78	1.53	1.32	1.11	0.91	0.75	-
4.00	-	-	-	-	-	3.27	2.83	2.35	2.01	1.71	1.49	1.30	1.11	0.92	0.75	0.60
3.00	-	-	-	-	-	3.23	2.74	2.27	1.90	1.68	1.46	1.28	1.11	0.91	0.75	0.60
2.00	-	-	-	-	-	3.27	2.68	2.22	1.89	1.64	1.44	1.28	1.09	0.88	0.73	0.57
1.00	-	-	-	-	-	3.18	2.66	2.21	1.90	1.63	1.43	1.22	1.01	0.85	0.68	0.53
0.00	-	-	-	-	-	2.59	2.49	2.10	1.76	1.55	1.34	1.16	0.95	0.78	0.65	0.49
-1.00	-	-	-	-	-	2.70	2.37	1.99	1.66	1.46	1.26	1.04	0.87	0.72	0.59	-
-2.00	-	-	-	4.25	3.66	2.85	2.30	1.92	1.63	1.35	1.14	0.95	0.80	0.69	-	-
-3.00	-	11.43	6.50	4.93	3.71	2.84	2.33	1.86	1.53	1.28	1.07	0.91	0.78	-	-	-
-4.00	-	-	-	4.18	3.11	2.42	1.96	1.61	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU 100-150 (Minimum Loads)	Hitch	CANT	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.14	1.76	1.68	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.78	1.48	1.28	1.12	-	-	-	-
6.00	-	-	-	-	-	-	-	2.16	1.76	1.49	1.28	1.06	0.90	0.85	-	-
5.00	-	-	-	-	-	2.75a	2.41	2.02	1.70	1.45	1.23	1.05	0.89	0.75	0.71	-
4.00	-	-	-	-	-	2.75	2.25	1.89	1.61	1.33	1.12	0.99	0.83	0.73	0.62	0.60
3.00	-	-	-	-	-	2.62	2.04	1.58	1.40	1.24	1.09	0.93	0.78	0.68	0.58	0.52
2.00	-	-	-	-	-	2.58	1.99	1.55	1.25	1.08	0.99	0.87	0.75	0.64	0.53	0.47
1.00	-	-	-	-	-	2.48	1.96	1.55	1.19	1.03	0.90	0.81	0.70	0.61	0.49	0.46
0.00	-	-	-	-	-	2.49	1.89	1.50	1.17	1.00	0.87	0.77	0.68	0.58	0.49	0.46
-1.00	-	-	-	-	-	2.24	1.76	1.43	1.12	0.98	0.85	0.75	0.65	0.57	0.50	-
-2.00	-	-	-	3.86	2.78	2.19	1.72	1.40	1.14	0.97	0.84	0.75	0.66	0.61	-	-
-3.00	-	10.94	5.23	3.67	2.74	2.14	1.70	1.39	1.18	1.01	0.88	0.77	0.77	-	-	-
-4.00	-	-	-	4.17	3.05	2.37	1.92	1.60	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU 100-150 (Maximum Loads)	Hitch	CANT	+/- 60° - +/- 120°		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.46a	2.09	1.73	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.10	1.78	1.53	1.26	-	-	-	-
6.00	-	-	-	-	-	-	-	2.16	2.06	1.79	1.53	1.31	1.08	0.88	-	-
5.00	-	-	-	-	-	2.96a	2.73	2.38	2.08	1.78	1.53	1.32	1.11	0.91	0.75	-
4.00	-	-	-	-	-	3.27	2.83	2.35	2.01	1.71	1.49	1.30	1.11	0.92	0.75	0.60
3.00	-	-	-	-	-	3.23	2.74	2.27	1.90	1.68	1.46	1.28	1.11	0.91	0.75	0.60
2.00	-	-	-	-	-	3.27	2.68	2.22	1.89	1.64	1.44	1.28	1.09	0.88	0.73	0.57
1.00	-	-	-	-	-	3.18	2.66	2.21	1.90	1.63	1.43	1.22	1.01	0.85	0.68	0.53
0.00	-	-	-	-	-	2.59	2.49	2.09	1.76	1.55	1.34	1.16	0.95	0.78	0.65	0.49
-1.00	-	-	-	-	-	2.70	2.37	1.99	1.66	1.46	1.26	1.04	0.87	0.72	0.59	-
-2.00	-	-	-	4.24	3.66	2.85	2.30	1.92	1.63	1.35	1.14	0.95	0.80	0.69	-	-
-3.00	-	11.43	6.50	4.93	3.71	2.84	2.33	1.86	1.53	1.28	1.07	0.91	0.78	-	-	-
-4.00	-	-	-	4.17	3.11	2.42	1.96	1.61	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU 100-150 (Minimum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.30	1.90	1.82	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.93	1.62	1.40	1.25	-	-	-	-
6.00	-	-	-	-	-	-	-	2.31	1.91	1.63	1.40	1.18	1.01	0.96	-	-
5.00	-	-	-	-	-	2.75a	2.57	2.17	1.84	1.59	1.36	1.17	1.00	0.86	0.82	-
4.00	-	-	-	-	-	2.93	2.43	2.05	1.76	1.47	1.25	1.11	0.95	0.84	0.72	0.70
3.00	-	-	-	-	-	2.81	2.21	1.74	1.56	1.38	1.22	1.05	0.90	0.79	0.69	0.65
2.00	-	-	-	-	-	2.76	2.17	1.71	1.41	1.22	1.12	0.99	0.86	0.75	0.66	0.61
1.00	-	-	-	-	-	2.67	2.14	1.72	1.35	1.18	1.04	0.93	0.82	0.72	0.63	0.61
0.00	-	-	-	-	-	2.68	2.08	1.66	1.32	1.14	1.01	0.90	0.80	0.70	0.63	0.61
-1.00	-	-	-	-	-	2.44	1.94	1.60	1.28	1.12	0.98	0.87	0.77	0.69	0.64	-
-2.00	-	-	-	4.09	3.00	2.39	1.90	1.57	1.30	1.12	0.98	0.87	0.78	0.72	-	-
-3.00	-	10.62	5.42	3.89	2.96	2.34	1.88	1.56	1.33	1.15	1.01	0.90	0.90	-	-	-
-4.00	-	-	-	4.38	3.26	2.57	2.11	1.77	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU 100-150 (Maximum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.53	2.24	1.88	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.25	1.93	1.66	1.38	-	-	-	-
6.00	-	-	-	-	-	-	-	2.31	2.21	1.93	1.67	1.44	1.20	0.99	-	-
5.00	-	-	-	-	-	2.96a	2.91	2.54	2.23	1.92	1.66	1.44	1.23	1.02	0.85	-
4.00	-	-	-	-	-	3.45	3.01	2.52	2.16	1.85	1.62	1.43	1.23	1.03	0.86	0.70
3.00	-	-	-	-	-	3.42	2.92	2.44	2.05	1.83	1.60	1.41	1.23	1.03	0.85	0.70
2.00	-	-	-	-	-	3.47	2.86	2.39	2.04	1.79	1.58	1.41	1.20	0.99	0.84	0.68
1.00	-	-	-	-	-	3.38	2.85	2.37	2.05	1.77	1.56	1.34	1.13	0.96	0.79	0.66
0.00	-	-	-	-	-	2.79	2.67	2.27	1.91	1.70	1.47	1.28	1.07	0.90	0.76	0.63
-1.00	-	-	-	-	-	2.90	2.57	2.16	1.82	1.61	1.40	1.17	0.99	0.84	0.71	-
-2.00	-	-	-	4.46	3.88	3.06	2.49	2.10	1.79	1.51	1.28	1.08	0.92	0.80	-	-
-3.00	-	11.04	6.63	5.14	3.93	3.05	2.52	2.04	1.70	1.43	1.21	1.05	0.91	-	-	-
-4.00	-	-	-	4.39	3.33	2.62	2.15	1.78	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU 100-150 (Minimum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.09	2.01	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.12	1.79	1.56	1.40	-	-	-	-
6.00	-	-	-	-	-	-	-	2.53	2.10	1.80	1.56	1.33	1.14	1.09	-	-
5.00	-	-	-	-	-	2.75a	2.82	2.39	2.04	1.76	1.51	1.31	1.13	0.98	0.94	-
4.00	-	-	-	-	-	3.16a	2.68	2.28	1.95	1.65	1.41	1.25	1.08	0.96	0.84	0.82
3.00	-	-	-	-	-	3.10	2.46	1.96	1.75	1.55	1.37	1.20	1.03	0.92	0.81	0.76
2.00	-	-	-	-	-	3.05	2.42	1.93	1.61	1.40	1.29	1.14	1.00	0.87	0.78	0.73
1.00	-	-	-	-	-	2.95	2.39	1.94	1.54	1.35	1.20	1.08	0.95	0.85	0.75	0.72
0.00	-	-	-	-	-	2.97	2.33	1.88	1.52	1.32	1.16	1.04	0.93	0.82	0.75	0.73
-1.00	-	-	-	-	-	2.73	2.19	1.81	1.47	1.30	1.14	1.02	0.90	0.82	0.76	-
-2.00	-	-	-	4.52	3.34	2.68	2.15	1.79	1.49	1.29	1.14	1.02	0.91	0.85	-	-
-3.00	-	11.58k	5.98	4.31	3.30	2.63	2.13	1.77	1.53	1.33	1.17	1.04	1.04	-	-	-
-4.00	-	-	-	4.85	3.62	2.87	2.37	2.00	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU 100-150 (Maximum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.70a	2.46	2.07	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.46	2.12	1.83	1.54	-	-	-	-
6.00	-	-	-	-	-	-	-	2.53	2.42	2.13	1.84	1.59	1.35	1.13	-	-
5.00	-	-	-	-	-	2.96a	3.13a	2.78	2.45	2.11	1.83	1.60	1.37	1.15	0.98	-
4.00	-	-	-	-	-	3.73a	3.29	2.76	2.38	2.05	1.79	1.58	1.37	1.16	0.98	0.82
3.00	-	-	-	-	-	3.76	3.20	2.68	2.26	2.02	1.77	1.57	1.37	1.16	0.98	0.82
2.00	-	-	-	-	-	3.81	3.14	2.63	2.26	1.98	1.75	1.56	1.35	1.13	0.96	0.80
1.00	-	-	-	-	-	3.71	3.13	2.62	2.27	1.96	1.73	1.50	1.28	1.09	0.91	0.77
0.00	-	-	-	-	-	3.08	2.96	2.51	2.13	1.89	1.64	1.44	1.22	1.03	0.88	0.75
-1.00	-	-	-	-	-	3.23	2.85	2.41	2.04	1.80	1.57	1.33	1.13	0.97	0.83	-
-2.00	-	-	-	4.94	4.30	3.40	2.78	2.34	2.01	1.70	1.45	1.23	1.06	0.93	-	-
-3.00	-	12.00	7.30	5.67	4.35	3.39	2.81	2.28	1.91	1.62	1.38	1.20	1.05	-	-	-
-4.00	-	-	-	4.86	3.70	2.92	2.40	2.00	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU 100-150 (Minimum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.77	1.60	-	-	-	-
6.00	-	-	-	-	-	-	-	2.78	2.33	2.02	1.77a	1.53	1.34	1.28	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.64	2.27	1.99	1.73	1.52	1.33	1.17	1.12	-
4.00	-	-	-	-	-	3.16a	2.96	2.55	2.20	1.88	1.63	1.46	1.28	1.15	1.01	1.00
