

what's new from **Malaysia**



**VISION
FOR THE
FUTURE**

EXPLORE THE LATEST PRODUCTS AND SERVICES FROM MALAYSIA



MALAYSIA EXTERNAL TRADE DEVELOPMENT CORPORATION
www.matrade.gov.my

MESSAGE FROM CEO

Welcome to the 20th edition of "What's New From Malaysia".

Evolving knowledge and generating ideas into innovative products and services that benefit the society, is not a straightforward process. It takes the right partnerships, often the most critical link between research and industry to birth projects that not only attract consumers acceptance but also yield a social and corporate bounty.

Thus it is with great pleasure that this issue showcases an exciting array of innovative products, targeted for both consumers and industries. From sleek, environmentally-friendly electric scooters and autonomous robots, to inventively green clean oil fryers and syariah-compliant halal products; there are undeniably some real gems covered in this edition.

Malaysian designers and innovators have continued to create novel products and service solutions that should open new opportunities for growth and accelerate business performance. We, at MATRADE are truly pleased to highlight some of Malaysia's most creative talents and entrepreneurial ideas in this issue.



Malaysia External Trade Development Corporation (MATRADE), is a national trade promotion agency under the Ministry of International Trade and Industry (MITI) to develop and promote Malaysia's export to the world.

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Chief Executive Officer
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**what's new from
Malaysia**

**WHAT'S
NEW FROM
MALAYSIA**

is a complimentary publication published by MATRADE that provides regular updates on Made-In-Malaysia products and services to the international business community.

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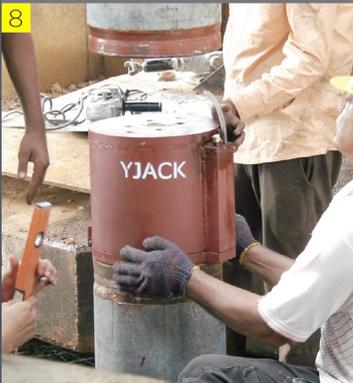


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HYDROGEN ENGINE DECARBONISER: CLEANING YOUR ENGINE FROM THE INSIDE

As a car owner, getting your car washed is a common activity. What many people don't realise, though, is that there are areas deep inside the car that require maintenance and cleaning too.

The engine is prone to carbon build-up over time, especially when the car is subjected to incomplete combustion processes. This can result in a number of issues that affect the performance of your car, including rough cold starts, less acceleration power, odd noises and intense vibration while idling.

By using NEUTO Therapy™, you can remove the stubborn micro-molecular carbon layers in hard-to-reach places such as air manifolds, piston rings, valves, and spark plugs in just 20-30 minutes – all without causing any damage to the car engine wall and engine components. NEUTO™ Dry Hydrogen Auto Therapy™ naturally cleanses your car engine in the most sustainable, organic way.

Uniquely Safe and Smart

NEUTO™ Dry Hydrogen Auto Therapy™ delivers engine cleaning at a level far beyond other engine decarbonisers in two important respects. Unlike typical hydrogen decarboniser solutions, which use high-voltage electricity to produce combustible oxygen and hydrogen (brown gas) from water, NEUTO™ stores its hydrogen in solid form as a metal hydride canister. Metal hydride is so safe and stable that it is permitted aboard airliners.



With its built-in emission gas analyser and world-first patented iEGA Technology, NEUTO™ is the only smart engine cleaning system to assess your vehicle condition before automatically adjusting the appropriate hydrogen treatment. This ensures a unique and custom-calibrated treatment based on the engine condition, as prescribed by the NEUTO™ algorithm.

About Neutrinos Engineering Sdn Bhd

Founded in 2011, Neutrinos Engineering Sdn Bhd was first established as a dedicated small R&D start-up. Since then, the company has grown and evolved into a reputable Innovative Products and Technology Development Company that delivers various engineering solutions to a range of market segments. Neutrinos Engineering Sdn Bhd currently caters to the

Malaysia and Singapore markets and is looking to expand its distribution channels to Taiwan and China.

