

Bendtech
PARTNERING WITH

BHP



3 SOUTH FLANK MOBILE ACCESS PLATFORM PROGRAM *LEADING THE WAY IN SCAFFOLD REDUCTION*



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MOBILE ACCESS PLATFORM PROGRAM**INDEX**

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OVERVIEW

South Flank is a greenfield mine and brownfield processing hub expansion created adjacent to and within the Mining Area C (MAC) operation. It is designed as a sustaining mine to replace the 80 Mtpa of ore from Yandi, which is ramping down from FY21.

The new facilities include mining, inflow, processing, outflow circuits, and will expand the MAC Hub to ~145Mtpa, making it the largest operating iron ore hub in the world.

Historically in BHP Western Australia Iron Ore (WAIIO), scaffold has been used extensively during major plant shutdowns for provision of temporary access for inspection and maintenance activities. BHP is reducing reliance on scaffold by transitioning to mobile, permanently and purposely configured access and/or maintenance platforms. Benefits of such Access Platforms in comparison to scaffold includes;

REDUCED PROCESS PLANT DOWNTIME

- Access Platforms can be lifted in and out of the building, requiring minimal set up and removal time.

IMPROVED SAFETY

- Risks associated with working at heights and dropped objects is minimised during set up and removal of Access Platforms.

REDUCED LABOUR REQUIREMENTS

- Fewer labour resources required during shutdowns.

The overarching strategy for South Flank is to minimise the use of scaffold wherever practicable. To this end the work included in this scope covers the detailed design, fabrication and delivery of Access Platforms to enable inspection and maintenance activities from 'Primary Crusher' through to 'Train Load Out'.



This booklet catalogues the platforms developed for South Flank through the close collaboration of BHP and Bend-tech. This Program has enjoyed comprehensive engagement from Bend-tech designers through to the BHP Service Technicians.

Specific platform requirements have been collaboratively defined forming the basis of detailed designs provided by Bend-tech. Upon review and approval of these designs by BHP Engineering, Bend-tech progress Platform fabrication and delivery.

PLATFORM DESIGN

Each PLATFORM is backed by BHP approved, Bend-tech compiled Drawings, Design Calculations & Manufacturer Data Records.

BHP Approved Technical Queries provide dispensation from BHP Standards where appropriate.

ORE HANDLING - AREA C STOCKPILE
COS APRON FEEDER ACCESS PLATFORM
CALCULATION REPORT

DESIGN DATA

NUMBER: DESD-867-S-12095/0

DESCRIPTION: ORE HANDLING - AREA C STOCKPILE
COS APRON FEEDER ACCESS PLATFORM
CALCULATION REPORT

OFFICE OF ORIGIN: Metis Design and Engineering

WRITTEN BY: Mordecai Jacobs

CHECKED BY: Charlie Guilloteau

TITLE OF CHECKER: Principal Engineer (WA)

BHP Billiton Iron Ore Pty Ltd
A.B.N. 48 008 700 981
City Square
125 St Georges Terrace
PERTH WA 6000

ENGINEERING DOCUMENT

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MANUFACTURER DATA RECORDS

NUMBER: MDR-867-S-00015/0

DESCRIPTION: ORE HANDLING - AREA C STOCKPILE
COS APRON FEEDER ACCESS PLATFORM
MANUFACTURER DATA RECORDS

OFFICE OF ORIGIN: BENDTECH GROUP PTY LTD

CONTRACT: 4510564913

WRITTEN BY: HUI MEI YAP

CHECKED BY: JAMIE RICHARDS

TITLE OF CHECKER: PRODUCTION MANAGER

STATUS REVIEW BY BHPIO RESPONSIBLE MANAGER/ENGINEER

REVIEWED (Alpha or Numeric): *845*

REVIEWED AS NOTED (Alpha or Numeric):

REVISE AND RESUBMIT (Alpha or Numeric):

REVIEWED BY BHPIO RESPONSIBLE MANAGER (Numeric): *Matt Wightman*

Wightman, Matt
2021 05 20 16:51:33
+0800

Rev.	Date	Description	By	Checked	BHPIO
0	29/4/21	Issued for Client Approval	<i>Hui Mei Yap</i>	<i>Jamie Richards</i>	<i>Matt Wightman</i>

Technical Query

TQ No: TQ001

TQ Raised: 04/11/2020

PO #: 4510112190

Originator: Matt Wightman

Attachments: ST04 Slew Drive Motor Concept drawing; ST04 Slew Drive Motor Concept Brief; Email from Steve Douce;

Part 1: Contractor to complete

Steve Platforms says:
Designed for a UDL of 5KPa plus a coincident vertical point load on any generally not feasible for these mobile aluminium access platforms to comply loading requirements as stipulated within AS1657 (2.5KPa and a 1.5kN point generally constructed to.

for the following wind conditions....etc
ation as to what the acceptable design wind loading is on an operational, not is it 5m/s or 20m/s?

ing

Drive Motor is an Access Platform which is designed for access by a single ended that;
arm be designed for loading stipulated within AS1657, i.e. a UDL of 2.5KPa exception be granted for not meeting the loading requirements stipulated in 9.
ked with WLL.

DO-S-00001 be that all mobile platforms are to be designed for operating, in wind loads up to 5m/s.

TBA

TBA

05/11/2020

W/:

DETAILS

1. FABRICATE AND WELD TO COMPLY WITH AS 1554 AND AS 1555
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4 BHP

IN THE FIELD TRACKING OF PLATFORM LOCATION

A Teletrac Navman Asset Tracking Sensor is to be mounted on each of the PLATFORMS.
This tracker will provide PLATFORM location twice daily to a web based viewing system.

To log into viewing system refer to Quick Reference Guide # 0165544.



Teletrac
Navman

IN THE FIELD REGULAR PLATFORM INSPECTIONS

Every user of a MOBILE PLATFORM shall conduct a thorough PLATFORM inspection prior to use.

Where a defect is found that compromises the safe use of the PLATFORM, an OUT OF SERVICE Tag shall be placed on the PLATFORM and the PLATFORM shall be removed from service until repaired by a competent person.

PLATFORM defects to be reported to RELIABILITY.





GENERAL PURPOSE MOBILE PLATFORMS

 www.bendtechgroup.com.au



GENERAL PURPOSE MOBILE PLATFORMS

600MM HIGH ACCESS PLATFORM

AKA: MIGHTY MOUSE

OVERALL DIMENSIONS (MM):

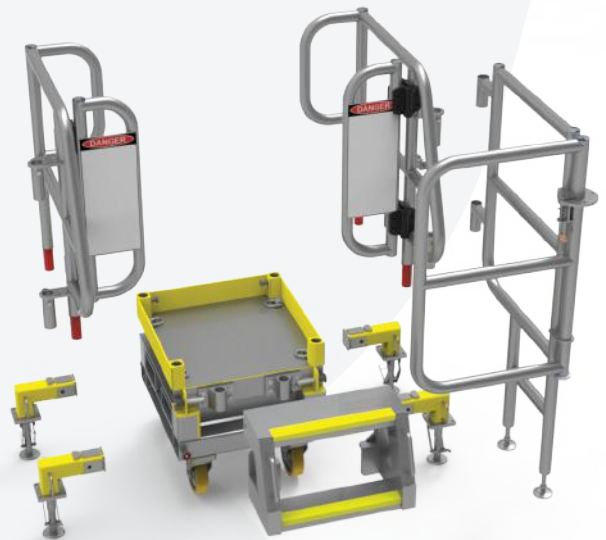
In transit (just base on castors): 700H x 810L x 662W

When erected without handrail extension: 1620H x 1085L x 1050W

When erected with handrail extension: 1620H x 1640L x 1050W

DESCRIPTION:

- WLL: 150kg
- Tare Weight: 261kg
- 4 swivel castors + 4 outriggers
- Forklift pockets + lifting lugs
- Drawing # 864-S-12150
- Asset # OHP3-BG440-AP005



CAUTION:

1. Platform only to be used on level and firm ground.
2. Platform only to be used when Handrail (LH + RH) + Stairs + Outriggers (4 off) installed.
3. Outriggers to be installed and engaged with ground at all times except when platform in transit.
4. Extension Handrail to be used where it will protect against a potential fall of 2m or more.

IDEAL FOR:

Use in congested areas including walkways eg;

1. CV521 HEAD CHUTE WALKWAY removal
2. Access to 'D' & 'E' Chutes in SCREENING BLDS



GENERAL PURPOSE MOBILE PLATFORMS

750MM HIGH ACCESS PLATFORM

AKA: WOMBAT 1

OVERALL DIMENSIONS (MM):

1659H x 1375L x 690W

DESCRIPTION:

- Tare Weight: 461kg
- WLL: 150kg
- 2 swivel castors + 2 fixed castors
- Forklift pockets + lifting lugs
- Drawing # 867-S-12602
- Asset # OHP3-BG420-AP002



CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR:

1. APRON FEEDER (PRIMARY CRUSHER & COS)
2. PRIMARY CRUSHER ROCKBREAKER & HPU



GENERAL PURPOSE MOBILE PLATFORMS

750MM HIGH ACCESS PLATFORM

AKA: WOMBAT 2

OVERALL DIMENSIONS (MM):

1659H x 1346L x 690W

DESCRIPTION:

- Tare Weight: 591kg
- WLL: 150kg
- 4 swivel castors + bolt on handrails
- Forklift pockets + lifting lugs
- Drawing # 867-S-12597
- Asset # OHP3-BG420-AP001



CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR ACCESS TO:

1. Congested areas such as the tight side of the COS APRON FEEDER.



GENERAL PURPOSE MOBILE PLATFORMS

750MM HIGH CANTILEVER ACCESS PLATFORM

AKA: SPRING HARE

OVERALL DIMENSIONS (MM):

1650H x 1363L x 966W



DESCRIPTION:

- Weight: 376kg
- WLL: 150kg
- 2 swivel castors + 2 fixed castors
- 100mm Overhang Platform
- Forklift pockets + lifting lugs
- Drawing # 864-S-12153
- Asset # OHP3-BG460-AP002

CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR:

1. Access for spring change out on BG440 & BG460 VIBRATING SCREENS.



GENERAL PURPOSE MOBILE PLATFORMS

1000MM HIGH WALK THROUGH ACCESS PLATFORM

AKA: ROCKY

OVERALL DIMENSIONS (MM):

1917H x 1443L x 882W



DESCRIPTION:

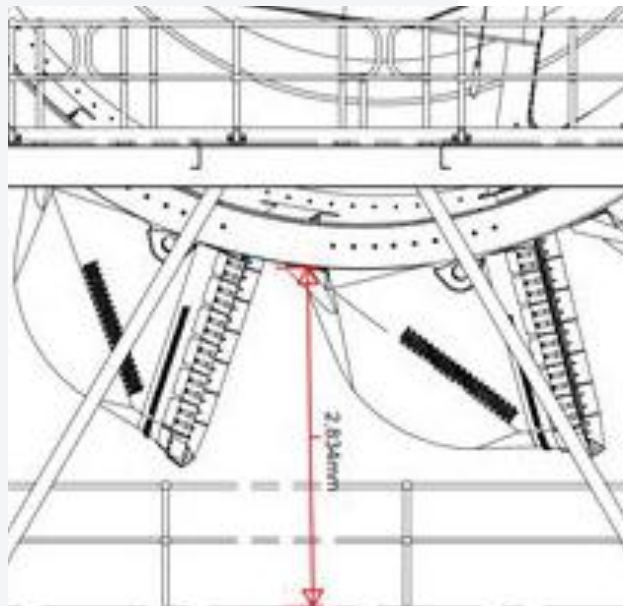
- WLL: 150kg
- Tare Weight: 576kg
- 2 swivel castors, 2 fixed castors
- Forklift pockets + lifting lugs
- Drawing # 2361-S-00018
- Asset #'s;
PC1-RB401-AP001
PC2-RB404-AP001
OHP3-RC03-AP001

CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR ACCESSING:

1. PRIMARY CRUSHER ROCKBREAKER
2. RECLAIMER RC03 BUCKET



GENERAL PURPOSE MOBILE PLATFORMS

1100MM HIGH ACCESS PLATFORM

AKA: SOFT RIDER

OVERALL DIMENSIONS (MM):

2145H x 1641L x 900W



DESCRIPTION:

- Tare Weight: 638kg
- WLL: 150kg
- 4 swivel castors with solid rubber tyres
- Forklift pockets + lifting lugs
- Drawing # 2365-S-00013
- Asset # TS412-CH412-AP007

CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR:

1. Use at TS412 TRANSFER CHUTE



GENERAL PURPOSE MOBILE PLATFORMS

1200MM HIGH CANTILEVER ACCESS PLATFORM

AKA: TASSIE DEVIL

OVERALL DIMENSIONS (MM):

2245H x 1759L x 1260W Approx.



DESCRIPTION:

- Tare Weight: 591kg
- WLL: 150kg
- 4 swivel castors
- Forklift pockets + lifting lugs
- Drawing # 866-S-12267
- Asset #'s:
OHP3-ST04-AP001
PC1-BG401-AP001

CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR ACCESSING:

1. ST04 / ST05 SLEW DRIVE MOTOR
2. PRIMARY CRUSHER VAULT DOOR HYDRAULIC CYLINDERS



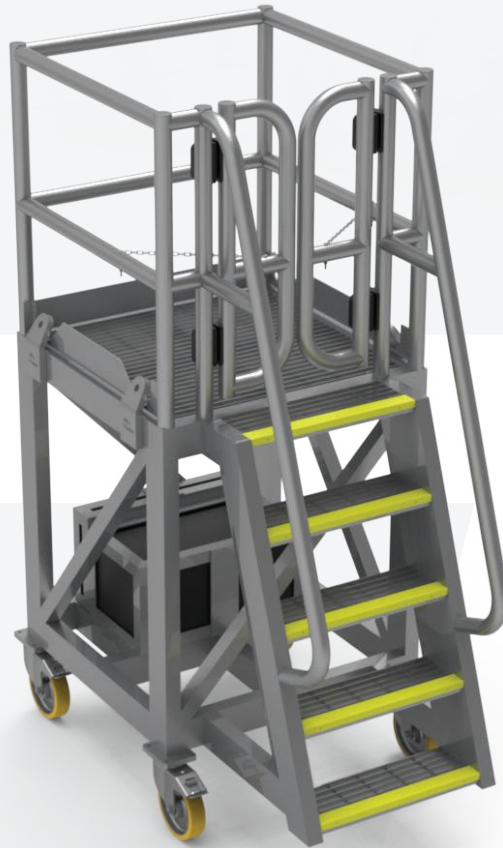
GENERAL PURPOSE MOBILE PLATFORMS

1300MM HIGH ACCESS PLATFORM

AKA: KANGAROO

OVERALL DIMENSIONS (MM):

2203H x 1525L x 960W



DESCRIPTION:

