

ROADRAILER

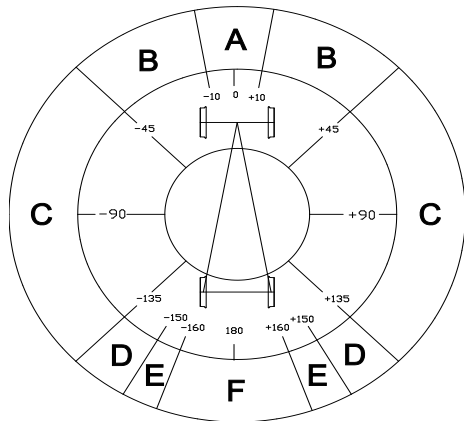
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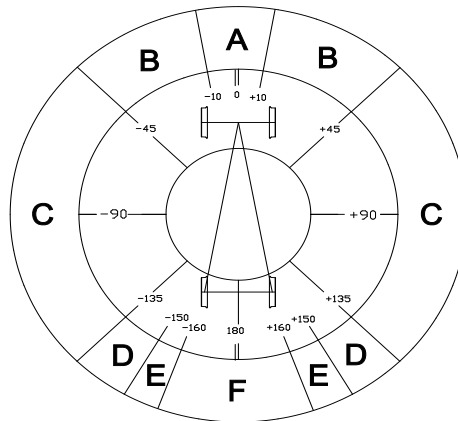
TEL:01823 433398

Oscillating Axle



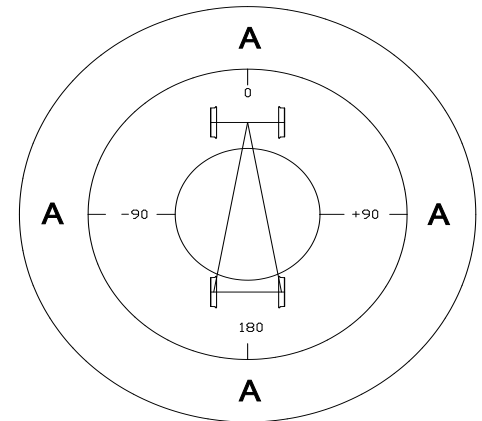
Fixed Axle
Road Duties

Oscillating Axle



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

Oscillating Axle



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

Machine fitted with permanently attached Quick Hitch

Standard Quick Hitch Lifting Eye Charts



Machine Type:	Komatsu PW160
Serial Number:	K40298
Rail Axle Number:	2069
Network Rail Number:	99709 940080-3
Equipment:	Boom 5.15m Arm 2.1m
Date:	10th March 2017
Issue:	2
Software Versions:	
Safety Controller	V1.26.0.10
I/O Controller 1	V1.26.0.10
I/O Controller 2	V1.26.0.10
MMI	V1.26.0.10

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



Radius / Height are given in METRES. Loads are given in TONNES, and assume that the load is suspended vertically below the lifting point with no other equipment attached. 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	PW160 Basic Mono	Equipment	5.15m + 2.10m
Issue Date	17/03/2017	Reference	2069 / RRV116
System Type	PME RAIL	Additional Info.	Monoboom

