



TS-1242 RADIAL TELESCOPIC

**Product User Manual for the Safe Use, Operation and Maintenance off your
TELESTACK EQUIPMENT**

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Customer: Centristic/Burrows

Version: 1

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***PLEASE READ THE MANUAL BEFORE UNLOADING, SETTING UP, OR
OPERATING***

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1. INTRODUCTION

1.1 CUSTOMER INFORMATION

Telestack appreciates your decision to purchase the **TS-1242 RADIAL CONVEYOR**,

Our number one priority is user safety; please take the time to read this manual before attempting to operate the machine. It is essential that all operators have read and understood how to operate this equipment in a safe and responsible manner.

Safety Alert Symbol



This safety alert symbol is used throughout the manual to alert you to the potential risk to personal injury. Always obey this symbol and the specific message that follows.

1.2 CONTACT DETAILS

TELESTACK LTD

BANKMORE WAY EAST

OMAGH

CO, TYRONE

BT79 0NZ

TEL: +44 (0) 28812421100

FAX: +44 (0) 28812422211

Email – info@telestack.com



The Operator must read and understand all the instructions in this manual before operating the machine.

1.3 INTENDED USE

The TS 1242 Radial is a fully mobile conveyor designed to work at production rates of up to 1200tph with a material size of 2mm. The machine is typically used in the applications below, if you wish to use it for any other material or applications contact your dealer or us directly.

Otherwise never use this equipment for any application that it has not been specifically tailored to work with. Failure to do so will place the machine outside our standard warranty conditions and can render your warranty void.

1.4 TYPICAL APPLICATIONS

- Stockpiling from secondary crushers and screens.
- Stockpiling crushed stone, sand and gravel, mineral ores.
- Stockpiling construction and demolition waste, top soil, coal, grain etc.
- Receiving crushed material and stockpiling safely over a quarry face/bench.
- Working as part of a mobile system on short to medium term projects.
- Ship and truck loading.

TELESTACK LIMITED

WARRANTY DEPARTMENT (warranty@telestack.com)
Bankmore Way East, Omagh, Co. Tyrone, N Ireland, BT79 0NZ,
Telephone: +44 (0) 2882 251100 Fax: +44 (0) 2882 252211

1.5 VALIDATION REPORT IMPORTANT!

This is your **WARRANTY VALIDATION REPORT** and it must be completed and returned to Telestack Limited within 5 days of the machine being put into service in order to start warranty cover on your Telestack equipment. Please complete all information carefully and completely, then sign and return this form to the above address or by e-mail to warranty@telestack.com

Model _____ **Serial Nr :** _____

Date Equipment Was Put into Service: _____

<u>CUSTOMER</u>	Name: _____	Address: _____
	City: _____	Country: _____ Area Code: _____
	Phone Nr: _____	Contact: _____
<u>DEALER</u>	Name: _____	Address: _____
	City: _____	Country: _____ Area Code: _____

START-UP PROCEDURE CHECK LIST

(To be completed by Dealer/Serviceman)

**Please tick
each box**

Engine Make:-

Engine Model:

Engine Serial Nr:

Customer has been instructed on operation and all safety aspects of operating and maintaining the equipment

Customer has been furnished with all Parts, Maintenance and Instruction Manuals

Customer has been instructed on equipment maintenance schedules and procedures

All Operation and Warning Decals are properly displayed on the equipment

Equipment was observed under actual working conditions for at least _____ hour(s)

Customer has been furnished with the Telestack Ltd's "Limited Product Warranty" statement

Comments: _____

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I have inspected this equipment and find it in good working order; to the best of my knowledge, the customer and his personnel are well versed on the above procedures.

Signed: _____ NAME: _____
Dealer/ Serviceman (Print name)

CUSTOMER AGREEMENT

I agree the equipment has been thoroughly serviced and checked by the above named representative and I am satisfied with his instructions and inspection. I have been provided with a copy of the Telestack Equipment Limited Product Warranty Statement and agree to its terms.

Signed: _____ NAME: _____
Customer (Print name)

2 SAFETY INSTRUCTIONS

2.1 CLASSIFICATION OF HAZARD

Please note that there is a multi-tier hazard classification system, this is used throughout the manual to communicate the severity of danger posed at any time. (See below)



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION when used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided may result in property damage.

Figure 2.1 HAZARD IDENTIFICATION

Make sure all operators are aware and fully understand the dangers indicated by each safety decal.

Individual replacements decals can be supplied by Telestack, where possible quote the part number on the bottom right of each sticker. A full decal kit can be ordered for the machine.

It is not possible for Telestack to fully assess every operating condition under which the machine will be used in the field, and therefore Telestack cannot take responsibility for every danger posed onsite. The decals supplied therefore will not be fully inclusive of all the risks likely to be presented.

2.2 CUSTOMER RESPONSIBILITY

It is the responsibility of the customer/end user to ensure, before operation, that all personnel who will operate this equipment are trained in the safe and correct use of the equipment and that the equipment is fit for purpose, maintained in accordance with the guidance given in this manual and all protective equipment is fitted correctly and in working condition. Before permitting operation of the equipment the customer/end user **MUST** ensure that the operators;

1. Have received adequate training in the specific task to be carried out.
2. Have read and fully understood the safety instructions and procedures contained in the Telestack Operation manual.
3. Know the location of and understand the safety signs on the machine.
4. Be aware of the location and operation of all the safety features on the machine, i.e. Emergency Stops.
5. Be aware of the position of all moving parts and associated risks.

In addition;

- Customers/ Users are responsible for operating and maintaining the **TS-1242** in accordance with local/ State law.
- Customers/Users have the responsibility to check and maintain this equipment daily, reporting any faults / hazards. Failure to have them replaced or repaired immediately can result in serious injury or death.(See section on Maintenance for more detail)
- The Customer has a responsibility to use genuine manufacture spare parts in order to maintain the machinery in a safe working condition, failure to do so may void the warranty.
- The Customer/User has the responsibility to keep the work area free from potential hazards i.e. overhead electric lines. Where this is not practicable, a risk assessment must be carried out and adequate measures put in place to reduce the exposure to risk to an acceptable level.

2.3 GENERAL SAFETY GUIDANCE

As general safe working practice, the following procedures should be observed at all times before and during operation of this machine. Additional precautions may be necessary to ensure site safety and compliance with local regulations. If you are in doubt ask for local health and safety regulations, never assume anything.

- The Telestack Operation Manual **MUST** be read and understood before operating this machine. Particular attention should be paid to the safety and warning signs on the machine.
- Before the machine is started, It is the responsibility of the operator to ensure that there is no-one on or around the machine or likely to be injured when the machine starts.
- Always follow local lockout procedures when working on the machine. See below for general guidance.
- Ensure all control levers are in the neutral position before starting the machine. It is recommended that all control levers are left in the neutral position when stopping the machine to avoid inadvertent movement on the next startup.
- Check all electrical connections are fitted correctly and in good condition.
- Only use remote stop buttons in emergency situations or while carrying out safety checks.
- Operate this machine with extreme care and only in accordance with the methods specified in this manual.
- Do not start an engine in an enclosed space or in an area with inadequate ventilation. Exhaust fumes from internal combustion engines can kill.
- The standards of maintenance, safety, and operation set out in this manual should be considered minimum standards. Exercise extreme care in the use and maintenance of your conveyor. Repairing and replacing wearing parts in good time is always cheaper in the long term.
- Perform the daily safety checks and maintenance as detailed below before operation of the machine. Inspect all 'wear points' and safety-related devices regularly.
- Ensure only trained, competent personnel operate and maintain this equipment
- Do not operate in high winds

- Always wear the correct protective equipment.
- Do not wear baggy clothes or jewellery when operating this equipment.
- Only material that has been specified for use may be transferred, if changing materials contact your dealer for advice.
- Check the condition of all guards daily; replace damaged or missing ones immediately.
- Keep away from overhead electric lines where possible.
- Do not attempt to operate under the influence of alcohol or drugs.
- Do not transport the machine while in a raised position.
- Replace all damaged safety signs as soon as practicable.
- To minimise the risk of personnel injury, when working close to moving parts ensure that they are stopped and the power supply is isolated before commencement of the work. Site lockout procedures must be followed in addition to the guidance given in the Telestack manual.

Telestack equipment is designed with the safety of all personnel in mind. Never attempt to change, modify, eliminate or bypass any of the safety devices installed at the factory.

Guards, covers and shields installed around moving parts at the factory are designed and fitted to prevent accidental injury to operators and other personnel. **THE MACHINE MUST NOT BE OPERATED WITHOUT THE GUARDING IN PLACE.** Make sure that everyone working on or near this equipment is familiar with the relevant safety precautions.

2.4 PRE-START CHECKS

The following checks **MUST** be carried before commencement of work with the machine every day. These should be considered a minimum, site operating procedures and local regulations may well dictate further checks.

- Visually check, verify and record that all guards, covers and doors are in position and secure.

- Make sure all warning and safety signs are clean and legible. See below for their positions.
- Check, test and record that all safety equipment, alarms and interlocks are operative.
- Check conveyor belts for damage and fraying, Check that all conveyor rollers are free to rotate
- Visually check the condition of all hydraulic hoses and connectors for fraying and leaks.
- Check the engine oil level and top up if necessary.
- Check the fuel oil level and top up if necessary.
- Check the hydraulic oil level and top up if necessary. The reason for a low level should also be found.
- Visually check all the pins, bolts and fasteners on the machine are present and correctly fitted.
- Check for material buildup on the conveyor frame which may become dislodged in operation causing a hazard. See the section on stability.
- It is important that the machine is not started up with large amounts of material lodged in the feed boot which may become dislodged and cause an instantaneous increase in mass traveling up the conveyor which may lead to an unstable machine. Material lodged in the feed boot **MUST** be cleared prior to operating the machine
- Perform a visual check on all exposed electrical equipment, paying particular attention to apparent damage to cables or connectors.

2.5 LOCKOUT GUIDANCE

Although the exact details of a safe system of work may vary, based on site characteristics (such as the nature of the application, throughput, loading characteristics power supply etc) it should include physically isolating and locking off the conveyor and all ancillary equipment. This should involve locking off the electrical isolator, attaching a personal padlock and releasing all stored energy in the system before commencing work. Then follow an established formal method of working e.g. written procedures, permit to work, etc.

The basic principle is comprised of five separate steps:

1. LOCK
2. ISOLATE
3. TAG
4. TEST

5. CHECK

It is important to note that in addition to electrical systems, safe systems of work should extend to cover the mechanical and hydraulic systems. In particular;

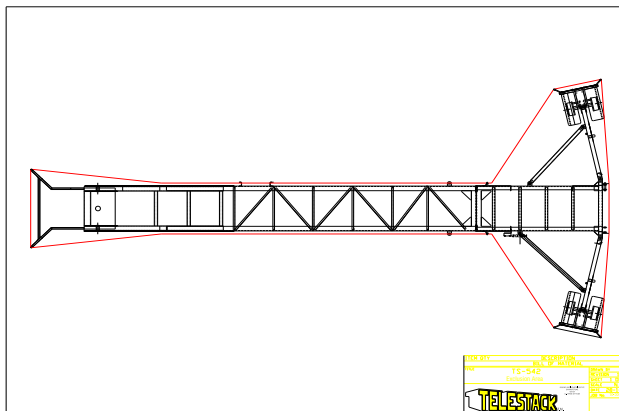
- Powered rams, mechanical springs etc, held in compression can release suddenly, causing impact or crush injury.
- Removing hydraulic fluid, mechanical components or even material causing a blockage can cause parts to move under gravity with the attendant increased risk of personal injury and machine damage.

2.6 WORK AREA SAFETY

- Keep the work area as neat and tidy as practical
- Keep all product safety signs clean and legible. Replace any damaged or missing safety signs as soon as practicable.
- Make sure all electrical equipment is properly grounded. Wet spots near electrical current are especially dangerous
- Store flammable fuels, solvents and gases in a secure and well ventilated area. Never allow fumes to accumulate in storage area. Use non-flammable solvents for cleaning parts and equipment where possible
- Be alert and wary around any pressurized system, hydraulic or pneumatic. High pressure oils and gases are very dangerous.

2.7 EXCLUSION AREAS AROUND THE MACHINE

Under normal working conditions, no-one is permitted to enter the area inside the pull cord as shown below marked in red.



EXCLUSION AREA

2.8 PROTECTIVE CLOTHING

Ensure proper protective clothing is worn at all times. The basic minimum requirement for CE approved equipment is set out below;

- Hard Hat
- Safety Glasses
- Ear Protection
- Close fitting overalls
- Steel toe cap boots
- High Visibility clothing
- Gloves

2.9 ELECTRICAL SAFETY

The equipment detailed in this manual contains voltages from 12 Volts DC to 415 VAC, and local safety procedures must be strictly adhered to. Serious injury can result from the misuse or the incorrect installation of electrical equipment and it is imperative that local electrical regulations are followed when drawing up the site safe working practices for the machine. As general safe working practice, the following procedures are given as guidance and should be observed at all times when using or carrying out electrical work on the machine. Again, these are minimum standards only.

- Electrical work must only be carried out by a qualified electrician. What constitutes qualification is normally controlled by local regulations
- In addition, work on the electrical system must only be carried out by individuals with a full understanding of the electrical system.
- Special care should be taken when disconnecting, replacing or charging batteries.
- Ensure batteries are disconnected and reconnected correctly. Note: Inadvertent short circuiting across the battery terminals can cause the battery to explode.
- Always disconnect battery leads before carrying out any maintenance to the electrical system. To avoid damage to electrical components, always isolate the batteries and electrical system when welding on the machine frame.
- Batteries contain sulphuric acid, which can cause severe burns. Avoid contact with the skin, eyes or clothing. The normal charging produces explosive gases, keep the battery area well ventilated at all times and do not allow sparks or naked flames nearby.
- Regular inspections of all the electrical equipment must be carried out. Any damaged cables, components or loose connections must be repaired before continuing to operate the machine. Use only the manufacturer's genuine replacement parts when performing maintenance work.
- Use only original fuses with the specified current rating

- Modification to any part of the electrical system on this machine can cause the machine to operate in an unsafe manner. No such modifications should be carried out without prior written permission from Telestack Ltd.
- Unauthorised modifications will invalidate the warranty conditions of the electrical system. (Conditions available on request).

2.10 HYDRAULIC SAFETY

- Work on hydraulic equipment must only be carried out by trained personnel. Serious injury or damage to the machine may be caused by not following the guidance in the manual.
- Check all lines, hoses and screwed connections regularly for leaks and obvious damage. Repair any defects found before continuing to operate the machine
- Depressurise all system sections and pressure pipes before carrying out any repair work.
- Always practice extreme cleanliness when servicing hydraulic components. For continued system reliability, it is imperative that no foreign material is introduced to the hydraulic system.
- Hydraulic fluid under pressure can penetrate the skin or eyes causing serious injury. It is important to note that a high velocity stream of fluid capable of causing severe injury may not be visible. Always use a piece of cardboard to check for leaks. Never use your hand.
- The consequences of having fluid injected under the skin are serious. If this happens, it must be surgically removed or gangrene will result.

Trapped air can become compressed when the hydraulic system is started, causing sudden movements of the machine, which can lead to problems resulting in injury or damage. Due to the risks involved of damage to personal and equipment the hydraulic cylinders on Telestack, equipment should be charged on a regular basis. This is also required when there has been maintenance carried out on the hydraulic system and prior to the cylinder function being required when there has been a prolonged period of no use. This is particularly important on conveyor fold over cylinders.

2.11 MANOEUVRING ON SITE

- Make sure that personnel are kept clear when moving the conveyor on site.
- The machine must only be transported with the conveyor fully lowered and retracted
- Avoid manoeuvring the conveyor over extremely uneven ground as damage may occur.
- Make sure that the conveyor is not manoeuvred on a gradient greater than 3 degrees.
- Caution must be exercised when moving machinery on soft or uneven surfaces. It is recommended that machines are not driven nor turned along a slope. To minimise the risk of overbalancing the machines should be only moved vertically up or down shallow slopes.
- Before moving the machine, ensure the siren and beacon are working correctly and that there is no-one on or around the machine or likely to be injured when the machine commences moving.
- Always adjust your speed to an appropriate level when travelling in uneven terrain
- When working with or moving the machine, always maintain a safe distance from overhead electric lines. If work is to be carried out close to overhead lines, the working equipment must be kept at least the minimum recommended distance away from them. Know and practice the prescribed safety distances from high voltage cables as governed by local regulations. If your machine does come into contact with a live cable, the cable must be isolated before continuing to operate the machine. Warn others against approaching and touching the machine before the area is made safe. Investigate and report all incidents to the site manager

2.12 EMERGENCY SHUTDOWN PROCEDURE

Activation of any of the remote stop pushbuttons located around the machine, on the handheld track control unit or on the radio control handset (when radio control is fitted) will cause the machine to shutdown. Before the machine can be restarted, the button must be released and the control panel reset.

It is not recommended that the emergency stop function is used to stop the machine under normal conditions as the primary function is to stop the machine as quickly as possible without regard to the ease of restarting of the machine.

Daily testing of the emergency shutdown system must be carried out.

The Telestack Conveyor is fitted with 2 emergency stop buttons. Each emergency stop is located on either side of the chassis as shown in Figure below.



3. INSTALLATION

3.1 EQUIPMENT REQUIRED FOR INSTALL.

- 2 x 50 Ton Mobile Crane (Approx. Required 1st Day, 2nd Day and 4th Day)



-
- 1 x Telehandler (Approx. Required 1st Day, 2nd Day and 4th Day)
- 1 x 1/2" Impact Gun (Air or Electric)
- 1 x 3/4" Impact Gun (Air or Electric)
- Socket Set 13mm – 46mm
- Spanner Set 10mm – 46mm
- Access to Engineers/ Fitters Tool Kit i.e. Screw Drivers, Pliers Etc.
- 30mtrs. 12mm (Min) Nylon Rope (To Pull Belts)



3.2 TRANSPORTED BY TRACTOR UNIT

The TELESTACK machine is transported from the factory to site by:

- By 2 standard 40 Foot lorry trailers.

3.3 ASSEMBLY PROCEDURE

3.3.1 MAIN CONVEYOR

1. Set the two conveyor sections one in front of the other on wooden blocks with a gap of approximately 500MM between each section -

2. Lift the head section and move it back to the Counterweights section making sure the top and bottom angles slide inside the counterweight. Line up the holes (8 each side) with the holes in the counterweight. Use the M24 bolts provided to secure the two sections together.

3. Check that all the sections are in line and true then tighten all the bolts using impact gun (air or electric)

4. Fit any outer roller sets to the outer conveyor section. Fit the 10mm wire rope that supports the cables from the inner conveyor.

5. Pull the inner conveyor out of the frame until it is approx $\frac{2}{3}$ the way out and secure using blocks of wood pushed through the frame.

6. Support the outer conveyor belt above the conveyor 4 meters from the head of the Conveyor. Use the 80mm pivot bar shaft (this pivot bar is a component of the machine) and a mobile crane. Tie the ends of the bar to the frame work of the conveyor using rope or straps. Attach a 30 meter rope to the belt. **N.B. Make sure that the belt is the correct way up.**

Take the rope to the rear of the machine and tie to the Tele handler. Using the Tele handler slowly pull the belt towards the rear of the machine, when the belt has reached the rear drum, untie the rope from the Tele handler. Thread the rope over the return rollers and pull it to the front of the machine. Move the Tele

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handler to the front of the machine, attach the rope and pull the rest of the belt through. Use the crane to lift the 6 meters of belt that is now in front of the head drum back over onto the top.

7. The belt is now ready for vulcanizing and it is advised that this is done prior to lifting the conveyor onto the under - carriage.

8. Repeat step 7 and 8 for the inner conveyor belt

3.3.2 UNDER CARRAIGE

1. Attach the mobile crane to the top section of the under – carriage (as it came out of the container) remove any transport fixing plates and lift the section off. Using the mobile crane turn this section over (it was turned upside down for containerization).

2. Set the two sections of the under-carriage one in front of the other on blocks of wood at the side of the main conveyor section leaving a space of about 2 meters. Ensure that the tail end (narrow section with pivot holes) is roughly inline with the pivot holes in the counter-weight section of the main conveyor.

3. Lift the front section of the under-carriage and line it up with the holes with those in the back section and secure with the M20 bolts provided. Use an impact gun to tighten all bolts.

4. Lift the two radial arms into position and secure with the pins and collars provided.

5. Swing the radial arms out to each side and lift the telescopic trestle into position. Secure the telescopic trestle to the under carriage with the pins provided.

6. Attach all hydraulic pipes to jacklegs, lifting rams and wheel drive.

7. Unroll electrical cables into the cable trays towards the back.

8. Lift telescopic section, swing radial arms until wheels are facing forward and lower the telescopic section so that it rests on the wheels.

3.3.3 MAIN LIFT

1. Fit sheave pulley assembly to the fixing points underneath the front of the main conveyor. Thread the unfixed wire rope along the frame and round the sheave pulley and fix this to the fixing point on the inner conveyor.

2. Position the pivot base at the rear of the under-carriage so that the holes line up with the holes in the under-carriage.

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3. Lift the main conveyor section using the lifting points at the Counterweight and the main lifting points on the Conveyor itself. Position the main conveyor over the under-carriage, lower until the pivot holes in the counter-weight line up with the holes in the under-carriage and pivot base, slide the 80MM diameter pivot bar through the holes and secure with the locking rings provided.
4. Lift the front of the conveyor section and using the Tele-handler lift the telescopic section until the holes in the fixing heels line up and can be fixed using the pins provided.
5. Fit the electronic control panel to the channels on the side of the under-carriage.

3.4.4 SNAGGING LIST

1. Check and tighten all bolts and ensure split pins or “r” clips are fitted to all locating pins.
2. Ensure that all electrical plugs are connected at the control panel and at the machine assembly joints.
3. Customer to connect power to control panel.
4. Tighten the wire rope tensioning unit until both springs are fully compresses. Move the inner conveyor full out/ full in checking that all the safety limit switches are working correctly.
5. Take up any slack in the belts with the tail end drum adjusters and start the conveyors. Track the belts so as they run centrally using the adjustment on the roller sets and the return rollers.
6. Locate the machine in its working position.
7. Lower jacklegs, remove transport arm and swing radial arms out to each side and locate with radial linkages. Then lower jacklegs so that the wheels are on the working surface. Attach emergency pull chord around machine.
8. Start conveyors and operate manually (in-out, up-down, left-right) checking that all limit switches, pile high sensors are operating correctly. Stop machine.
9. Start conveyors, and then start machine in auto and check that the program is working correctly (Only if an automated program is installed on the machine).
10. Fit all remaining safety guards (rear covers, side mesh guards etc).
11. Check all nuts and bolts, guard fixings and touch up any damaged paintwork as necessary.

3.4 PROCEDURE FOR MANEUVERING ON SITE

1. Ensure the machine has been shut down by following the shut down procedure.
2. Check that all emergency stop buttons are released.
3. Turn the isolator 'ON' on the control panel.
4. Retract the Inner Conveyor fully.
5. Lower the Conveyor as soon as it is clear of the stockpile or other link conveyor.
6. To lower the conveyor use the raise/lower lever using the raise/lower function on the Control Panel.
7. Raise the Undercarriage so to position the radial arms in transport mode.



- 8 Take care not to raise the undercarriage more than is necessary.
- 9 With the help of another person, remove radial arm securing pin.

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Radial Arm
Securing Pin

10 Push the Radial arms round into transport mode.



11. When both wheels are around into transport mode, replace the Transport bar.

Transport Bar

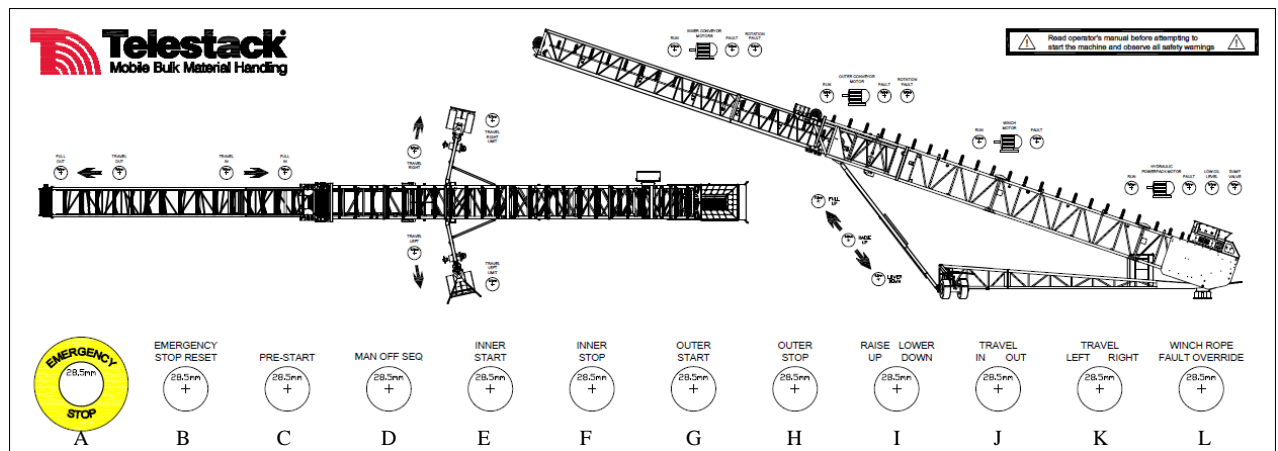


12. Lower the Undercarriage onto the wheels again.

4. OPERATION OF YOUR CONVEYOR

4.1 INTRODUCTION

Proper operation of the conveyor is essential to ensure maximum productivity and safety. The person operating the machine must become familiar with the location and use of each control element on the electrical panel before operating the conveyor. It is also essential that the conveyor is not left unattended at any time whilst in operation.



ITEM	DESCRIPTION	TYPE
A	Emergency Stop	Red Latching Button
B	Emergency Stop Reset	Blue illuminated Push Button
C	Pre-Start Siren	Green illuminated Push Button
D	Manual/Off/Sequence	Black 3 Position Keyswitch
E	Start Inner Conveyor	Green Push Button
F	Stop Inner Conveyor	Red Push Button
G	Start Outer Conveyor	Green Push Button
H	Stop Outer Conveyor	Red Push Button
I	Raise Up/Lower Down	Black 3 Position Spring to Centre Switch
J	Travel In/Travel Out	Black 3 Position Spring to Centre Switch
K	Travel Left/Travel Right	Black 3 Position Spring to Centre Switch
L	Winch Rope Fault Override	Red illuminated Push Button

4.2 LEVEL OF AUTOMATION

This FDS provides a specification for the installation of the controls for the TS-1242 Machine – Centristic UK FDS

4.2.1 MANUAL CONTROL

Firstly switch on the control panel by turning the isolator to the on position. (Please see panel layout for Isolator position). Then check all emergency stop buttons are released on the machine and on the control panel door (A) before you attempt to start the machine. Once these have been checked you can then proceed to push the emergency stop reset button (B) on the control panel door which if healthy when pushed the lamp will go out. If the lamp does not go out then you must re-check the emergency stops again and ensure all contactors in the panel have de-energised, once healthy you may follow the instructions below:

Select manual on the manual/off/sequence switch (D) on the control panel

Radial the machine using the travel left/right switch (K) on the control panel

Raise the machine to the desired position using the up/down switch (I) on the control panel

Extend the inner conveyor in or out using the in/out switch (J) on the control panel

Start the machine by firstly enabling the pre-start siren by pressing the pre-start button (C) on the control panel.

Once the siren is complete the lamp will illuminated on the pre-start siren button

Then the inner conveyor by pressing the start inner conveyor push button (E) on the control panel

Then outer conveyor by pressing the start outer conveyor push button (G) on the control panel

Now the machine is ready and in position so the operator can feed the machine with material

4.2.2 REMOTE CONTROL

Firstly switch on the control panel by turning the isolator to the on position. (Please see panel layout for Isolator position). Then check all emergency stop buttons are released on the machine and on the control panel door (A) before you attempt to start the machine. Once these have been checked you can then proceed to push the emergency stop reset button (B) on the control panel door which if healthy when pushed the lamp will go out. If the lamp does not go out then you must re-check the emergency stops again and ensure all contactors in the panel have de-energised, once healthy you may follow the instructions below:

Select sequence on the manual/off/sequence switch (D) on the control panel

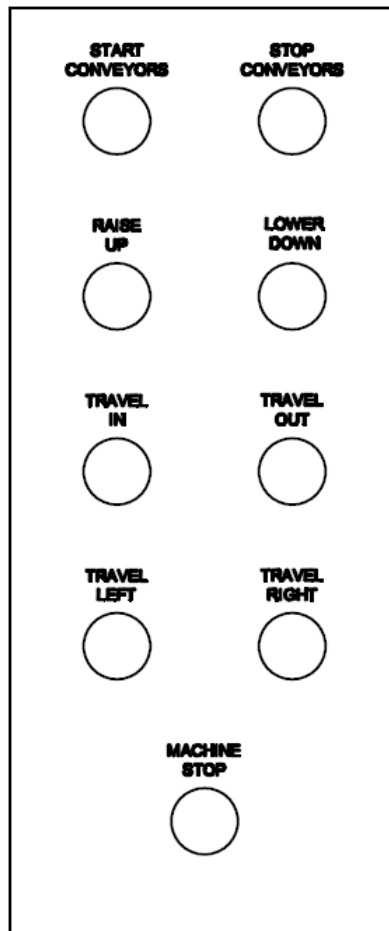
Switch the remote control handheld unit on by pressing the yellow button on bottom of remote control handheld unit

The machine can now be operated as per instructions 2-5 above by use of the remote push buttons

The operator can then start the machine in sequence (once in place) by pressing the start conveyors push button on the remote.

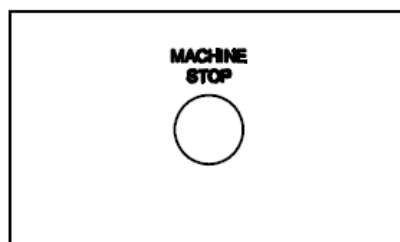
This will automatically start the pre-start siren, then the inner conveyor and finally the outer conveyor. Each of which will have a pre-set time delay between starts.

Operator Remote Control



- 1) The machine stop button on the operator remote control above and on the ship supervisor remote below will stop the completely once pressed in the case of a difficulty arising during operation.
Please note: THIS IS NOT AN EMERGENCY STOP!!!!

Ship Supervisor Remote



4.3 INDICATION / MAINTENANCE / SERVICE

4.3.1 ROPE FAULT OVERRIDE

The rope fault is activated by a limit switch on the machine in the event of the winch rope becoming slack; this will be indicated by a lamp on the control panel door.

In the event of a rope fault in either manual/remote the machine functions will be disabled. To clear the fault you must tighten the rope and reset the starter in the control panel. If the operator needs to access the rope when the machine inner conveyor is extended they may push and hold the rope fault push button (L) to enable retraction of the winch by use of the travel in/out switch (J). This is required to allow maintenance personal access to tighten the rope at the control panel end of the inner boom.

4.3.2 CONTROL PANEL FAULTS

Each breaker/overload in the control panel is monitored by an auxiliary which will when tripped stop the machine and the fault will be indicated on the mimic of the machine on the control panel door.

To reset these faults the control panel must be safely isolated by a competent person the reason for the fault investigated and the breaker/overload reset.

CONTROL PANEL RUN STATUS

Each starter in the control panel has an LED lamp on the mimic of the machine to indicate if it's running.

