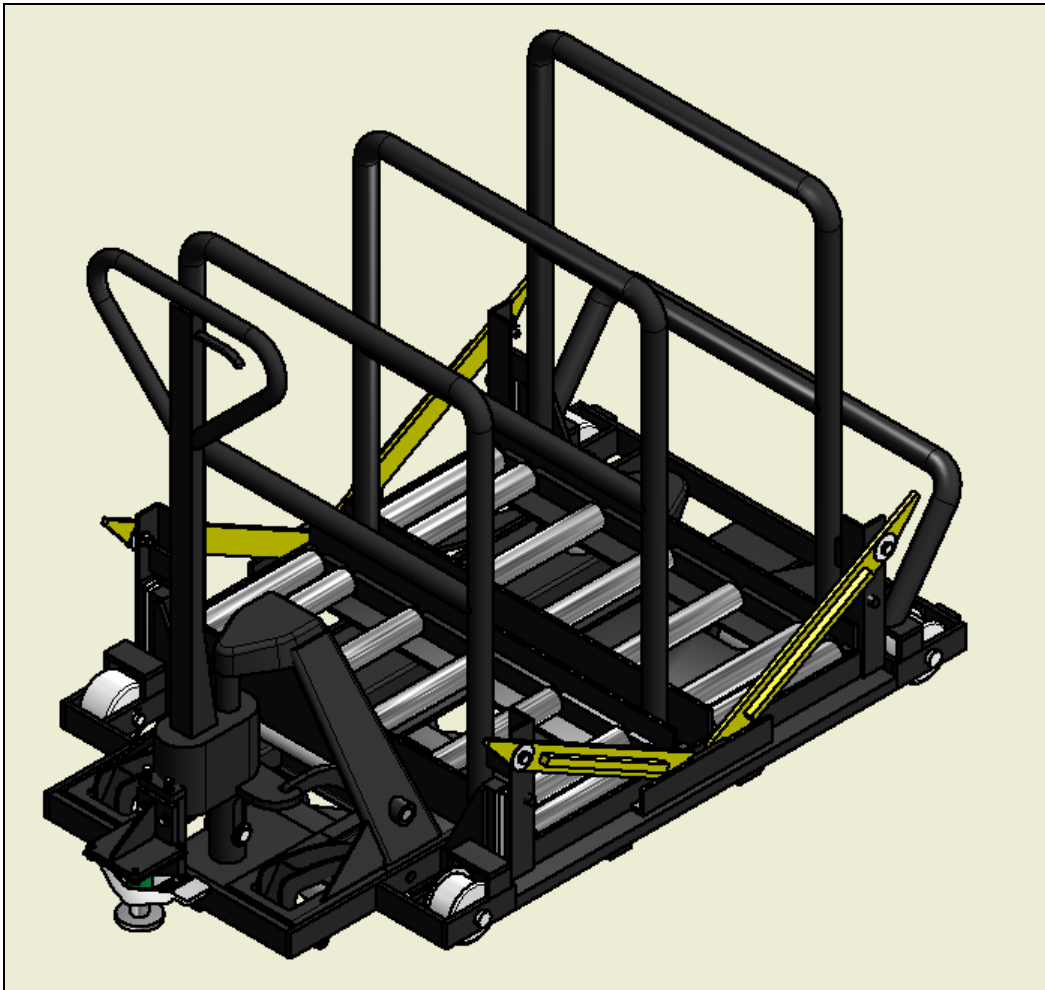


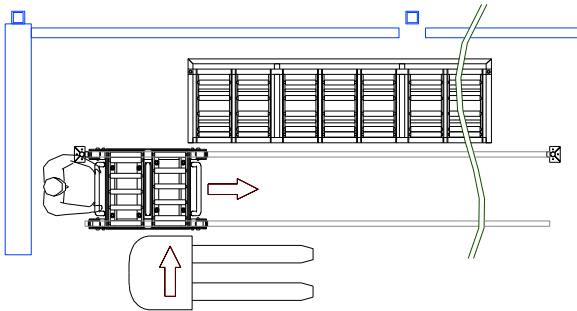
**Transfer Unit, Height Adjustable With Pallet
Truck And Foot Brake**



Installation Instructions

When installing a height adjustable transfer unit with pallet truck there should always be guide rail and end stops supplied, this is for the wheels on the transfer unit to run along the guide rail.