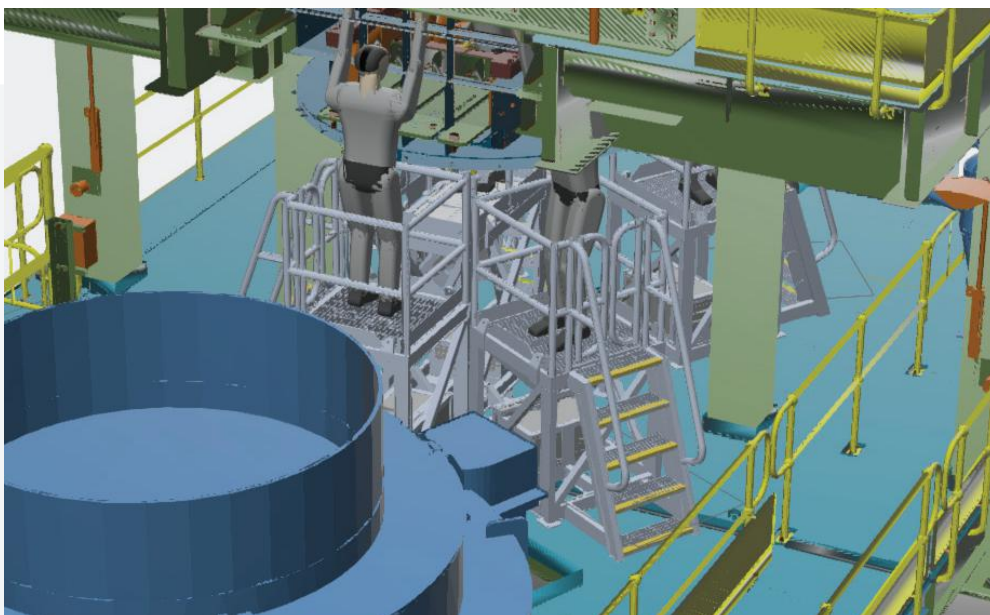
- Tare Weight: 650kg
- WLL: 150kg
- 4 swivel castors
- Fork lift pockets + lifting lugs
- Drawing # 863-S-12075
- Asset # OHP3-CH451C-AP001

CAUTION:

1. Platform only to be used on level and firm ground.
2. Castors to be locked prior to use.

IDEAL FOR:

1. CH451C to access liner external bolting and CRUSHER LEVEL SENSOR.



GENERAL PURPOSE MOBILE PLATFORMS

1600MM HIGH ACCESS PLATFORM

AKA: RHODESIAN RIDGEBACK

OVERALL DIMENSIONS (MM):

Overall dimensions with outriggers folded (mm): 2513H x 2000L x 990W

Overall dimensions with outriggers unfolded (mm): 2513H x 2000L x 2000W

DESCRIPTION:

- WLL: 150kg
- Tare Weight: 460kg
- 4 swivel castors + 4 folding outriggers + fold in handrails
- Forklift pockets + lifting lugs
- Drawing # 863-S-12069
- Asset # OHP3-BG450-AP005

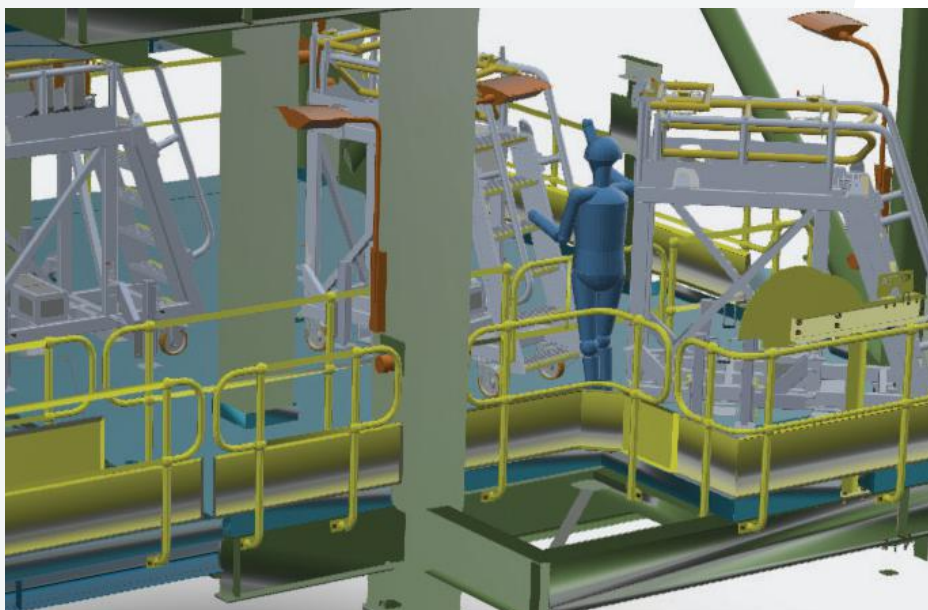


CAUTION:

1. Platform only to be used on level and firm ground.
2. Outriggers to be deployed at all times except when platform in transit.
3. Handrails to be unfolded prior to accessing platform.

IDEAL FOR:

1. Use on CH451C for internal access to BILLETS and lower LINERS.



GENERAL PURPOSE MOBILE PLATFORMS

2450MM HIGH CANTILEVER ACCESS PLATFORM

AKA: GIRAFFE

OVERALL DIMENSIONS (MM):

3654H x 2702L x 1140W



DESCRIPTION:

- Tare Weight: 874kg
- WLL: 150kg
- 4 swivel castors + 4 outriggers
- Forklift pockets + lifting lugs
- Drawing # 865-S-12102
- Asset # OHP3-TS477-AP001

CAUTION:

1. Platform only to be used on level and firm ground.
2. Outriggers to be used at all times except during platform movements

IDEAL FOR:

1. Access to flange bolting and lift points on top of TRANSFER STATION
2. SHUTTLE HEAD CHUTE





SPECIALISED PLANT PLATFORMS

SPECIALISED PLANT PLATFORMS

PRIMARY CRUSHER SHELL BOLTING ACCESS PLATFORM - LOWER LEVEL

AKA: PYGMY PYTHON

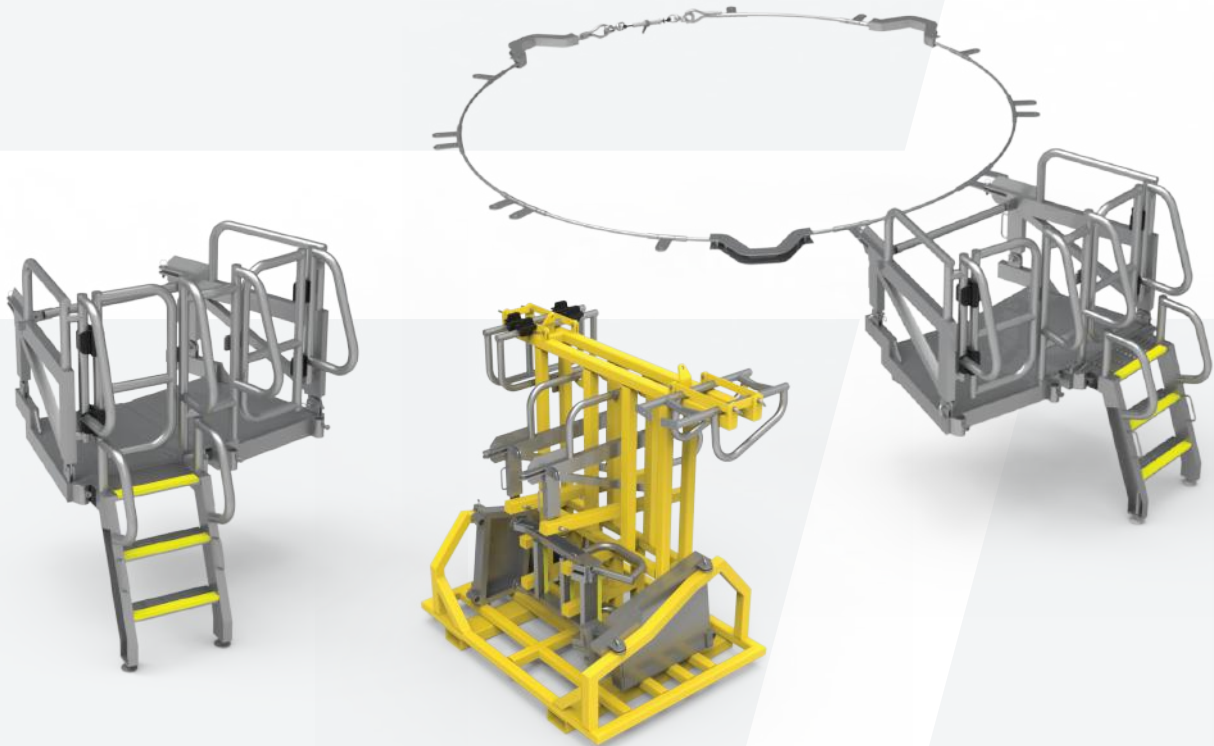
MULTIPLE PIECE PLATFORM SET COMPRISING;

- WLL 150kg platform (2 off) - Tare weight 78kg each
- Wire rope to hold platforms to SHELL

- Storage Rack with forklift pockets & lifting lugs

- Drawing # 2361-S-00023

- Asset # PC2-BG404-AP004

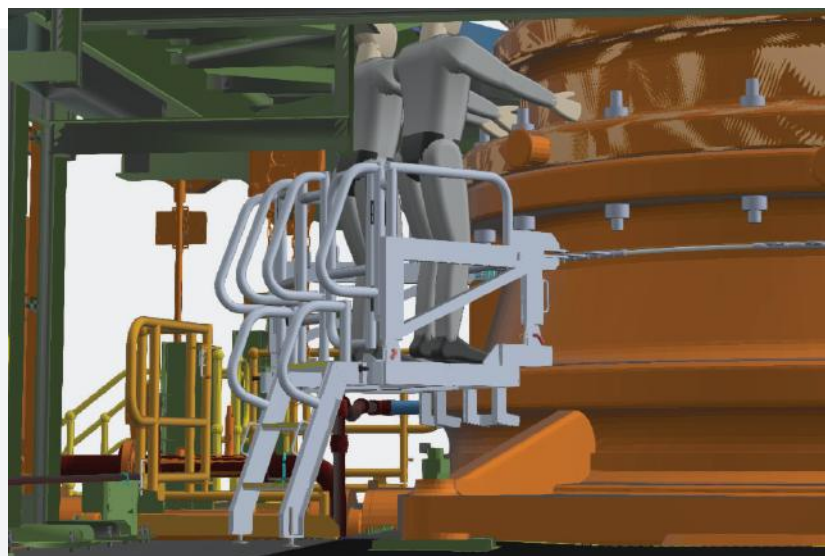
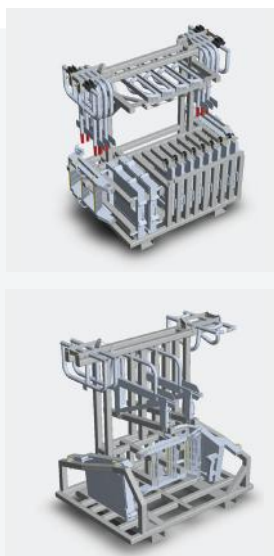


CAUTION:

1. Platform pieces to be hand carried to location
2. Tension wire rope around CRUSHER prior to platform use.
3. Pack platform in RACK after use.

SOLELY FOR:

1. Use to access PRIMARY CRUSHER SHELL BOLTING on lower level.



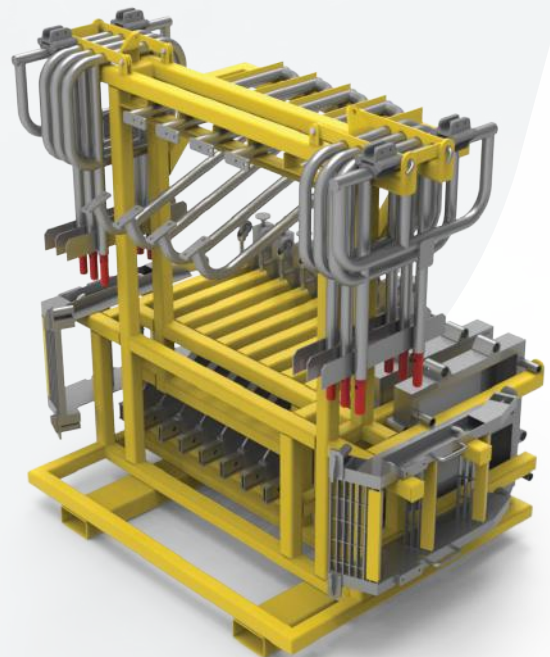
SPECIALISED PLANT PLATFORMS

PRIMARY CRUSHER SHELL BOLTING ACCESS PLATFORM - UPPER LEVEL

AKA: CRAB

MULTIPLE PIECE PLATFORM SET COMPRISING;

- WLL 150kg platform (2 off) - Tare weight 97kg each
- Storage Rack with forklift pockets & lifting lugs
- Drawing # 2361-S-00019
- Asset # PC2-BG404-AP003

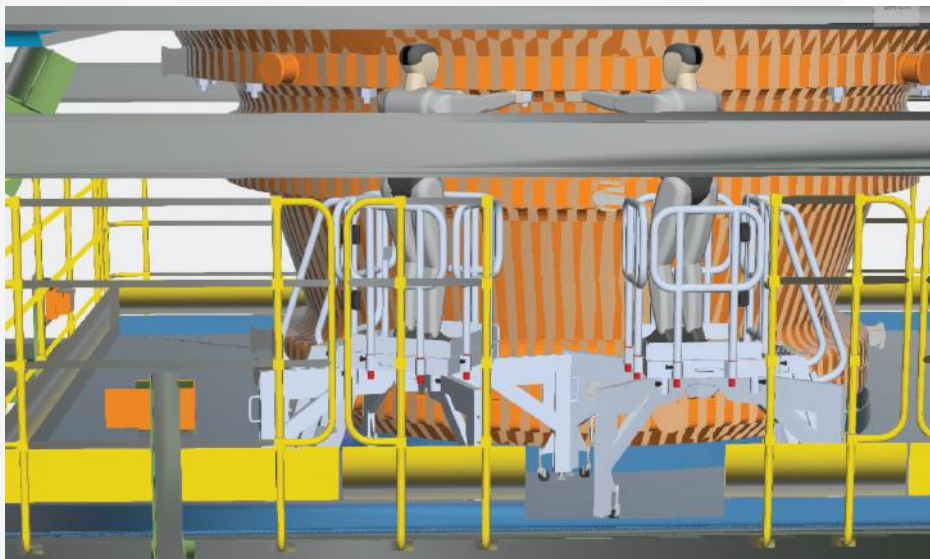


CAUTION:

1. Platform pieces to be hand carried to location.
2. Pack platform pieces on RACK after use.

SOLELY FOR:

1. Use to access PRIMARY CRUSHER SHELL BOLTING on upper level.



SPECIALISED PLANT PLATFORMS

PRIMARY CRUSHER APRON FEEDER ROTABLE DISCHARGE CHUTE ACCESS

AKA: KOALA

DESCRIPTION:

- WLL: 150kg multi-piece platform - Tare weight 75kg
- Drawing # 2361-S-00029
- Asset # PC1-BG403-AP002

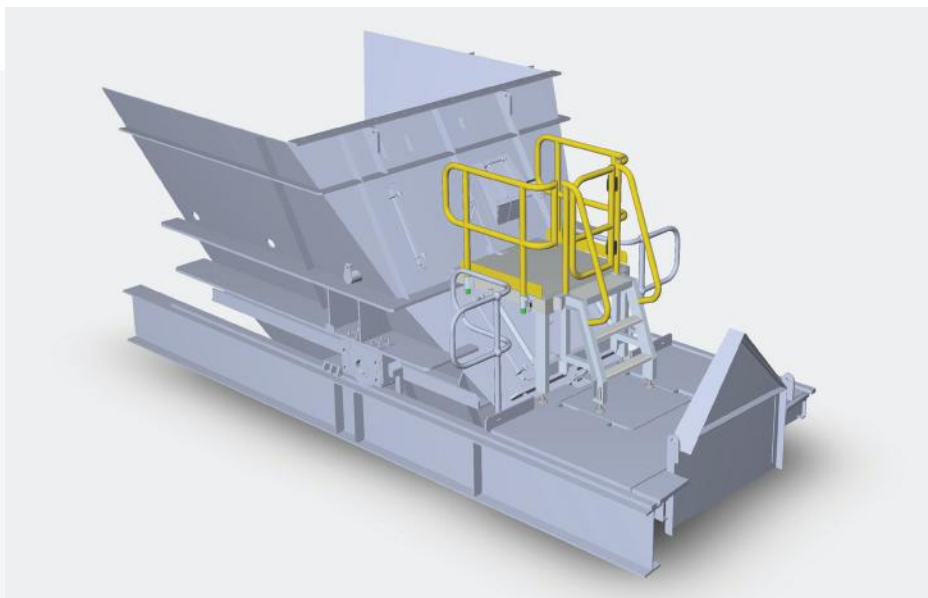


CAUTION:

1. Secure PLATFORM to DISCHARGE CHUTE with two PLATFORM PINS into holes pre-drilled into DISCHARGE CHUTE FLANGE.

SOLELY FOR:

1. Use at PC1 and PC2 Apron Feeder Discharge Chute for accessing flange bolting of rotatable chute.



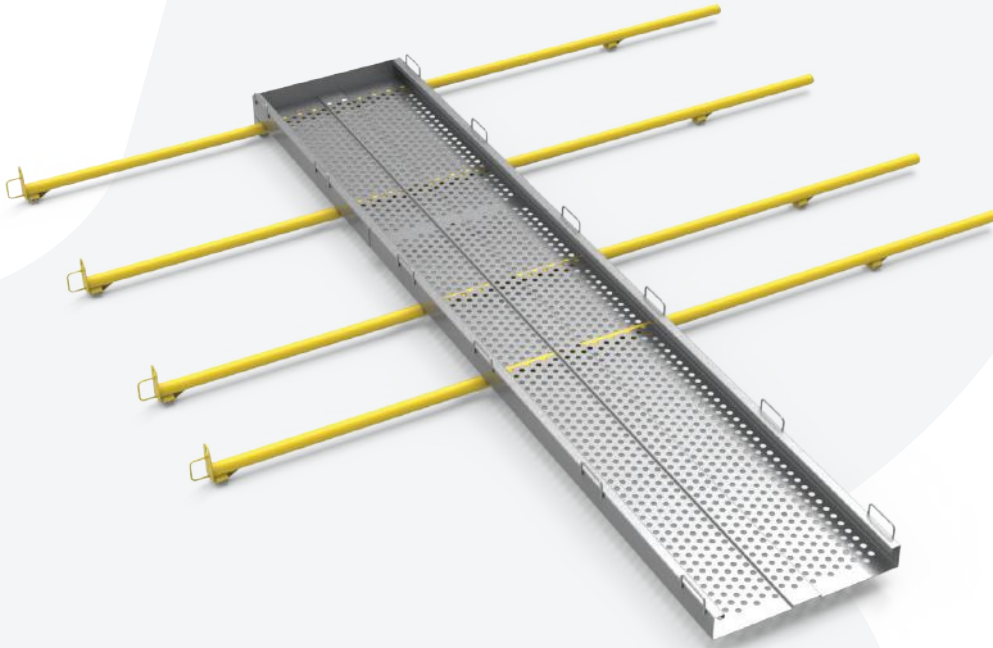
SPECIALISED PLANT PLATFORMS

CH421B CRAWLER RAMP FOR REMOTE 3D SCANNING OF CH421A LINERS

AKA: ROBO RAMP

DESCRIPTION:

- Single 'plank' - Tare weight 21kg
- WLL: 45kg
- Support tubes (4 off) - weighs 12kg each
- Drawing # 867-S-12596
- Asset # OHP3-BG420-AP003

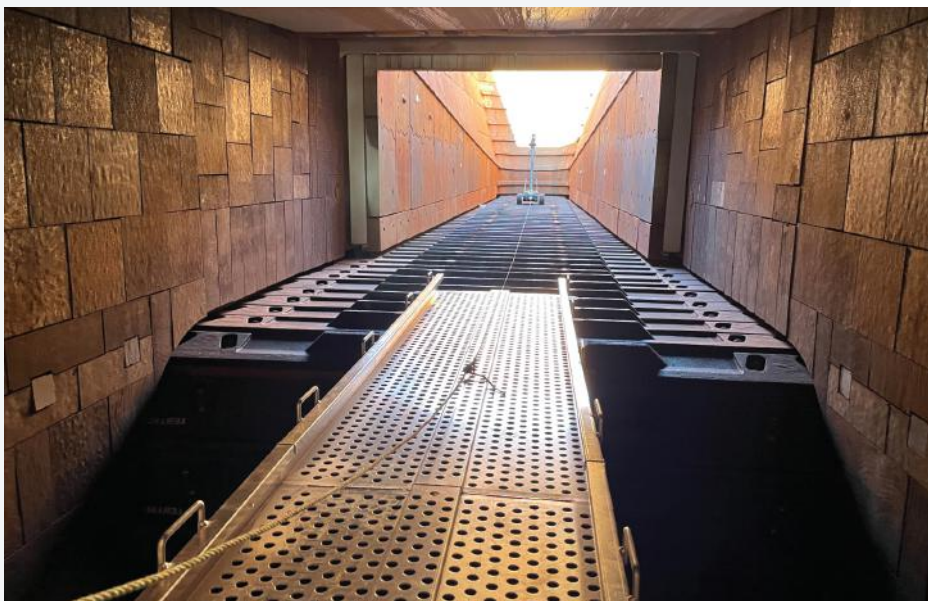


CAUTION:

1. Not rated for person access - WLL 45kg
2. Use leash on RAMP so RAMP can be retrieved in event RAMP is dropped into CHUTE

SOLELY FOR:

1. Use at COS APRON FEEDER DISCHARGE CHUTE to enable remote controlled CRAWLER to enter APRON FEEDER in order to 3D scan COS TUB LINERS.



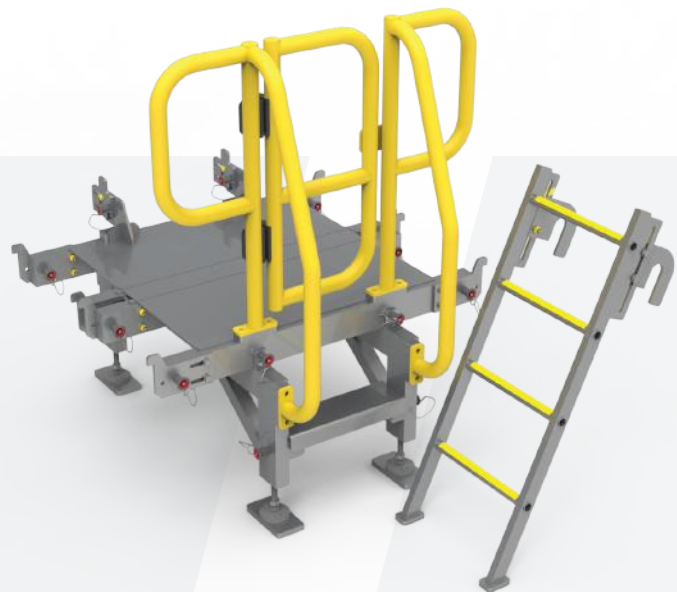
SPECIALISED PLANT PLATFORMS

CH421C TO CH421F DRIBBLE CHUTE ACCESS PLATFORM SET

AKA: JEKYLL & HYDE

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 150kg WLL multiple piece platform (internal) - Asset #: OHP3-CH421-AP002
- 150kg WLL multiple piece platform (external) - Asset #: OHP3-CH421-AP001
- Storage Rack with forklift pockets & lifting lugs
- Drawing # 867-S-12616

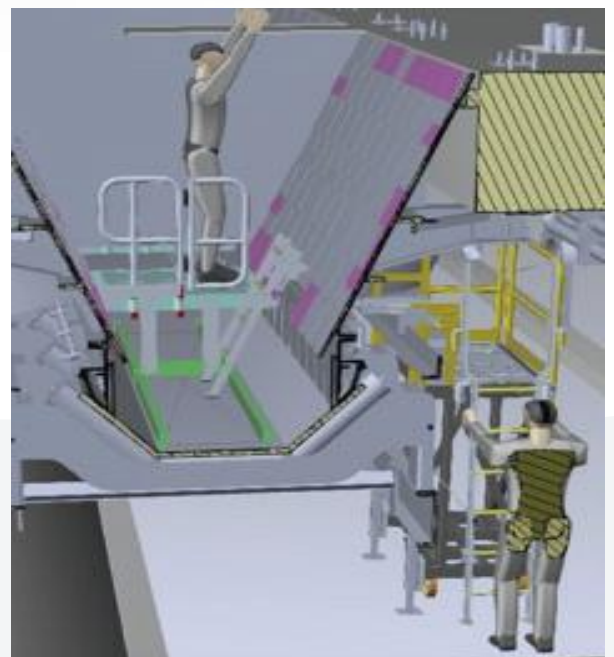


CAUTION:

1. External platform jacks to be deployed at all times except when platform in transit.
2. Platforms to be erected in accordance with drg. # 867-S-12616.
3. External platform's cantilever platform to be supported by Building Beam as instructed in drg. 867-S-12616.
4. Platform pieces to be stored in RACK after use.

SOLELY FOR:

1. Use to access each of the four dribble chutes below each of the COS APRON FEEDERS.



SPECIALISED PLANT PLATFORMS

CH451A LINER RENEWAL PLATFORM

AKA: BEAST

DESCRIPTION:

- One piece platform with integrated sliding decks and sliding & swing handrails.
- Fitted with wheel blocks for running on building rails
- Fitted with lifting lugs
- Approx. mass: 11 Tonne
- Drawing # 863-S-12071
- Asset # OHP3-BG450-AP006



CAUTION:

1. Ensure all sliding decks are locked in retracted position prior to moving platform to minimise risk of fouling.
2. Only enter platform once it is in position and there is no open edge.

SOLELY FOR:

1. Use in BG450 below 'A' CHUTE once VIBRATING FEEDER is removed.
2. Ideal to facilitate 'A' CHUTE liner renewal, upper portions of 'B' CHUTE liner renewal & GUILLOTINE access.
3. Consideration could be given to removal of 'A' CHUTE using this platform.



SPECIALISED PLANT PLATFORMS

CH451B INTERNAL ACCESS

AKA: KOOKABURRA

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 150kg WLL platform which can be reconfigured to access all four quadrants of CHUTE Asset # OHP3-CH451B-AP001

- 150kg WLL coffin plate Asset # OHP3-CH451B-AP002
- Storage Rack with forklift pockets & lifting lugs
- Drawing # 863-S-12061

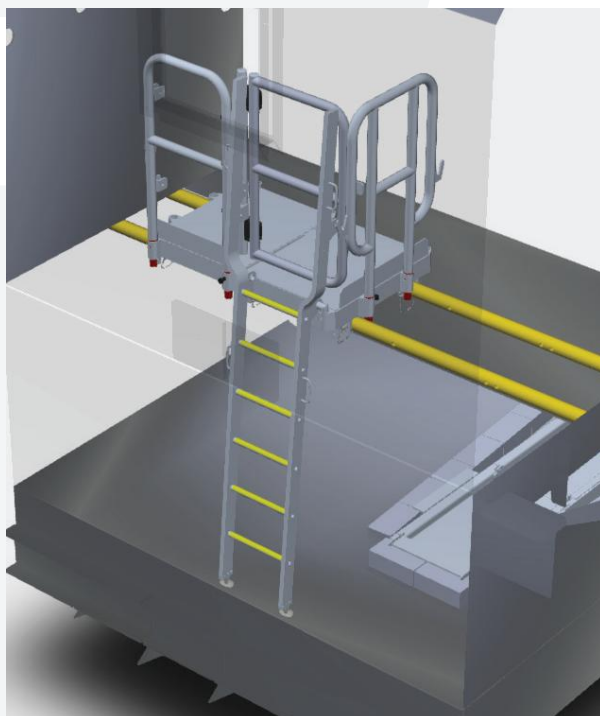


CAUTION:

1. Follow installation direction of drg. # 863-S-12061.
2. Platform pieces to be stored in RACK after use.

SOLELY FOR:

1. Use at BG450 to access 'B' CHUTE internals



SPECIALISED PLANT PLATFORMS

SECONDARY CRUSHER ACCESS PLATFORM

AKA: TOAD

FEATURES:

- 150KG WLL one piece platform with integrated sliding deck.
- Two loose ladders of different lengths that can be stowed on main platform
- Fitted with lifting lugs and forklift pockets
- Tare weight: 2065kg
- Drawing # 863-S-12065
- Asset # OHP3-BG450-AP004



CAUTION:

1. Prior to lifting MAIN PLATFORM into position it is recommended that both ladders be removed from MAIN PLATFORM to minimise risk of clashing with congested building BG450.
2. Follow direction of drg. #'s 864-S-12065/66/67/68 when lifting platform into / out of building.
3. After use stow both ladders on MAIN PLATFORM

SOLELY FOR:

1. Use at BG450 for providing access to internals of SECONDARY CRUSHER.



SPECIALISED PLANT PLATFORMS

CH451D - SECONDARY CRUSHER UNDERCHUTE LUBE OIL LINE PLATFORM

AKA: BADGER

DESCRIPTION:

- Multiple piece platform set
- Comes with Storage Rack with forklift pockets & lifting lugs
- WLL 250kg
- Drawing # 863-S-12058
- Asset # OHP3-BG450-AP003

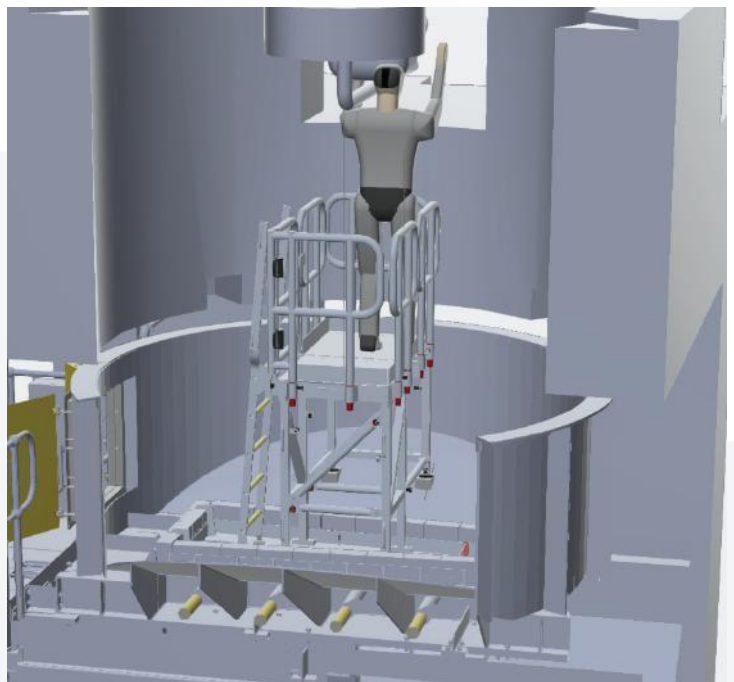


CAUTION:

1. Follow installation instructions of drg. # 863-S-12060.
2. Store platform pieces on RACK after use.

SOLELY FOR:

1. Use within BG450 SECONDARY CRUSHER UNDERCHUTE.
2. Ideal for accessing lube oil piping within UNDERCHUTE.



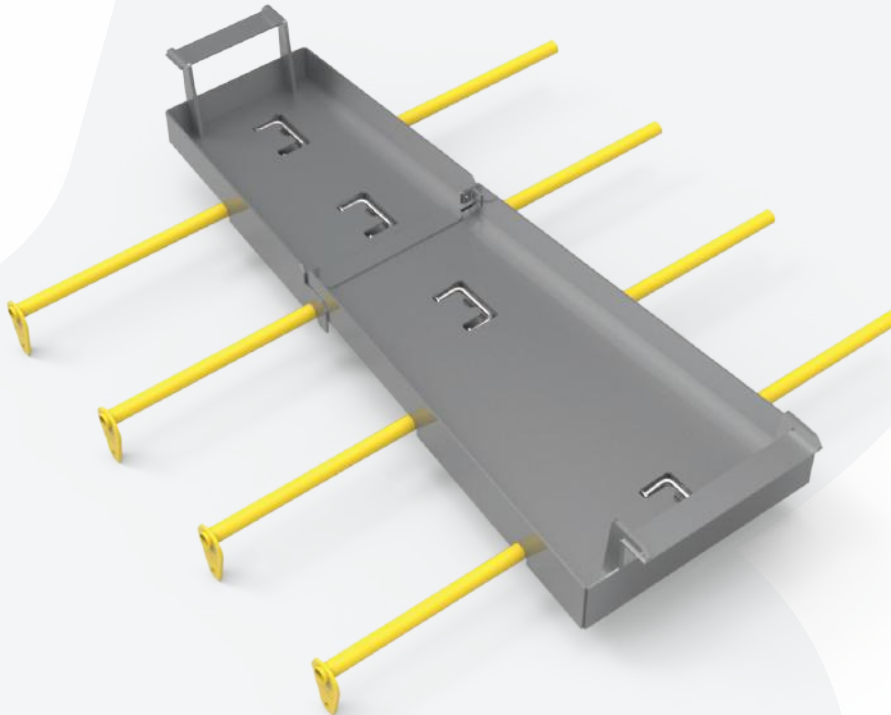
SPECIALISED PLANT PLATFORMS

CH451D - SECONDARY CRUSHER UNDERCHUTE COFFIN PLATE

AKA: HUNTSMAN

DESCRIPTION:

- WLL 250kg
- Tare Weight: 67kg
- Multiple piece platform
- Drawing # 863-S-12054
- Asset # OHP3-BG450-AP001

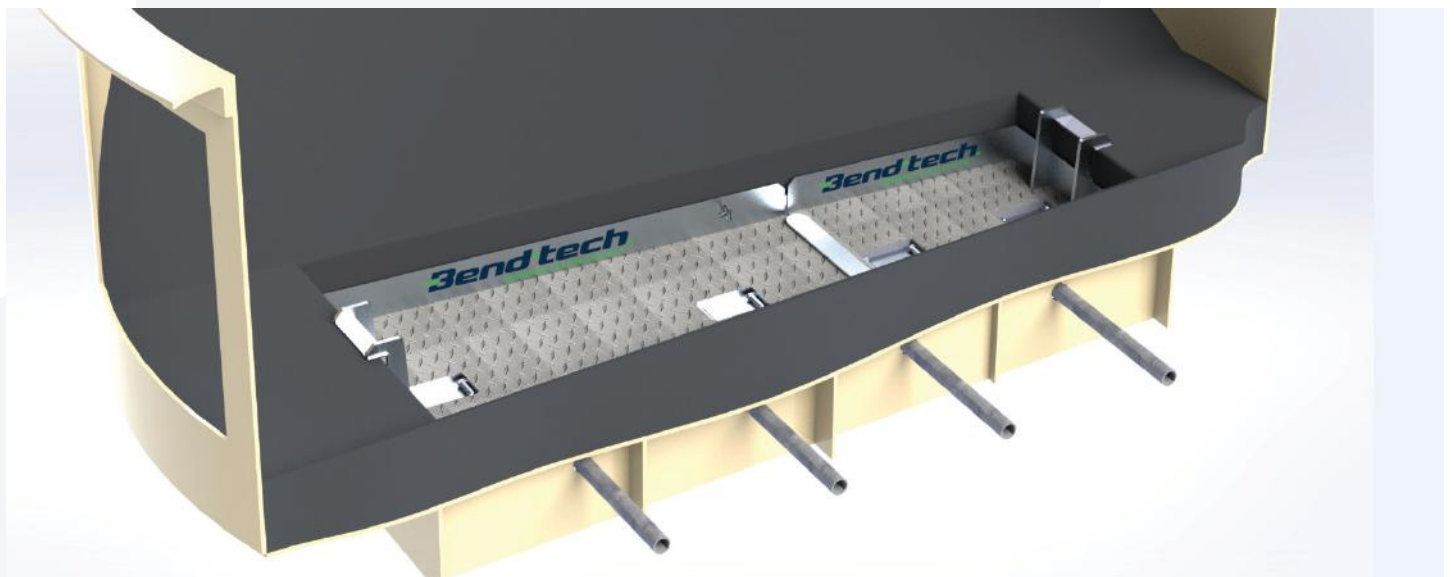


CAUTION:

1. Once installed apply a lock to secure two platform pieces together to provide UNDERCHUTE isolation from CV436 below.

SOLELY FOR:

1. Use within BG450 SECONDARY CRUSHER UNDERCHUTE to enable work within UNDERCHUTE and isolation from CV436.



SPECIALISED PLANT PLATFORMS

BF441 ACCESS PLATFORM

AKA: FRILL NECK LIZARD

DESCRIPTION:

- 150kg WLL one piece platform with swing handrails.
- Fitted with lifting lugs and forklift pockets
- Fitted with 4 swivel castors
- Tare weight: 533kg
- Drawing # 864-S-12145
- Asset # OHP3-BG440-AP004

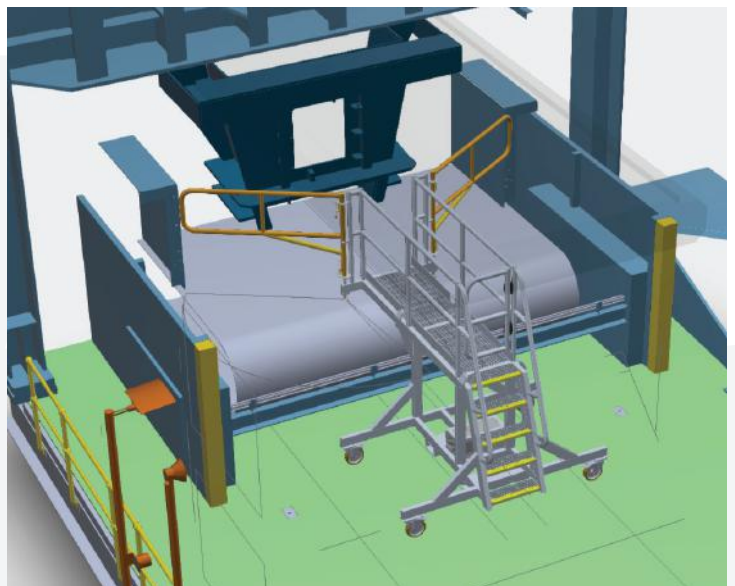


CAUTION:

1. Castors to be locked once platform in position.
2. Do not access platform unless CANTILEVER PLATFORM is supported on LPBF by jack screws.

SOLELY FOR:

1. Use at Low Profile Belt Feeders of BG440.
2. Ideal for access onto LPBF to inspect PLOUGH and 'A' CHUTE LINERS & access to GUILLOTINE.



SPECIALISED PLANT PLATFORMS

CH441A LINER RENEWAL PLATFORM ROLLER BENCHES (5 OFF) LINER CAGES (2 OFF)

AKA: TORTOISE

DESCRIPTION:

- 6 Tonne WLL one piece platform with fold down ramp and swing handrails
- Tare weight: 2907kg
- Fitted with lifting lugs
- Drawing # 864-S-12149
- Comes with;
 - * 250kg WLL Roller Bench (5 off) - Tare weight: 30kg each
 - * 2 Tonne WLL Pallet Cage (2 off) - Tare weight: 336kg each
- Asset # OHP3-CH441A-AP001
- Asset # OHP3-BG440-AP004

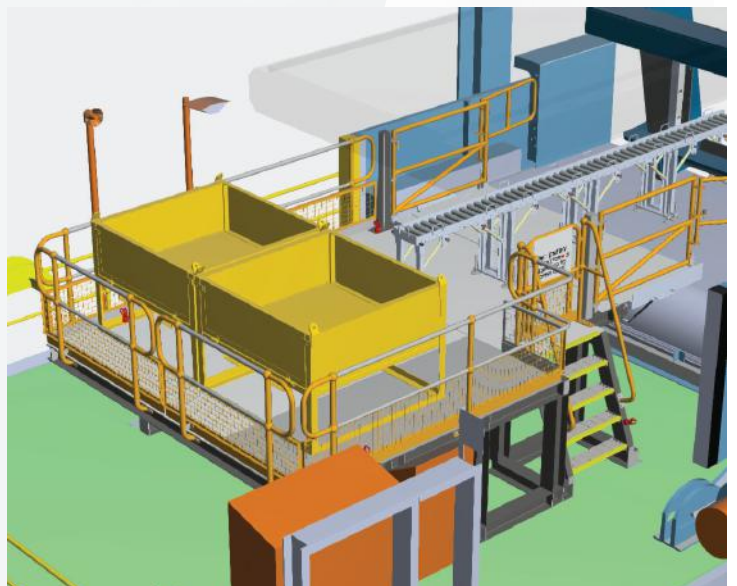


CAUTION:

1. Refer to drg. # 864-S-12149 to review lifting instructions of MAIN PLATFORM into congested BG440.
2. Do not enter PLATFORM if PLATFORM is exposed to open edge.

SOLELY FOR:

1. Use to access LOW PROFILE BELT FEEDER of BG440.
2. Ideal for renewal of 'A' CHUTE liners & Access to GUILLOTINE & LPBF PLOUGH.



SPECIALISED PLANT PLATFORMS

VS441 & VS461 ACCESS LADDER

AKA: PREYING MANTIS

DESCRIPTION:

- 150kg WLL ladder
- Tare weight: 17kg
- Drawing # 864-S-12146

- Asset #'s:
OHP3-BG440-AP003
OHP3-BG460-AP003
(Note: Both ladders are identical)

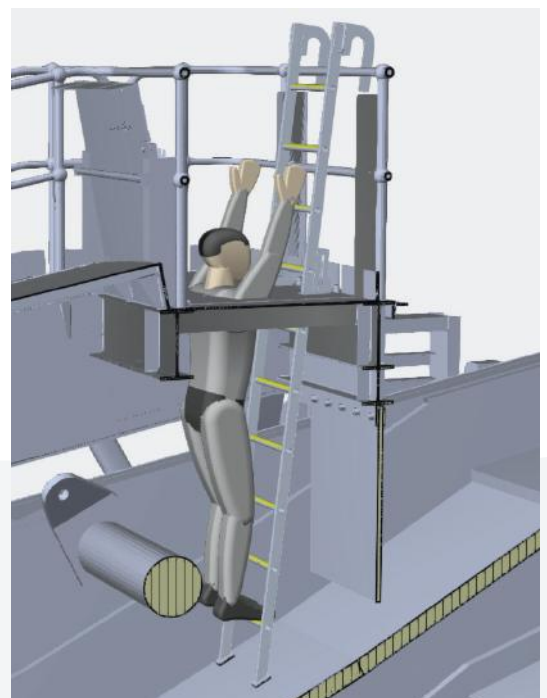


CAUTION:

1. Before climbing down ladder, ensure ladder bracket sits over existing M20 studs (2 off) that manhole lid bolts closed to.

SOLELY FOR:

1. Use to gain access down onto each VIBRATING SCREEN of both PRODUCT & SCALPING BUILDINGS.



SPECIALISED PLANT PLATFORMS

VS441 & VS461 EXCITER BOLT REMOVAL PLATFORM

AKA: WILDCAT

DESCRIPTION:

- 150kg WLL platform - LHS
 - 150kg WLL platform - RHS
 - Spigot Bracket to be permanently installed at each Vibe Screen (LHS & RHS)
- Drawing # 864-S-12168
 - Asset #'s: OHP3-VS441-AP001L & OHP3-VS441-AP001R

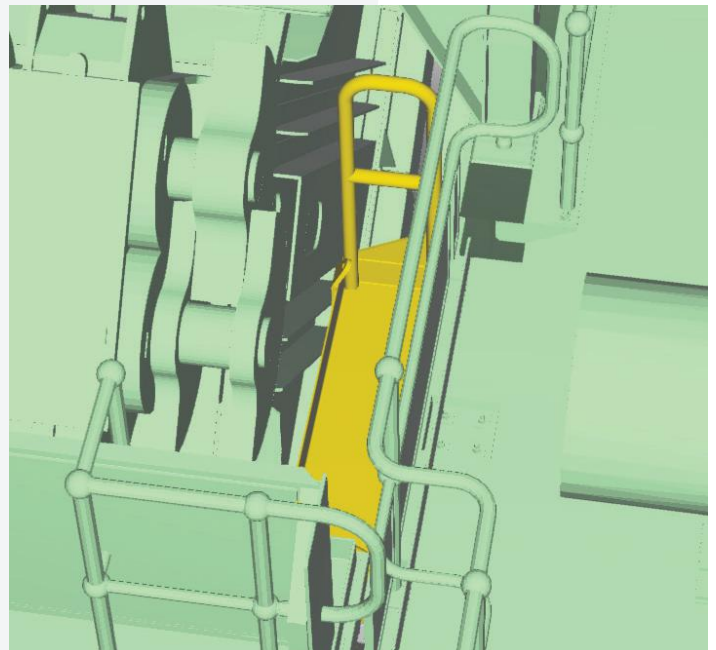
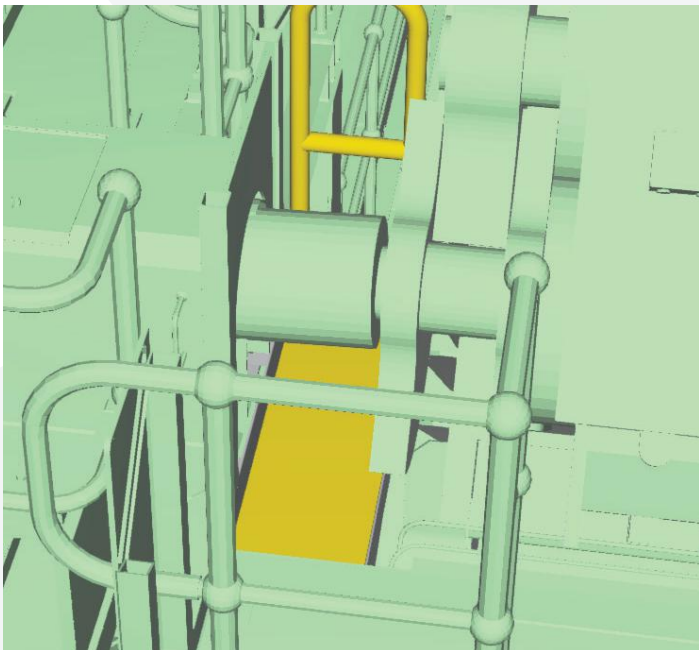


CAUTION:

1. Recommend that drive shaft be removed between motor and DE EXCITER to provide the necessary clearance to enable PLATFORM installation & use.