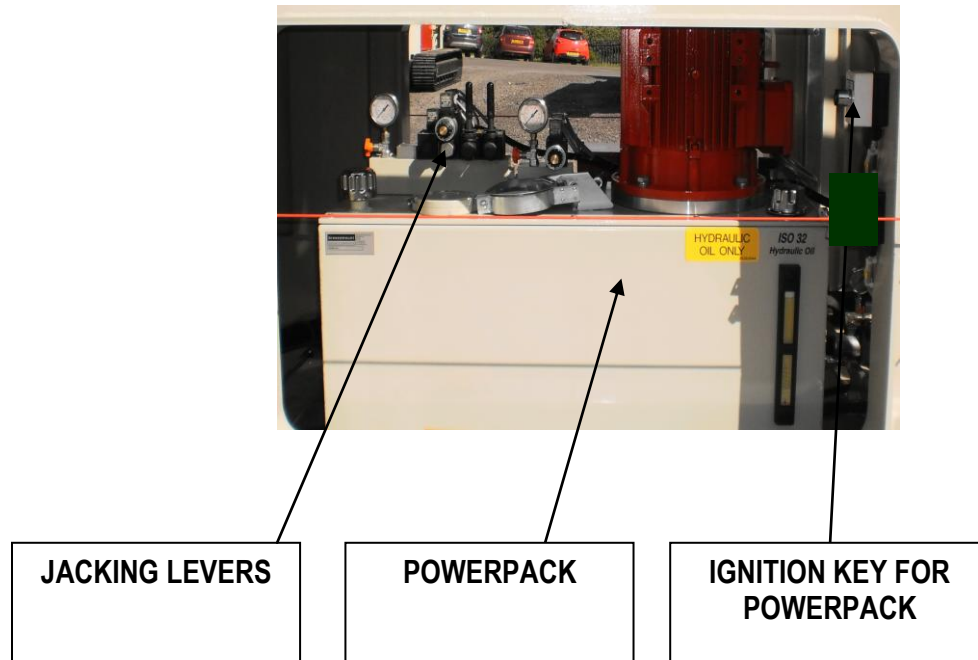
CONTROL PANEL MACHINE POSITIONS

The machine movement and positional limits are all indicated on the mimic of the machine on the control panel door by an LED Lamp.

MOVEMENT SIREN/BEACON

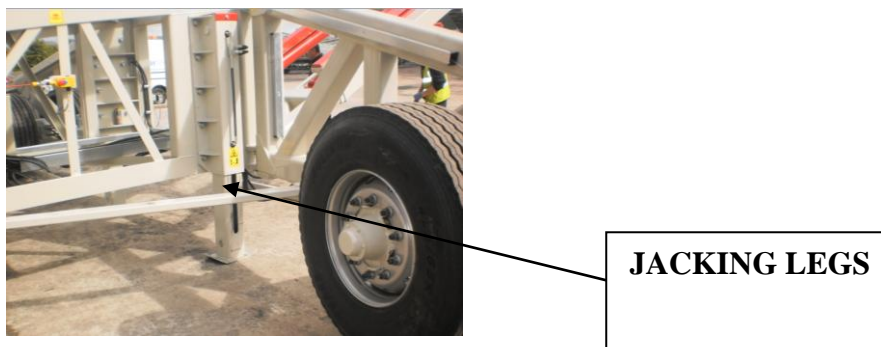
The machine is equipped with a movement siren and beacon which activates when the machine is in operation.

4.4 OPERATING THE JACK LEGS



Select Off on the Manual/Off/Sequence switch (C) on the control panel before commencing the sequence below:

1. Turn the ignition key for the powerpack giving the operator control of the jacking legs.
2. Use the jacking levers to control the jacking legs. They can be operated together or one by one depending on the ground level.
3. When these are in the desired position the operator can turn the ignition switch off and select Manual or Sequence mode on the control panel for operation of the machine.
4. After using the machine the operator can again turn the Manual/Off/Sequence switch back to Off and again turn the ignition key for the powerpack On giving them control of the jacking legs again. They must raise the legs for transport and when finished switch the Powerpack back off again.



4.5 END OF DAY OPERATIONS

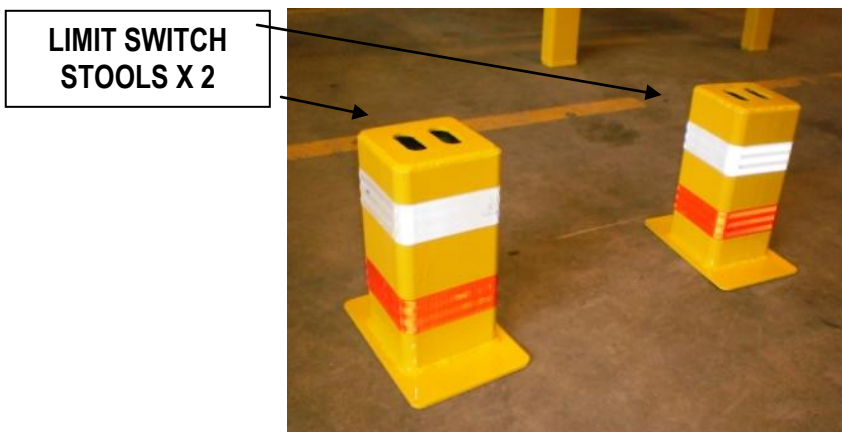
- 1) Ensure that the belts are unloaded. The telescopic conveyor should be run until there is no longer any material coming off the head end. Never leave the machine dormant with material on the belt. The chute should be fully retracted and the manual chute clean push button pressed to clean the filter.
- 2) Whenever possible make sure that the telescopic portion of the conveyor is retracted all the way in and chute retracted.

4.6 SHUTDOWN PROCEDURES

- 1 Stop feed to Conveyor
- 2 Allow belts to run until all are clear of material.
- 3 On the control panel, turn off the conveyors
- 4 On the control panel, turn off the filters
- 5 Turn the Control Panel Isolator 'OFF'.
- 6 Check machine for hazards. I.e. lodged stones etc. and remove before the conveyor is started again.

4.7 STOOLS THAT LIMIT THE RADIAL MOVEMENT

The picture below shows the two stools that are to be positioned generally equal distance apart either side of the conveyor. When the machine is being moved left or right it will travel to the position of the stool before the limit switch is activated and then it must be moved in the opposite direction.



5 TECHNICAL SPECIFICATIONS

5.1 OVERALL DIMENSIONS

- Machine Weight : 37 Tonnes
- Tonnes Per Hour 1200 TPH (TS-1242) @ 1.6T/m³
- Stockpile Capacity : Conical stockpile – 6,200 Tonnes (manual)
- Stockpile Capacity :
 - @ 1° - 261 Tonnes @ 90° – 32,530 Tonnes
 - @ 120° – 40,320 Tonnes @ 270° – 79,589 Tonnes
- Lump Size: 200mm
- Feed-in Height :3.74M

5.2 . STRUCTURAL SPECIFICATIONS

- Main “outer” frame is constructed from 150x150x12mm heavy structural angle. The extendible “inner” lattice truss is constructed using 120x60x6mm Rectangular Hollow Section (RHS).
- The forward support frame (“Hydraulic Under Carriage”) is constructed of 120x120x8mm hollow section and the rear support frame (“Under Carriage”) is fabricated from 150X150X8mm heavy structural angle. The forward support is hydraulically raised and lowered.
- King, pin, counterweight and side plate assemblies are designed to allow ample turning clearance for most 5th wheel tractors. Safety guards at all pinch points are standard.
- Standard accessories include loading hopper, (stone box, or tapered chute) 1500mm wide x 2120mm long, fabricated from 6mm plate with rubber skirting.
- The conveyor mid section is hydraulically raised to allow the wheels to swing from travel mode to radial position. Wide wheelbase in radial position offers great stability during operation while the closed travel position allows for safe highway transportation
- Telescopic motion is provided by a 324mm-dia drum (3 KW motor) and ½” (12.7mm) cable winch package, which moves the conveyor. Approximately 9.1 ft/min (0.05 m/s) (2764Nm, 2.4 Tonnes pull).

5.3. COMPONENT SPECIFICATION

5.3.1 BELTING

Outer conveyor 1200mm wide 800/4 Din K

Inner conveyor 1200mm wide 800/4 Din K

5.3.2 BELT SPEED 2m/s

5.3.3 ROLLERS

Troughing Rollers: Rulmeca 127mm dia, 25mm spindles, JS500 coating

Return Rollers: 2 X Hosch Belt Tracking Rollers & 4x Rubber Lagged Return Rollers.

5.3.4 DRUMS

Outer conveyor tail drum 406mm Crowned

Inner conveyor tail drum 406mm Crowned

All end drums are welded steel, crowned faced, secured by Fenlock hubs on high strength (EN8) steel shafts. All head drums are diamond lagged.

5.3.5 BELT SCRAPER

Secondary Scrapers: Centristic to Supply.

5.3.6 BEARINGS

Outer Head drum bearings, 90mm pillow block bearing

Outer Tail drum bearings 75mm triple seal pillow block bearing, also Inner Head and Tail

5.3.7 ELECTRIC MOTORS

Winch drive motor 3 kw ratio 348.91:1 hollow bore 70mm
H1 mounting IP 55 rating

5.3.8 ELECTRICS & CONTROLS

Electrical Panel is mounted in weather proof enclosure with 415V/380V, 3 phase, 50 Hz, starters with SLC 500 processor allowing the unit to be fully automated or manually operated.

5.3.9 HYDRAULICS

Jack leg cylinders 100mm bore 400mm stroke

Telescopic lift cylinders 127mm bore 1830mm stroke fitted with
safety check valve

11 Kw 3 station Hydraulic Power Pack with 125 lts reservoir
Powers a 8.6 litres/min gear pump at 3000psi

5.3.10 WHEELS

The axle is a specially designed outrigger style framework with 4x385/65/22.5 super single wheels mounted onto standard 10 stud hubs one side & 8 Stud wheel drive unit on the otherside.

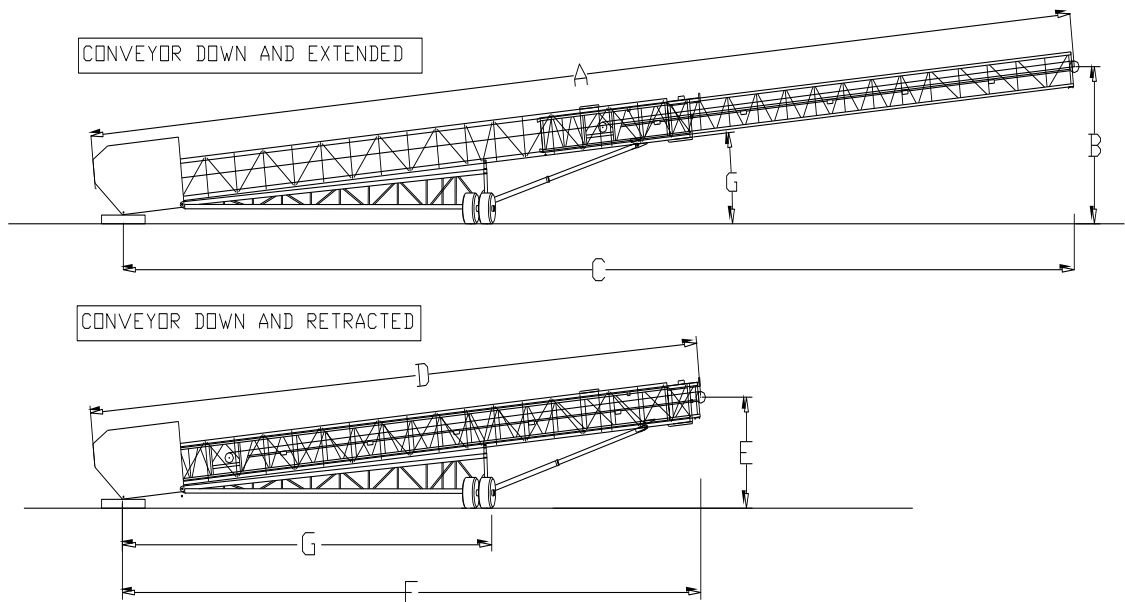
5.3.11 SAFETY

All Telestack machines are safety guarded to BS 7300 as standard, for extra walkways, handrails and safety solutions see options. All machines are fitted with safety grab wire

5.4 STANDARD FINISH

- Shot Blasted
- Primed with 2 Pac Paint
- Cream-RAL- 7032
- Red – RAL-3001
- Thinners No: 6

5.5 GENERAL CONVEYOR DIMENSIONS



Model	A	B	C	D	E	F	G	G angle
TS-1242	42m	7.3m	40m	27.5m	5.4m	25.5m	15m	8m

6. MAINTENANCE

6.1 GENERAL INFORMATION

NOTE; Exercise due care for the environment when carrying out any servicing or repair work. Potentially harmful waste which may arise from working on this equipment includes such items as oil, fuel, coolant, filters and batteries. Improper disposal of waste can damage the environment. Be responsible.

A proper routine for inspection and maintenance will ensure a longer and more reliable service life for your conveyor. The information provided in this section outlines the minimum guidelines for inspection and maintenance and regularly undertaking these guidelines/procedures is an essential part of your obligations for continued warranty cover.

6.1.1 CLEARING BLOCKAGES

Danger: Under no circumstances should the feed boot be accessed when the conveyor or equipment that is feeding the conveyor is in operation.

In the unlikely event of a blockage or excess material build up in the chutes ensure main conveyor power is isolated and machine fully locked out before allowing access. Ensure the operator/maintenance person is wearing Personal Protective Equipment minimum a helmet, goggles and a harness.

When performing maintenance, always observe rules provided in the safety section. Breakdown caused by insufficient or improper maintenance will cause high repair cost and long term downtime. Therefore, regular maintenance is essential.

In addition to other factors, the reliability and life of the Telestack depends on regular and proper maintenance. The following section contains maintenance instructions as well as maintenance schedules for normal operating conditions.

This machine has been designed to facilitate easy routine maintenance, if you find any problems contact your local Telestack dealer who will contact our technical department.

NOTICE

When this Telestack is operated in extreme climate conditions (e.g. below -15°C or above 33°C) or in very dusty conditions for long periods of time, the maintenance schedule will change.

Safety Alert Symbol



Practice safe maintenance

Read and understand all service procedures before performing maintenance or operating this machine.

- Keep all work area clean, dry and free from obstacles.
- Never lubricate clean service or adjust machine while it is running.
- Keep clothing clear from moving parts.

Before performing maintenance or repairs:

- Disengage all power and operate controls to relieve the pressure from the system.
- Stop the engine
- Allow hot parts to cool before servicing.
- Remove all oil / debris before starting to work on the area.

6.2 MAINTENANCE SCHEDULE

6.2.1 DAILY INSPECTION SHEET (EVERY 12hrs)

Maintenance Task	Maintenance Intervals in Operating Hours (hr)						
	Daily / 10 hr	50	200	500	1000	As Requir ed	Page
General Machine							
Check that all guards and covers are in place	●						
Check that safety decals are clear and all fixed in correct position	●						
Perform a visual inspection of structure for damage or distortion	●						
Inspect skirting rubbers and adjust/replace if required	●						
Check belt scrapers and adjust/replace as required	●						
Remove any material build up debris	●						
Check conveyor belts for damage, wear, tension, and position. Adjust/replace if required	●						
Check wear plates for wear and replace as required	●						
Ensure roller sets and return rollers are free moving and clear from material debris	●						
Check grease pot dispensers and replace if required		●					
Check conveyor drive gearbox for oil leaks and oil level. Top up if required.		●					
Replace conveyor gearbox oil						6,000	
Hydraulic System							
Check hydraulic oil level and top up if required			●				
Check for hydraulic leaks on hoses, fittings and components	●						
Check hose route for wear or shaving on other parts. Re-route or replace if required	●						
Charge/Bleed hydraulic cylinders				●			
Replace hydraulic oil and flush system					●		
Check filter blockage indicator, change filter if required	●						
Change return filters after first 100 hrs				●			
Change Suction filters after first 100 hrs				●			
Electrics							
Check track controls operate as required			●				
Check the operation and function of the E-stop system	●						

6.2.2 MONTHLY INSPECTION SHEET (EVERY 180hrs)

To be carried out by a qualified maintenance person, carry out general daily inspection plus the list below.

Object	Job	Remark(s)	Sign	Date
Motor(s)	Fix / Replace			
Gearbox	Fix/ Replace			
Lubrication	Fill if Required			
Conveyor Belt	Adjust/ Replace			
Pulleys	Adjust/ Replace			
Idlers	Adjust/Replace			
Scrapers	Adjust/ Replace			
Wiring	Replace if Damaged			
Hydraulic	Adjust/Replace			

Please use a copy of this to keep a record of maintenance inspections. Routine inspections help to ensure a safer more reliable machine for longer.

Note: This is a minimum amount of maintenance required to be carried out on Telestack equipment, we actively encourage you to put in place extra procedures /guideline in accordance with your company health and safety policy.

6.2.3 LUBRICATION CHART

Detailed is a chart of lubricants recommended by Telestack for different machine elements and ambient temperature ranges.

Machine Element	Lubricant	Ambient Temperature	Trade Name	Grade
Bearings	Grease	-10 °C to +40 °C	EP 1	L-XACGB 1
		-10 °C to +40 °C	EP 2	L-XBDHB 2
		10 °C to +45 °C	HD 220	L-XDGFB 2
Gear Reducers	Gear Oil	-20 °C to +25 °C	Gear Oil 100	ISO VG 100
		-10 °C to +40 °C	Gear Oil 220	ISO VG 220
		0 °C to +45 °C	Gear Oil 460	ISO VG 460
Hydraulic System	Hydraulic Oil	-15 °C to +30 °C	Hydraulic Oil 32	ISO VG 32
		0 °C to +45 °C	Hydraulic Oil 68	ISO VG 68

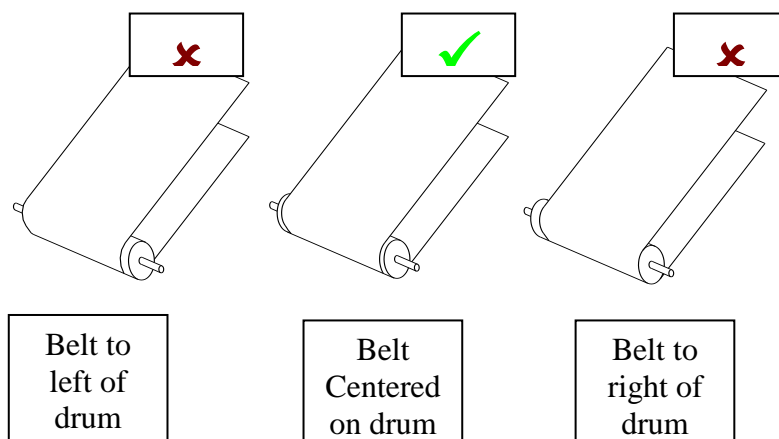
6.3 BELT TRACKING

6.3.1 IDENTIFYING WHICH SIDE OF THE BELT TO TRACK

Your Telestack conveyor will be delivered and commissioned fully tracked. However, in the event that the conveyor belt goes off track, the belt will need to be re-tracked to ensure it is running on the centre of the drums. To check if the belt is tracked, visually inspect the belt position on the drum. If the belt is running in the centre of the drum the belt is perfectly tracked. If the whole belt is not on the drum then the belt needs to be re-tracked.

Make sure before tracking the belt that any deviation in belt travel apparently requiring adjustment is not due to buildup of material on the head or tail drums. Remove buildup and observe the belt while running to ascertain if adjustment is required.

If the whole belt is located to the left side of the drum then it needs to be brought back to the centre. If the whole belt is located to the right side of the drum then it needs to be brought back to the centre. Make sure to maintain correct belt tension when adjusting.



6.3.2 MINIMUM REQUIRMENTS

In order to track the conveyor belt, the following steps must be followed.

- The conveyor structure must be **True** (Straight)
- All pulleys, snub rollers, carrying idlers and return idlers must be **SQUARE** with the frame and **PARALLEL** to each other
- Belt tension must be great enough to prevent slippage at the drive pulley and for the belt to conform to the crown of the pulleys.
- Cleanliness is essential to good tracking i.e. no foreign matter (Build Up) on idlers etc.

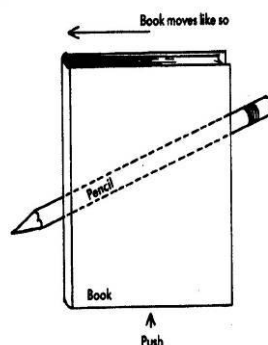
Think:

The '**Handle Bars Principle**'

Face the direction in which the belt is traveling and tap the idlers - as you would turn the handlebars of a bicycle - in the direction you want the belt to go.

- Make sure the belt is tensioned on the tail drum at all times; this can be done by adjusting the bolts lactated at the back on of the machine. (46mm Spanner needed see picture of drum adjuster bolts.
- Be careful not to over compensate with adjustment
- After 'Tapping the idlers' (Fig.5 where the Pencil = the idlers and the Book = the conveyor belt) be sure to let the belt have at least 3 revolutions

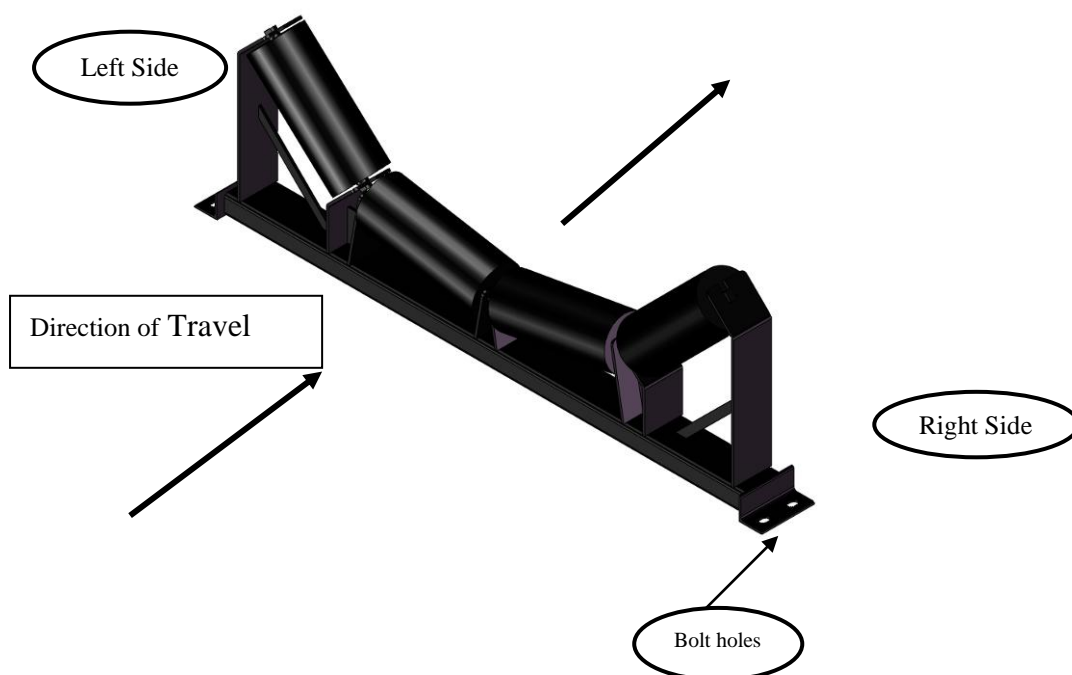
Fig. 5 Primary rule of tracking demonstration



Remember that tracking using the tail drum adjusters can cause long term belt stretch.

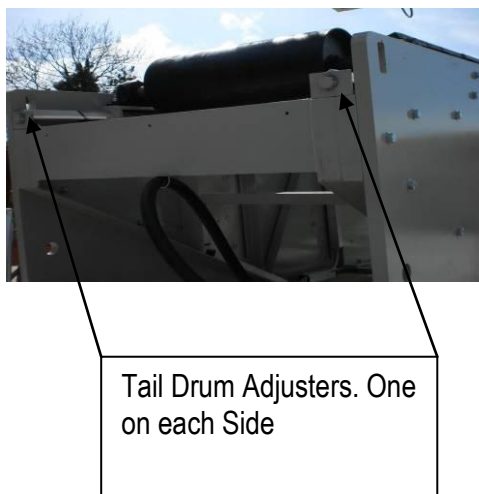
6.4 BELT TRACKING PROCEDURE

- Tracking the belt starts at the return run working towards the tail pulley.
- Loosen the bolts on the roller board and make small adjustment to the left or right until the idlers are in the required position and the belt is running true.(Picture below shows Roller board)



- Allow the belt to travel around at least three times.
- Make sure the belt is tensioned on the tail drum at all times; this can be done by adjusting the bolts located at the back on of the machine. (46mm Spanner needed see picture of drum adjuster bolts.

See Troubleshooting Section for other possible Misalignment Issues & Cures



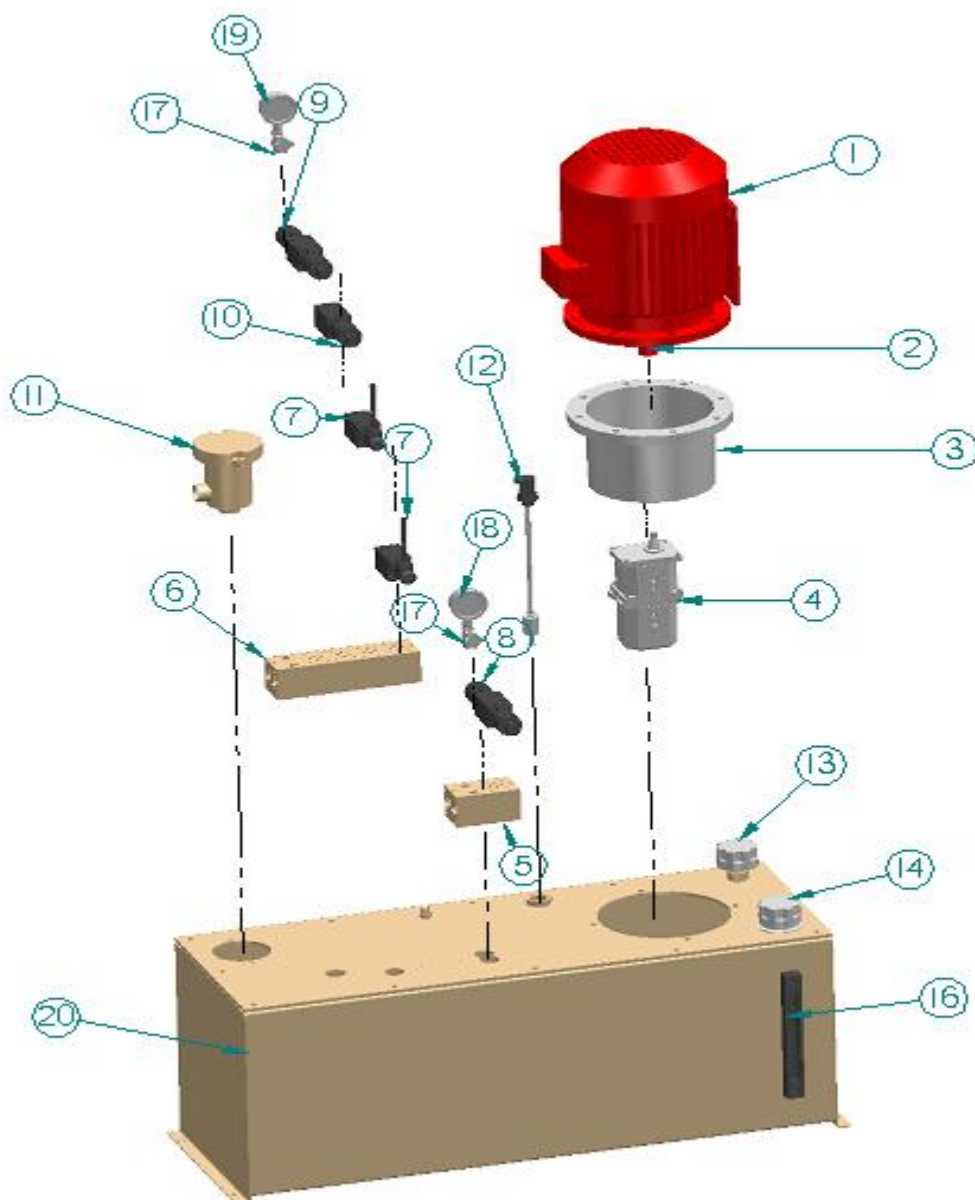
10 signs that a conveyor belt is tracking off

1. Conveyor belt runs true when empty, but tracks off when loaded
2. Conveyor belt runs to one side at a particular point along conveyor
3. One section of belt runs off to one side all along the conveyor
4. Possible wear to edge of belt and conveyor structure
5. A new conveyor belt has erratic action, following no set pattern
6. Conveyor belt runs off at head pulley
7. Conveyor belt runs off at tail pulley
8. Conveyor belt only runs off on certain days
9. Signs of material spillage around feed area
10. More surface wear on one wing roller

Failure to keep a belt centered on the rollers will cause uneven wear and reduce the life of the belt, causing long periods of down time and uneven stockpile distribution.

6.5 HYDRAULIC TANK

11Kw Power Pack



ITEM REF	DESCRIPTION	QTY
1	11Kw 3 PHASE ELECTRIC MOTOR	1
2	DRIVE COUPLING GP2-15Kw	1
3	BELL HOUSING GP2-15Kw	1
4	PUMP TANDEM 13cc + 7 cc	1
5	MANIFOLD CEETOP 3 SINGLE STATION WITH PRV	1
6	MANIFOLD CEETOP 3 4-STATION WITH RELIEF	1
7	VALVE CEETOP LEVER ALL PORTS BLOCKED	2
8	VALVE CEETOP 3 DIRECTIONAL	1
9	VALVE CEETOP 3 A+B-T SPOOL	1
10	VALVE CEETOP 3 UNLOADER	1
11	TANK TOP RETURN LINE FILTER	1
12	350mm LOW LEVEL OIL SWITCH	1
13	FLITER BREATHER 3/4" BSP	1
14	FILLER TANK TOP	1
15	GAUGE 10" LEVEL TEMPERATURE	1
16	GAUGE ISOLATER 1/4" BSP	2
17	GAUGE 0-250 BAR	2
18	HYDRAULIC TANK KIT & LID	1
1	VALVE 3/8" DOUBLE P/O CHECK	6
2	VALVE 3/8 " FLOW CONTROL WITH BY-PASS CHECK	1
3	VALVE 3/8" SINGLE PILOT	3
4	VALVE 3/8" SHUTTLE	1

Notice

The air vents in the caps must be kept open to allow the hydraulic system to breathe.

Always use the correct grade oil; this will stop the unit overheating.

If the hydraulic system requires filling up on a regular basis, check all hydraulic hoses for leaks. All repairs should be made prior to continued operation.

6.6 CHECK THE HYDRAULIC TANK

- Observe all safety warnings
- Machine must be level
- Always have the hydraulic oil at normal operating temperature.
- Always have the cylinders retracted (where possible)
- Check the level indicator, the oil must be between the red and black marks on the gauge.

6.7 ADDING HYDRAULIC FLUID

- Observe all safety warnings
- Machine must be level.
- Clean the area around the filler cap
- Open the filler cap.
- Fill the tank to mid way between the marks on the level.
- Ensure you have selected the correct grade of oil.

Note

Never overfill the hydraulic tank, as it will cause leaks from the filler cap!!

6.8 CHANGE HYDRAULIC OIL

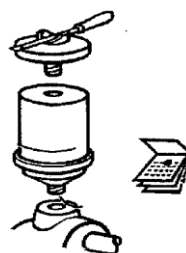
- Observe all safety warnings
- Always have the hydraulic oil at normal operating temperature.
- Always have all cylinders retracted (where possible)
- Release any pressure in the tank by slowly unscrewing the filler cap.
- Ensure you have a suitable container in place to catch the contents of the tank.
- Unscrew the Bung to drain the tank.
- Dispose of the oil in an environmentally friendly manner.
- Remove the cover plate under the filler cap and discard the gasket
- Remove the suction filters
- Flush the tank with clean hydraulic oil taking extreme care to remove all dirt and foreign matter.
- Fit new suction pipes
- Re-fit the cover plate using a new gasket.
- Change the return line filter
- Refill the tank with clean hydraulic oil to mid way between the marks on the oil level indicator.
- Run the engine to circulate the oil. Operate the hydraulic controls to purge any air from the system.
- Stop the engine and top up to required level.

6.9 GREASE CANISTER

12G Canister installed at the factory

Follow the steps below for trouble free Grease Max operation.

- Screw in the starter cap by hand & tighten down firmly. (You will hear the seal break while doing this). Use a screw driver or similar to tighten completely.
- Record change over date.
- Pre-grease bearing before first installation.
- Install Grease Max hand tight into grease point.



Do not open or remove until the change over date.

