



Monthly PM Checklist

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Sensor X 23



General Check

Item	Status	Comment / Part info
Machine stable and leveled correctly with legs anchored and isn't rocking or vibrating unusually?		
Correct height according to other equipment (if any)?		
Excessive wear or damage to any part of unit?		
Loose assemblies, doors, guides?		
Cracks, dents, and scratches?		
Check touch screen calibration and function		



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Cabinets, Doors and Covers

Check function, adjust and/or replace

Item	Status	Comment / Part info
Check each compartment sealing condition and the gaskets to make sure they aren't torn.		
Check for leakage, water accumulation or moisture in tube area. Also note if any oil is present as this could be leaking from the tube. Clean any moisture or oil.		
Check for loose or missing cable glands or any opening into the machine. Cover any openings into the machine.		
Check that the Sensor Compartment cover has all nuts present. Replace if any are missing.		
Check the tube radiator/fan cowl on back of machine for dust or particles. This can be done by removing the filter and looking at the bottom of the radiator.		
Check the tube radiator/fan/filter function. Is the fan blowing?		
Check the condition of gas springs on all doors.		
Parts in cabinet are free from corrosion. Clean if any is found.		
Check for any misalignment of doors and covers		
Check sensor area and drain 19mm plugs for water accumulation and drain water if necessary.		
All covers closed and bolted tightly?		
Check locks on all doors that they are locked and working correctly.		



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Sensor X Machine Mechanical Parts

Check function, adjust and/or replace

Item	Status	Comment / Part info
Check condition of belt. Replace if any of the holes are elongated or torn.		
Check the belt tension is correct and the scraper and roller are installed correctly.		
Check water nozzle. Does it spray in a fan pattern to cover the width of the main belt?		
Check plastic x-ray lids upper and lower for cracks or damage. Notify Marel ASAP if this is found.		
Check skid racks are not bent or damaged.		
Check if water in top warning indicator light. Dry out water or replace light if water is found.		
Check condition and position of motor roller.		
Check condition and position of scraper.		
Are both drain pipes present and not interfering with the return belt? Remove links from the return belt if it is touching the drain pipes.		
Check the condition of the reject mechanism. Is it bent or not operating correctly?		
Test the reject, does it move in sync, smoothly and quickly? Adjust using the flow controls on the air cylinders.		
Check condition of rollers or roller bushings both on infeed and reject.		

Safety System		
Check function, adjust and/or replace		
Item	Status	Comment / Part info
Check that all door magnets stop the belt and X-ray. Report issue to Marel if not.		
Check that E-stops stop the belt and X-ray. Report issue to Marel if not.		
Check that all door magnets and E-stops give warnings in alarm screen. Report issue to Marel if not.		
Make sure the X-ray won't start if the safety circuit is open or an alarm is present. Report issue to Marel if not.		
Check if x-ray enable key present and working correctly.		
Check that all safety markings are visible.		
Mains and Motors/Service labels on disconnect switches.		



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Sensor X accessories

Check function, adjust and/or replace

Item	Status	Comment / Part info
Are the plastic Intralox or Habasit Belts in good shape with no broken links?		
Is the belt tension correct and are belts tracking properly?		
Are belt tension rollers all present and not worn?		
Are the motor sprockets in good shape with the teeth not worn down? Does the sprocket slip on the motor drum?		
Are the QC Screens functioning and visible?		
Does the footswitches/buttons/knife switches work and clear the QC heads? Check function using the Hardware Monitor screen on the SensorX.		
Are the photo eyes all aligned and working? Check function using the Hardware Monitor on the SensorX.		
Do the motor encoders work on the return belt and C-conveyor? Check function using the Hardware Monitor on the SensorX.		
Are the table lamps functioning?		
Are the In-feed guides in place and functioning?		

Electrical System		
Check function, adjust and/or replace		
Item	Status	Comment / Part info
Check condition of E-stop buttons and contacts. Make sure no water is present in the box.		
Check 24VDC Power Supply and ensure it is supplying a steady 24VDC		
Check for loose connections at cable glands and at all motor junction boxes (peckerheads).		
Check that incoming voltage is 208-230VAC and balanced among the legs.		

Notes: