Mobility Engineering (Cheshire) Ltd
Materials Handling – Conveyor Systems Design & Manufacture

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PRODUCT CARE

GENERAL

This document is designed to highlight the parts of a conveyor that may need attention during their working life. Permission for the removal of parts or product modifications must be sought before any work is carried out.

CLEANING

It is the clients responsibility to ensure that the product is cleaned in the correct or an appropriate way. e.g. Mild/Carbon Steel should not come in contact with any form of liquid as it will lead to rusting (all our mild steel - self colour - Gravity Roller Conveyors are dispatched with a coating of oil to initially protect them from the elements. If there is the possibility of water or moisture, then an alternative option should be considered at the quotation stage. This applies to any product or component of a product that is self colour mild steel). Electric controls and panels should not be washed down unless a specific IP rating has been stated at quotation/order stage.

GRAVITY ROLLER CONVEYORS

Visual check for wear or damage.
Check alignment, levels and squareness.
Check movement of rollers and bearings.
Check nut/bolt tightness in side frames and supports.
If the rollers or any metal parts are mild steel (uncoated/unprotected via plastic, zinc etc), make sure there is no contact with water or any form of liquid without first seeking our advice.

LINESHAFT DRIVEN ROLLER CONVEYORS

Visual check for wear or damage.
Check alignment, levels and squareness.
Check movement of rollers and bearings.
Check nut/bolt tightness in side frames and supports.
Check for noisy drive units, lubricate drive chains from motor unit to lineshaft, check tension and adjust if required.
Check for sprocket wear.
Check motor oil level - Drain and replenish motor gear box oil to manufacturers recommendations.
Check bearings for wear, check grub screws are secure.
Remove excess oil from exposed parts of lineshaft.
Check ancillary equipment (transfer units, pneumatic stops etc) for wear and tightness.
Check all pneumatic parts for wear and leaks.
Check side guides are secure and tight.

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Check any electrics (start/stops, emergency stops, photo cells, etc) are secure and working.
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BELT CONVEYORS
Visually check for wear and damage.
Visually check that framework and guides are secure, feet stable and conveyor is safe to operate.
Visually check that all safety guards are fitted and secure.
Examine belt for wear and damage, clean if practical.
Check belt fastener/vulcanised joint, check belt tracking and tension, adjust if required.
Check for noisy drive units, lubricate drive chains from motor unit to headshaft, check tension and adjust if required.
Check for sprocket wear.
Check motor oil level - Drain and replenish motor gear box oil to manufacturers recommendations.
Check bearings for wear, check grub screws and fixing bolts are secure.
Check all rollers are secure and revolve properly.
Check ancillary equipment (transfer units, pneumatic stops etc) for wear and tightness.
Check side guides are secure and tight.
Check any electrics (start/stops, emergency stops, photo cells, etc) are secure and working
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CHAIN DRIVEN ROLLER CONVEYORS
Visual check for wear or damage.
Check alignment, levels and squareness.
Visually check that all safety guards are fitted and secure.
Check nut/bolt tightness in side frames and supports.
Check for noisy drive units, lubricate drive chains from motor unit to lineshaft, check tension and adjust if required.
Check for sprocket wear.
Check motor oil level - drain and replenish motor gear box oil to manufacturer's recommendations.
Check bearings for wear, check grub screws are secure.
Check movement of rollers and bearings..
Check ancillary equipment (transfer units, pneumatic stops etc) for wear and tightness.
Check all pneumatic parts for wear and leaks.
Check side guides are secure and tight.
Check any electrics (start/stops, emergency stops, photo cells, etc) are secure and working.
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PERSONNEL GATES
Visual check for wear or damage.
Check alignment, levels and squareness.
Check bearings for wear, check grub screws are secure.
Check lifting is free without using excess effort up or down. If gas struts are fitted and the gates require excessive force to close, the gas may need to be bled. If gates need excess force to open, struts may need to be replaced.
Remove excess oil from exposed lineshaft.
Check movement of rollers and bearings, check drive belts for wear.
Check nut/bolt tightness in side frames and supports.
If the rollers or any metal parts are mild steel (uncoated/unprotected via plastic, zinc etc), make sure there is no contact with water or any form of liquid without first seeking our advice.

PNEUMATICS
Drain moisture from in-line filter regulators.
Check and refill oil in lubricators.
Visually inspect nylon tubing for wear and loose fittings, replace bad joints.

ELECTRICS
Visually check system for broken buttons, E/Ms, boxes etc. Check all trunking/conduit is secure and lids are fitted.
Check panel is secure and system runs correctly.

IP RATING STANDARDS
An IP number is often used when specifying the environmental protection afforded by enclosures around electronic equipment. These ratings refer to specific tests. The IP number is made up of two components as follows: IP44 The first number refers to the protection against solid objects and the second against liquids. The higher the number the better the protection. see below for a summary.

IP PROTECTION NUMBER SUMMARY:

FIRST NUMBER
0 - No Protection.
1 - Protected Against Solid Objects Up To 50mm - Eg, Accidental Touch By Hands .
2 - Protected Against Solid Objects Up To 12mm - Eg, Fingers .
3 - Protected Against Solid Objects Up To 2.5mm (Tools And Wires) .
4 - Protected Against Solid Objects Up To 1mm (Small Tools And Wires) .
5 - Protected Against Dust, Limited Ingress (No Harmful Deposit) .
6 - Totally Protected Against Dust.

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SECOND NUMBER
0 - No Protection.
1 - Protection Against Vertically Falling Drops Of Water - Eg, Condensation.
2 - Protection Against Direct Sprays Of Water Up To 15 Degrees From Vertical .
3 - Protection Against Direct Sprays Of Water Up To 60 Degrees From Vertical .
4 - Protection Against Water Sprayed From All Directions - Limited Ingress Permitted.
5 - Protected Against Low Pressure Jets Of Water From All Directions - Limited Ingress Permitted.
6 - Protected Against Low Pressure Jets Of Water (Use On Shipdeck) - Limited Ingress Permitted.
7 - Protected Against The Effect Of Immersion Between 150mm And 1000mm.
8 - Protected Against Long Periods Of Immersion Under Pressure.

Note: there is a third number which is commonly omitted and which refers to protection against mechanical impacts