

ROADRAILER

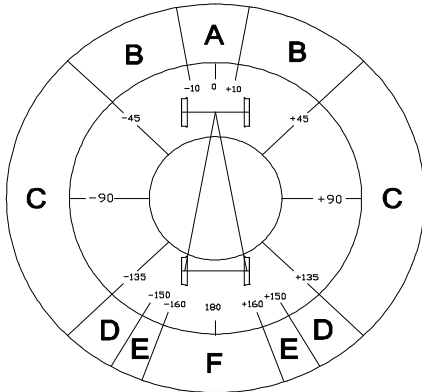
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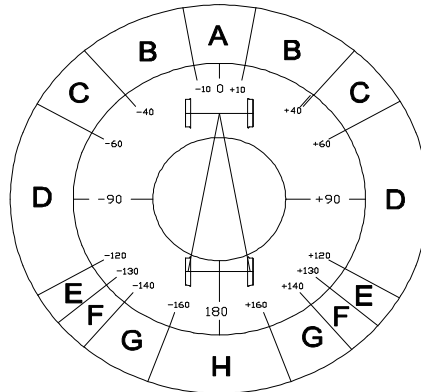
Oscillating Axle



Fixed Axle

Road Duties

Oscillating Axle

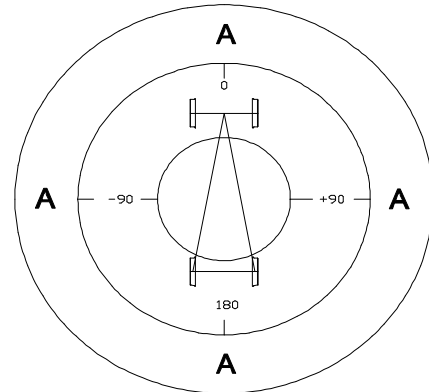


Fixed Axle

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

Tandem Charts

Machine Type:	Komatsu PW160
Serial Number:	H55920
Rail Axle Number:	2360
Network Rail Number:	99709 910045-2
Equipment:	Boom 5.15m Arm 2.1m
Date:	25th June 2015
Issue:	1
Software Versions:	
Safety Controller	V1.24.9.5
I/O Controller 1	V1.24.9.5
I/O Controller 2	V1.24.9.5
MMI	V1.24.9.4

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.



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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1a	i6!												
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
+/-10° Over Floating Axle													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.0	6.5	7.0	7.5	8.0
8.00					2.28	2.24	2.27						
7.00					2.15	2.14	2.3	2.10	1.78				
6.00					2.26	2.31	2.25	2.11	1.80	1.57			
5.00			3.69	3.26	2.94	2.66	2.38	2.06	1.79	1.56	1.37		
4.00	3.78	3.23	2.87	3.63	3.06	2.61	2.26	1.97	1.73	1.52	1.34	1.18	
3.00			2.82	2.96	2.72	2.39	2.1	1.85	1.64	1.45	1.29	1.15	
2.00				2.33	2.32	2.17	1.94	1.73	1.54	1.38	1.24	1.11	
1.00				1.94	2.00	1.98	1.82	1.63	1.46	1.31	1.18	1.07	
0.00				1.80	1.81	1.82	1.76	1.56	1.40	1.26	1.14	1.04	
-1.00				1.76	1.71	1.77	1.73	1.54	1.37	1.24	1.12	1.02	
-2.00			1.99	1.79	1.80	1.99	1.74	1.53	1.37	1.24	1.13		
-3.00		2.38	2.07	1.97	2.38	2.03	1.77	1.57	1.41	1.21			
-4.0			2.66	2.52	2.28	2.02	1.78	1.56					

1a	i6!												
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
+/-10° Over Floating Axle													
OSC. AXLE													
LOCKED (Static lift only)													
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.0	6.5	7.0	7.5	8.0
8.00					2.58	2.53	2.48						
7.00					2.43	2.42	2.60	2.37	2.01				
6.00					2.56	2.62	2.55	2.38	2.02	1.76			
5.00			4.34	3.79	3.38	3.04	2.70	2.32	2.02	1.75	1.54		
4.00	4.45	3.74	3.30	4.26	3.54	2.99	2.57	2.23	1.95	1.71	1.51	1.33	
3.00			3.27	3.45	3.16	2.75	2.40	2.10	1.85	1.64	1.46	1.30	
2.00				2.70	2.69	2.52	2.23	1.97	1.76	1.57	1.40	1.25	
1.00				2.25	2.32	2.30	2.10	1.87	1.67	1.50	1.35	1.21	
0.00				2.09	2.10	2.12	2.04	1.80	1.61	1.45	1.30	1.18	
-1.00				2.05	1.98	2.06	2.01	1.77	1.58	1.42	1.28	1.16	
-2.00			2.33	2.09	2.09	2.33	2.02	1.77	1.58	1.42	1.29		
-3.00		2.81	2.42	2.31	2.81	2.38	2.06	1.81	1.62	1.39			
-4.0			3.17	2.99	2.68	2.36	2.06	1.79					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET EQUIPMENT	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1b			ROAD										
			LEVEL ROAD @ 50% of tipping load										
			SECTOR 10° - 45° Over Floating Axle										
OSC. AXLE										FLOAT (Lift & Carry)			
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.3	1.3	1.3						
7.0					1.27	1.26	1.36	1.22	0.99				
6.0					1.33	1.36	1.33	1.23	1.01	0.84			
5.0			2.24	1.96	1.76	1.58	1.41	1.18	0.99	0.83	0.70		
4.0	2.29	1.94	1.72	2.19	1.82	1.52	1.29	1.10	0.93	0.79	0.67	0.56	
3.0			1.60	1.69	1.51	1.31	1.13	0.98	0.84	0.73	0.62	0.52	
2.0				1.21	1.20	1.10	0.98	0.86	0.75	0.65	0.56	0.48	
1.0				0.92	0.97	0.94	0.85	0.76	0.67	0.59	0.51	0.44	
0.0				0.81	0.83	0.83	0.78	0.69	0.61	0.54	0.47	0.41	
-1.0				0.77	0.75	0.78	0.76	0.66	0.58	0.51	0.45	0.39	
-2.0			0.90	0.79	0.79	0.90	0.76	0.66	0.57	0.51	0.45		
-3.0		1.12	0.95	0.89	1.13	0.94	0.80	0.69	0.62	0.50			
-4.0			1.29	1.22	1.09	0.95	0.82	0.70					

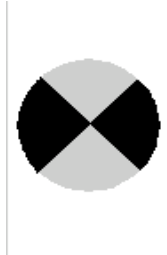
1b			ROAD										
			LEVEL ROAD @ 50% of tipping load										
			SECTOR 10° - 45° Over Floating Axle										
OSC. AXLE										LOCKED (Static lift only)			
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.5	2.4	2.44a						
7.0					2.33	2.32	2.51	2.27	1.91				
6.0					2.47	2.52	2.45	2.28	1.92	1.66			
5.0			4.32	3.73	3.31	2.95	2.61	2.23	1.92	1.65	1.44		
4.0	4.44	3.69	3.22	4.23	3.47	2.91	2.47	2.13	1.85	1.61	1.41	1.23	
3.0			3.19	3.37	3.07	2.65	2.29	2.00	1.75	1.54	1.36	1.20	
2.0				2.60	2.59	2.41	2.12	1.86	1.65	1.46	1.30	1.15	
1.0				2.13	2.21	2.18	1.99	1.75	1.56	1.39	1.24	1.11	
0.0				1.97	1.98	2.00	1.92	1.69	1.50	1.33	1.20	1.08	
-1.0				1.93	1.86	1.94	1.89	1.65	1.46	1.31	1.17	1.06	
-2.0			2.21	1.97	1.97	2.21	1.90	1.65	1.46	1.31	1.18		
-3.0		2.70	2.31	2.19	2.70	2.26	1.93	1.69	1.50	1.28			
-4.0			3.07	2.89	2.57	2.24	1.94	1.67					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
PAGE	3 Of 24





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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1c													
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
45° - 135°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.56	1.53	1.55						
7.0					1.47	1.47	1.58	1.42	1.17				
6.0					1.55	1.58	1.54	1.44	1.19	1.01			
5.0			2.57	2.27	2.03	1.83	1.64	1.39	1.18	1.00	0.85		
4.0	2.64	2.24	1.98	2.52	2.11	1.78	1.51	1.30	1.12	0.96	0.83	0.70	
3.0			1.88	1.98	1.79	1.56	1.36	1.18	1.03	0.90	0.78	0.67	
2.0				1.47	1.46	1.35	1.20	1.06	0.93	0.82	0.72	0.63	
1.0				1.16	1.21	1.18	1.08	0.96	0.85	0.76	0.67	0.59	
0.0				1.04	1.05	1.06	1.01	0.89	0.79	0.71	0.63	0.56	
-1.0				1.00	0.97	1.01	0.98	0.86	0.76	0.68	0.60	0.54	
-2.0			1.15	1.02	1.02	1.15	0.99	0.86	0.76	0.68	0.61		
-3.0		1.41	1.21	1.14	1.42	1.19	1.03	0.90	0.80	0.67			
-4.0			1.61	1.52	1.37	1.20	1.05	0.90					

1c													
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
45° - 135°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.45	2.40	2.44						
7.0					2.30	2.29	2.47	2.23	1.87				
6.0					2.43	2.49	2.42	2.25	1.89	1.64			
5.0			4.26	3.68	3.26	2.91	2.57	2.19	1.89	1.62	1.42		
4.0	4.38	3.63	3.17	4.17	3.42	2.86	2.43	2.09	1.81	1.58	1.39	1.21	
3.0			3.14	3.32	3.02	2.61	2.25	1.96	1.72	1.51	1.33	1.18	
2.0				2.56	2.54	2.37	2.08	1.83	1.61	1.43	1.27	1.13	
1.0				2.09	2.17	2.14	1.95	1.72	1.53	1.36	1.21	1.09	
0.0				1.93	1.94	1.96	1.88	1.65	1.46	1.31	1.17	1.05	
-1.0				1.89	1.82	1.90	1.85	1.62	1.43	1.28	1.15	1.04	
-2.0			2.17	1.93	1.93	2.17	1.86	1.62	1.43	1.28	1.16		
-3.0		2.65	2.26	2.14	2.65	2.22	1.9	1.65	1.47	1.25			
-4.0			3.01	2.83	2.52	2.2	1.9	1.64					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
PAGE	4 Of 24



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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015

This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1d			ROAD										
			LEVEL ROAD @ 50% of tipping load										
			SECTOR 135° - 150° Over Fixed Axle										
OSC. AXLE											FLOAT (Lift & Carry)		
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.40	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.90	
-1.0				3.21	3.11	3.22	3.16	2.80	2.50	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.80	2.50	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.20	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

1d			ROAD										
			LEVEL ROAD @ 50% of tipping load										
			SECTOR 135° - 150° Over Fixed Axle										
OSC. AXLE											LOCKED (Static lift only)		
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.4	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.9	
-1.0				3.21	3.11	3.22	3.16	2.8	2.5	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.8	2.5	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.2	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015

This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1e													
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
150° - 160°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.40	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.90	
-1.0				3.21	3.11	3.22	3.16	2.80	2.50	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.80	2.50	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.20	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

1e													
	ROAD												
	LEVEL ROAD @ 50% of tipping load												
SECTOR													
160° - 180° Over Fixed Axle													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.40	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.90	
-1.0				3.21	3.11	3.22	3.16	2.80	2.50	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.80	2.50	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.20	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

1f	ROAD												
	LEVEL ROAD @ 50% of tipping load												
	SECTOR 160° - 180°												
OSC. AXLE FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.40	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.90	
-1.0				3.21	3.11	3.22	3.16	2.80	2.50	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.80	2.50	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.20	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

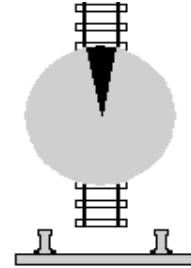
1f	ROAD												
	LEVEL ROAD @ 50% of tipping load												
	SECTOR 160° - 180°												
OSC. AXLE LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.47	3.45	3.45	3.32	2.69a				
6.0					3.65	3.73	3.63	3.40	2.93	2.61			
5.0			6.11	5.17k	4.25k	4.31	3.85	3.35	2.94	2.59	2.32		
4.0	6.26	5.22	4.67	6.02	5.03	4.27	3.71	3.25	2.87	2.56	2.29	2.05	
3.0			4.72	4.98	4.60	4.04	3.54	3.12	2.78	2.49	2.23	2.02	
2.0				4.03	4.02	3.81	3.37	2.99	2.68	2.41	2.18	1.97	
1.0				3.45	3.55	3.52	3.25	2.89	2.59	2.34	2.12	1.93	
0.0				3.25	3.26	3.29	3.18	2.83	2.53	2.29	2.08	1.90	
-1.0				3.21	3.11	3.22	3.16	2.80	2.50	2.26	2.06	1.88	
-2.0			3.63	3.27	3.28	3.63	3.16	2.80	2.50	2.26	2.06		
-3.0		4.31	3.75	3.59	4.31	3.67	3.20	2.83	2.54	2.21			
-4.0			4.36b	4.25b	3.92	3.51b	3.12b	2.74b					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2a													
	RAIL												
	LEVEL RAIL @ 45% of tipping load												
SECTOR													
+/-10° Over Float Axle													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.18	2.14	2.17						
7.0					2.06	2.06	2.20	2.01	1.72				
6.0					2.17	2.21	2.16	2.02	1.73	1.52			
5.0			3.48	3.09	2.79	2.53	2.28	1.98	1.73	1.51	1.34		
4.0	3.56	3.06	2.73	3.42	2.90	2.49	2.16	1.90	1.67	1.48	1.31	1.16	
3.0			2.69	2.82	2.60	2.29	2.02	1.79	1.59	1.42	1.27	1.13	
2.0				2.24	2.23	2.10	1.88	1.68	1.51	1.35	1.22	1.09	
1.0				1.88	1.94	1.92	1.77	1.59	1.43	1.29	1.17	1.06	
0.0				1.76	1.77	1.78	1.72	1.53	1.38	1.25	1.13	1.03	
-1.0				1.72	1.67	1.73	1.69	1.51	1.35	1.22	1.11	1.02	
-2.0			1.94	1.75	1.76	1.94	1.70	1.51	1.35	1.22	1.12		
-3.0		2.30	2.01	1.92	2.30	1.98	1.73	1.54	1.39	1.20			
-4.0			2.56	2.43	2.21	1.97	1.74	1.52					

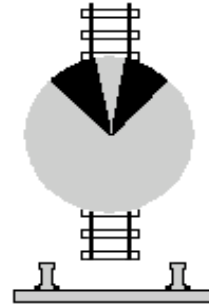
2a													
	RAIL												
	LEVEL RAIL @ 50% of tipping load												
SECTOR													
+/-10° Over Float Axle													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.88a	3.13a	2.53a						
7.0					3.39	3.38	3.38	3.26a	2.69a				
6.0					3.57	3.65	3.55	3.33	2.87	2.54			
5.0			5.98	5.17k	4.25k	4.22	3.76	3.27	2.87	2.53	2.26		
4.0	6.13	5.11	4.57	5.89	4.92	4.17	3.63	3.18	2.80	2.50	2.23	2.00	
3.0			4.61	4.86	4.50	3.95	3.45	3.05	2.71	2.42	2.18	1.96	
2.0				3.93	3.92	3.72	3.28	2.92	2.61	2.35	2.12	1.92	
1.0				3.36	3.46	3.43	3.16	2.82	2.52	2.28	2.06	1.88	
0.0				3.17	3.17	3.20	3.10	2.75	2.47	2.23	2.02	1.84	
-1.0				3.12	3.02	3.14	3.07	2.72	2.44	2.20	2.00	1.83	
-2.0			3.54	3.19	3.19	3.54	3.08	2.72	2.43	2.20	2.01		
-3.0		4.20	3.66	3.49	4.20	3.58	3.11	2.75	2.47	2.15			
-4.0			4.36b	4.25b	3.91b	3.48	3.07	2.67					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
PAGE	8 Of 24





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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2b													
	RAIL												
	LEVEL RAIL @ 45% of tipping load												
SECTOR													
10° - 40°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.45	1.42	1.44						
7.00					1.37	1.37	1.46	1.33	1.11				
6.00					1.44	1.47	1.43	1.34	1.13	0.97			
5.00			2.27	2.03	1.84	1.68	1.51	1.30	1.12	0.96	0.83		
4.00	2.32	2.01	1.80	2.23	1.90	1.63	1.41	1.22	1.06	0.93	0.81	0.70	
3.00			1.71	1.79	1.64	1.45	1.27	1.12	0.99	0.87	0.77	0.67	
2.00				1.37	1.36	1.26	1.14	1.02	0.91	0.81	0.72	0.63	
1.00				1.11	1.15	1.13	1.03	0.93	0.84	0.75	0.67	0.60	
0.00				1.00	1.02	1.02	0.98	0.88	0.79	0.71	0.63	0.57	
-1.00				0.97	0.95	0.98	0.96	0.85	0.76	0.68	0.61	0.56	
-2.00			1.10	0.99	0.99	1.10	0.96	0.85	0.76	0.68	0.62		
-3.00		1.32	1.15	1.09	1.32	1.14	0.99	0.88	0.79	0.67			
-4.00			1.48	1.41	1.28	1.14	1.01	0.88					

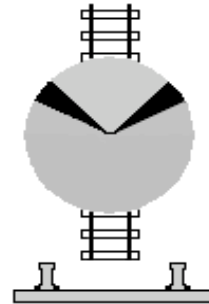
2b													
	RAIL												
	LEVEL RAIL @ 60% of tipping load												
SECTOR													
10° - 40°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.67	2.62	2.53a						
7.00					2.52	2.50	2.70	2.45	2.05				
6.00					2.65	2.72	2.64	2.46	2.07	1.79			
5.00			4.55	3.96	3.53	3.16	2.81	2.40	2.07	1.78	1.55		
4.00	4.67	3.92	3.44	4.46	3.69	3.10	2.65	2.28	1.98	1.74	1.52	1.32	
3.00			3.38	3.57	3.25	2.82	2.45	2.14	1.87	1.65	1.46	1.29	
2.00				2.75	2.73	2.55	2.25	1.98	1.76	1.56	1.39	1.23	
1.00				2.25	2.33	2.30	2.10	1.86	1.66	1.48	1.32	1.18	
0.00				2.07	2.09	2.11	2.02	1.78	1.59	1.42	1.27	1.14	
-1.00				2.03	1.96	2.04	1.99	1.75	1.55	1.38	1.25	1.13	
-2.00			2.32	2.07	2.07	2.32	2.00	1.75	1.55	1.38	1.25		
-3.00		2.82	2.42	2.29	2.82	2.37	2.04	1.79	1.59	1.36			
-4.00			3.19	3.01	2.69	2.36	2.05	1.77					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
PAGE	9 Of 24



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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2c													
	RAIL												
	LEVEL RAIL @ 45% of tipping load												
SECTOR													
40° to 60°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.28	1.26	1.28						
7.00					1.22	1.21	1.29	1.18	0.97				
6.00					1.28	1.30	1.27	1.19	0.99	0.84			
5.00			2.03	1.81	1.64	1.49	1.34	1.14	0.98	0.83	0.71		
4.00	2.07	1.79	1.60	1.99	1.69	1.44	1.24	1.07	0.92	0.80	0.69	0.59	
3.00			1.51	1.58	1.43	1.26	1.11	0.97	0.85	0.74	0.65	0.56	
2.00				1.18	1.17	1.08	0.97	0.87	0.77	0.68	0.60	0.52	
1.00				0.93	0.97	0.95	0.87	0.78	0.70	0.62	0.55	0.49	
0.00				0.83	0.85	0.85	0.81	0.72	0.65	0.58	0.51	0.46	
-1.00				0.80	0.78	0.81	0.79	0.70	0.62	0.55	0.49	0.44	
-2.00			0.91	0.82	0.82	0.91	0.79	0.69	0.62	0.55	0.50		
-3.00		1.11	0.96	0.91	1.11	0.95	0.82	0.73	0.65	0.55			
-4.00			1.25	1.19	1.08	0.96	0.84	0.73					

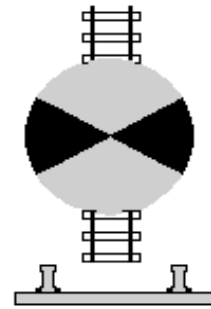
2c													
	RAIL												
	LEVEL RAIL @ 60% of tipping load												
SECTOR													
40° to 60°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.37	2.33	2.36						
7.00					2.24	2.22	2.39	2.17	1.82				
6.00					2.35	2.41	2.34	2.18	1.83	1.58			
5.00			3.97	3.47	3.10	2.79	2.48	2.12	1.83	1.57	1.36		
4.00	4.07	3.43	3.03	3.89	3.23	2.73	2.34	2.01	1.75	1.52	1.33	1.15	
3.00			2.95	3.11	2.83	2.46	2.14	1.87	1.64	1.44	1.27	1.11	
2.00				2.38	2.36	2.19	1.95	1.72	1.53	1.35	1.20	1.07	
1.00				1.93	2.01	1.97	1.80	1.60	1.43	1.27	1.14	1.02	
0.00				1.77	1.79	1.80	1.72	1.53	1.36	1.21	1.09	0.98	
-1.00				1.72	1.67	1.74	1.69	1.49	1.32	1.18	1.06	0.96	
-2.00			1.97	1.76	1.76	1.97	1.70	1.49	1.32	1.18	1.07		
-3.00		2.39	2.06	1.95	2.40	2.02	1.74	1.53	1.37	1.16			
-4.00			2.71	2.56	2.30	2.02	1.76	1.52					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2d 	RAIL												
	LEVEL RAIL @ 45% of tipping load												
	SECTOR 60° - 120°												
	OSC. AXLE FLOAT (Lift & Carry)												
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.10	1.08	1.10						
7.0					1.04	1.03	1.11	1.00	0.81				
6.0					1.09	1.12	1.09	1.01	0.82	0.68			
5.0			1.81	1.60	1.44	1.30	1.16	0.97	0.81	0.67	0.56		
4.0	1.85	1.58	1.40	1.78	1.48	1.24	1.05	0.89	0.76	0.64	0.54	0.44	
3.0			1.29	1.36	1.22	1.06	0.91	0.79	0.68	0.58	0.49	0.41	
2.0				0.96	0.95	0.87	0.77	0.68	0.59	0.51	0.44	0.37	
1.0				0.72	0.76	0.73	0.66	0.59	0.52	0.46	0.39	0.34	
0.0				0.62	0.64	0.64	0.60	0.53	0.47	0.41	0.36	0.31	
-1.0				0.59	0.58	0.60	0.58	0.50	0.44	0.38	0.34	0.29	
-2.0			0.69	0.60	0.60	0.69	0.58	0.50	0.44	0.38	0.34		
-3.0		0.86	0.73	0.68	0.87	0.72	0.62	0.53	0.48	0.38			
-4.0			1.00	0.94	0.84	0.74	0.64	0.54					

2d 	RAIL												
	LEVEL RAIL @ 60% of tipping load												
	SECTOR 60° - 120°												
	OSC. AXLE LOCKED (Static lift only)												
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.08	2.04	2.07						
7.0					1.96	1.95	2.10	1.90	1.57				
6.0					2.06	2.11	2.05	1.91	1.59	1.36			
5.0			3.50	3.06	2.73	2.46	2.18	1.85	1.58	1.34	1.15		
4.0	3.59	3.03	2.66	3.43	2.84	2.39	2.03	1.74	1.50	1.30	1.12	0.96	
3.0			2.56	2.70	2.45	2.12	1.84	1.60	1.40	1.22	1.06	0.92	
2.0				2.03	2.01	1.86	1.65	1.45	1.28	1.13	0.99	0.87	
1.0				1.61	1.68	1.65	1.50	1.33	1.18	1.05	0.93	0.82	
0.0				1.46	1.48	1.49	1.42	1.25	1.11	0.99	0.88	0.78	
-1.0				1.42	1.37	1.43	1.39	1.22	1.07	0.96	0.85	0.77	
-2.0			1.63	1.45	1.45	1.63	1.40	1.22	1.07	0.96	0.86		
-3.0		2.00	1.70	1.61	2.00	1.68	1.44	1.26	1.12	0.94			
-4.0			2.27	2.14	1.92	1.68	1.46	1.26					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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25 Benson Rd, Nuffield Industrial Estate
 Poole, Dorset. BH17 0GB
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 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2e													
	RAIL												
	LEVEL RAIL @ 45% of tipping load												
SECTOR													
120° - 130°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.37	1.34	1.36						
7.0					1.30	1.29	1.38	1.26	1.05				
6.0					1.36	1.39	1.35	1.27	1.06	0.91			
5.0			2.13	1.91	1.73	1.58	1.43	1.22	1.06	0.90	0.78		
4.0	2.17	1.89	1.70	2.09	1.78	1.53	1.33	1.15	1.00	0.87	0.76	0.65	
3.0			1.61	1.68	1.53	1.35	1.19	1.05	0.93	0.82	0.72	0.62	
2.0				1.28	1.27	1.18	1.06	0.95	0.85	0.75	0.67	0.59	
1.0				1.02	1.07	1.04	0.96	0.86	0.78	0.70	0.62	0.55	
0.0				0.93	0.94	0.95	0.90	0.81	0.73	0.65	0.59	0.52	
-1.0				0.90	0.87	0.91	0.88	0.78	0.70	0.63	0.57	0.51	
-2.0			1.01	0.91	0.91	1.01	0.89	0.78	0.70	0.63	0.57		
-3.0		1.22	1.06	1.01	1.22	1.05	0.92	0.81	0.73	0.62			
-4.0			1.36	1.30	1.18	1.06	0.93	0.82					

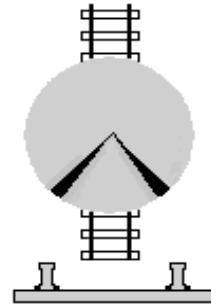
2e													
	RAIL												
	LEVEL RAIL @ 60% of tipping load												
SECTOR													
120° - 130°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.74	2.70	2.53a						
7.0					2.59	2.58	2.75a	2.53	2.17				
6.0					2.73	2.78	2.71	2.54	2.18	1.92			
5.0			4.48	3.94	3.55	3.21	2.87	2.49	2.18	1.91	1.69		
4.0	4.58	3.90	3.46	4.40	3.70	3.16	2.74	2.40	2.11	1.87	1.66	1.48	
3.0			3.44	3.62	3.34	2.94	2.58	2.28	2.02	1.80	1.61	1.44	
2.0				2.89	2.88	2.71	2.41	2.15	1.92	1.73	1.56	1.40	
1.0				2.44	2.52	2.49	2.29	2.05	1.84	1.66	1.50	1.36	
0.0				2.28	2.29	2.31	2.23	1.99	1.78	1.61	1.46	1.33	
-1.0				2.24	2.17	2.26	2.21	1.96	1.75	1.58	1.44	1.31	
-2.0			2.54	2.29	2.29	2.54	2.21	1.96	1.75	1.58	1.45		
-3.0		3.01	2.63	2.51	3.01	2.58	2.25	1.99	1.79	1.55			
-4.0			3.36	3.19	2.88	2.55	2.25	1.97					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar).
	All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2f				RAIL									LEVEL RAIL @ 45% of tipping load	
				SECTOR									130° - 140°	
				OSC. AXLE									FLOAT (Lift & Carry)	
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	
8.0					1.53	1.50	1.52							
7.0					1.45	1.45	1.54	1.41	1.19					
6.0					1.52	1.55	1.51	1.42	1.20	1.04				
5.0			2.37	2.12	1.93	1.77	1.59	1.38	1.20	1.03	0.90			
4.0	2.42	2.10	1.89	2.33	1.99	1.72	1.49	1.30	1.14	1.00	0.88	0.76		
3.0			1.81	1.89	1.73	1.54	1.36	1.20	1.07	0.94	0.84	0.74		
2.0				1.47	1.46	1.36	1.23	1.10	0.99	0.88	0.79	0.70		
1.0				1.20	1.24	1.22	1.13	1.02	0.92	0.83	0.74	0.67		
0.0				1.10	1.11	1.12	1.07	0.96	0.87	0.78	0.71	0.64		
-1.0				1.07	1.04	1.08	1.05	0.94	0.84	0.76	0.69	0.62		
-2.0			1.20	1.09	1.09	1.20	1.05	0.94	0.84	0.76	0.69			
-3.0		1.43	1.25	1.19	1.43	1.24	1.08	0.96	0.87	0.75				
-4.0			1.59	1.52	1.39	1.24	1.10	0.97						

2f				RAIL									LEVEL RAIL @ 60% of tipping load	
				SECTOR									130° - 140°	
				OSC. AXLE									LOCKED (Static lift only)	
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	
8.0					2.88a	2.96	2.53a							
7.0					2.85	2.84	2.84	2.78	2.37					
6.0					2.99	3.06	2.98	2.79	2.41	2.13				
5.0			4.90	4.32	3.89	3.52	3.15	2.74	2.41	2.12	1.89			
4.0	5.02	4.28	3.80	4.82	4.06	3.48	3.02	2.65	2.34	2.08	1.86	1.66		
3.0			3.80	3.99	3.69	3.25	2.86	2.53	2.25	2.01	1.81	1.62		
2.0				3.22	3.20	3.03	2.69	2.40	2.15	1.94	1.75	1.58		
1.0				2.73	2.82	2.79	2.58	2.30	2.07	1.87	1.69	1.54		
0.0				2.57	2.58	2.60	2.51	2.24	2.01	1.82	1.65	1.51		
-1.0				2.53	2.45	2.54	2.49	2.21	1.98	1.79	1.63	1.49		
-2.0			2.85	2.58	2.58	2.85	2.49	2.21	1.98	1.79	1.64			
-3.0		3.38	2.95	2.82	3.38	2.89	2.53	2.24	2.02	1.76				
-4.0			3.76	3.57	3.23	2.86	2.53	2.21						

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2g													
	RAIL												
	LEVEL RAIL @ 45% of tipping load												
SECTOR													
140° - 160°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.82	1.79	1.81						
7.0					1.73	1.72	1.83	1.68	1.44				
6.0					1.81	1.84	1.80	1.69	1.45	1.27			
5.0			2.80	2.51	2.29	2.09	1.89	1.65	1.45	1.26	1.12		
4.0	2.85	2.49	2.24	2.75	2.36	2.05	1.79	1.57	1.39	1.23	1.09	0.96	
3.0			2.18	2.27	2.10	1.87	1.66	1.47	1.32	1.17	1.05	0.94	
2.0				1.81	1.80	1.69	1.52	1.37	1.23	1.11	1.00	0.90	
1.0				1.51	1.56	1.54	1.42	1.29	1.16	1.05	0.95	0.86	
0.0				1.40	1.41	1.42	1.37	1.23	1.12	1.01	0.92	0.84	
-1.0				1.37	1.33	1.38	1.35	1.21	1.09	0.99	0.90	0.82	
-2.0			1.53	1.39	1.39	1.53	1.35	1.21	1.09	0.99	0.91		
-3.0		1.80	1.59	1.52	1.81	1.57	1.38	1.24	1.12	0.97			
-4.0			2.00	1.90	1.74	1.57	1.40	1.23					

2g													
	RAIL												
	LEVEL RAIL @ 60% of tipping load												
SECTOR													
140° - 160°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.88a	3.13a	2.53a						
7.0					3.32	3.31	3.31	3.25	2.69a				
6.0					3.49	3.57	3.47	3.26	2.81	2.50			
5.0			5.77	5.07	4.25k	4.11	3.68	3.21	2.82	2.49	2.22		
4.0	5.91	4.95	4.44	5.68	4.77	4.07	3.54	3.11	2.75	2.45	2.19	1.97	
3.0			4.48	4.71	4.37	3.85	3.37	2.98	2.66	2.38	2.14	1.93	
2.0				3.83	3.81	3.62	3.21	2.86	2.56	2.31	2.09	1.89	
1.0				3.27	3.37	3.34	3.09	2.76	2.48	2.24	2.03	1.85	
0.0				3.09	3.10	3.12	3.02	2.69	2.42	2.19	1.99	1.82	
-1.0				3.05	2.95	3.06	3.00	2.66	2.39	2.16	1.97	1.80	
-2.0			3.44	3.11	3.11	3.44	3.01	2.66	2.39	2.16	1.97		
-3.0		4.07	3.56	3.40	4.07	3.48	3.04	2.70	2.42	2.11			
-4.0			4.35b	4.16	3.80	3.39	3.00	2.61					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar).
	All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

2h 	RAIL												
	LEVEL RAIL @ 45% of tipping load												
	SECTOR 160° - 180°												
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.88a	3.13a	2.53a						
7.0					3.11	3.10	3.10	3.04	2.59a				
6.0					3.27	3.34	3.25	3.05	2.65	2.36			
5.0			5.32	4.70	4.23	3.83	3.44	3.01	2.66	2.35	2.11		
4.0	5.45	4.65	4.13	5.24	4.43	3.81	3.32	2.92	2.59	2.32	2.08	1.87	
3.0			4.17	4.38	4.07	3.60	3.17	2.81	2.51	2.26	2.03	1.84	
2.0				3.58	3.57	3.39	3.02	2.70	2.42	2.19	1.98	1.80	
1.0				3.08	3.17	3.14	2.91	2.61	2.35	2.13	1.93	1.76	
0.0				2.92	2.92	2.95	2.86	2.55	2.30	2.08	1.90	1.73	
-1.0				2.88	2.79	2.89	2.83	2.52	2.27	2.06	1.88	1.72	
-2.0			3.24	2.93	2.94	3.24	2.84	2.52	2.27	2.06	1.88		
-3.0		3.81	3.34	3.20	3.81	3.28	2.87	2.55	2.30	2.01			
-4.0			4.23	4.02	3.64	3.23	2.86	2.51					

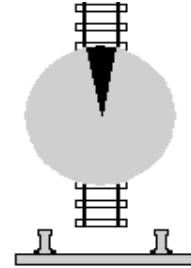
2h 	RAIL												
	LEVEL RAIL @ 60% of tipping load												
	SECTOR 160° - 180°												
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.88a	3.13a	2.53a						
7.0					3.55	3.54	3.53	3.41	2.69a				
6.0					3.73	3.81	3.71	3.49	3.03	2.67			
5.0			6.07	5.17k	4.25k	4.37	3.92	3.43	3.04	2.69	2.41		
4.0	6.21	5.24	4.71	5.98	5.06	4.33	3.79	3.34	2.97	2.66	2.38	2.15	
3.0			4.76	5.00	4.65	4.11	3.62	3.22	2.88	2.59	2.33	2.11	
2.0				4.10	4.09	3.89	3.46	3.09	2.78	2.51	2.28	2.07	
1.0				3.54	3.64	3.61	3.34	2.99	2.70	2.44	2.22	2.03	
0.0				3.35	3.35	3.38	3.28	2.93	2.64	2.39	2.18	2.00	
-1.0				3.31	3.21	3.32	3.26	2.90	2.61	2.37	2.16	1.98	
-2.0			3.72	3.37	3.38	3.72	3.26	2.90	2.61	2.37	2.17		
-3.0		4.37	3.84	3.68	4.37	3.76	3.30	2.93	2.64	2.31			
-4.0			4.36b	4.30	4.00	3.60	3.20	2.79					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3a														
	RAIL													
	50-150mm CANT @ 45% of tipping													
SECTOR														
+/-10° Over Float Axle														
OSC. AXLE														
FLOAT (Lift & Carry)														
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	
8.0					1.73	1.70	1.73							
7.0					1.64	1.63	1.75	1.59	1.33					
6.0					1.72	1.76	1.71	1.60	1.34	1.16				
5.0			2.85	2.51	2.25	2.03	1.82	1.55	1.34	1.15	1.00			
4.0	2.92	2.48	2.20	2.79	2.34	1.98	1.70	1.47	1.28	1.12	0.97	0.84		
3.0			2.13	2.24	2.04	1.78	1.56	1.36	1.20	1.05	0.93	0.81		
2.0				1.72	1.70	1.58	1.41	1.25	1.11	0.99	0.87	0.77		
1.0				1.39	1.44	1.42	1.30	1.16	1.03	0.92	0.83	0.74		
0.0				1.27	1.29	1.29	1.24	1.10	0.98	0.88	0.79	0.71		
-1.0				1.24	1.20	1.25	1.22	1.07	0.95	0.85	0.77	0.69		
-2.0			1.41	1.26	1.26	1.41	1.22	1.07	0.95	0.85	0.77			
-3.0		1.71	1.47	1.40	1.71	1.45	1.25	1.10	0.99	0.84				
-4.0			1.93	1.82	1.64	1.45	1.27	1.10						

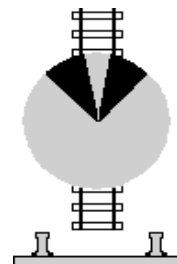
3a														
	RAIL													
	LEVEL RAIL @ 60% of tipping load													
SECTOR														
+/-10° Over Float Axle														
OSC. AXLE														
LOCKED (Static lift only)														
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	
8.0					2.88a	3.13a	2.53a							
7.0					3.02	3.01	3.01	2.94	2.46					
6.0					3.19	3.26	3.17	2.96	2.50	2.19				
5.0			5.52	4.78	4.25k	3.80	3.37	2.89	2.51	2.17	1.91			
4.0	5.66	4.66k	4.14	5.41	4.46	3.74	3.21	2.78	2.42	2.13	1.87	1.65		
3.0			4.12	4.36	3.99	3.46	3.00	2.62	2.31	2.04	1.81	1.61		
2.0				3.41	3.39	3.18	2.80	2.47	2.19	1.95	1.74	1.56		
1.0				2.83	2.93	2.89	2.65	2.34	2.09	1.87	1.68	1.51		
0.0				2.63	2.64	2.67	2.57	2.26	2.02	1.81	1.63	1.47		
-1.0				2.58	2.50	2.60	2.54	2.23	1.98	1.77	1.60	1.45		
-2.0			2.96	2.64	2.64	2.95	2.54	2.23	1.98	1.77	1.61			
-3.0		3.57	3.07	2.92	3.58	3.01	2.59	2.27	2.02	1.73				
-4.0			4.05	3.81	3.40	2.98	2.59	2.24						