This canister is designed to operate at an average temperature of 25°C. See table below in order to get the discharge rate at various temperatures

Version	01W (1month)		03B(3 months)		06R (6months)		12G(12months)	
Ambient environmental temperature	Duration in months	Discharge in g/day	Duration in months	Discharge in g/day	Duration in months	Discharge in g/day	Duration in months	Discharge in g/day
65°			0.5	8	1	3.6	2	1.8
55°	0.3	12	1.0	3.6	2	1.8	4	0.9
45°	0.5	7.3	1.5	2.3	3	1.7	6	0.6
35°	0.7	5.2	2.5	1.5	4.5	0.8	9	0.4
25°	1	3.6	3	1.2	6	0.6	12	0.3
15°	1.5	2.3	4.5	0.8	9	0.4	18	0.2
5°	2	1.8	6	0.6	14	0.26	28	0.13
-5°	4	0.9	12	0.3	24	0.15	48	0.08
-15°	6	0.6	18	0.2	36	0.1		
-25°	9	0.4	27	0.13				

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Warning

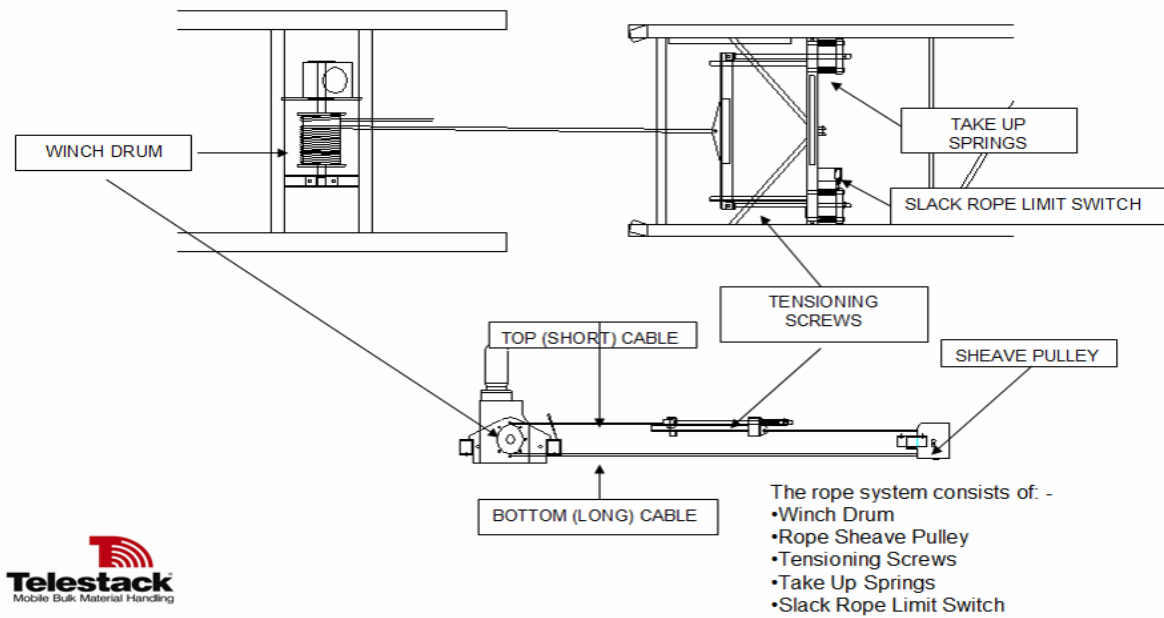
Grease Max uses a small quantity of potassium hydroxide as part of its operation. If it is opened or accidentally damaged and the liquid escapes onto the skin or eyes, wash with water immediately and seek medical advice.

6.11 WINCH ROPE SYSTEM

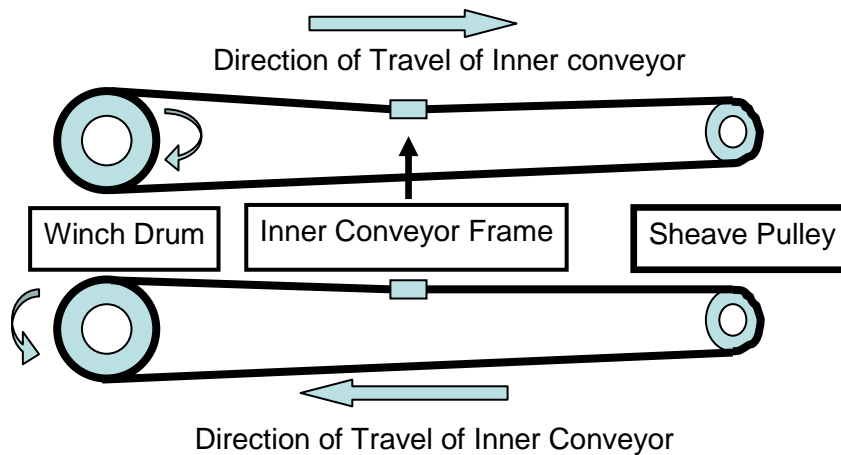
6.11.1 WINCH ROPE OVERVIEW

Winch Rope Overview

Winch Rope Overview



Winch Rope Overview

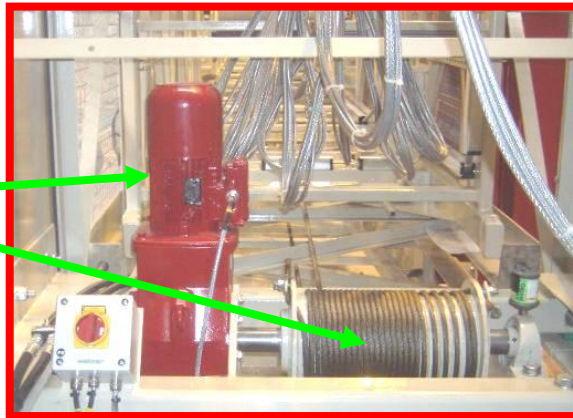


Note: As one rope unwinds from winch drum, the other winds onto the winch drum. Thus ANY overlapping of rope on drum causes tightening of one rope between drum & chassis or drum & pulley resulting in damage to the equipment if not corrected.

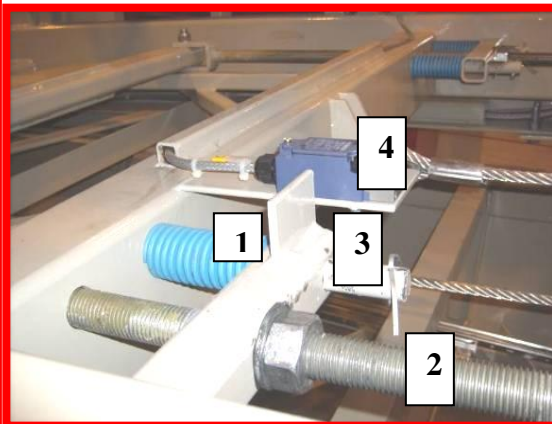
Position of Winch Rope Mechanism
(Shown on a TS-550 Machine)



Winch Rope Motor and Drum



1 Tension Springs
2 Tension Screw
3 Target Plate
4 Slack rope limit switch

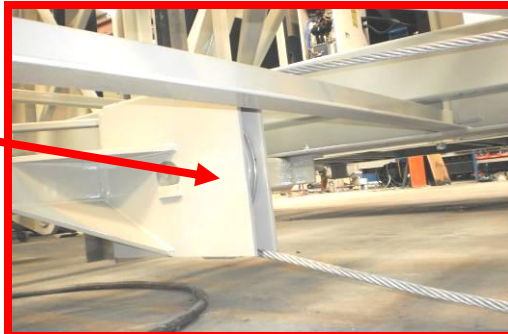


Sheave Pulley

Position on TS-
1242



Close up of Sheave
Pulley on an inner
conveyor (whilst on
factory floor)





The winch rope must be properly maintained to ensure the correct operation of this equipment and the safety of those who operate it.

There are two separate ropes on the winch drum.

It is essential that both ropes are tight at all times, failure to do so could result in a rope breaking thus allowing the inner conveyor to be UNCONTROLLED.

DO NOT operate the machine with any of the ropes slack. If operated abnormally, with a slack rope, the slack rope limit switch will activate thus preventing the conveyor from operating. Activation of the slack rope limit switch requires immediate **investigation** to assess the cause.



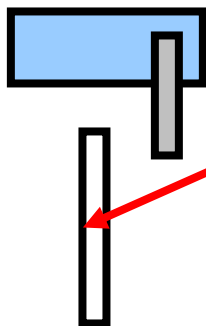
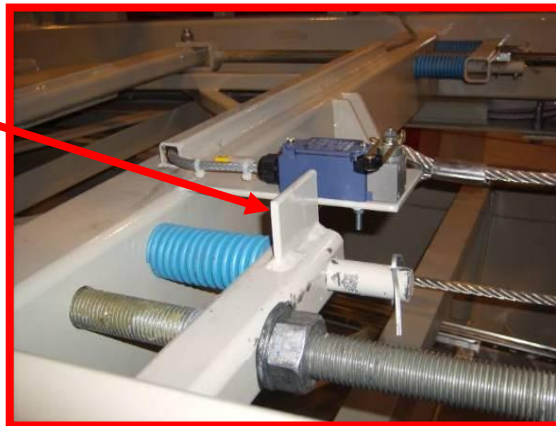
Slack Rope Protection

During normal use both winch ropes can stretch but the system is designed for Winch Rope Tensioning springs to automatically take up this slack.

When the springs un-tension, the strike plate is moved until it activates the slack rope limit switch.

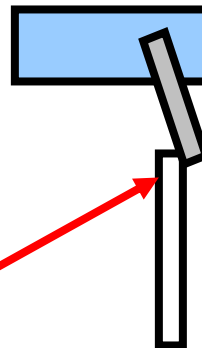
This then stops the machine and the control panel will indicate a "Rope Fault".

Strike plate moves as spring untensions until slack rope limit switch is activated and stops the machine



Strike Plate Normal

Too much slack, strike plate activating Slack Rope Limit Switch



Rope Fault (shown on TS-550 Panel)

If the rope becomes slack during operation the limit switch will trigger a fault light on the control panel, and the machine will stop.

This is also the Slack Rope Limit Switch Override button and should only be used during controlled conditions that require the switch to be overridden.



The electrical Circuit has also been designed to trip the winch motor power in the event of the Winch Motor taking excessive current (a possible indication of slack rope where one of the ropes has double wound on the winch drum).

See details on **Daily Inspection**.



If the “Rope Fault” indicator or the Winch Motor Electrical overload have activated, investigate immediately to assess the cause BEFORE using the machine again.

Proper Winch Rope installation, maintenance, inspection and response to trip conditions is essential for the safe and correct operation of all machines.

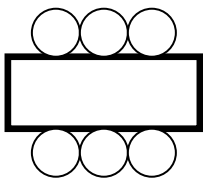


6.11.2 DAILY INSPECTION

Daily Inspection

Daily Inspection

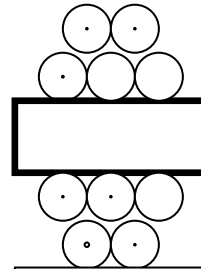
Inspection:
Both Winch Ropes
should be on **one layer**
on the Winch Drum.



X Section View



OK



X Section View



NOK

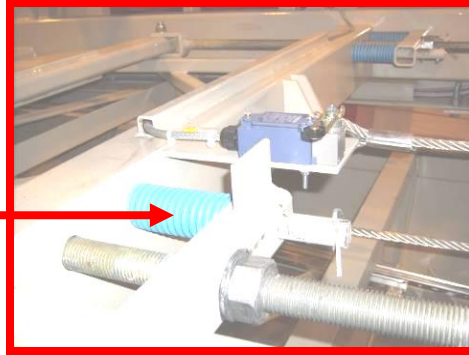
When there is too much slack one, or both, ropes will wander and double wrap on the winch drum see NOK above.

The second layer of rope on the winch spool has a larger diameter (i.e. 30mm per lap larger than first layer), therefore both ropes will not release / tighten at the same rate – as per design.

The winch drum and rope sheave pulley are a fixed distance apart, therefore each lap is now pulling them 30mm closer until either the rope, sheave pulley & fixings and / or winch drum and fixings are damaged.

The Inner conveyor could now be UNCONTROLLED and can roll in at speed causing damage or potential injury!!!!

Inspection:
The Winch Rope
Tension Springs must be
fully compressed and
neither winch ropes are
slack.



If the Tension Springs are not fully contracted and the ropes are slack, please follow the instructions in the **Winch Rope Tightening Procedure** Section.

Inspection:
Both Winch ropes should be free to operate along their entire length and are not damaged – replace any damaged ropes immediately and **ONLY** use certified ropes from Telestack Ltd. See Installing a new Winch Rope Procedure.

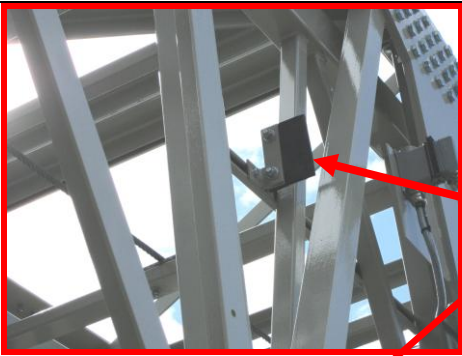
Note:

All ropes used by Telestack Ltd have been independently certified by a third party to ensure they are fit for purpose and are stamped accordingly.

**Inspection:**

Check Inner Conveyor Full Out / Full In Targets are not damaged, these activate inner conveyor over / under travel switches to prevent the operator extending or retracting the inner conveyor beyond its intended design.

Over extension or over retraction could result in damage to the winch system and danger to personnel.



Full Out Flaps (one on each side of Inner Conveyor rear)

Note:

Inner Conveyor is shown fully retracted on TS 650 m/c.



Full In Flap (one on far side of Inner Conveyor front)

Note:

Inner Conveyor is shown fully retracted on TS 650 m/c.



6.11.3 WINCH ROPE TIGHTENING PROCEDURE

Winch Rope Tightening Procedure

Winch Rope Tightening Procedure

Isolate power and **lock off at Control Panel Isolator** before working on machine.



Control Panel and Isolator shown on a TS-550 Machine

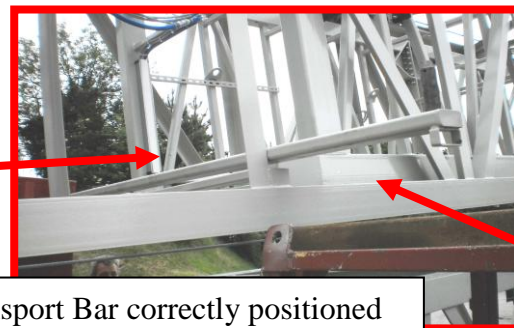


Winch Rope Tightening Procedure – Securing the Inner Conveyor

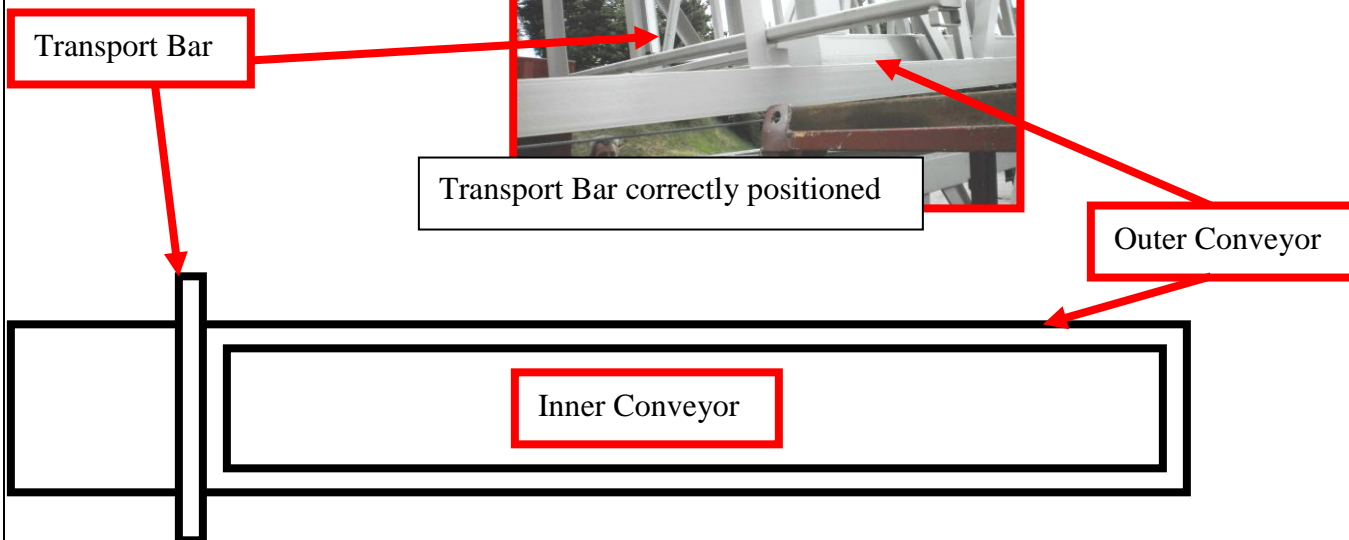


Transport Bar being positioned in place

Use the Transport Bar (Shipped with Machine) to wedge at the back of the Inner Conveyor placing it across the entire width of the outer conveyor. This helps prevent the Inner Conveyor from moving backwards during the Winch Rope Tensioning process.



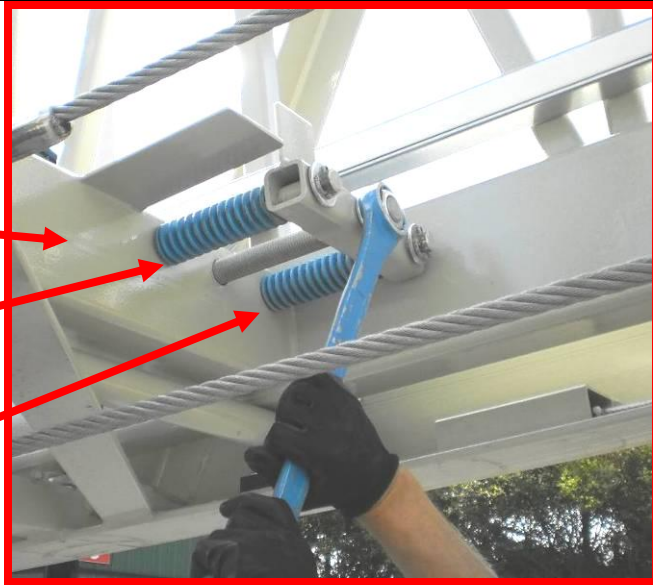
Transport Bar correctly positioned



5 Tension Springs
(Fully Contracted)

6 Tension Screw

7 46mm Spanner



The Winch system is designed to allow manual tensioning of the ropes at one convenient point using a 46mm spanner. The Tension Screw should be rotated until the Tension Springs are fully contracted (as shown in the above picture).

**ONLY ADJUST THE TENSIONER WHILST
OUTSIDE THE M/C**



Tensioning is now complete, **remove Transport bar**, switch isolator on and run m/c to check the winch system is running correctly.

6.11.4 INSTALLING A WINCH ROPE

INSTALLING A WINCH ROPE

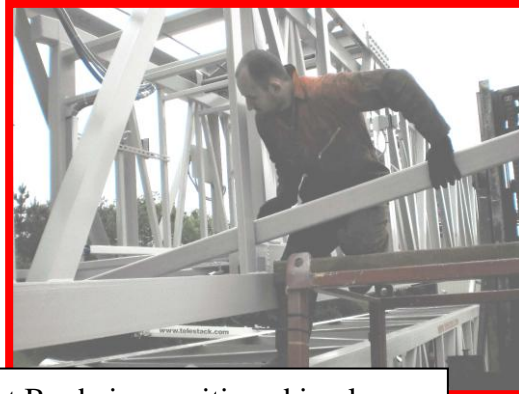
Only suitably qualified & competent personnel should carry out this procedure. Improper Installation & Maintenance will affect the safe & efficient operation of the Machine.

Isolate & Lock Off
Power to the Machine



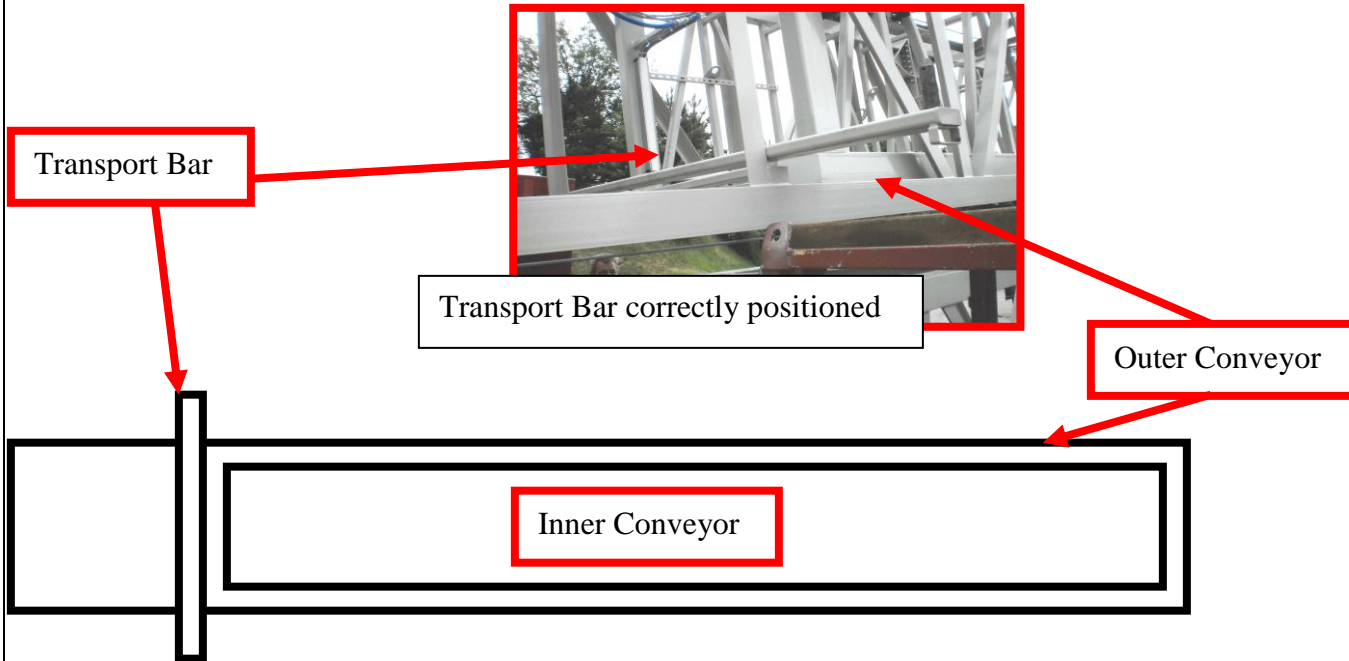
Control Panel and Isolator shown on
a TS-550 Machine

Winch Rope Installation – Securing the Inner Conveyor



Transport Bar being positioned in place

Use the Transport Bar (Shipped with Machine) to wedge at the back of the Inner Conveyor placing it across the entire width of the outer conveyor. This helps prevent the Inner Conveyor from moving backwards during the Winch Rope Tensioning process.



ONLY use certified ropes from Telestack Ltd..

Note:

All ropes used by Telestack Ltd have been independently certified by a third party to ensure they are fit for purpose and are stamped accordingly.



Long Rope Installation

Roll Out and inspect Long Rope for any signs of damage.



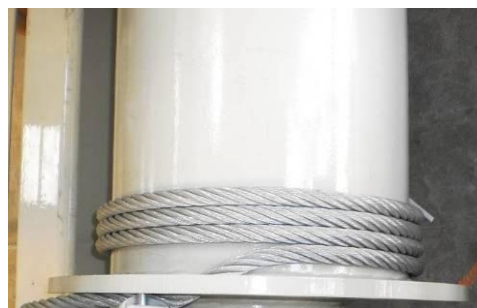
Run the rope from the winch and around the sheave pulley.
(See diagrams on next page)

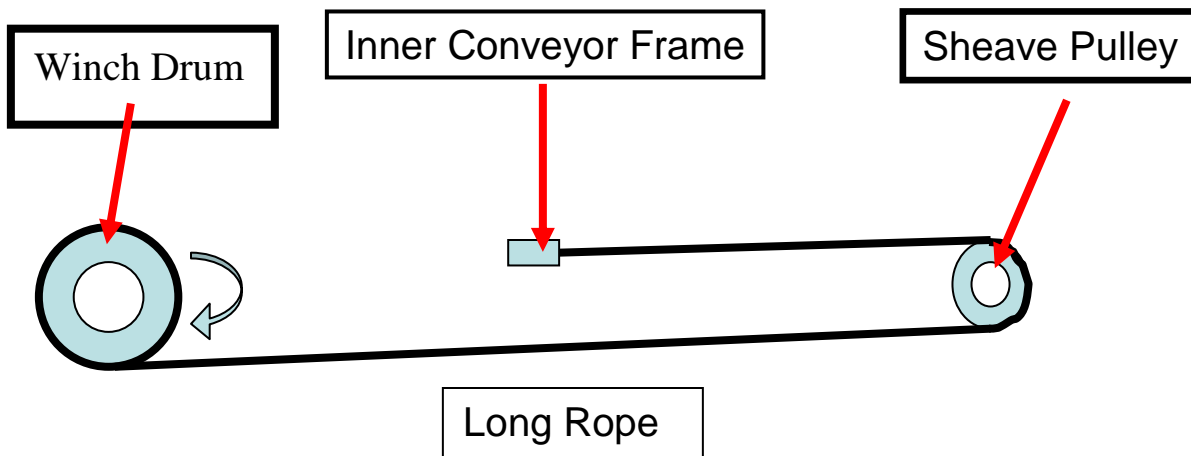
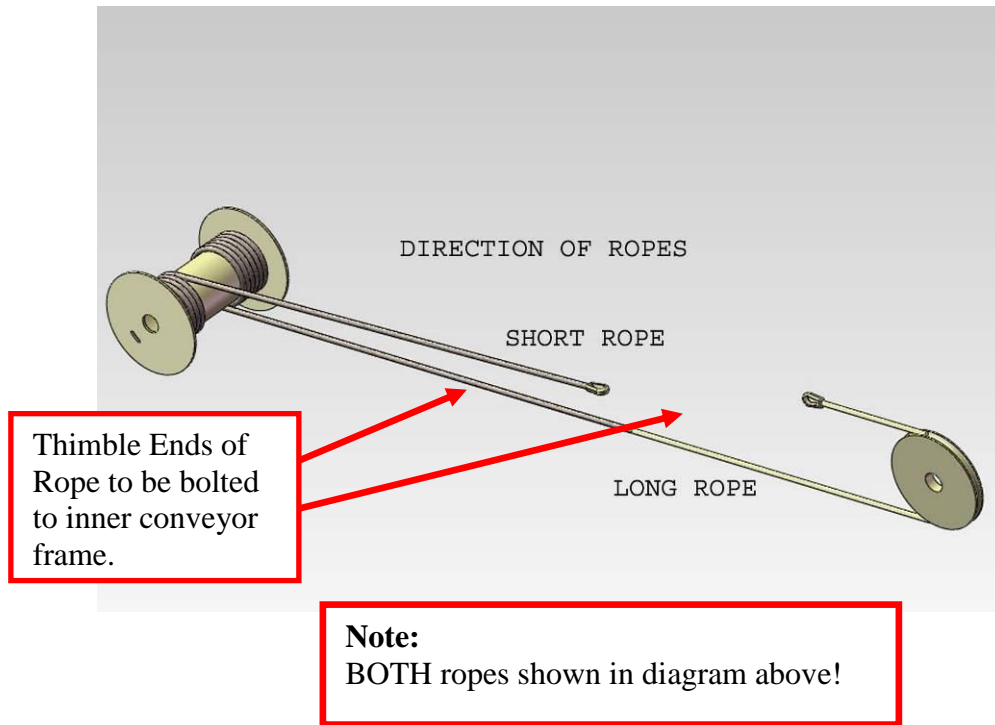


Fit the thimble end to the Inner Conveyor.



Feed the other end of the rope down to the winch drum and roll around the drum 2 – 2 1/2 coils.
Feed through the clamp hole and clamp into place.
Trim off excess Rope.



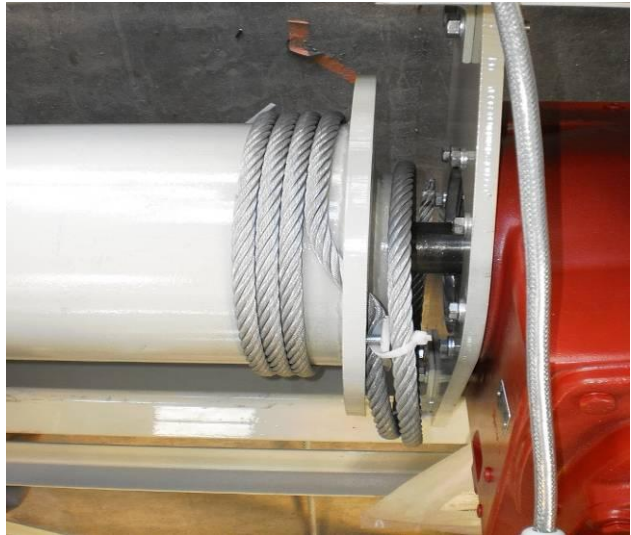


Winch Spool with 21/2
turn of rope

Pass Rope through this
hole and clamp on the
other side



Shown with rope passed
through hole and
clamped – ready now for
removing excess rope.



Short Rope Installation

Run out and inspect the short winch rope.



Feed short rope from the back of the Machine, over the winch drum.



Feed to the Inner Conveyor frame
NOTE – run rope UNDER the brace to the conveyor as shown.



Secure with M20 Bolt & New Nylock Nut.



You are now ready to fully extend the inner Conveyor and then finish the installation of the short rope.

Remove Transport bar, switch on isolator.

Position a person at the rear of the machine who will guide the short rope in when the conveyor is extended.

Switch Machine on and slowly extend the Inner Conveyor.

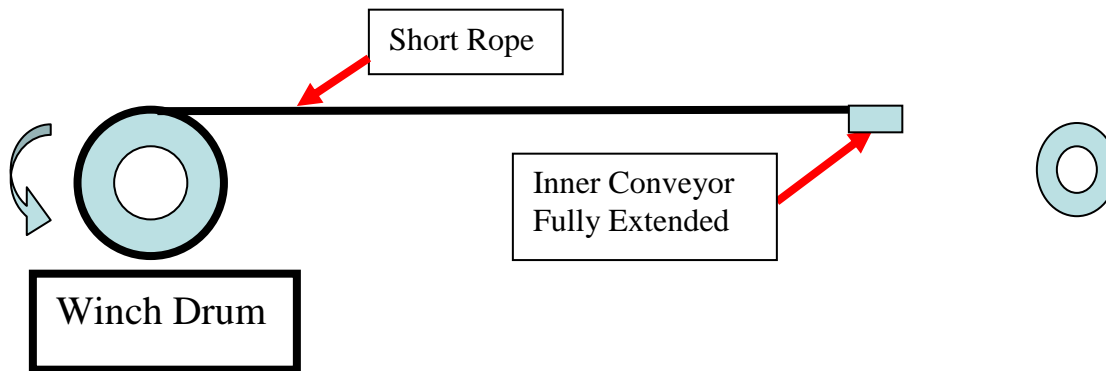
When it is fully extended refit the Transport bar at the back of the inner conveyor (to stop the possibility of it falling back.

Stop the machine and isolate the power to the machine by locking off the isolator.

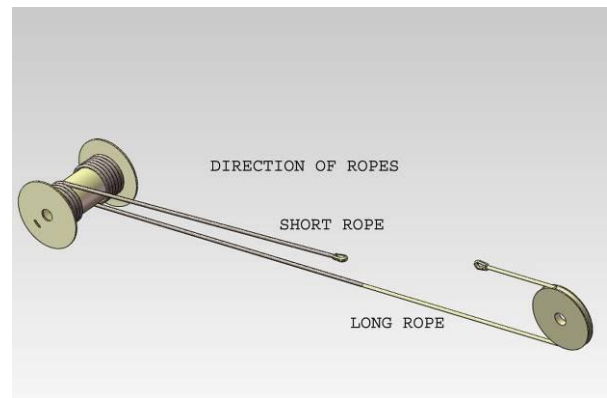


The Isolation of Power and refitting of the Transport Bar is very important as the inner conveyor is fully extended and can return to its original position.