SOLELY FOR:

1. Use in BG440 & BG460 for gaining access to VIBRATING SCREEN EXCITERS.



SPECIALISED PLANT PLATFORMS

VS441 & VS461 PANEL REPLACEMENT PLATFORMS

AKA: SNAKE NECKED TURTLE

DESCRIPTION:

- One piece platform with swing guardrail.
- Fitted with wheel blocks (4 off) for running on building rails
- Fitted with lifting lugs
- Tare weight: 3442kg
- Provided with storage skids

- Drawing #'s 864-S-12101 (PRODUCT) & 864-S-12104 (SCALPING)
- Asset #'s OHP3-BG460-AP001 & OHP3-BG440-AP001
(Note: Platforms can be interchanged between BG440 & BG460)



CAUTION:

1. Once platform in position BOLT LOCK platform to rail to prevent further rolling of platform.
2. Use swing down guardrail so as to never expose platform users to open edge.
3. Loads are not to be landed on portion of platform as indicated, to prevent risk of platform toppling.

SOLELY FOR:

1. Use at PRODUCT & SCALPING VIBRATION SCREENS.



SPECIALISED PLANT PLATFORMS

CH441F & CH461F INTERNAL MAINTENANCE WORK PLATFORM SET

AKA: BEHEMOTH

DESCRIPTION:

- Multiple piece platform set
- Drawing # 864-S-12154
- Asset # OHP3-CH441F-AP001



SOLELY FOR:

1. Use to access F-CHUTE internals in BG440 & BG460.
2. Ideal for accessing liners once VIBRATING SCREEN removed.



SPECIALISED PLANT PLATFORMS

CH461A LINER RENEWAL PLATFORM

AKA: BEAST JR

DESCRIPTION:

- Two piece platform
- Fitted with wheel blocks for running on building rails
- Fitted with lifting lugs
- Approx. mass: 9 Tonne
- Drawing # 864-S-12164
- Asset # OHP3-BG460-AP006

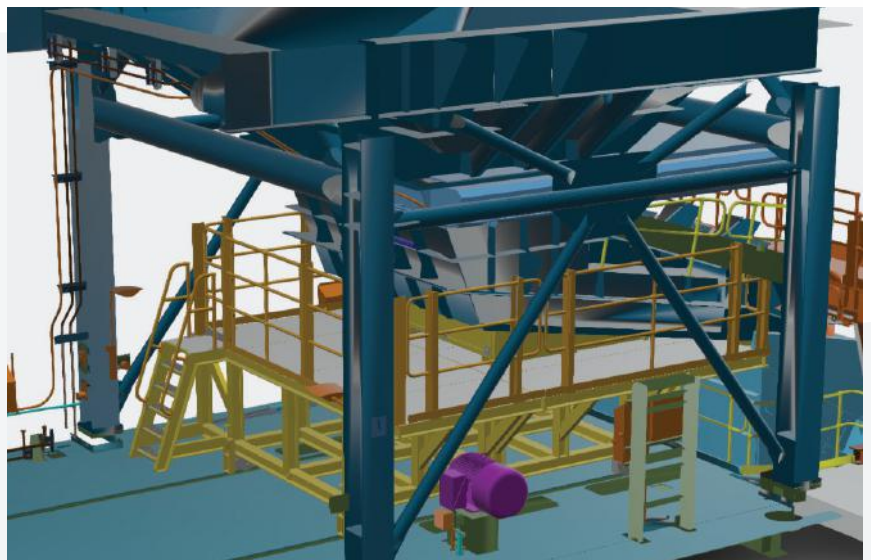


CAUTION:

1. Only enter platform once it is in position and there is no open edge.

SOLELY FOR:

1. Use in BG460 below 'A' CHUTE once VIBRATING FEEDER is removed.
2. Ideal to facilitate 'A' CHUTE liner renewal & GUILLOTINE access.
3. Consideration could be given to removal of 'A' CHUTE using this platform.



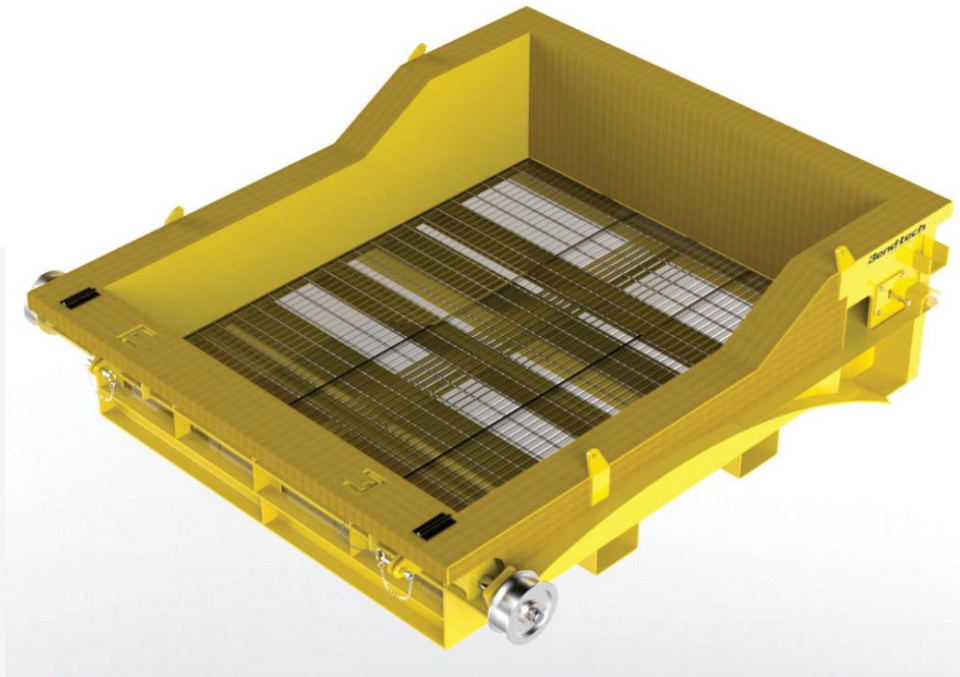
SPECIALISED PLANT PLATFORMS

ST04 / ST05 LOWER HEAD CHUTE LINER INSPECTION PLATFORM

AKA: FLYING FOX

DESCRIPTION:

- Tare weight: 1744kg
- 500KG WLL one piece platform
- Fitted with lifting lugs and forklift pockets
- Drawing # 866-S-12275
- Asset # OHP3-ST04-AP002
- To be used in conjunction with TK supplied special tooling

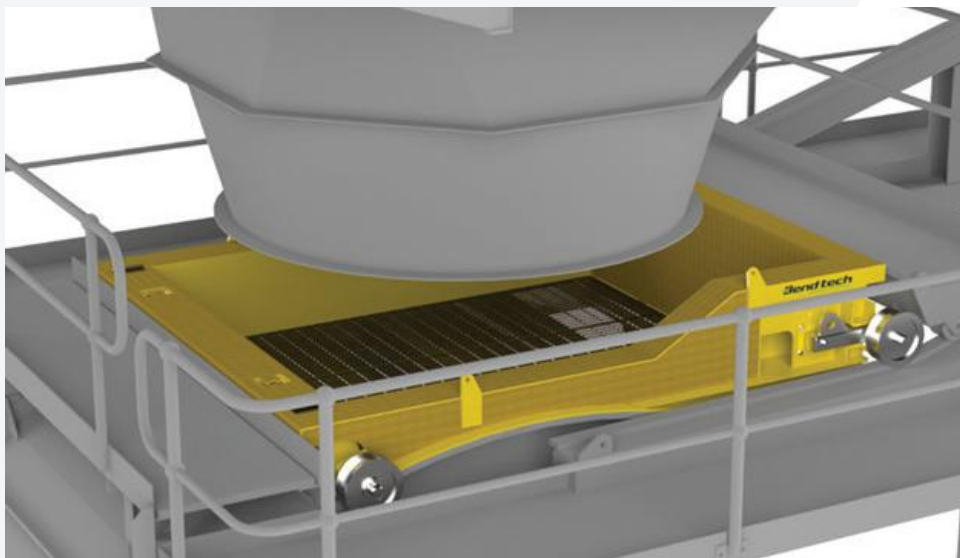


CAUTION:

1. Note installation sequence outlined in drg. # 866-S-12276.

SOLELY FOR:

1. Use at ST04 & ST05 in conjunction with the TK supplied MAINTENANCE FRAME & associated tooling.
2. Ideal for inspection of LOWER HEAD CHUTE internals.



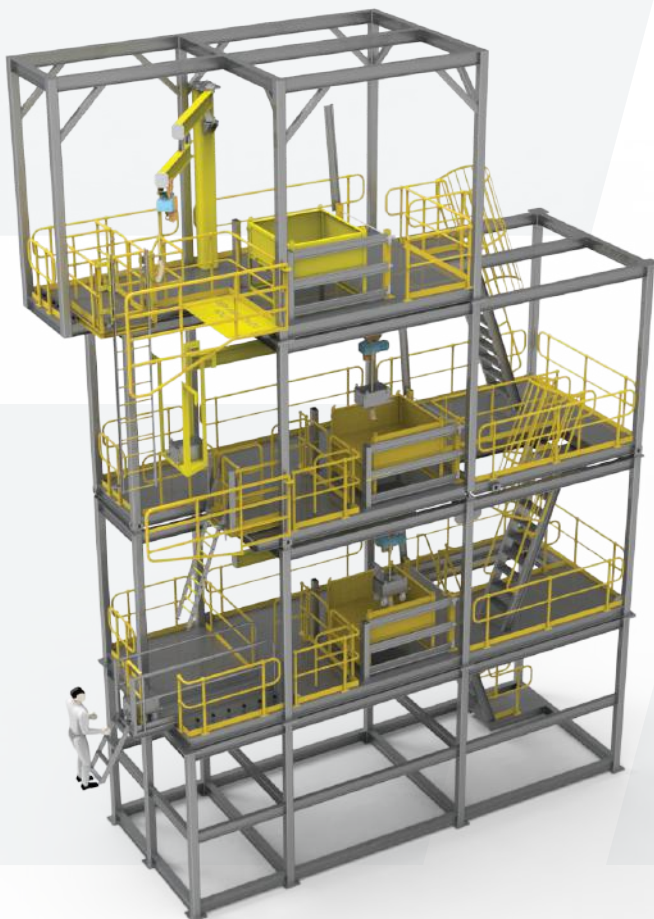
SPECIALISED PLANT PLATFORMS

RECLAIMER RC03 BUCKET WHEEL CIRCULAR LINER ACCESS

AKA: MAMMOTH

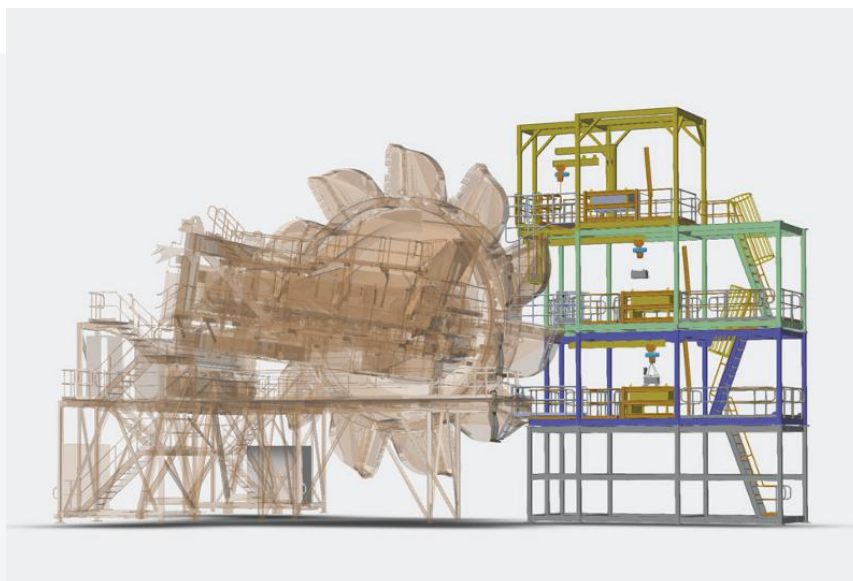
DESCRIPTION:

- Drawing # 866-S-12275
- Asset # OHP3-RC03-AP002



SOLELY FOR:

1. Use at RC03 for accessing the CIRCULAR LINER via three of the BUCKETS.



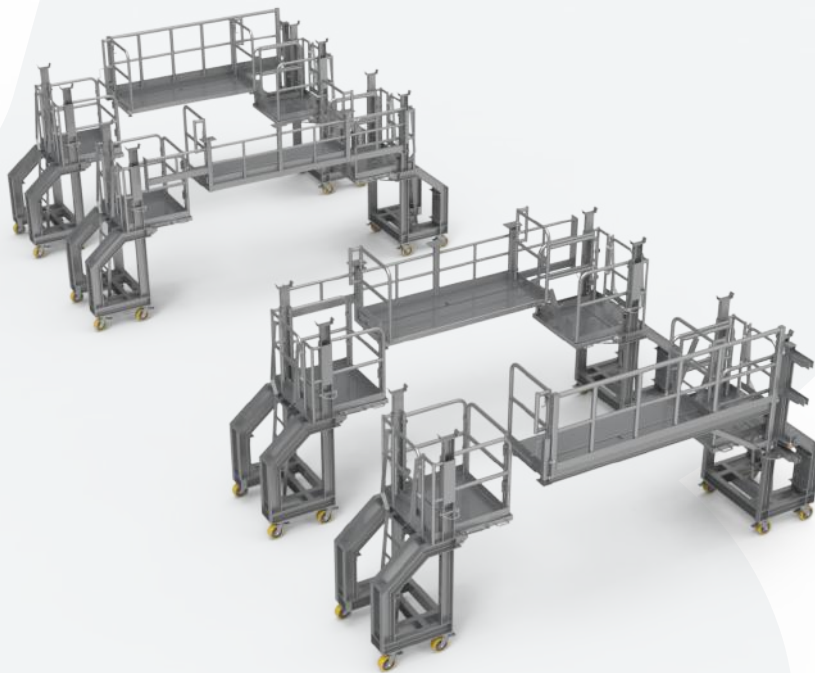
SPECIALISED PLANT PLATFORMS

TLO2 - ROTABLE LOWER CHUTE TO GUILLOTINE TOP FLANGE BOLT

AKA: MEERKATS

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 1555mm high mobile platform (4 off) - Tare weight of each: 600kg
- Fixed guardrail for permanent installation in building (2 off)
- Swing out guardrail for permanent installation in building (2 off)
- Drawing # 867-S-12611
- Asset #'s: OHP3-TLO2-AP001/2/3/4

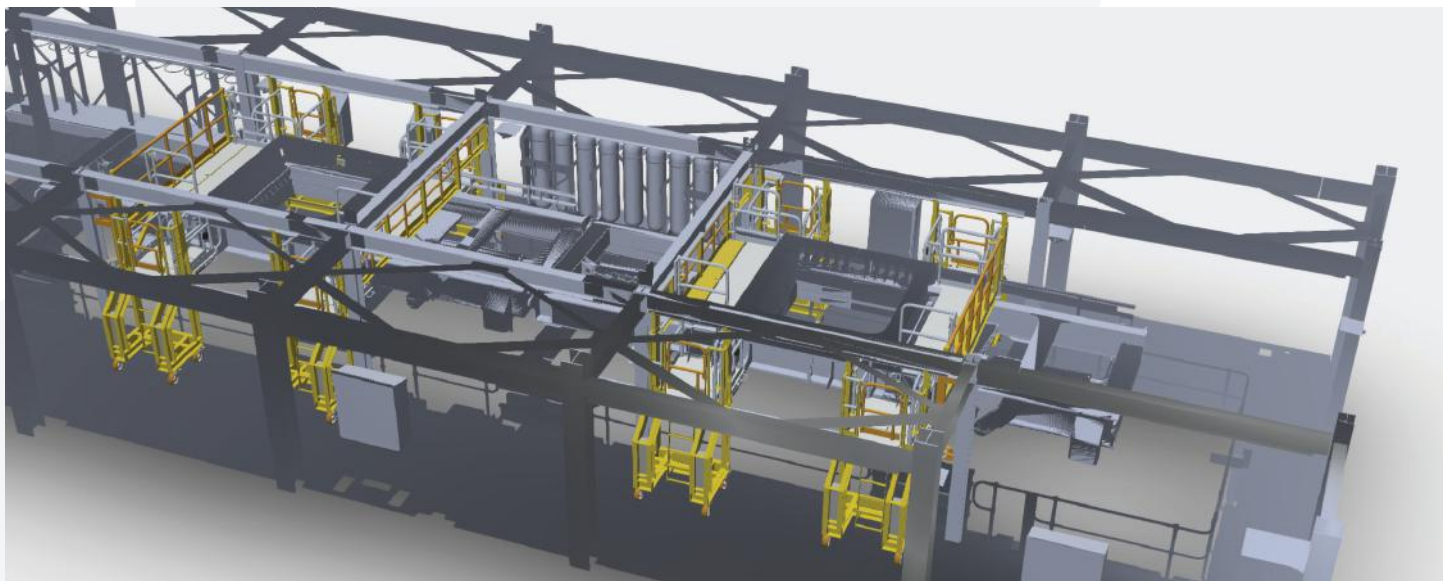


CAUTION:

- No entry to mobile platforms if;
1. Jockey stands not engaged with overhead beam.
 2. Platform exposed to open edge.

