

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

4a r6!	ROAD	LEVEL ROAD @ 75% of tipping load
	SECTOR	360°
	OSC. AXLE	FLOAT (LIFT & CARRY)

Duties 4, 5 & 6 are for London Underground use ONLY

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	4.48	3.70	3.11	2.65				7.0m	5.11a	4.53	3.77	3.18	2.68				
6.0m	4.32a	4.42	3.67	3.10	2.66	2.30	2.00		6.0m	4.57a	4.49	3.75	3.19	2.76	2.37	2.02		
5.0m	5.38	4.27	3.55	3.02	2.60	2.27	2.00	1.76	5.0m	5.39	4.39	3.68	3.15	2.74	2.41	2.07	1.79	
4.0m		4.18	3.41	2.90	2.52	2.21	1.96	1.74	4.0m		4.26	3.60	3.10	2.71	2.40	2.09	1.81	
3.0m		4.03	3.30	2.77	2.42	2.14	1.90	1.71	3.0m		4.17	3.53	3.05	2.68	2.38	2.07	1.80	
2.0m	4.84	3.86	3.17	2.67	2.33	2.07	1.85	1.67	2.0m	5.01	4.12	3.50	3.03	2.64	2.32	2.03	1.77	
1.0m	4.59	3.68	3.05	2.59	2.27	2.02	1.81	1.64	1.0m	4.81	3.99	3.39	2.92	2.55	2.25	1.99	1.74	
0.0m	4.42	3.57	2.97	2.56	2.25	2.00	1.80	1.63	0.0m	4.70	3.88	3.29	2.84	2.50	2.21	1.93	1.70	
-1.0m	4.37	3.55	2.99	2.57	2.26	2.01	1.81	1.65	-1.0m	4.65	3.82	3.24	2.81	2.46	2.16	1.88	1.67	
-2.0m	4.45	3.62	3.04	2.62	2.30	2.06			-2.0m	4.66	3.83	3.25	2.80	2.41	2.12			
-3.0m	4.60	3.76	3.18						-3.0m	4.76	3.87	3.25						

MAXIMUM LOADS

4a r6!	ROAD	LEVEL ROAD @ 75% of tipping load
	SECTOR	360°
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

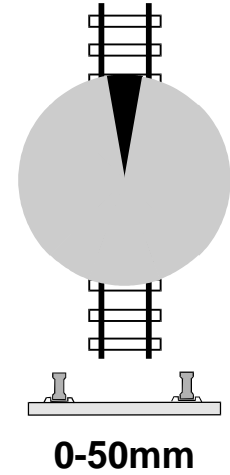
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.16	4.41				
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.14	4.43	3.87	3.35		
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.33	2.95	5.0m	5.54a	5.81a	5.71a	5.08	4.39	3.85	3.41	2.98	
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	5.86	4.99	4.34	3.82	3.41	3.00	
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.22	2.89	3.0m		6.12b	5.74	4.92	4.29	3.79	3.40b	2.99	
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.55	3.17	2.85	2.0m	7.18b	6.77b	5.69	4.88	4.26	3.78	3.36	2.96	
1.0m	7.51b	6.14b	5.24b	4.56	3.96	3.50	3.13	2.82	1.0m	8.47b	6.82	5.69	4.89	4.27	3.75	3.32	2.92	
0.0m	6.71a	6.48	5.32	4.31b	3.93	3.48	3.11	2.74b	0.0m	8.55	6.85	5.68	4.84	4.21	3.70	3.25	2.89	
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	8.52	6.78	5.63	4.80	4.17	3.66	3.20	2.86	
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	8.53	6.79	5.64	4.80	4.11	3.61			
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b						

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

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SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

5a i6!	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±10° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	4.91	4.26			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	4.90	4.29	3.79	3.33	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.30	2.96	5.0m	5.54a	5.81a	5.59	4.84	4.26	3.78	3.38	2.99
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	5.49	4.77	4.21	3.75	3.38	3.01
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.21	2.91	3.0m		6.12b	5.40	4.71	4.16b	3.73	3.38	3.00
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.50	3.16	2.87	2.0m	7.18b	6.26	5.36	4.68	4.14	3.72	3.34	2.98
1.0m	7.33	6.01	5.06	4.37	3.86	3.46	3.12	2.85	1.0m	7.53	6.27	5.36	4.69	4.13	3.68	3.30	2.94
0.0m	6.71a	5.90	4.99	4.31b	3.84	3.44	3.11	2.74b	0.0m	7.44	6.20	5.30	4.61	4.08	3.64	3.24	2.91
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	7.39	6.14	5.25	4.58	4.04	3.60	3.19	2.88
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	7.40	6.15	5.26	4.58	4.00	3.55		
-3.0m	6.72b	5.64b	4.86b						-3.0m	7.50	6.19	5.26					

MAXIMUM LOADS

5a i6!	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±10° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

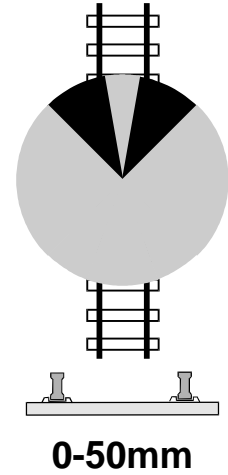
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.94b			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.88b	4.52b	4.21b	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.31a	5.0m	5.54a	5.81a	5.71a	5.47b	4.97b	4.54b	4.21b	3.88b
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.68b	5.11b	4.63b	4.23b	3.88b
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.34a	3.0m		6.12b	6.04b	5.76b	5.17b	4.65b	4.22b	3.85b
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.65b	3.54a	2.0m	7.18b	6.77b	6.31b	5.73b	5.11b	4.60b	4.18b	3.82b
1.0m	7.51b	6.14b	5.24b	4.71b	4.33b	4.09b	3.73a	3.33b	1.0m	8.51b	7.46b	6.48b	5.70b	5.08b	4.58b	4.16b	3.82b
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.98b	7.55b	6.51b	5.72b	5.10b	4.60b	4.22b	3.77b
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.60b	5.80b	5.20b	4.66b	4.03b	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.68b	5.81b	4.89b	3.98b		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

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5b r	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	4.89	3.94	3.25	2.74	2.32				7.0m	4.91	3.99	3.32	2.81	2.35			
6.0m	4.32a	3.88	3.22	2.72	2.33	2.02	1.75		6.0m	4.57a	3.95	3.30	2.82	2.43	2.08	1.77	
5.0m	4.69	3.73	3.11	2.64	2.28	1.99	1.74	1.53	5.0m	4.70	3.85	3.24	2.78	2.42	2.12	1.82	1.56
4.0m		3.64	2.98	2.53	2.20	1.93	1.70	1.51	4.0m		3.73	3.16	2.72	2.38	2.11	1.83	1.58
3.0m		3.51	2.87	2.40	2.10	1.85	1.65	1.48	3.0m		3.63	3.09	2.68	2.35	2.09	1.81	1.57
2.0m	4.18	3.34	2.74	2.31	2.01	1.79	1.60	1.44	2.0m	4.34	3.59	3.06	2.66	2.31	2.03	1.78	1.54
1.0m	3.94	3.17	2.62	2.23	1.96	1.74	1.56	1.41	1.0m	4.15	3.46	2.95	2.55	2.23	1.97	1.74	1.51
0.0m	3.77	3.05	2.55	2.20	1.93	1.72	1.55	1.40	0.0m	4.04	3.36	2.86	2.47	2.18	1.92	1.68	1.47
-1.0m	3.73	3.04	2.56	2.21	1.94	1.73	1.56	1.43	-1.0m	4.00	3.30	2.81	2.44	2.14	1.88	1.63	1.45
-2.0m	3.80	3.11	2.62	2.26	1.99	1.78			-2.0m	4.01	3.31	2.82	2.44	2.09	1.84		
-3.0m	3.94	3.24	2.75						-3.0m	4.10	3.34	2.81					

MAXIMUM LOADS

5b r	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

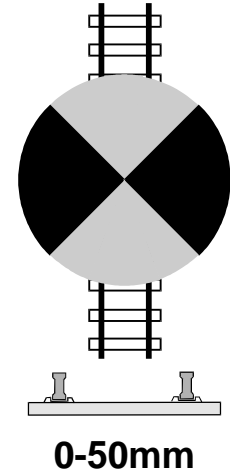
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.06	4.29	3.64			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	2.76		6.0m	4.57a	5.11a	5.04	4.29	3.72b	3.22	2.78	
5.0m	5.50a	5.10a	4.69b	4.07b	3.57	3.12	2.76	2.45	5.0m	5.54a	5.81a	4.96	4.25	3.69b	3.25	2.83	2.48
4.0m		5.34b	4.59b	4.00	3.48	3.06	2.71	2.43	4.0m		5.78	4.87b	4.19	3.65	3.24	2.85	2.49
3.0m		5.23b	4.50b	3.87	3.37	2.98	2.66	2.39	3.0m		5.67	4.78	4.13b	3.62	3.22	2.83	2.49
2.0m	6.14b	5.17b	4.45	3.76	3.28	2.91	2.61	2.35	2.0m	6.86	5.62	4.75	4.10	3.60	3.17	2.79	2.46
1.0m	6.54	5.23	4.33	3.68	3.22	2.86	2.57	2.32	1.0m	6.78	5.55	4.68	4.02	3.51	3.10	2.75	2.42
0.0m	6.36	5.11	4.25	3.64	3.19	2.84	2.55	2.31	0.0m	6.66	5.44	4.58	3.94	3.46	3.05	2.69	2.39
-1.0m	6.31	5.09	4.26	3.66	3.20	2.85	2.56	2.34	-1.0m	6.61	5.38	4.53	3.90	3.41	3.01	2.64	2.36
-2.0m	6.39	5.16	4.32	3.71	3.25	2.90			-2.0m	6.62	5.38	4.54	3.90	3.36	2.96		
-3.0m	6.55	5.31	4.46						-3.0m	6.73	5.43	4.53					

