

# FIBER DISPENSING SYSTEM

Mobile Concrete Plants  
 U-cart Concrete Plants  
 Pre-cast Concrete Plants  
 Ready-mix Concrete Plants

*“Discover a new way to add fiber.  
 It works.  
 Satisfaction is guaranteed.”*

*More Safety  
 Better Quality  
 Better Productivity*



## Overview

Volumetric concrete trucks (mobile concrete plants) are widely used in the United States of America and offer the benefit of selling concrete on demand by the cubic yard. Poured concrete is fresh and has not been tumbling in the drum for long periods of time. Volumetric trucks can be used for small and large concrete jobs. "You pay for what you use" is the basic concept.

Until today the main way to add fiber in the mix was to throw progressively and manually the required quantity into the mix. Obviously this is not convenient. It is almost impossible to distribute the fiber evenly and to dose it properly. Besides hand feeding is dangerous.

That is why VM Fiber Feeder manufactures and sells a dispensing system of reinforcement fiber.

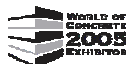
### EXCLUSIVE TECHNOLOGY

The VM Fiber Feeder is an embedded chopper of fiber rovings which provides on-demand chopped fiber. It is the only one available on the market. A patent is pending.

## It Works!

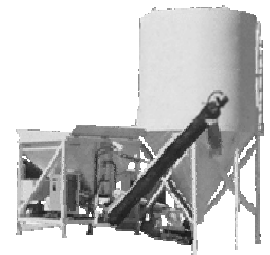
The VM Fiber Feeder System is gaining quick acceptance in the United State of America. The advantages of the system are well recognized and the following companies have already installed and used the system:

- Volumetric by Strong, Texas
- Reimer International, Canada
- Short Loads, Florida and Louisiana
- Advantage Concrete, Florida



## Key Advantages

- Better quality control with automatic fiber chopping and accurate dosing
- Long autonomy (continuous fiber roving which holds approximately 40 pounds)
- No fiber bags inventory to be kept in the truck
- Flexibility: ability to change the concrete grade and reinforcement levels on site according to job specifications
- Compact size
- Easy to install on any truck
- Easy to load
- Maintenance-free
- Cost efficient



## Cost Efficient

No need for manual feeding of the bags during mixing thus greater productivity during the mixing of all raw materials. Consequently, you can increase your profit up to \$10 per cubic yard of concrete.

### System description

- A stainless steel box
- A purpose-built chopper
- 4 bolts to mount the box onto the truck
- 3/8 inch air-line (10 to 80 psi)
- A plastic tube guides cut fibers onto the belt
- An on/off switch or a valve depending on the truck

### How to use it?

The VM Fiber Feeder is simple and easy to install onto the volumetric trucks. VM Fiber Feeder Inc. boxes and delivers the turn-key system. The system adapts to any volumetric truck design or application and is easily mounted with the 4 bolts and an air-line (box size is 12"x12"x18.5"). The AR glass fiber roving fits perfectly in the box and the fiber strand is easily inserted through the purpose-built chopper. The system is then calibrated to run at the right speed in order to chop the fiber in 1/2 inch, 3/4 inch or 1 inch length. Some calibrating testing is required in order to insure adequate fiber dosage at one pound per cubic yard of concrete. Then a single on/off switch command the system. The VM Fiber Feeder is very accurate and maintenance-free. To insure the quality of the chopping, the end-user will have to verify the chopper blades and the backing roller for small defects and change them on a regular basis. VM Fiber Feeder Inc. carries and sells spare parts.



**VM FIBER FEEDER, Inc.**  
7850 Fruitville Road  
Sarasota, Florida 34240, USA

Tel: +1 941 342 9997  
Fax: +1 941 342 1771  
[www.vmfiberfeeder.com](http://www.vmfiberfeeder.com)  
[info@vmfiberfeeder.com](mailto:info@vmfiberfeeder.com)

### Fiber

VM Fiber Feeder, Inc. sells fiber rovings (bobbins) as part of the complete fiber dispensing system. This fiber is made of Alkali-Resistant glass. That means that it keeps its extra high mechanical properties when mixed in concrete which is chemically aggressive.

This is the Cem-FIL® HP Roving. The fiber is white and it is designed to be unwound internally. They are protected by a shrink-wrap polythene film which should not be removed when used. Each roving is identified by an individual label and packed in a box.



Material	Modulus of Elasticity (GPa)	Tensile Strength (MPa)	Specific gravity
<b>Cem-FIL® AR Glass Fibers</b>	<b>72</b>	<b>1,700</b>	<b>2.68</b>
Polypropylene	3.5	350	0.91
High Modulus Polypropylene	7	550	0.91
PVA	29	910	1.3
Polyester	17	1,000	1.34
Steel	200	1,100	7.2
Concrete			2.4

### Performance

- AR glass has excellent mechanical properties
- Plastic shrinkage cracking of reinforced concrete is reduced by up to 80%
- Compressive strength of reinforced concrete is improved by 15%
- Fiber to matrix bond is optimum: mineral to mineral
- Density of AR Glass is similar to that of concrete. Therefore neither balling, floating nor air entrapment
- AR Glass is not flammable
- Good dispersion in the mix

***“An extra high performance fiber and the best dispensing system united and tuned to work together!”***