

Techcare

TECHNOLOGY THAT CARES

www.techcareinnovation.com



Techcare Innovation Sdn. Bhd. (1098460-H)

Address : 5, Jalan Selatan 3, Taman Perindustrian Ringan Pulai, 81300 Skudai, Johor, Malaysia.



Technology that Cares

"Techcare Innovation is an ISO 13485 certified Malaysia Local Technology Company that strive to provide user-friendly and cost-effective healthcare and rehab technology solutions for the optimal recovery of all individuals in need"



*Certification may vary based on each products.

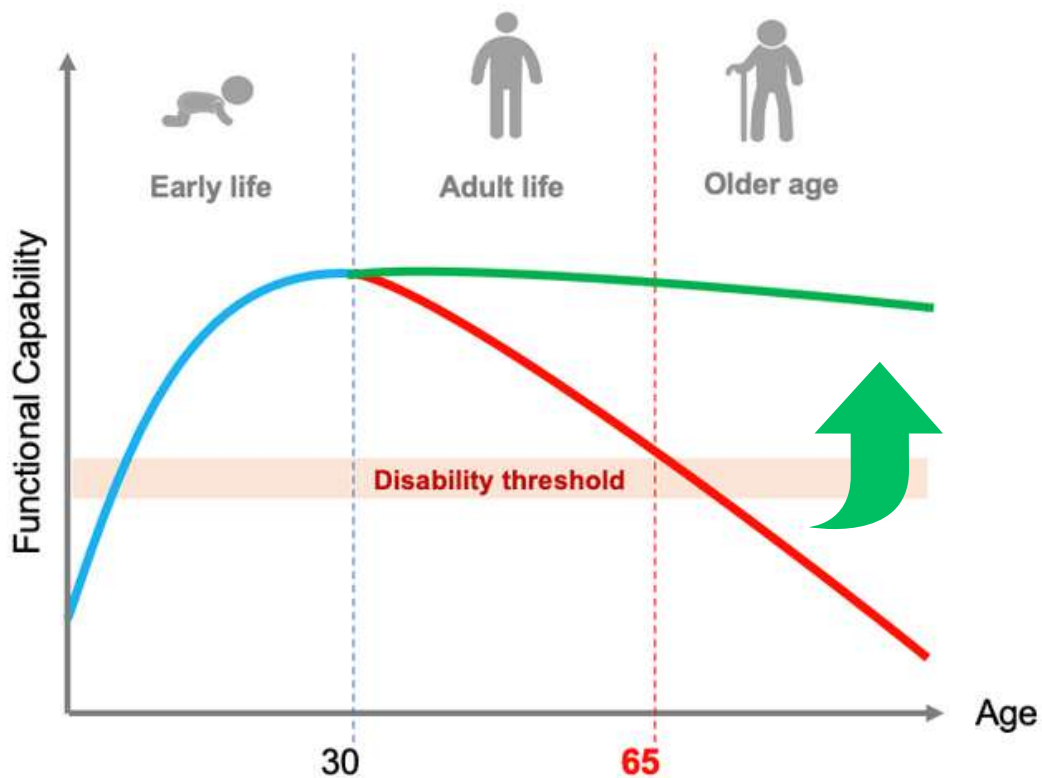
Human Performance Solution

OUR VISION

To be the leading human performance technology solution provider that empower human in achieving their best possible quality of life

OUR MISSION

To provide cost-effective human performance technology solution, so that our valued customer can achieve their best possible performance and recovery with the support of our caring team.



*World Health Organization (WHO), 2002. Active ageing: a policy framework.

