

MOP MAKING EQUIPMENT



MAGHINERY CATALOG

TEXTILE MACHINERY
FIBRATEX

INTRODUCTION



Welcome !
FIBRATEXSA MACHINERY CO. is honored to present you with the latest and most advanced machines for mop manufacturing.

As a newcomer to the industry, the company has on hands experience in every machine out there, due to the fact that an affiliated company HIMESA utilizes such machinery.

Because such machinery was designed by companies that did not have experience in the mop industry, and so, could not possibly think of the flaws and problems faced in this particular industry, the need to have better machines has always been there... and that is why FIBRATEXSA was born.

The objective is to manufacture machines that eliminated such flaws, in a user friendly and highly productive system, *at a lower cost !!*, the objective has been met and surpassed and we are sure that we will become the first name in mop making equipment .

Every machine has been not only tried in a testing lab but used day in and day out in our affiliated companies, allowing us to absolutely test and iron out every single detail.

We will try in this brochure and in other materials to give you a detailed view of each machine produced so that you may arrive at your own decision, if with this documentation you still have doubts you are more than welcome to see a machines in operation.

The management



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LOOP END MOP MACHINE

Loop end mops are very popular worldwide usually associated with higher end product allowing the manufacturer of these products a higher price and much better revenue per pound of mopyarn.

Loop end mops and fantailed mops (also known as tailbanded cut ends) are made with the same machine if the optional cutter attachment is ordered.



Our loop end winder Hh1 sets a new standard for this type of machines, incorporating heavy duty components that allow very easy setup and maintenance, utilizing readily available (not custom) components and parts giving the operator unprecedented ease and control as well as safety. Both sewing machines utilized are right hand, so both sewing machines are running forward, unlike other designs that makes one of the machines run backwards, leading to unreliable sewing and continues breakdown.



Our loop end winder HH1 sets a new standard in reliability and maintenance, your production will increase and your down time will be practically non-existent !

FEATURES

- * Great productivity
- * Low Maintenance costs
- * Minimal needle breakage
- * Walking foot design
- * Use of standard parts
- * Heavy duty components
- * Adjustments without tools
- * Great price !

*"Unbelievable... FIBRATEX has done it !
with this looper I don't need a Mechanic
full time by the side of the Machine !"*

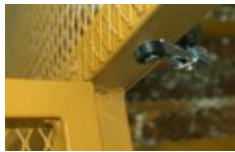
- Customer



No flimsy stuff here !, please note the heavy duty assembly, totally enclosed slip ring (dust & lint tight), heavy duty arm, extra large yarn feeder, etc.



Two heavy duty Singer sewing machines, both are right hand, one has been cut and modified. so that both machines sew in forward direction. Others have one of the machines sewing in reverse... not good ! This is more expensive to make ... but much more reliable.



The complete machine has safety micro switches that protect the operator in case of opening the door etc.



Instead of using sprockets and chains that are unsafe and requires a lot of maintenance, we utilize right angle gears that are totally enclosed that are practically maintenance free



The panel houses all the electronic components in a safe way. All parts and components are designed to be efficient, trouble free and available !



User friendly controls where the operator can control the feed (density, gap, etc) as well as a handy counter control and other indicators.

COMING SOON !
Optional Computerized
Touch screen system!

SPECIFICATIONS

AUTOLOOPER[®] HH-1

POWER

Single Phase, 220V, 20 amps or may be built to customer specifications.

SEWING MACHINES

Two Double needle chain stitch machines featuring walking foot and band feeder both machines are standard, one is custom to be able to run both in forward direction. Each sewing machine has its own motor, using all standard parts.

Mop Length

Easily changed by operator and is adjustable from 26" to 48" from tip to tip of loop end.

Mop Weight

Is determined by the revolution counter and its adjustable by the operator.

Density and mop gap

Two controls that are operator adjustable set the amount of yarn feed by the variable speed winder motor (arm) and the gap separator controller determines (by the operator) the space between each mop.

Tail Band

Specially designed for 1/2" mop tape or you can operate without mop tape for special items like finish mops. The minimum distance from the band to the tip of the loop is 3" and its user adjustable.

Production

It varies on the type of yarn and the quality of the yarn used, and it is fully adjustable by the operator, based on the 12-16 feet per minute range, a looper can make 5-7 (22oz) mops (L or XL) mops per Minute !

Area

The actual footprint of the machine is only 10'x10' but if you include the yarn creel and the area for the operator and production the minimum area needed are 24'x30' .

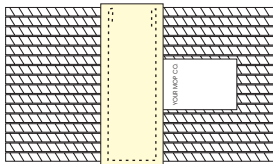
Safety Features

The machine has micro switch devices to be able to stop the machine is one of the service doors is open or if a problem develops in the yarn feed, among other safety protectors.

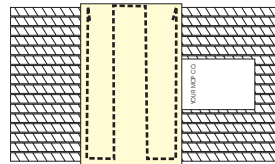
Specifications subject to change without notice due to the constant research and development of new technology and improvement.

LOOP END MACHINE

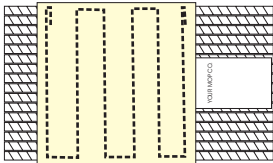
AUTOSEW MACHINE



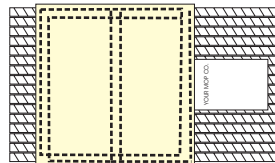
two lines



4 lines



6 lines



custom

Sewing the headband on a mop is the single most labor consuming chore in the mop industry, specially the wide band mesh headbands with up to 10 lines of stitching, but with this machine its easy !

"I don't have to have skilled operators for this machine, this is the beauty of it...!"

"Fantastic touch screen panel controls the machine, wow !

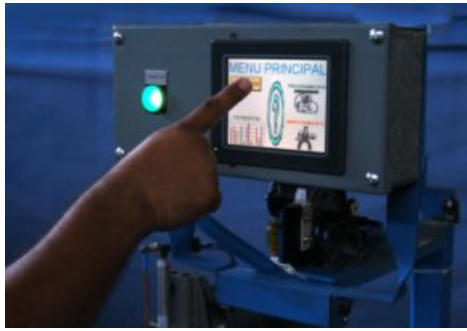


FEATURES

- * Great productivity, the fastest option for sewing mop headbands
- * Operator selectable stitching patterns.
- * Wide band and narrow headband sewing.
- * Very little training of operator needed.
- * Great user interface w/ Statistics
- * Reliable and trouble free
- * Heavy duty components
- * User friendly & Great price !

Forget about sewing with regular sewing machines, with this setup your production will increase tremendously !





Deluxe touch screen monitor that enables operator to see the stitching pattern, productivity, interfaces, is much more user friendly, the important part here is our custom designed software... reliable and very fast !
 Languages: Spanish, English, Italian and Portuguese

Power panel and controller box for protection of components using the latest and readily available components that are proven for reliability, built to strict engineering compliance and specifications.



Sloped design for easy feeding to conveyor belt (optional)

Heavy duty mop holder, custom designed needle separator, thread cutter...
 Every thing is heavy duty here...
 No flimsy stuff !



SPECIFICATIONS

POWER

Single Phase, 220V, 20 amps or may be built to customer specifications.

Note: Compressed air needed @100 psi. .

SEWING MACHINE

One single needle heavy duty lockstitch machine with CPU controlled pattern stitching designs, 6 designs pre-programmed and are operator modifiable , allowing headbands from 1.25" to 5", with a width adjustable up to 6 inches.

Mop Weight

Up to 24 oz. but heavier might be possible depending on the yarn and length of mop.

AUTOSEW®

NL-1

Production

It varies on the amount of stitches per inch but as a guide, for a 6 seam it takes 19 seconds an 9 seconds for a 2 seam mop for an average production of 128 wide band mops per hour.

Area

The actual footprint of the machine is only 5'x7' and the total area varies on usage.

Specifications subject to change without notice due to the constant research and development of new technology and improvement.

AUTOSEW MACHINE

YARN CUTTERS FOR EVERY BUDGET

YARN CUTTERS

AUTO CUT[®] NC-1



Incorporating state of the art electronics FIBRATEXSA is offering the cutter of the 21 century, touch screen controller, commanding a Central processing unit for an parallel length precision, production control, statistics and much more at a touch of a button !

The NC-1 Cutter can be adapter for offline production or in conjunction with a sewing or deckmop station for maximum savings of personnel.

SPECIFICATIONS

NAME: Automatic feed mopyarn cutter NC-1

POWER: Single Phase, 220V, 20 amps
or may be built to customer specifications.
Note: Compressed air needed @100 psi. .