AWARDS

- SEC-Senoko Energy Green Innovation Award 2015
- SITF Finalist 2015 Award
- Singapore Sustainability Award 2015

NEUTO

Breathe Hydrogen. Breathe Power.

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ECLIMO ELECTRIC SCOOTER: THE GREENER CITY VEHICLE

Commercialised in 2012, the Eclimo electric scooter strives to be the greener option for those seeking a handy vehicle to commute with. Powered by a lithium ion battery, the Eclimo scooter produces no emissions and is completely pollution-free with a low carbon footprint as compared to scooters with traditional fuel-based engines. The scooter is also a great cost-saving option as it allows people to save greatly on petrol costs.

The Eclimo scooter is pleasing to the eyes and ears, with a chic futuristic exterior, seven colour options, and less engine noise. With a top speed of 100 kilometres per hour, this electric scooter is an affordable, green

alternative for anybody living and travelling within the city.

About Eclimo Sdn Bhd

Eclimo Sdn Bhd is a 100% Malaysian-owned electric vehicle company, founded in June 2008. With a vision of championing the nation's contributions towards sustainable energy, Eclimo Sdn Bhd focused its efforts on using sustainable energy in its products. With its headquarters based in Penang, Eclimo Sdn Bhd markets its vehicles locally and export to Cambodia.



CERTIFICATIONS

- SIRIM
- Malaysia Road Transport Department Certifications
- EC Homologation

Vehicle Specifications

| General Specifications | |
|---------------------------|-----------------------|
| Product: | ES11 Electric Scooter |
| Weight: | 155kg |
| Tyres: | 130/60-13in |
| Front/ Back Brakes: | Hydraulic Disc Brake |
| Front/Rear Suspension: | Hydraulic (Oil/Gas) |
| Dimensions(mm): | 1945 x 720 x 1140 |
| Wheelbase(mm): | 1410 |
| Ground Clearance(mm): | 150 |
| Payload(kg): | 212 |
| Battery | |
| Battery Type: | Lithium Ion |
| Capacity: | 3078 WH |
| Battery Weight: | 50kg |
| Battery Life: | 1,000 cycles |
| Charging Voltage (input): | 110V/240V |
| Motor | |
| Motor Type: | 11in Radial Hub |
| Max Power: | 6,000W |
| Continuous Power: | 5,000W |
| Torque: | 110Nm |



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HALAL

MUSLIM FRIENDLY PRODUCTS & HALAL CLEANING SOLUTION FROM INTERNATIONALLY-RENOUNDED HALAL CLEANING EXPERT

Ensuring syariah compliance can be difficult. In a world so multicultural and mixed, coming into contact with arguably non-halal substances and unclean areas is almost a daily occurrence. Whether it be accidental contact with a dog or a kitchen or transport vehicle that previously contained non-halal ingredients, proper cleaning is a must.

MIFF Holding offers a deep-cleansing halal cleaning service designed to bring your environment back to syariah compliance. Lab tests show that Clay MIFF can eliminate powerful bacteria and microbes found in major impurities by up to 99%.

Green Islamic Cleaning Solution

Clay MIFF solution works well with GMP, HACCP and HSE procedures in the oil and gas, FMCG, logistics and other service based industries such as hospitality. Clay MIFF solution has made significant inroads into the following industries:

- * Supply Chain & Logistics
- * Food and Beverages
- * Oil and Gas
- * Commercial Shipping
- * Facility Management

An Easy, Halal Cleaning Alternative

Due to popular demand, MIFF Holding also began to market a range of personal cleaning products. Bioclay is personal care



product for home and family. Clay MIFF is halal cleaning solution product for industrial. These cleaning products use 100% natural, pure refined clay, in order to give all Muslims easy access to religiously-mandated cleaning options.

Clay MIFF and Bioclay products come in the form of soap bars, powders, bottles and liquid dispensers to suit household's and industrial's needs.