Our Partners

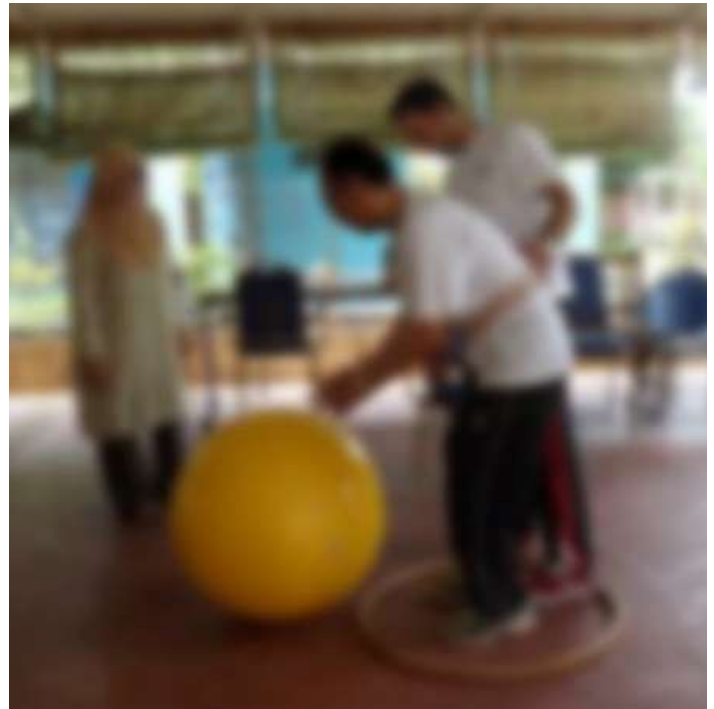


Story of Technology that Cares

Techcare is a story of "technology that cares". It was founded by passionate engineers who wanted to make a change in the lives of people in need.

The idea started after they visited a stroke center during their student days in 2012 and realized the pressing need for technology in physical recovery.

They turned their dream into reality by founding Techcare in 2014 with the goal of empowering every human physical capability with the power of technology.



Presented to Tun Mahathir, former Prime Minister and Datuk Dr Noor Hisham Abdullah Director General of Health, Ministry of Health, Malaysia.

Supported by



Award and Achievement

Won Over 30 Innovation Awards



Techcare Team of Experts

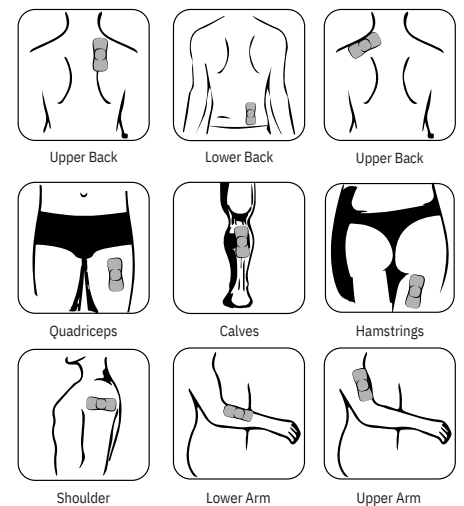


Techcare Hand Robot (HR-30)



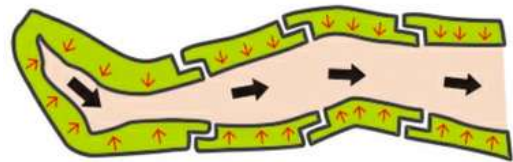
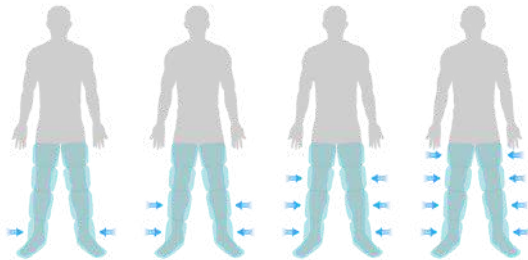
Hand Robot (HR-30) is a hand rehabilitation robot that provides over 20 different kind of assisted therapy, mirror therapy and compression therapy to reduce spasticity, increase muscle strength and flexibility of the hand.

Techcare Wireless TENS

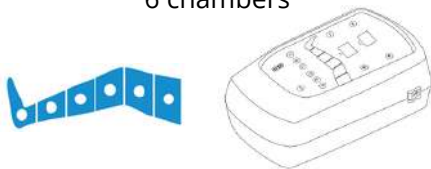


Techcare Wireless TENS device provide effective pain relief and promote muscle relaxation. With 15 therapy modes and 16 levels of intensity, this wireless device offers customizable treatment options to suit your needs anywhere you go.