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AU	Hitch	ROAD	+/- 10° Over Osc End		71%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.46	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	3.88	3.44	3.03	2.34a	-	-	-
6.00	-	-	-	-	-	3.89	3.45	3.05	2.64	2.31	-	-
5.00	-	-	-	-	4.50	3.91	3.45	2.99	2.61	2.30	2.02	-
4.00	-	7.93	6.30	5.29	4.49	3.82	3.31	2.89	2.53	2.24	1.99	1.76
3.00	-	-	5.88	4.91	4.16	3.58	3.12	2.74	2.43	2.16	1.93	1.72
2.00	-	-	-	4.42	3.83	3.33	2.92	2.59	2.31	2.07	1.86	1.68
1.00	-	-	3.80a	4.12	3.56	3.12	2.76	2.46	2.20	1.98	1.79	1.62
0.00	-	-	-	4.74	3.97	3.41	2.98	2.64	2.35	2.12	1.91	1.74
-1.00	-	3.94a	4.74	3.98	3.37	2.92	2.57	2.29	2.06	1.87	1.70	1.56
-2.00	6.13a	6.05	4.93	4.03	3.40	2.94	2.58	2.30	2.07	1.89	1.71	-
-3.00	8.37	6.47	5.04	4.12	3.48	3.01	2.65	2.39	2.13	-	-	-
-4.00	8.16b	6.42	5.11	4.25	3.61	3.13	2.75	2.41	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BU	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.69	2.34	-	-	-	-	-	-
7.00	-	-	-	-	-	2.33	2.07	1.79	1.47	-	-	-
6.00	-	-	-	-	-	2.34	2.07	1.81	1.51	1.27	-	-
5.00	-	-	-	-	2.73	2.36	2.07	1.75	1.48	1.27	1.06	-
4.00	-	4.84	3.83	3.22	2.72	2.27	1.93	1.65	1.41	1.21	1.04	0.87
3.00	-	-	3.41	2.85	2.39	2.03	1.74	1.50	1.30	1.13	0.98	0.84
2.00	-	-	-	2.35	2.06	1.78	1.55	1.35	1.19	1.04	0.91	0.79
1.00	-	-	2.35	2.06	1.79	1.57	1.38	1.22	1.07	0.95	0.84	0.74
0.00	-	-	-	2.27	1.90	1.64	1.43	1.26	1.11	0.99	0.88	0.78
-1.00	-	2.92	2.29	1.91	1.60	1.37	1.19	1.05	0.94	0.83	0.75	0.68
-2.00	4.22	3.15	2.45	1.96	1.63	1.39	1.21	1.06	0.95	0.86	0.76	-
-3.00	4.69	3.37	2.56	2.06	1.71	1.46	1.27	1.15	1.00	-	-	-
-4.00	4.86b	3.59	2.78	2.24	1.90	1.64	1.39	1.17	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1CU	Hitch	ROAD	+/- 45° - +/- 135°		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.10	2.71	-	-	-	-	-	-
7.00	-	-	-	-	-	2.69	2.39	2.08	1.73	-	-	-
6.00	-	-	-	-	-	2.70	2.39	2.10	1.78	1.51	-	-
5.00	-	-	-	-	3.14	2.72	2.39	2.04	1.74	1.51	1.28	-
4.00	-	5.56	4.40	3.70	3.13	2.63	2.25	1.94	1.67	1.45	1.26	1.08
3.00	-	-	3.98	3.33	2.80	2.39	2.06	1.79	1.57	1.37	1.20	1.04
2.00	-	-	-	2.83	2.47	2.14	1.87	1.64	1.45	1.28	1.13	1.00
1.00	-	-	2.93	2.54	2.20	1.93	1.70	1.51	1.34	1.19	1.06	0.94
0.00	-	-	2.85	2.38	2.05	1.79	1.58	1.40	1.25	1.12	1.00	0.90
-1.00	-	3.64	2.87	2.39	2.01	1.73	1.51	1.34	1.20	1.08	0.97	0.88
-2.00	5.09	3.87	3.03	2.44	2.05	1.75	1.53	1.35	1.21	1.10	0.98	-
-3.00	5.65	4.09	3.14	2.54	2.12	1.82	1.59	1.44	1.27	-	-	-
-4.00	5.73b	4.28	3.36	2.72	2.31	2.00	1.71	1.46	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1DU	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1EU	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1FU	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1AL	Hitch	ROAD	+/- 10° Over Osc End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	4.43	3.89	3.39	2.34a	-	-	-
6.00	-	-	-	-	-	4.44	3.90	3.42	2.96	2.58	-	-
5.00	-	-	-	-	5.19	4.44	3.90	3.37	2.93	2.58	2.25	-
4.00	-	8.07k	7.56	6.16	5.18	4.36	3.75	3.25	2.85	2.51	2.23	1.97
3.00	-	-	7.09	5.78	4.82	4.10	3.55	3.10	2.74	2.43	2.16	1.93
2.00	-	-	-	5.24	4.46	3.84	3.34	2.95	2.61	2.33	2.09	1.88
1.00	-	-	3.80a	4.91	4.17	3.61	3.17	2.80	2.50	2.24	2.02	1.82
0.00	-	-	4.92a	4.75	4.01	3.46	3.04	2.69	2.41	2.17	1.96	1.78
-1.00	-	3.94a	5.78	4.76	3.97	3.40	2.96	2.63	2.35	2.12	1.93	1.76
-2.00	6.13a	7.22a	6.01	4.81	4.00	3.42	2.98	2.63	2.36	2.14	1.94	-
-3.00	8.61a	7.98	6.14	4.91	4.09	3.49	3.05	2.73	2.42	-	-	-
-4.00	8.16b	7.44b	6.11	4.97	4.18	3.58	3.12	2.75	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1BL	Hitch	ROAD	+/- 10° - +/- 45° Over Osc End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	4.31	3.76	3.25	2.34a	-	-	-
6.00	-	-	-	-	-	4.32	3.76	3.28	2.81	2.43	-	-
5.00	-	-	-	-	5.10	4.31	3.76	3.22	2.78	2.43	2.11	-
4.00	-	8.07k	7.66	6.13	5.09	4.23	3.61	3.11	2.70	2.36	2.08	1.83
3.00	-	-	7.14	5.72	4.71	3.97	3.40	2.95	2.59	2.28	2.02	1.79
2.00	-	-	-	5.14	4.33	3.68	3.18	2.79	2.46	2.18	1.94	1.74
1.00	-	-	3.80a	4.79	4.02	3.45	3.00	2.64	2.34	2.09	1.87	1.68
0.00	-	-	4.92a	4.61	3.85	3.29	2.86	2.52	2.24	2.01	1.81	1.63
-1.00	-	3.94a	5.73	4.62	3.80	3.22	2.79	2.45	2.18	1.96	1.77	1.62
-2.00	6.13a	7.22a	5.98	4.68	3.84	3.25	2.80	2.46	2.20	1.98	1.79	-
-3.00	8.61a	8.16	6.11	4.79	3.93	3.32	2.88	2.57	2.26	-	-	-
-4.00	8.16b	7.44b	6.08	4.88	4.03	3.43	2.96	2.58	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1CL	Hitch	ROAD	+/- 45° - +/- 135°		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	4.24	3.70	3.22	2.34a	-	-	-
6.00	-	-	-	-	-	4.26	3.71	3.24	2.77	2.39	-	-
5.00	-	-	-	-	5.02	4.25	3.71	3.18	2.74	2.39	2.07	-
4.00	-	8.07k	7.55	6.05	5.01	4.17	3.55	3.06	2.65	2.32	2.05	1.79
3.00	-	-	7.04	5.64	4.64	3.90	3.35	2.90	2.54	2.24	1.98	1.76
2.00	-	-	-	5.05	4.25	3.62	3.13	2.74	2.41	2.14	1.91	1.70
1.00	-	-	3.80a	4.70	3.95	3.39	2.94	2.59	2.29	2.05	1.83	1.65
