BASE

Call now on **01495 292 415** ☎

Units C & D Roseheyworth Business Park, Abertillery, Gwent. NP13 1SX 📍

ATEX PALLET LIFT

ATEX PALLET LIFT
PLM/1000/4170/B/G

ATEX PALLET LIFT DESCRIPTION

This ATEX pallet lift is a double pillar machine with a Safe Working Load of 1000 Kgs and a lift height of 4170mm. It was designed for use in an ATEX environment and the lifting platform was big enough to allow a standard pallet (1200 x 1000mm) to be loaded using a hand pallet truck. At the upper level, the pallet was unloaded by hand by removing each individual sack. The ATEX pallet lift is constructed from Grade 304 stainless steel and would be bolted to the floor. Lifting with this ATEX pallet lift is accomplished via chains driven by a motor gearbox mounted at the top of the one column with a crossover shaft to the other column.

Double Pillar ATEX Pallet Lift for Standard Pallets

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SAFETY GUARD TO PD 5304:2005 SAFETY OF MACHINERY

The safety guard is constructed from 40 x 40 x 3mm stainless steel box section and 3mm wire, 40mm aperture stainless steel weld mesh and 2mm stainless steel sheet to meet the requirements of PD5304:2005 Safety of Machinery. It would enclose the ATEX pallet lift to a height of 4170mm with a hinged door at the ground floor level through which the pallet can be loaded. The guard door is electrically interlocked to prevent the ATEX pallet lift being operated with a door open and in addition, the door is mechanically locked closed whilst the ATEX pallet lift is running. The guard door may only be opened when the lifting carriage is at the appropriate level.
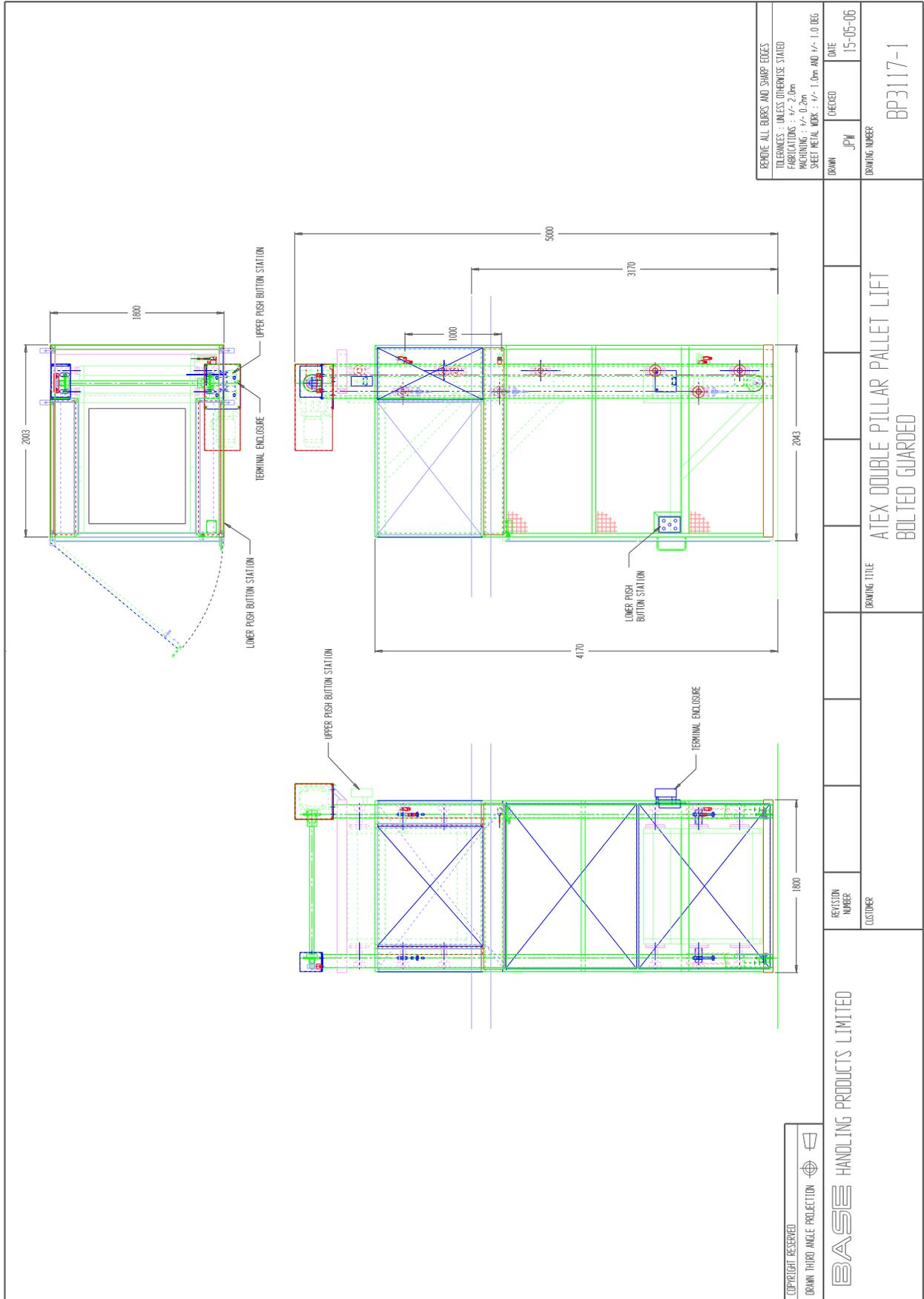
ATEX PALLET LIFT SPECIFICATION