About MIFF Holding Sdn Bhd

Datuk Hj Ab Razak Bin Ab Hadi is the founder of MIFF Holding Sdn Bhd, which began as a small research company in 2006. Initially, the setup was to study the scientific and commercial value of clay as an alternative green cleaning solution. Through a joint collaboration with local universities, MIFF Holding Sdn Bhd developed the Clay MIFF green cleaning solution. Clay MIFF solutions and Bioclay personal care

products are now distributed both locally and overseas in Japan, Indonesia, U.A.E, Egypt, and Singapore.

CERTIFICATIONS/AWARDS

- SIRIM
- Winner for HALAL-HI-TECH Challenge 2015
- JAKIM (Halal Certification for Clay MIFF and Bioclay product)
- Patent ID (PI 2013061381)



MIFF HOLDING SDN BHD

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MAMAPRIDE: PROTECTING THE MODESTY OF WOMEN EVERYWHERE

Modesty is very much a personal choice, often shaped by existing cultural norms and religious beliefs. Many women are very particular about how the world sees them - this is why it can be especially distressing for women to go in for medical procedures, such as pap smears and giving birth, that require them to bare more than what they are comfortable with.

Though some exposure is unavoidable, areas such as the legs and thighs can be protected. There's where Mamapride comes in.

Mamapride pants are a special variety that allow easy access to the crotch area while keeping the legs covered. This means that women will be able to avoid exposing their legs and stomachs to doctors and nurses in attendance, giving the women a more comfortable experience overall.

A Versatile Product

Though Mamapride pants are designed for pregnant mothers and women undergoing gynecological procedures in mind, their use can be transferred to other scenarios. Mamapride crotchless pants can also be useful for those recovering from surgery and for elderly individuals who require assistance from caregivers. The possibilities are endless.



- Comfortable mixed cotton material
- Lycra abdomen and knee coverings to absorb pressure and provide comfort
- Pleasing, colourful patterns and style

About Koperasi Amal Medik Malaysia Berhad

A company made up of medical care specialists and dedicated tailors, Koperasi Amal Medik Malaysia Berhad first envisioned Mamapride pants in 2009 and made realized in November 2014. Since then, Mamapride pants have gone on to sell nationwide - and expansion plans are on the horizon. Catering primarily to the halal market of nearly 1.8 billion muslims,

Koperasi Amal Medik Malaysia Berhad expects to begin supplying to other regional countries soon.

Mamapride
Maruah • Elegan • Taqwa • Cinta

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INDUSTRIAL

SAVE COST. SAVE TIME

YJACK: THE BEST PILE LOAD TEST

Pile load tests are mandatory in the building construction process to deliver assurance of the structural integrity of the foundation. The conventional method of pile load test (using kentledge blocks or anchor piles) can be cumbersome and tedious due to the logistical difficulty of setting up the test and moving numerous weights into the project site.

The YJACK method is an innovative and advanced technology to conduct the pile load test which is not only equivalent but superior to the conventional method. Using YJACK, you can save cost up to 30-50% and shorten the timeline from a few weeks to a few days.

YJACK pile tests are environmentally-friendly as they are fewer resources intensive and safe. Furthermore, YJACK pile tests are applicable to all types of piles, from small to large piles, including offshore piles.

The Benefits of YJACK Method:

This YJACK is by far the best compared to the conventional method. The benefits are:

- a. Cost saving (30 - 50%);
- b. Time saving (from 10 days to 1 day in preparation);
- c. Eco-friendly, green and safe
- d. Suitable for all types of loads
- e. Suitable for all types of piles

About YJACK Technology Sdn Bhd

YJACK Technology Sdn Bhd is the world's leading pile test specialist,



STATIC METHOD
(CONVENTIONAL)



YJACK METHOD
(INNOVATIVE)

| | | |
|------------------------|----|---|
| Expensive | \$ | Economical (30%-50% cost saving) |
| Slow and Tedious | ⌚ | Fast and Simple (10 days to 1 day time saving) |
| Large Work Platform | 🏗️ | Environmental Green |
| Limited Test Load | 📊 | Unlimited Test Load |
| Not for Offshore Piles | 🌊 | For All Types of Piles |
| Dangerous | ⚠️ | Safe |

with 25 years of experience in the field. To date, YJACK Technology Sdn Bhd is one of the worldwide companies that is capable of conducting ten types of pile test methods competently.