0.00	-	-	4.92a	4.53	3.77	3.23	2.81	2.47	2.20	1.97	1.77	1.60
-1.00	-	3.94a	5.62	4.54	3.73	3.16	2.73	2.41	2.14	1.92	1.74	1.58
-2.00	6.13a	7.22a	5.87	4.59	3.77	3.18	2.75	2.41	2.15	1.94	1.75	-
-3.00	8.61a	8.05	6.00	4.71	3.86	3.26	2.82	2.52	2.21	-	-	-
-4.00	8.16b	7.44b	6.00	4.79	3.97	3.37	2.92	2.53	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1DL	Hitch	ROAD	+/- 135° - +/- 150° Over Fixed End		71%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1EL	Hitch	ROAD	+/- 150° - +/- 160° Over Fixed End		71%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
1FL	Hitch	ROAD	+/- 160° - +/- 180° Over Fixed End		71%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.70a	3.80a	-	-	-	-	-	-
7.00	-	-	-	-	-	5.40b	4.81a	3.78a	2.34a	-	-	-
6.00	-	-	-	-	-	5.19b	5.08b	4.69b	4.16a	3.16a	-	-
5.00	-	-	-	-	6.04b	5.60b	5.28	4.71b	4.22a	3.76	3.30a	-
4.00	-	8.07k	8.17b	7.16b	6.90b	6.02	5.26	4.70	4.15	3.70	3.32	2.97
3.00	-	-	9.98b	8.17	6.95	5.94	5.17	4.55	4.04	3.62	3.26	2.94
2.00	-	-	-	7.75	6.58	5.67	4.96	4.39	3.92	3.52	3.19	2.89
1.00	-	-	3.80a	7.36	6.29	5.45	4.78	4.25	3.80	3.43	3.12	2.84
0.00	-	-	4.92a	7.24	6.13	5.30	4.65	4.14	3.71	3.36	3.06	2.79
-1.00	-	3.94a	7.04a	7.20	6.09	5.23	4.58	4.07	3.66	3.31	3.02	2.77
-2.00	6.13a	7.22a	8.90	7.32	6.12	5.26	4.60	4.08	3.67	3.33	3.03	-
-3.00	8.61a	9.57b	8.53b	7.29	6.15	5.30	4.64	4.12	3.70	-	-	-
-4.00	8.16b	7.44b	6.50b	5.99b	5.31b	4.77b	4.12b	3.36b	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AU	Hitch	RAIL	+/- 10° Over Osc End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.47	3.89	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	3.91	3.48	3.07	2.66	-	-	-
6.00	-	-	-	-	-	3.92	3.48	3.07	2.69	2.36	-	-
5.00	-	-	-	5.28	4.52	3.94	3.45	3.02	2.66	2.35	2.08	-
4.00	-	7.79	6.26	5.26	4.45	3.81	3.32	2.91	2.58	2.29	2.05	1.83
3.00	-	-	5.72	4.83	4.13	3.58	3.14	2.78	2.47	2.21	1.99	1.79
2.00	-	-	-	4.39	3.82	3.35	2.96	2.64	2.36	2.13	1.92	1.74
1.00	-	-	4.00a	4.16	3.61	3.17	2.81	2.51	2.26	2.05	1.86	1.69
0.00	-	3.35a	4.81	4.04	3.48	3.05	2.71	2.43	2.19	1.98	1.81	1.65
-1.00	3.69a	5.53a	4.84	4.07	3.47	3.01	2.66	2.38	2.15	1.95	1.79	1.64
-2.00	6.55a	6.33	5.02	4.13	3.51	3.04	2.68	2.40	2.18	1.98	1.79	-
-3.00	8.47	6.44	5.12	4.22	3.60	3.12	2.78	2.49	2.22	-	-	-
-4.00	7.35b	6.39	5.14	4.29	3.67	3.19	2.82	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BU	Hitch	RAIL	+/- 10° - +/- 45° Over Osc End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.66	2.30	2.04	-	-	-	-	-
7.00	-	-	-	-	-	2.31	2.05	1.78	1.48	-	-	-
6.00	-	-	-	-	-	2.33	2.05	1.78	1.51	1.27	-	-
5.00	-	-	-	3.19	2.71	2.34	2.02	1.72	1.48	1.26	1.07	-
4.00	-	4.80	3.80	3.18	2.64	2.21	1.88	1.61	1.39	1.20	1.04	0.87
3.00	-	-	3.24	2.73	2.31	1.98	1.71	1.48	1.28	1.12	0.98	0.81
2.00	-	-	-	2.28	2.00	1.74	1.52	1.34	1.17	1.03	0.91	0.74
1.00	-	-	2.37	2.04	1.77	1.56	1.37	1.21	1.07	0.95	0.81	0.67
0.00	-	2.93	2.31	1.92	1.65	1.44	1.26	1.12	1.00	0.89	0.74	0.61
-1.00	3.69a	3.00	2.36	1.95	1.63	1.40	1.22	1.07	0.95	0.84	0.71	0.60
-2.00	4.32	3.27	2.51	2.01	1.67	1.43	1.24	1.09	0.99	0.88	0.72	-
-3.00	4.80	3.42	2.62	2.11	1.77	1.51	1.33	1.18	1.03	-	-	-
-4.00	4.85b	3.63	2.86	2.33	1.97	1.67	1.40	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CU	Hitch	RAIL	+/- 45° - +/- 135°		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.32	2.01	1.79	-	-	-	-	-
7.00	-	-	-	-	-	2.03	1.80	1.57	1.29	-	-	-
6.00	-	-	-	-	-	2.04	1.81	1.57	1.32	1.11	-	-
5.00	-	-	-	2.78	2.37	2.06	1.77	1.51	1.29	1.09	0.91	-
4.00	-	4.08	3.27	2.76	2.30	1.93	1.64	1.40	1.21	1.03	0.87	0.66
3.00	-	-	2.74	2.34	1.99	1.71	1.47	1.27	1.10	0.95	0.78	0.61
2.00	-	-	-	1.90	1.68	1.47	1.29	1.13	0.99	0.85	0.69	0.54
1.00	-	-	1.91	1.67	1.47	1.30	1.14	1.01	0.90	0.74	0.60	0.47
0.00	-	2.32	1.85	1.56	1.35	1.18	1.04	0.92	0.79	0.65	0.53	0.42
-1.00	3.22	2.39	1.91	1.59	1.33	1.14	1.00	0.88	0.73	0.60	0.50	0.40
-2.00	3.40	2.65	2.05	1.64	1.37	1.17	1.02	0.90	0.79	0.65	0.50	-
-3.00	3.84	2.78	2.15	1.74	1.46	1.25	1.11	0.99	0.84	-	-	-
-4.00	3.97b	3.02b	2.38	1.95	1.68	1.41	1.17	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DU	Hitch	RAIL	+/- 135° - +/- 150° Over Fixed End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.83	3.34	2.98	-	-	-	-	-
7.00	-	-	-	-	-	3.36	2.99	2.64	2.27	-	-	-
6.00	-	-	-	-	-	3.37	2.99	2.63	2.30	2.00	-	-
5.00	-	-	-	4.53	3.88	3.38	2.96	2.58	2.26	1.99	1.75	-
4.00	-	6.63	5.35	4.51	3.81	3.25	2.83	2.47	2.18	1.93	1.72	1.52
3.00	-	-	4.81	4.08	3.50	3.03	2.66	2.34	2.08	1.85	1.66	1.48
2.00	-	-	-	3.65	3.19	2.80	2.48	2.20	1.97	1.77	1.59	1.43
1.00	-	-	3.98	3.42	2.98	2.62	2.33	2.08	1.87	1.69	1.53	1.38
0.00	-	3.35a	3.93	3.31	2.85	2.51	2.23	1.99	1.80	1.63	1.48	1.35
-1.00	3.69a	4.90	3.98	3.33	2.84	2.47	2.18	1.95	1.75	1.59	1.46	1.33
-2.00	6.55a	5.20	4.12	3.39	2.88	2.50	2.20	1.97	1.79	1.62	1.46	-
-3.00	7.05	5.34	4.23	3.49	2.97	2.57	2.29	2.06	1.83	-	-	-