Includes touch screen readout with
production info software.

Mop Weight: Up to 24 oz.

but heavier might be possible depending on
the yarn and length of mop.

The length of the mop is input by the operator,
a sensor gives the order to advance once the
operator has removed the first mop.

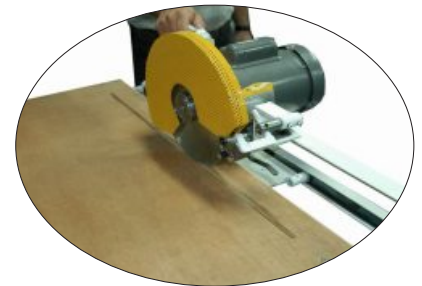
PRODUCTION

It varies depending on operator, but the
average speed is 13 mops per minute.

AREA : The actual footprint of the machine is
only 5'x5' and the total area varies on configuration.

YARN CUTTER[®] Mc1

MANUAL CUTTER, Operator driven,
heavy duty motor using readily available
circular blades, includes custom table.
For low output production facilities



YARN CUTTER[®] Mc2

CUSTOM TABLE SETUP
for standard available cutters
like Wolf, Eastman, etc.
For low output production facilities

Options:
Conveyor belt attachments of any size are available, for easy delivery of materials.

DECKMOP MACHINES

DECKMOP MACHINES : These manual deck mop machines are for small to medium operations, that seek an economical entry to the deckmop market.



Piston powered, for less operator fatigue and to be able to assemble larger size deckmops

Air compressor needed to operate this machine.

DECKMOP ASSEMBLER®
Dm1



Piston powered deckmop machine



Mold custom made for your connector



DECKMOP ASSEMBLER®
Dm2



No power required
No maintenance
Durable and efficient



WIRE WOUND DECKMOP ASSEMBLER®
Dw1



Motorized wire wrapper for deckmops and brooms for less operator fatigue and to be able to assemble larger size deckmops. Includes stick holder clamp.

220 v. Single phase required.

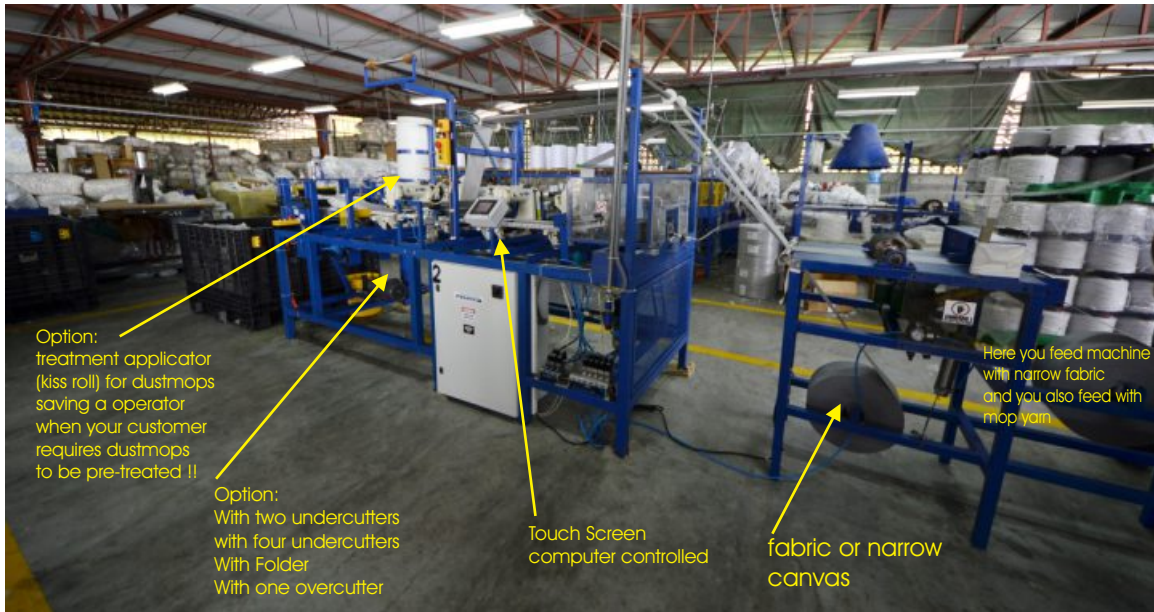
MISCELLANEOUS



DUSTMOP STATION

New Technology !

