



▶ FEEDING IN THE LATEST

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▶ ELSCINT VIBRATORY FEEDING SYSTEM FOR CENTRELESS GRINDING MACHINES



▶ ELSCINT AUTOMATIC SCREW AND WASHER ASSEMBLY

Elsclint Ahead



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(by Monish Shete)

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Good Morning!

You might have observed that there have been quite a few changes in this March, 2008 issue of the Elscint Newsletter. Starting with a name change to “Elsclint Ahead”, this name in a way, projects the philosophy of Elscint of being ahead in everything, be it interaction with customers, product quality, customized as well as standardized products, innovativeness in launching new products etc. Talking about standardized products, Elscint has standardized a feeding system for centreless grinding machines. Information about this is covered in this edition of Elscint Ahead! The second product review is of another innovative product which has been standardized, i.e. the Automatic Screw & Washer Assembly Bowl Feeder. I am sure you will find this informative and useful. Lastly, do provide us your feedback on the changes made in the newsletter by mailing us at sales@elsclintautomation.com. It will surely help us in further improving it.

Elsclint Vibratory Feeding System for Centreless Grinding Machines

Elsclint Automation provides a special vibratory feeding system for feeding of small parts like pins, rollers, bushes, shafts etc. to centreless grinding machines. The advantage of this feeding system is that the components are fed at a continuous pressure. This leads to better and consistent quality of ground components. Another advantage is that it becomes a totally manless operation which results in one person looking after three to four machines. The output too increases tremendously as due to automatic feeding, the feeding to the centreless grinding machine can go on even during lunchtime and breaks. The system consists of a vibratory bowl feeder and a linear vibrator ahead of that.



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A table is also provided to mount both these units. Optional accessories include equipment for extra loading capacity like silo, hopper type silo, stock hopper, elevator as well as a X-Y table for X and Y adjustment. This helps in fine adjustment to accommodate the various sizes of components plus is useful while dressing of the Grinding Machine Wheel. Depending upon the size of the components and the loading capacity required, either of Model 160, Model 250, Model 250 EV, Model 400, Model 400 HD and Model 630 are used. The linear vibrator is chosen between Model Elscint I, Elscint II and Elscint IV.

Elscint can also provide a conception to commissioning service for this type of equipment wherein, Elscint will design the system after studying the suitability of the same, manufacture it and then implement it. Elscint's engineers can even run the system for two days at your end before hand over thus proving the same to the customer's satisfaction.



Automatic Screw & Washer Assembly

Most automobile companies require using screws and washers at many places while making an automobile, be it a two wheeler or a four wheeler. Time is of as cense here as it is very important and every second which the operator saves can translate into increased productivity and increased number of vehicles produced. In most of the cases, the operator has to assemble the screw and washer and then fix it at the required place. Though this process takes a very small time, it results into a lot of time when the day's production is taken into account. In case the washer and the screw is kept ready for the operator / assembly worker duly assembled, it can save a lot of time. There is a huge time saving in case one takes into

account the number of screws and washers assembled every day by one operator. However, for doing the assembly, either one requires a costly assembly machine or else the assembly has to be done offline manually. However, this too requires the usage of a person. For this very purpose, Elscint has developed a novel Vibratory Bowl Feeder which can assemble Screws / Bolts and Washers. One just needs to dump the Screws and Washers in the Bowl Feeder and they come out in an assembled fashion. Pokayoke concept has been implemented to ensure that not a single unassembled Screw and Washer come out of the Bowl Feeder. Normally, for assembly of Screws and Washers, two Bowl Feeders are required along with a motorized or pneumatic station where they are assembled. This Bowl Feeder using the new novel assembly concept pioneered by Elscint makes the assembly in only a single Vibratory Bowl Feeder. This not only saves space but also electricity consumption as only one single Vibratory Bowl Feeder is required and eliminates the need for one Vibratory Feeder and motorized assembly station. This Vibratory Bowl Feeder adds tremendous value for users of Fasteners like automobile manufacturers who presently have to assemble Screws and Washers by hand or have to use costly Assembly equipment. Hence, this Vibratory Bowl not only reduces labour but also helps improve productivity. As Elscint has made this a standard equipment, most of the components are kept in stock and deliveries can be fast.



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