

Automatic Tire Inflation System from L/A Zero, Inc



L/A Wheel System's Automatic Tire Inflator that can inflate wheel assemblies ranging from 12" diameter to 32" with speeds up to 600 wheels per hour in continuous mode,

The machine has a feature that performs the inflation process in automatic mode using a light curtain as a trigger to activate the process.

The wheels are indexed on conveyor pallets. If tire is present in inflation station, then an inflation cycle is immediately initiated. An automatic unloading system on the end of the machine unloads onto a gravity conveyor.

A sensor on the gravity conveyor stops the machine if full until cleared. There are several models and sizes that fit to a production rate and accommodate very easily to supply Wheel assemblies depending on the capacity of the customer process.

The machine has various operational modes that are selected from the Operator's interface touch screen that comes along with every automatic system. The size and the layout of the machine can also be adapted to fit space requirements in order to fit to the customer needs.

The set up of the machine is performed via a touch screen interface (OIT), with the



exception of the inflation heads which are changed to match rim sizes. Inflation pressure is set and can be maintained up to +/- 1 PSI. Production logging and recipe storage are also available as options. Remote system maintenance via the internet is also available if the customer requires it.

Inflation head is extremely fast with a cam lock system to remove head from upper platen. Then head is simply indexed to the next position and the next desired head is indexed into position and simply rotated on to the cam locks. On larger systems an optional automatic head change out system is available that incorporates a rack system to store unused



inflation heads.



An unloading system at the end of the conveyor strips the inflated wheel assemblies from the indexing conveyor and deposits them on a gravity conveyor. A photo eye on the gravity conveyor stops the system if the gravity conveyor is full. The Conveyor system can be specified or set to any length that the customer desires.

The System can be supplied either with an air over oil system for powering the upper cylinder, or with a hydraulic power unit if the customer requires it.