3.00	-	-	-	-	-	3.38	2.74	2.23	2.01	1.79	1.59	1.41	1.23	1.10	0.98	0.93
2.00	-	-	-	-	-	3.34	2.70	2.20	1.87	1.64	1.52	1.36	1.20	1.06	0.96	0.90
1.00	-	-	-	-	-	3.24	2.67	2.21	1.80	1.60	1.43	1.29	1.15	1.04	0.93	0.90
0.00	-	-	-	-	-	3.26	2.62	2.15	1.78	1.56	1.39	1.25	1.13	1.01	0.92	0.90
-1.00	-	-	-	-	-	3.03	2.48	2.09	1.73	1.54	1.37	1.23	1.10	1.01	0.94	-
-2.00	-	-	-	4.81	3.65	2.99	2.45	2.07	1.75	1.53	1.36	1.23	1.11	1.04	-	-
-3.00	-	10.89	6.17	4.61	3.62	2.94	2.43	2.05	1.79	1.57	1.40	1.26	1.25	-	-	-
-4.00	-	-	-	5.12	3.93	3.18	2.66	2.28	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GU 100-150 (Maximum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.84a	2.70	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.70	2.35	2.06	1.75	-	-	-	-
6.00	-	-	-	-	-	-	-	2.78	2.66	2.36	2.06	1.80a	1.55	1.32	-	-
5.00	-	-	-	-	-	2.96a	3.26a	3.02	2.69	2.34	2.06	1.81	1.57	1.34	1.16	-
4.00	-	-	-	-	-	3.95	3.55	3.02	2.62	2.28	2.02	1.80	1.58	1.36	1.17	1.00
3.00	-	-	-	-	-	4.03	3.48	2.95	2.51	2.26	1.99	1.78	1.57	1.35	1.16	1.00
2.00	-	-	-	-	-	4.08	3.42	2.90	2.51	2.22	1.98	1.78	1.55	1.32	1.14	0.98
1.00	-	-	-	-	-	3.99	3.41	2.89	2.52	2.20	1.96	1.71	1.48	1.29	1.10	0.95
0.00	-	-	-	-	-	3.37	3.25	2.78	2.38	2.14	1.87	1.66	1.43	1.23	1.07	0.93
-1.00	-	-	-	-	-	3.53	3.15	2.69	2.30	2.04	1.80	1.55	1.34	1.17	1.02	-
-2.00	-	-	-	5.21	4.60	3.70	3.08	2.62	2.27	1.95	1.68	1.45	1.27	1.13	-	-
-3.00	-	11.23	7.35	5.89	4.64	3.69	3.10	2.57	2.18	1.88	1.62	1.43	1.26	-	-	-
-4.00	-	-	-	5.13	4.01	3.23	2.70	2.28	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU 100-150 (Minimum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	6.77	5.66	4.82	4.16	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	6.53	5.50	4.78	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	9.98	7.77	6.48	5.49	4.75	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	9.65	7.76	6.42	5.48	4.72	4.19	3.65k	3.13k	3.08	3.06	-	-	-
-4.00	-	-	-	10.55	8.25	6.80	5.80	5.06	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HU 100-150 (Maximum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		67%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.32a	2.97	2.32a	-
4.00	-	-	-	-	-	6.81b	6.64b	5.88	4.80	4.37	4.08	3.69	3.33	3.00	2.70	1.78a
3.00	-	-	-	-	-	7.48b	6.77	5.89	5.16	4.49	4.07	3.69	3.32	2.99	2.70	2.44
2.00	-	-	-	-	-	7.32b	6.80	5.84b	5.09	4.53	4.05	3.68	3.31	2.96	2.68	2.43
1.00	-	-	-	-	-	7.53b	6.83	5.81	5.09	4.51	4.07	3.66	3.25	2.92	2.65	2.40
0.00	-	-	-	-	-	6.98	6.71	5.78	5.00	4.49	4.02	3.61	3.20a	2.89	2.61	2.35a
-1.00	-	-	-	-	-	7.47	6.63	5.70	4.96	4.39	3.95	3.50	3.15	2.83	2.58	-
-2.00	-	-	-	10.76	9.60	7.80	6.55	5.62	4.92	4.33	3.81	3.42	3.08	2.80	-	-
-3.00	-	12.00	12.00	11.64	9.66	7.77	6.58	5.57	4.85	4.26	3.77	3.39	3.07	-	-	-
-4.00	-	-	-	10.60	8.43	6.93	5.87	5.07	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL 100-150 (Minimum Loads)	Hitch	CANT	+/- 10° Over Osc End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	7.52	6.12	5.11	4.31	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	7.16	5.90	5.04	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	11.65	8.71	7.10	5.88	5.00	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.18	8.69	7.01	5.85	4.97	4.26k	3.65k	3.13k	3.10	3.08	-	-	-
-4.00	-	-	-	12.00	9.35	7.51	6.28	5.39	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL 100-150 (Maximum Loads)	Hitch	CANT	+/- 10° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.01a	5.92	5.10	4.55	4.27b	3.82b	3.44	3.07	2.71	1.78a
3.00	-	-	-	-	-	7.68b	7.51	6.39	5.54	4.79	4.29	3.84	3.45	3.07	2.73	2.39
2.00	-	-	-	-	-	7.71b	7.49b	6.33	5.49	4.81	4.23b	3.84	3.43	3.02	2.70	2.38
1.00	-	-	-	-	-	8.12	7.46	6.33	5.47	4.79	4.24	3.83	3.36	2.97	2.65	2.33
0.00	-	-	-	-	-	7.78	7.45	6.33	5.39	4.76	4.25	3.74	3.28	2.92	2.59	2.31
-1.00	-	-	-	-	-	8.35	7.32	6.20	5.31	4.65	4.10	3.61	3.21	2.84	2.54	-
-2.00	-	-	-	12.00	11.12	8.77	7.21	6.09	5.26	4.56	3.94	3.50	3.12	2.79	-	-
-3.00	-	12.00	12.00	12.00	11.21	8.73	7.25	6.01	5.15	4.46	3.89	3.46	3.10	-	-	-
-4.00	-	-	-	12.00	9.57	7.66	6.36	5.40	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL 100-150 (Minimum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.74	1.66	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	2.78	1.99a	1.72a	1.72a	1.48	1.41	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.09	2.62	2.21	1.70a	1.65	1.44	1.24	1.21
3.00	-	-	-	-	-	4.93	3.93	3.15	2.84	2.47	2.16	1.73a	1.58	1.38	1.19	1.11
2.00	-	-	-	-	-	4.86	3.87	3.12	2.62	2.24	2.04	1.78	1.52	1.31	1.15	1.06
1.00	-	-	-	-	-	4.72	3.83	3.14	2.51	2.17	1.89	1.68	1.45	1.27	1.10	1.05
0.00	-	-	-	-	-	4.74	3.75	3.05	2.47	2.11	1.84	1.62	1.42	1.23	1.10	1.07
-1.00	-	-	-	-	-	4.40	3.55	2.96	2.39	2.08	1.80	1.58	1.38	1.23	1.13	-
-2.00	-	-	-	7.36	5.40	4.34	3.50	2.93	2.43	2.07	1.80	1.58	1.39	1.28	-	-
-3.00	-	11.58k	9.83	7.02	5.36	4.26	3.48	2.90	2.49	2.13	1.85	1.62	1.62	-	-	-
-4.00	-	-	-	7.89	5.85	4.63	3.83	3.24	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL 100-150 (Maximum Loads)	Hitch	CANT	+/- 10° - +/- 40° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	2.86	2.38	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.22a	2.89	2.45	2.07	1.72	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.51a	3.27	2.88	2.49	2.12	1.75	1.47	-
4.00	-	-	-	-	-	5.66	4.91	4.14	3.73	3.22	2.82	2.48	2.11	1.78	1.48	1.21
3.00	-	-	-	-	-	5.97	5.06	4.23	3.56	3.18	2.79	2.45	2.10	1.77	1.47	1.21
2.00	-	-	-	-	-	6.05	4.98	4.16	3.56	3.12	2.77	2.44	2.07	1.72	1.44	1.18
1.00	-	-	-	-	-	5.89	4.96	4.14	3.58	3.10	2.74	2.34	1.97	1.67	1.37	1.14
0.00	-	-	-	-	-	4.92	4.72	3.99	3.38	3.01	2.61	2.26	1.89	1.57	1.32	1.10
-1.00	-	-	-	-	-	5.20	4.57	3.85	3.26	2.87	2.49	2.09	1.75	1.48	1.24	-
-2.00	-	-	-	8.05	6.99	5.48	4.46	3.75	3.22	2.74	2.30	1.94	1.65	1.43	-	-
-3.00	-	12.00	12.00	9.31	7.07	5.46	4.51	3.68	3.09	2.63	2.20	1.89	1.63	-	-	-
-4.00	-	-	-	7.92	5.98	4.72	3.88	3.24	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL 100-150 (Minimum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.86	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.74	1.42	1.34	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.02	2.53	1.99a	1.72	1.41	1.15	1.08	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	2.88	2.32	1.89	1.61	1.32	1.11	0.91	0.88
3.00	-	-	-	-	-	5.16	3.86	2.93	2.55	2.16	1.83	1.52	1.23	1.04	0.86	0.78
2.00	-	-	-	-	-	5.07	3.78	2.88	2.28	1.88	1.68	1.42	1.18	0.97	0.81	0.73
1.00	-	-	-	-	-	4.88	3.73	2.90	2.16	1.80	1.52	1.32	1.10	0.92	0.76	0.72
0.00	-	-	-	-	-	4.91	3.64	2.80	2.11	1.74	1.47	1.25	1.06	0.88	0.76	0.73
-1.00	-	-	-	-	-	4.46	3.38	2.69	2.02	1.70	1.42	1.21	1.02	0.88	0.78	-
-2.00	-	-	-	9.21	5.88	4.38	3.32	2.65	2.06	1.69	1.41	1.21	1.03	0.92	-	-
-3.00	-	11.58k	10.99k	8.60	5.83	4.28	3.29	2.61	2.13	1.76	1.47	1.25	1.25	-	-	-
-4.00	-	-	-	10.27	6.56	4.78	3.72	3.02	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL 100-150 (Maximum Loads)	Hitch	CANT	+/- 40° - +/- 60° Over Osc End		90%	

