

September 27, 2012

Product Bulletin # CATWALK 021

Lift-Lug Upgrade

The PC3000 operations manual does not describe limitations on the lift angle and type of attachment to be used during certain types of ramp lifting operations. The PC3000 ramp-lift bar is not designed to meet certain factor of safety (FoS) requirements with the installed lift bar, depending on the ramp size, angle of lift, and whether the lift attachment is a point load (such as a shackle) or a distributed load (such as a fabric sling).

Recommendation

To increase the FoS, replace the installed lift bar with the lug kit (AY50931) for all ramp types and angles of lift. Contact RigLine 24/7™ Support to order the upgrade kit.

Refer to Table 1 to determine the FoS with and without the lug kit installed.

Table 1: Factor of Safety (FoS)

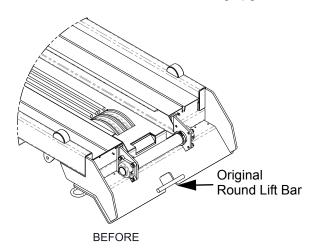
Ramp Size	Ramp P/N	Ramp Weight	45° Lift (From Rig Floor)			Vertical Lift (From Crane)		
			FoS (Current W Dist. Load)	FoS (Current W Point Load)	FoS * (Lug Kit)	FoS (Current W Dist. Load)	FoS (Current W Point Load)	FoS * (Lug Kit)
15FT-8IN W/O STAIRS	111200040	10200 lb	3.3	1.6	18.1	4.8	2.4	26.4
18FT W/O STAIRS	111200036	10900 lb	3.1	1.6	17.2	4.5	2.3	24.9
19FT W/O STAIRS	111200034	11200 lb	3.1	1.5	17.0	4.4	2.2	24.5
19FT-6IN W/O STAIRS	111200041	11300 lb	3.0	1.5	16.8	4.4	2.2	24.2
20FT W/O STAIRS	111200026	11400 lb	3.0	1.5	16.7	4.3	2.2	24.0
20FT-1IN W/O STAIRS, 55 DEG	111200039	10900 lb	3.2	1.6	17.6	4.6	2.3	25.3
21FT-6IN W/O STAIRS	111200004	11800 lb	2.9	1.5	16.1	4.2	2.1	23.2
22FT W/O STAIRS	111200007	11900 lb	2.9	1.5	16.1	4.2	2.1	23.0
22FT W/ STAIRS	111200016	14100 lb	2.6	1.3	14.3	3.3	1.7	18.2
22-26FT W/ STAIRS	111200038	14900 lb	2.4	1.2	13.3	3.1	1.5	17.1
23FT-6IN W/O STAIRS	111200033	12300 lb	2.8	1.4	15.5	4.0	2.0	22.2
25FT W/O STAIRS	111200008	12800 lb	2.7	1.3	14.8	3.9	1.9	21.3
25FT W/ STAIRS	111200009	15200 lb	2.4	1.2	13.0	3.0	1.5	16.7
26FT-6IN W/O STAIRS	111200019	13200 lb	2.6	1.3	14.4	3.7	1.9	20.5
28FT W/O STAIRS	111200037	13800 lb	2.5	1.2	13.7	3.5	1.8	19.5
30FT W/O STAIRS	111200010	14200 lb	2.4	1.2	13.3	3.4	1.7	18.9
30FT W/ STAIRS	111200011	17000 lb	2.0	1.0	11.2	2.7	1.3	14.7
30FT W/ STAIRS SPEC	111200027	17300 lb	2.0	1.0	11.0	2.6	1.3	14.4
33FT W/O STAIRS	111200013	15500 lb	2.1	1.1	11.8	3.1	1.5	16.8
35FT W/O STAIRS, 50 DEG	111200006	15500 lb	2.1	1.1	11.8	3.1	1.5	16.8
	* Note: FoS for ramp only. Specified shackle rating exceeds lifting forces for all setups.							



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Overview

Figure 1 illustrates the PC3000 before and after installation of the lift-lug upgrade.