The latest pile testing service from YJACK Technology Sdn Bhd is currently being offered in Malaysia, Singapore, Indonesia, Southeast Asia, China, and India.



CERTIFICATION/AWARDS

- The Finalist in the International Construction Industry Council Innovation Award
- Gold Medal in the 26th International Invention & Innovation Exhibition
- WIPO/PCT International Patent Pending

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INNOVATIVE AUTOMATED MOBILE ROBOT SOLUTIONS FOR YOUR COMPANY

Companies nowadays are becoming increasingly fast-paced, answering the growing needs of the consumer market. Many companies, however, find themselves hitting productivity-draining roadblocks in the form of time-consuming repetitive tasks eating up workers' time.

The DF Automated Guided Vehicle (AGV) was purpose-built to alleviate this issue. Using sensors, the AGV can follow pre-determined magnetic strip tracks across the floor. It is useful for transporting materials such as pallets, rolls, racks, carts, trolleys and containers, delivering them to a final destination. Once programmed, the AGV is able to work independently through the day.

The AGV is also capable of putting itself in to charge. When it detects its own low battery levels, the AGV will drive to a self-charging station, where it will neatly slot in and power down.

Improving Productivity Since 2012

The DF AGV is customisable, built to meet the needs of the customer. This greatly benefits the company to reduce labour reliance while increasing efficiency and work place safety.

Besides, the installation of DF AGV is simple where it does not require major modification of existing process and facilities of a plant.

Industries currently benefiting from AGVs include (but are not limited to): manufacturing, textile, automotive, warehouse, cleanroom, food & beverage and hospital.

* Future models will be capable of carrying up to 2.5 tonnes of weight. Trackless versions coming soon.



AWARDS

- Best Start-Up Company in MSC Malaysia APICTA Awards 2015
- Best Industrial Application MSC Malaysia APICTA Awards 2015
- Merit in APICTA Awards 2015
- Finalist in BizSmart SME Challenge 2014
- Merit in Korean Invention Award 2013

About DF Automation & Robotics Sdn Bhd

Incorporated in 2012, DF Automation & Robotics Sdn Bhd provides effective automated solutions to the manufacturing industry. DF's award winning pioneer project, the Automated Guided Vehicle (AGV) was designed and manufactured in Malaysia and is now distributed throughout the region including Singapore, Vietnam and Indonesia.



DF AUTOMATION & ROBOTICS SDN BHD

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INDUSTRIAL

ZAP-UP* ANTI-STATIC SHOES

Static electricity is one of the unavoidable hazards of production lines. The handling of materials that takes place on assembly lines results in static electricity, the build-up of which can be severe. A high concentration of static electricity can result in static discharges, which can cause irreversible damage to delicate circuitry and even ignition of flammable vapours and powders.

Factories have taken to reducing the likelihood of this by having their workers wear static-dispelling

wristbands, but these are often uncomfortable and limiting for workers and don't always work.

The Zap-Up* shoe is invented to address this issue. With its foam body and built-in voltage reduction elements, the Zap-Up* shoe is the perfect alternative to traditional anti-static options.

The Zap-Up* shoe is also designed to be low-maintenance, with a long-term lifespan. The body of the shoe is made out of a non-abrasive material that is comfortable to wear

and easy to clean, with a self-cleaning sole.

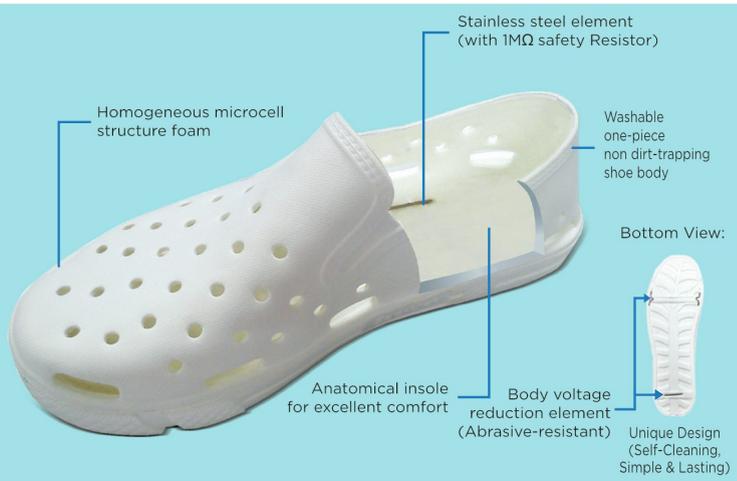
With the Zap-Up* shoe, it's easy to ensure productivity and safety go hand-in-hand.

About TAKO Astatic Technology Sdn Bhd

Since 1979, TAKO's Electrostatic Discharge (ESD) products have gained widespread market acceptance in numerous countries. With a team of experienced ESD professionals, Ph.D holders and iNARTE Certified ESD Engineers, TAKO Astatic Technology Sdn Bhd is now known as one of the largest and most experienced ESD product manufacturers. TAKO Astatic Technology Sdn Bhd products are exported to Indonesia, India, Australia, Singapore, China, Vietnam, Thailand and the Philippines.

| | Zap-Up* | Standard ESD shoe |
|------------------------|--|---|
| Price | Competitive | Competitive |
| ANSI/ESD S20.20 | Meets life-time compliance | May or may not meet compliance |
| Elec Resistance | Better (1MΩ to 2MΩ) | Typically 10e6 to 10e8 Ω |
| Body Voltage | Meets <30V body voltage | Generally can't meet <30V & may or may not meet <100V |
| ESD Permanency | Permanent for life | Often non-permanent with migratory additives |
| Safety | Complies to the S20.20 electrical hazard limit | May or may not comply to S20.20 |

CERTIFICATIONS/AWARD
 • ISO 14001
 • ISO 9001 (2000)
 • ITEX Silver Medal for Invention of ESD Garment and Tailless ESD Shoe Cover



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PALMPRO® HARVESTER: CUTTING YOUR LOAD IN HALF

Harvesting fruit from tall trees is one of the most common agricultural pursuits, yet it is one that remains a chore for many harvesters to this day. Traditional harvesting poles are notoriously unwieldy and difficult to manoeuvre; many poles aren't even capable of reaching the heights necessary to collect the best and juiciest fruits without causing strain and potential injury to the harvester.

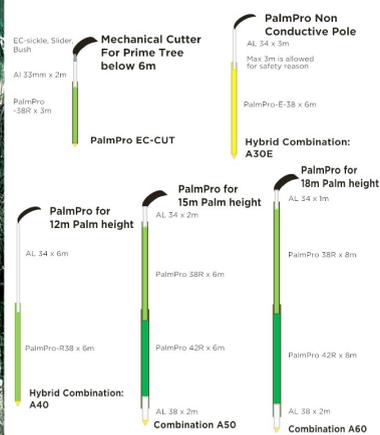
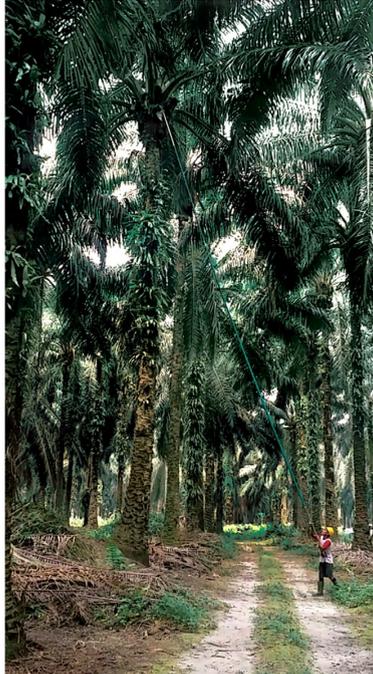
PalmPro® Graphite harvesting poles are unique in that they have been custom-built to make life easier for harvesters. Made from incredibly lightweight materials that are nonetheless impressively sturdy, PalmPro® poles can cut a harvester's workload in half, enabling them to become more productive than ever.