MAXIMUM LOADS

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5c	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° to ±135°
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	4.58	3.68	3.03	2.54	2.15				7.0m	4.60	3.73	3.10	2.61	2.18			
6.0m	4.32a	3.62	3.00	2.52	2.16	1.86	1.60		6.0m	4.53	3.69	3.08	2.62	2.26	1.92	1.62	
5.0m	4.38	3.47	2.89	2.45	2.11	1.83	1.60	1.40	5.0m	4.39	3.59	3.01	2.58	2.24	1.96	1.67	1.43
4.0m		3.38	2.75	2.33	2.02	1.77	1.56	1.38	4.0m		3.47	2.93	2.53	2.21	1.95	1.69	1.45
3.0m		3.25	2.64	2.21	1.92	1.70	1.51	1.35	3.0m		3.37	2.86	2.48	2.18	1.93	1.67	1.44
2.0m	3.87	3.07	2.52	2.11	1.84	1.63	1.46	1.31	2.0m	4.02	3.33	2.83	2.46	2.14	1.87	1.63	1.41
1.0m	3.62	2.90	2.40	2.03	1.78	1.58	1.42	1.28	1.0m	3.84	3.20	2.73	2.35	2.06	1.81	1.59	1.38
0.0m	3.46	2.79	2.33	2.00	1.76	1.56	1.40	1.27	0.0m	3.73	3.10	2.63	2.28	2.00	1.77	1.53	1.34
-1.0m	3.41	2.78	2.34	2.01	1.76	1.57	1.41	1.29	-1.0m	3.68	3.04	2.59	2.24	1.96	1.72	1.49	1.31
-2.0m	3.49	2.85	2.39	2.06	1.81	1.62			-2.0m	3.70	3.05	2.60	2.24	1.92	1.68		
-3.0m	3.63	2.98	2.52						-3.0m	3.79	3.08	2.59					

MAXIMUM LOADS

5c	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° to ±135°
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

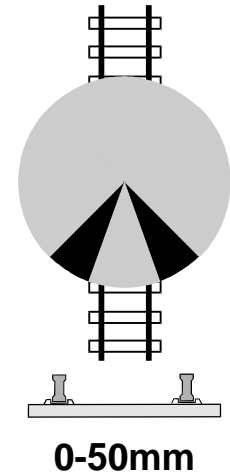
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.36	3.66	3.11				7.0m	5.11a	5.37	4.44	3.74	3.15			
6.0m	4.32a	4.72a	4.33	3.65	3.13	2.71	2.36		6.0m	4.57a	5.11a	4.42	3.75	3.23	2.78	2.38	
5.0m	5.50a	5.09	4.21	3.56	3.07	2.68	2.36	2.08	5.0m	5.54a	5.22	4.35	3.71	3.21	2.82	2.43	2.11
4.0m		4.99	4.06	3.44	2.98	2.61	2.31	2.06	4.0m		5.08	4.26	3.65	3.18	2.81	2.45	2.13
3.0m		4.84	3.94	3.31	2.87	2.54	2.26	2.02	3.0m		4.98	4.19	3.60	3.15	2.79	2.43	2.12
2.0m	5.88	4.65	3.81	3.20	2.78	2.47	2.21	1.99	2.0m	6.06	4.93	4.15	3.58	3.11	2.72	2.39	2.09
1.0m	5.61	4.47	3.68	3.12	2.72	2.42	2.17	1.96	1.0m	5.85	4.79	4.04	3.46	3.02	2.66	2.35	2.06
0.0m	5.43	4.35	3.60	3.08	2.70	2.40	2.15	1.95	0.0m	5.73	4.68	3.94	3.38	2.96	2.61	2.29	2.02
-1.0m	5.38	4.33	3.61	3.10	2.71	2.40	2.16	1.97	-1.0m	5.68	4.62	3.88	3.34	2.92	2.57	2.24	1.99
-2.0m	5.46	4.40	3.68	3.15	2.76	2.46			-2.0m	5.69	4.62	3.89	3.34	2.87	2.52		
-3.0m	5.62	4.54	3.81						-3.0m	5.80	4.66	3.89					

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

5d	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° OVER FIXED AXLE (REAR)
	OSC. AXLE	FLOAT (LIFT & CARRY)

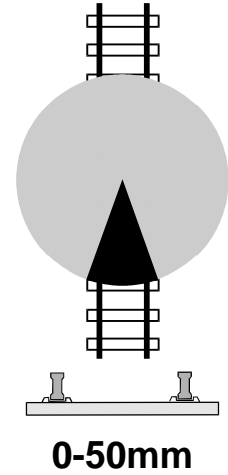
MINIMUM LOADS									MAXIMUM LOADS								
	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m									
7.0m	5.03a	5.30a	4.58	3.90	3.36				7.0m	5.11a	5.46a	4.65	3.97	3.39			
6.0m	4.32a	4.72a	4.55	3.89	3.37	2.88a	2.60		6.0m	4.57a	5.11a	4.63	3.98	3.47	3.01	2.62	
5.0m	5.50a	5.10a	4.44	3.81	3.32	2.92	2.59	2.31	5.0m	5.54a	5.40	4.57	3.94	3.45	3.06	2.67	2.34
4.0m		5.19	4.31	3.69	3.23	2.86	2.55	2.29	4.0m		5.28	4.49	3.89	3.42	3.04	2.68	2.36
3.0m		5.05	4.20	3.57	3.13	2.79	2.50	2.26	3.0m		5.18	4.42	3.84	3.39	3.03	2.66	2.35
2.0m	6.03	4.88	4.07	3.47	3.05	2.72	2.45	2.22	2.0m	6.17	5.14	4.39	3.82	3.35	2.97	2.63	2.33
1.0m	5.79	4.71	3.95	3.39	2.99	2.68	2.41	2.19	1.0m	6.00	5.01	4.28	3.71	3.27	2.90	2.59	2.29
0.0m	5.62	4.60	3.88	3.36	2.97	2.66	2.40	2.18	0.0m	5.89	4.90	4.19	3.64	3.22	2.86	2.53	2.26
-1.0m	5.58	4.59	3.89	3.37	2.98	2.66	2.41	2.21	-1.0m	5.85	4.85	4.14	3.60	3.18	2.82	2.48	2.23
-2.0m	5.65	4.65	3.95	3.42	3.02	2.71			-2.0m	5.86	4.86	4.15	3.60	3.13	2.77		
-3.0m	5.79	4.78	4.08						-3.0m	5.95	4.89	4.14					

5d	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±45° OVER FIXED AXLE (REAR)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

MINIMUM LOADS									MAXIMUM LOADS								
	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m									
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.64			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.65	4.09	3.59	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.19	5.0m	5.54a	5.81a	5.71a	5.28	4.61	4.07	3.64	3.22
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.03	5.20	4.55	4.04	3.62	3.24
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.13	3.0m		6.12b	5.91b	5.11	4.50	4.00	3.61	3.23
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.42	3.10	2.0m	7.18b	6.77b	5.86	5.07	4.47	3.99	3.61	3.20
1.0m	7.51b	6.14b	5.24b	4.71b	4.22	3.76	3.38	3.07	1.0m	8.46	6.93b	5.86	5.08	4.48	4.00	3.56	3.16
0.0m	6.71a	6.65	5.56	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.53	6.98	5.89	5.08	4.46	3.95	3.50	3.13
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	8.49	6.92	5.84	5.04	4.42	3.88	3.45	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	8.51	6.93	5.85	5.04	4.37	3.86		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

5e i6!	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±20° OVER FIXED AXLE (REAR)
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.94b			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.88b	4.52b	4.21b	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.31a	5.0m	5.54a	5.81a	5.71a	5.47b	4.97b	4.54b	4.21b	3.88b
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.68b	5.11b	4.63b	4.23b	3.88b
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.34a	3.0m		6.12b	6.04b	5.76b	5.17b	4.65b	4.22b	3.85b
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.65b	3.54a	2.0m	7.18b	6.77b	6.31b	5.73b	5.11b	4.60b	4.18b	3.82b
1.0m	7.51b	6.14b	5.24b	4.71b	4.33b	4.09b	3.73a	3.33b	1.0m	8.51b	7.46b	6.48b	5.70b	5.08b	4.58b	4.16b	3.82b
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.98b	7.55b	6.51b	5.72b	5.10b	4.60b	4.22b	3.77b
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.60b	5.80b	5.20b	4.66b	4.03b	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.68b	5.81b	4.89b	3.98b		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

MAXIMUM LOADS

5e i6!	RAIL	0 to 50mm CANT @ 75% of tipping load
	SECTOR	±20° OVER FIXED AXLE (REAR)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

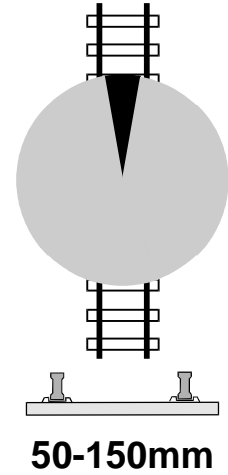
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.94b			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.88b	4.52b	4.21b	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.31a	5.0m	5.54a	5.81a	5.71a	5.47b	4.97b	4.54b	4.21b	3.88b
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.68b	5.11b	4.63b	4.23b	3.88b
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.34a	3.0m		6.12b	6.04b	5.76b	5.17b	4.65b	4.22b	3.85b
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.65b	3.54a	2.0m	7.18b	6.77b	6.31b	5.73b	5.11b	4.60b	4.18b	3.82b
1.0m	7.51b	6.14b	5.24b	4.71b	4.33b	4.09b	3.73a	3.33b	1.0m	8.51b	7.46b	6.48b	5.70b	5.08b	4.58b	4.16b	3.82b
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.98b	7.55b	6.51b	5.72b	5.10b	4.60b	4.22b	3.77b
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.60b	5.80b	5.20b	4.66b	4.03b	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.68b	5.81b	4.89b	3.98b		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