The next step involves going inside the conveyor system to fit the short rope to the winch drum.



Note:
BOTH ropes shown in diagram!

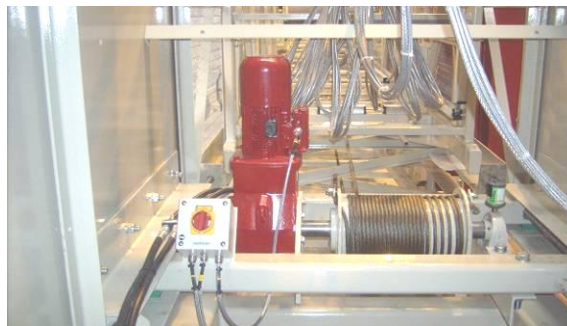


Feed the short rope down to the winch drum winding 2 – 2 1/2 coils around the drum in the **OPPOSITE DIRECTION** to the Long rope coils!

Feed through the clamp hole and clamp into place as per long rope.

Trim off excess rope.

Tighten ropes as per Winch Rope Tightening Procedure.

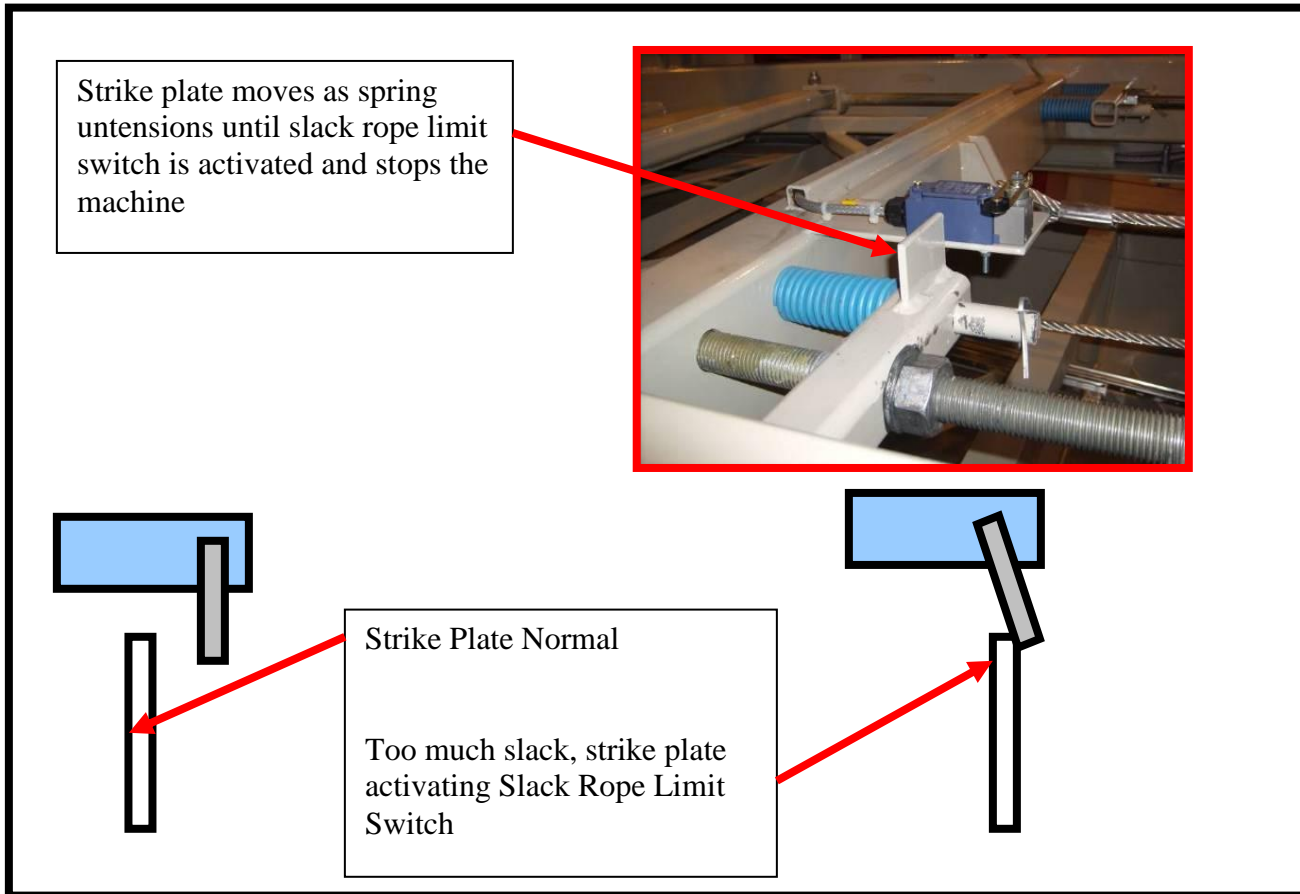


Both ropes shown correctly fitted

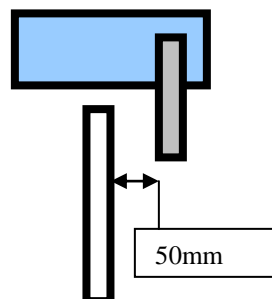


The Slack Winch Rope Limit Switch will now need to be set

The Strike plate is designed to activate the limit switch as per description below.



With the tension springs fully contracted set the arm of the limit switch so the plate has to travel approximately 50mm to strike it.



You are now ready to operate the machine

Remove the Transport Bar, switch on the machine and carefully check, in slow speed, that the inner conveyor is operating correctly. Run the inner conveyor fully in and fully out 3 times and recheck the Winch Rope Tension Springs and adjust as necessary as per process.

When the winch rope system no longer requires tensioning the installation is complete.

Please contact Telestack Ltd if you require more advice.

www.telestack.com

7. TROUBLE SHOOTING

WARNING

Before operating this machine the safety instructions contained in the Telestack Operation Manual must be read & understood

7.1 INTRODUCTION

Only qualified electrician should work on the electrical system of this machine. Incorrect connections or modifications may cause the machine to operate in an unsafe manner.

Any active fault will cause an appropriate LED to illuminate on the front of the panel.

7.2 GENERAL

The troubleshooting charts that follow are of a general system nature. Effect and probable cause charts are covered on the following pages.

There is of course little point in discussing the design of a system which has been operating satisfactorily for a period of time. However a seemingly uncomplicated procedure such as relocating a system or changing a component part can cause problems. Because of this the following points should be considered:

- Each component must be compatible with and form an integral part of the system. For example an inadequate size filter on the inlet of a pump can cause cavitation and subsequent damage to the pump.
- All lines must be of proper size and free of restrictive bends, an undersized or restricted line results in a pressure drop in the line itself.
- Some components must be mounted in a specific position with respect to other components or the lines. The housing of an in-line pump, for example, must remain filled with fluid to remain lubricated.
- The inclusion of adequate test points for pressure readings, although not essential for operation, will expedite troubleshooting.

7.3 KNOWING THE SYSTEM.

Probably the greatest aid to troubleshooting is the confidence of knowing the system. The construction and characteristics of each one should be understood. For example knowing that a solenoid controlled directional valve can be manually actuated will save considerable time in isolating a defective solenoid.

Some additional practices which will increase your ability and also the useful life of your system follow:

- Know the capabilities of the system. Each component in the system has a maximum rated speed, torque or pressure. Loading the system beyond these specifications simply increases the risk of failure.
- Know the correct operating pressures. Always set and check pressures with a gauge. The correct operating pressure is the lowest pressure which will allow

adequate performance of the machine and still remain below the maximum rating of the components and the machine.

- Know the proper signal levels, feedback levels, dither and gain settings in servo control systems. If they aren't specified check them when the system is functioning correctly and mark them on the schematic for future reference.

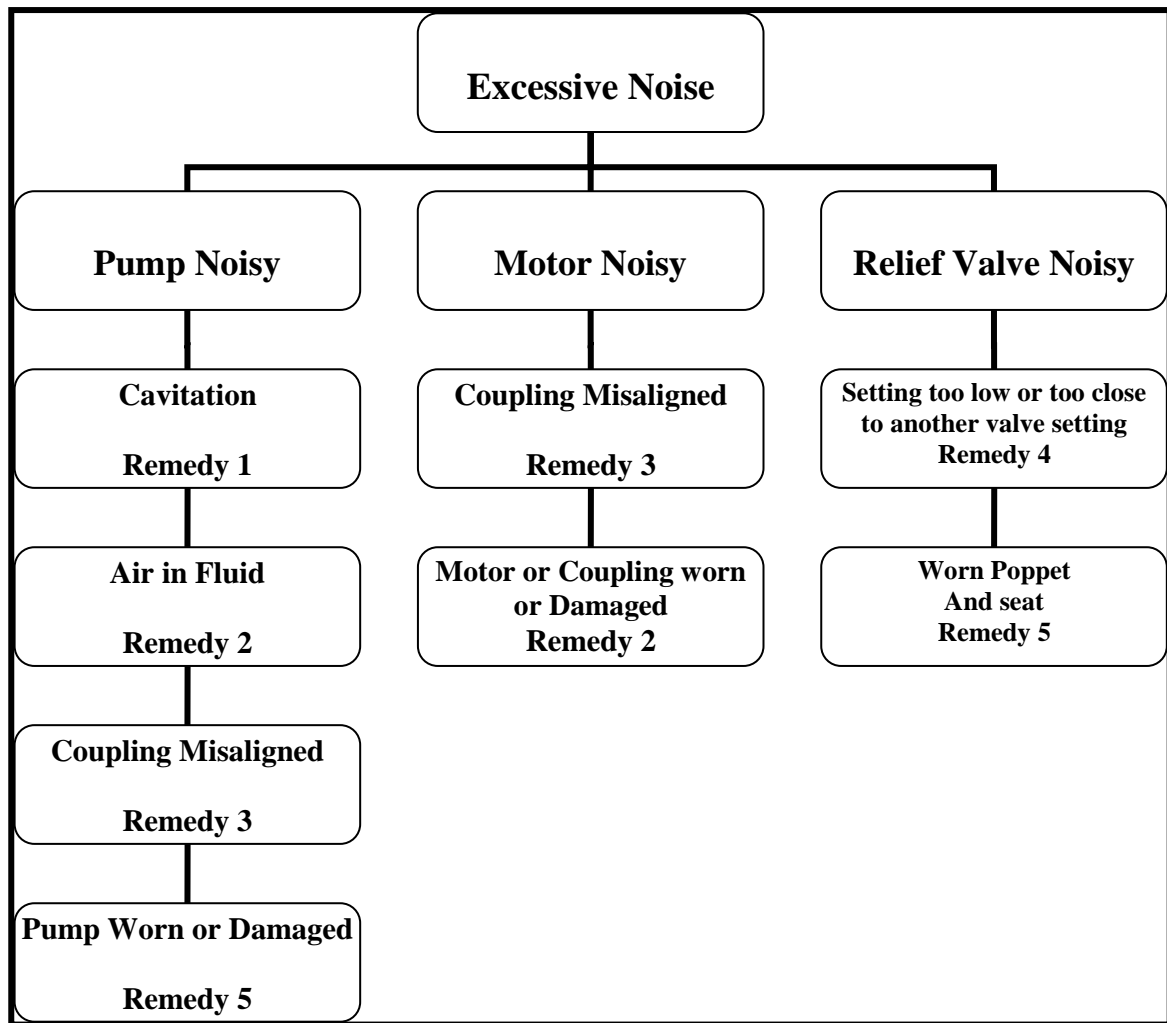
7.4 RECOGNISING TROUBLE INDICATIONS

The ability to recognize trouble indications in a specific system is usually acquired with experience. However a few general trouble indications can be discussed.

- Excessive heat means trouble. A misaligned coupling places an excessive load on bearings and can be readily identified by the heat generated. A warmer than normal tank return line on a relief valve indicates operation at relief valve setting. Hydraulic fluids which have a low viscosity will increase the internal leakage of components resulting in a heat rise. Cavitation and slippage in a pump will also generate heat.
- Excessive noise means wear, misalignment, cavitation, or air in the fluid. Contaminated fluid can cause a relief valve to stick and chatter. These noises may be the result of dirty filters, or fluid, high fluid viscosity, excessive drive speed, low reservoir level, loose intake lines or worn couplings.

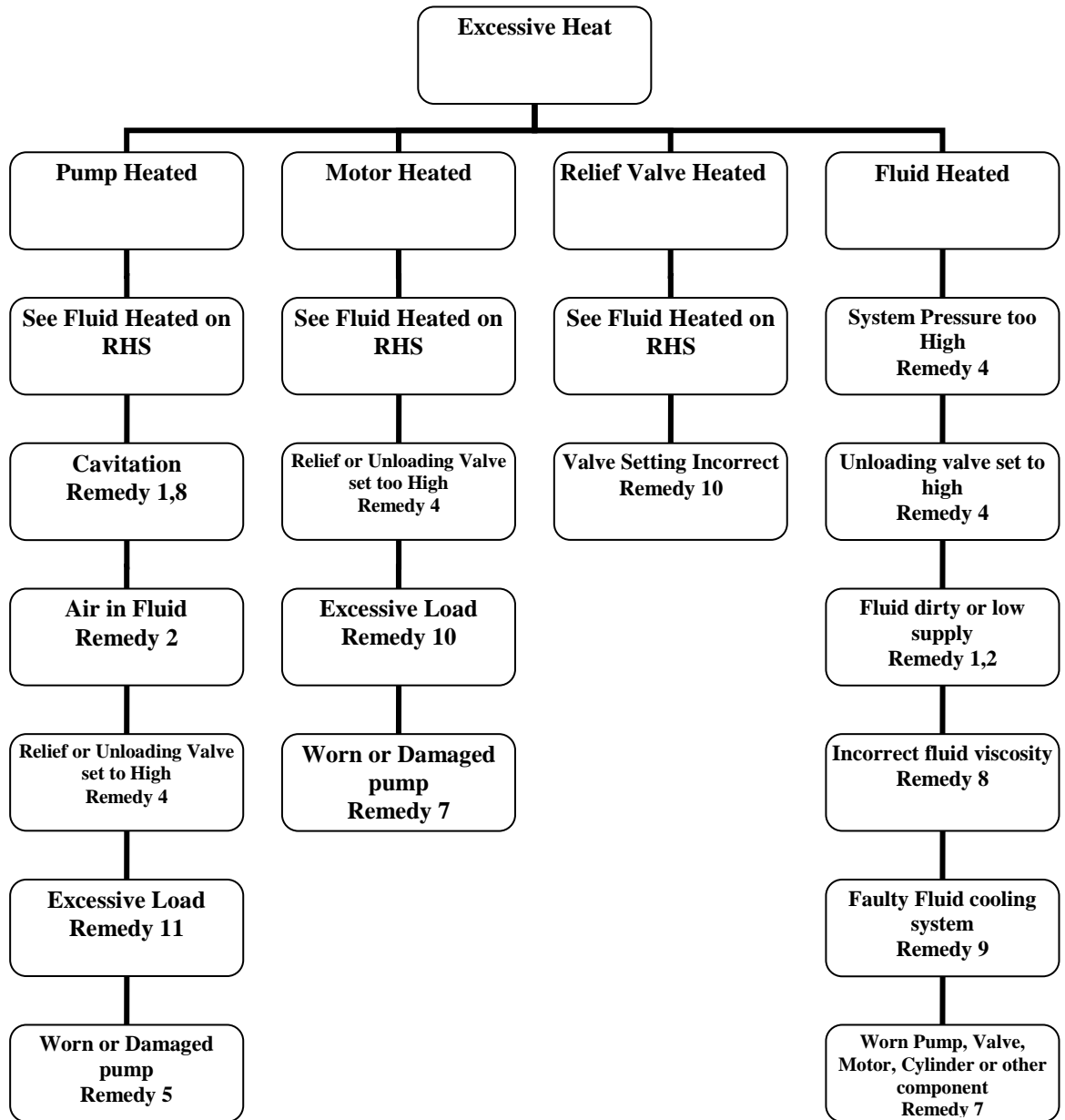
7.5 GUIDELINES FOR TROUBLESHOOTING CHARTS.

The following charts are arranged in five main categories. The heading of each one is an effect which indicates a malfunction in the system. For example if a pump is exceptionally noisy refer to chart 1 titled excessive noise. The noisy pump appears in column A under the main heading. In column A there are four probable causes for a noisy pump. The causes are sequenced in order of the likelihood of happening or the ease of checking it. The first cause is cavitation and the remedy is 'a' if the first cause does not exist then check for the cause number 2, etc.

7.6 EXCESSIVE NOISE**Remedies:**

- Any or all of the following:
 Replace dirty filters, wash strainers in solvent compatible with system fluid. Clean clogged inlet filters, clean or replace reservoir breather vent.
 Change system fluid, change to proper pump drive motor speed.
 Hydraulic oil temperature may be below the recommended operating range.
- Any or all of the following:
 Tighten leaking connections
 Fill reservoir to proper level.
 Bleed air from system,
 Replace pump shaft seal (and shaft if worn at seal journal)
- Align unit and check condition of seals, Bearings and Couplings.
- Install pressure gauge and adjust to correct pressure(keep 3 bar difference between valve settings)
- Overhaul or replace.

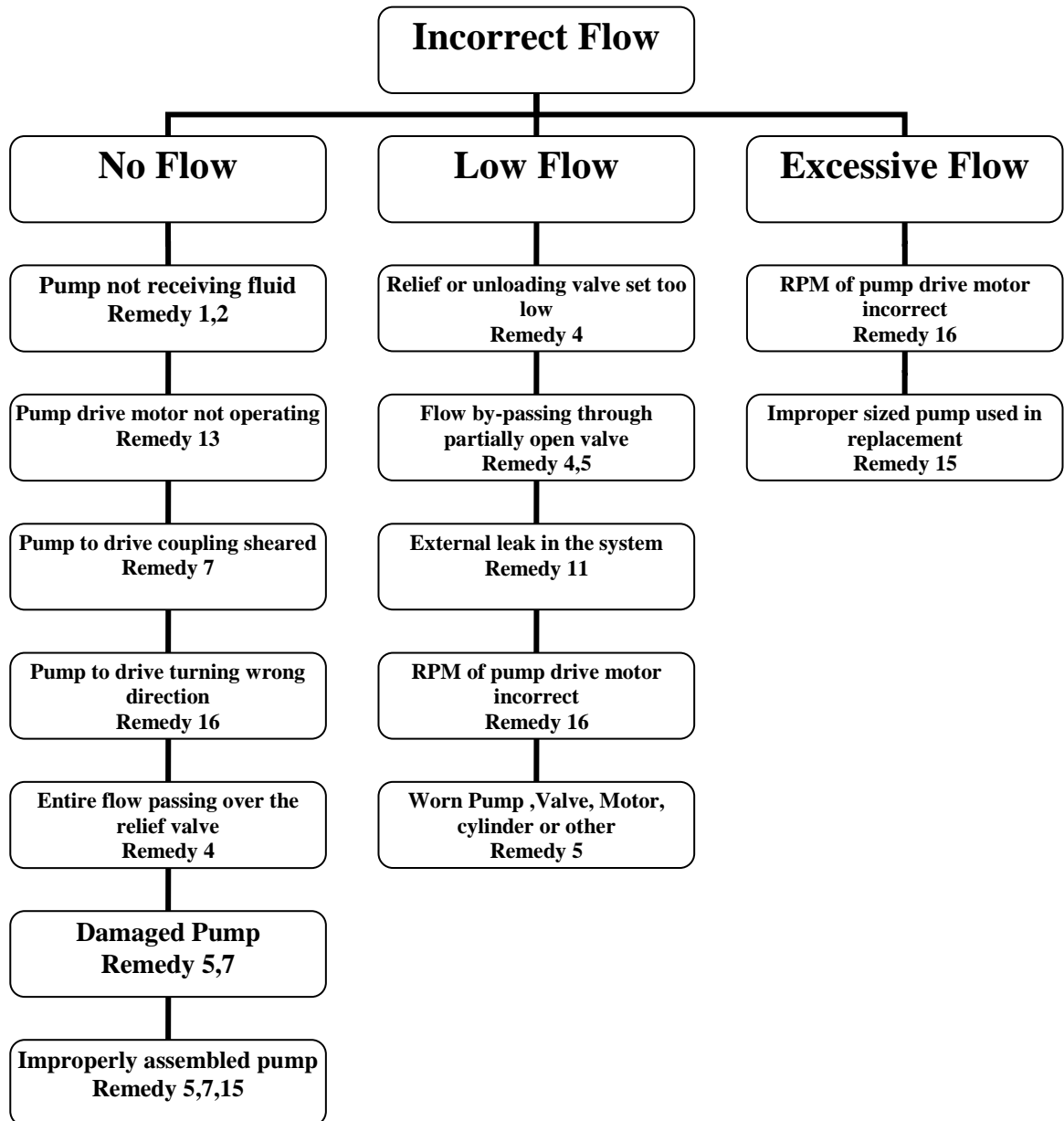
7.7 EXCESSIVE HEAT



Remedies:

6. Check for damaged pump or pump drive, replace and align coupling
7. Change filters and system fluid if improper viscosity, fill to correct level.
8. Clean cooler and or cooler strainer, replace cooler fan or repair .Replace cooler.
9. Check for work load in excess of circuit design. Reduce load on machine

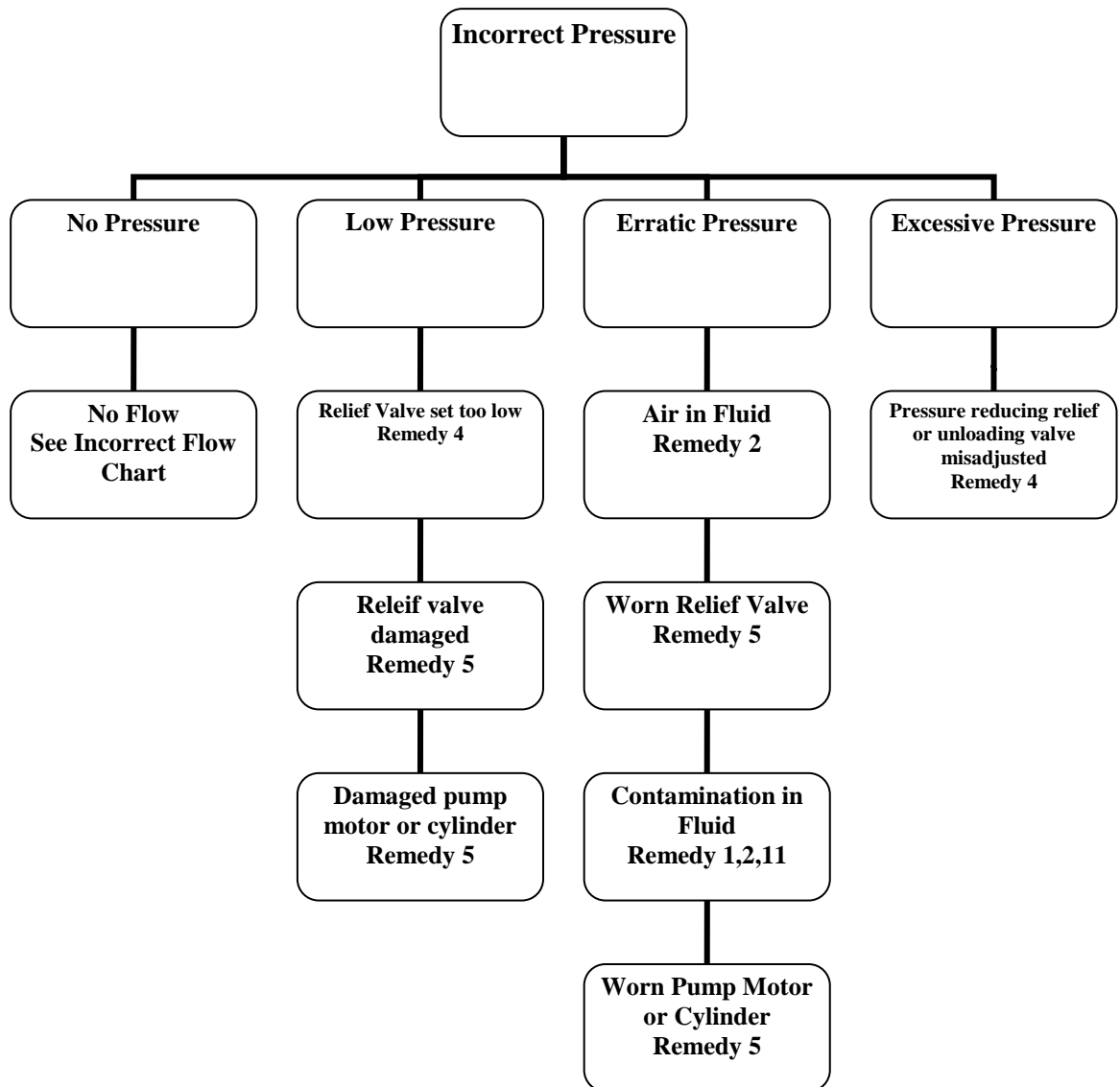
7.8 INCORRECT FLOW



Remedies:

10. Tighten leaking connections, fill reservoir to proper level and bleed air from system.
11. On dual power machines, Check the emergency stop system and reset. Check for damage to supply cable
12. Check position of manually operated controls, check electrical circuit on solenoid operated controls.
13. Check for correct motor rotation on dual power machines. Reverse Rotation if necessary
14. Replace with correct unit.

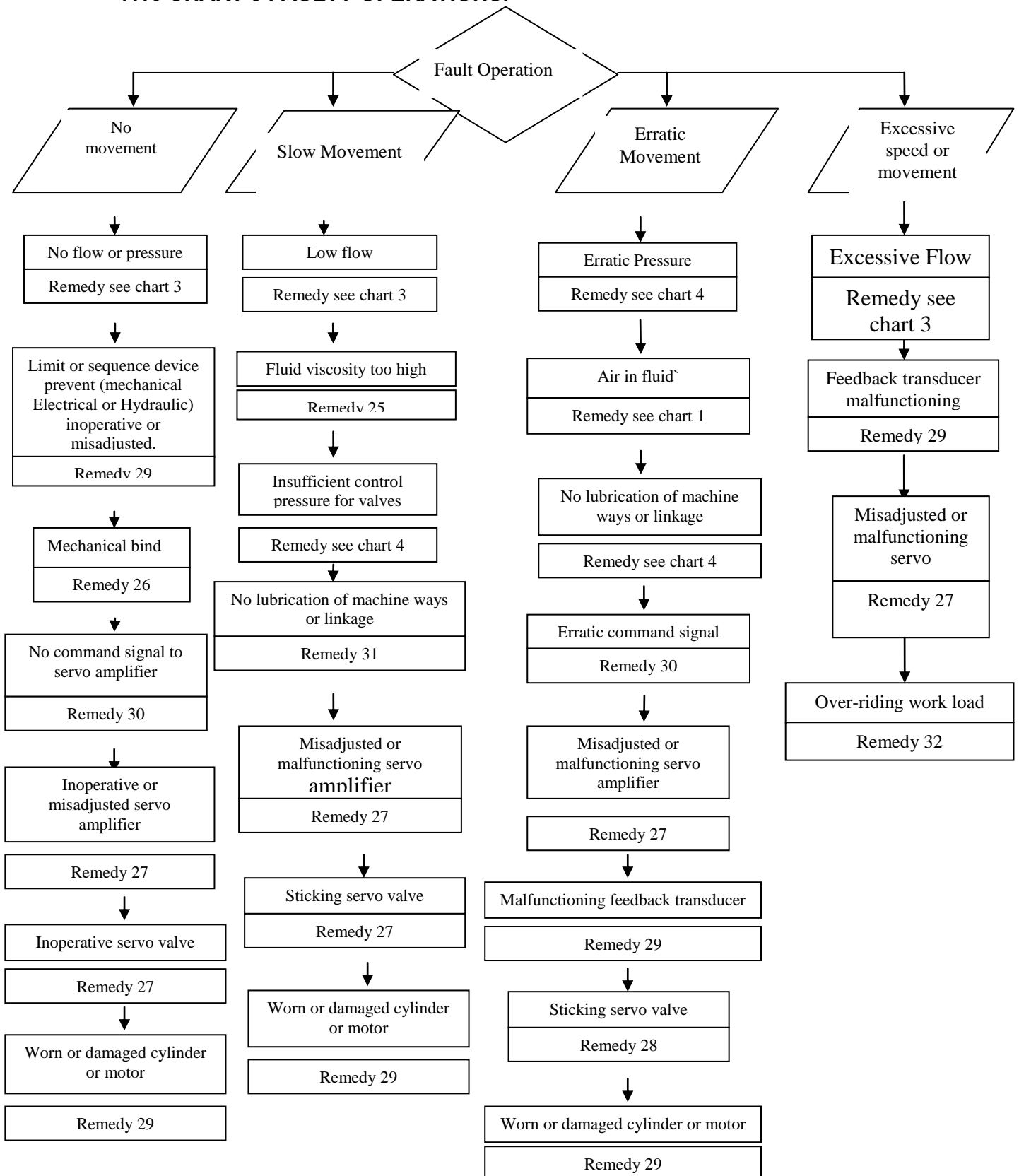
7.9 INCORRECT PRESSURE



Remedies:

15. Set appropriate engine speed for product being conveyed
16. Repair command console or interconnecting wires
17. Adjust repair or replace counterbalance valve
18. Locate bind and repair
19. Lubricate

7.10 CHART 5 FAULTY OPERATIONS.



Remedies:

- 25. Fluid may be too cold or should be changed to clean fluid of correct viscosity.
- 26. Locate bind and repair.
- 27. Adjust repair or replace.
- 28. Clean and adjust or replace: Check condition of system fluid and filters.
- 29. Overhaul or replace/
- 30. Repair command console or interconnecting wires
- 31. Lubricate.
- 32. Adjust repair or replace counterbalance valve.

7.11 TROUBLE SHOOTING AND FAULT FINDING*TROUBLE SHOOTING*

Problem	Probable Cause	Solution
A Fault Light is flashing and the alarm siren sounds	The conveyor is experiencing a problem which is recognised by the program	Skip this table and see the next section titled "Recognised fault Codes".
Auto Controls will not operate.	Auto controls won't operate if conveyors aren't running.	Push the following buttons (item 4 and 9 Fig.4 page 17) on the control panel.
Horn sounds intermittently and "Final Row" light illuminates.	This indicates that the conveyor is building the last layer of the pile.	Move conveyor to a new location.
A fixed limit switch trips unexpectedly.	A Limit switch is tripping on a structural part of conveyor or because of build up of debris.	Clear built up debris or Set limit switch arm back one step only , and run conveyor again. If problem persists repeat the process. Ensure that the limit switch arm is not spaced too far from the fixed trippers.

NOTE: If warning siren sounds at start-up this is normal. The siren is designed to sound for 6 seconds as a warning to stay clear of the operating area.

7.12 RECOGNISED FAULTS

A fault is **determined** by the corresponding fault l.e.d. flashing and siren sounding.

