

Heavy Duty Lift

Heavy Duty Lift
PLM/1500/5060/B/G

Heavy Duty Lift Description

This heavy duty lift is a four pillar pallet lift with a Safe Working Load of 3000 Kgs and a lift height of 5060mm. The heavy duty lift was designed to lift and lower a fork lift truck from a ground floor to a concrete mezzanine floor. It was also used to lower empty palletainers from the packing hall for disposal. The heavy duty lift was constructed from mild steel with a painted finish and was bolted to the floor and the concrete mezzanine floor that it was feeding. Lifting with heavy duty lift is accomplished via four chains driven by a pair of motor gearboxes mounted at the top of the main columns with a crossover shaft to the other columns.



Four Pillar Heavy Duty Lift (Right Hand Machine)

Call now on **01495 312 172**

webenquiry@basehandling.co.uk

Base Handling Products Limited, Unit 20, Barleyfield Industrial Estate
Brynmawr, Gwent, NP23 4YF.



Safety Guard to PD 5304:2005 Safety of Machinery

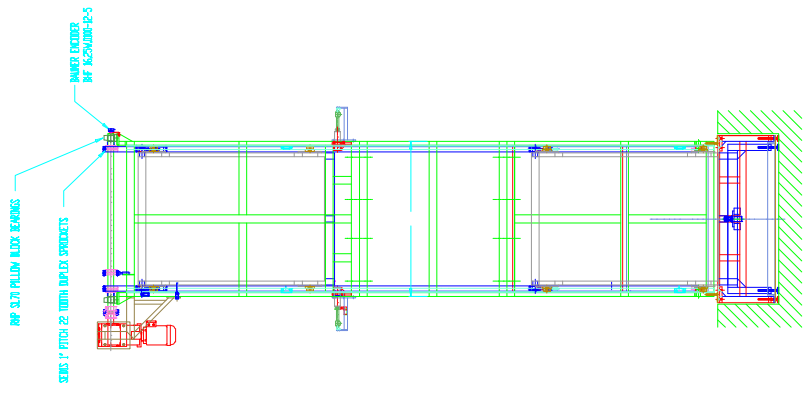
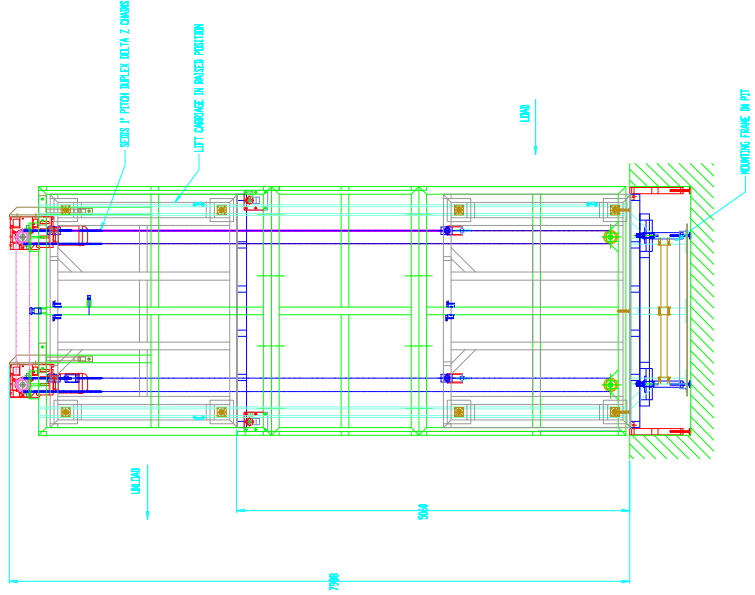
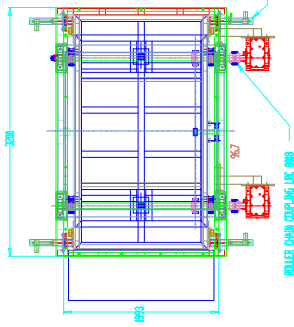
This heavy duty lift was mounted into an existing lift shaft and only the loading and unloading apertures required guarding to meet the requirements of PD 5304:2005 Safety of Machinery. At the ground floor level, there was a powered roller shutter door that was electrically interlocked to prevent the heavy duty lift being operated with a door open and in addition, the door was mechanically locked closed whilst the machine is running. At the upper floor level, there was a powered sliding fridge panelling door that was electrically interlocked to prevent the heavy duty lift being operated with a door open and in addition, the door was mechanically locked closed whilst the machine is running. Each door may only be opened when the lifting carriage is at the appropriate level.

Heavy Duty Lift Specification

DESCRIPTION	FOUR PILLAR HEAVY DUTY LIFT
MODEL No.	PLM/3000/5060/B/G
CAPACITY	3000Kgs
LIFT HEIGHT	5060mm
OVERALL HEIGHT	8000mm
MACHINE HANDING	LEFT OR RIGHT HAND AVAILABLE
PLATFORM SIZE	3000 x 1500mm
CONTAINER DESCRIPTION	CARDBOARD PALLETAINERS 1040 x 1040mm
BASE ARRANGEMENT	BOLTED TO THE FLOOR
CONTROL CIRCUIT	24Vac (STANDARD)
ELECTRICAL RATING	IP65
LIMIT SWITCHES	ADJUSTABLE ROD
MOTOR DETAIL	2 x 7.5kW, 3 PHASE, 50 CYCLE, 415V
MOTOR BRAKE	415V SEPARATELY EXCITED
GEARBOX DETAIL	FLENDER
LIFT CHAIN	1" DUPLEX SEDIS DELTA 'Z'
TENSION CHAIN	1" SIMPLEX SEDIS DELTA 'Z'
LIFT SPEED	6.4 METERS/MINUTE

Heavy Duty Lift Application Story

This heavy duty lift was required to lift a Fork Lift Truck and/or Cardboard Palletainers of frozen vegetables up to a mezzanine floor packing hall or to bring empty palletainers back down. The fork truck or palletainers were driven onto the lifting carriage at the ground floor. The heavy duty lift was then sent to the full up position and where the load could be removed. This heavy duty lift was a Goods Only Lift and the fork truck driver was therefore not permitted to travel with the fork truck. This heavy duty lift had a 'Z' loading configuration so that the machine was loaded at the front and unloaded at the back of the machine at the upper level. This heavy duty lift was mounted in an existing lift shaft which already had a pit.



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BASE HANDLING PRODUCTS LIMITED
 UNIT 20 BARLEYFIELD INDUSTRIAL ESTATE,
 BRYNMAWR,
 GWENT, NP23 4YF
 TEL: 01495 312172 FAX: 01495 332089 EMAIL: info@baseproducts.co.uk

REVISION NUMBER
 CUSTOMER

DRAWING TITLE

FOUR PILLAR PLATFORM LIFT BOLTED GUARDED

REMOVE ALL BURRS AND SHARP EDGES
 TOLERANCES : UNLESS OTHERWISE STATED
 FABRICATIONS : +/- 2mm
 MACHINING : +/- 0.2mm
 SHEET METAL WORK : +/- 1.0mm AND +/- 1.0 DEG.

DRAWN MAGDOR
 CHECKED
 DATE 23-03-07
 DRAWING NUMBER

BP3206