6a r6!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±10° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	FLOAT (LIFT & CARRY)

50-150mm

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	4.73	3.93	3.33	2.85				7.0m	5.11a	4.77	4.00	3.40	2.88				
6.0m	4.32a	4.67	3.90	3.31	2.86	2.49	2.18		6.0m	4.57a	4.73	3.98	3.41	2.96	2.56	2.20		
5.0m	5.50a	4.52	3.79	3.24	2.81	2.46	2.18	1.93	5.0m	5.54a	4.64	3.91	3.37	2.94	2.60	2.25	1.96	
4.0m		4.43	3.65	3.12	2.73	2.40	2.14	1.91	4.0m		4.52	3.83	3.32	2.91	2.58	2.26	1.98	
3.0m		4.29	3.54	3.00	2.63	2.33	2.08	1.87	3.0m		4.42	3.77	3.27	2.88	2.57	2.25	1.97	
2.0m	5.12	4.12	3.42	2.90	2.54	2.26	2.03	1.84	2.0m	5.28	4.38	3.73	3.25	2.84	2.51	2.21	1.94	
1.0m	4.88	3.95	3.30	2.82	2.48	2.22	2.00	1.81	1.0m	5.09	4.25	3.63	3.14	2.76	2.44	2.17	1.90	
0.0m	4.71	3.84	3.23	2.79	2.46	2.20	1.98	1.80	0.0m	4.98	4.14	3.54	3.07	2.71	2.40	2.11	1.87	
-1.0m	4.67	3.83	3.24	2.80	2.47	2.20	1.99	1.82	-1.0m	4.94	4.09	3.49	3.03	2.67	2.36	2.06	1.84	
-2.0m	4.74	3.89	3.29	2.85	2.51	2.25			-2.0m	4.95	4.10	3.50	3.03	2.62	2.31			
-3.0m	4.88	4.02	3.42						-3.0m	5.04	4.13	3.49						

MAXIMUM LOADS

6a r6!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±10° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

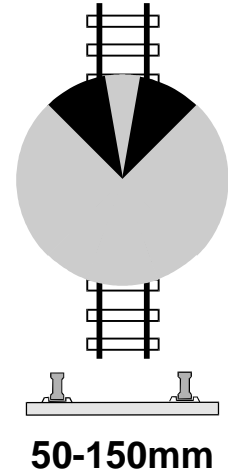
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.70				
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.71	4.01	3.39		
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.36	2.92	5.0m	5.54a	5.81a	5.71a	5.47b	4.66	3.99	3.46	2.96	
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.44	4.58	3.94	3.45	2.98	
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.24	2.85	3.0m		6.12b	6.04b	5.33	4.51	3.90	3.44	2.97	
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.17	2.81	2.0m	7.18b	6.77b	6.31b	5.26	4.47b	3.89b	3.41	2.94	
1.0m	7.51b	6.14b	5.24b	4.71b	4.16	3.57	3.13	2.77	1.0m	8.51b	7.46b	6.34	5.26	4.48b	3.88	3.35	2.89	
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.55	3.11	2.74b	0.0m	8.98b	7.55b	6.39	5.32	4.47	3.82	3.28	2.85	
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.48	5.27	4.41	3.73	3.21	2.81	
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.50	5.27	4.35	3.71			
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b						

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

6b r	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	4.10	3.28	2.69	2.24	1.88				7.0m	4.12	3.32	2.75	2.31	1.91				
6.0m	4.01	3.22	2.65	2.22	1.89	1.62	1.38		6.0m	4.05	3.28	2.73	2.32	1.99	1.68	1.40		
5.0m	3.90	3.07	2.54	2.15	1.84	1.59	1.38	1.20	5.0m	3.91	3.19	2.67	2.28	1.97	1.72	1.45	1.22	
4.0m		2.98	2.41	2.03	1.75	1.53	1.34	1.18	4.0m		3.07	2.59	2.22	1.94	1.71	1.47	1.25	
3.0m		2.84	2.30	1.91	1.65	1.45	1.29	1.14	3.0m		2.97	2.52	2.18	1.91	1.69	1.45	1.24	
2.0m	3.39	2.67	2.17	1.81	1.57	1.39	1.24	1.11	2.0m	3.54	2.93	2.49	2.16	1.87	1.63	1.41	1.21	
1.0m	3.14	2.50	2.05	1.73	1.51	1.34	1.20	1.08	1.0m	3.36	2.80	2.38	2.05	1.79	1.57	1.37	1.17	
0.0m	2.98	2.39	1.98	1.70	1.49	1.32	1.18	1.07	0.0m	3.25	2.69	2.29	1.98	1.73	1.52	1.31	1.14	
-1.0m	2.93	2.38	1.99	1.71	1.50	1.33	1.19	1.09	-1.0m	3.20	2.64	2.24	1.94	1.69	1.48	1.27	1.11	
-2.0m	3.01	2.44	2.05	1.76	1.54	1.38			-2.0m	3.22	2.65	2.25	1.94	1.65	1.44			
-3.0m	3.15	2.57	2.18						-3.0m	3.31	2.68	2.25						

MAXIMUM LOADS

6b r	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° OVER OSCILLATING AXLE (FRONT)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

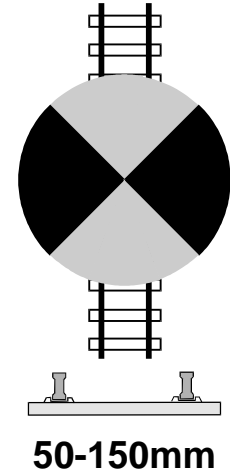
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	4.76	3.90	3.26	2.75				7.0m	5.11a	4.81	3.97	3.33	2.79				
6.0m	4.32a	4.70	3.86	3.24	2.77	2.39	2.07		6.0m	4.57a	4.77	3.95	3.34	2.87	2.45	2.09		
5.0m	5.50a	4.53	3.74	3.16	2.71	2.36	2.06	1.82	5.0m	5.54a	4.66	3.88	3.30	2.85	2.50	2.14	1.84	
4.0m		4.44	3.59	3.03	2.62	2.29	2.02	1.80	4.0m		4.53	3.79	3.24	2.82	2.48	2.16	1.87	
3.0m		4.29	3.47	2.90	2.51	2.21	1.97	1.76	3.0m		4.43	3.72	3.19	2.79	2.47	2.14	1.85	
2.0m	5.21	4.10	3.34	2.79	2.42	2.15	1.91	1.72	2.0m	5.39	4.38	3.68	3.17	2.75	2.40	2.10	1.83	
1.0m	4.94	3.91	3.21	2.71	2.36	2.10	1.88	1.69	1.0m	5.18	4.23	3.57	3.05	2.66	2.33	2.06	1.79	
0.0m	4.76	3.79	3.13	2.68	2.34	2.07	1.86	1.68	0.0m	5.06	4.12	3.47	2.98	2.60	2.29	2.00	1.76	
-1.0m	4.70	3.78	3.15	2.69	2.35	2.08	1.87	1.70	-1.0m	5.00	4.06	3.41	2.94	2.56	2.24	1.95	1.72	
-2.0m	4.79	3.85	3.21	2.74	2.40	2.13			-2.0m	5.02	4.07	3.42	2.93	2.51	2.20			
-3.0m	4.95	3.99	3.34						-3.0m	5.12	4.11	3.42						

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

6c i b!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° to ±135°
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	3.54	2.81	2.28	1.89	1.57				7.0m	3.56	2.86	2.35	1.96	1.60			
6.0m	3.45	2.75	2.25	1.87	1.58	1.34	1.13		6.0m	3.50	2.82	2.33	1.97	1.68	1.40	1.15	
5.0m	3.34	2.60	2.14	1.79	1.53	1.31	1.12	0.96	5.0m	3.35	2.72	2.27	1.93	1.66	1.44	1.20	0.99
4.0m		2.52	2.01	1.68	1.44	1.25	1.08	0.94	4.0m		2.60	2.19	1.87	1.63	1.43	1.21	1.01
3.0m		2.38	1.90	1.55	1.34	1.17	1.03	0.91	3.0m		2.51	2.12	1.83	1.60	1.41	1.19	1.00
2.0m	2.83	2.21	1.77	1.46	1.26	1.11	0.98	0.87	2.0m	2.99	2.46	2.09	1.81	1.56	1.35	1.16	0.98
1.0m	2.59	2.04	1.65	1.38	1.20	1.06	0.94	0.84	1.0m	2.80	2.33	1.98	1.70	1.47	1.29	1.12	0.94
0.0m	2.42	1.93	1.58	1.35	1.18	1.04	0.93	0.84	0.0m	2.69	2.23	1.89	1.63	1.42	1.24	1.06	0.91
-1.0m	2.38	1.91	1.59	1.36	1.18	1.05	0.94	0.86	-1.0m	2.65	2.17	1.84	1.59	1.38	1.20	1.01	0.88
-2.0m	2.45	1.98	1.65	1.41	1.23	1.10			-2.0m	2.66	2.18	1.85	1.59	1.34	1.16		
-3.0m	2.59	2.11	1.78						-3.0m	2.75	2.22	1.85					

MAXIMUM LOADS

6c i b!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° to ±135°
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