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	2.64	2.12	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.15	2.66	2.20	1.78	1.39	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.48a	3.13	2.65	2.22	1.82	1.44	1.14	-
4.00	-	-	-	-	-	6.16	5.13	4.13	3.62	3.03	2.58	2.20	1.82	1.46	1.15	0.88
3.00	-	-	-	-	-	6.65	5.32	4.24	3.43	2.99	2.54	2.17	1.82	1.45	1.15	0.88
2.00	-	-	-	-	-	6.78	5.22	4.15	3.43	2.92	2.51	2.16	1.78	1.40	1.11	0.85
1.00	-	-	-	-	-	6.54	5.19	4.12	3.45	2.89	2.48	2.05	1.66	1.34	1.04	0.80
0.00	-	-	-	-	-	5.16	4.87	3.94	3.20	2.78	2.32	1.95	1.56	1.23	0.98	0.76
-1.00	-	-	-	-	-	5.57	4.69	3.76	3.06	2.62	2.19	1.75	1.40	1.13	0.90	-
-2.00	-	-	-	10.65	8.53	5.98	4.54	3.64	3.01	2.44	1.97	1.58	1.29	1.07	-	-
-3.00	-	12.00	12.00	12.00	8.66	5.95	4.60	3.54	2.85	2.30	1.85	1.53	1.27	-	-	-
-4.00	-	-	-	10.35	6.78	4.89	3.79	3.02	-	-	-	-	-	-	-	-





Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL 100-150 (Minimum Loads)	Hitch	CANT	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.86	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.74	1.42	1.34	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.02	2.53	1.99a	1.72	1.41	1.15	1.08	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	2.88	2.32	1.89	1.61	1.32	1.11	0.91	0.88
3.00	-	-	-	-	-	5.16	3.86	2.93	2.55	2.16	1.83	1.52	1.23	1.04	0.86	0.78
2.00	-	-	-	-	-	5.07	3.78	2.88	2.28	1.88	1.68	1.42	1.18	0.97	0.81	0.73
1.00	-	-	-	-	-	4.88	3.73	2.90	2.16	1.80	1.52	1.32	1.10	0.92	0.76	0.72
0.00	-	-	-	-	-	4.91	3.64	2.80	2.11	1.74	1.47	1.25	1.06	0.88	0.76	0.73
-1.00	-	-	-	-	-	4.46	3.38	2.69	2.02	1.70	1.42	1.21	1.02	0.88	0.78	-
-2.00	-	-	-	9.21	5.88	4.38	3.32	2.65	2.06	1.69	1.41	1.21	1.03	0.92	-	-
-3.00	-	11.58k	10.99k	8.60	5.83	4.28	3.29	2.61	2.13	1.76	1.47	1.25	1.25	-	-	-
-4.00	-	-	-	10.27	6.56	4.78	3.72	3.02	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL 100-150 (Maximum Loads)	Hitch	CANT	+/- 60° - +/- 120°		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	2.64	2.12	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.15	2.66	2.20	1.77	1.39	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.48a	3.13	2.65	2.22	1.82	1.44	1.14	-
4.00	-	-	-	-	-	6.16	5.13	4.13	3.62	3.03	2.58	2.20	1.82	1.46	1.15	0.88
3.00	-	-	-	-	-	6.65	5.32	4.24	3.43	2.99	2.54	2.17	1.82	1.45	1.15	0.88
2.00	-	-	-	-	-	6.78	5.22	4.15	3.43	2.92	2.51	2.16	1.78	1.40	1.11	0.85
1.00	-	-	-	-	-	6.54	5.19	4.12	3.45	2.89	2.48	2.05	1.66	1.34	1.04	0.80
0.00	-	-	-	-	-	5.16	4.87	3.94	3.20	2.78	2.32	1.95	1.56	1.23	0.98	0.76
-1.00	-	-	-	-	-	5.57	4.69	3.76	3.06	2.62	2.18	1.75	1.40	1.13	0.90	-
-2.00	-	-	-	10.65	8.53	5.98	4.54	3.64	3.00	2.44	1.97	1.58	1.29	1.07	-	-
-3.00	-	12.00	12.00	12.00	8.66	5.95	4.60	3.54	2.85	2.30	1.85	1.53	1.27	-	-	-
-4.00	-	-	-	10.35	6.78	4.89	3.79	3.02	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL 100-150 (Minimum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.05	1.99a	1.72a	1.72a	1.60	1.53	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	2.88	2.43	1.70a	1.69a	1.57	1.34	1.31
3.00	-	-	-	-	-	5.76	4.47	3.39k	3.12k	2.74	2.37	1.73a	1.72	1.50	1.29	1.21
2.00	-	-	-	-	-	5.67	4.41	3.49	2.92	2.48	2.25	1.82a	1.66	1.43	1.24	1.14
1.00	-	-	-	-	-	5.49	4.36	3.52	2.80	2.42	2.09	1.85	1.59	1.39	1.20	1.14
0.00	-	-	-	-	-	5.53	4.28	3.42	2.76	2.35	2.03	1.78	1.55	1.34	1.19	1.16
-1.00	-	-	-	-	-	5.13	4.04	3.32	2.68	2.31	1.99	1.74	1.51	1.34	1.22	-
-2.00	-	-	-	9.39	6.50	5.05	4.00	3.29	2.72	2.30	1.98	1.73	1.52	1.39	-	-
-3.00	-	11.58k	10.99k	8.89	6.46	4.97	3.97	3.26	2.78	2.36	2.04	1.78	1.77	-	-	-
-4.00	-	-	-	10.23	7.12	5.44	4.38	3.65	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL 100-150 (Maximum Loads)	Hitch	CANT	+/- 120° - +/- 130° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.13	2.66	2.26	1.86	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.54a	3.15	2.73	2.28	1.91	1.59	-
4.00	-	-	-	-	-	6.60	5.70	4.71	3.97	3.55	3.09	2.71	2.30	1.93	1.60	1.31
3.00	-	-	-	-	-	6.88b	5.85	4.81	3.98	3.52	3.05	2.69	2.29	1.92	1.59	1.31
2.00	-	-	-	-	-	6.98b	5.79	4.73	3.99	3.45	3.03	2.68	2.25a	1.87	1.56	1.28
1.00	-	-	-	-	-	7.04	5.77	4.71	4.01	3.42	3.00	2.57	2.16	1.81	1.49	1.23
0.00	-	-	-	-	-	5.77	5.49	4.54	3.77	3.33	2.87	2.48	2.06	1.71	1.43	1.19
-1.00	-	-	-	-	-	6.20	5.32	4.38	3.65	3.18	2.75	2.29	1.92	1.61	1.35	-
-2.00	-	-	-	10.53	8.84	6.58	5.20	4.27	3.60	3.03	2.55	2.14	1.81	1.56	-	-
-3.00	-	12.00	12.00	11.82k	8.94	6.55	5.25	4.18	3.47	2.92	2.44	2.09	1.79	-	-	-
-4.00	-	-	-	10.30	7.32	5.56	4.45	3.65	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL 100-150 (Minimum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.72	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.13	2.68	1.70a	1.69a	1.70a	1.52	1.49
3.00	-	-	-	-	-	5.95b	4.85	3.39k	3.12k	2.99	2.63	1.73a	1.75a	1.69	1.47	1.38
2.00	-	-	-	-	-	5.86b	4.78	3.81	3.13k	2.76	2.50	1.82a	1.81a	1.62	1.42	1.32
1.00	-	-	-	-	-	5.79b	4.74	3.84	3.08	2.70	2.35	1.92a	1.80	1.58	1.38	1.32
0.00	-	-	-	-	-	5.98	4.65	3.74	3.04	2.63	2.28	2.01	1.76	1.53	1.37	1.33
-1.00	-	-	-	-	-	5.58	4.42	3.65	2.96	2.59	2.24	1.97	1.72	1.53	1.41	-
-2.00	-	-	-	10.15	7.06	5.50	4.37	3.62	3.00	2.58	2.23	1.96	1.73	1.59	-	-
-3.00	-	11.58k	10.99k	9.62	7.02	5.41	4.35	3.58	3.07	2.64	2.29	2.01	2.00	-	-	-
-4.00	-	-	-	11.05	7.71	5.91	4.77	3.99	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL 100-150 (Maximum Loads)	Hitch	CANT	+/- 130° - +/- 140° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.24a	2.88	2.46	2.07	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.58	3.36	2.94	2.50a	2.10	1.77	-
4.00	-	-	-	-	-	6.81b	6.13	5.08	4.12	3.80	3.33	2.92	2.53	2.13	1.79	1.49
3.00	-	-	-	-	-	7.05	6.29	5.17b	4.30	3.78	3.28	2.91	2.52	2.10	1.79	1.49
2.00	-	-	-	-	-	7.19	6.11	5.08	4.31	3.68k	3.28	2.91	2.47	2.08	1.75	1.45
1.00	-	-	-	-	-	7.19b	6.15	5.08	4.24	3.69	3.25	2.81	2.38	2.02	1.68	1.41
0.00	-	-	-	-	-	6.23	5.93	4.91	4.09	3.58k	3.12	2.70	2.29	1.92	1.63	1.37
-1.00	-	-	-	-	-	6.72	5.77	4.76	3.97	3.46	3.00	2.54	2.14	1.82	1.54	-
-2.00	-	-	-	11.38	9.56	7.13	5.64	4.64	3.92	3.31	2.81	2.38	2.04	1.77	-	-
-3.00	-	12.00	12.00	12.00	9.67	7.10	5.69	4.55	3.79	3.20	2.72	2.34	2.01	-	-	-
-4.00	-	-	-	11.13	7.93	6.04	4.85	3.99	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL 100-150 (Minimum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		90%	