DUSTMOP & FRINGE



Option:
treatment applicator
(kiss roll) for dustmops
saving a operator
when your customer
requires dustmops
to be pre-treated !!

Option:
With two undercutters
with four undercutters
With Folder
With one overcutter

Touch Screen
computer controlled

fabric or narrow
canvas

Here you feed machine
with narrow fabric
and you also feed with
mop yarn

- Computerized touch screen w/well known brands of controllers and components.
- 4 new singer clones heavy duty sewing machines (fully interchangeable with singer parts - available everywhere!)
- 3 pneumatic cutters (for bottom cutting) and 2 motorized cutters on the machine (for side fringe) (total 5 cutters)
- 1 Kiss Roll application system for water based or petroleum based treatment .
- 1 robotic "hand" that grabs mop tape and pulls it across the dustmop and cuts it, for tie on style dustmops.
- 1 Slitting station that slits the center of the typar at certain programmed interval , utilized in slip on style mop.
- 1 Roll holder for Typar rolls.
- 1 Creel for putting cones for feeding machine.

This means that the machine will sewn the bottoms, the side fringes (long side only), put the ties or the slits automatically and apply the treatment on the dustmop automatically !! , the only thing is required after that is to cut to size, put the fringe on the short sides, finish and pack !!

SPECIFICATIONS

NAME: Automatic Dustmop machine AD-2
 POWER :Single Phase, 220V, 20 amps.
 SEWING MACHINES: 4 custom new 300w singer
 Clones heavy duty sewing machines, touch
 screen computerized control.

Production
 It varies depending on operator and product made,
 but the average speed is 3.3 yards per minute!

Mop Specifications:

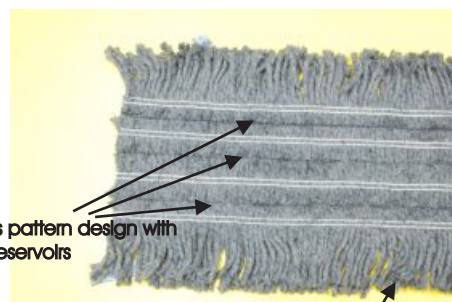
Allows continuous runs of dustmop material
 for 5" type frames for either disposable type
 dustmops or regular light canvas dustmops.



Operation description:

The material is fed from Cones that are put up on a creel included with the machine. This material is fed to the machine and it has a sensor that detect if no yarn passes (because cone got empty) and stops machine from sewing.

At the same time yarn is passing is being looped and laid upon the roll material that is also being fed into machine. This roll material can be slit at certain intervals. Once the material (yarn) and the roll material (typar) are passed several sewing machines sew the yarn onto the roll material, at the time that the bottoms are cut and ties are applied, sewn and heat cut with the robotic arm.



Bottoms pattern design with
3 dust reservoirs

We can make cut end fringe
or loop end, versatility !!!

AD-2 DUSTMOP STATION

- High output
- Reliable, low maintenance
- Cuts down on labor
- Versatile
- Great return on investment



Fringe Machines:



The majority of dustmops are made the traditional way, by hand. The operator uses either cut end or looped fringe to sew around the bottoms and the side fringe of the dustmop.

Our SF-1 utilizes a new singer clone machine (for readily available parts worldwide). A small looper wraps yarn (any thickness) a delivery arm that is later sewn. If you attached the optional cutters on each side then it cuts the looped material.

You can move the machine to one side so that the fringe is off centered so that you can make fringe for the sides of the mop.

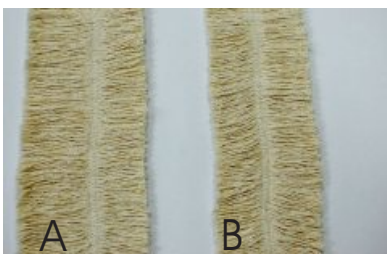


Small footprint, this machine can make loop and cut end fringe !



Loop End Fringe

Loop end fringe example. center sewing or to one side is possible with this machine, the maximum width of the fringe can be discussed and may affect final price.