Techcare Recovery Boot



6 chambers



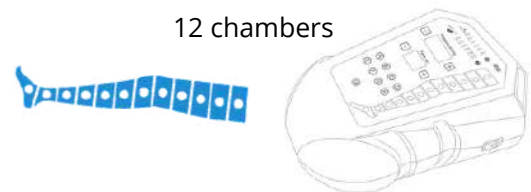
RB-60

8 chambers

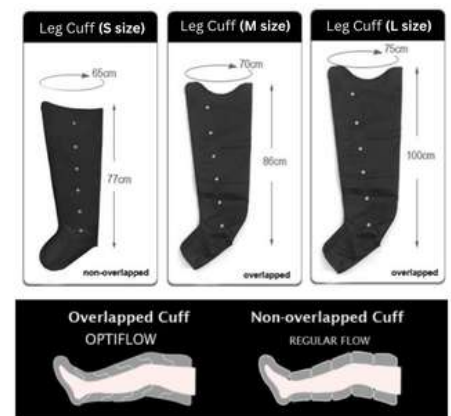


RB-80

12 chambers



RB-120



Techcare Recovery Boot is also known as intermittent pneumatic compression (IPC). It is a therapy that is useful for athlete muscle recovery and blood circulation condition.

Techcare Compression Therapy

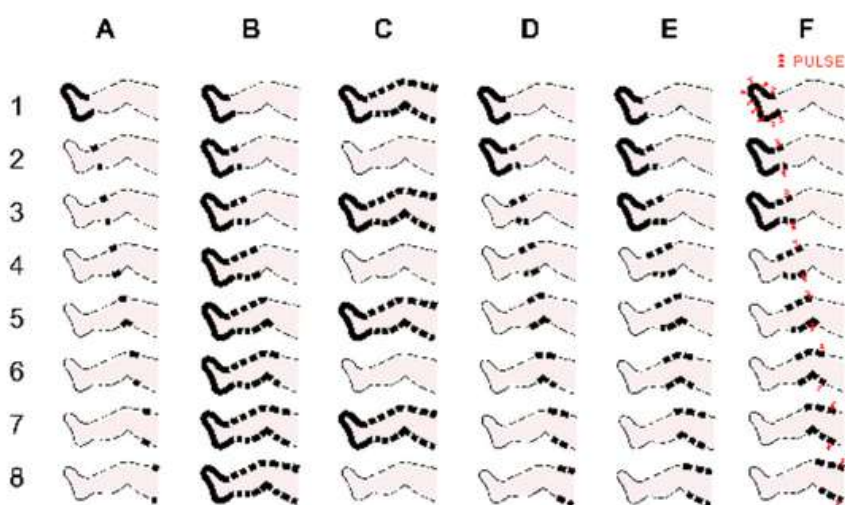
6 chambers



8 chambers



12 chambers



Shorts (Unisize)



Long Pant (Unisize)



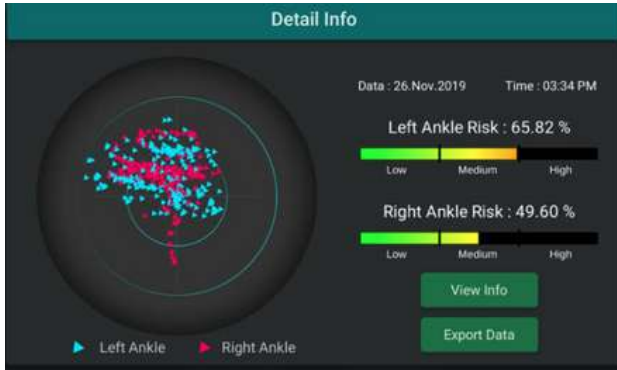
Innovative Technology
To set pressure level flexibly and freely, to optimize the recovery

Pressure Individually
It can differentiate pressure level for each chamber, such as 90 for 1st, 120 for 2nd....

*This unique function is only available in 12 chamber version

Techcare compression therapy is also known as intermittent pneumatic compression (IPC). It is a therapy that is useful for athlete muscle recovery and users with lymphedema, post-surgical swelling, and poor blood circulation condition.