SOLELY FOR:

1. Use at TLO2 for accessing bolted flange between GUILLOTINE & rotatable LOWER CHUTE.



SPECIALISED PLANT PLATFORMS

TLO2 - ROTABLE LOWER CHUTE RELINING PLATFORM

AKA: ICECREAM CONE

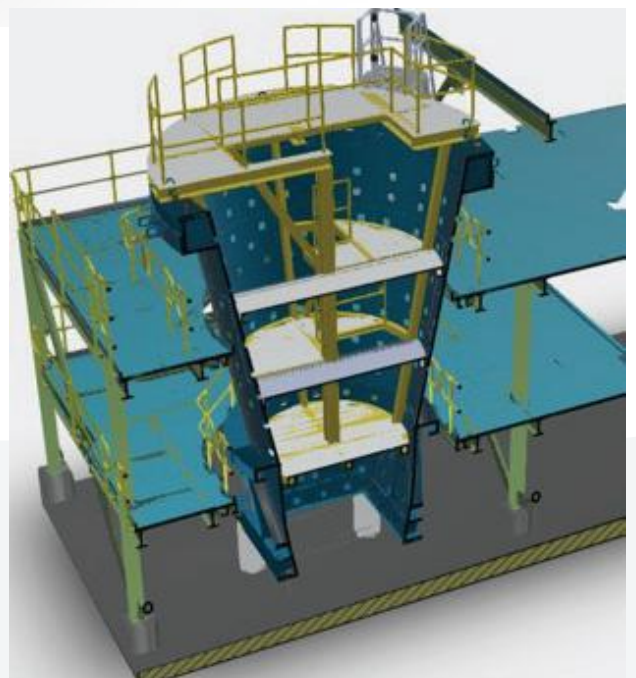
DESCRIPTION:

- Multiple piece platform set
- Drawing # 2367-S-00001
- Asset # OHP3-TLO2-AP005



SOLELY FOR:

1. Use at TLO2 maintenance bay for inspection/refurb of rotatable LOWER CHUTE.





SPECIALISED CONVEYOR PLATFORMS

SPECIALISED CONVEYOR PLATFORMS

GENERAL BELT ACCESS PLATFORM

AKA: SCORPION

DESCRIPTION:

- Fitted with 4 swivel castors
- 150KG WLL, 2200mm platform height mobile platform
- Overall Dimensions (mm): 3248H x 2974L x 1806W
- Two loose ladders of different lengths that can be stowed on main platform
- Fitted with lifting lugs and forklift pockets
- Tare Weight: 701kg
- Drawing # 2360-S-00023
- Asset # OHP3-CNV-AP001

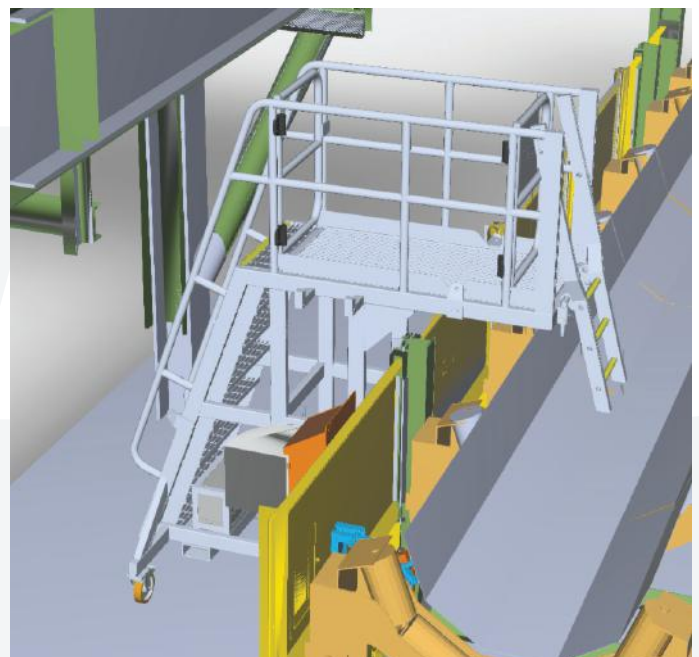


CAUTION:

1. To be used on level & firm ground
3. Castors to be locked prior to PLATFORM use.
3. Last step onto belt may vary depending on location
4. Select most appropriate of the two ladders for descending onto belt.

SOLELY FOR:

1. Use to access top of ground level conveyors.



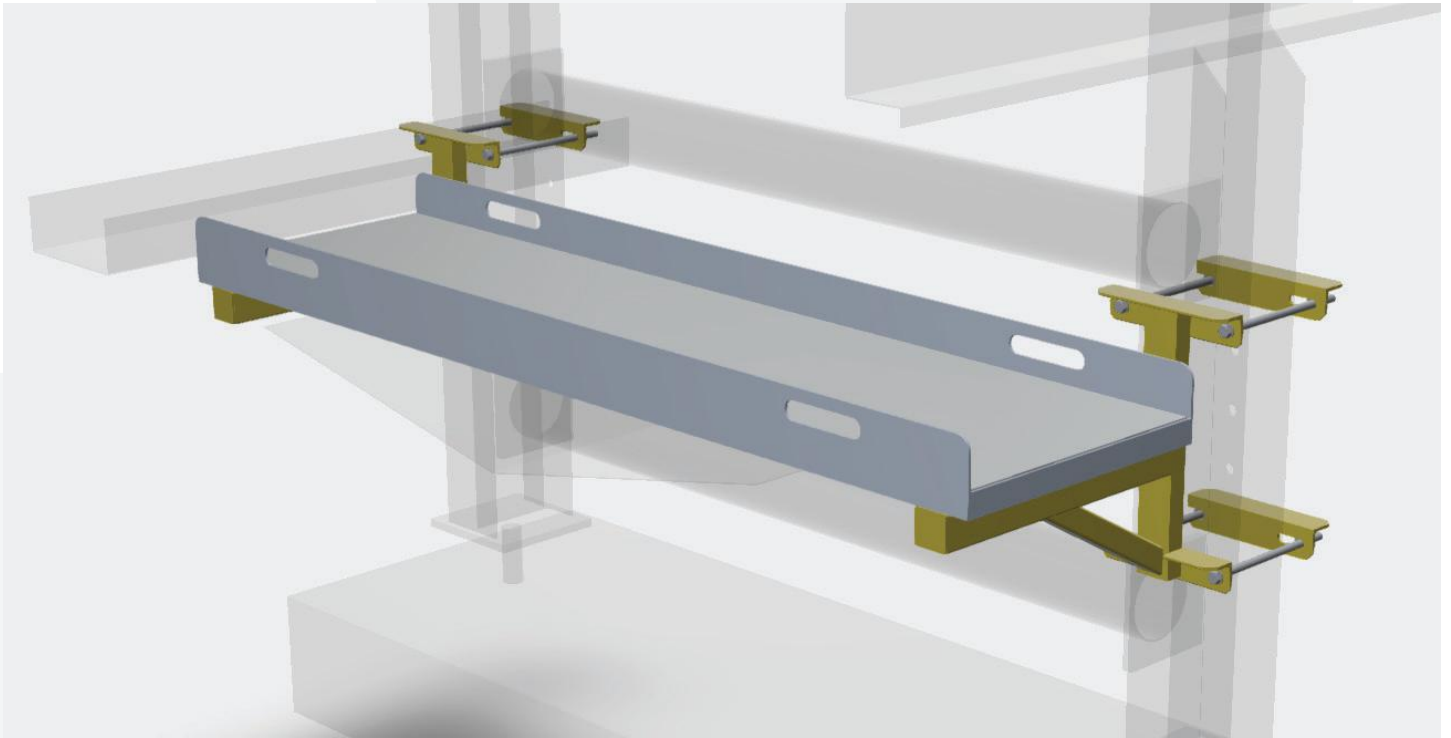
SPECIALISED CONVEYOR PLATFORMS

CV412 OVERLAND CONVEYOR STEP

AKA: CRAYFISH

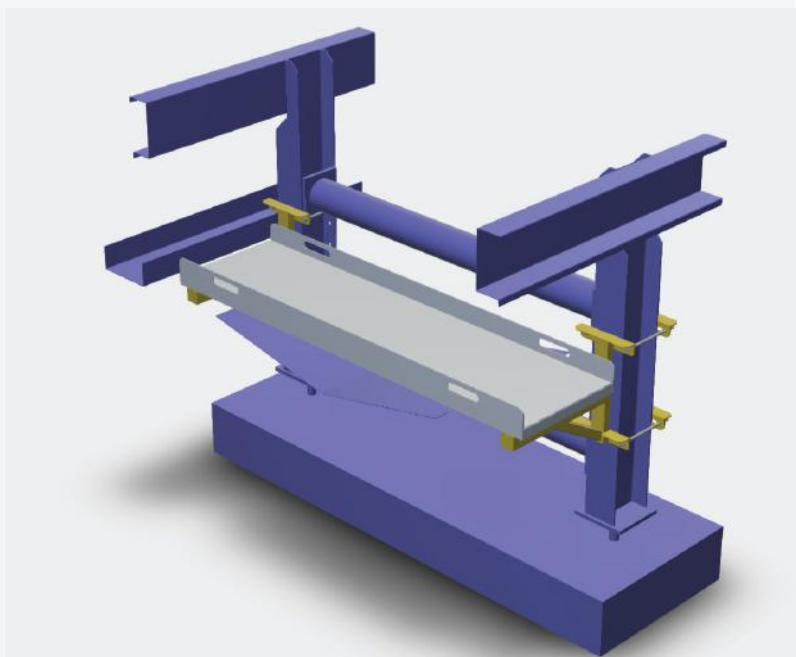
DESCRIPTION:

- 150kg WLL PLANK
- Tare weight: 30kg
- Mounting brackets (2 off)
- Drawing # 2360-S-00027
- Asset #'s: PC2-CV412-AP001/2/3



SOLELY FOR:

1. Use on overland conveyors to provide an elevated work platform.



SPECIALISED CONVEYOR PLATFORMS

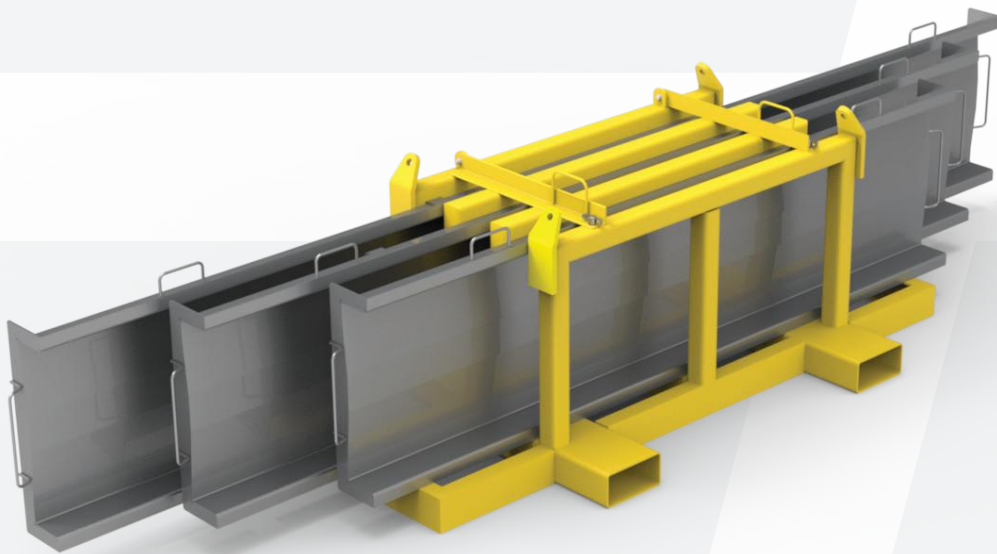
RETURN IDLER CHANGE OUT PLATFORM SET

AKA: MILLIPEDES

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 150kg WLL PLANK of 2300mm length & 25kg tare weight & Asset #: OHP3-CV439-AP001
- 150kg WLL PLANK of 3000mm length & 32kg tare weight & Asset #: OHP3-CV434-AP001

- 150kg WLL PLANK of 3700mm length & 40kg tare weight & Asset #: OHP3-CV521-AP001
- Comes with Storage Rack with forklift pockets & lifting lugs
- Drawing # 860-S-12321

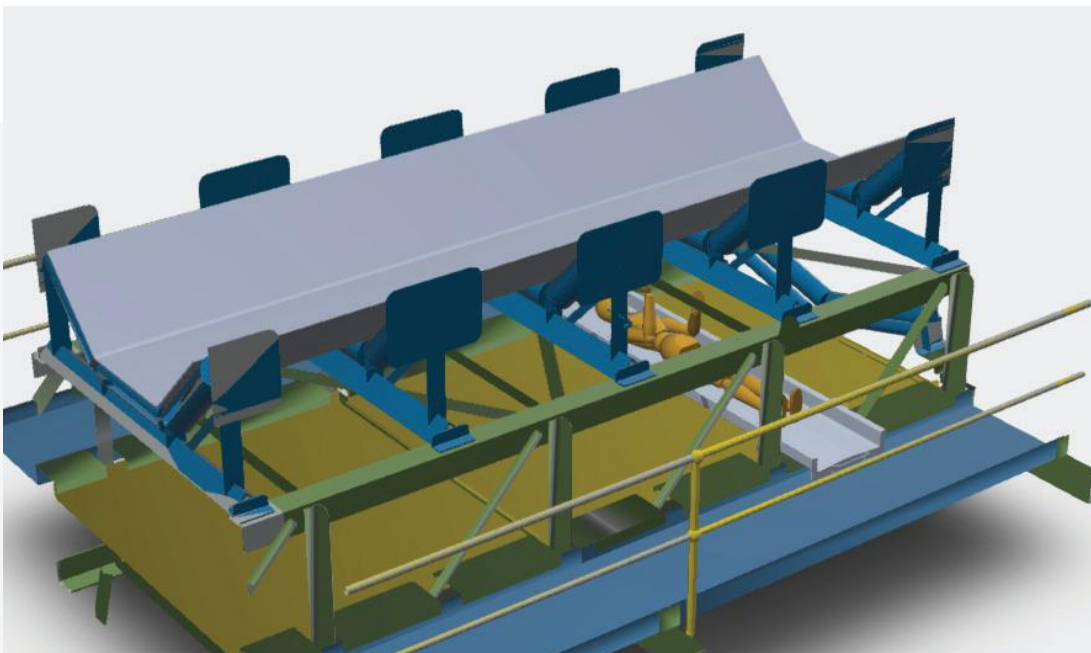


CAUTION:

1. Prior to lifting loaded rack, ensure red centre lines of 'planks' and rack are aligned to prevent 'plank' sliding out.