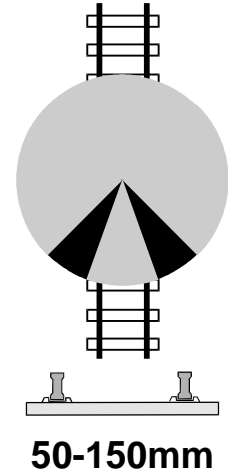
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	4.21	3.43	2.85	2.40				7.0m	5.11a	4.26	3.50	2.93	2.43			
6.0m	4.32a	4.15	3.39	2.83	2.41	2.07	1.78		6.0m	4.57a	4.22	3.48	2.94	2.51	2.13	1.80	
5.0m	5.11	3.98	3.27	2.75	2.35	2.03	1.77	1.55	5.0m	5.12	4.11	3.41	2.89	2.50	2.17	1.85	1.58
4.0m		3.89	3.13	2.63	2.26	1.97	1.73	1.53	4.0m		3.98	3.32	2.83	2.46	2.16	1.86	1.60
3.0m		3.73	3.01	2.49	2.16	1.89	1.68	1.49	3.0m		3.87	3.25	2.78	2.43	2.14	1.85	1.59
2.0m	4.54	3.55	2.87	2.39	2.07	1.82	1.62	1.45	2.0m	4.71	3.83	3.21	2.76	2.39	2.08	1.81	1.56
1.0m	4.26	3.36	2.74	2.30	2.01	1.77	1.58	1.43	1.0m	4.50	3.68	3.10	2.65	2.30	2.01	1.76	1.52
0.0m	4.08	3.24	2.66	2.27	1.98	1.75	1.57	1.42	0.0m	4.38	3.57	3.00	2.57	2.24	1.97	1.70	1.49
-1.0m	4.03	3.22	2.68	2.28	1.99	1.76	1.58	1.44	-1.0m	4.33	3.51	2.95	2.53	2.20	1.92	1.65	1.46
-2.0m	4.11	3.29	2.74	2.34	2.04	1.81			-2.0m	4.34	3.52	2.96	2.53	2.15	1.88		
-3.0m	4.27	3.44	2.88						-3.0m	4.45	3.56	2.95					

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

6d	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° OVER FIXED AXLE (REAR)
	OSC. AXLE	FLOAT (LIFT & CARRY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	4.42	3.67	3.10	2.65				7.0m	5.11a	4.47	3.74	3.17	2.68				
6.0m	4.32a	4.37	3.64	3.09	2.66	2.31	2.01		6.0m	4.57a	4.43	3.72	3.18	2.76	2.37	2.03		
5.0m	5.27	4.21	3.53	3.01	2.61	2.28	2.01	1.78	5.0m	5.28	4.33	3.65	3.14	2.74	2.41	2.08	1.80	
4.0m		4.13	3.39	2.89	2.52	2.22	1.97	1.76	4.0m		4.21	3.57	3.09	2.71	2.40	2.10	1.82	
3.0m		3.99	3.28	2.77	2.42	2.15	1.92	1.72	3.0m		4.12	3.50	3.04	2.68	2.38	2.08	1.81	
2.0m	4.76	3.82	3.15	2.67	2.34	2.08	1.87	1.68	2.0m	4.91	4.08	3.47	3.02	2.64	2.32	2.04	1.79	
1.0m	4.51	3.65	3.04	2.59	2.28	2.03	1.83	1.66	1.0m	4.73	3.94	3.37	2.91	2.55	2.26	2.00	1.75	
0.0m	4.35	3.54	2.97	2.56	2.26	2.01	1.81	1.65	0.0m	4.62	3.84	3.27	2.84	2.50	2.22	1.94	1.72	
-1.0m	4.30	3.52	2.98	2.57	2.26	2.02	1.82	1.67	-1.0m	4.57	3.79	3.23	2.80	2.46	2.17	1.90	1.69	
-2.0m	4.38	3.59	3.03	2.62	2.31	2.07			-2.0m	4.59	3.79	3.24	2.80	2.42	2.13			
-3.0m	4.52	3.72	3.16						-3.0m	4.68	3.83	3.23						

MAXIMUM LOADS

6d	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±45° OVER FIXED AXLE (REAR)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

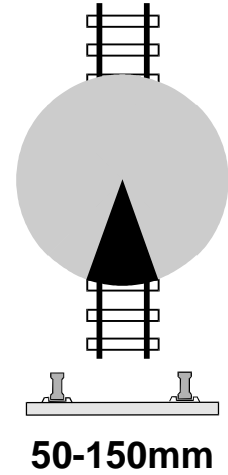
MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m	
7.0m	5.03a	5.30a	4.79b	4.11b	3.57				7.0m	5.11a	5.46a	5.01	4.25b	3.60				
6.0m	4.32a	4.72a	4.77b	4.12b	3.58	2.88a	2.73		6.0m	4.57a	5.11a	4.99b	4.25b	3.68	3.18	2.75		
5.0m	5.50a	5.10a	4.69b	4.07b	3.52	3.08	2.72	2.42	5.0m	5.54a	5.81a	4.91	4.20	3.65	3.22	2.80	2.44	
4.0m		5.34b	4.59b	3.95	3.43	3.02	2.68	2.40	4.0m		5.73	4.81	4.14	3.62	3.20	2.81	2.47	
3.0m		5.23b	4.50b	3.82	3.33	2.94	2.62	2.36	3.0m		5.62b	4.74	4.08	3.58	3.19	2.80	2.46	
2.0m	6.14b	5.17b	4.40	3.71	3.24	2.87	2.57	2.32	2.0m	6.79	5.56b	4.70	4.06	3.56	3.13	2.76	2.43	
1.0m	6.46	5.16	4.27	3.63	3.18	2.82	2.53	2.29	1.0m	6.70	5.48	4.63	3.97	3.47	3.06	2.71	2.39	
0.0m	6.28	5.04	4.19	3.60	3.15	2.80	2.52	2.28	0.0m	6.58	5.37	4.53	3.89	3.41	3.01	2.65	2.36	
-1.0m	6.23	5.03	4.20	3.61	3.16	2.81	2.53	2.30	-1.0m	6.53	5.31	4.47	3.85	3.37	2.97	2.60	2.33	
-2.0m	6.31	5.10	4.27	3.66	3.21	2.86			-2.0m	6.54	5.32	4.48	3.85	3.32	2.92			
-3.0m	6.47	5.24	4.40						-3.0m	6.65	5.36	4.48						