	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.70
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	2.91	1.92a	1.92a	1.94a	1.77	1.70
0.00	-	-	-	-	-	7.19	5.61	4.52	3.71	3.11k	2.57a	2.25a	2.19a	1.96	1.77	1.72
-1.00	-	-	-	-	-	6.76	5.36	4.44	3.57k	3.12k	2.71a	2.49	2.19	1.96	1.81	-
-2.00	-	-	-	12.00	8.61	6.68	5.32	4.40	3.32k	3.17k	2.80	2.48	2.21	2.03	-	-
-3.00	-	11.58k	10.99k	11.36k	8.58	6.59	5.29	4.36	3.74	3.23	2.86	2.53	2.52	-	-	-
-4.00	-	-	-	12.00	9.42	7.16	5.77	4.83	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3GL 100-150 (Maximum Loads)	Hitch	CANT	+/- 140° - +/- 160° Over Fixed End		90%	


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.60a	3.38	2.96a	2.55	2.21	-
4.00	-	-	-	-	-	6.81b	6.68	5.89b	4.63	4.21	3.83	3.40	2.98	2.58	2.21	1.78a
3.00	-	-	-	-	-	7.62b	7.19	6.03	5.10	4.33	3.83	3.39	2.97	2.57	2.20	1.86
2.00	-	-	-	-	-	7.56b	7.23	5.93	4.97	4.30	3.80	3.37	2.94	2.54a	2.17	1.85
1.00	-	-	-	-	-	7.96	7.17b	5.90	5.02b	4.28	3.82	3.31	2.85	2.47	2.11	1.81
0.00	-	-	-	-	-	7.49	7.11	5.86	4.86	4.24	3.71	3.22	2.76	2.40	2.06	1.77
-1.00	-	-	-	-	-	8.17	6.95	5.70	4.76	4.13k	3.58	3.08	2.66	2.29	1.97	-
-2.00	-	-	-	12.00	11.81	8.68	6.82	5.58	4.70	3.98	3.40	2.93	2.55	2.24	-	-
-3.00	-	12.00	12.00	12.00	11.93	8.63	6.87	5.49	4.57	3.87	3.30	2.89	2.53	-	-	-
-4.00	-	-	-	12.00	9.70	7.33	5.86	4.83	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL 100-150 (Minimum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		90%	