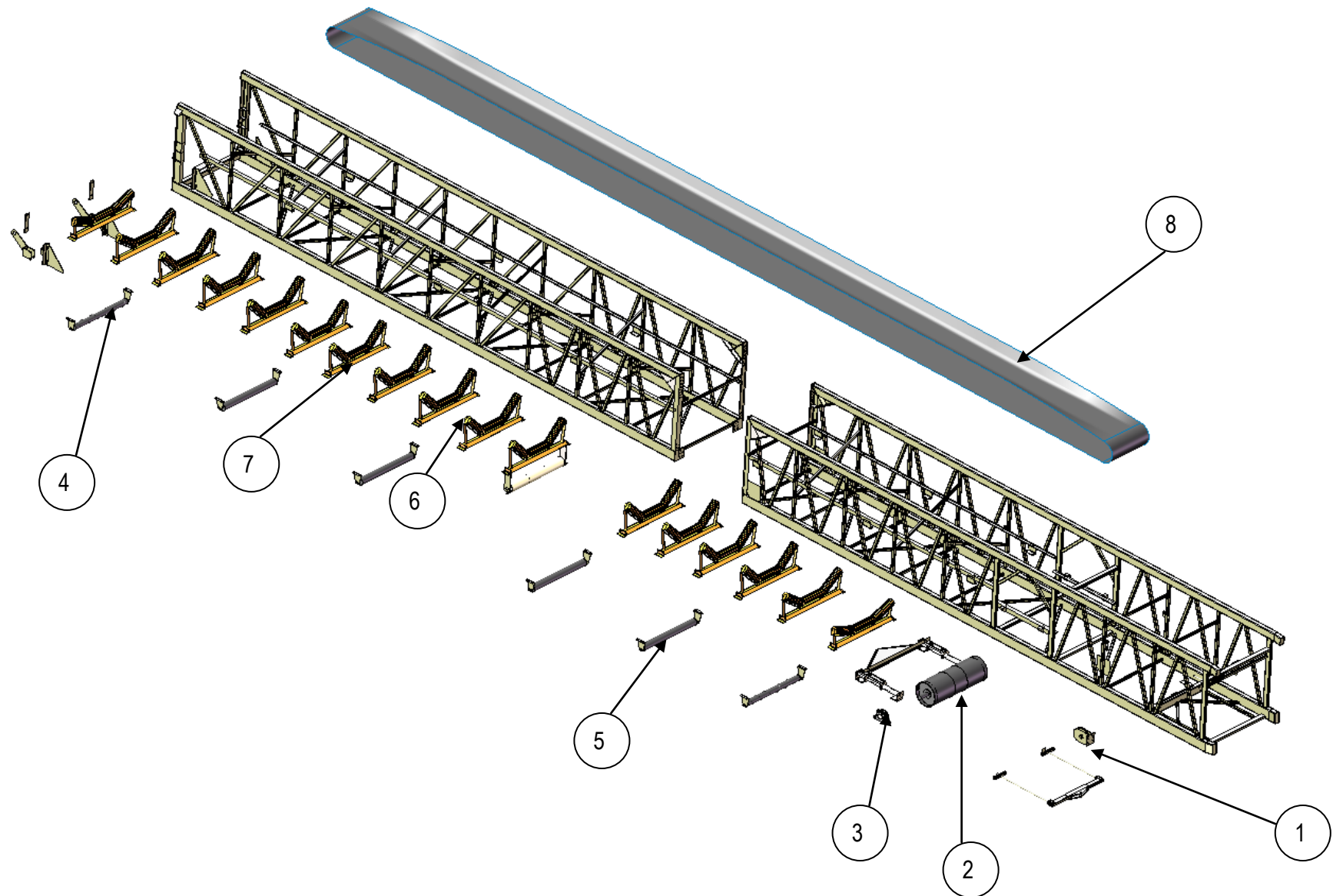
Depressing the "Blue Reset" push button on the Control Panel door will silence the alarm siren and clear any fault condition that may exist. If the fault condition is maintained, the fault will remain in effect until the problem is rectified.

FAULT TABLE

FAULT L.E.D.	Cause	Solution
Inner Conveyor	The Inner Conveyor motor Overload has tripped.	Turn off main isolator. Check to see if the inner conveyor support and guide rollers, shafts and overall structure for damage or jamming. If damage is found contact "TELESTACK International" for assistance. If no damage is found, reset the overload OL1. or have it examined by a qualified electrician.
Inner Conveyor	The Inner Conveyor motor Overload has tripped.	Turn off main isolator. Check to see if the inner conveyor support and guide rollers, shafts and overall structure for damage or jamming. If damage is found contact "TELESTACK International" for assistance. If no damage is found, reset the overload OL2. or have it examined by a qualified electrician.
Outer Conveyor	The outer Conveyor motor Overload has tripped.	Turn off main isolator. Check to see if the Outer conveyor support and guide rollers, shafts and overall structure for damage or jamming. If damage is found contact "TELESTACK International" for assistance. If no damage is found, reset the overload OL3. or have it examined by a qualified electrician.
Power pack Fault	The hydraulic pump motor overload has tripped	Turn off main isolator. Check the hydraulic tank for the correct fluid level; Check for motor or pump seizure. If no apparent causes are noted, reset the overload OL6. or have it examined by a qualified electrician.
Winch Fault	The winch drive motor overload has tripped.	Turn off main isolator. Check to see if the inner conveyor support and guide rollers, shafts and overall structure for damage or jamming. If damage is found contact "TELESTACK International" for assistance. If no damage is found, reset the overload OL5. or have it examined by a qualified electrician.
Oil Low Fault	The oil low warning sensor has activated	This is just a warning that the hydraulic oil is getting low. Top up with new oil.
Rope Fault	Slack Rope Switch has activated	The winch rope has become tangled or loosened triggering the slack rope switch.
	The oil fault sensor has activated	(OPTIONAL – NOT IN THIS CONVEYOR) the hydraulic oil is to low. This fault will switch off the hydraulic pump motor. You need to investigate why you are losing oil.

8. CONVEYOR SPARES

TS -1242

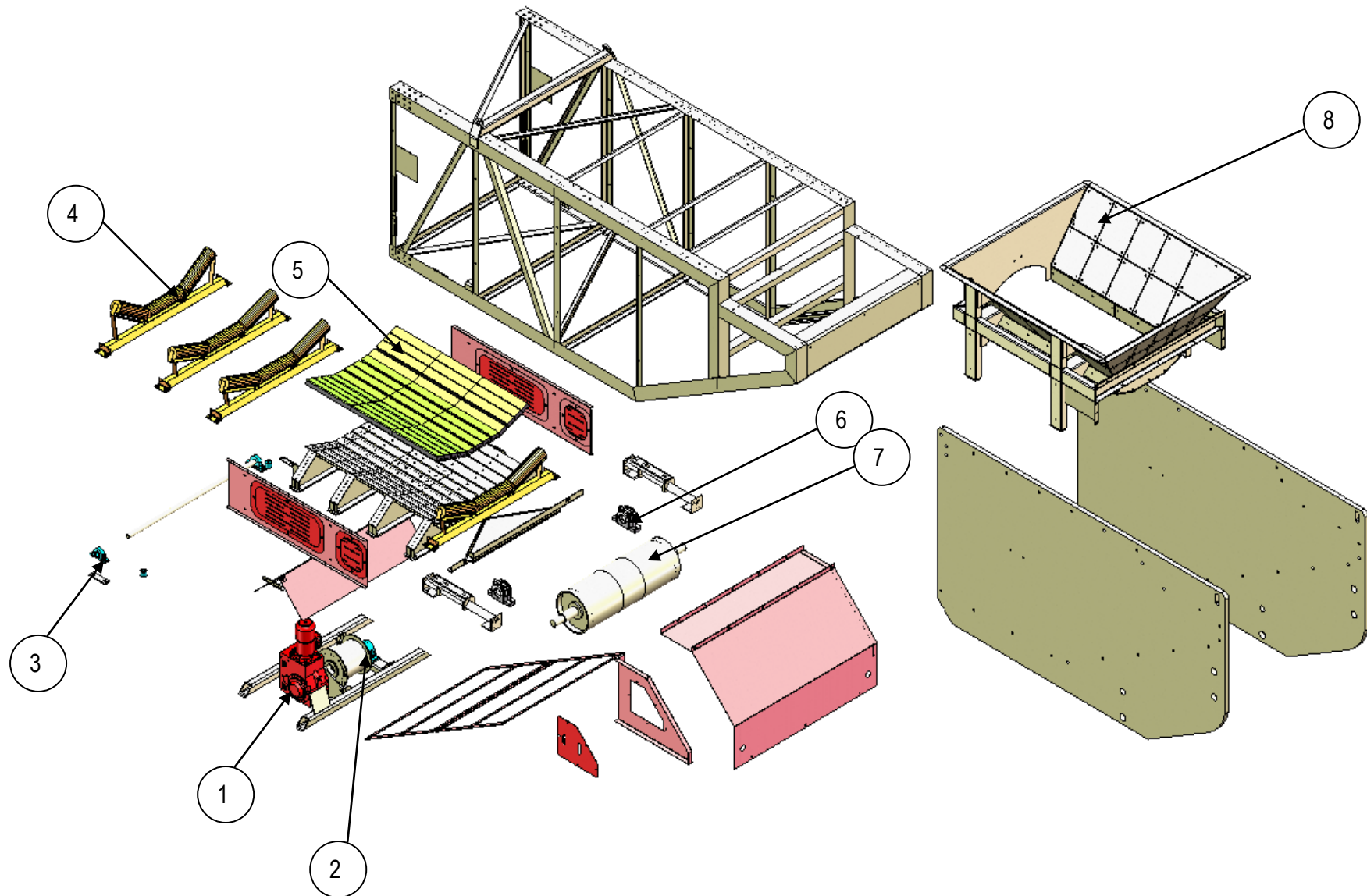


INNER CONVEYOR PARTS

SPARE PARTS

ITEM	PART CODE	DESCRIPTION	QTY
1	10.10.0031	Sheave Pulley Bearing	1
2	41.19.0084	Inner Tail Drum	1
3	10.10.0011	Tail Drum Bearing	2
4	15.30.0066	Spiral Return Roller	2
5	15.30.0067	Plain Return Roller	4
6		Wing Roller-	Supplied By Customer
7		Centre Roller-	Supplied By Customer
8	Supplied Free Issue	Conveyor Belt	1

INNER CONVEYOR PARTS

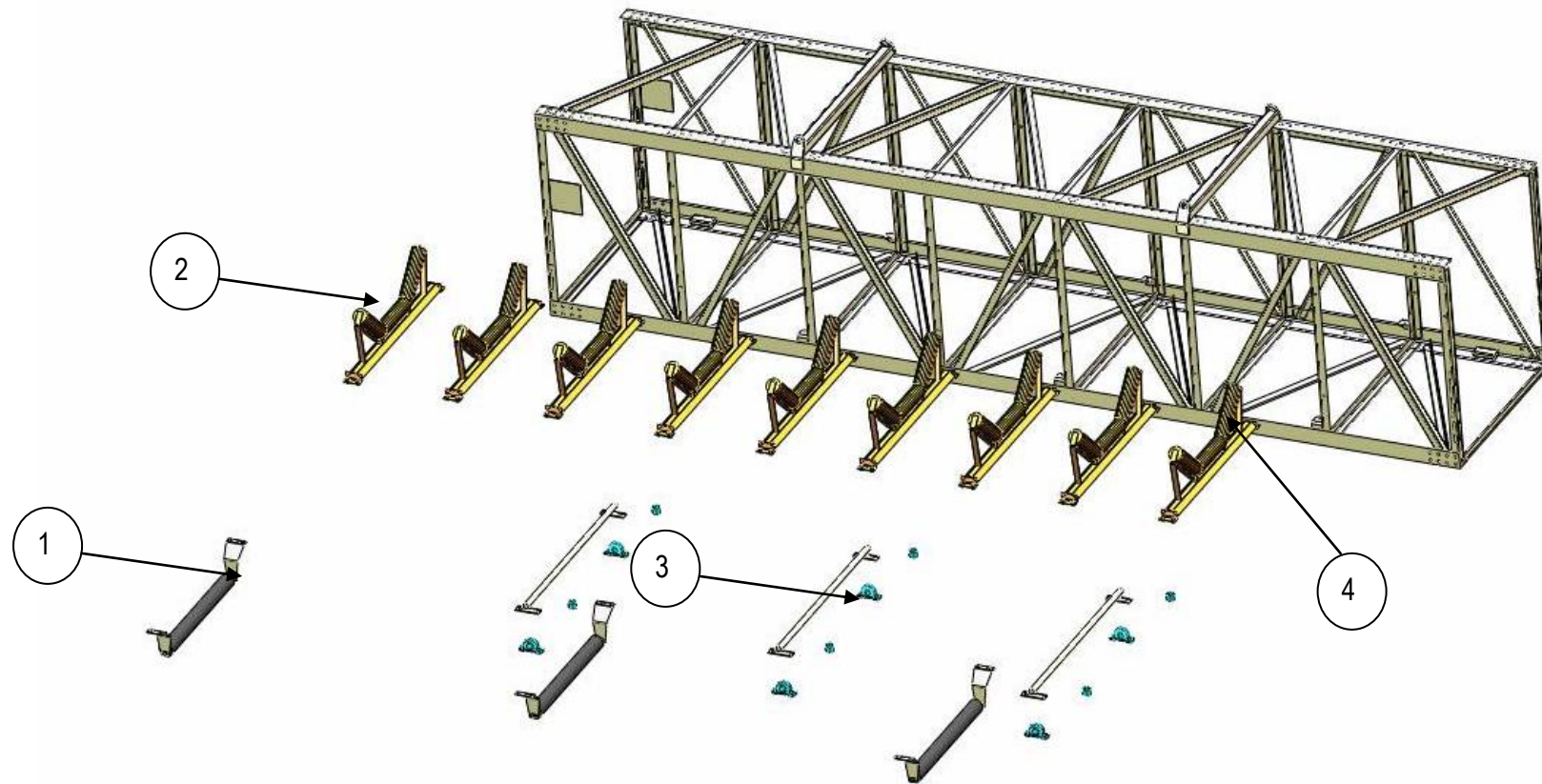


OUTER TAIL SECTION TS-1242

SPARE PARTS

ITEM	PART CODE	DESCRIPTION	QTY
1	SK903/3kw	Winch Drive	1
2	10.10.0041	Winch Drum Bearing	1
3	10.10.0039	Roller Bearing	2
4	Rulmeca 127mm x 25mm	Troughing Roller	4
5	38.10.0003	Impact Bars	24
6	10.10.0039	Tail Drum Bearings	2
7	41.19.0083	Tail Drum	1
8	??	Wear Plate Kit	1

OUTER TAIL SECTION TS-1242

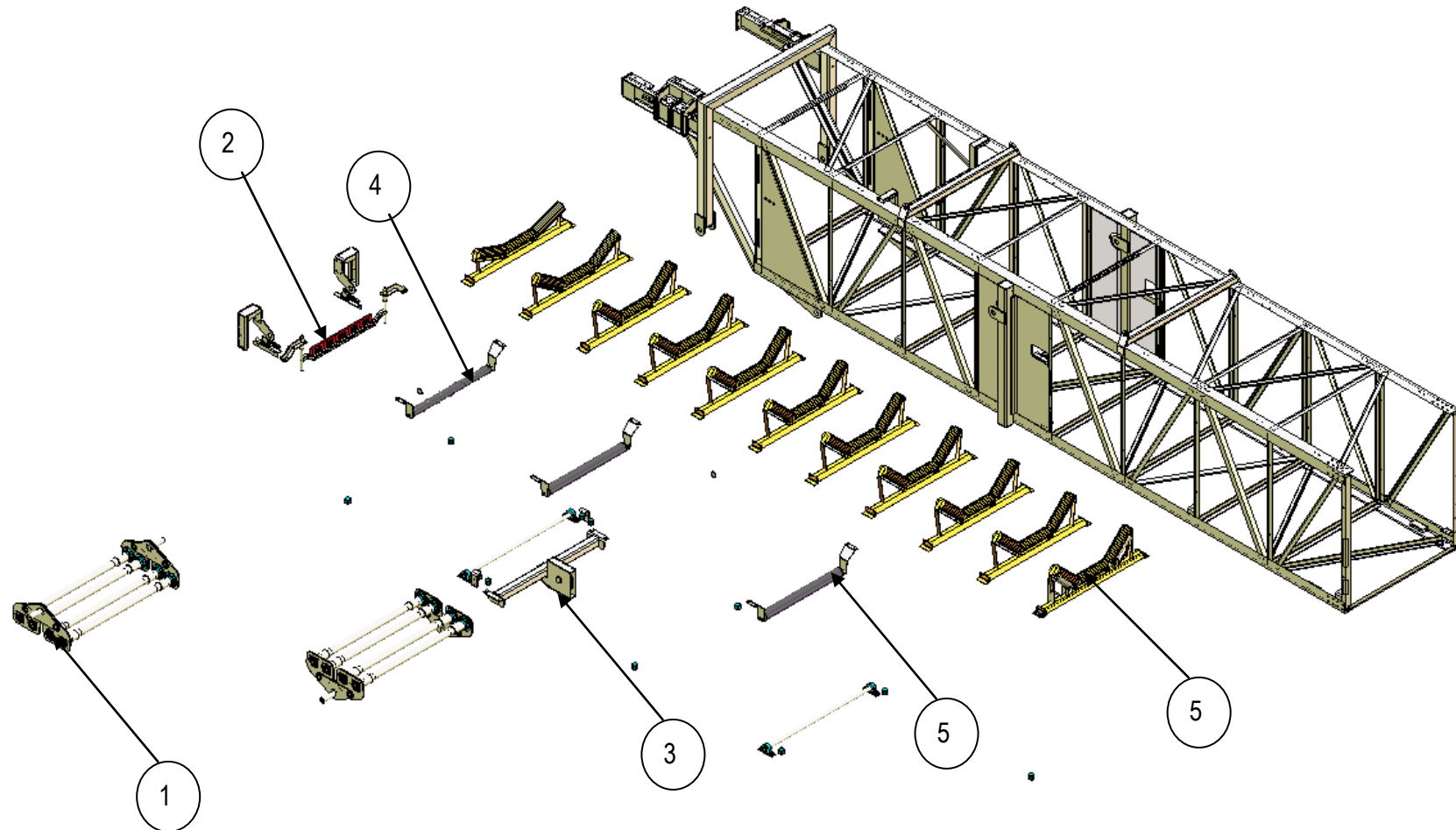


SPARE PARTS

ITEM	PART CODE	DESCRIPTION	QTY
1	15.30.0067	Plain Return Roller	3
2	Rulmeca 127/25	Centre Roller	9
3	10.10.0039	Roller Bearing	6
4	Rulmeca 127/25	Wing Roller	18

OUTER MID SECTION TS-1242

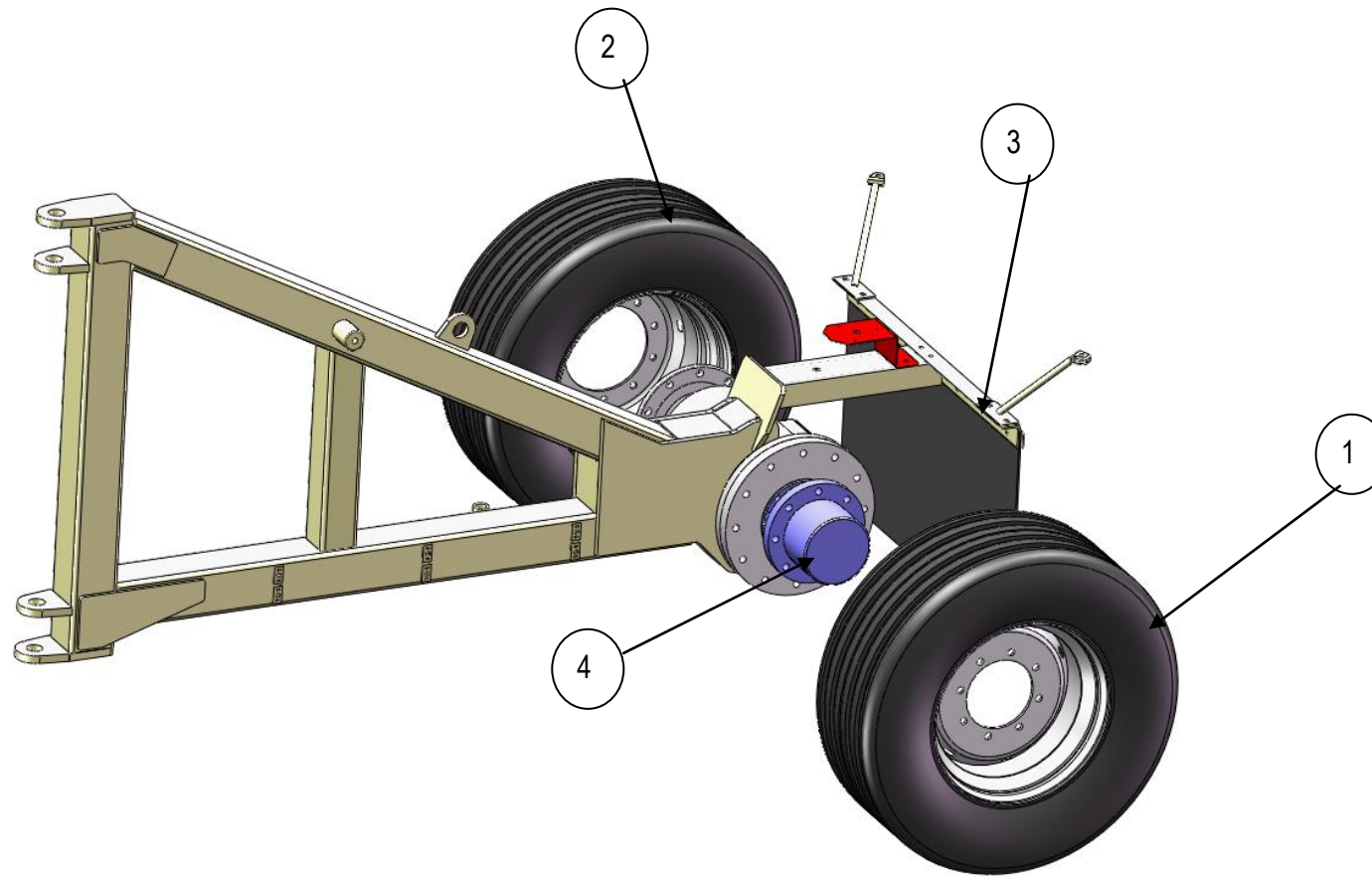
SPARE PARTS



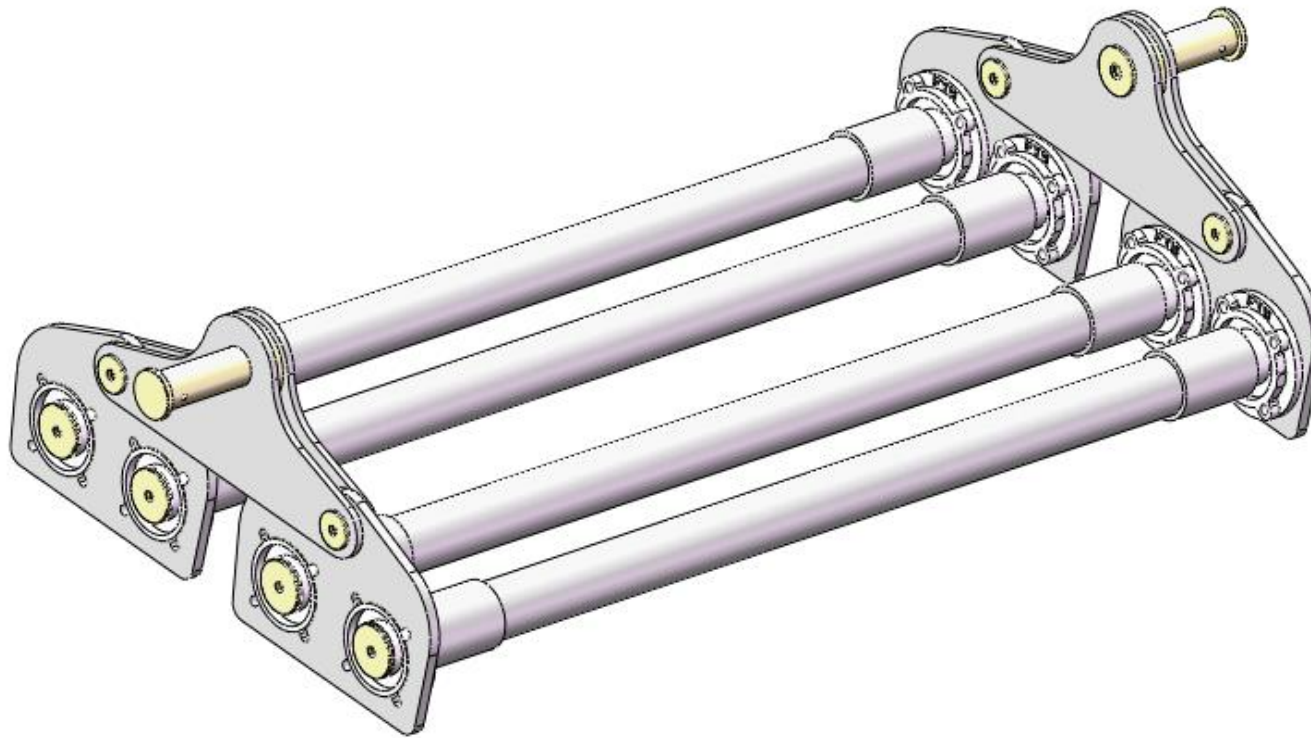
OUTER HEAD SECTION TS-1242

SPARE PARTS

ITEM	PART CODE	DESCRIPTION	QTY
1	10.10.0025	Les Bearing	16
2	Duro Flex Linear 90	Scraper	1
3	10.10.0031	Sheave Pulley Bearing	1
4	15.30.0066	Spiral Return Roller	1
5	15.30.0067	Plain Return Roller	2
6	Rulmeca 127/25	Centre Roller	11
7	Rulmeca 127/25	Wing Roller	22

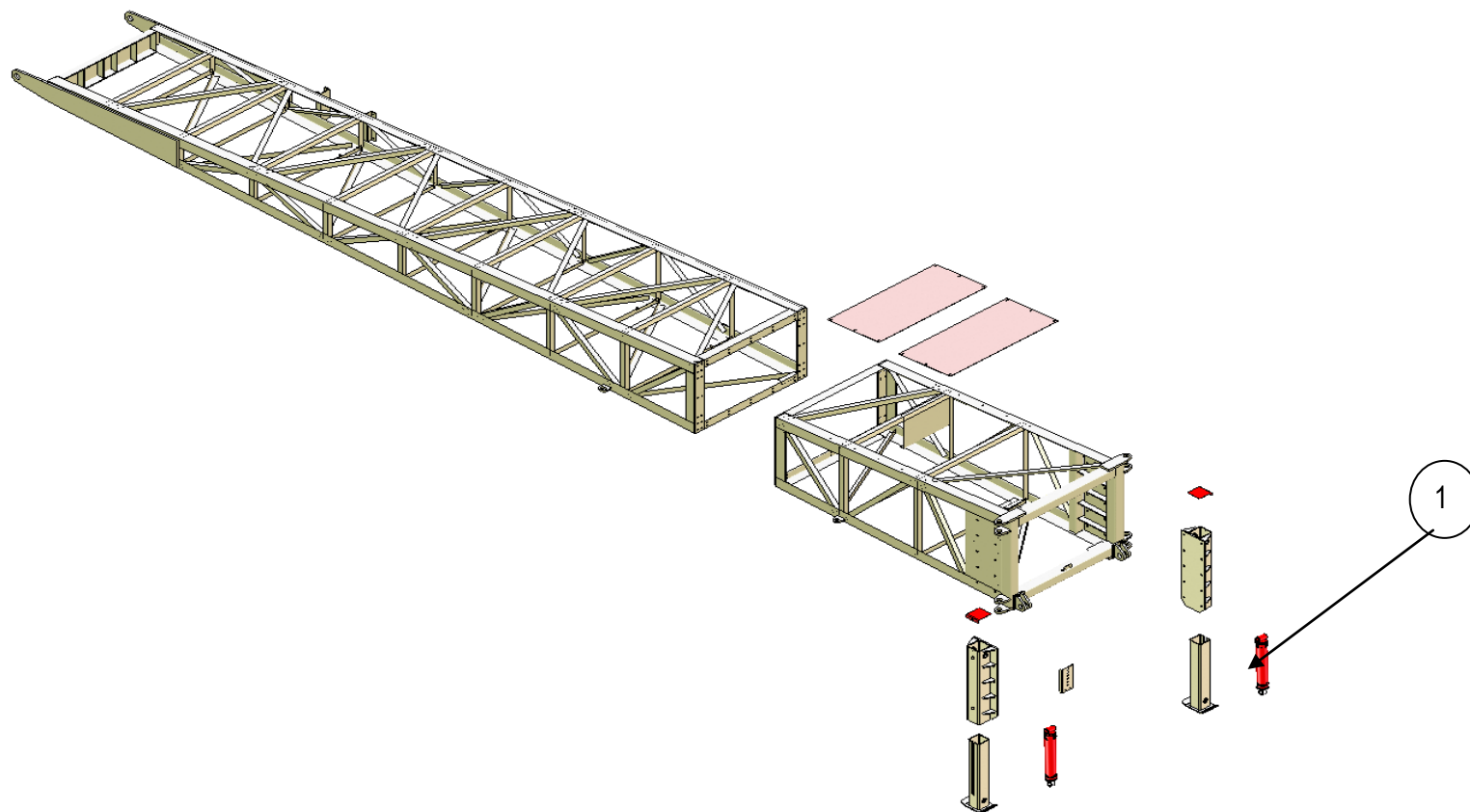


ITEM	PART CODE	DESCRIPTION	QTY
1	20.10.0079	8 Stud Wheel Complete	1
2	20.10.0078	10 Stud Wheel Complete	1
3	20.10.0043	Telestack Mud flap	1
4	19.10.0010	Wheel Drive	1



ITEM	PART CODE	DESCRIPTION	QTY
1	S1	Roller Bars	4
2	10.10.0025	Les Flange Bearings	8

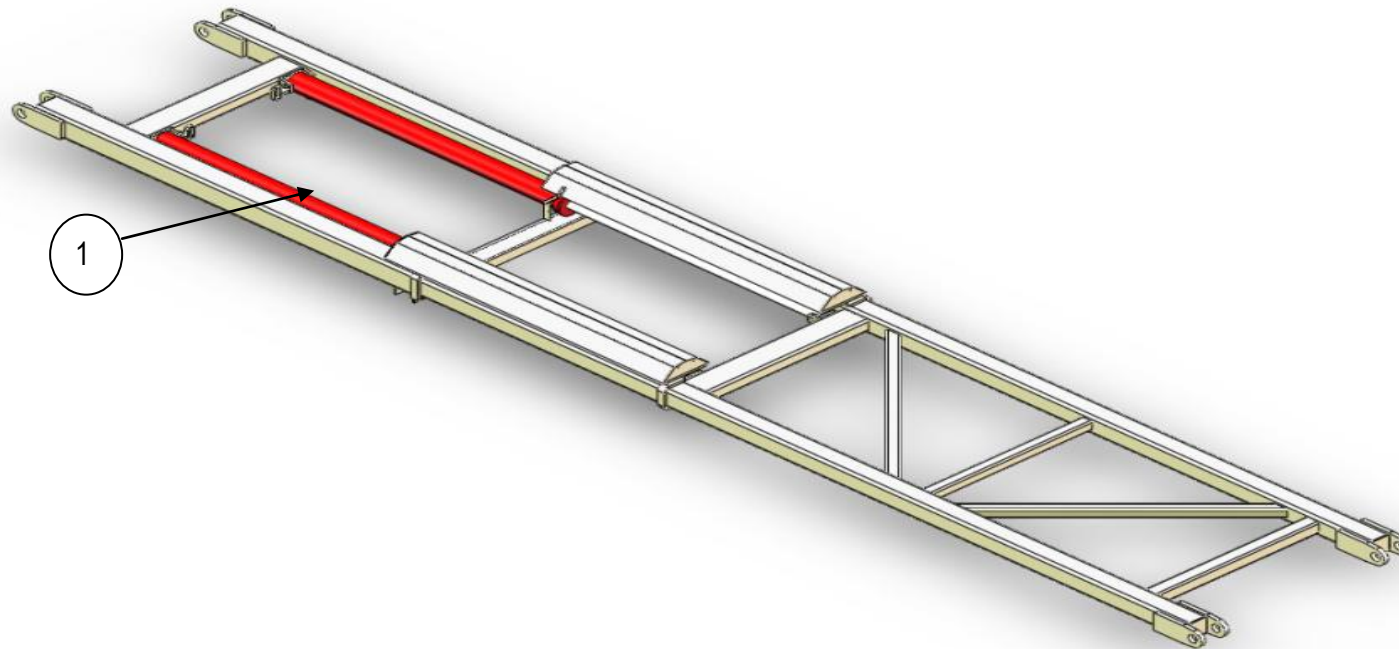
SPARE PARTS



ITEM	PART CODE	DESCRIPTION	QTY
1	19.20.0051	Jacking Ram	2

UNDERCARRIAGE & JACKING RAMS

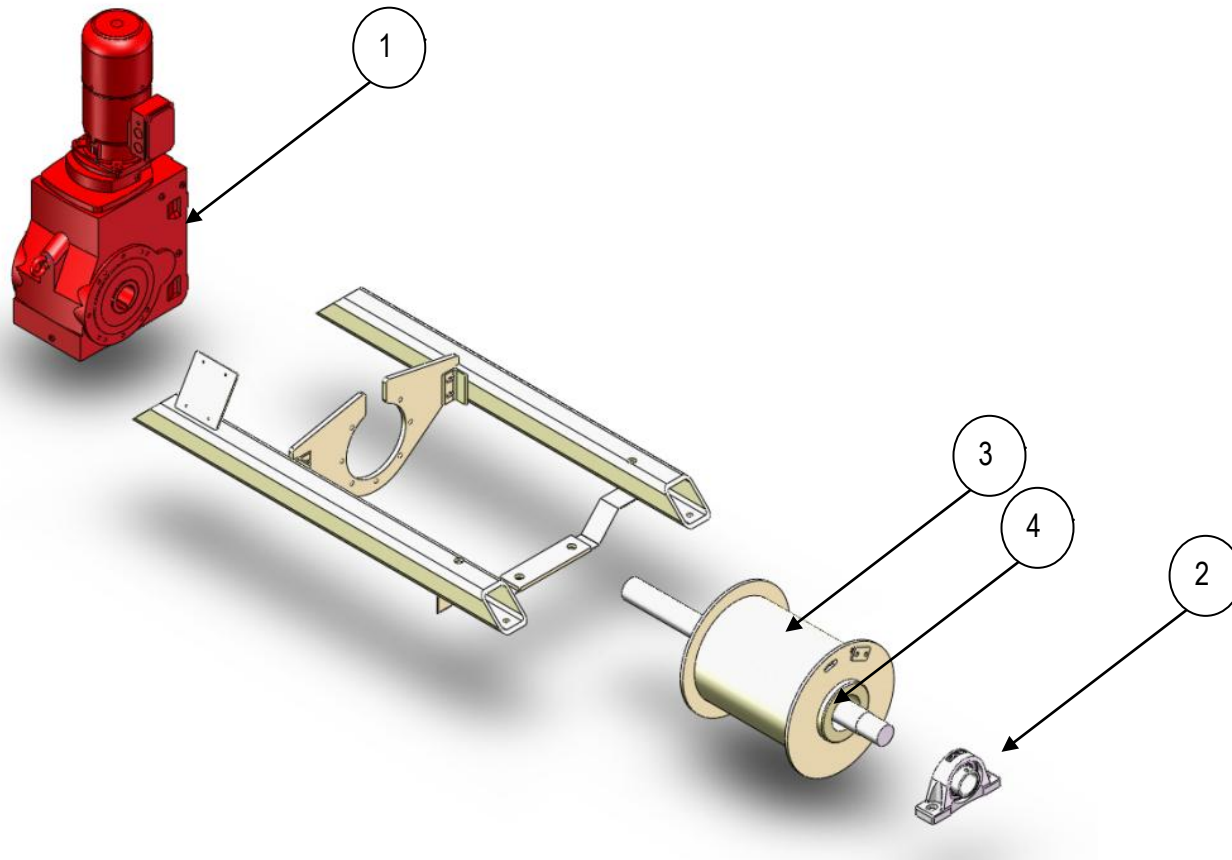
SPARE PARTS



TELESCOPIC SECTION TS-1242

ITEM	PART CODE	DESCRIPTION	QTY
1	1242.10.0002	TELESCOPIC RAM	2

SPARE PARTS




ITEM	PART CODE	DESCRIPTION	QTY
1	3kw Braked Marine Spec	Winch Motor	1
2	10.10.0041	65mm Pillow Block Bearing	1
3	842.07.157	Winch Drum	1
4	14.10.0006	Fenlock	2

Winch Drum & Motor TS-1242



8.1 ADDITIONAL SPARES

Image		Description
	Supplied by Customer	Outer Conveyor Belt
	Supplied by Customer	Inner Conveyor belt
	40.21.0089	10" Sight Level Gauge
	39.10.0003	Elbow Adaptor
	39.10.0002	Adaptor 1/4 to 1/8
	29.11.0001	10mm Wire Rope
	29.11.0002	16mm Wire Rope
	29.11.0003	16mm Wire Rope

8.2 POWER KIT

Image		Description
	S1- HYD	Hydraulic Power Pack
	19.10.0010	Wheel Drive

8.3 AXLE KIT

Image		Description
	20.10.0078	10 Stud Wheel
	20.10.0079	8 Stud Wheel to suit Gearbox

9. CE CERTIFICATE Declaration of Conformity

Manufacturers Name: Telestack Ltd

Manufacturers Address: Bankmore Way East,
Omagh,
Co. Tyrone,
N. Ireland
BT79 0NZ



Declares that the following information in relation to this product is in conformity with the stated standards and other related documents following the provision of the European Directive on Machinery Safety 98/37/EC

Product Name: Telestack Mobile Telescopic Conveyor

Model: TS- 1242

Serial No: 10-0144

The following standards have been applied:

<i>BS 7300:1990</i>	<i>Safeguarding of hazard points on troughed belt conveyors</i>
<i>BS EN 953:1997</i>	<i>Safety of Machinery - Guards</i>
<i>BS EN 294:1992</i>	<i>Safety distances for the upper limbs</i>
<i>BS EN 292:1991</i>	<i>Safety of Machinery – Basic Concepts</i>
<i>BS EN 418: 1992</i>	<i>Safety of Machinery – Emergency Stop Equipment</i>
<i>BS EN 60204:1997</i>	<i>Safety of Machinery – Electrical Equipment of Machines</i>

This product must be installed, tested, commissioned and operated in accordance with Telestacks instructions. Only Telestack recommended spare parts must be used for maintenance purposes within the warranty period.

Signed: _____

Sean O Neill
Design Engineer
Telestack Ltd



Date: 29/08/2012

10. WARRANTY

Telestack Limited (hereafter referred to collectively as “**Seller**”) warrants its new equipment and parts manufactured and sold worldwide, to be free, under normal use and service, of any defects in manufacture or materials for a period of (i) 12 months from date the Equipment is first placed into service, whether such Equipment is sold, rented or leased or (ii) 2,000 hours of use, whichever first occurs; provided that in no event shall this warranty extend beyond a period of 18 months from the date of shipment from the factory; and further provided that (1) Seller receives written notice of any defect within sixty (60) days of its discovery and Buyer establishes that (i) the equipment has been maintained and operated within the limits of rated and normal usage; and (ii) the defect did not result in any manner from the intentional or negligent action or inaction by Buyer, its agents or employees and (2) a Warranty Validation Report has been completed, signed and returned to Seller within thirty (30) days of the equipment’s “in-service” date. If requested by Seller, Buyer must return the defective equipment to Seller’s manufacturing facility, or other location designated by Seller, for inspection, and if Buyer cannot establish those conditions (1) (i) and (1) (ii) above have been met, then this warranty shall not cover the alleged defect.

Seller’s obligation and liability under this warranty is expressly limited to, at Seller’s sole option, repairing or replacing, with new or re-manufactured parts or components, any part, which appears to Seller upon inspection to have been defective in material or workmanship. Such parts shall be provided at no cost to the owner. If requested by Seller, components or parts for which a warranty claim is made shall be returned to Seller at a location designated by Seller at Buyer’s cost. All components and parts replaced under this limited product warranty become the property of Seller.

This warranty shall be null and void if parts (including wear parts) other than genuine Telestack parts are used in the equipment. This warranty shall be null and void if any design and/or spec changes/upgrades have been made to the equipment without written, detailed, signed approval from an authorised officer of Seller.

Accessories, assemblies and components included in the Seller’s equipment, which are not manufactured by Seller, are subject to the warranty of their respective manufacturers. Normal maintenance, adjustments, or maintenance/wear parts, including without limitation, proper tightening of bolts, nuts and pipe fittings, adding or replacing of fluids, filters, belts, skirting, chute linings and paint, are not covered by this warranty and are the sole maintenance responsibility of Buyer.

SELLER MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE

No employee or representative is authorized to modify this warranty unless such modification is made in writing and signed by an authorised officer of Seller. Seller's obligation under this warranty shall not include duty, taxes, environmental fees, including without limitation, disposal or handling of tyres, batteries, petro-chemical items, or any other charges whatsoever, or any liability for direct, indirect, incidental, or consequential damages.

Improper maintenance, improper use, abuse, improper storage, operation beyond rated capacity, operation after discovery of defective or worn parts, accident, sabotage or alteration or repair of the equipment by persons not authorized by Seller shall render this warranty null and void. Seller reserves the right to inspect the installation of the product and review maintenance procedures to determine if the failure was due to improper maintenance, improper use, abuse, improper storage, operation beyond rated capacity, operation after discovery of defective or worn parts, or alteration or repair of the equipment by persons not authorised by Seller.

Parts Warranty: Seller warrants the parts ordered from the Seller's Spare Parts Department to be free of defect in material or workmanship for a period of 12 months after date of shipment from the factory.

NO TRANSFERABILITY OF WARRANTY: This warranty is limited to the original purchaser or original end-user if sold through a distributor, and is not assignable or otherwise transferable without the written agreement of Seller. Please contact your local distributor for additional details if needed.

ITEMS NOT COVERED BY SELLER WARRANTY

The following items are **NOT** covered under the Seller Warranty (the following list is not exhaustive):

1. Items sold by any individual, corporation, partnership or any other organisation or legal entity that is not an authorised Seller distributor.

2. Components which are not manufactured by Seller are not covered by Seller's warranty. Such components are covered only by the warranty that is provided by the manufacturer of such components. Such components may include, but are not limited to, engines, engine components, and customer supplied products.

3. Replacement of assemblies: Seller has the option to repair or replace any defective part or assembly. It is Seller's policy to refuse claims for the replacement of a complete assembly that is field repairable by the replacement or repair of defective part(s) within the assembly.

4. Normal Operational Maintenance Services and Wear Parts: Maintenance services and wear parts are excluded from warranty claims. Maintenance services and wear parts **not covered** include, but are not limited to, such items as: proper tightening of bolts, nuts and pipe fittings, adding or replacing of fluids, filters, belts, skirting, chute linings and paint,

5. Transportation cost and/ or damage: Any damage caused by carrier handling is a transportation claim and should be filed immediately with the respective carrier.

6. Deterioration: Repairs, work required or parts exposed as the result of age, storage, weathering, lack of use, demonstration use, or use for transportation/movement of corrosive chemicals.

7. Secondary Failures: Should the owner or operator continue to operate a machine after it has been noted that a failure has occurred, Seller will not be responsible under the warranty for resultant damage to other parts due to that continued operation.

8. Workmanship of Others: Seller does not accept responsibility for improper installation or labour costs or costs of any kind from personnel other than authorised Seller distributor personnel.

9. Stop and Go Warranty: Seller does not recognize "Stop and Go" warranties.

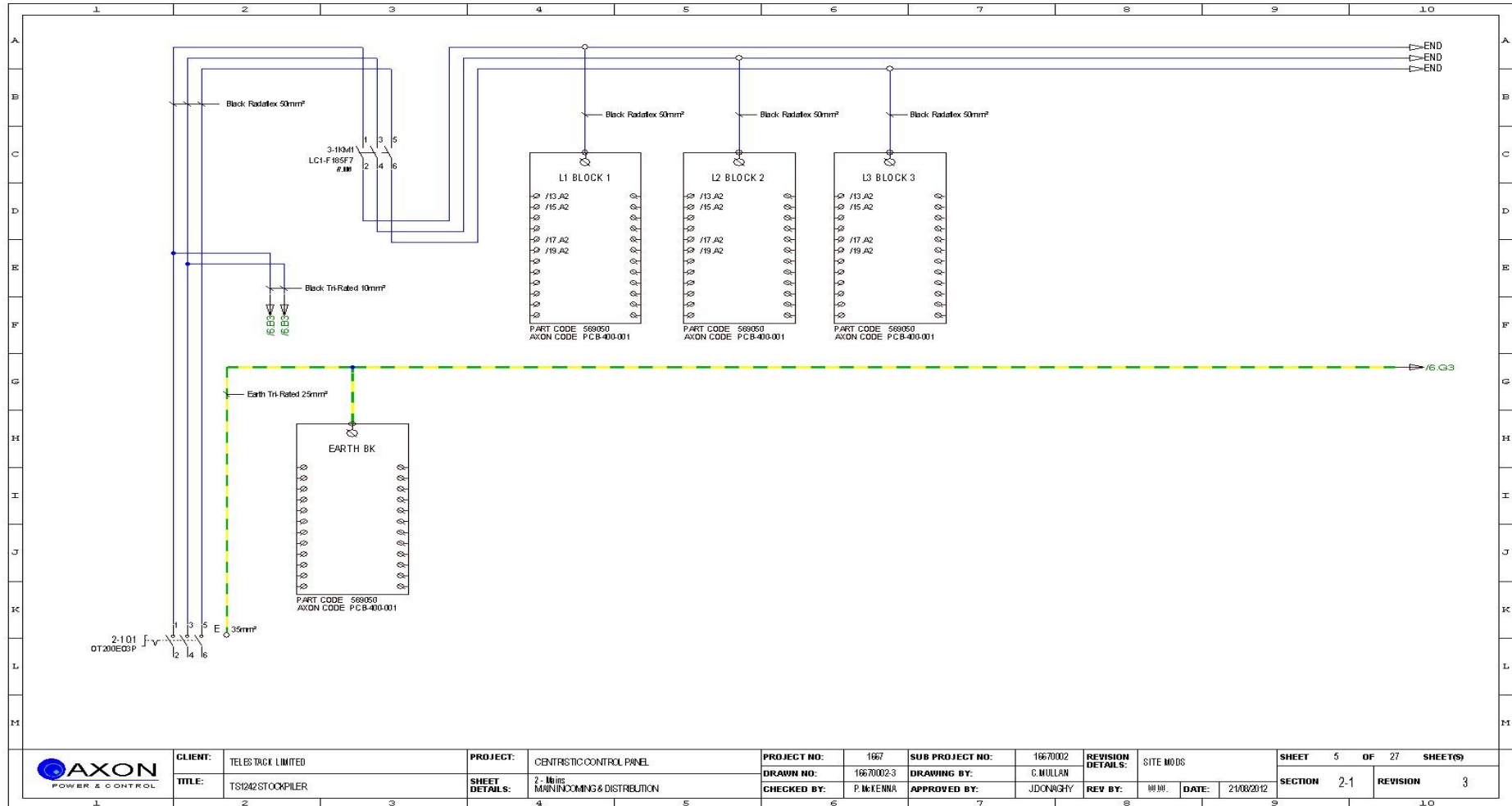
10. Incidental or Consequential Damage: SELLER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF PRODUCTION, INCREASED OVERHEAD, LOSS OF BUSINESS OPPORTUNITY, DELAYS IN PRODUCTION, COSTS OF REPLACEMENT COMPONENTS AND INCREASED COSTS OF OPERATION THAT MAY ARISE FROM THE BREACH OF THIS WARRANTY. Customer's sole remedy shall be limited to (at Seller's sole option) repair or replacement of the defective part.

THIS WARRANTY IS EXPRESSLY IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) AND ALL OTHER OBLIGATIONS OR LIABILITY ON SELLER'S PART. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY CONTAINED HEREIN. Seller neither assumes nor authorises any other person to assume for Seller any other liability in connection with the sale of Seller's equipment. This warranty shall not apply to any of Seller's equipment or any part thereof which has been subject to misuse, alteration, abuse, negligence, accident, acts of God or sabotage. No action by any party shall operate to extend or revive this limited warranty without the prior written consent of Seller. In the event that any provision of this warranty is held unenforceable for any reason, the remaining provisions shall remain in full force and effect.

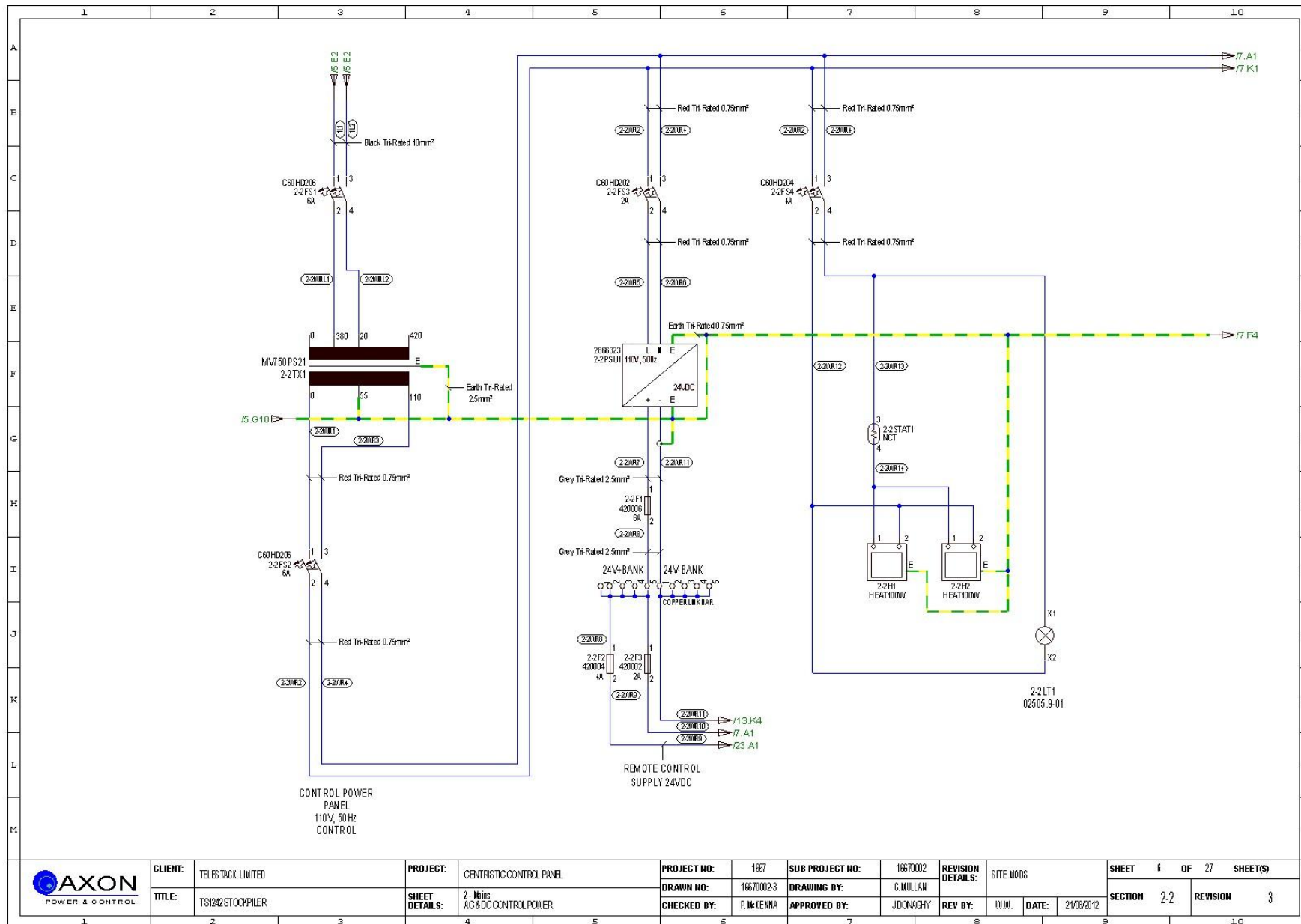
IN THE EVENT OF ANY BREACH OF THE WARRANTY BY SELLER, SELLER'S LIABILITY SHALL BE LIMITED EXCLUSIVELY TO THE REMEDIES (AT SELLER'S SOLE OPTION) OF REPAIR OR REPLACEMENT OF ANY DEFECTIVE EQUIPMENT COVERED BY THE WARRANTY. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL, INDIRECT, CONSEQUENTIAL OR OTHER DAMAGES OR LOSSES RESULTING FROM A BREACH OF WARRANTY INCLUDING, WITHOUT LIMITATION, LABOUR COSTS, LOSS OF USE OF OTHER EQUIPMENT, THIRD PARTY REPAIRS, LOST PROFITS, LOST TIME, TOWING OR HAULAGE OF EQUIPMENT, RENTAL COSTS, PERSONAL INJURY, EMOTIONAL OR MENTAL DISTRESS, IMPROPER PERFORMANCE OR WORK, PENALTIES OF ANY KIND, LOSS OF SERVICE OF PERSONNEL, OR FAILURE OF EQUIPMENT TO COMPLY WITH ANY FEDERAL, STATE OR LOCAL LAW

11. APPENDIX

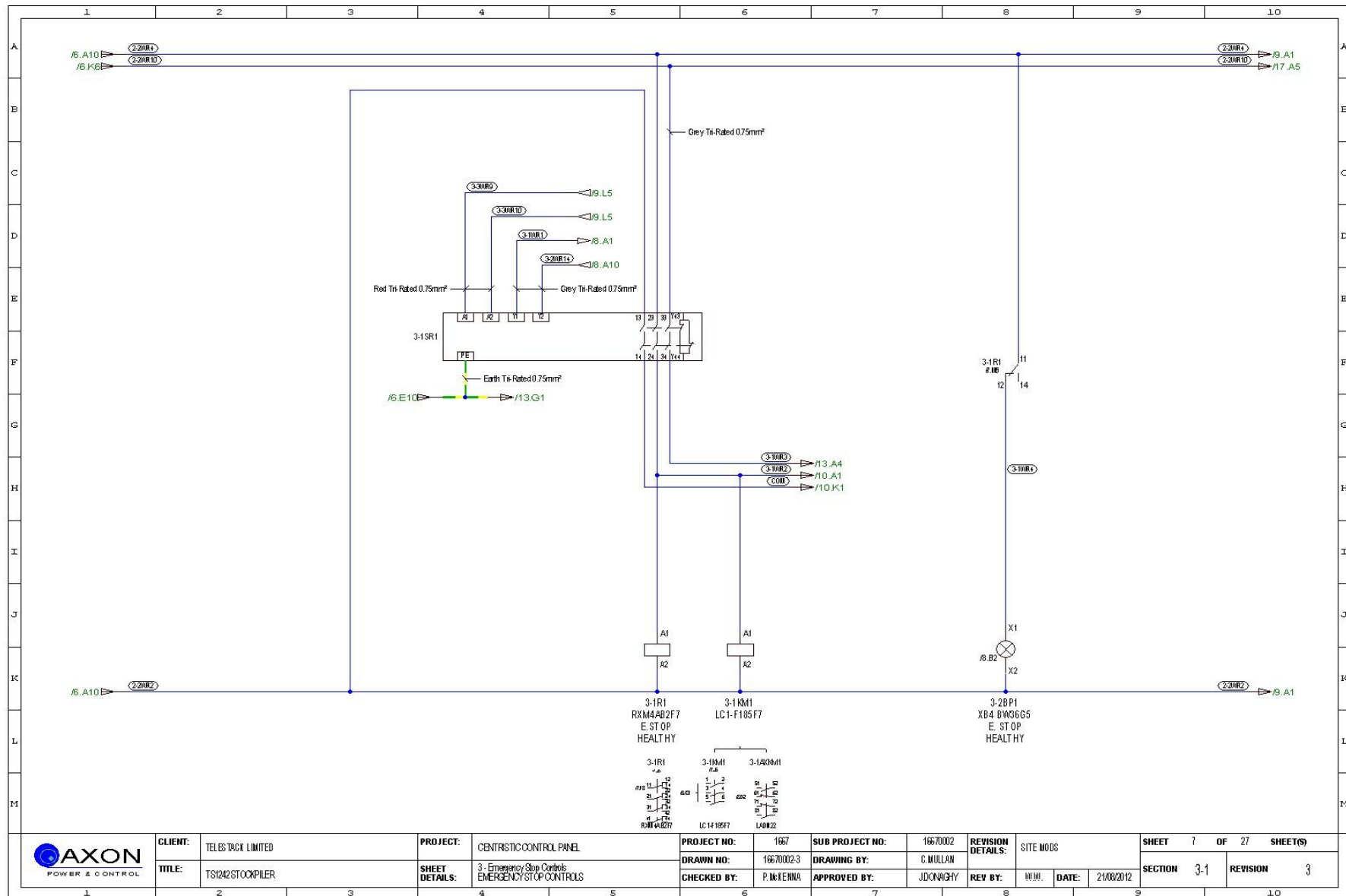
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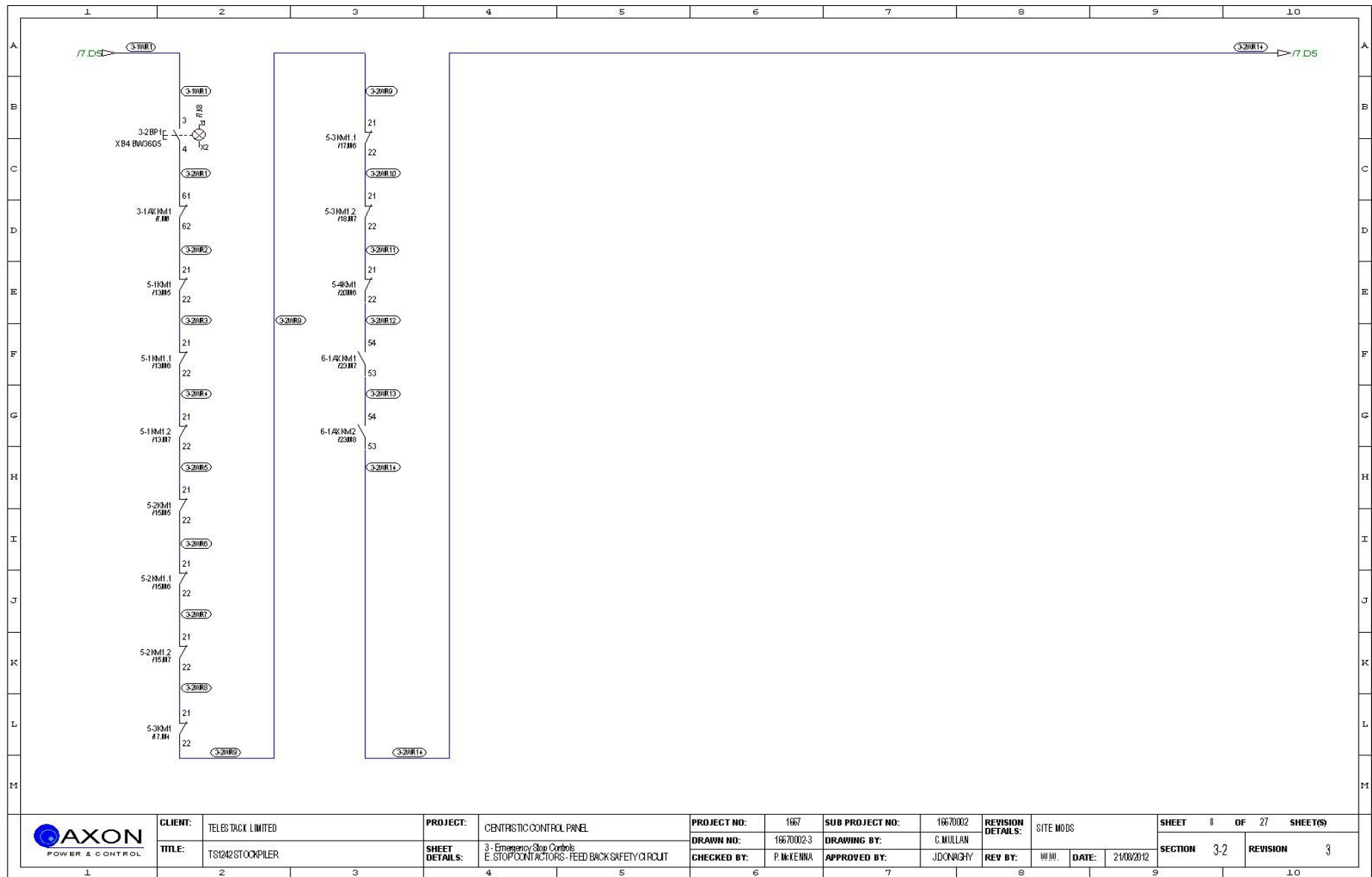
APPENDIX