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid fore use on up to a 1:30 gradient, and with a maximum track twist of 25mm

MACHINE TYPE	Philmor Rail Komatsu PW150ES-6 road-rail conversion
SERIAL No	K35051 (RRC 079)
EQUIPMENT	Hydraulic adjustable boom + 2m10 dipper
DATE	09 February 2004



This machine is equipped with a Prolec PC-RCI. This system is designed to comply with RAILWAY SAFETY STANDARD GM/RT1300 Issue 4

6e i b!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±20° OVER FIXED AXLE (REAR)
	OSC. AXLE	FLOAT (LIFT & CARRY)

50-150mm

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.94b			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.88b	4.52b	4.21b	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.31a	5.0m	5.54a	5.81a	5.71a	5.47b	4.97b	4.54b	4.21b	3.88b
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.68b	5.11b	4.63b	4.23b	3.88b
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.34a	3.0m		6.12b	6.04b	5.76b	5.17b	4.65b	4.22b	3.85b
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.65b	3.54a	2.0m	7.18b	6.77b	6.31b	5.73b	5.11b	4.60b	4.18b	3.82b
1.0m	7.51b	6.14b	5.24b	4.71b	4.33b	4.09b	3.73a	3.33b	1.0m	8.51b	7.46b	6.48b	5.70b	5.08b	4.58b	4.16b	3.82b
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.98b	7.55b	6.51b	5.72b	5.10b	4.60b	4.22b	3.77b
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.60b	5.80b	5.20b	4.66b	4.03b	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.68b	5.81b	4.89b	3.98b		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

MAXIMUM LOADS

6e i b!	RAIL	50 to 150mm CANT @ 75% of tipping load
	SECTOR	±20° OVER FIXED AXLE (REAR)
	OSC. AXLE	LOCKED (STATIC LIFT ONLY)

MINIMUM LOADS

	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m		3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
7.0m	5.03a	5.30a	4.79b	4.11b	3.57a				7.0m	5.11a	5.46a	5.57b	5.34b	4.94b			
6.0m	4.32a	4.72a	4.77b	4.12b	3.60b	2.88a	3.08a		6.0m	4.57a	5.11a	5.30a	5.32b	4.88b	4.52b	4.21b	
5.0m	5.50a	5.10a	4.69b	4.07b	3.58b	3.17b	3.44a	3.31a	5.0m	5.54a	5.81a	5.71a	5.47b	4.97b	4.54b	4.21b	3.88b
4.0m		5.34b	4.59b	4.00b	3.53b	3.16b	3.04a	2.47a	4.0m		6.04b	6.13b	5.68b	5.11b	4.63b	4.23b	3.88b
3.0m		5.23b	4.50b	3.94b	3.50b	3.19b	3.40b	3.34a	3.0m		6.12b	6.04b	5.76b	5.17b	4.65b	4.22b	3.85b
2.0m	6.14b	5.17b	4.46b	3.92b	3.70b	3.61b	3.65b	3.54a	2.0m	7.18b	6.77b	6.31b	5.73b	5.11b	4.60b	4.18b	3.82b
1.0m	7.51b	6.14b	5.24b	4.71b	4.33b	4.09b	3.73a	3.33b	1.0m	8.51b	7.46b	6.48b	5.70b	5.08b	4.58b	4.16b	3.82b
0.0m	6.71a	7.03b	5.60b	4.31b	3.99b	3.59b	3.20b	2.74b	0.0m	8.98b	7.55b	6.51b	5.72b	5.10b	4.60b	4.22b	3.77b
-1.0m	6.46b	5.40b	4.63b	4.05b	3.60b	3.24b	2.94b	2.70b	-1.0m	9.08b	7.64b	6.60b	5.80b	5.20b	4.66b	4.03b	3.09b
-2.0m	6.55b	5.48b	4.70b	4.11b	3.66b	3.30b			-2.0m	9.13b	7.72b	6.68b	5.81b	4.89b	3.98b		
-3.0m	6.72b	5.64b	4.86b						-3.0m	8.34b	6.74b	5.45b					

MAXIMUM LOADS

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. 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 above show both the minimum & maximum loads achievable. Loads marked 'b' boom, 'r' articulation, and 'a' arm are limited by hydraulic capacity (87% of 340 bar). All rail duties listed are valid for use on up to a 1:30 gradient, and with a maximum track twist of 25mm