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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25 Benson Rd, Nuffield Industrial Estate
 Poole, Dorset. BH17 0GB
 Tel: 01202 681190
 Fax: 01202 677909
 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3b													
	RAIL												
	50-150mm CANT @ 45% of tipping												
SECTOR													
10° - 40°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.22	1.20	1.21						
7.00					1.15	1.15	1.23	1.11	0.92				
6.00					1.21	1.23	1.20	1.12	0.93	0.79			
5.00			1.91	1.70	1.55	1.41	1.27	1.08	0.92	0.78	0.67		
4.00	1.95	1.69	1.51	1.87	1.59	1.36	1.17	1.01	0.87	0.75	0.65	0.55	
3.00			1.41	1.48	1.34	1.18	1.04	0.91	0.80	0.70	0.60	0.52	
2.00				1.10	1.09	1.01	0.91	0.81	0.72	0.63	0.56	0.48	
1.00				0.86	0.90	0.88	0.80	0.72	0.65	0.58	0.51	0.45	
0.00				0.77	0.78	0.79	0.75	0.67	0.60	0.53	0.47	0.42	
-1.00				0.74	0.72	0.75	0.72	0.64	0.57	0.51	0.45	0.41	
-2.00			0.84	0.75	0.75	0.84	0.73	0.64	0.57	0.51	0.46		
-3.00		1.02	0.88	0.83	1.03	0.88	0.76	0.67	0.60	0.51			
-4.00			1.15	1.10	1.00	0.89	0.78	0.68					

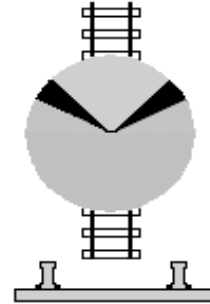
3b													
	RAIL												
	LEVEL RAIL @ 60% of tipping load												
SECTOR													
10° - 40°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.15	2.11	2.14						
7.00					2.02	2.01	2.17	1.96	1.62				
6.00					2.13	2.18	2.12	1.97	1.64	1.40			
5.00			3.67	3.19	2.84	2.55	2.26	1.91	1.63	1.38	1.19		
4.00	3.76	3.15	2.77	3.59	2.96	2.48	2.10	1.80	1.55	1.34	1.16	0.99	
3.00			2.67	2.82	2.55	2.21	1.91	1.66	1.44	1.26	1.10	0.95	
2.00				2.11	2.10	1.93	1.71	1.51	1.33	1.17	1.03	0.90	
1.00				1.68	1.75	1.72	1.56	1.38	1.22	1.09	0.96	0.85	
0.00				1.52	1.54	1.55	1.48	1.30	1.15	1.02	0.91	0.81	
-1.00				1.48	1.43	1.49	1.45	1.27	1.12	0.99	0.88	0.79	
-2.00			1.70	1.51	1.51	1.70	1.46	1.26	1.11	0.99	0.89		
-3.00		2.09	1.78	1.68	2.10	1.75	1.50	1.31	1.16	0.98			
-4.00			2.39	2.25	2.01	1.75	1.52	1.31					

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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25 Benson Rd, Nuffield Industrial Estate
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3c													
	RAIL 50-150mm CANT @ 45% of tipping SECTOR 40° to 60° OSC. AXLE FLOAT (Lift & Carry)												
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					1.12	1.10	1.11						
7.00					1.06	1.05	1.13	1.02	0.84				
6.00					1.11	1.13	1.11	1.03	0.85	0.72			
5.00			1.76	1.57	1.43	1.30	1.17	0.99	0.84	0.71	0.60		
4.00	1.80	1.56	1.40	1.73	1.47	1.25	1.07	0.92	0.79	0.67	0.57	0.48	
3.00			1.29	1.35	1.22	1.08	0.94	0.82	0.71	0.62	0.53	0.45	
2.00				0.99	0.98	0.90	0.81	0.72	0.63	0.56	0.48	0.42	
1.00				0.76	0.79	0.77	0.71	0.63	0.56	0.50	0.44	0.38	
0.00				0.67	0.68	0.68	0.65	0.58	0.51	0.46	0.40	0.35	
-1.00				0.64	0.62	0.64	0.62	0.55	0.49	0.43	0.38	0.34	
-2.00			0.73	0.65	0.65	0.73	0.63	0.55	0.48	0.43	0.39		
-3.00		0.89	0.77	0.72	0.90	0.76	0.66	0.58	0.52	0.43			
-4.00			1.02	0.97	0.88	0.78	0.68	0.59					

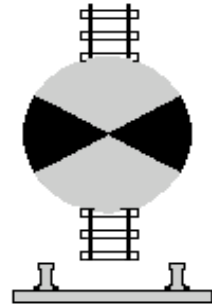
3c													
	RAIL LEVEL RAIL @ 60% of tipping load SECTOR 40° to 60° OSC. AXLE LOCKED (Static lift only)												
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.00					2.06	2.02	2.06						
7.00					1.94	1.93	2.09	1.87	1.53				
6.00					2.05	2.10	2.04	1.89	1.55	1.31			
5.00			3.65	3.14	2.78	2.47	2.17	1.82	1.54	1.29	1.10		
4.00	3.75	3.10	2.70	3.57	2.90	2.40	2.02	1.71	1.46	1.25	1.07	0.90	
3.00			2.59	2.75	2.47	2.11	1.81	1.56	1.35	1.16	1.00	0.86	
2.00				2.01	2.00	1.83	1.60	1.40	1.23	1.07	0.93	0.81	
1.00				1.57	1.64	1.61	1.45	1.27	1.12	0.99	0.87	0.76	
0.00				1.41	1.43	1.44	1.36	1.19	1.05	0.92	0.82	0.72	
-1.00				1.36	1.32	1.37	1.33	1.15	1.01	0.89	0.79	0.70	
-2.00			1.58	1.39	1.39	1.58	1.34	1.15	1.01	0.89	0.80		
-3.00		1.98	1.66	1.56	1.99	1.64	1.38	1.20	1.06	0.87			
-4.00			2.29	2.14	1.90	1.64	1.41	1.20					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3d 	RAIL												
	50-150mm CANT @ 45% of tipping												
	SECTOR 60° - 120°												
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					0.99	0.97	0.98						
7.0					0.93	0.93	1.00	0.90	0.71				
6.0					0.98	1.01	0.98	0.91	0.72	0.59			
5.0			1.65	1.45	1.30	1.17	1.04	0.86	0.71	0.58	0.47		
4.0	1.69	1.44	1.27	1.62	1.34	1.12	0.93	0.78	0.66	0.55	0.45	0.36	
3.0			1.15	1.21	1.08	0.93	0.80	0.68	0.58	0.49	0.41	0.33	
2.0				0.83	0.82	0.74	0.66	0.57	0.50	0.42	0.36	0.29	
1.0				0.59	0.63	0.61	0.55	0.48	0.42	0.36	0.31	0.26	
0.0				0.50	0.52	0.52	0.48	0.42	0.37	0.32	0.27	0.23	
-1.0				0.47	0.46	0.48	0.46	0.39	0.34	0.29	0.25	0.21	
-2.0			0.55	0.48	0.48	0.55	0.46	0.39	0.34	0.29	0.26		
-3.0		0.71	0.59	0.55	0.72	0.59	0.50	0.43	0.38	0.29			
-4.0			0.83	0.78	0.70	0.61	0.52	0.44					

3d 	RAIL												
	LEVEL RAIL @ 60% of tipping load												
	SECTOR 60° - 120°												
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.89	1.85	1.88						
7.0					1.78	1.77	1.91	1.72	1.41				
6.0					1.88	1.92	1.87	1.73	1.43	1.20			
5.0			3.22	2.81	2.50	2.24	1.98	1.67	1.41	1.19	1.01		
4.0	3.31	2.77	2.44	3.15	2.60	2.17	1.84	1.56	1.34	1.15	0.98	0.83	
3.0			2.32	2.45	2.20	1.90	1.64	1.42	1.23	1.07	0.92	0.79	
2.0				1.80	1.79	1.64	1.45	1.27	1.12	0.98	0.85	0.74	
1.0				1.40	1.47	1.43	1.30	1.15	1.02	0.90	0.79	0.69	
0.0				1.25	1.27	1.28	1.22	1.07	0.94	0.83	0.74	0.65	
-1.0				1.21	1.17	1.22	1.19	1.03	0.91	0.80	0.71	0.63	
-2.0			1.40	1.24	1.24	1.40	1.19	1.03	0.90	0.80	0.72		
-3.0		1.74	1.47	1.39	1.74	1.45	1.24	1.07	0.96	0.79			
-4.0			1.99	1.88	1.67	1.46	1.26	1.08					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
 Poole, Dorset. BH17 0GB
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 E-mail: info@prolec.co.uk

MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3e													
	RAIL												
	50-150mm CANT @ 45% of tipping												
SECTOR													
120° - 130°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.15	1.13	1.14						
7.0					1.09	1.08	1.16	1.05	0.86				
6.0					1.14	1.16	1.13	1.06	0.88	0.74			
5.0			1.81	1.61	1.46	1.33	1.20	1.02	0.87	0.73	0.62		
4.0	1.84	1.60	1.43	1.77	1.50	1.28	1.10	0.94	0.81	0.70	0.60	0.50	
3.0			1.33	1.39	1.26	1.11	0.97	0.85	0.74	0.64	0.55	0.47	
2.0				1.02	1.01	0.93	0.84	0.75	0.66	0.58	0.51	0.44	
1.0				0.79	0.82	0.80	0.73	0.66	0.59	0.52	0.46	0.40	
0.0				0.70	0.71	0.71	0.67	0.60	0.54	0.48	0.42	0.37	
-1.0				0.67	0.65	0.67	0.65	0.58	0.51	0.45	0.40	0.36	
-2.0			0.76	0.68	0.68	0.76	0.66	0.58	0.51	0.45	0.41		
-3.0		0.93	0.80	0.76	0.94	0.80	0.69	0.61	0.55	0.45			
-4.0			1.06	1.00	0.91	0.81	0.71	0.62					

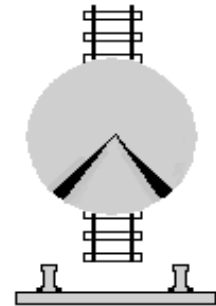
3e													
	ROAD												
	50-150mm CANT @ 50% of tipping												
SECTOR													
120° - 130°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.43	2.39	2.42						
7.0					2.30	2.28	2.45	2.23	1.88				
6.0					2.41	2.47	2.40	2.24	1.89	1.64			
5.0			4.01	3.52	3.16	2.85	2.55	2.18	1.89	1.63	1.42		
4.0	4.10	3.48	3.08	3.93	3.29	2.79	2.40	2.08	1.81	1.59	1.39	1.21	
3.0			3.01	3.17	2.89	2.53	2.21	1.94	1.70	1.50	1.33	1.17	
2.0				2.45	2.44	2.27	2.02	1.79	1.59	1.42	1.26	1.12	
1.0				2.01	2.08	2.05	1.87	1.67	1.49	1.34	1.20	1.07	
0.0				1.85	1.86	1.88	1.80	1.60	1.43	1.28	1.15	1.04	
-1.0				1.80	1.75	1.82	1.77	1.56	1.39	1.25	1.12	1.02	
-2.0			2.05	1.84	1.84	2.05	1.78	1.56	1.39	1.25	1.13		
-3.0		2.47	2.13	2.03	2.47	2.10	1.82	1.60	1.44	1.23			
-4.0			2.78	2.63	2.37	2.09	1.83	1.59					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar).
	All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3f		RAIL		50-150mm CANT @ 45% of tipping										
		SECTOR		130° - 140°										
		OSC. AXLE		FLOAT (Lift & Carry)										
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0						1.24	1.22	1.23						
7.0						1.18	1.17	1.25	1.14	0.94				
6.0						1.23	1.26	1.23	1.15	0.95	0.81			
5.0				1.94	1.74	1.58	1.44	1.29	1.10	0.95	0.80	0.69		
4.0	1.98	1.72	1.54	1.91	1.62	1.39	1.19	1.03	0.89	0.77	0.66	0.56		
3.0			1.45	1.51	1.37	1.21	1.06	0.93	0.82	0.72	0.62	0.54		
2.0				1.13	1.12	1.04	0.93	0.83	0.74	0.65	0.57	0.50		
1.0				0.89	0.93	0.91	0.83	0.75	0.67	0.60	0.53	0.47		
0.0				0.79	0.81	0.81	0.77	0.69	0.62	0.55	0.49	0.44		
-1.0				0.76	0.74	0.77	0.75	0.66	0.59	0.53	0.47	0.42		
-2.0			0.87	0.78	0.78	0.87	0.75	0.66	0.59	0.53	0.48			
-3.0		1.05	0.91	0.86	1.06	0.90	0.78	0.69	0.63	0.52				
-4.0			1.19	1.13	1.03	0.91	0.80	0.70						

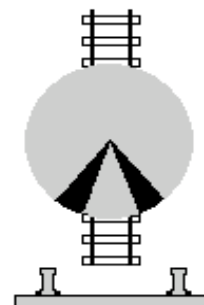
3f		RAIL		50-150mm CANT @ 60% of tipping										
		SECTOR		130° - 140°										
		OSC. AXLE		LOCKED (Static lift only)										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.0	6.5	7.0	7.5	8.0
8.00						2.84	2.78	2.53a						
7.00						2.66	2.65	2.75a	2.59	2.16				
6.00						2.82	2.89	2.80	2.60	2.18	1.88			
5.00				5.03	4.32	3.81	3.39	2.99	2.53	2.17	1.86	1.62		
4.00	5.17	4.27	3.71	4.92	4.01	3.33	2.82	2.42	2.09	1.82	1.58	1.38		
3.00			3.66	3.89	3.53	3.03	2.61	2.26	1.97	1.73	1.52	1.34		
2.00				2.96	2.95	2.74	2.40	2.10	1.85	1.64	1.45	1.28		
1.00				2.41	2.50	2.47	2.24	1.97	1.75	1.55	1.38	1.23		
0.00				2.22	2.23	2.25	2.16	1.89	1.67	1.49	1.33	1.19		
-1.00				2.17	2.09	2.18	2.13	1.85	1.63	1.45	1.30	1.17		
-2.00			2.50	2.21	2.22	2.50	2.13	1.85	1.63	1.45	1.31			
-3.00		3.07	2.61	2.47	3.08	2.56	2.18	1.89	1.68	1.42				
-4.0			3.52	3.30	2.92	2.54	2.19	1.88						

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar). All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3g													
	RAIL												
	50-150mm CANT @ 45% of tipping												
SECTOR													
140° - 160°													
OSC. AXLE													
FLOAT (Lift & Carry)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					1.43	1.41	1.43						
7.0					1.36	1.35	1.44	1.32	1.11				
6.0					1.42	1.45	1.42	1.33	1.12	0.97			
5.0			2.23	1.99	1.81	1.66	1.49	1.29	1.11	0.96	0.83		
4.0	2.27	1.98	1.77	2.19	1.87	1.61	1.39	1.21	1.06	0.92	0.81	0.70	
3.0			1.69	1.77	1.61	1.43	1.26	1.11	0.98	0.87	0.76	0.67	
2.0				1.36	1.35	1.25	1.13	1.01	0.90	0.81	0.72	0.63	
1.0				1.10	1.14	1.12	1.03	0.93	0.83	0.75	0.67	0.60	
0.0				1.00	1.01	1.01	0.97	0.87	0.78	0.71	0.63	0.57	
-1.0				0.97	0.94	0.97	0.95	0.84	0.76	0.68	0.61	0.56	
-2.0			1.09	0.98	0.98	1.09	0.95	0.84	0.76	0.68	0.62		
-3.0		1.30	1.14	1.08	1.31	1.12	0.98	0.87	0.79	0.67			
-4.0			1.46	1.39	1.27	1.13	1.00	0.88					

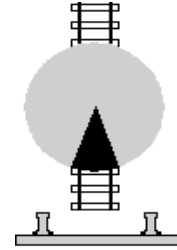
3g													
	ROAD												
	50-150mm CANT @ 50% of tipping												
SECTOR													
140° - 160°													
OSC. AXLE													
LOCKED (Static lift only)													
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0					2.88a	2.99	2.53a						
7.0					2.88	2.87	2.87	2.82	2.41				
6.0					3.02	3.08	3.01	2.83	2.45	2.18			
5.0			4.82	4.29	3.88	3.53	3.17	2.78	2.45	2.17	1.94		
4.0	4.93	4.24	3.79	4.75	4.04	3.49	3.05	2.69	2.39	2.13	1.91	1.71	
3.0			3.79	3.97	3.69	3.27	2.89	2.57	2.30	2.06	1.86	1.68	
2.0				3.24	3.22	3.05	2.73	2.45	2.21	1.99	1.81	1.64	
1.0				2.77	2.85	2.82	2.62	2.35	2.13	1.93	1.75	1.60	
0.0				2.61	2.62	2.64	2.56	2.29	2.07	1.88	1.71	1.57	
-1.0				2.57	2.50	2.59	2.54	2.26	2.04	1.85	1.69	1.55	
-2.0			2.89	2.62	2.62	2.89	2.54	2.26	2.04	1.85	1.70		
-3.0		3.39	2.98	2.86	3.39	2.93	2.57	2.30	2.07	1.81			
-4.0			3.75	3.57	3.25	2.90	2.57	2.27					

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar).
	All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm
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25 Benson Rd, Nuffield Industrial Estate
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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

3h			RAIL		50-150mm CANT @ 45% of tipping									
			SECTOR		160° - 180°									
			OSC. AXLE		FLOAT (Lift & Carry)									
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	
8.0					2.88a	2.95	2.53a							
7.0					2.85	2.84	2.84	2.79	2.43					
6.0					2.98	3.03	2.97	2.80	2.46	2.21				
5.0			4.54	4.09	3.74	3.43	3.12	2.76	2.46	2.20	1.99			
4.0	4.63	4.05	3.66	4.48	3.88	3.40	3.01	2.68	2.41	2.17	1.96	1.78		
3.0			3.67	3.82	3.58	3.21	2.87	2.58	2.33	2.11	1.92	1.75		
2.0				3.19	3.18	3.03	2.74	2.48	2.25	2.05	1.87	1.71		
1.0				2.78	2.85	2.83	2.64	2.40	2.18	1.99	1.83	1.68		
0.0				2.64	2.65	2.67	2.59	2.34	2.13	1.95	1.79	1.65		
-1.0				2.61	2.54	2.62	2.57	2.32	2.11	1.93	1.77	1.64		
-2.0			2.89	2.65	2.65	2.89	2.58	2.32	2.11	1.93	1.78			
-3.0		3.33	2.97	2.86	3.33	2.93	2.61	2.35	2.14	1.89				
-4.0			3.65	3.49	3.21	2.90	2.60	2.32						

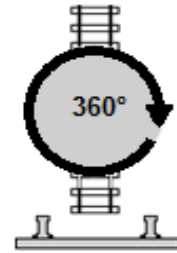
3h			RAIL		50-150mm CANT @ 60% of tipping									
			SECTOR		160° - 180°									
			OSC. AXLE		LOCKED (Static lift only)									
	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.0	6.5	7.0	7.5	8.0	
8.00					2.88a	3.13a	2.53a							
7.00					3.55	3.54	3.53	3.41	2.69a					
6.00					3.73	3.81	3.71	3.49	3.03	2.67				
5.00			6.07	5.17k	4.25k	4.37	3.92	3.43	3.04	2.69	2.41			
4.00	6.21	5.24	4.71	5.98	5.06	4.33	3.79	3.34	2.97	2.66	2.38	2.15		
3.00			4.76	5.00	4.65	4.11	3.62	3.22	2.88	2.59	2.33	2.11		
2.00				4.10	4.09	3.89	3.46	3.09	2.78	2.51	2.28	2.07		
1.00				3.54	3.64	3.61	3.34	2.99	2.70	2.44	2.22	2.03		
0.00				3.35	3.35	3.38	3.28	2.93	2.64	2.39	2.18	2.00		
-1.00				3.31	3.21	3.32	3.26	2.90	2.61	2.37	2.16	1.98		
-2.00			3.72	3.37	3.38	3.72	3.26	2.90	2.61	2.37	2.17			
-3.00		4.37	3.84	3.68	4.37	3.76	3.30	2.93	2.64	2.31				
-4.0			4.36b	4.30	4.00	3.60	3.20	2.79						

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 and 'a' arm are limited by hydraulic capacity (87% of 355 bar).
 All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm



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MACHINE TYPE	Komatsu PW160-7
SERIAL No	H55920
FLEET ASSET NUMBER	99709 910045-2
EQUIPMENT	5m15+2m10
LIFT MODE	Tandem Lift
DATE	29/06/2015



This machine is equipped with a Prolec PME RCI. This system is designed to comply with RAILWAY SAFETY STANDARD RIS-1530 ISSUE 5

4		RAIL		150-177mm CANT @ 45% of tipping										
		SECTOR		360°										
		OSC. AXLE		FLOAT (Lift & Carry)										
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
8.0						0.90	0.88	0.89						
7.0						0.85	0.84	0.91	0.81	0.63				
6.0						0.89	0.91	0.89	0.82	0.65	0.52			
5.0			1.49	1.31	1.18	1.06	0.94	0.77	0.64	0.51	0.41			
4.0	1.52	1.30	1.15	1.46	1.21	1.01	0.84	0.70	0.58	0.48	0.39	0.30		
3.0			1.02	1.08	0.96	0.83	0.71	0.60	0.51	0.42	0.35	0.28		
2.0				0.72	0.71	0.65	0.57	0.50	0.43	0.36	0.30	0.24		
1.0				0.50	0.53	0.51	0.46	0.41	0.35	0.30	0.25	0.20		
0.0				0.41	0.43	0.43	0.39	0.34	0.30	0.25	0.21	0.17		
-1.0				0.38	0.37	0.39	0.37	0.31	0.27	0.23	0.19	0.16		
-2.0			0.45	0.39	0.39	0.45	0.37	0.31	0.27	0.23	0.20			
-3.0		0.59	0.49	0.45	0.60	0.49	0.41	0.35	0.31	0.23				
-4.0			0.70	0.66	0.59	0.51	0.43	0.36						

4		RAIL		150-177mm CANT @ 45% of tipping										
		SECTOR		360°										
		OSC. AXLE		LOCKED (Static lift only)										
		2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.0	6.5	7.0	7.5	8.0
8.00						1.31	1.28	1.30						
7.00						1.24	1.23	1.32	1.20	0.98				
6.00						1.30	1.32	1.29	1.21	1.00	0.85			
5.00			2.05	1.83	1.66	1.51	1.36	1.16	0.99	0.84	0.71			
4.00	2.09	1.81	1.63	2.01	1.71	1.46	1.25	1.08	0.93	0.80	0.69	0.58		
3.00			1.52	1.59	1.44	1.27	1.11	0.97	0.85	0.74	0.64	0.55		
2.00				1.18	1.16	1.07	0.97	0.86	0.76	0.67	0.59	0.51		
1.00				0.91	0.96	0.93	0.85	0.77	0.69	0.61	0.54	0.47		
0.00				0.81	0.83	0.83	0.79	0.70	0.63	0.56	0.50	0.44		
-1.00				0.78	0.76	0.79	0.77	0.68	0.60	0.53	0.48	0.43		
-2.00			0.89	0.79	0.79	0.89	0.77	0.67	0.60	0.53	0.48			
-3.00		1.08	0.93	0.88	1.09	0.93	0.80	0.71	0.64	0.53				
-4.0			1.22	1.16	1.06	0.94	0.83	0.72						

NOTES	<p>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.</p> <p>Loads marked 'b' boom and 'a' arm are limited by hydraulic capacity (87% of 355 bar).</p> <p>All rail duties listed are valid for use on up to a 1:29 gradient, and with a maximum track twist of 27mm</p>
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