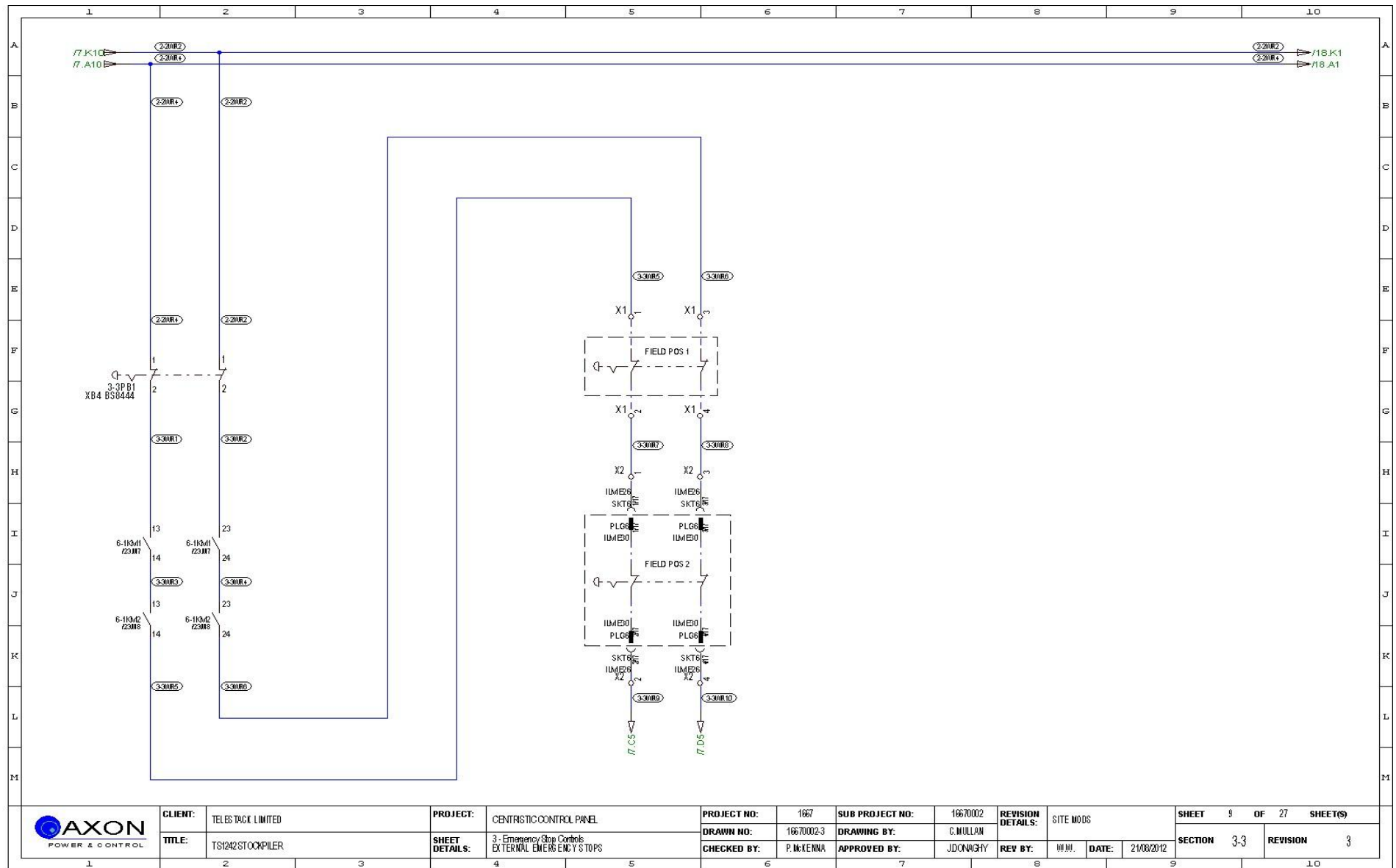
APPENDIX



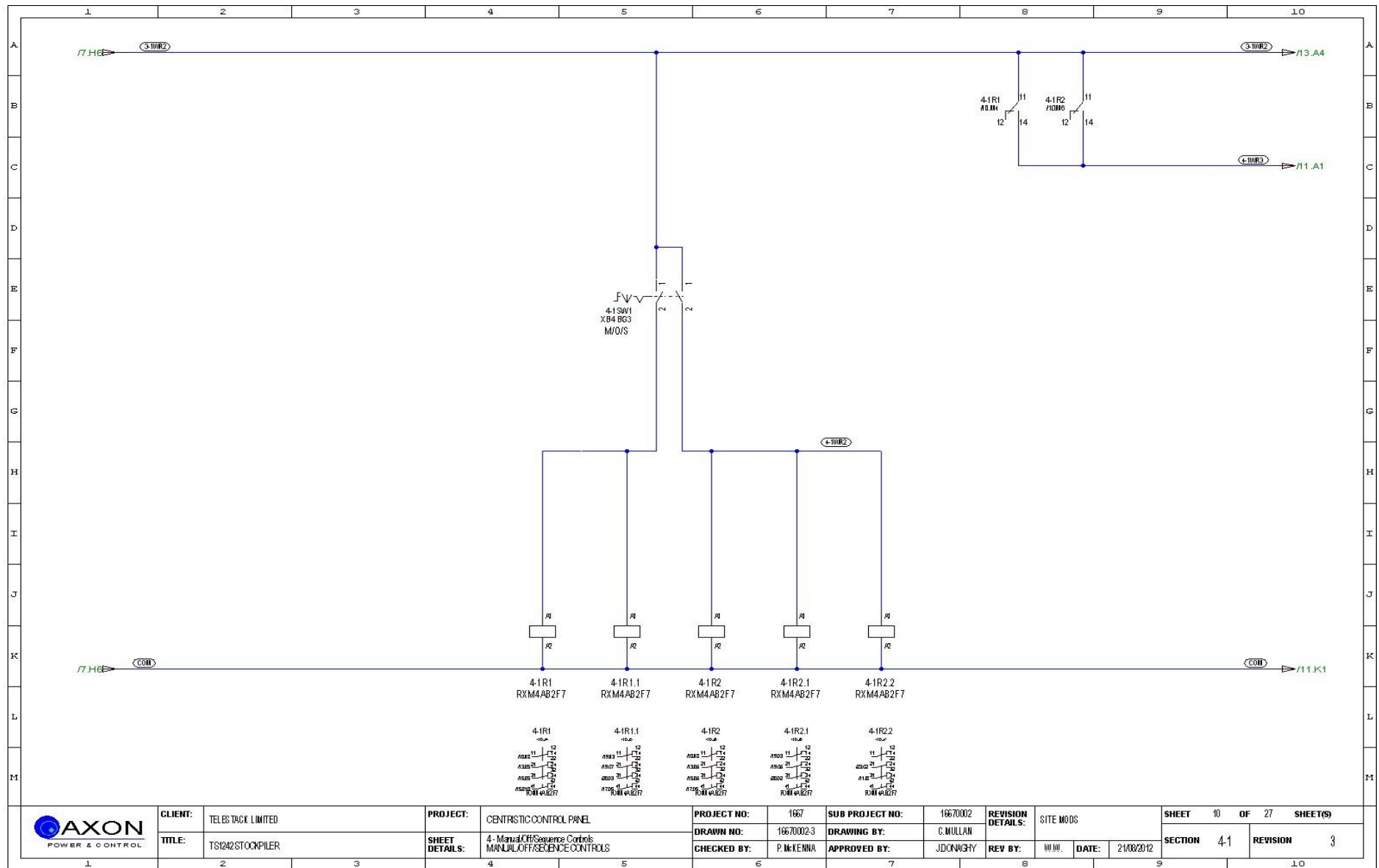
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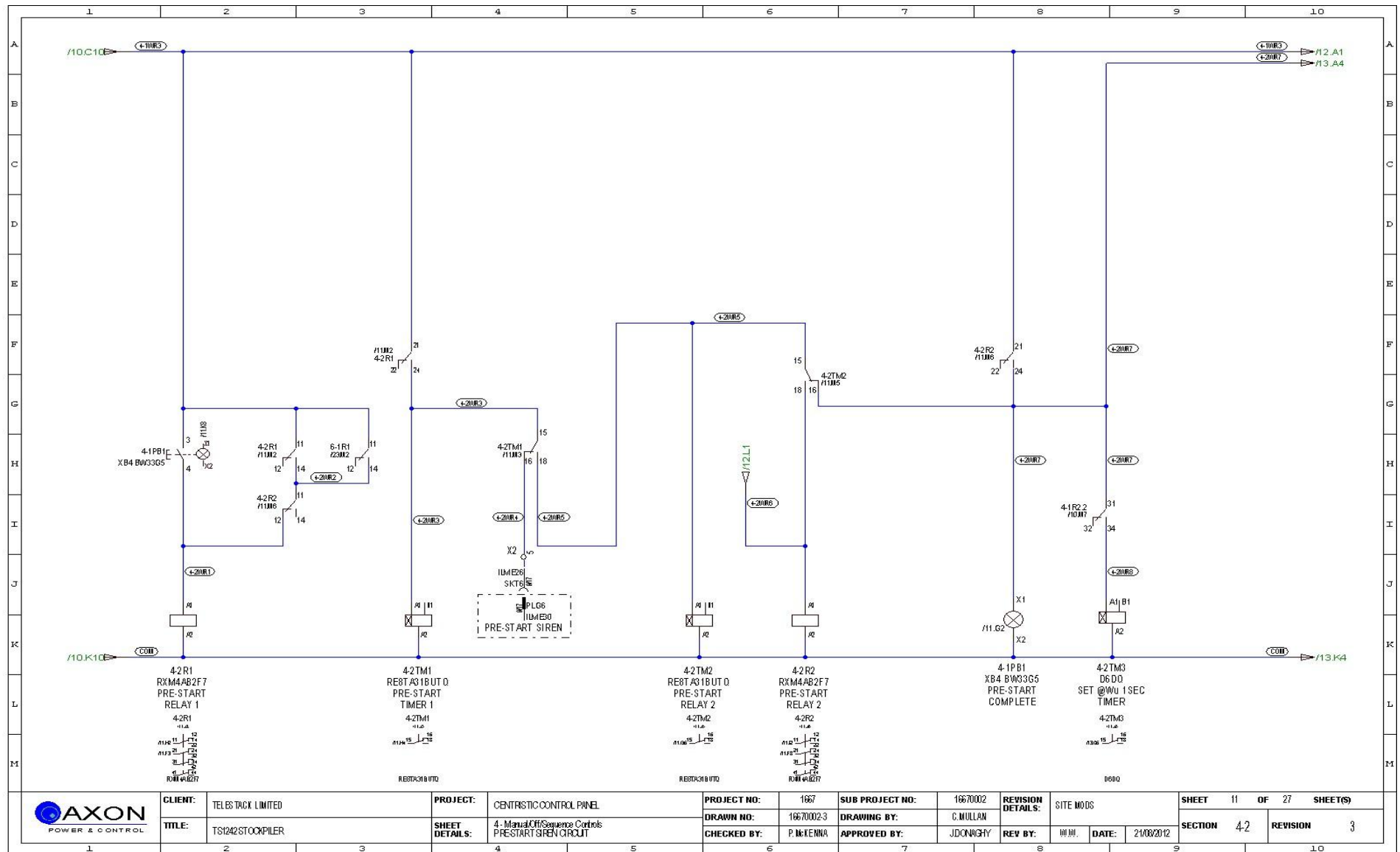
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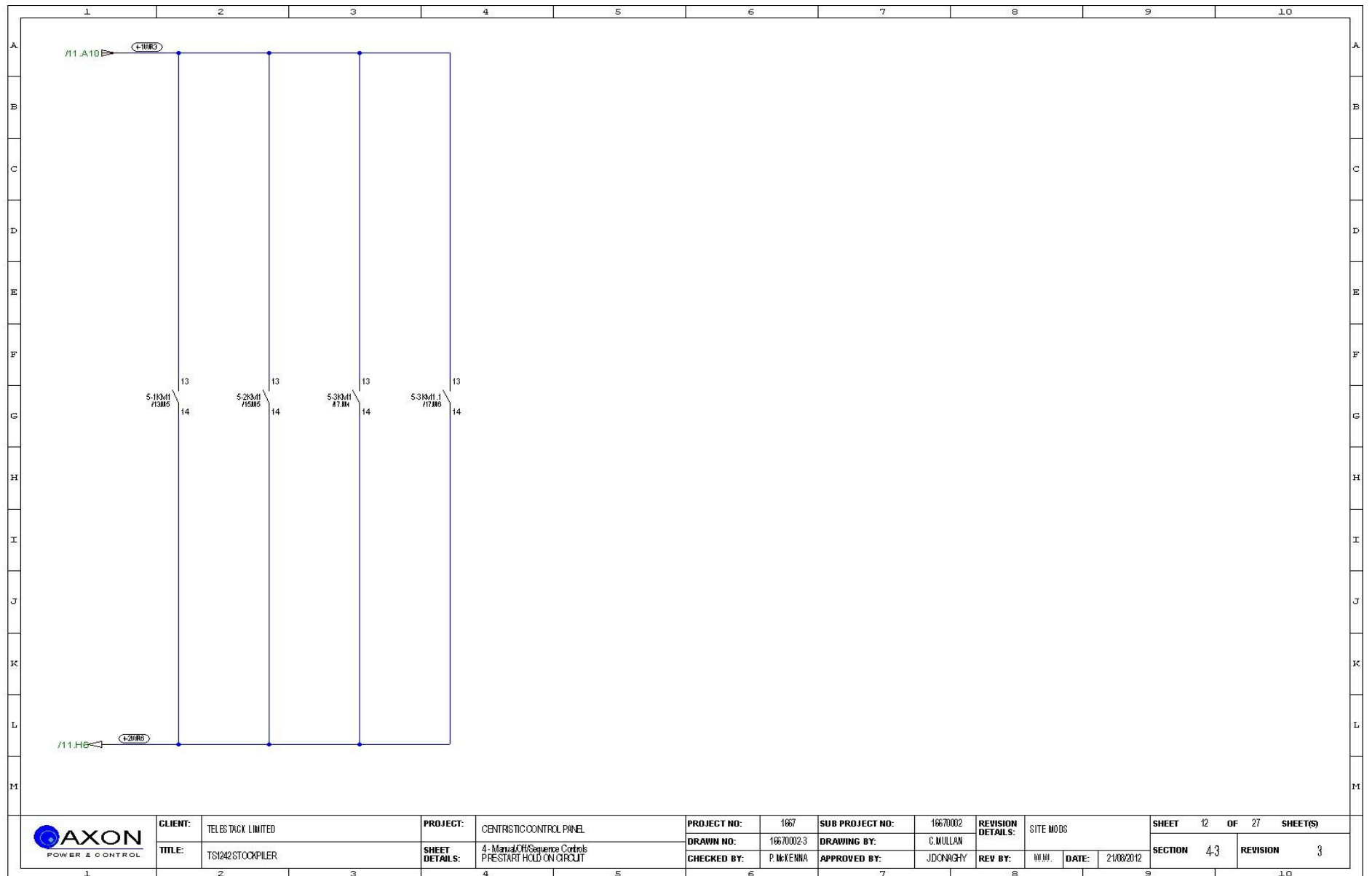
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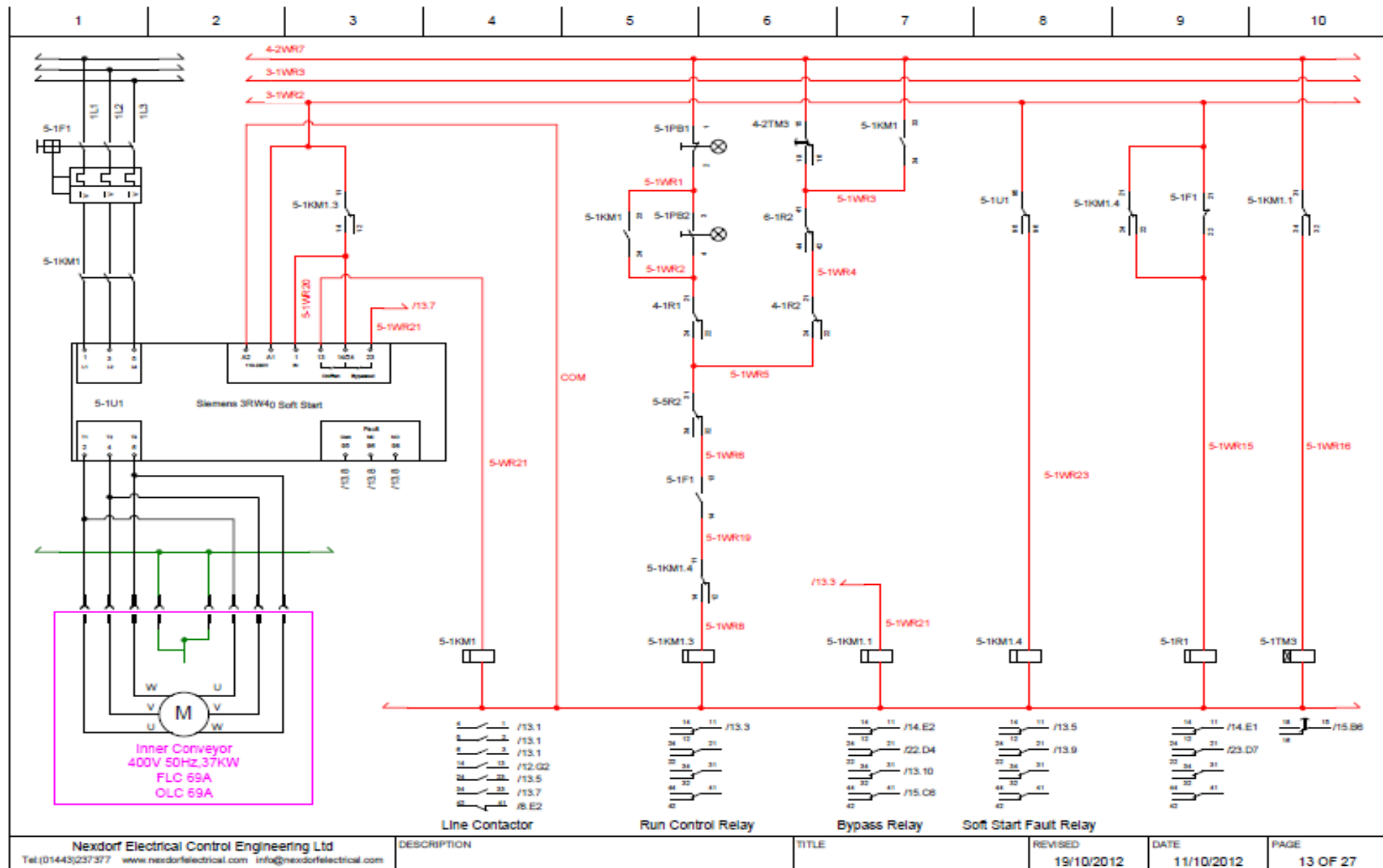
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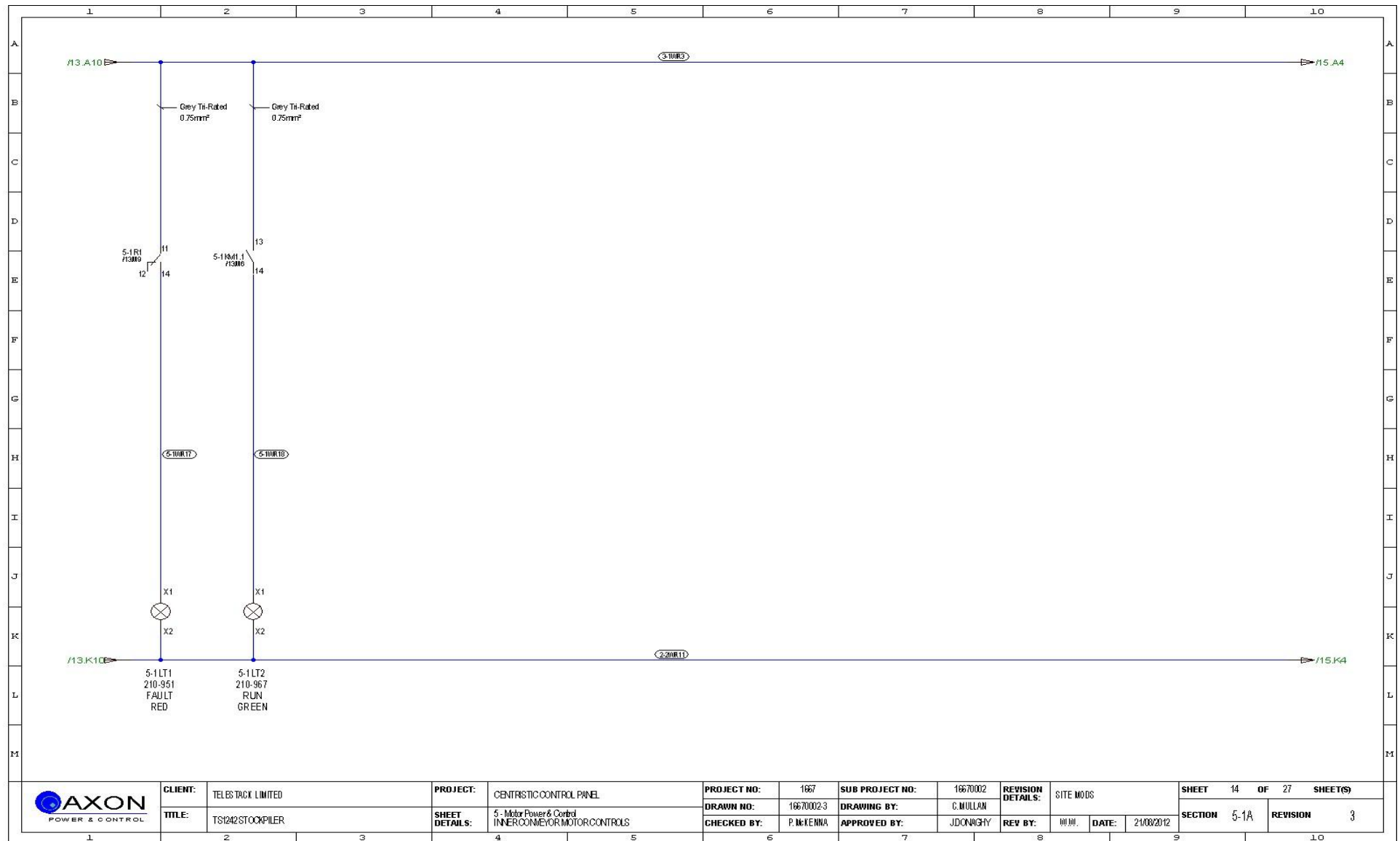
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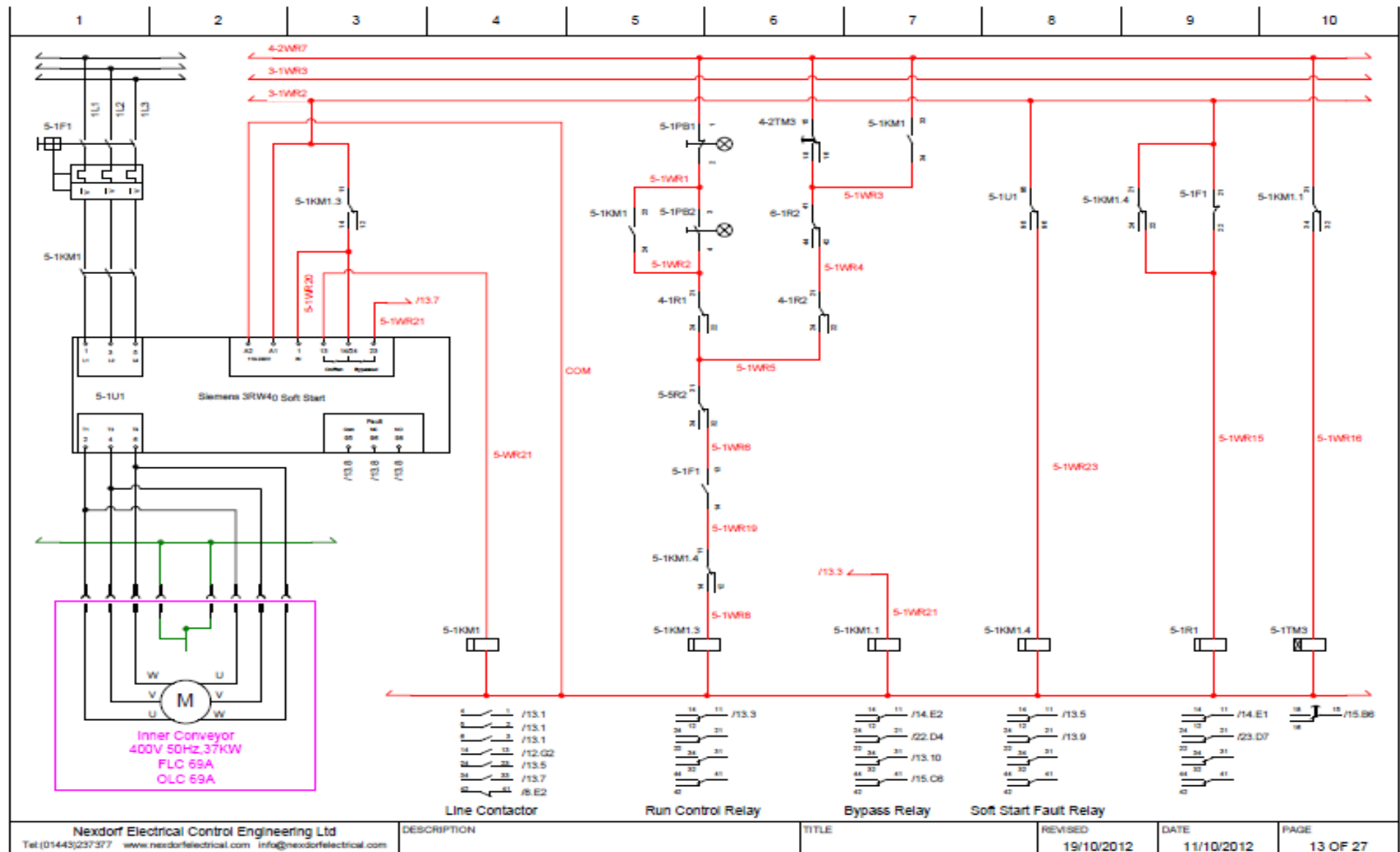
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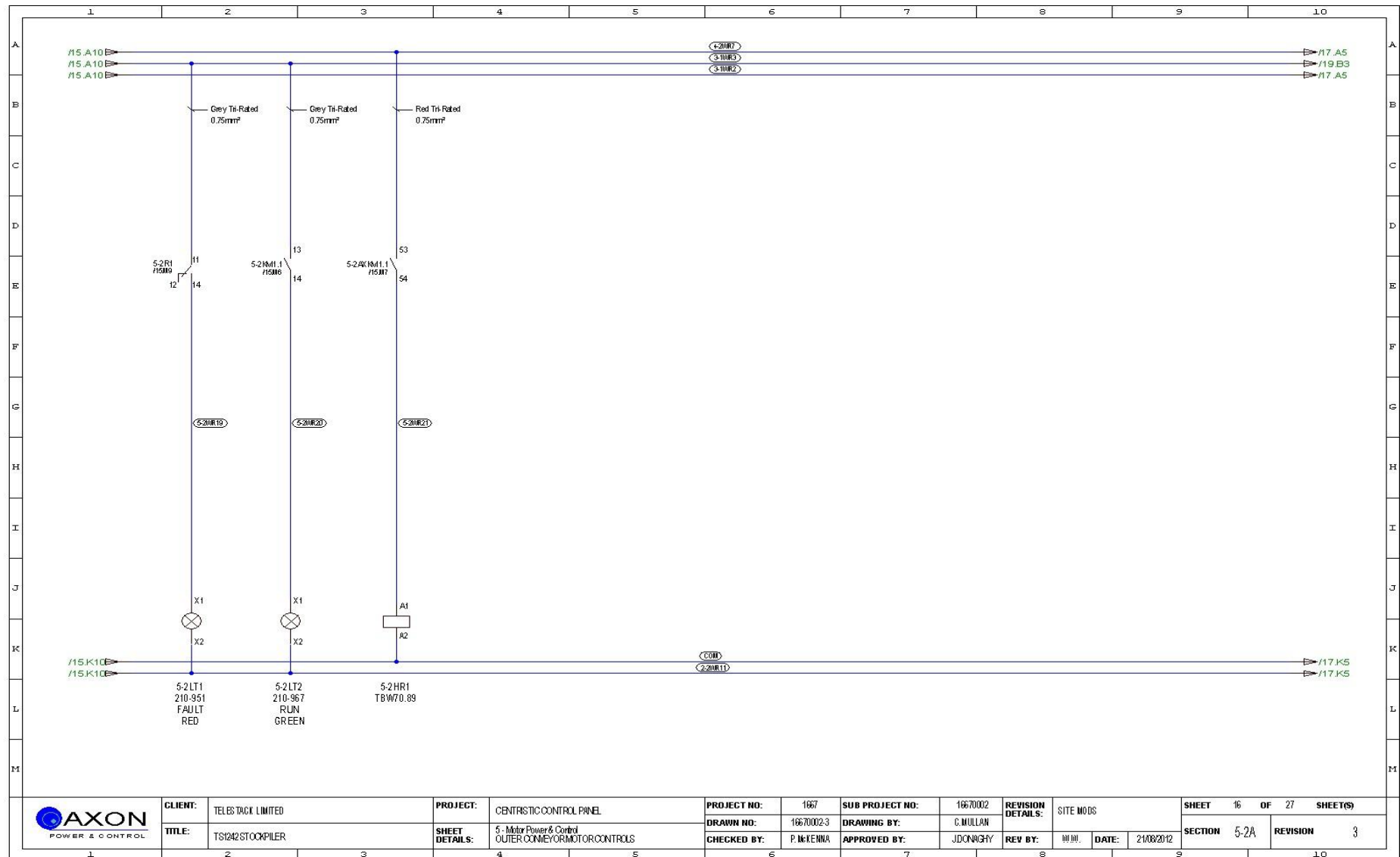
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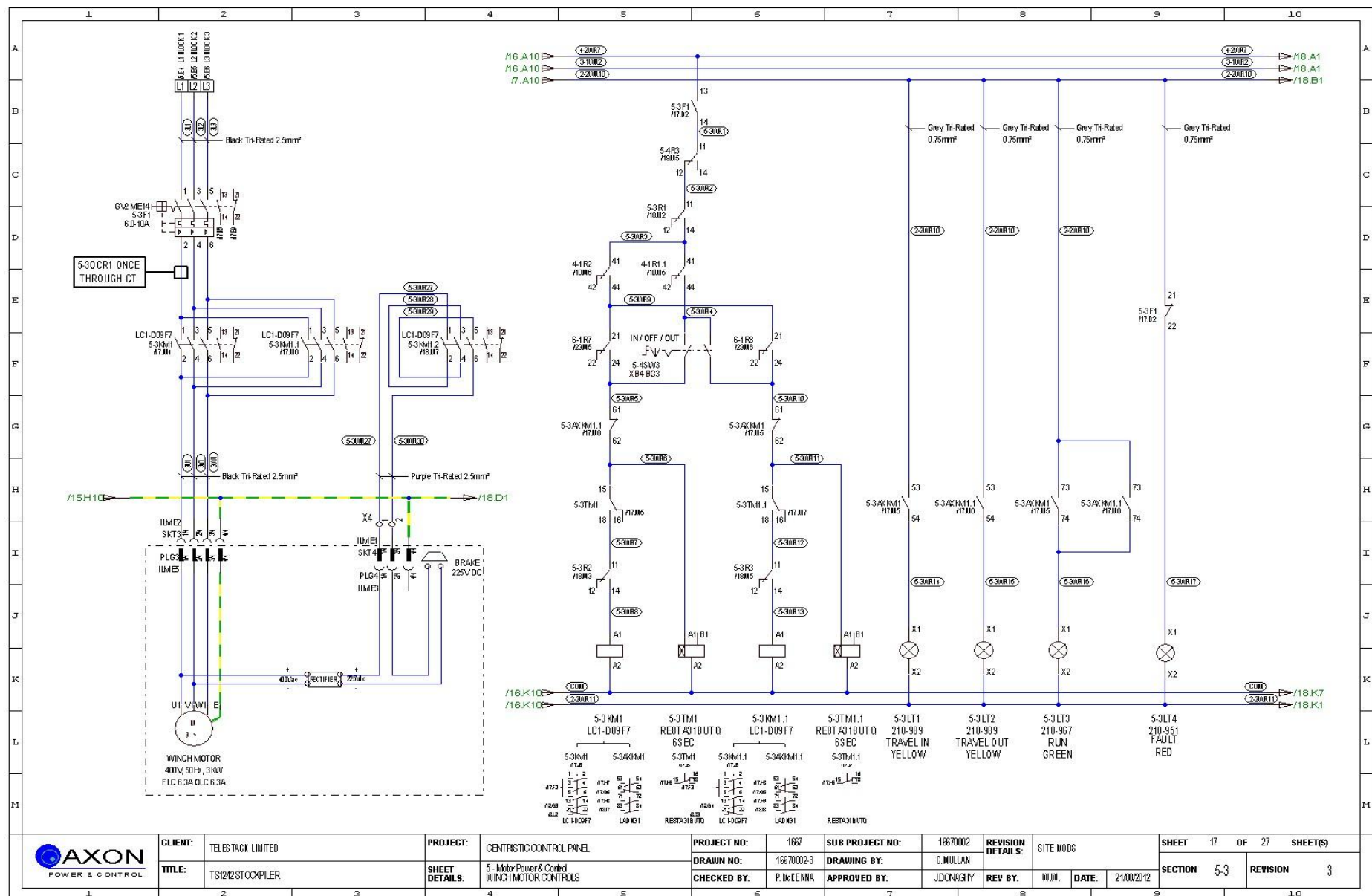
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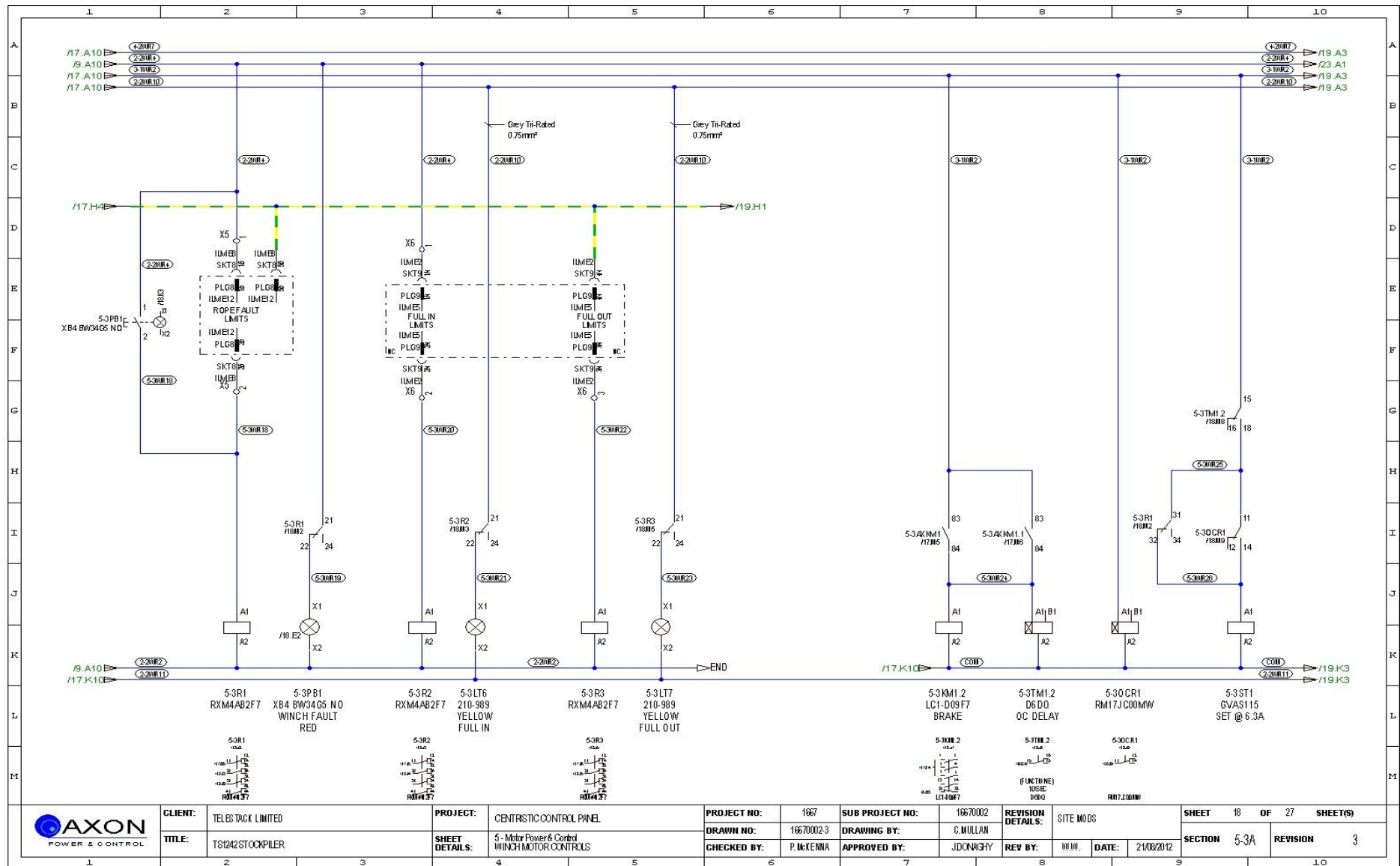
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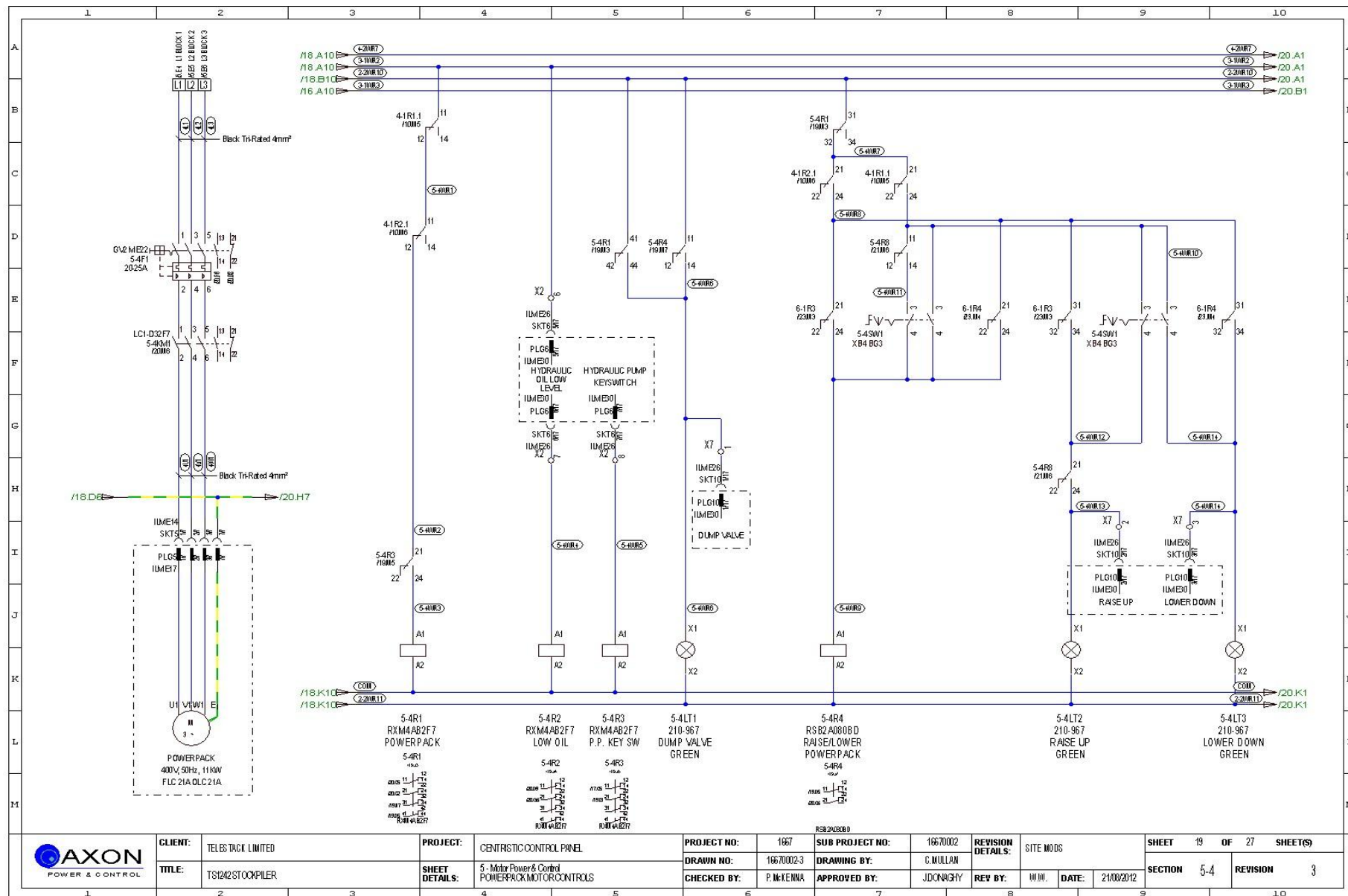
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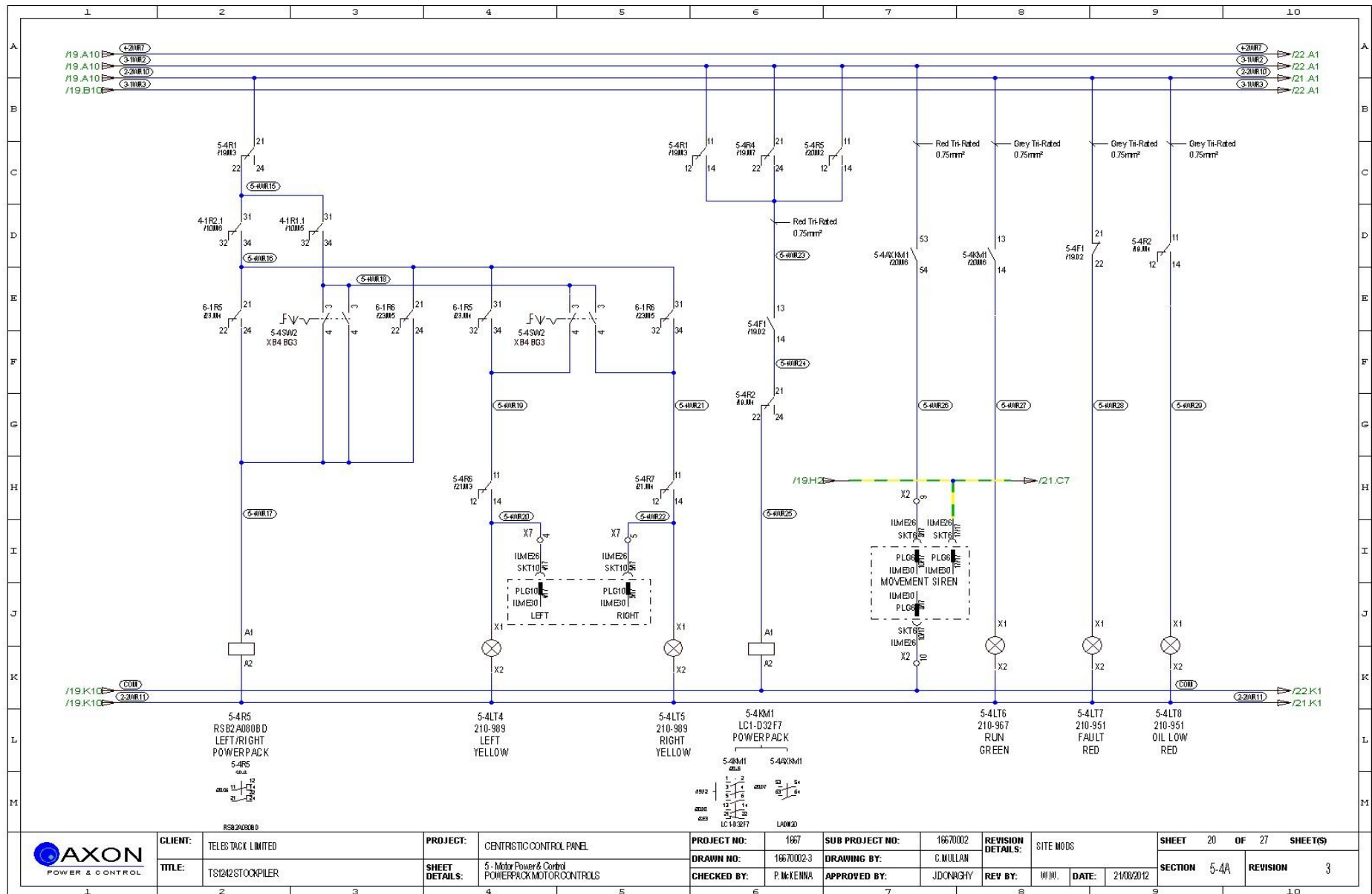
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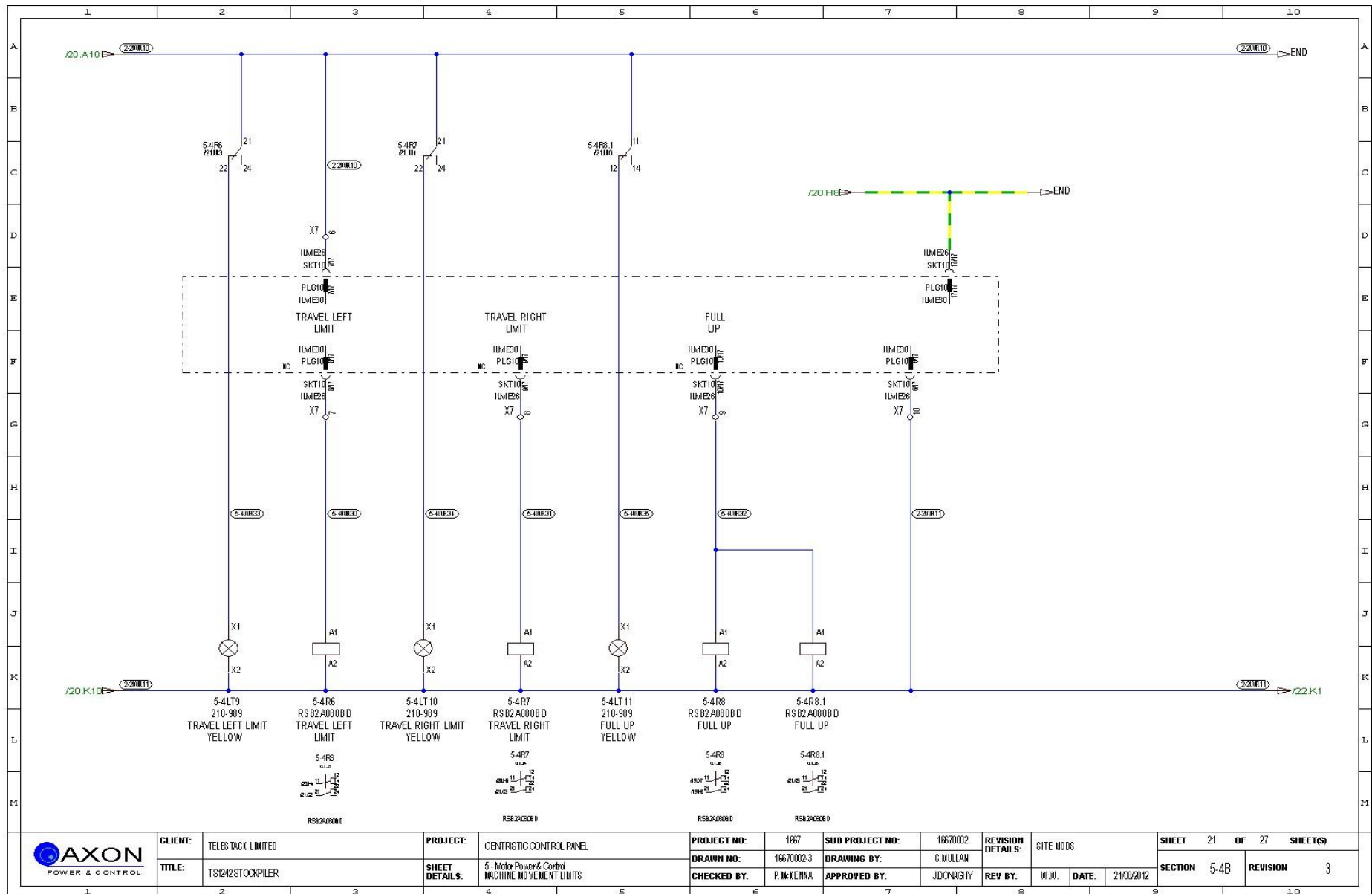
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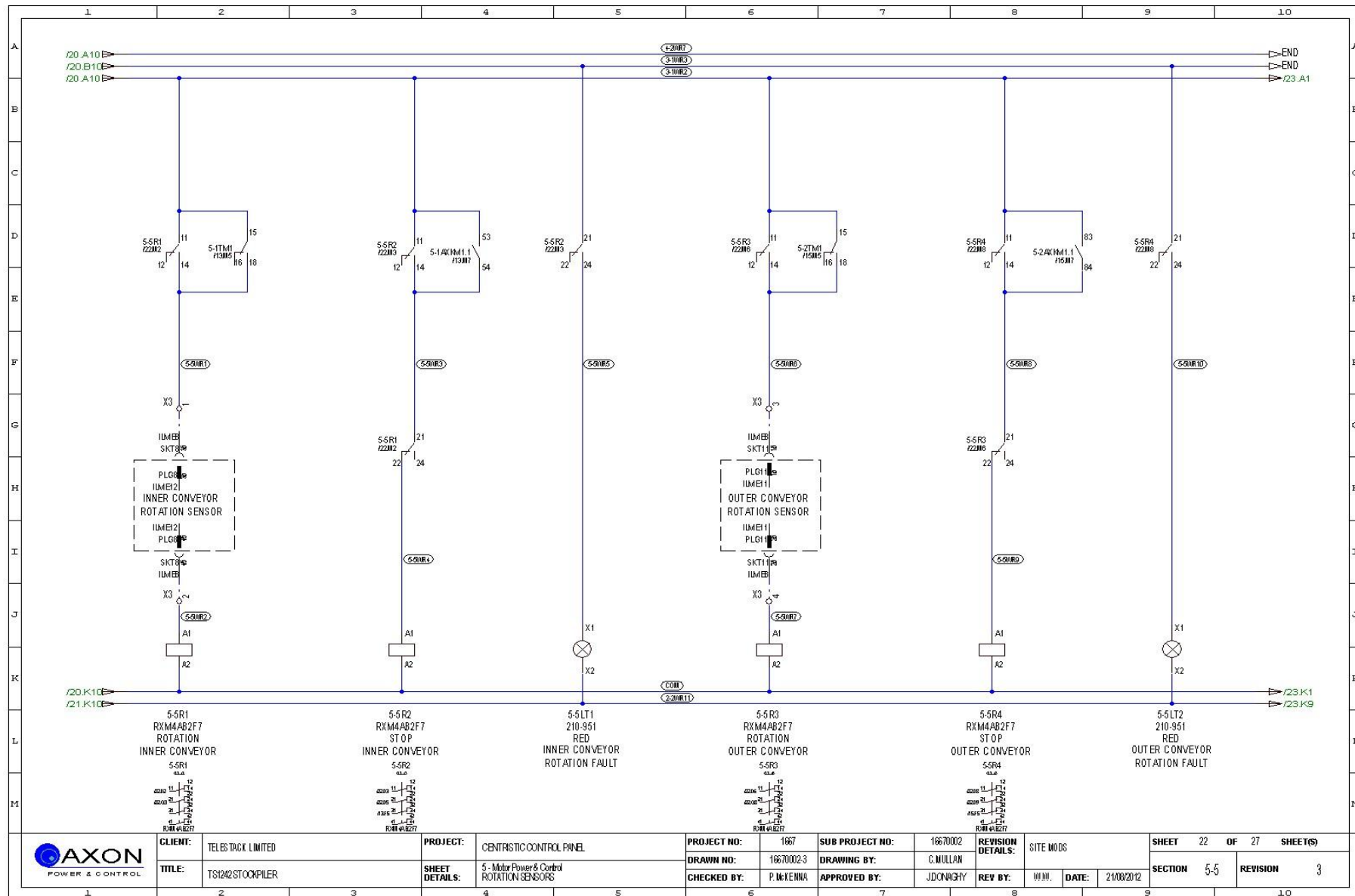
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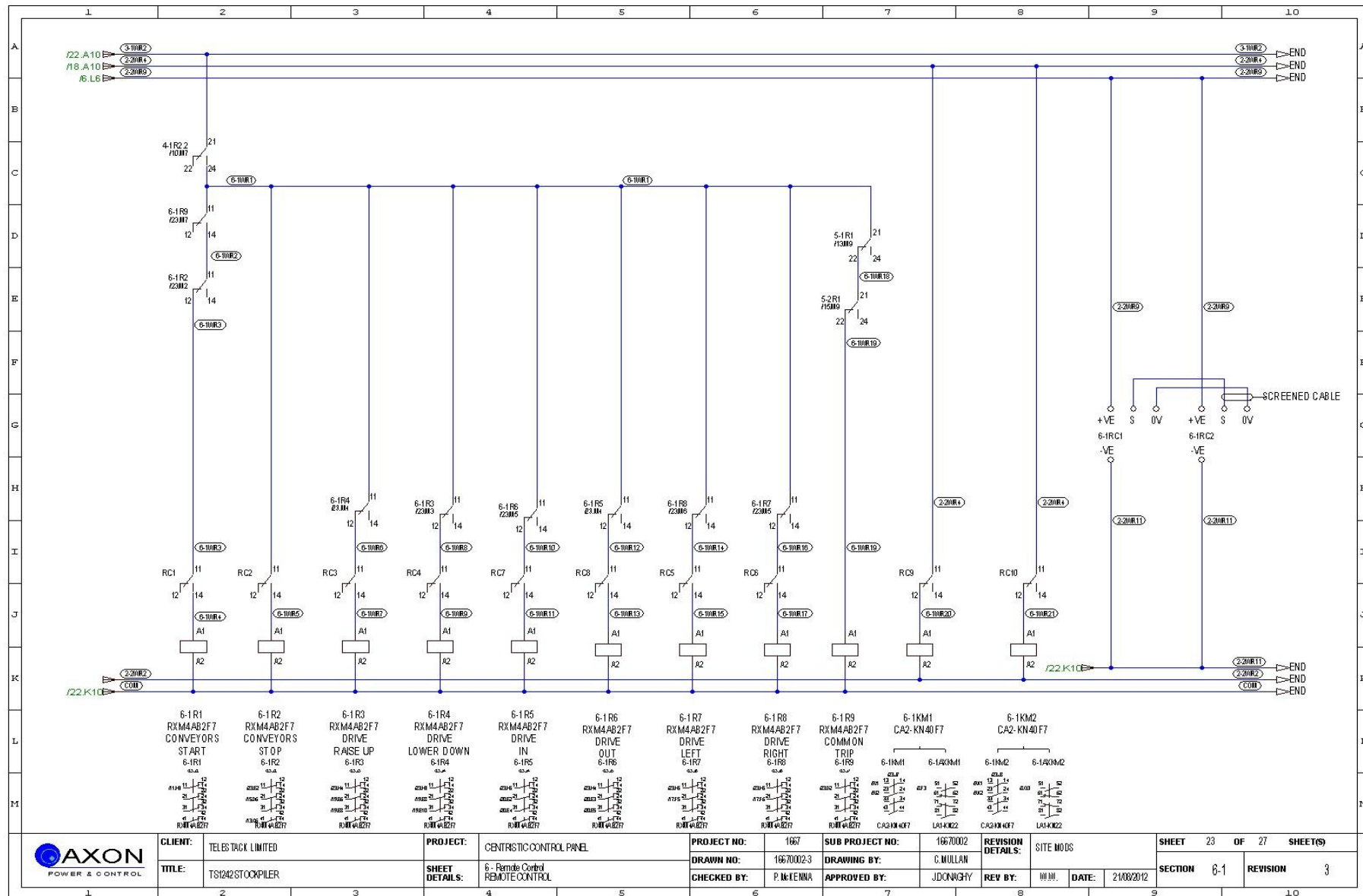
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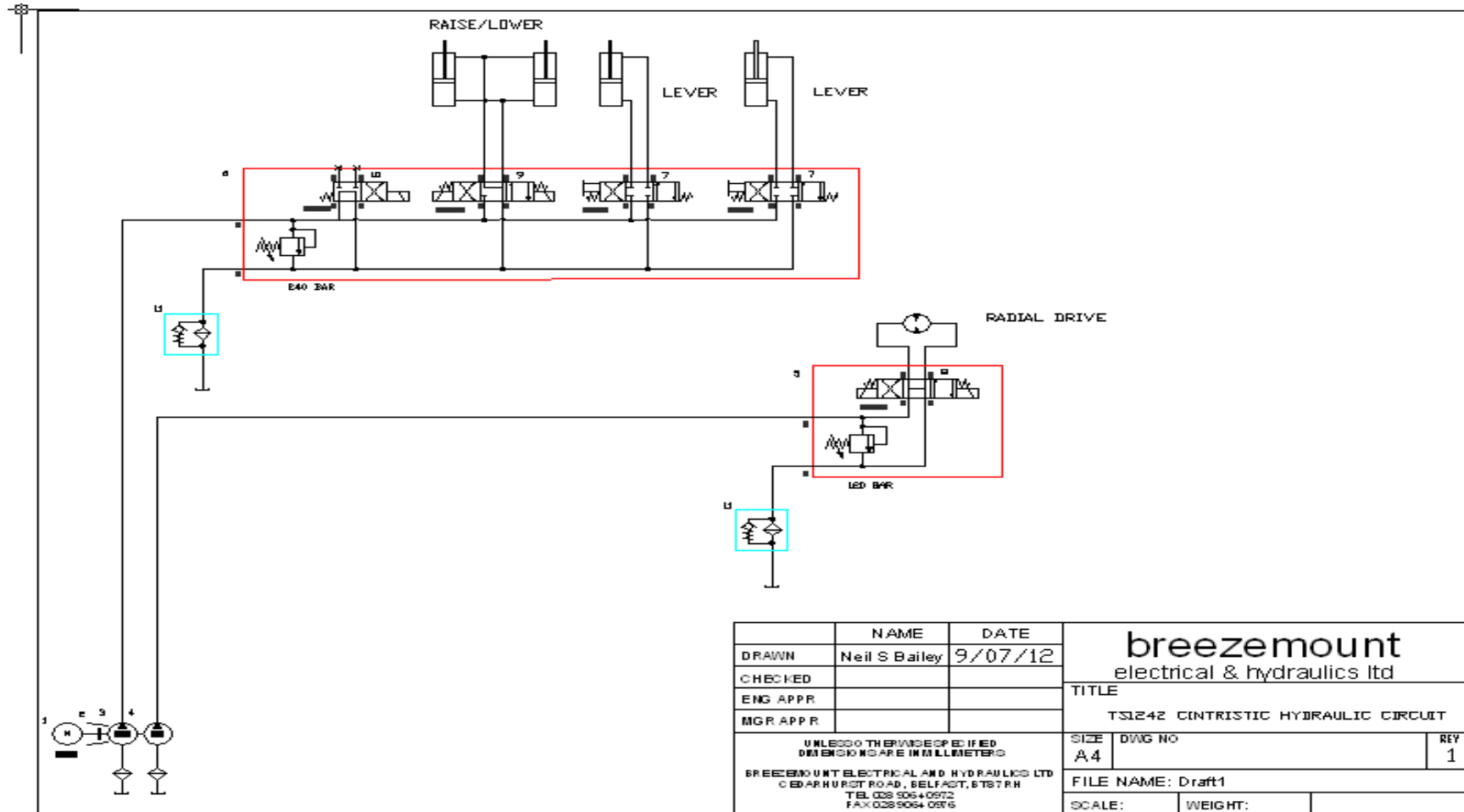
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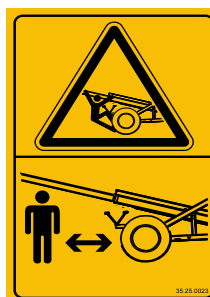
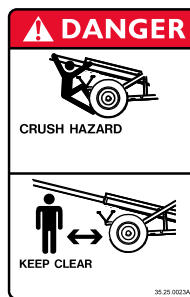
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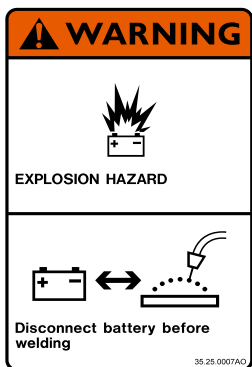
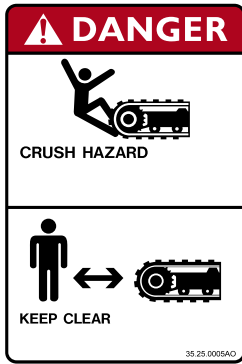
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SOCKETS																																									
SKT 1		SIZE		DESCRIPTION																																					
P1		80A FEMALE		INNER CONVEYOR																																					
P2		80A FEMALE		INNER CONVEYOR																																					
P3		80A FEMALE		INNER CONVEYOR																																					
P4		80A FEMALE		EARTH																																					
P5		80A FEMALE		INNER CONVEYOR																																					
P6		80A FEMALE		INNER CONVEYOR																																					
P7		80A FEMALE		INNER CONVEYOR																																					
P8		80A FEMALE		EARTH																																					
SKT 2		SIZE		DESCRIPTION																																					
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P2		80A FEMALE		OUTER CONVEYOR																																					
P3		80A FEMALE		OUTER CONVEYOR																																					
P4		80A FEMALE		EARTH																																					
P5		80A FEMALE		OUTER CONVEYOR																																					
P6		80A FEMALE		OUTER CONVEYOR																																					
P7		80A FEMALE		OUTER CONVEYOR																																					
P8		80A FEMALE		EARTH																																					
SKT 3		SIZE		DESCRIPTION																																					
P1		10A FEMALE		WINCH MOTOR																																					
P2		10A FEMALE		WINCH MOTOR																																					
P3		10A FEMALE		WINCH MOTOR																																					
P4		10A FEMALE		EARTH																																					
SKT 4		SIZE		DESCRIPTION																																					
P1		10A MALE		WINCH BRAKE (VOLT FREE)																																					
P2		10A MALE		WINCH BRAKE (VOLT FREE)																																					
P3		10A MALE		SPARE																																					
P4		10A MALE		EARTH																																					
SKT 5		SIZE		DESCRIPTION																																					
P1		16A FEMALE		POWERPACK																																					
P2		16A FEMALE		POWERPACK																																					
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P4		16A FEMALE		SPARE																																					
P5		16A FEMALE		SPARE																																					
P6		16A FEMALE		SPARE																																					
P7		16A FEMALE		EARTH																																					
SKT 6		SIZE		DESCRIPTION																																					
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P2		16A FEMALE		ESTOP FIELD POS2 CH1 (110V)																																					
P3		16A FEMALE		ESTOP FIELD POS2 CH2 (0V)																																					
P4		16A FEMALE		ESTOP FIELD POS2 CH2 (0V)																																					
P5		16A FEMALE		HYDRAULIC OIL LOW (110V)																																					
P6		16A FEMALE		HYDRAULIC OIL LOW (STATUS)																																					
P7		16A FEMALE		HYDRAULIC PUMP KEY SWITCH (STATUS)																																					
P8		16A FEMALE		MOVEMENT SIREN (110V)																																					
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P3		10A MALE		SPARE																																					
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P5		10A MALE		EARTH																																					
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TITLE:		TS1242 STOCKPILER				SHEET DETAILS:				7 - Terminals & Sockets SOCKET TERMINALS & CONTROLS				DRAWN NO:				16670002-3		DRAWING BY:				C.MULLAN		REV BY:		W.M.H.		DATE:		21/03/2012		SECTION		7-2		REVISION		3	