-4.00	6.98	5.35	4.32b	3.61b	3.08	2.68	2.36	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EU	Hitch	RAIL	+/- 150° - +/- 160° Over Fixed End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	4.77	4.29	3.81	2.98a	-	-	-
6.00	-	-	-	-	-	4.79	4.26	3.84	3.42	3.05	-	-
5.00	-	-	-	6.23	5.40	4.77	4.26	3.79	3.39	3.04	2.74	-
4.00	-	8.72	7.24	6.21	5.36	4.68	4.14	3.69	3.31	2.98	2.71	2.45
3.00	-	-	6.76	5.83	5.08	4.47	3.98	3.56	3.21	2.91	2.65	2.42
2.00	-	-	-	5.43	4.79	4.26	3.81	3.43	3.11	2.83	2.59	2.37
1.00	-	-	4.00a	5.22	4.59	4.09	3.67	3.32	3.02	2.75	2.53	2.32
0.00	-	3.35a	5.26a	5.11	4.48	3.98	3.57	3.23	2.95	2.70	2.48	2.29
-1.00	3.69a	5.53a	5.95	5.14	4.47	3.95	3.53	3.19	2.91	2.66	2.46	2.28
-2.00	6.55a	7.24	6.14	5.19	4.50	3.97	3.55	3.21	2.94	2.69	2.46	-
-3.00	9.19k	7.48	6.21	5.28	4.59	4.04	3.64	3.28	2.98	-	-	-
-4.00	7.35b	6.85b	6.03b	5.26b	4.58	4.05	3.62b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FU	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.04	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.05	4.52	4.03	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.07	4.51	4.04	3.60	3.23	-
4.00	-	10.00c	8.54b	7.46b	6.60	5.74	5.04	4.44	3.96	3.54	3.19	2.88
3.00	-	-	9.08	7.55	6.41	5.55	4.86	4.30	3.85	3.46	3.13	2.84
2.00	-	-	-	7.09	6.09	5.30	4.67	4.16	3.73	3.37	3.06	2.79
1.00	-	-	4.00a	6.83	5.86	5.11	4.52	4.03	3.63	3.29	3.00	2.74
0.00	-	3.35a	5.26a	6.70	5.73	4.99	4.41	3.94	3.55	3.23	2.95	2.71
-1.00	3.69a	5.53a	7.27a	6.75	5.72	4.95	4.36	3.89	3.51	3.19	2.93	2.44a
-2.00	6.55a	7.98a	8.26	6.81	5.76	4.98	4.38	3.91	3.55	3.22	2.84a	-
-3.00	9.19k	9.10b	8.16b	6.80	5.79b	5.02	4.43	3.95	3.56	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2AL	Hitch	RAIL	+/- 10° Over Osc End		75%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.14b	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.09b	4.80	4.30	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.35b	4.82	4.33a	3.86	3.44a	-
4.00	-	10.00c	8.54b	7.46b	7.14b	6.18	5.41	4.82	4.27	3.81	3.42	3.07
3.00	-	-	10.00c	8.42b	7.10	6.08	5.30	4.66	4.15	3.71	3.35	3.03
2.00	-	-	-	7.90	6.72	5.80	5.08	4.50	4.02	3.62	3.27	2.97
1.00	-	-	4.00a	7.36a	6.45	5.58	4.90	4.35	3.90	3.52	3.20	2.91
0.00	-	3.35a	5.26a	7.45	6.30	5.44	4.78	4.25	3.81	3.45	3.14	2.87
-1.00	3.69a	5.53a	7.27a	7.42	6.28	5.39	4.72	4.19	3.76	3.41	3.12	2.44a
-2.00	6.55a	7.98a	9.18	7.53	6.33	5.43	4.75	4.21	3.80	3.44	2.84a	-
-3.00	9.19k	9.10b	8.16b	7.31b	6.31b	5.44	4.76	4.24	3.81	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2BL	Hitch	RAIL	+/- 10° - +/- 45° Over Osc End		90%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.17	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	4.44	3.83	3.27	2.69	-	-	-
6.00	-	-	-	-	-	4.46	3.84	3.27	2.74	2.28	-	-
5.00	-	-	-	6.28	5.20	4.46a	3.79	3.19	2.69	2.26	1.90	-
4.00	-	10.00c	7.69	6.25	5.14	4.28	3.58	3.01	2.56	2.17	1.85	1.56
3.00	-	-	6.85	5.61	4.68	3.92	3.31	2.81	2.40	2.05	1.76	1.49
2.00	-	-	-	4.95	4.21	3.55	3.02	2.59	2.23	1.92	1.65	1.42
1.00	-	-	4.00a	4.60	3.86	3.26	2.79	2.40	2.08	1.80	1.56	1.35
0.00	-	3.35a	5.26a	4.43	3.66	3.08	2.63	2.26	1.96	1.70	1.48	1.29
-1.00	3.69a	5.53a	5.46	4.47	3.64	3.02	2.55	2.19	1.89	1.65	1.45	1.27
-2.00	6.55a	7.33	5.77	4.55	3.70	3.06	2.58	2.22	1.95	1.70	1.46	-
-3.00	9.19k	7.73	5.93	4.70	3.84	3.19	2.73	2.36	2.01	-	-	-
-4.00	7.35b	6.85b	5.85	4.74	3.93	3.30	2.81b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2CL	Hitch	RAIL	+/- 45° - +/- 135°		90%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.39	3.70	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	3.72	3.22	2.74	2.23	-	-	-
6.00	-	-	-	-	-	3.75	3.23	2.74	2.27	1.87	-	-
5.00	-	-	-	5.31	4.46	3.77	3.18	2.66	2.22	1.85	1.53	-
4.00	-	8.26	6.41	5.28	4.36	3.57	2.98	2.49	2.10	1.76	1.48	1.22
3.00	-	-	5.63	4.67	3.87	3.23	2.71	2.29	1.94	1.64	1.39	1.16
2.00	-	-	-	4.01	3.39	2.87	2.44	2.08	1.78	1.52	1.29	1.09
1.00	-	-	4.00a	3.65	3.05	2.59	2.21	1.89	1.63	1.40	1.19	1.01
0.00	-	3.35a	4.31	3.46	2.86	2.41	2.05	1.76	1.51	1.30	1.12	0.96
-1.00	3.69a	5.53a	4.40	3.51	2.84	2.35	1.98	1.69	1.45	1.25	1.09	0.94
-2.00	6.55a	6.08	4.61	3.60	2.90	2.40	2.01	1.72	1.51	1.30	1.10	-
-3.00	8.62b	6.29	4.76	3.75	3.04	2.51	2.15	1.86	1.56	-	-	-
-4.00	7.35b	6.21	4.84b	3.91	3.22	2.69	2.26	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2DL	Hitch	RAIL	+/- 135° - +/- 150° Over Fixed End		75%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	4.82	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	4.83b	4.28	3.78	3.32	-	-
5.00	-	-	-	6.43a	6.14b	5.52a	4.81b	4.27	3.76	3.32	2.95	-
4.00	-	10.00c	8.54b	7.46b	6.40b	5.50	4.75	4.15	3.66	3.25	2.91	2.60
3.00	-	-	8.89	7.28	6.11	5.23	4.54	3.99	3.54	3.16	2.84	2.56
2.00	-	-	-	6.73	5.73	4.95	4.33	3.83	3.41	3.06	2.76	2.50
1.00	-	-	4.00a	6.43	5.46	4.73	4.15	3.68	3.29	2.97	2.69	2.44
0.00	-	3.35a	5.26a	6.28	5.31	4.59	4.02	3.58	3.21	2.89	2.63	2.40
-1.00	3.69a	5.53a	7.27a	6.33	5.30	4.54	3.97	3.52	3.16	2.85	2.61	2.38
-2.00	6.55a	7.98a	7.94	6.40	5.34	4.57	3.99	3.54	3.20	2.89	2.61	-
-3.00	9.19k	9.10b	7.89	6.43	5.41	4.66	4.07	3.61b	3.24	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2EL	Hitch	RAIL	+/- 150° - +/- 160° Over Fixed End		75%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.14b	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.09b	4.96b	4.49	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.35b	5.00	4.52b	4.08	3.55a	-
4.00	-	10.00c	8.54b	7.46b	7.14b	6.34	5.61	5.01	4.50	4.03	3.64	3.21a
3.00	-	-	10.00c	8.47	7.26	6.31	5.53	4.90	4.38	3.94	3.57	3.24
2.00	-	-	-	8.08	6.94	6.04	5.33	4.74	4.26	3.85	3.50	3.19
1.00	-	-	4.00a	7.36a	6.68	5.83	5.15	4.60	4.14	3.76	3.43	3.13
0.00	-	3.35a	5.26a	7.65	6.54	5.70	5.03	4.50	4.06	3.69	3.37	3.09
-1.00	3.69a	5.53a	7.27a	7.63	6.52	5.65	4.98	4.45	4.01	3.65	3.34	2.44a
-2.00	6.55a	7.98a	9.28	7.71	6.57	5.68	5.00	4.47	4.04	3.68	2.84a	-
-3.00	9.19k	9.10b	8.16b	7.31b	6.52	5.67	5.01	4.47	4.03	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
2FL	Hitch	RAIL	+/- 160° - +/- 180° Over Fixed End		75%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.14b	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.09b	4.96b	4.51	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.35b	5.01	4.52b	4.09	3.55a	-
4.00	-	10.00c	8.54b	7.46b	7.14b	6.36	5.61b	5.03	4.52	4.05	3.65	3.21a
3.00	-	-	10.00c	8.50	7.29	6.33	5.55	4.92	4.40	3.96	3.59	3.26
2.00	-	-	-	8.11	6.96	6.06	5.34	4.76	4.27	3.86	3.51	3.20
1.00	-	-	4.00a	7.36a	6.71	5.85	5.17	4.62	4.16	3.77	3.44	3.15
0.00	-	3.35a	5.26a	7.67	6.56	5.72	5.05	4.52	4.07	3.70	3.38	3.10
-1.00	3.69a	5.53a	7.27a	7.66	6.55	5.67	5.00	4.46	4.03	3.66	3.36	2.44a
-2.00	6.55a	7.98a	9.31	7.74	6.59b	5.71	5.02	4.49	4.06	3.69	2.84a	-
-3.00	9.19k	9.10b	8.16b	7.31b	6.54b	5.69	5.02	4.49	4.04	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AU	Hitch	CANT	+/- 10° Over Osc End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.62	3.13	2.78	-	-	-	-	-
7.00	-	-	-	-	-	3.15	2.79	2.44	2.08	-	-	-
6.00	-	-	-	-	-	3.16	2.79	2.44	2.11	1.82	-	-
5.00	-	-	-	4.33	3.67	3.18	2.76	2.39	2.07	1.81	1.57	-
4.00	-	6.55	5.18	4.31	3.60	3.04	2.62	2.27	1.99	1.74	1.54	1.35
3.00	-	-	4.61	3.86	3.27	2.81	2.44	2.13	1.88	1.66	1.48	1.31
2.00	-	-	-	3.40	2.95	2.57	2.26	1.99	1.77	1.58	1.41	1.26
1.00	-	-	3.72	3.16	2.73	2.38	2.10	1.87	1.67	1.50	1.34	1.21
0.00	-	3.35a	3.66	3.04	2.60	2.26	2.00	1.78	1.59	1.43	1.29	1.17
-1.00	3.69a	4.67	3.72	3.07	2.58	2.22	1.95	1.73	1.55	1.40	1.27	1.16
-2.00	6.54	5.00	3.87	3.13	2.62	2.25	1.97	1.75	1.59	1.43	1.28	-
-3.00	7.03	5.14	3.98	3.23	2.72	2.33	2.06	1.84	1.62	-	-	-
-4.00	6.96	5.19	4.10	3.39b	2.87	2.47	2.13	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BU	Hitch	CANT	+/- 10° - +/- 45° Over Osc End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.20	1.91	1.70	-	-	-	-	-
7.00	-	-	-	-	-	1.92	1.71	1.48	1.22	-	-	-
6.00	-	-	-	-	-	1.94	1.72	1.48	1.25	1.04	-	-
5.00	-	-	-	2.63	2.24	1.95	1.68	1.43	1.22	1.03	0.83	-
4.00	-	3.83	3.08	2.61	2.18	1.82	1.55	1.32	1.13	0.97	0.78	0.58
3.00	-	-	2.56	2.19	1.87	1.60	1.38	1.19	1.03	0.88	0.70	0.53
2.00	-	-	-	1.77	1.57	1.37	1.21	1.06	0.92	0.76	0.60	0.46
1.00	-	-	1.74	1.54	1.36	1.20	1.06	0.93	0.80	0.65	0.51	0.39
0.00	-	2.10	1.69	1.42	1.23	1.08	0.96	0.84	0.69	0.56	0.44	0.34
-1.00	2.91	2.17	1.74	1.45	1.22	1.05	0.91	0.77	0.63	0.51	0.42	0.32
-2.00	3.09	2.42	1.88	1.51	1.26	1.07	0.93	0.80	0.68	0.55	0.42	-
-3.00	3.52	2.56	1.98	1.60	1.35	1.15	1.02	0.91	0.73	-	-	-
-4.00	3.68	2.81	2.21	1.81	1.57	1.31	1.09	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CU	Hitch	CANT	+/- 45° - +/- 135°		67%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	2.10	1.82	1.62	-	-	-	-	-
7.00	-	-	-	-	-	1.83	1.63	1.41	1.16	-	-	-
6.00	-	-	-	-	-	1.85	1.64	1.41	1.18	0.98	-	-
5.00	-	-	-	2.51	2.14	1.86	1.60	1.36	1.15	0.97	0.74	-
4.00	-	3.66	2.94	2.49	2.08	1.73	1.47	1.25	1.07	0.90	0.70	0.51
3.00	-	-	2.42	2.07	1.77	1.51	1.30	1.12	0.97	0.79	0.61	0.45
2.00	-	-	-	1.65	1.47	1.28	1.13	0.98	0.84	0.67	0.52	0.38
1.00	-	-	1.61	1.42	1.25	1.11	0.98	0.85	0.70	0.56	0.43	0.31
0.00	-	1.93	1.55	1.31	1.13	0.99	0.88	0.73	0.59	0.47	0.36	0.26
-1.00	2.69	2.00	1.60	1.33	1.12	0.96	0.82	0.66	0.53	0.42	0.33	0.24
-2.00	2.87	2.25	1.74	1.39	1.16	0.98	0.85	0.69	0.59	0.46	0.34	-
-3.00	3.30	2.39	1.84	1.48	1.24	1.06	0.94	0.82	0.64	-	-	-
-4.00	3.50	2.64	2.07	1.69	1.47	1.22	1.01	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DU	Hitch	CANT	+/- 135° - +/- 150° Over Fixed End		67%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.02	2.65	2.39	-	-	-	-	-
7.00	-	-	-	-	-	2.67	2.40	2.12	1.82	-	-	-
6.00	-	-	-	-	-	2.68	2.40	2.12	1.84	1.60	-	-
5.00	-	-	-	3.52	3.06	2.69	2.37	2.07	1.81	1.59	1.38	-
4.00	-	4.93	4.08	3.51	3.00	2.57	2.25	1.97	1.73	1.53	1.35	1.19