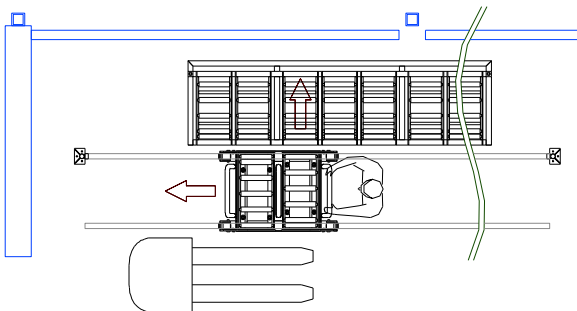
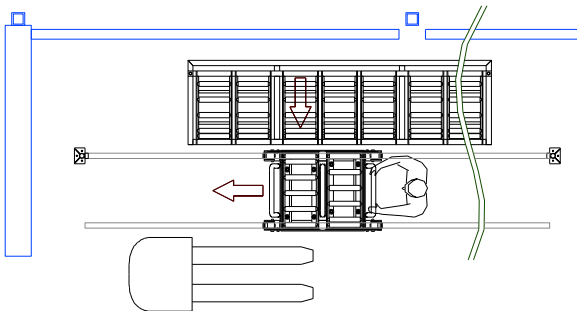
Follow the diagram and the instruction thoroughly for the installation.



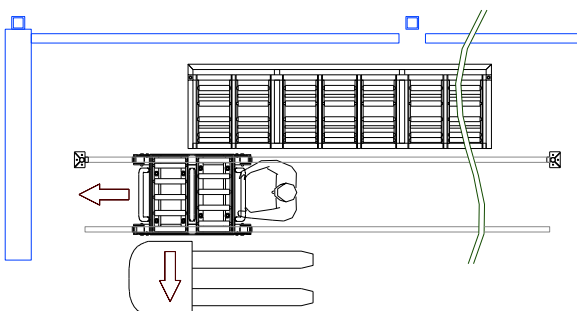
When installing the height adjustable transfer unit with pallet truck a track must be installed in the appropriate position in front of the battery beds, as shown in the diagrams.

The track is made up of 50 x 5 Flat bar and 50 x 13 Convex D Bar. The Convex D bar must always be installed nearest the rack.

The position is dependant upon the height adjustable transfer unit itself. The unit must be 20mm from the front face of the battery bed. The track must also extend beyond the battery beds; this is to allow the battery transfer unit to be pushed far enough to change the last battery on either end of the beds as shown on the picture at the bottom of the page. Once this position is achieved the track can be fastened down parallel to the beds, using an M6.5 drill bit drill through a hole at one end of the guide rail and fasten an M6 X 50mm Thunderbolt into the hole then drill through a hole at the other end of the guide rail and fasten an M6 x 50mm Thunderbolt into that hole (always making sure the guide rail is straight), then drill the rest of the holes and fasten down the track with the M6 x 50mm Thunderbolts supplied.



Once the track is secured in place and the height adjustable transfer unit with pallet truck is positioned on the track the end stops must be installed to both ends of the Convex D track, drill through the holes using an M10 SDS drill bit and fasten them down using the M10 x 75 Through bolts supplied.



Operating Instructions

All personnel using this equipment must be fully trained and issued with the appropriate Personal Protective Equipment-safety boots, overalls, safety glasses, and gloves. Throughout the whole battery changing process all personnel must avoid contact with any live terminals.