SOLELY FOR:

1. Use changing out conveyor return idlers.





SPECIALISED REFURBISHMENT PLATFORMS

SPECIALISED REFURBISHMENT PLATFORMS

TS412 - MAINTENANCE PLATFORMS (EXTERNAL)

AKA: ESCALADE

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 500kg WLL LHS / RHS ACCESS PLATFORM of 1937kg tare weight Asset # TS412-CH412-AP002 & Drg. # 2365-S 00001
- 500kg WLL REAR ACCESS PLATFORM of 1742kg tare weight Asset # TS412-CH412-AP003 & Drg. # 2365-S-00002
- 500kg WLL GATE ACCESS PLATFORM of 1438kg tare weight Asset # TS412-CH412-AP001 & Drg. # 2365-S-00003

- Platforms provided with lifting lugs, forklift pockets & levelling jacks

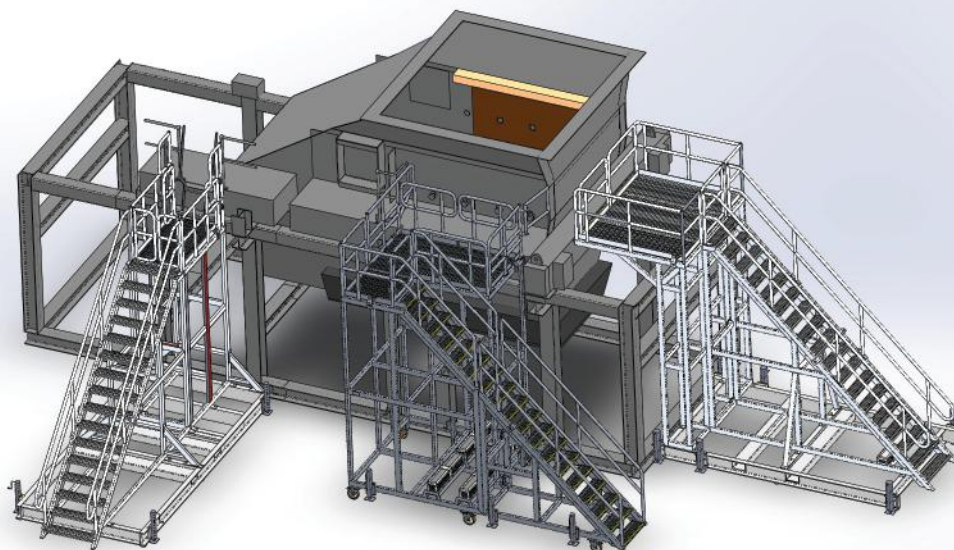


CAUTION:

1. All platforms to be levelled with jacks once in position.
2. Side access platform has drop-in handrails to be removed once platform in position.

SOLELY FOR:

1. Use for TS412 Rotable Chute refurbishment on site in transport frame.



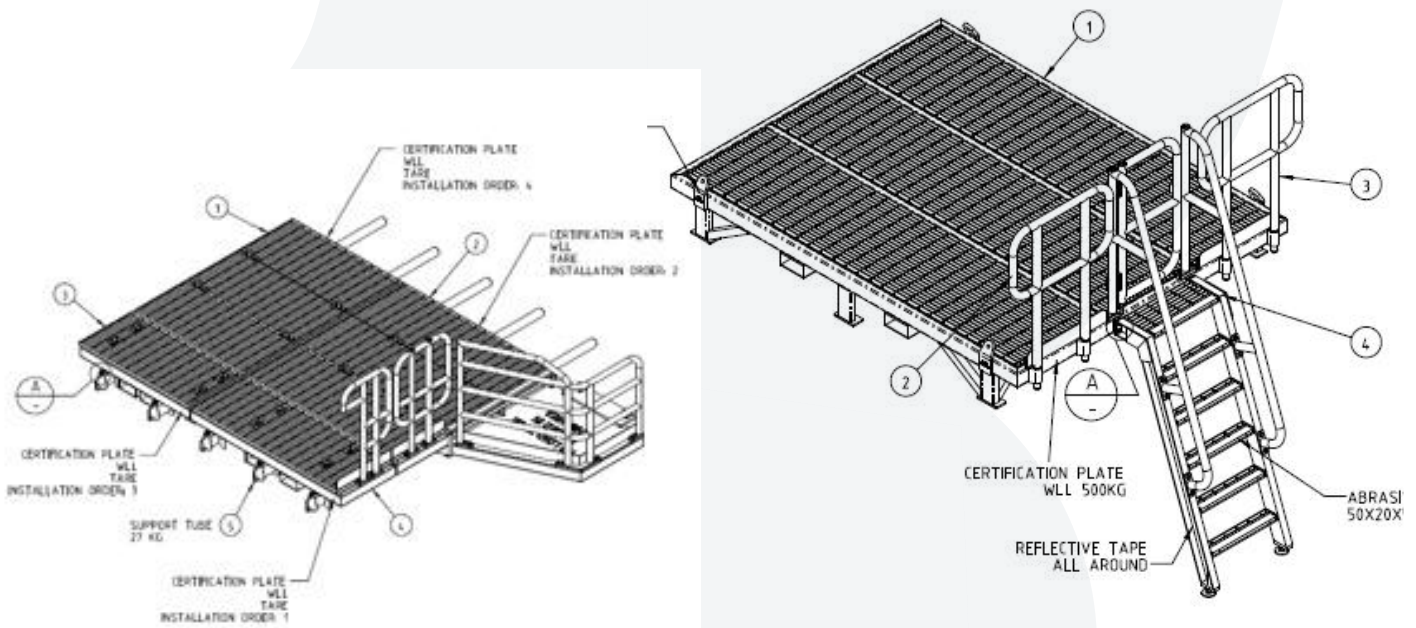
SPECIALISED REFURBISHMENT PLATFORMS

TS412 - MAINTENANCE PLATFORMS (INTERNAL)

AKA: STING RAYS

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 500kg WLL BOTTOM DROP-IN PLATFORM of 142kg tare weight Asset # TS412-CH412-AP004 & Drg. # 2365-S-00004
- 500kg WLL MIDDLE DROP-IN PLATFORM of approx. 325kg tare weight Asset # TS412-CH412-AP005 & Drg. # 2365-S-00005
- 500kg WLL TOP DROP-IN PLATFORM of approx. 822kg tare weight Asset # TS412-CH412-AP006 & Drg. # 2365-S-00006
- Each platform is multi-piece

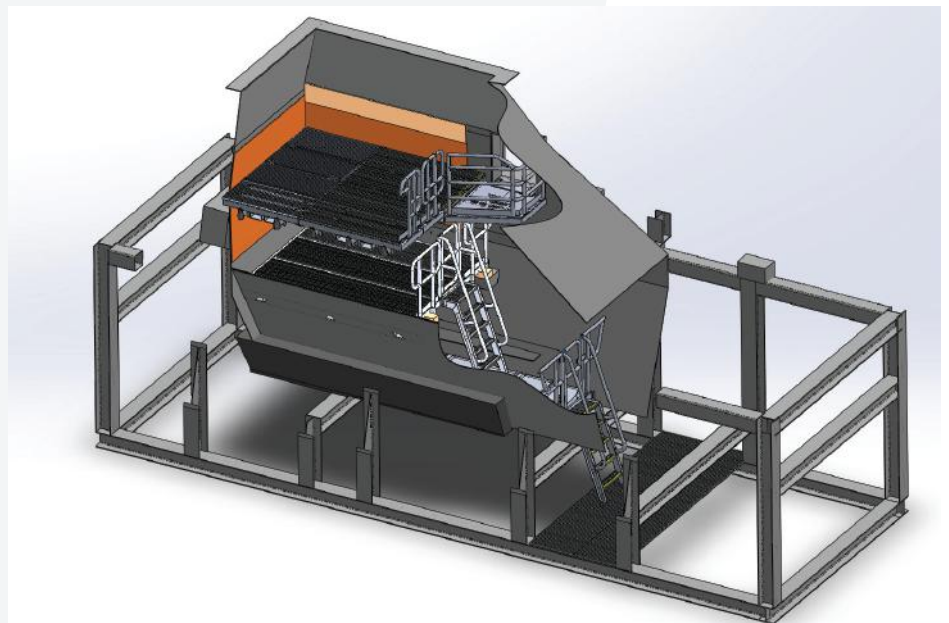


CAUTION:

1. Lowest level requires endplate to be secured with bolts at four locations.
2. Top platform to be installed as per drg. # 2365-S-00012.
Note small portion of top deck no load to be landed in this area.

SOLELY FOR:

1. Use for TS412 Rotable Chute refurbishment on site in transport frame.



SPECIALISED REFURBISHMENT PLATFORMS

VS441 & VS461 INSPECTION PLATFORM PRIOR TO SHIPPING VIBRATING SCREEN FROM SITE

AKA: MOM & BUB

MULTIPLE PIECE PLATFORM SET COMPRISING;

- ACCESS PLATFORM on inlet end of VIBE SCREEN - Asset # OHP3-BG440-AP006-INLET
- ACCESS PLATFORM on outlet end of VIBE SCREEN - Asset # OHP3-BG440-AP006-OUTLET

- Platforms provided with lifting lugs, forklift pockets & levelling jacks
- Drawing # 864-S-12171
- This set compatible on both PRODUCT & SCALPING SCREENS

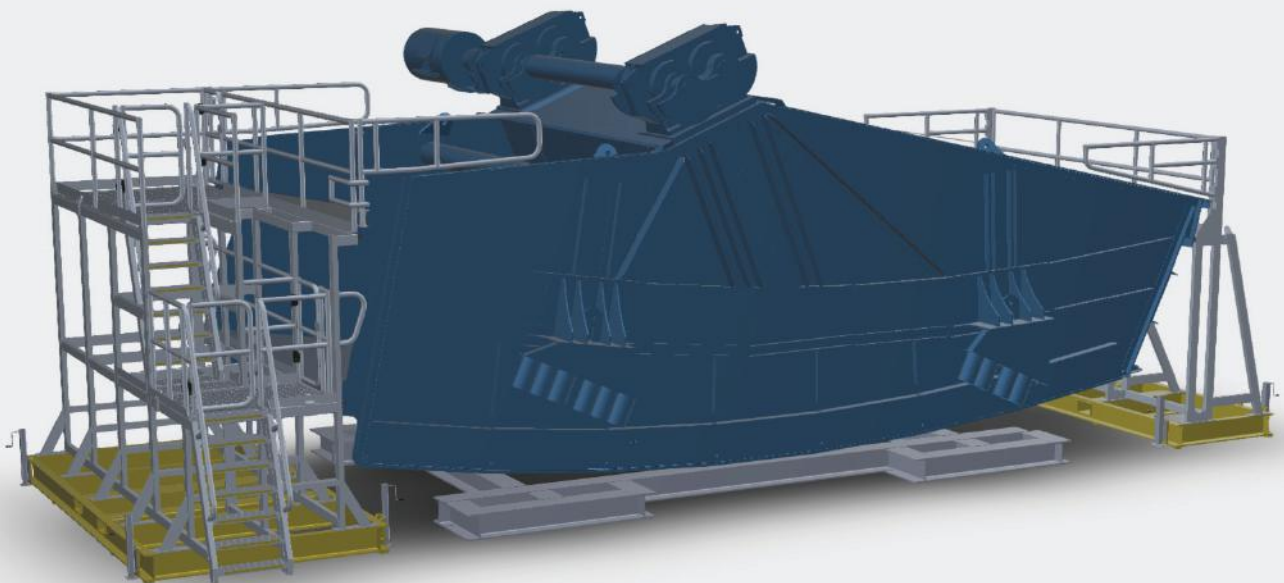


CAUTION:

1. Use jacks to level PLATFORM and ensure prior to use that all access gaps between PLATFORM and VIBRATING SCREEN are less than 100mm.

SOLELY FOR:

1. Use to access SCALPING & PRODUCT VIBRATING SCREENS once VIBE SCREENS at ground level and being prepared for cleaning in readiness for despatch via road transport.



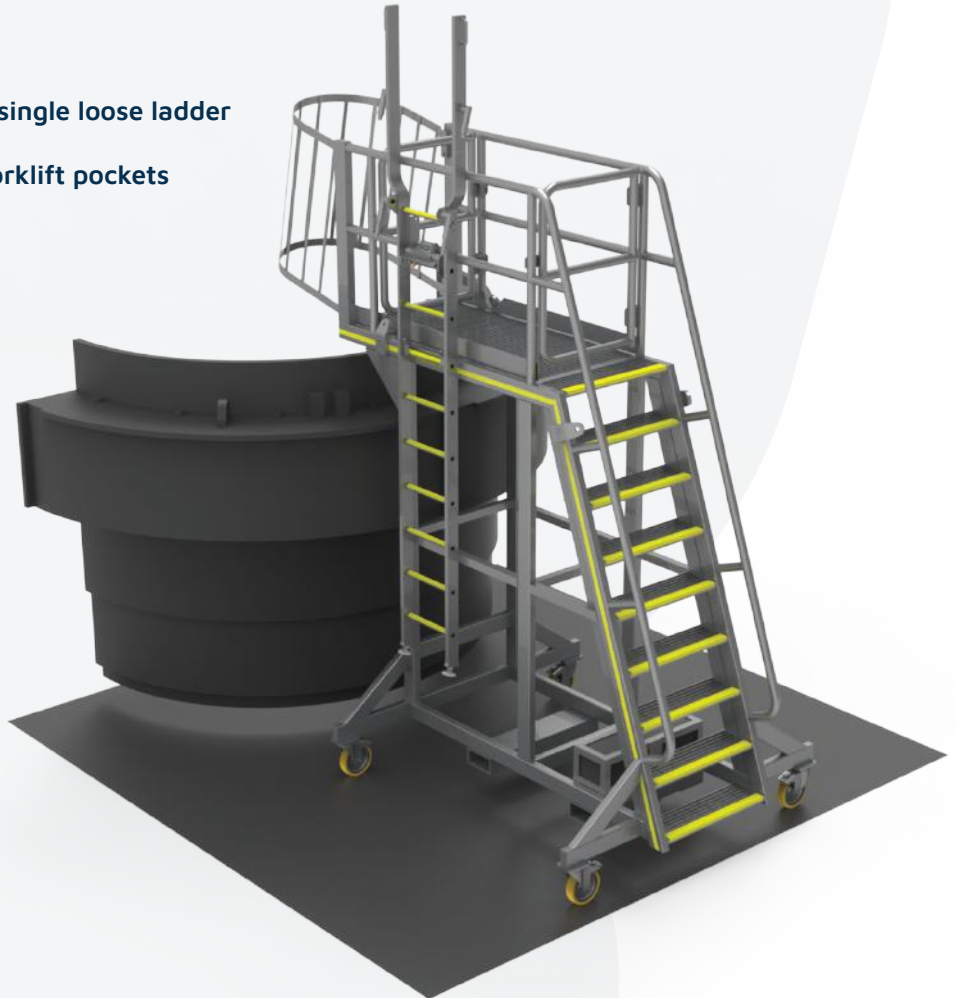
SPECIALISED REFURBISHMENT PLATFORMS

SECONDARY CRUSHERBOWL ACCESS (YARD)