Main Features:

- Super light and strong
- Telescopic, adjustable sliding pole that allows harvesters to customise the height
- Durable and long-lasting
- Non-slip and easy to repair

Main Benefits:

- Solves the current difficulty of using heavier aluminium poles or bamboo
- Allows workers to harvest tall palms of up to 18m (60ft) easily
- Boosts productivity by 30% and helps to solve the issue of low harvester numbers
- Helps harvesters recover rotten and damaged bunches that went unharvested
- Shortens the intervals between harvesting and reduces the quantity of loose fruit



About TenAsia Corporation Sdn Bhd

TenAsia Corporation Sdn Bhd successfully developed the PalmPro® Graphite harvesting poles after seven years of intensive development, using high-tech carbon fibres imported under strict regulation from the USA and Japan. TenAsia Corporation Sdn Bhd exports the PalmPro® to numerous countries, including Indonesia, Thailand, Sri Lanka, Brazil, Honduras, Colombia, Guatemala, Costa Rica and Mexico. As it continues developing, TenAsia Corporation Sdn Bhd seeks to improve its market

penetration in both existing and new markets.

TenAsia

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GREEN

PORTABLE, HEAVY-DUTY POWER BOX FOR ALL YOUR ON-THE-GO ENERGY NEEDS

With great convenience come great expectations. In today's world, easy access to power sources is not only appreciated; it's expected. This can be a problem, however, for those who find themselves in areas without any nearby mains outlets. Till now, the power source of choice for those on the move has been fuel-based generators; bulky, noisy, smelly things that spew considerable amounts of pollution into the air and are bad for the environment.

The Eclimo Power box was created to answer the need for an environmentally-friendly portable power source. Powered by a Lithium battery cell, the raw energy is converted into usable energy that you can simply plug into it without hassle. Lithium batteries are fast-charging and efficient, making it a great alternative to traditional petrol generators.

All Eclimo Power boxes also come with a built-in 3-pin socket and two USB ports for added convenience.

A Sunny Alternative

For those living in rural areas away from power grids, an optional solar panel can be used to charge the Eclimo Power box. With this, users will no longer need to concern themselves with the logistics of purchasing fuel or performing maintenance checks on their generators; power will always be just a sunny day away.

About Eclimo Sdn Bhd

Eclimo Sdn Bhd is a 100% Malaysian-owned Electric Vehicle company,



CERTIFICATION/AWARD

- SIRIM QAS
- SME's INNOVATE AWARD 2013



founded in June 2008. With a vision of championing the nation's contributions towards sustainable energy, Eclimo Sdn Bhd focused its efforts on harnessing sustainable energy for its products. With its headquarters based in Penang, Eclimo Sdn Bhd markets its portable power both locally and export to Cambodia.

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GREEN KENAF MATTRESSES: PROTECT THE ENVIRONMENT AND YOUR BACK

Globally, the demand for green products is on the rise. As consumers become more cognisant of the long-term harms of waste and pollution, many are turning to more natural product options.

With finaf, every mattress is a slice of nature. Made from kenaf, a fibrous plant native to Asia, these mattresses are biodegradable, anti-dust, spring-free, durable, and contain no harmful chemicals.

Rest easy at night knowing your mattress is environmentally-friendly and made from sustainable materials.



Why You Need A Kenaf Mattress

| |
|---|
| • 100% green and environmentally-friendly |
| • Odourless |
| • No harmful chemicals |
| • Anti-dust |
| • Naturally medical |
| • Firm and supportive |
| • Premium back support |
| • High-durability |
| • Optimum air circulation |
| • No springs |
| • Biodegradable |
| • Better stress resistance |



CERTIFICATION/AWARDS
 • SIRIM QAS
 • Conference Competition Exhibition, (CCE 2014) Polytechnic
 • I-ENVEX, UNIMAP 2015



About Dr Rahmatullah Holdings Sdn Bhd

Established in 1999, Dr Rahmatullah Holdings Sdn Bhd began with a simple vision: to make environmentally-friendly, healthy and ergonomic mattresses for society. Catering to a range of end users across a diverse spectrum of industries, the company uses nothing but 100% pure kenaf plant by-product that is proven to have many green features.