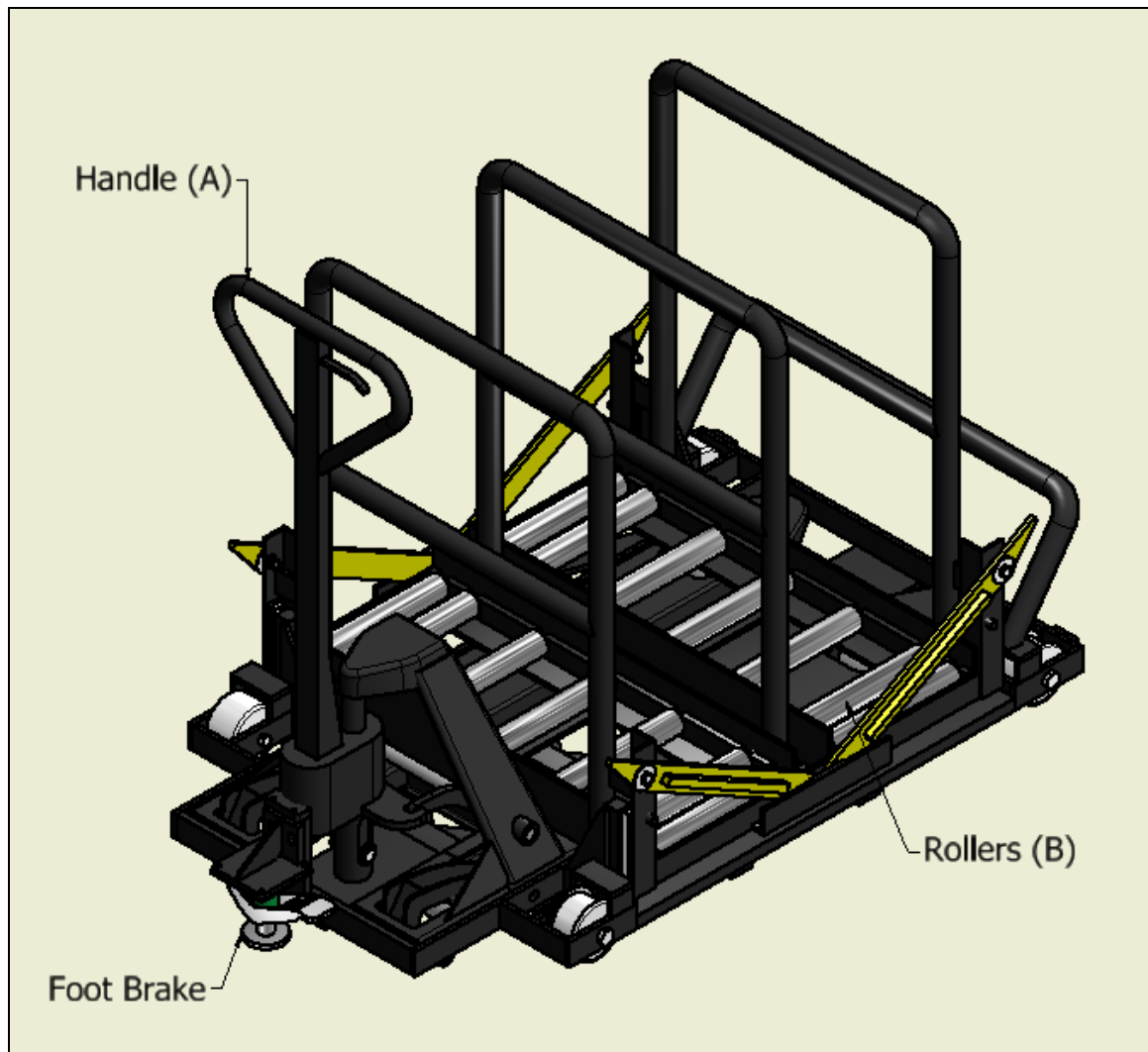
Align the forklift truck with the front of the height adjustable transfer unit with pallet truck. The empty space with the tapered rollers should be facing the battery on the forklift truck, when they are aligned push the lever down on the foot brake (the lever is shown with the word down on it) to put the brake on to stop the transfer unit from moving. Raise the battery stop arm that is facing the battery on the forklift truck; ensure all other battery stop arms are in the down position. The roller height on the height adjustable transfer unit may need altering depending on the truck that is been used, push the lever on the right hand side of the pallet truck handle down and pump the handle up and down to raise the height and pull the handle up to lower the height. Pull the battery from the forklift truck onto the rollers of the height adjustable transfer unit. Lower the raised battery stop arm in order to lock the battery onto the height adjustable transfer unit (this action must be performed before the height adjustable transfer unit is moved).

Push the lever down (this lever is marked with the word up) on the foot brake to release the brake. Move the height adjustable transfer unit with pallet truck along the charging rack until opposite desired battery. Align the height adjustable transfer unit using the empty space with tapered rollers facing the charging rack then push the lever down on the foot brake to put the brake on so that the height adjustable transfer unit will not move. Raise the battery stop arm facing the desired battery. Disengage the plug from the charger then pull the battery from the charger rack onto the height adjustable transfer unit rollers. Once the battery is on the height adjustable transfer unit lower battery stop arm to lock battery onto the height adjustable transfer unit.

Release the foot brake by pushing the lever down, then push the height adjustable transfer unit along the guide rail until the battery that was taken off the forklift truck is aligned with the empty space on the charging rack and push the lever on the foot brake to put the brake on. Lift the battery stop arm and push the battery from the height adjustable transfer unit onto the charging rack. Connect the charging plug to the spent battery.

Lower the battery stop arm before moving the height adjustable transfer unit. Release the brake and push the height adjustable transfer unit along the guide rail until the battery is aligned with the forklift truck then push the lever on the foot brake. Raise the battery stop arm and push the battery onto the forklift truck. Lower the raised battery stop arm, release the brake and move the height adjustable transfer unit into the parked position at the end of the rails against the stops. Connect the forklift truck plug to the charged battery and the operation will be complete.

