

Single Column Bulk Bag Lift

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PLM/1000/6164/B

Single Column Bulk Bag Lift Description

This screw driven bulk bag lift was designed to raise and lower a 1000 Kgs Bulk Bag from floor level to a maximum height of 6164mm. In addition to lifting, once the bulk bag lift was at the full up position, the Bulk Bag was rotated through 90 degrees to align with a Blender infed hopper. The bulk bag lift is constructed from Grade 304 stainless steel and is fully TIG welded throughout. The bulk bag lift cradle was a set of forks that a bag docking device (supplied by others) was loaded onto. Once the bag was loaded onto the bag docking device, the lift could rise to its full up position under 'dead man's handle' control. At the full up position the operator controlled the rotation of the lift and bag via 'dead man's handle' control. Once rotated, the bag was lowered into the blender inlet charging hopper. The bulk bag lift was designed to bolted to the floor and fixed to the building structure at the top. Lifting with the bulk bag lift was accomplished via a screw and a frictionless ball bearing lifting nut and the total lift and traverse time was under 60 seconds. Both the Main Control Panel and the Push Button Station were Stainless Steel enclosures with an IP65 Ingress Protection Rating. All lubricants or greases used on the machine were FDA approved.



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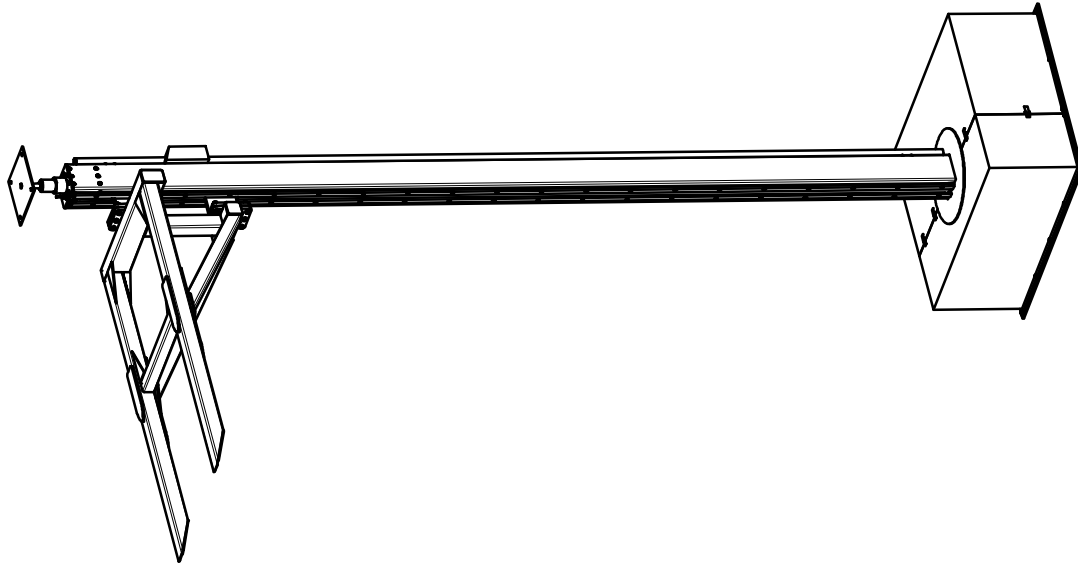
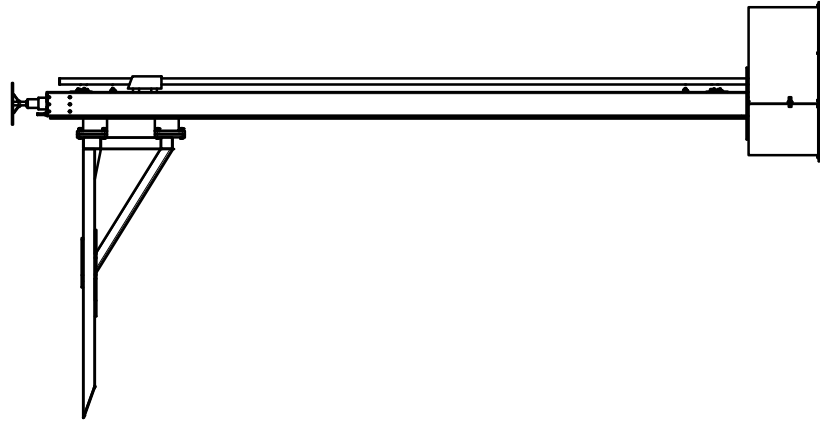
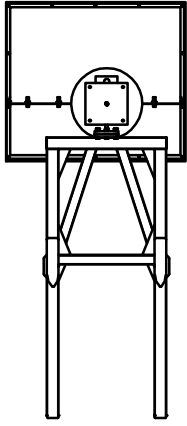


Bulk Bag Lift Specification

DESCRIPTION	SINGLE COLUMN BULK BAG LIFT
MODEL NUMBER	PLM/1000/6164/B
CAPACITY	1000 Kgs
LIFT HEIGHT	6164mm
OVERALL HEIGHT	6758mm
ROTATION ANGLE	90 DEGREES
CONTAINER DESCRIPTION	BULK BAG 1200mm x 1200mm x 1200mm
BASE ARRANGEMENT	BOLTED TO THE FLOOR
CONTROL CIRCUIT	24Vac (STANDARD)
ELECTRICAL RATING	IP65
ELECTRICAL CONTROL	DEAD MAN'S HANDLE PRINCIPLE
LIMIT SWITCHES	PROXIMITY SENSORS
MOTOR DETAIL	3 PHASE, 50 CYCLE, 415V
MOTOR BRAKE	415V SEPARATELY EXCITED
LIFT SCREW	50mm DIAMETER, 20mm PITCH
SCREW SPEED	300 R.P.M.
LIFT SPEED	+ 6.0 METERS/MINUTE

Bulk Bag Lift Application Story

This bulk bag lift was required to raise and lower a Bulk Bag from floor level to discharge into a Blender at a height of 6164mm. The Bulk Bag was loaded onto the lifting forks and raised to the appropriate height before being rotated through 90 degrees over the top of blender. The bulk bag lift was installed into a food/pharmaceutical environment so a hygienic design was essential. The main control panel was mounted remotely so all cabling was passed through a 50mm stainless steel conduit.



REMOVE ALL BURRS AND SHARP EDGES
 FINISH ALL SURFACES
 ALL DIMENSIONS IN MILLIMETERS
 UNLESS OTHERWISE SPECIFIED

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BASE HANDLING PRODUCTS LIMITED
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 BRYNMAWR, GWENT, NP23 4YF

NUMBER
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DATE
 2008/08/13

DRAWING TITLE
 BAG HOIST ASSEMBLY GA

DRAWING NUMBER
 BP3086-61

DATE
 2006/07/19

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