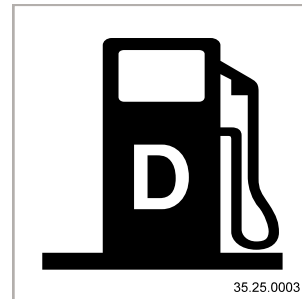
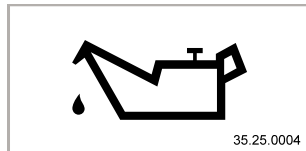
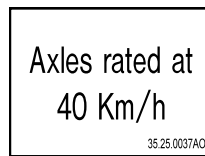
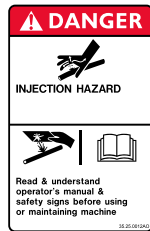
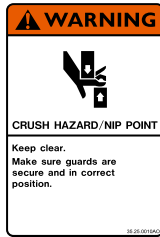
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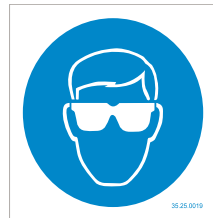
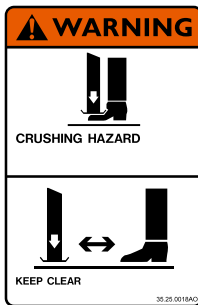
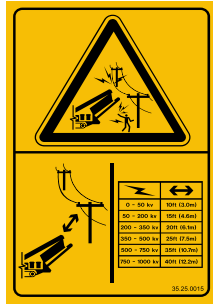
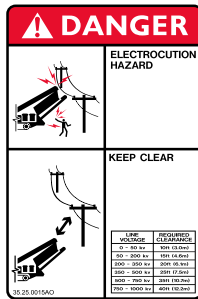
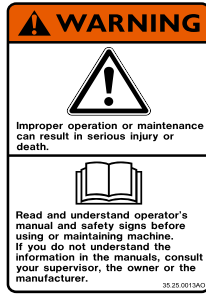


11.3 SAFETY DECALS









11.4 TERMINOLOGY

The terms below are used throughout your TELESTACK operations manual

Assemblies

Individual sections of the machine made up of different component parts

Auxiliary Control Valve

A bank of hydraulic valves which carry out various movement functions throughout the machine.

Belt Scraper

A device fixed or flexible mounted across the width of a belt of a conveyor for removing adherent material.

Centre Roller

A roller, which supports the loaded belt

Control Panel

A panel that is situated alongside the power unit, which houses functions for starting and stopping the conveyor.

Conveyor

A lattice structure which is split into a number of parts (for transport), that is used to transport material from the point of loading to the stockpile location.

Conveyor belt

A belt used to carry materials and transmit the power required to move the load being conveyed..

Dog Lead

A hand held device used to control the track movement.

Drum Adjusters

The apparatus used to adjust the tail drum so that the belt will run correctly and smoothly along the conveyor (tracking).

Dust Covers

Sheet of metal or canvas that prevents, or limits the amount of dust produced by the material transfer along the conveyor.

Dust Cover Hoop

The device used to support the dust covers.

Feed boot

An external collecting device, which funnels material from the loading apparatus unto the centre of the belt at a constant and steady rate.

Guard

A covering, barricade, grating, fence or other form of barrier used to prevent inadvertent physical contact with operating components such as gears, sprockets, chains, and belts.

Head Drum

A Cylindrical steel pipe machined to give a raised centre (crown) and lagged with rubber for grip.

Hardened Wear Plates

Durable material with high wear resistance, the plates are bolted inside the feed boot to ensure a long service life of the feed boot.

Impact bars

These are placed under the feed boot and protect the belt from the impact of the falling material.

Plough Scraper

Rubber or plastic scraper mounted on top of the returning conveyor belt to prevent material being trapped between the tail drum and belt.

Return Roller

Roller which is used to support an un-laden belt, on the underside of the conveyor.

Telescopic Section

Section of the machine that extends telescopically, in order to alter the discharge height+ distance of the conveyor.

Tracks

Driven tracks to move the machine

The beams, shapes, or formed section on which trolleys, roller, shoes, or wheels roll or slide while propelled

Wing Roller

The roller used to arc the belt to reduce material spillage.