AKA: ELEPHANT

DESCRIPTION:

- 400KG WLL one piece platform with single loose ladder
- Platform height: 2551mm
- Fitted with castors, lifting lugs and forklift pockets
- Tare Weight: 616kg
- Drawing # 863-S-12056
- Asset # OHP3-BG450-AP002

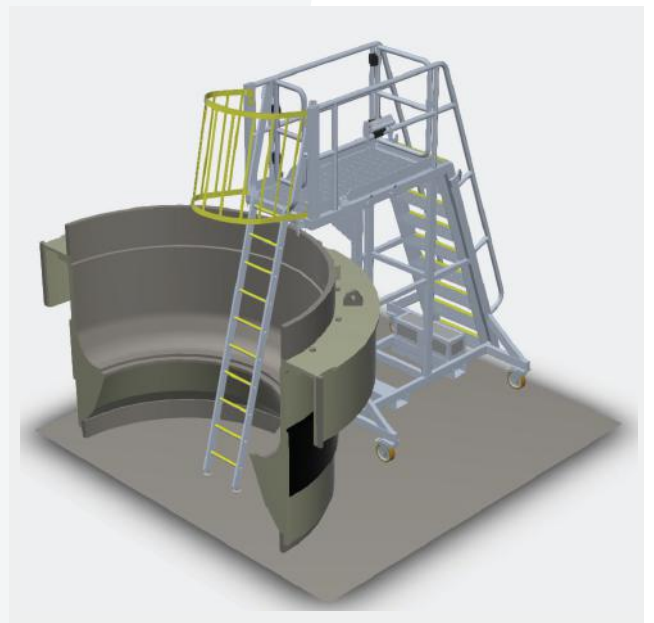


CAUTION:

1. Apply castor brakes prior to using PLATFORM.
2. Lift ladder into position prior to opening associated self-closing gate.
3. Ensure ladder feet are making contact with ground prior to descending ladder, otherwise ladder may suffer permanent distortion when loaded.

SOLELY FOR:

1. Accessing internals of SECONDARY CRUSHER BOWL or accessing top of BOWL for rigging purposes.



SPECIALISED REFURBISHMENT PLATFORMS

CH476 - TRANSPORT FRAME ACCESS PLATFORM

AKA: TADPOLES

MULTIPLE PIECE PLATFORM SET COMPRISING;

- 250kg WLL STAIRS ACCESS PLATFORM of 1098kg Tare
Weight Asset # OHP3-TSC-AP001 & Drg. # 2365-S-00008
- 500kg WLL SIDE ACCESS PLATFORM of 863kg Tare
Weight Asset # OHP3-TSC-AP002 & Drg. # 2365-S-00007
- 250kg WLL TOP ACCESS PLATFORM of 1429kg Tare
Weight Asset # OHP3-TSC-AP003 & Drg. # 2365-S-00009

- Platforms provided with lifting lugs,
forklift pockets & levelling jacks

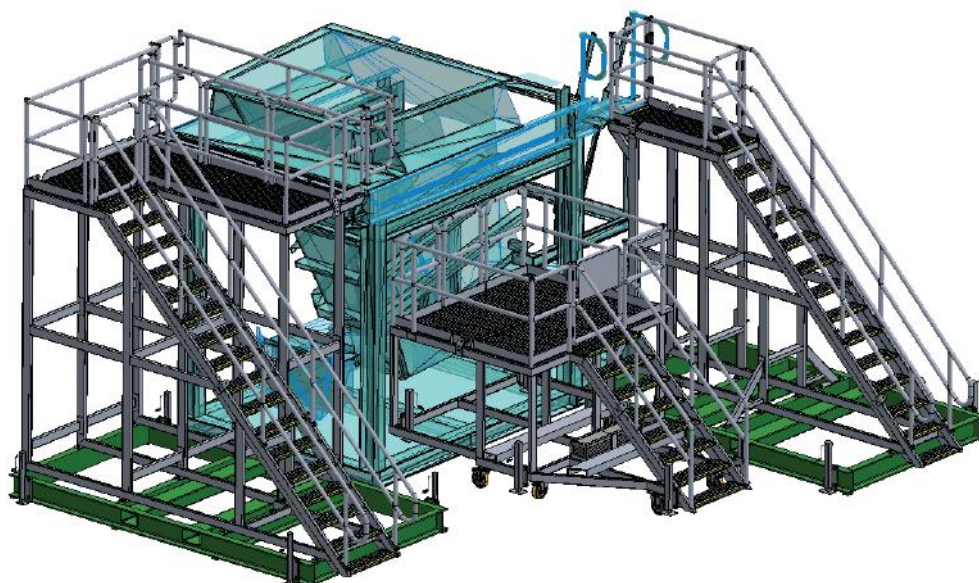


CAUTION:

1. All platforms to be levelled with jacks once in position.
2. Drop-in handrails to be removed once platform in position.

SOLELY FOR:

1. Use at LOW FLOW CONVEYOR DISCHARGE CHUTES
when on Site and on transport skid. Refer to
drawings for applicable chutes.





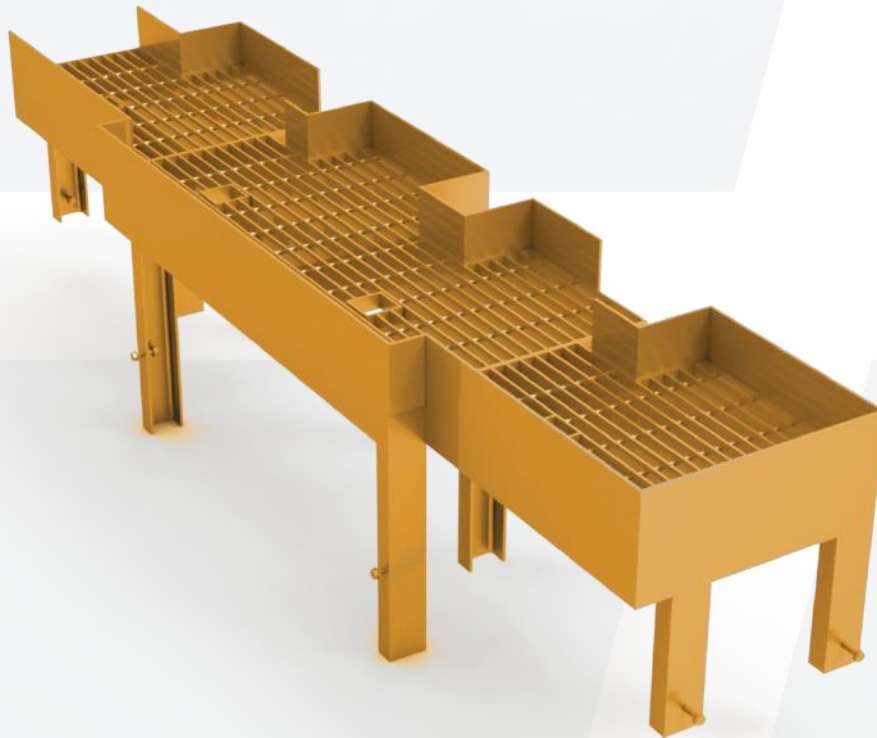
FIXED INSTALLATIONS

FIXED INSTALLATIONS

PRIMARY CRUSHER LUBRICATING OIL FILTER CHANGEOUT ACCESS

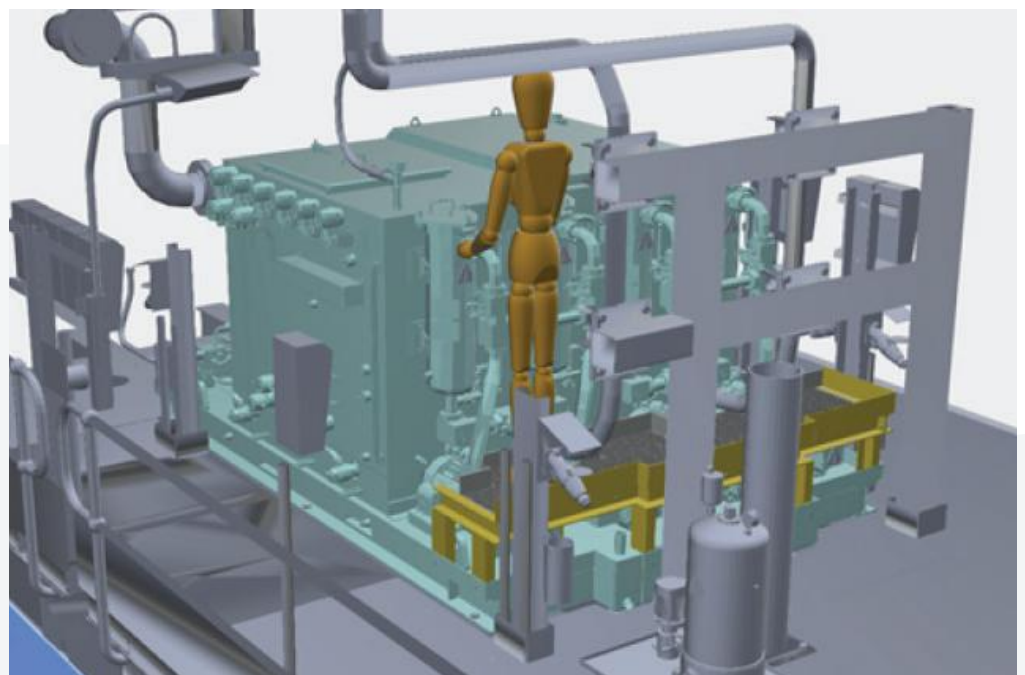
AKA: MORETON BUG

• Drawing # 2361-S-00027



SOLELY FOR:

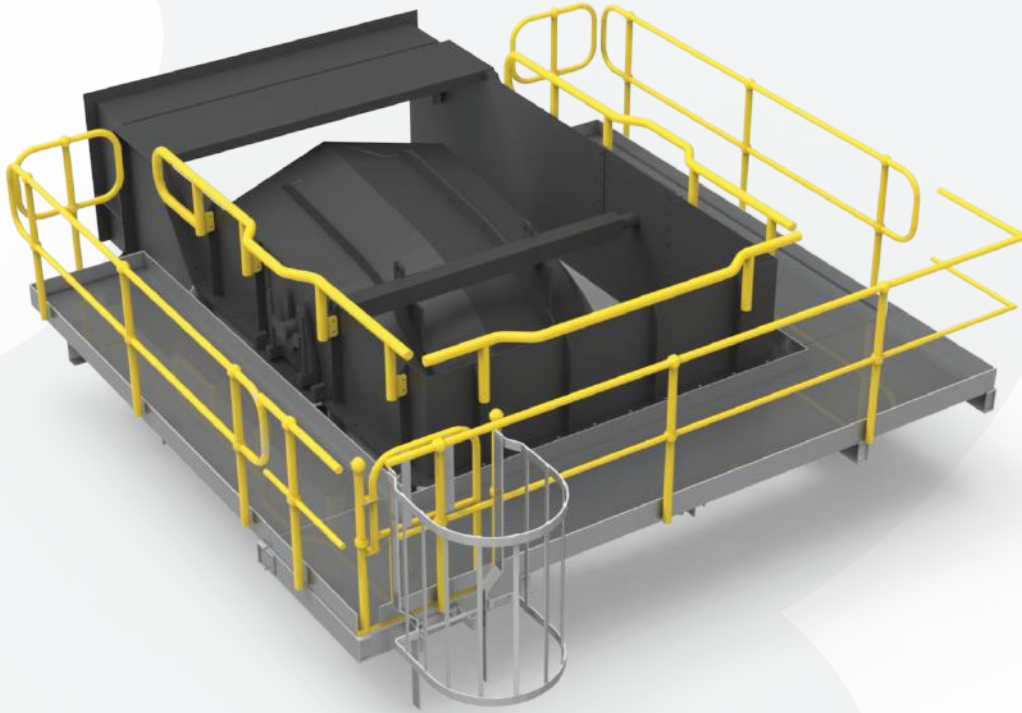
1. Use at PC1 and PC2 in order to ease access to LUBE OIL FILTERS for CARTRIDGE change-out.



FIXED INSTALLATIONS

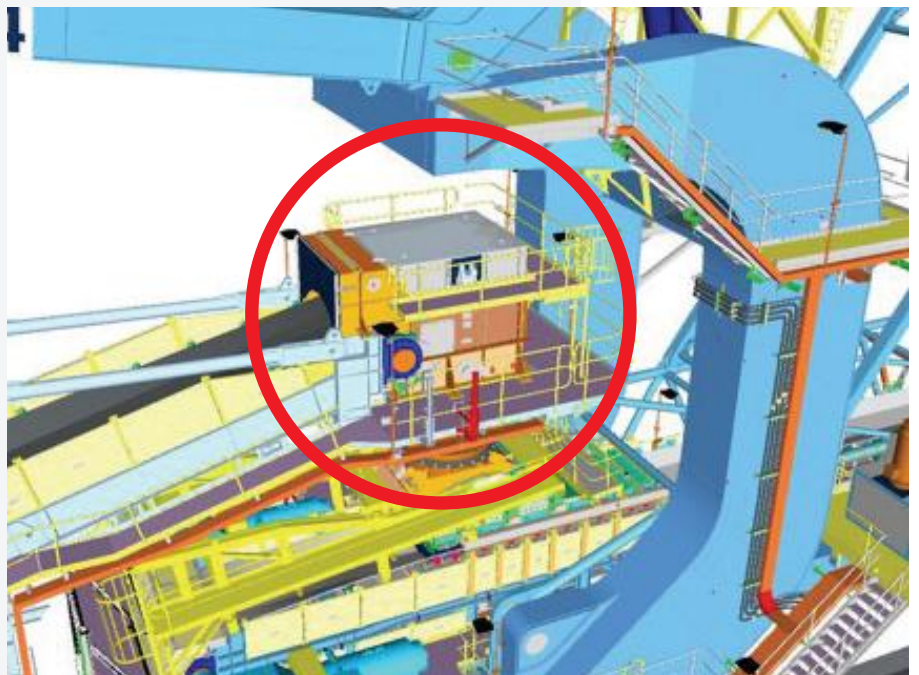
ST04 & ST05 HEAD CHUTE HANDRAIL AKA: INCH WORMS

• Drawing # 866-S-12277



SOLELY FOR:

1. Use at ST04 & ST05 to enable hinged lid of HEAD CHUTE to be opened without exposing technician to fall risk.



TAKE NOTEA large grid of graph paper for taking notes. The grid is composed of small squares and is divided into three horizontal sections by two light gray lines. The top section is the largest, followed by the middle section, and the bottom section is the smallest. The grid is intended for writing notes during a presentation or lecture.

B *BIGGER THAN BUSINESS*

TAKE NOTE

A large rectangular area filled with a light gray grid pattern, resembling graph paper, intended for taking notes. The grid consists of small squares and covers most of the page area below the header and above the footer.



DARWIN
08 8963 5621

MOUNT ISA
07 4743 6458

NEWMAN
08 9175 1164

PERTH
08 9459 8600

KALGOORLIE
08 9021 8300

ADELAIDE
08 8231 1513