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.88a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.08a	2.43a	1.77a	1.78a	1.81a	1.80a	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	3.06a	3.19a	1.99a	1.72a	1.72a	1.72a	1.73a	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	3.16k	3.14k	2.88b	1.70a	1.69a	1.70a	1.70a	1.78a
3.00	-	-	-	-	-	5.95b	4.94b	3.39k	3.12k	3.14k	2.86b	1.73a	1.75a	1.73a	1.72a	1.73a
2.00	-	-	-	-	-	5.86b	4.92b	4.16b	3.13k	3.13k	2.78a	1.82a	1.81a	1.81a	1.75a	1.75a
1.00	-	-	-	-	-	5.79b	4.88b	4.19b	3.19k	3.13k	3.07a	1.92a	1.92a	1.94a	1.86a	1.84a
0.00	-	-	-	-	-	9.03b	7.07b	5.79b	5.04k	3.11k	2.57a	2.25a	2.19a	2.07a	1.98a	1.98a
-1.00	-	-	-	-	-	10.89k	9.03b	7.48b	3.57k	3.12k	2.71a	2.59a	2.46a	2.29a	2.20a	-
-2.00	-	-	-	12.00	10.93k	10.93k	7.15a	5.17a	3.32k	3.17k	3.07a	2.93a	2.62a	2.51a	-	-
-3.00	-	11.58k	10.99k	11.36k	11.43k	9.42a	6.29a	5.47a	4.26k	3.65k	3.13k	3.17k	3.14a	-	-	-
-4.00	-	-	-	12.00	12.00	9.97b	7.98a	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3HL 100-150 (Maximum Loads)	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		90%	


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.14a	3.03a	2.57a	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.21a	3.24a	3.25a	3.18a	2.92a	2.11a	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.56a	3.62a	3.61a	3.56a	3.40a	3.02a	2.32a	-
4.00	-	-	-	-	-	6.81b	7.50b	7.11b	5.53a	4.57a	4.52a	4.27a	4.04a	3.60a	3.09a	1.78a
3.00	-	-	-	-	-	7.68b	8.06b	8.16b	7.97b	6.42b	5.77b	4.88a	4.91k	4.30a	3.56a	2.44a
2.00	-	-	-	-	-	7.71b	7.93b	8.06b	8.00b	7.36b	6.49b	5.71b	4.93b	4.89b	4.11a	2.72a
1.00	-	-	-	-	-	8.87b	8.93b	8.71b	8.21b	7.57b	6.80b	6.02b	5.53b	4.94b	4.40a	2.94a
0.00	-	-	-	-	-	10.93b	10.34b	9.46b	8.71b	7.67b	6.83b	6.16b	5.59b	4.94a	4.45a	2.35a
-1.00	-	-	-	-	-	12.00	12.00b	10.17b	8.88b	7.73b	6.90k	6.20b	5.57b	4.76k	3.74a	-
-2.00	-	-	-	12.00	12.00	12.00	12.00	10.33b	8.93b	7.90b	6.95b	6.09b	4.68k	4.47a	-	-
-3.00	-	12.00	12.00	12.00	12.00	12.00	12.00	10.32b	8.66b	7.44b	6.25b	4.98b	3.96a	-	-	-
-4.00	-	-	-	12.00	12.00	10.54b	8.79b	7.21b	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AU 150+ (Minimum Loads)	Hitch	SUPER CANT	+/- 180°		67%


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.02	1.66	1.59	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.68	1.40	1.20	1.06	-	-	-	-
6.00	-	-	-	-	-	-	-	2.04	1.66	1.41	1.20	1.00	0.84	0.80	-	-
5.00	-	-	-	-	-	2.75a	2.26	1.90	1.60	1.37	1.16	0.99	0.83	0.70	0.67	-
4.00	-	-	-	-	-	2.57	2.10	1.76	1.51	1.25	1.05	0.92	0.78	0.68	0.56	0.53
3.00	-	-	-	-	-	2.44	1.90	1.47	1.30	1.16	1.02	0.87	0.73	0.63	0.51	0.45
2.00	-	-	-	-	-	2.40	1.86	1.44	1.16	1.00	0.92	0.80	0.69	0.59	0.47	0.41
1.00	-	-	-	-	-	2.31	1.83	1.45	1.11	0.96	0.84	0.75	0.65	0.54	0.43	0.40
0.00	-	-	-	-	-	2.32	1.76	1.39	1.08	0.92	0.81	0.71	0.63	0.51	0.42	0.40
-1.00	-	-	-	-	-	2.08	1.63	1.32	1.03	0.90	0.79	0.69	0.60	0.50	0.44	-
-2.00	-	-	-	3.53	2.57	2.03	1.59	1.30	1.05	0.90	0.78	0.69	0.61	0.54	-	-
-3.00	-	9.31	4.71	3.35	2.53	1.98	1.57	1.29	1.09	0.94	0.81	0.72	0.72	-	-	-
-4.00	-	-	-	3.80	2.81	2.20	1.79	1.49	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AU 150+ (Maximum Loads)	Hitch	SUPER CANT	+/- 180°		67%


