Pinning Station

6x

Pinning Station Information Board

2x

Employer's Requirements

Technical Specifications

DCT Gdansk S.A.
Deepwater Container Terminal Gdansk

Kontenerowa 7
80-601, Gdansk
Poland

TABLE OF CONTENTS

I. OBLIGATORY SPECIFICATION

1. INTRODUCTION

The specification submits description of the main features of pinning station and pinning station information board. The offered equipment must fulfil the requirements.
Every equipment which is offered must comply with the required expectations in a clear way or must be doubtlessly equivalent to the specified. If the same element is specified in few places of this specification all demands are valid.

If any equipment or features are indispensable for proper operation of pinning station or obtaining valid technical certificates and insurance policies and are not mentioned in this specification it is deemed this equipment or elements must be supplied with the pinning station.

2. DESIGN BASIS

2.1. OPERATION

Pinning Station is a dedicated working area providing a controlled environment to carry out the task, as far as practically possible removing employees or contractors exposed to high risk activities from under the quay cranes. It improves the level of safety in the location to install/remove twist locks.

Pinning Station Information Board is a dedicated board on which information about STS (ship to shore crane) is shown.

Pinning Station Information Board main features:

- width and high of the board to accommodate up to four STS cranes numbers
- STS number will be always with two digits:
  - First digits (0 2 3 4)
  - Second digits (1 2 3 4 5 6 7 8 9)
- transported and handled (without people), using a forklift through the tunnels installed for that purpose,
- dedicated space below information board to put concrete barrier to minimize potential risk o board falling down

2.2 GENERAL LAYOUT

Minimum Specifications for structure:
Pinning Station will be constructed of suitable strength steel.

- Main structures and under floor supports 75x 75 x 2 mm structural hollow section
- Roof of minimum 0.6mm galvanized steel sheet on flat and/or angled steel frame
- Floor steel checker plate 3mm coated with non-slip material

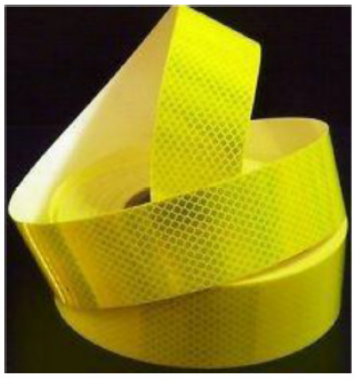
Tool Bins steel sheet 1.6mm pressed with bent over lip for strengthening. (L 900mm W 300mm H 500mm). Internal struts may be required.

- Tool Bin Lids hinged Steel Checker Plate 3mm
- Work Top steel sheet 1.6mm (desk top)
- Work Top support cross member 50 x 25 x 2mm structural hollow section installed with 50mm as height.

Exterior.
The front end of the Pinning Station will have:

- Suitable steel protection to prevent damage by forklift mast during handling.
- Equipped with rubber bumpers. Floor designed to avoid pich of toes when loading;
- Transported and handled (without people), using a forklift through the tunnels installed for that purpose.
- 2x flash lamp installed on the roof

- High intensity reflective tape strips shall be applied to the vertical steel sections.



- Solar panel mounted on the roof to provide recharging of batteries

- DCT Gdańsk logo from both sides of the Pinning Station

Interior.
Steel checker plate floor shall be finished with non-slip coating.
Riffled floor which protect from presence of water (rain, snow) – floor should be constructed in the way that water will have a place to flow out from Pinning Station.

400mm depth work top, mounted on top of the side and front cross members at 1m height from floor.

Checker seat shall be finished with wooden non-slip coating.

DC fluorescent light twin tube, shall be mounted in the roof to provide lighting inside the Pinning Station to minimum 50 lux (4000 k, Natural white)

PVC curtains on 4 sides of Pinning Station to protect from harsh environment condition (rain, snow, wind)

- PVC curtains must be transparent – visibility outside of Pinnign Station is a MUST
- Curtains mounted vertically or horizontally on dedicated guide
- Curtains must be mounted in the way that will be taut and stable

Battery compartment (can be formed with flat bar 50 x 5 vertical) to house minimum 2 batteries on the floor, located under the work top against the front. Battery containment straps must be fitted to prevent battery fall over during handling by fork lift.