Here A show fringe to one side, in a 2"+3" configuration, and in B it is centered in a 2"+2" configuration



Cut End Fringe

To make cut end fringe, the operator must install the two cutting motors. again, center sewing or to one side is possible with this machine, the maximum width of the fringe can be discussed and may affect final price.

SPECIFICATIONS



NAME:
Fringer SF-1

POWER
Single Phase, 220V, 20 amps or may be built to customer specifications.

SEWING MACHINE:
Singer double needle chainstitch
OTHER INFO:

Continous run low labor product, density control is input by operator, machine can use twine and yarns from 4/4 ne to 1/4 ply.

MATERIAL HANDLING EQUIPMENT

LOGISTICS and HANDLING EQUIPMENT:

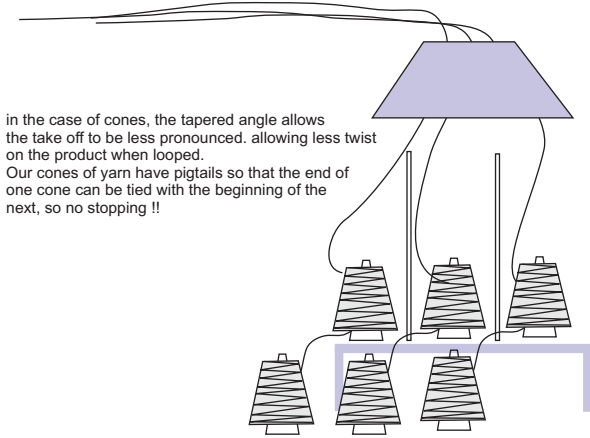
We know that there is wide availability of equipment, but not customized to the mop industry, here we have some material handling equipment specially designed for this type of production. Our yarn creels can be custom modified for your production environment.

Creels for your machines

for cones or ballwarsps



← to Machine



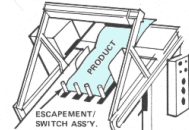
in the case of cones, the tapered angle allows the take off to be less pronounced. allowing less twist on the product when looped. Our cones of yarn have pigtails so that the end of one cone can be tied with the beginning of the next, so no stopping !!

HIGH SPEED MOP BAGGING EQUIPMENT:

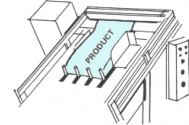
We offer high speed baggers along with custom made conveyor belts to improve your packaging.

Although we do not make these baggers, we modify them to mop maker specs.

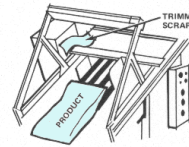
1. Bagged product slides downhill into machine, coming to rest against escapement and automatically activating switch.



2. Jaws close, sealing bag and automatically trimming away excess material above seal.

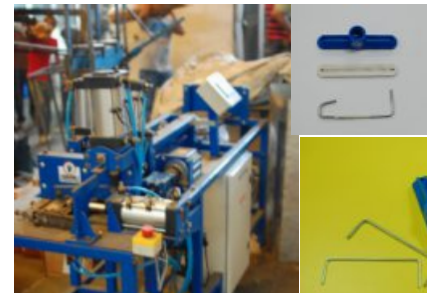


3. Jaws time out and open. Scrap is blown away. Escapement opens and completed, trim sealed package slides out of machine. Machine automatically resets, ready for next package.



WIRE BENDING MACHINES

These machines the following:
 straightens the wire that comes from the spool, then it bends to your specs and cuts the piece.
 Perfect of wire connector mops or paint handles, etc.



High speed screwer ! This machine allows you to screw in the sticks onto the deckmops, brooms & brushes in a fast way. You may screw up to 12 per minute with no user fatigue.

MATERIALS AND SO MUCH MORE...

We make and sell the machines, but we also provide full support. You can consolidate shipments from our sister companies, in one container we can ship machines, connectors, mop tape, mopyarn, and so much more !!!

Plastic Connectors

For your machines

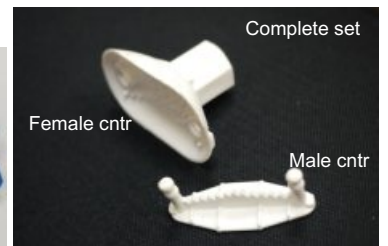
Jumbo Connector - your best choice.

- Low cost, readily available - most popular.
- Durable, efficient.
- Can be used in deckmops from 5 oz. to 14 oz.
- Available in English and Metric thread or screw.
- 100% recycled - great marketing tool.