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.34	1.98	1.64	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.98	1.69	1.45	1.19	-	-	-	-
6.00	-	-	-	-	-	-	-	2.04	1.94	1.69	1.45	1.24	1.02	0.83	-	-
5.00	-	-	-	-	-	2.96a	2.56	2.24	1.96	1.68	1.44	1.24	1.05	0.85	0.70	-
4.00	-	-	-	-	-	3.05	2.65	2.21	1.89	1.61	1.40	1.23	1.05	0.86	0.70	0.53
3.00	-	-	-	-	-	3.00	2.56	2.13	1.79	1.59	1.38	1.21	1.05	0.86	0.70	0.53
2.00	-	-	-	-	-	3.04	2.50	2.08	1.78	1.55	1.36	1.21	1.02	0.83	0.68	0.50
1.00	-	-	-	-	-	2.96	2.49	2.07	1.78	1.53	1.35	1.14	0.95	0.79	0.64	0.47
0.00	-	-	-	-	-	2.41	2.32	1.96	1.65	1.46	1.26	1.09	0.89	0.73	0.60	0.43
-1.00	-	-	-	-	-	2.49	2.21	1.86	1.55	1.37	1.18	0.98	0.81	0.67	0.52	-
-2.00	-	-	-	3.87	3.35	2.63	2.14	1.79	1.52	1.26	1.06	0.88	0.74	0.63	-	-
-3.00	-	9.68	5.79	4.46	3.39	2.63	2.16	1.73	1.43	1.19	0.99	0.85	0.72	-	-	-
-4.00	-	-	-	3.81	2.86	2.24	1.82	1.50	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AL 150+ (Minimum Loads)	Hitch	SUPER CANT	+/- 180°		90%


	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	2.40a	2.18a	2.20a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	2.21a	1.98a	1.88a	1.85	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.02	2.43a	1.77a	1.74	1.43	1.35	-	-
5.00	-	-	-	-	-	2.75a	2.89a	2.95a	2.93	2.48	1.99a	1.72	1.42	1.18	1.11	-
4.00	-	-	-	-	-	3.16a	3.11k	3.11k	2.80	2.28	1.88	1.62	1.33	1.14	0.94	0.92
3.00	-	-	-	-	-	4.76	3.65	2.83	2.48	2.13	1.82	1.53	1.26	1.07	0.89	0.82
2.00	-	-	-	-	-	4.68	3.58	2.79	2.24	1.87	1.68	1.44	1.20	1.00	0.85	0.77
1.00	-	-	-	-	-	4.51	3.54	2.81	2.12	1.80	1.53	1.34	1.13	0.96	0.80	0.76
0.00	-	-	-	-	-	4.54	3.45	2.71	2.08	1.74	1.48	1.27	1.10	0.91	0.80	0.77
-1.00	-	-	-	-	-	4.15	3.22	2.60	2.00	1.70	1.44	1.24	1.05	0.91	0.82	-
-2.00	-	-	-	7.71	5.29	4.07	3.17	2.57	2.03	1.69	1.43	1.23	1.06	0.96	-	-
-3.00	-	11.58k	10.99k	7.28	5.23	3.99	3.14	2.53	2.10	1.75	1.49	1.28	1.27	-	-	-
-4.00	-	-	-	8.43	5.82	4.41	3.52	2.91	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4AL 150+ (Maximum Loads)	Hitch	SUPER CANT	+/- 180°		90%

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	3.05a	2.95a	2.23a	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	3.15a	3.04	2.58	2.09	-	-	-	-
6.00	-	-	-	-	-	-	-	3.02a	3.18a	3.06	2.60	2.17	1.77	1.41	-	-
5.00	-	-	-	-	-	2.96a	3.27a	3.46a	3.47a	3.03	2.59	2.19	1.81	1.45	1.17	-
4.00	-	-	-	-	-	5.59	4.74	3.95	3.47	2.94	2.52	2.17	1.82	1.47	1.18	0.92
3.00	-	-	-	-	-	5.96	4.91	4.00	3.29	2.90	2.48	2.14	1.81	1.46	1.17	0.91
2.00	-	-	-	-	-	6.06	4.81	3.92	3.29	2.84	2.46	2.13	1.77	1.41	1.14	0.88
1.00	-	-	-	-	-	5.87	4.79	3.90	3.31	2.81	2.43	2.02	1.66	1.36	1.07	0.84
0.00	-	-	-	-	-	4.74	4.51	3.73	3.08	2.71	2.28	1.93	1.56	1.26	1.01	0.80
-1.00	-	-	-	-	-	5.05	4.35	3.57	2.95	2.55	2.15	1.75	1.42	1.16	0.93	-
-2.00	-	-	-	8.66	7.24	5.37	4.22	3.46	2.90	2.38	1.95	1.59	1.31	1.10	-	-
-3.00	-	12.00	12.00	10.48	7.34	5.35	4.27	3.37	2.76	2.26	1.84	1.54	1.29	-	-	-
-4.00	-	-	-	8.47	5.98	4.50	3.58	2.91	-	-	-	-	-	-	-	-


Duty	Lift Point	Config	Sector	Osc Axle	Safety
4Max Travel AU (Minimum Loads)	Hitch	SUPER CANT	+/- 180°		25%

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	0.76	0.62	0.59	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	0.63	0.52	0.45	0.40	-	-	-	-
6.00	-	-	-	-	-	-	-	0.76	0.62	0.53	0.45	0.37	0.31	0.30	-	-
5.00	-	-	-	-	-	1.10	0.84	0.71	0.60	0.51	0.43	0.37	0.31	0.26	0.25	-
4.00	-	-	-	-	-	0.96	0.78	0.66	0.57	0.47	0.39	0.34	0.29	0.25	0.21	0.21
3.00	-	-	-	-	-	0.91	0.71	0.55	0.49	0.43	0.38	0.32	0.27	0.24	0.20	0.19
2.00	-	-	-	-	-	0.90	0.69	0.54	0.43	0.37	0.34	0.30	0.26	0.22	0.19	0.18
1.00	-	-	-	-	-	0.86	0.68	0.54	0.41	0.36	0.31	0.28	0.24	0.21	0.18	0.17
0.00	-	-	-	-	-	0.86	0.66	0.52	0.40	0.35	0.30	0.27	0.24	0.20	0.18	0.18
-1.00	-	-	-	-	-	0.78	0.61	0.49	0.39	0.34	0.29	0.26	0.22	0.20	0.18	-
-2.00	-	-	-	1.32	0.96	0.76	0.59	0.48	0.39	0.33	0.29	0.26	0.23	0.21	-	-
-3.00	-	3.48	1.76	1.25	0.94	0.74	0.59	0.48	0.41	0.35	0.30	0.27	0.27	-	-	-
-4.00	-	-	-	1.42	1.05	0.82	0.67	0.56	-	-	-	-	-	-	-	-


Duty	Lift Point	Config	Sector	Osc Axle	Safety
4Max Travel AU (Maximum Loads)	Hitch	SUPER CANT	+/- 180°		25%

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	0.87	0.74	0.61	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	0.74	0.63	0.54	0.44	-	-	-	-
6.00	-	-	-	-	-	-	-	0.76	0.72	0.63	0.54	0.46	0.38	0.31	-	-
5.00	-	-	-	-	-	1.21	0.96	0.84	0.73	0.63	0.54	0.46	0.39	0.32	0.26	-
4.00	-	-	-	-	-	1.14	0.99	0.83	0.71	0.60	0.52	0.46	0.39	0.32	0.26	0.21
3.00	-	-	-	-	-	1.12	0.96	0.80	0.67	0.59	0.51	0.45	0.39	0.32	0.26	0.21
2.00	-	-	-	-	-	1.13	0.93	0.78	0.66	0.58	0.51	0.45	0.38	0.31	0.25	0.20
1.00	-	-	-	-	-	1.10	0.93	0.77	0.67	0.57	0.50	0.43	0.36	0.30	0.24	0.19
0.00	-	-	-	-	-	0.90	0.86	0.73	0.62	0.55	0.47	0.41	0.33	0.27	0.22	0.18
-1.00	-	-	-	-	-	0.93	0.82	0.69	0.58	0.51	0.44	0.36	0.30	0.25	0.21	-
-2.00	-	-	-	1.44	1.25	0.98	0.80	0.67	0.57	0.47	0.40	0.33	0.28	0.24	-	-
-3.00	-	3.61	2.16	1.66	1.27	0.98	0.81	0.65	0.53	0.44	0.37	0.32	0.27	-	-	-
-4.00	-	-	-	1.42	1.07	0.84	0.68	0.56	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety
4Max Cant AL (Minimum Loads)	Hitch	SUPER CANT	+/- 180°		25%

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	1.02	0.84	0.80	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	0.85	0.70	0.61	0.54	-	-	-	-
6.00	-	-	-	-	-	-	-	1.03	0.84	0.71	0.61	0.51	0.43	0.41	-	-
5.00	-	-	-	-	-	1.58	1.17	0.97	0.81	0.69	0.59	0.50	0.43	0.37	0.35	-
4.00	-	-	-	-	-	1.37	1.12	0.93	0.78	0.65	0.55	0.48	0.41	0.36	0.31	0.30
3.00	-	-	-	-	-	1.32	1.01	0.79	0.70	0.61	0.53	0.46	0.39	0.34	0.30	0.28
2.00	-	-	-	-	-	1.30	0.99	0.78	0.63	0.54	0.50	0.43	0.38	0.33	0.29	0.27
1.00	-	-	-	-	-	1.25	0.98	0.78	0.61	0.52	0.46	0.41	0.36	0.31	0.28	0.27
0.00	-	-	-	-	-	1.26	0.96	0.75	0.59	0.51	0.44	0.39	0.35	0.30	0.27	0.27
-1.00	-	-	-	-	-	1.15	0.90	0.73	0.57	0.50	0.43	0.38	0.34	0.30	0.28	-
-2.00	-	-	-	2.14	1.47	1.13	0.88	0.72	0.58	0.50	0.43	0.38	0.34	0.32	-	-
-3.00	-	10.28	3.13	2.02	1.45	1.11	0.87	0.71	0.60	0.51	0.45	0.39	0.39	-	-	-
-4.00	-	-	-	2.34	1.62	1.22	0.98	0.81	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety
4Max Cant AL (Maximum Loads)	Hitch	SUPER CANT	+/- 180°		25%

	0.50	1.00	1.50	2.00	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	-	-	-	-	-	-	-	1.20	1.00	0.82	-	-	-	-	-	-
7.00	-	-	-	-	-	-	-	-	1.00	0.85	0.72	0.60	-	-	-	-
6.00	-	-	-	-	-	-	-	1.03	0.98	0.85	0.73	0.62	0.52	0.43	-	-
5.00	-	-	-	-	-	1.77	1.34	1.15	1.00	0.84	0.72	0.62	0.53	0.44	0.37	-
4.00	-	-	-	-	-	1.65	1.40	1.14	0.96	0.82	0.71	0.62	0.53	0.44	0.37	0.30
3.00	-	-	-	-	-	1.65	1.36	1.11	0.91	0.81	0.70	0.61	0.53	0.44	0.37	0.30
2.00	-	-	-	-	-	1.68	1.34	1.09	0.91	0.79	0.69	0.61	0.52	0.43	0.36	0.30
1.00	-	-	-	-	-	1.63	1.33	1.08	0.92	0.78	0.68	0.58	0.49	0.41	0.34	0.29
0.00	-	-	-	-	-	1.32	1.25	1.04	0.86	0.75	0.64	0.56	0.47	0.39	0.33	0.28
-1.00	-	-	-	-	-	1.40	1.21	0.99	0.82	0.71	0.61	0.51	0.43	0.36	0.31	-
-2.00	-	-	-	2.41	2.01	1.49	1.17	0.96	0.81	0.67	0.56	0.47	0.40	0.35	-	-
-3.00	-	11.25	4.21	2.91	2.04	1.49	1.19	0.94	0.77	0.64	0.53	0.46	0.40	-	-	-
-4.00	-	-	-	2.35	1.66	1.25	1.00	0.81	-	-	-	-	-	-	-	-

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