- 2 x 20mm holes for washout.
- Rubber liner 5mm

Small electrical control box suitably mounted at the front inner left top corner with:
- Internal (in control box)

- charging controller from solar panel to 2 independent batteries.
- fuses as required
- Auxillary output/s for equipment (e.g. VMT)

- External

- Main “On” switch
- battery selector switch for power supply
- red light warning indicator per battery for low charge
- on/off switch for fluorescent light with green indicator light when “on”

All cabling shall run inside hollow sections (except for battery connection), be in suitable “sleeve” and all holes drilled through hollow section will be 20mm with rubber gland inserts for cables with sleeves to pass through.

Pinning Station – photos

2.3. ENVIRONMENTAL CONDITIONS

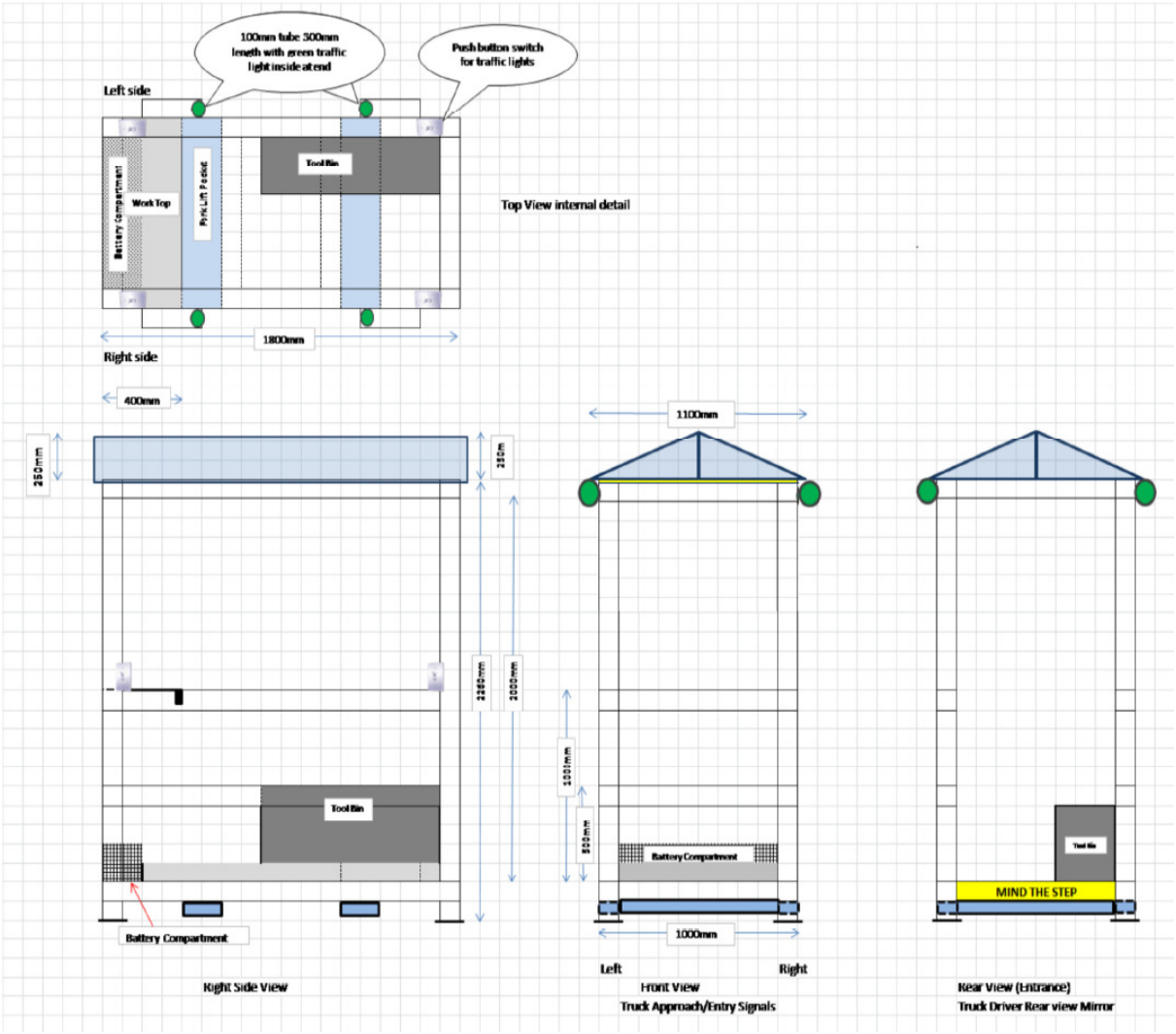
The pinning station must be able to work in the local conditions present in Gdansk on the container terminal DCT Gdansk SA including air humidity, salt content in the air, air pollution, sand flight, must be able to work with typical oils and liquids needed for normal operation available in this place.