Available Threads:
Metric (conical)
ACME (english thread/ American)
We can custom make connector fast and at low cost .



You can make large mops !



Complete set

Female cntr

Male cntr



Sell recycled for a better future !



Complete support ... Plastic connectors at affordable prices in the same container with your yarn !!!

Product Prototype discussion

Photo of a Female connector available with Metric, ACME and New Zealand Connector threads. Our wires are galvanized and heavy duty - made to order.

MOP TAPE, MESH AND SEWING THREAD...

its all here !

No need to buy retail, no need to buy by the pallet and pay a fortune in freight. Buy everything in one place and direct from manufacturer ! save !!

Standard Woven Narrow Fabrics



Mop tape / Headbands

- * Mop Tape with several thicknesses and weaving patterns, all specially formulated to resist the abuse that mops are subjected to.
- * Available in 1 1/4 " and 1/2" widths, we can custom make other widths (please inquire)
- * We offer white, woven colors, dyed solid colors. All colors are resistant to bleach/ colorfast.
- * Starched and soft available.
- * Put up on pancakes and rolls.

Jacquard Woven Tape

- * Mop Tape with woven letterings and graphics , these are not printed !
- * Durability and colorfast guaranteed !
- * Available in 1 1/4 " and 1/2" widths.
- * We offer white, woven colors, custom colors
- * Starched and soft available.
- * Put up on pancakes and rolls.



Jacquard Woven Narrow Tape

Imagine the ability to put your name or your customers name on the mop !
It lasts during the life of the mop.... no matter how many times is laundered !

Resistant the strong chemicals and bleach.

Sewing twine and mesh made to order !!



Variety of colors - precut

We can Pre-cut to size also !

CONTACT HIMESA
for all your
mop
manufacturing
needs:



The best machines deserve the best mopyarn in the world...



Buy from our sister company HIMESA ! they manufacture first quality mop yarns , more choices, more blends, yarn counts, twist options, in a variety of colors, as well as titles (thickness) and plies. They also manufacture sewing threads of all kinds as well as mop tapes and mesh. Please visit their web site at www.himesa.hn for further information of contact them at: ++(504)2553-0978 or fax ++(504)2552-2441 or email at himesa@himesa.hn .

DISCOVER
HIMESA
HILOS Y MECHAS S.A. de C.V.

FIBRATEXSA is a manufacturer of custom industrial machines, providing mainly to the mop manufacturing companies specialized equipment. In order to maintain highest quality standards all operations are done in house, including programming, machinery development and design, component acquisition and testing.

LOCATION:

We have two locations, one in San Pedro Sula, Honduras and a site in duty free zone on our property in Choloma, Cortes, only 30 minutes from Port of Cortes and 50 minutes from the nearest international airport. By being located in central America is a key location for fast delivery anywhere in the world, getting here by plane takes just a couple of hours from South America or southeastern U.S.A.

ORDERING EQUIPMENT

We have no inventory of new machines, they are custom built based on customer requested options, our production and delivery is based on first come, first serve basis. Check with our sales representative of an delivery date.

CRATING AND PACKAGING and SHIPPING

We can ship via consolidated cargo, or we can ship full container load depending on volume of products ordered. We can crate to shipping standards.

INSTALLATION

Machinery is sent practically ready to run, we send even some sample cones of sewing thread, yarns and other materials utilized for the initial calibration and testing in order to facilitate matters.

If you like we can send a technician to do the installation for you at your cost.

Manuals will be sent along with machine.

TRAINING AND TECHNICAL SUPPORT

If you would like, you can send someone of your staff to get fully trained in our facilities in the operation, use, installation and maintenance of the machine. This training is free of charge, of course all expenses of your staff in our country are to be paid by your company.

Our technical support personnel can be contacted via phone, video chat conference, email, fax, etc.



When shipping inside a container, we mount machines on pallets (bolted on) and we cover with shrink wrap and cardboard. If we ship in LCL shipment, then we recommend full covering with wood. We pass along our cost for this wooden box.



PO BOX 136
SAN PEDRO SULA, HONDURAS
FAX ++1-504-2558-8142
TEL ++1-504-2558-8141
email himesa@himesa.hn
www.fibratexsa.com

CONTACT US