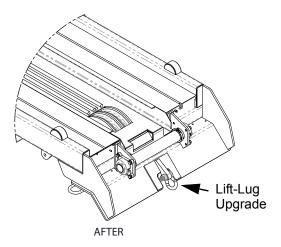


Figure 1: Overview of Upgrade

The upgrade kit part number is AY50931 and consists of the following components:

Table 2: Lift-Lug Upgrade Kit

Item	Canrig P/N	Description	Qty
1	141103355	PLATE, LUG REINFORCEMENT	1
2	141103354	LUG, PLATE, RAMP LIFT	1
3	141103356	GUSSET PLATE, RAMP LUG	2
4	M14011	SHACKLE, 1-1/8, ANCHOR SCREW PIN, 9-1/2T	1



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Procedure

Step 1

Remove the existing round bar.

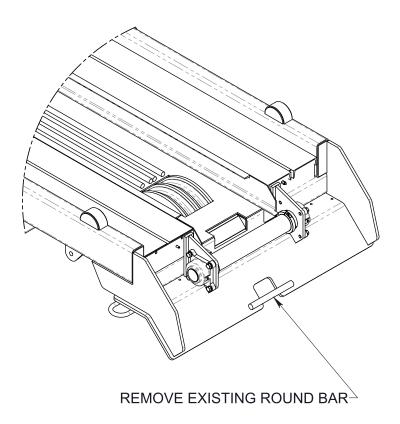


Figure 2: Existing Round Bar



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Step 2

Weld the lug-mount plate as shown in the following figures and perform a magnetic particle inspection (MPI) of the welds.

Refer to Table 2 for item number descriptions.

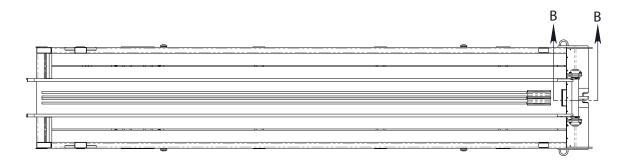
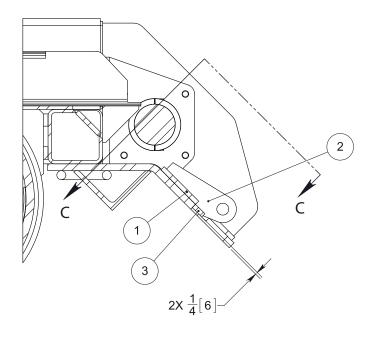


Figure 3: Lug-Mount Plate Location



SCALE 1:6

Figure 4: Lug Location Section B-B



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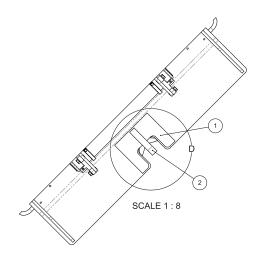


Figure 5: Top View

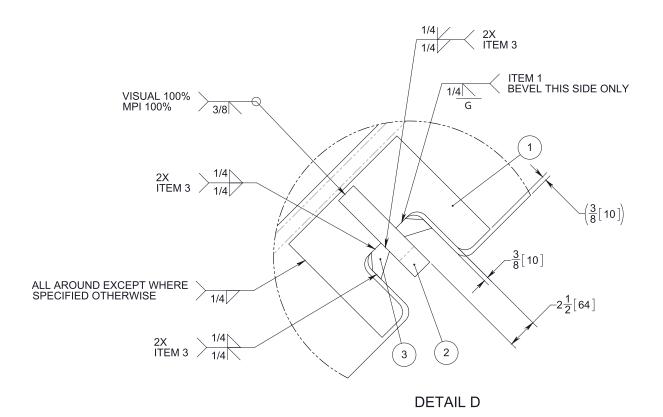


Figure 6: Lug Location Detail D



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Step 3

Attach the shackle (M14011).

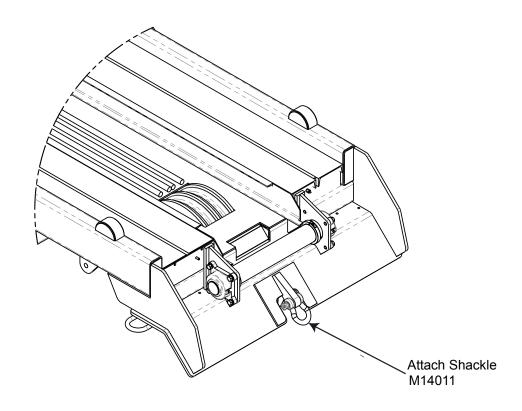


Figure 7: The Shackle