3.00	-	-	3.60	3.12	2.71	2.37	2.08	1.84	1.63	1.45	1.30	1.15
2.00	-	-	-	2.73	2.43	2.15	1.92	1.71	1.53	1.37	1.23	1.11
1.00	-	-	2.86	2.52	2.23	1.99	1.78	1.60	1.44	1.30	1.17	1.06
0.00	-	3.35a	2.81	2.41	2.11	1.88	1.68	1.51	1.37	1.24	1.13	1.03
-1.00	3.69a	3.45	2.86	2.44	2.10	1.84	1.64	1.47	1.33	1.21	1.11	1.01
-2.00	4.54	3.68	2.98	2.49	2.14	1.87	1.66	1.49	1.36	1.23	1.11	-
-3.00	4.91	3.80	3.08	2.58	2.22	1.94	1.74	1.57	1.40	-	-	-
-4.00	4.94	3.94	3.25b	2.75	2.38	2.09	1.80	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EU	Hitch	CANT	+/- 150° - +/- 160° Over Fixed End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.64	4.05	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	4.07	3.62	3.21	2.79	-	-	-
6.00	-	-	-	-	-	4.08	3.63	3.21	2.82	2.48	-	-
5.00	-	-	-	5.46	4.69	4.09	3.59	3.16	2.79	2.47	2.19	-
4.00	-	8.00	6.46	5.45	4.62	3.97	3.46	3.05	2.70	2.41	2.16	1.93
3.00	-	-	5.93	5.02	4.31	3.74	3.29	2.91	2.60	2.33	2.10	1.89
2.00	-	-	-	4.59	4.00	3.51	3.11	2.78	2.49	2.25	2.03	1.84
1.00	-	-	4.00a	4.36	3.79	3.33	2.96	2.65	2.39	2.17	1.97	1.79
0.00	-	3.35a	5.03	4.24	3.66	3.22	2.86	2.57	2.32	2.11	1.92	1.76
-1.00	3.69a	5.53a	5.05	4.27	3.65	3.18	2.81	2.52	2.28	2.07	1.90	1.75
-2.00	6.55a	6.57	5.24	4.33	3.69	3.21	2.83	2.54	2.31	2.10	1.90	-
-3.00	8.62b	6.65	5.34	4.42	3.78	3.28	2.93	2.63	2.35	-	-	-
-4.00	7.35b	6.59	5.34	4.47	3.83	3.35	2.96	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FU	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		67%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.04	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.05	4.52	4.03	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.07	4.51	4.04	3.60	3.23	-
4.00	-	10.00c	8.54b	7.46b	6.60	5.74	5.04	4.44	3.96	3.54	3.19	2.88
3.00	-	-	9.08	7.55	6.41	5.55	4.86	4.30	3.85	3.46	3.13	2.84
2.00	-	-	-	7.09	6.09	5.30	4.67	4.16	3.73	3.37	3.06	2.79
1.00	-	-	4.00a	6.83	5.86	5.11	4.52	4.03	3.63	3.29	3.00	2.74
0.00	-	3.35a	5.26a	6.70	5.73	4.99	4.41	3.94	3.55	3.23	2.95	2.71
-1.00	3.69a	5.53a	7.27a	6.75	5.72	4.95	4.36	3.89	3.51	3.19	2.93	2.44a
-2.00	6.55a	7.98a	8.26	6.81	5.76	4.98	4.38	3.91	3.55	3.22	2.84a	-
-3.00	9.19k	9.10b	8.16b	6.80	5.79b	5.02	4.43	3.95	3.56	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3AL	Hitch	CANT	+/- 10° Over Osc End		90%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	4.94	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	4.95	4.33	3.78	3.25	-	-
5.00	-	-	-	6.43a	6.14b	5.67	4.94	4.34	3.76	3.23	2.78	-
4.00	-	10.00c	8.54b	7.46b	6.60	5.68	4.88	4.21	3.62	3.13	2.73	2.36
3.00	-	-	9.41	7.62	6.33	5.37	4.63	3.99	3.46	3.01	2.63	2.30
2.00	-	-	-	6.94	5.86	5.02	4.37	3.77	3.29	2.88	2.53	2.22
1.00	-	-	4.00a	6.56	5.53	4.75	4.12	3.58	3.13	2.76	2.43	2.15
0.00	-	3.35a	5.26a	6.37	5.34	4.58	3.96	3.44	3.01	2.66	2.36	2.09
-1.00	3.69a	5.53a	7.27a	6.44	5.32	4.52	3.88	3.36	2.95	2.60	2.33	2.07
-2.00	6.55a	7.98a	8.20	6.53	5.38	4.57	3.92	3.39	3.01	2.65	2.33	-
-3.00	9.19k	9.10b	8.13	6.56b	5.47	4.67	4.03b	3.50b	3.06	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3BL	Hitch	CANT	+/- 10° - +/- 45° Over Osc End		90%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	4.46	3.77	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	3.80	3.29	2.81	2.29	-	-	-
6.00	-	-	-	-	-	3.82	3.30	2.80	2.34	1.93	-	-
5.00	-	-	-	5.36	4.52	3.84	3.24	2.73	2.29	1.91	1.59	-
4.00	-	8.27	6.46	5.34	4.43	3.64	3.05	2.56	2.16	1.82	1.54	1.28
3.00	-	-	5.69	4.74	3.95	3.30	2.79	2.36	2.01	1.71	1.45	1.22
2.00	-	-	-	4.10	3.48	2.95	2.52	2.15	1.84	1.58	1.35	1.14
1.00	-	-	4.00a	3.74	3.14	2.67	2.29	1.97	1.70	1.46	1.26	1.07
0.00	-	3.35a	4.40	3.56	2.95	2.50	2.13	1.84	1.59	1.37	1.18	1.02
-1.00	3.69a	5.53a	4.48	3.60	2.93	2.44	2.06	1.76	1.52	1.32	1.15	1.00
-2.00	6.55a	6.14	4.69	3.69	2.99	2.48	2.09	1.79	1.58	1.36	1.16	-
-3.00	8.62b	6.34b	4.84	3.84	3.13	2.60	2.23	1.93	1.63	-	-	-
-4.00	7.35b	6.27b	4.87	4.00	3.28	2.77	2.33	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3CL	Hitch	CANT	+/- 45° - +/- 135°		90%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.93	3.31	2.87	-	-	-	-	-
7.00	-	-	-	-	-	3.34	2.89	2.45	1.97	-	-	-
6.00	-	-	-	-	-	3.36	2.90	2.45	2.02	1.65	-	-
5.00	-	-	-	4.78	4.00	3.38	2.84	2.37	1.97	1.63	1.32	-
4.00	-	7.31	5.74	4.76	3.89	3.18	2.65	2.21	1.85	1.54	1.28	1.03
3.00	-	-	4.98	4.14	3.42	2.85	2.39	2.01	1.69	1.42	1.19	0.98
2.00	-	-	-	3.48	2.95	2.50	2.12	1.80	1.53	1.30	1.09	0.90
1.00	-	-	3.76	3.12	2.63	2.23	1.90	1.62	1.38	1.18	1.00	0.83
0.00	-	3.35a	3.66	2.94	2.44	2.05	1.74	1.49	1.27	1.09	0.92	0.78
-1.00	3.69a	4.79	3.75	2.99	2.42	2.00	1.68	1.42	1.21	1.04	0.90	0.76
-2.00	6.55a	5.23	3.97	3.07	2.48	2.04	1.71	1.45	1.27	1.08	0.90	-
-3.00	7.46	5.43	4.13	3.22	2.61	2.15	1.84	1.58	1.32	-	-	-
-4.00	7.35b	5.45	4.31	3.44	2.83	2.36	1.94	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3DL	Hitch	CANT	+/- 135° - +/- 150° Over Fixed End		75%	



