

○ 09/2009 | ○ September | ○ 2009

▶ FEEDING IN THE LATEST

▶ BACK ISSUES OF ELSCINT  
AHEAD NEWSLETTER NOW EASILY  
DOWNLOADABLE

▶ UPTO 60% COST SAVINGS IN  
POWER CONSUMPTION WITH FULL  
WAVE / AC VIBRATORY FEEDERS

# Elsclint Ahead



Components for  
which systems are  
available



## *Feeding In The Latest ...* Monish Shete

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There is something on offer in this edition of the Elscint Ahead newsletter! First of all an easy way to download the back issues of this newsletter. Now you need not save them on your desktop! Secondly, a great way to save upto 60% in power costs. Sounds interesting? Read about it in the second news story. I am sure you would want to switch over to the cost saving products, once you go through the advantages mentioned in this section. You can find the technical details about this at [http://www.elscintautomation.com/Pdf\\_files/60-Savings-on-Full-Wave-Vibrators.pdf](http://www.elscintautomation.com/Pdf_files/60-Savings-on-Full-Wave-Vibrators.pdf). Unfortunately, there's no cash for clinkers offer for Vibratory Feeders from as there is in the USA and Germany for gas guzzling vehicles!

## Back issues of Elscint Ahead Newsletter now easily downloadable

Elsclint has been issuing this Newsletter, Elscint Ahead! since 2006. Those of you, who started subscribing a little later, may have missed out on some earlier issues, which were filled with valuable information on vibratory feeders. These can now be retrieved at the click of a button at <http://www.elscintautomation.com/Elscint-Ahead-Archive.html>. In case you have missed out any particular issue of the Elscint Ahead Newsletter, you can always read the same at the archives page indicated above.

The easy downloading facility helps you grab any particular issue you need and read it at your convenience. The process is quick as no contact details are required to be filled up for accessing these archives. However, for getting the current issues of the newsletter regularly on your computer, you need to register at <http://www.elscintautomation.com/EnquiryForm.html>



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# Upto 60% savings in power consumption on Full Wave / AC Vibrators

Electricity costs are increasing day by day. In this scenario, it is the duty of every person to look for ways to reduce electricity / power costs in industry. Vibratory feeders are one area where one can look for power savings and subsequent cost reductions. In many cases, costs can be reduced by as much as 60% if full wave AC operated vibratory feeders are used instead of conventional DC / half wave feeders.

## Advantages of Full Wave / AC Drive Feeders-

**1. Highly Accurate** - Since the amplitude of the vibrator feeder's vibration depends directly upon the forces applied at the poles, and since these forces depend directly upon the applied AC voltage, a simple variation of the AC voltage from zero to 100% results in a corresponding amplitude variation from zero to 100%. With a half wave or DC vibratory feeder, a 10% increase in voltage might result in a 40% increase in feed; with a full wave or AC drive feeder, a 10% increase in voltage results in a 10% increase in feed. This level of accuracy makes the feeding much easier to control.

**2. No Rectifier required** – Full wave / AC vibrators do not require a rectifier, which means the vibrators consume less power resulting in huge energy savings. (upto 60%)

**3. Lower Maintenance** – Full wave / AC Vibrators require less maintenance as the vibrations are smooth and not jerky, thus resulting in lesser breakages.

**4. Smoother Vibrations** – The vibrations are smooth and not jerky, hence are most suitable for fragile and light weight components.

Though there are tremendous advantages like increased feed accuracy, energy savings and lower maintenance requirements, *there are no disadvantages or trade-offs in speed or capacity*. The full wave drive feeders can handle light as well as bulky and heavy components at high speeds.

**Cost Savings** - Putting down the savings in monetary terms, a full wave / AC powered vibratory bowl feeder with a rating of 780 VA (having diameter 600 mm to 650 mm), results in power consumption of 3.6 units per eight hours while the equivalent half wave / DC operated vibratory feeder would result in power consumption of about 9 units per eight hours. This means a saving of a full 146 valuable units per month by just running just one shift per month!

## Changeover to Full Wave vibratory feeders

Looking at the above cost savings, does it make sense to dump your present half wave vibratory feeder in favor of a full wave / AC operated one? It sure does. You can recover the price of a new full wave / AC operated vibratory feeder very soon! Elscint mainly manufactures AC / full wave vibrators!

For more information, including the technical details, click on [http://www.elscintautomation.com/Pdf\\_files/60-Savings-on-Full-Wave-Vibrators.pdf](http://www.elscintautomation.com/Pdf_files/60-Savings-on-Full-Wave-Vibrators.pdf)



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