Roller Height And Tilt Adjustment Method



IMPORTANT

To adjust the height of the rollers (B) simply push the lever down on the right hand side of the pallet truck handle (A) and pump the handle up and down this will raise the rollers and to lower the rollers simply pull the same lever up.

Maintenance And Repair Instructions

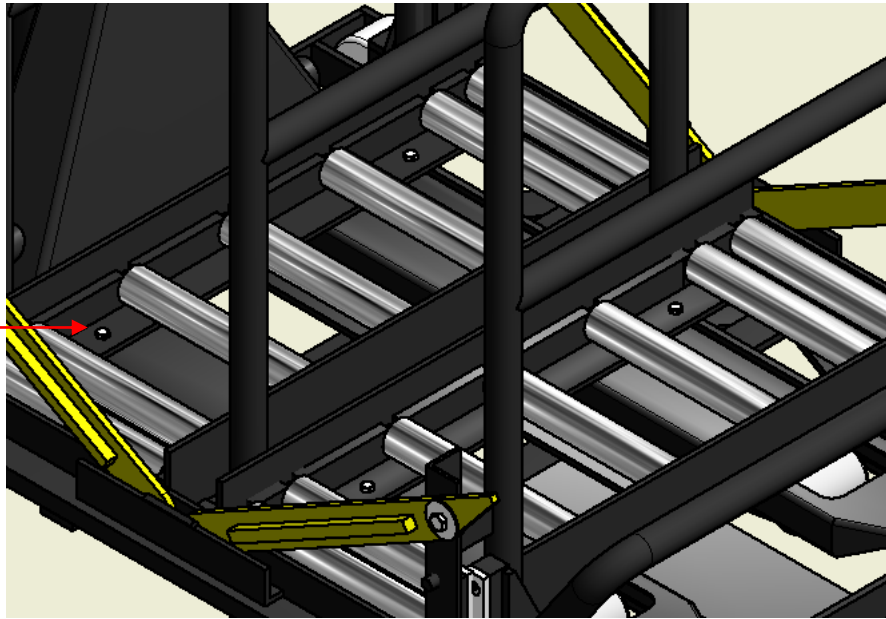
Maintenance List

Daily	Weekly	End users	Maintenance Checks - All Inspection Results Must Be Documented And Retained During The Lifespan Of The Unit.
•			Any Faults Defects Must Be Reported To HOPPECKE Immediately - Cease Using The Equipment
•			Check rollers for wear or damage. At first sign of wear/damage do not use, replace with approved parts from HOPPECKE
	•		Check machined wheels and wheel pins for wear or damage. At first sign of wear/damage do not use, replace with approved parts from HOPPECKE
	•		Check foot brake for wear or damage. At first sign of wear/damage do not use, replace with approved parts from HOPPECKE
	•		Check drop arms function correctly / At first sign of wear/damage do not use, replace with approved parts from HOPPECKE
	•		Check hand pallet truck for wear/damage. Replacement parts for this item are available from HOPPECKE

