Melco Conveyors manufactures high quality conveyor rollers to international standards including SANS 1313, CEMA and DIN. The quality of materials used and the accuracy of the construction process have a significant effect on the life and performance of the rollers.

The investment of Melco’s new Automated Roller Assembly Machine complements other advanced manufacturing machines in use at Melco such as the Automated Shafting Machine and the 1000 tonne Bearing Housing Press. This will complement Melco’s Quality Management System.

What does this machine do?
It automatically assembles and correctly seats the bearing and seal assemblies into welded roller shells.

Bearings are greased online
Specific measurements are taken on each roller after assembly:
- Total Indicated Runout (TIR) on left, right and centre of each roller
- Running Resistance
- Axial play to ensure accuracy of construction and to check that each circlip is seated correctly

Each roller is run-in after assembly
If a roller is out of its pre-set manufacturing specification, that roller is identified and removed from the line for rectification. This ensures:
- Repeatable accuracy of assembly
- Improved safety as system does not require hand operators
- Improved efficiency
- Reduced contamination of bearings

What advantages does this present to Melco customers?
- Every single roller assembled with this machine is measured for TIR and Running Resistance
- Measurements of each manufacturing batch can be provided illustrating the accuracy of Melco’s manufacturing process for quality purposes
- Rollers that are assembled more consistently using the Melco Automated Roller Assembly machine should give even longer bearing and roller life
- Longer bearing and roller life will translate into additional savings, fewer replacements, and less conveyor downtime related to rollers.

Size range
Roller diameters: Including standard diameters 102mm, 127mm, 152mm and 178 mm
Shaft series: 25mm, 30mm, 35mm, 40 mm (Bearings 6205, 6306, 6307 and 6308)
Roller length: < 1300 mm