DESCRIPTION	DOUBLE PILLAR ATEX PALLET LIFT
MODEL No.	PLM/1000/4170/B/G
CAPACITY	1000Kgs
LIFT HEIGHT	4170mm
OVERALL HEIGHT	5000mm
MACHINE HANDING	LEFT OR RIGHT HAND AVAILABLE
PLATFORM SIZE	1350 x 1100mm
CONTAINER DESCRIPTION	STANDARD PALLET 1200 x 1000mm
BASE ARRANGEMENT	BOLTED TO THE FLOOR
CONTROL CIRCUIT	24Vac (STANDARD)
ELECTRICAL RATING	IP65
LIMIT SWITCHES	ADJUSTABLE ROD
MOTOR DETAIL	2.2kW, 3 PHASE, 50 CYCLE, 415V
MOTOR BRAKE	415V SEPARATELY EXCITED
GEARBOX DETAIL	TO BE CONFIRMED
LIFT CHAIN	1" SIMPLEX SEDIS DELTA GREEN
TENSION CHAIN	3/4" SIMPLEX SEDIS DELTA GREEN
LIFT SPEED	6.4 METERS/MINUTE

ATEX PALLET LIFT APPLICATION STORY

Unloading level of 4170mm onto roller track mounted on a mezzanine floor at a height of 3170mm. The full pallet was loaded through the guard door at the ground level and the whole pallet was raised until the top level of sacks was at the required height. Once the first layer had been removed, the ATEX pallet lift could be inched up under 'dead man's handle' control to remove subsequent layers until the whole pallet was unloaded. This ATEX pallet lift can be mounted on an existing floor and therefore does not require a pit to be created with the requisite drainage issues.

The ATEX pallet lift was installed in an ATEX environment and the main control panel was mounted remotely in an operator control room. In terms of the electrical installation, the customer supplied and fitted an Intrinsically Safe Interface panel in the plant room complete with all interconnecting wiring. This included the wiring to the Main Control Panel and the IS Interface panel, to both Remote push button stations, to both Remote Emergency Stop stations to the motor isolator and motor. We are however, qualified and prepared to handle all plant electrical and mechanical installations in all ATEX environments.

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UPPER PUSH BUTTON STATION

TERMINAL ENCLOSURE

LOWER PUSH BUTTON STATION

1800

2003

5000

3170

1000

2043

4170

LOWER PUSH BUTTON STATION

UPPER PUSH BUTTON STATION

TERMINAL ENCLOSURE

1800

REMOVE ALL BURRS AND SHARP EDGES
TOLERANCES : UNLESS OTHERWISE STATED
FABRICATIONS : +/- 2.0mm
MACHINING : +/- 0.2mm
SHEET METAL WORK : +/- 1.0mm AND +/- 1.0 DEG

DRAWN: JPW
CHECKED:
DATE: 15-05-06

DRAWING NUMBER: BP3117-1

DRAWING TITLE: ATEX DOUBLE PILLAR PALLET LIFT BOLTED GUARDED

REVISION NUMBER:

CUSTOMER:

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DRAWN THIRD ANGLE PROJECTION

BASE HANDLING PRODUCTS LIMITED