	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.10b	4.46	3.91	2.98a	-	-	-
6.00	-	-	-	-	-	5.12	4.47	3.95	3.47	3.05	-	-
5.00	-	-	-	6.43a	5.85	5.09b	4.45	3.91	3.44	3.04	2.69	-
4.00	-	10.00c	8.35	6.95	5.86	4.98	4.32	3.78	3.34	2.97	2.66	2.38
3.00	-	-	7.82	6.49	5.49	4.72	4.12	3.62	3.22	2.88	2.59	2.33
2.00	-	-	-	5.97	5.12	4.45	3.91	3.47	3.09	2.78	2.51	2.27
1.00	-	-	4.00a	5.67	4.87	4.24	3.74	3.32	2.98	2.69	2.44	2.22
0.00	-	3.35a	5.26a	5.55	4.72	4.10	3.61	3.22	2.90	2.62	2.38	2.18
-1.00	3.69a	5.53a	6.71	5.58	4.70	4.06	3.56	3.17	2.85	2.58	2.36	2.16
-2.00	6.55a	7.98a	6.97	5.65	4.75	4.09	3.58	3.19	2.89	2.61	2.36	-
-3.00	9.19k	8.85	6.99b	5.75	4.86	4.18	3.68	3.28	2.93	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.83	4.17	3.66	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