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DIY CERVICAL CANCER COLLECTION KIT FOR WOMEN

Cervical cancer is the third most common cancer affecting women in Malaysia. Vaccination can reduce the risk of contracting the disease by 70 percent. However, women are still susceptible to cervical cancer. They often ignore the importance of checking due to shyness and embarrassment they have experienced during pap smears which involve exposing themselves.

Making Cervical Checks Accessible for Everyone

Cervisafe is created to help ensure women worldwide get the essential checks they need while retaining their modesty.

Cervisafe is designed and produced under an ISO13485-certified system. Cervisafe is user-friendly, safe and reliable. It allows women to collect their own samples for cervical cancer screening in the comfort of their own home; five minutes is all it takes!

In Malaysia, after the sample collection, all they need to do is call the hotline of LaDIY Cervisafe to get the sample picked up and delivered to LaDIY for laboratory testing. To continue providing this service, distributors in other countries need an access to a laboratory for testing. LaDIY can help overseas distributors to establish their own medical testing laboratories.

About LaDIY Healthcare Sdn Bhd

With domestic cervical cancer cases on the rise, a group of



Women can now collect their own samples for cervical cancer checks in the comfort of their own home.

CERTIFICATION

• ISO 13485

Cervisafe

LADIY HEALTHCARE SDN BHD

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enterprising researchers, doctors and laboratory technologists saw a dire need for an alternative method of cervical sample collection that could encourage women to undergo health checks. Thus, the LaDIY Healthcare Sdn Bhd team was formed with the simple goal of making healthcare a more attainable goal for all women.

LaDIY Healthcare Sdn Bhd currently operates in Malaysia, delivering Cervisafe kits nationwide and ensuring the safe collection of all submitted samples. In the future, LaDIY Healthcare Sdn Bhd is looking to expand globally to address the needs of foreign markets.

FRESCO: THE CLEAN, FILTERING DEEP FRYER

Deep-fried foods are one of life's little guilty pleasures, but the process of frying can often be somewhat wasteful. This is because the oil used for frying tends to go bad very quickly, taking on a blackened, burnt colour due to all the sediment and debris that flakes off the food into the oil. This can be not only distasteful but unhealthy to the consumer, and the only existing solution till now has been quick oil turnarounds, throwing out oil that has been used two to three times in favour of new oil.

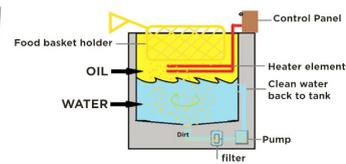
The FRESCO fryer is built to counter this problem. With a wholly-unique design, the FRESCO fryer brings oil, water and a water-filtering system together to make a single great product.

The Cleaner Frying Option

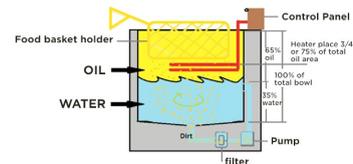
The FRESCO fryer takes advantage of the natural chemistry of oil and water to provide a cleaner oil experience. Using the FRESCO fryer, all debris from frying foods falls down through the oil to the water below. There, a water pump suctions out the debris-filled water, passing it through a filtering system to clear out the particles. Clean water is fed back into the base of the fryer while sediment is cleared away, ensuring the oil above stays clean and clear, good for several uses.



Fresco water and oil filtering fryer



Fill in volume and percentages of water and oil



About TKS Winwell Equipment Supply Sdn Bhd

TKS Winwell Equipment Supply Sdn Bhd came into business in 2011, as a supplier of computer-aided design work and industrial equipment and food machinery. The company offers custom-built, made-to-order finished products, created to customers' specifications. In the long term, TKS Winwell Equipment Supply Sdn Bhd has plans of expanding through Asia, distributing directly to end users in a multitude of countries.

fresco®

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