Temperature Range	:	-20℃ up to +40℃.
Atmosphere	:	Salty and Dust-laden
Maximum relative humidity	:	Up to 100%

Rainfalls : Occasionally Heavy

3. MAIN TECHNICAL PINNING STATION FRAME DATA

3.1. KEY DIMENSIONS



4. DESIGN STANDARDS

4.1. GENERAL

The pinning station will be designed and built in accordance with European Directives 2009/104/CE

In general, design and construction must comply with all European standards (EN) standards current at the date of contract. For aspects where no EN standard has been issued, appropriate ISO, European or American standards will be used.

5. REQUIREMENTS

5.1. GENERAL REQUIREMENTS

The pinning station and pinning station information board must be assembled on the terminal from already manufactured components or delivered fully assembled. Before the dispatch all the structural elements must be assembled in the factory and check to confirm that the elements fit according to the required tolerances and cage is working properly. A suitable protocol from measurement must be taken – functional test report.

6. PAINTING AND SURFACE PROTECTION

SURFACE PREPARTION
The surface preparation of all raw steel materials shall be carried out in an automatic blasting machine or in specialised manual blasting hall.
The cleaned surface quality should be as per Swedish Standard SA 2.5 minimum with a surface profile. All fabricated box sections must be completely blast-cleaned in order to return the surface quality to SA 2.5, prior to application of the paint system.

PAINTING
The painting system shall consider at least two coats, sand blasted acc. To SA 2.5.
The first layer must be either a two compound fast curing zinc-phosphate epoxy primer or two compound vinyl epoxy primer ab. 80 microns.
The second layer should be two component polyurethane or modified polyurethane of average thickness 40-50 microns
Main Structure Final Top Coat Colour shall be RAL 1003.
Corners black and yellow stripes

DCT Gdańsk logo shall be painted from both sides of Pinning Station.

7. TECHNICAL DOCUMENTATION

The set of following documentation should be delivered:

- Manual instruction for operation
- Maintenance instruction
- Certificates
- Spare parts list
- Main components drawings

If any other documents or certificates are not mentioned in this specification but required by EU regulations it shall be delivered upon request.

Both documentation and equipment must fulfil requirements of EU rules regarding handling equipment with regard to amount and quality.
Drawings and diagrams should be provided in format readable in PDF and general gondola cage assembly drawings in format readable in PDF.

The documentation should be delivered in one **English,** three **Polish** hard copies and two CDs or two USB memory sticks.

II. WARRANTY & SERVICE

Guarantee is valid 24 month from date of commission protocol sign off.

Service:
Supplier warrants authorized service with 5 working days response time.
Supplier provides the ability to express delivery of spare parts (for dispatch within 48 h).