Prolec Machine Engine Load Chart Builder



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3EL	Hitch	CANT	+/- 150° - +/- 160° Over Fixed End		75%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	4.89b	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	4.90b	4.33	3.88a	3.42	-	-
5.00	-	-	-	6.43a	6.14b	5.56	4.88	4.34	3.87	3.43	3.06	-
4.00	-	10.00c	8.54b	7.45	6.40b	5.55	4.83	4.25	3.77	3.36	3.02	2.72
3.00	-	-	8.69	7.23	6.13	5.30	4.63	4.09	3.65	3.27	2.96	2.67
2.00	-	-	-	6.72	5.78	5.03	4.43	3.94	3.53	3.18	2.88	2.62
1.00	-	-	4.00a	6.43	5.52	4.82	4.26	3.80	3.41	3.09	2.81	2.56
0.00	-	3.35a	5.26a	6.28	5.38	4.68	4.14	3.69	3.33	3.02	2.75	2.52
-1.00	3.69a	5.53a	7.27a	6.34	5.36	4.64	4.08	3.64	3.28	2.98	2.73	2.44a
-2.00	6.55a	7.98a	7.83	6.40	5.41	4.67	4.11	3.66	3.32	3.01	2.73	-
-3.00	9.19k	9.10b	7.79	6.43	5.47	4.74	4.17	3.72b	3.36	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-



Duty	Lift Point	Config	Sector	Osc Axle	Safety	
3FL	Hitch	CANT	+/- 160° - +/- 180° Over Fixed End		75%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	5.28a	4.31a	3.13a	-	-	-	-	-
7.00	-	-	-	-	-	5.25b	5.14b	4.14a	2.98a	-	-	-
6.00	-	-	-	-	-	5.27b	5.09b	4.96b	4.51	3.49a	-	-
5.00	-	-	-	6.43a	6.14b	5.68b	5.35b	5.01	4.52b	4.09	3.55a	-
4.00	-	10.00c	8.54b	7.46b	7.14b	6.36	5.61b	5.03	4.52	4.05	3.65	3.21a
3.00	-	-	10.00c	8.50	7.29	6.33	5.55	4.92	4.40	3.96	3.59	3.26
2.00	-	-	-	8.11	6.96	6.06	5.34	4.76	4.27	3.86	3.51	3.20
1.00	-	-	4.00a	7.36a	6.71	5.85	5.17	4.62	4.16	3.77	3.44	3.15
0.00	-	3.35a	5.26a	7.67	6.56	5.72	5.05	4.52	4.07	3.70	3.38	3.10
-1.00	3.69a	5.53a	7.27a	7.66	6.55	5.67	5.00	4.46	4.03	3.66	3.36	2.44a
-2.00	6.55a	7.98a	9.31	7.74	6.59b	5.71	5.02	4.49	4.06	3.69	2.84a	-
-3.00	9.19k	9.10b	8.16b	7.31b	6.54b	5.69	5.02	4.49	4.04	-	-	-
-4.00	7.35b	6.85b	6.03b	5.44b	4.99b	4.37b	3.75b	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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

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

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	1.95	1.68	1.50	-	-	-	-	-
7.00	-	-	-	-	-	1.70	1.51	1.30	1.06	-	-	-
6.00	-	-	-	-	-	1.71	1.52	1.30	1.08	0.87	-	-
5.00	-	-	-	2.34	1.99	1.73	1.48	1.25	1.05	0.85	0.62	-
4.00	-	3.40	2.74	2.32	1.93	1.60	1.35	1.14	0.97	0.76	0.57	0.39
3.00	-	-	2.21	1.90	1.62	1.38	1.18	1.01	0.84	0.65	0.49	0.33
2.00	-	-	-	1.47	1.32	1.15	1.01	0.87	0.69	0.53	0.39	0.26
1.00	-	-	1.40	1.25	1.10	0.98	0.85	0.69	0.55	0.42	0.30	0.20
0.00	-	1.68	1.34	1.13	0.98	0.86	0.71	0.57	0.45	0.33	0.23	0.14
-1.00	2.36	1.74	1.39	1.16	0.97	0.82	0.64	0.50	0.39	0.29	0.21	0.13
-2.00	2.54	2.00	1.53	1.22	1.01	0.85	0.67	0.53	0.44	0.33	0.21	-
-3.00	2.97	2.13	1.63	1.31	1.09	0.93	0.80	0.66	0.49	-	-	-
-4.00	3.17	2.39	1.86	1.52	1.32	1.09	0.89	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

Duty	Lift Point	Config	Sector	Osc Axle	Safety	
4AL	Hitch	SUPER CANT	+/- 180°		75%	

	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
10.00	-	-	-	-	-	-	-	-	-	-	-	-
9.00	-	-	-	-	-	-	-	-	-	-	-	-
8.00	-	-	-	-	3.05	2.62	2.32	-	-	-	-	-
7.00	-	-	-	-	-	2.64	2.33	2.02	1.68	-	-	-
6.00	-	-	-	-	-	2.66	2.34	2.02	1.71	1.44	-	-
5.00	-	-	-	3.68	3.10	2.67	2.30	1.96	1.68	1.43	1.14	-
4.00	-	5.62	4.41	3.66	3.03	2.52	2.15	1.83	1.58	1.34	1.10	0.87
3.00	-	-	3.76	3.15	2.66	2.27	1.95	1.68	1.46	1.23	1.01	0.81
2.00	-	-	-	2.64	2.30	1.99	1.74	1.52	1.32	1.10	0.91	0.74
1.00	-	-	2.77	2.37	2.05	1.79	1.57	1.38	1.17	0.98	0.82	0.67
0.00	-	3.35a	2.70	2.23	1.90	1.65	1.45	1.26	1.06	0.89	0.74	0.61
-1.00	3.69a	3.54	2.76	2.26	1.89	1.61	1.40	1.19	1.00	0.84	0.72	0.60
-2.00	5.19	3.86	2.93	2.33	1.93	1.64	1.42	1.22	1.06	0.89	0.72	-
-3.00	5.75	4.03	3.06	2.44	2.04	1.73	1.53	1.35	1.11	-	-	-
-4.00	5.69	4.20	3.28	2.69	2.26	1.92	1.60	-	-	-	-	-
-5.00	-	-	-	-	-	-	-	-	-	-	-	-

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