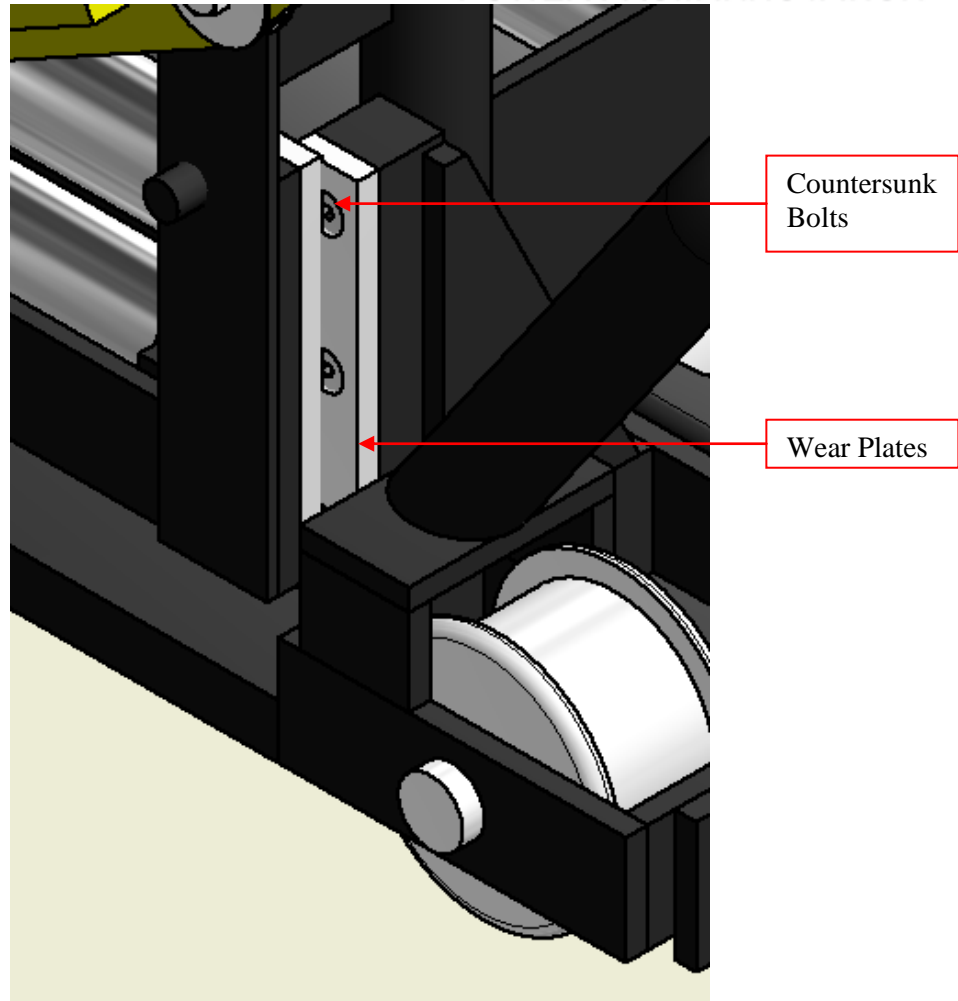
Repair Instructions

Repairing the transfer unit will be easier if it is removed from the guide rail for better access.

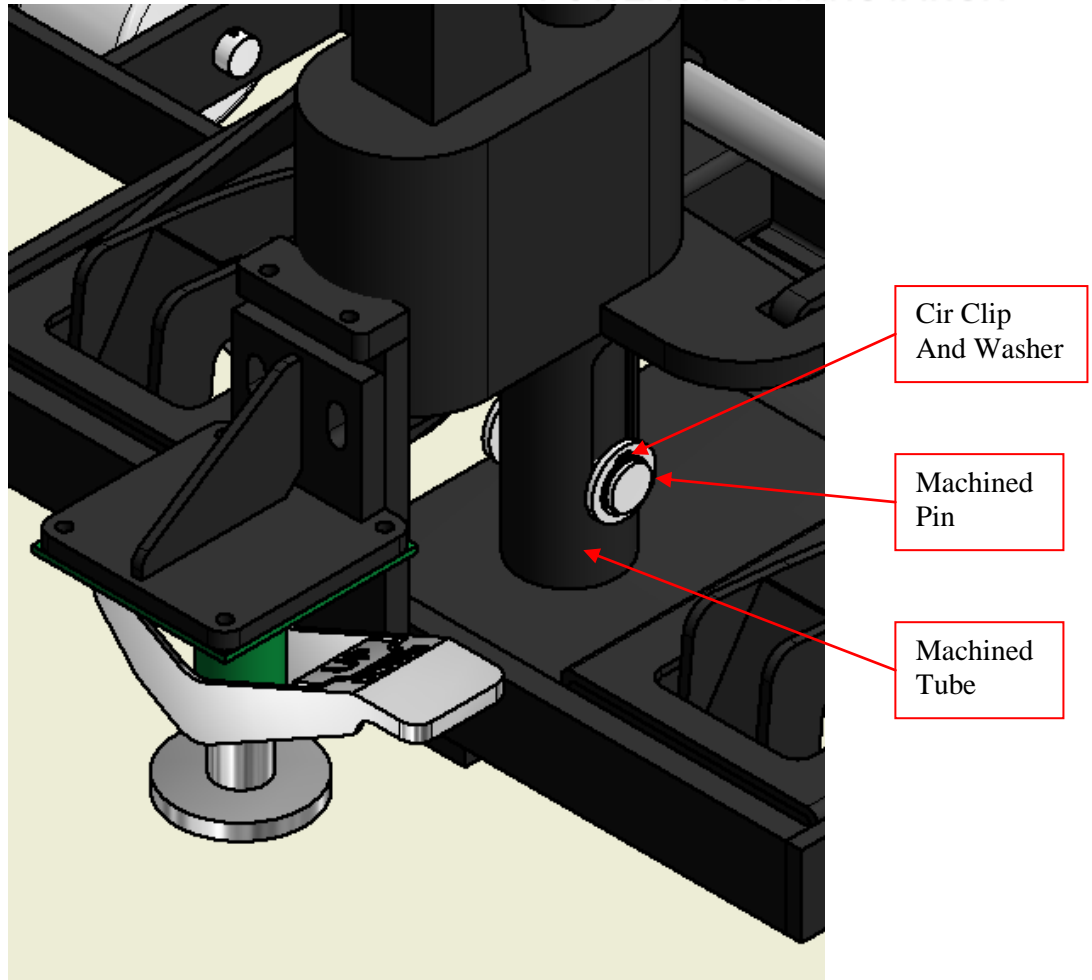
1. To replace any damaged rollers gently knock out with a hammer.
For replacement rollers contact A-Tech Fabrications Ltd.
2. To replace a battery stop arm pull the split pin out of the bolt and place it to one side then using two spanners loosen the nut and bolt and remove it from the stop arm, there will also be 3 off M10 washers on each arm. Align the hole in the new battery stop arm with the hole in the angle support and put the bolt through the holes making sure to have a machined washer on the outside, a machined washer in between the arm and the angle then a washer on the back, then put the nyloc nut on and tighten it up with two spanners and put the split pin through the hole in the bolt. For replacement arm and/or fixings contact A-Tech Fabrications Ltd.
3. To replace the machined wheels pull the split pin out of the wheel pin and gently hammer the wheel pin out through the wheel and wheel housing. Align the new-machined wheel in the wheel housing and gently hammer the wheel pin through then put the split pin through the hole.
4. To replace the wear plates the roller carriage needs to be taken out first. To remove the roller carriage the forks need to be lifted all the way to the top for access, the 4 off nuts and bolts that go through the plates and forks of the pallet truck need to be removed, the roller carriage can now be removed. To remove the roller carriage you will need to use a forklift truck, drive the forks of the forklift truck through the three handles and lift the forks up, place the roller carriage to one side. The wear plates on the roller carriage and the lower carriage will be accessible, using an allen key remove the 3 off countersunk bolts in each wear plate. Align the new wear plate with its housing and put the 3 off countersunk bolts back in using an allen key. Then gently lift the roller carriage back up and place it onto the forks of the pallet truck, align the holes and put the nuts and bolts back through the plates and forks and make sure to tighten them securely.



4 Off Bolts To
Remove Roller
Carriage



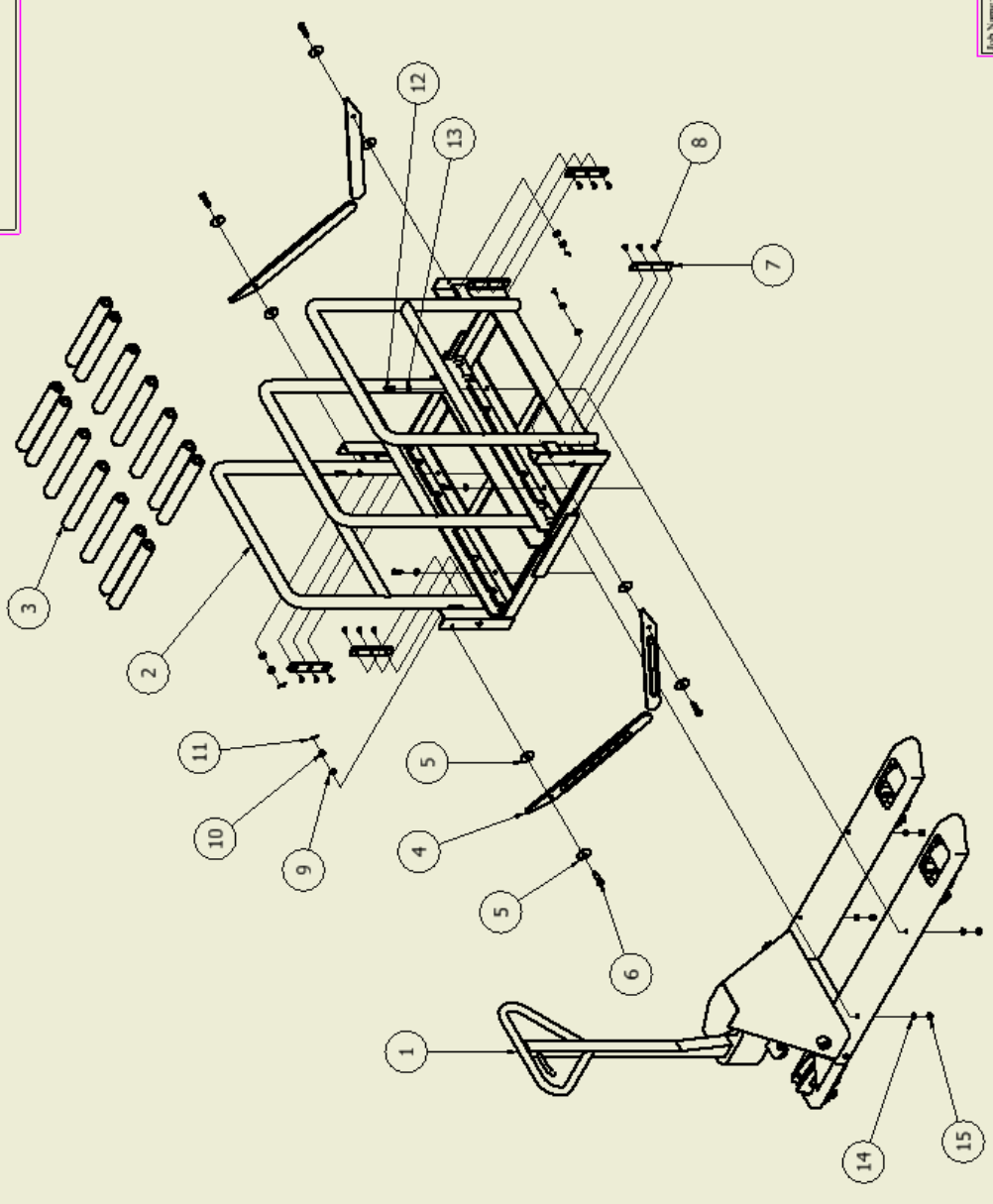
5. To replace the pallet truck firstly remove the roller carriage by taking out the 4 off nuts and bolts from the plates and forks and lift the roller carriage with a forklift truck and place it out of the way. Then remove the rear location pin, to do this remove the cir clip and washer from the machined pin, the pin can now be removed. The pallet truck can now be lifted out. Align the new pallet truck in the wheel housing base frame and when lowering the pallet truck make sure the pin on the hydraulic pump goes inside the machined tube on the base frame. When located correctly push the machined pin through the machined tube and put the washer and cir clip on.



Exploded Drawings

Customer: _____

JOB NO: _____



Job Name: _____

Description: TU-96APT

REV	DESCRIPTION	INT:	DATE:	REV	DATE:	INT:	DATE:	DESCRIPTION	DATE:	APPROVER:	DATE:	SCALE:	DESCRIPTION
A				D								NTS	TU-96APT
B				L									WARNING: DRUG, MATERIAL HARMFUL TO HEALTH
C				P									PLATED

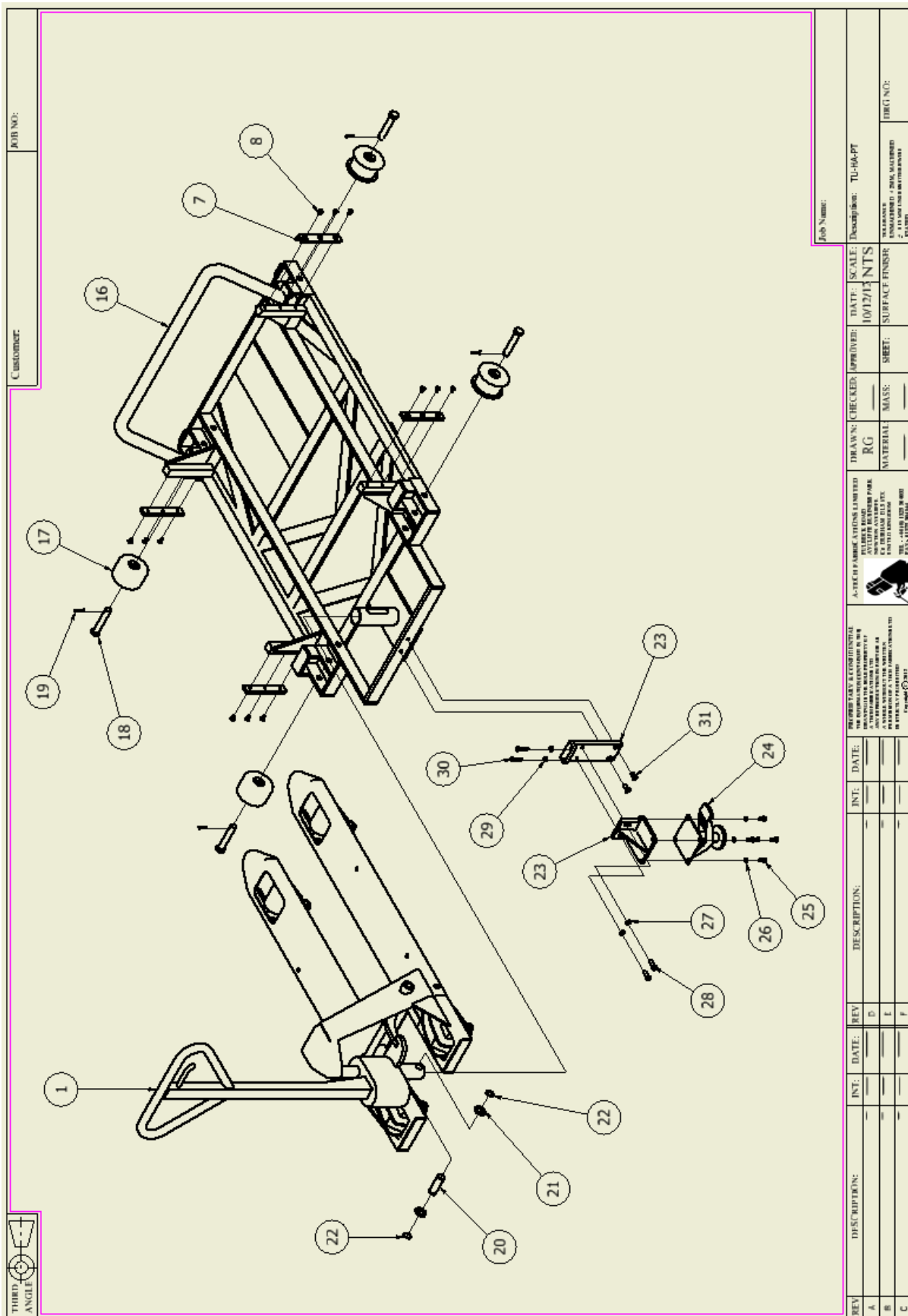
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REGISTERED TRADE MARKS
 HOPPECKE, HOPPECKE LOGO, HOPPECKE POWER FROM INNOVATION

AWARDS
 HOPPECKE HAS BEEN AWARDED THE FOLLOWING AWARDS:

- 2011 PRODUCT DESIGN AWARD
- 2012 PRODUCT DESIGN AWARD
- 2013 PRODUCT DESIGN AWARD
- 2014 PRODUCT DESIGN AWARD
- 2015 PRODUCT DESIGN AWARD
- 2016 PRODUCT DESIGN AWARD
- 2017 PRODUCT DESIGN AWARD
- 2018 PRODUCT DESIGN AWARD
- 2019 PRODUCT DESIGN AWARD
- 2020 PRODUCT DESIGN AWARD
- 2021 PRODUCT DESIGN AWARD



JOB NO:

Customer:

Job Name:

DESCRIPTION: TU-66-PT
DATE: 10/12/13 NTS
DRAWN: RG
CHECKED: _____
APPROVED: _____
MATERIAL: _____
MASS: _____
SHEET: _____
SURFACE FINISH: _____
DWG NO:

APPROVED BY: _____
DATE: _____
DESCRIPTION: _____
REV: _____
DATE: _____
INT: _____

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DATE: 10/12/13
PAGE: 1 OF 1

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Parts List

Index No.	Description	Quantity
1	Special A-Tech Pallet Truck	1
2	Roller Frame Work	1
3	Machined Rollers	14
4	Drop Arms	4
5	Machined Washers	8
6	M12 x 45 Set Screws BZP	4
7	30 x 10 Gauge Plate	8
8	M8 x 15 Countersunk Screw BZP	24
9	M12 Washer BZP	4
10	M12 Nyloc Nut	4
11	3mm x 25mm Long Cotter Pin	4
12	M10 x 35 Set Screws BZP	4
13	M10 Washer BZP	4
14	M10 Washer BZP	4
15	M10 Nyloc Nut	4
16	Base Frame	1
17	Machined Wheels (2No. Flat And 2No. Grooved)	4
18	Machined Pin Axles	4
19	3mm x 30mm Long Cotter Pin	4
20	Machined Pin	1
21	Machined Washers	2
22	25mm Shaft Cir clip	2
23	Foot Brake Housing	1
24	Foot Brake	1
25	M8 x 20 Set Screws BZP	4
26	M8 Spring Washer S/C	4
27	M10 Spring Washer S/C	2
28	M10 x 30 Set Screw BZP	2
29	M8 Nut BZP	2
30	M8 x 40 Set Screw BZP	2
31	M10 x 25 Countersunk Screw BZP	2
32	M20 Washer BZP	16