Techcare Balance Board



FIBOD is an instrumented balance board to enable analysis on balance and leg performance with calculated balance measures in less than 1 minute. It also provide varioud training program and virtual reality games for interactive training.

Techcare Wrist Robot



CR2-haptic is a compact robot for wrist and forearm training. It come with engaging and motivational virtual reality game training and robotic assistance for the user to train their wrist and forearm movement.

Techcare Motion Analysis



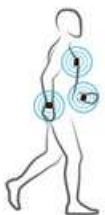
MOVEO EXPLORER
Full-Body Kinematics
Break outside the lab to explore full-body kinematics



MOBILITY LAB
Gait and Balance Analysis
Assess functional mobility anywhere



MOTION STUDIO
Raw Movement Data
An inertial data acquisition system



Techcare Motion Analysis is a fast, accurate and easy to use yet powerful wearable motion analysis that provides sensitive, reliable, and valid outcome measures for assessing functional mobility using standardised mobility and balance test using wireless wearabl esensors.

Ceiling Hoist Robot



CH-300 (GAIT)



CH-600 (TRANSFER)

Ceiling hoist robot come with 2 version which is used for transfer of patient or for gait training. The transfer hoist allow patient to be transfer with ease from bedroom to other places. The gait training hoist is useful for gait training and daily activities simulation.

Techcare Driving Simulator 2.0

Techcare Driving Simulator 2.0 is the latest compact and portable car driving simulator that provide a realistic pre-driving training practices with training and assessment software.

The system provides both hardware and software that simulate 20+ realistic car driving course for the user to relearn the driving skills suitable to be used in rehabilitation center, driving school, and research center. Techcare provide after-sales local technical support to ensure the continuity of the product usage.

**1:1**

Actual car dimension

**3D**

Modern and quality graphics

**20+**

Driving Course Scenario

**3 mins**

Setup time

**100%**

Safe driving training

**0.01s**

Reaction time precision

**DS-30****DS-50****DS-90**

Techcare Heated Massage Gun

MINI



MG-30

STANDARD



MG-50

PROFESSIONAL



MG-90

The patented heated massage gun uses vibration and heat therapy to provide deep tissue massage and relieve muscle tension and soreness. The heat therapy helps to increase blood flow to the area, which can improve circulation and promote healing.

Rechargeable Cordless Massager



This rechargeable cordless massager is a portable pneumatic compression wrap. It helps improve circulation, athletic recovery, and is helpful for people who have swelling, tension, and restless leg syndrome to reduce pain and soreness.

Pain Relieving Gel

Added with **MSM**



Cool-X Roll-on Cold Gel or Ice Power Gel is an easy-to-use and drug-free reliever of muscle and joint pain. Reduces swelling and inflammation. Used to trigger muscle tension and to speed up muscle recovery from exertion. Excellent help in treating stress injuries and can also be used for further treatment of sprains and sprains after acute cold therapy.

Cool-X Roll-on Cold gel contains MSM, is colour-free and suitable for the whole family.

Analog TENS



This user-friendly transcutaneous electrical nerve stimulation (TENS) unit boasts the latest in microprocessor technology, featuring precise dial and timer performance. It help reduce pain and muscle spasms caused by a wide range of conditions including arthritis, period pain, pelvic pain caused by endometriosis, knee pain, and sports injuries.

Analog EMS



Electrical muscle stimulation (EMS) unit come with wide range of contraction, relaxation, ramp time and pulse rate. It has 3 options of pulse duration setting: 100, 200 and 300s. Dial switches are clear and simple to use. Pulse Amplitude: 0-80mA peak to peak into 500 ohm load. Pulse Rate: Adjustable, 2 ~ 150 Hz Pulse.

Ripple Mattress



MT-30



MT-50



**MT-90
(ADVANCED)**



The ripple mattress with multiple function and adjustable pressure has an uneven surface to help relieve pressure on areas of the body prone to pressure sores for different stage, reducing the risk of them developing.

Portable Therapeutic Ultrasound



The US Pro 2000 offers professional strength 1 MHz ultrasound in a portable package. The device is strong and durable with three intensity settings. Therapeutic ultrasound device that generates deep heat to effected area, perfect for use in the clinical or home care environment.

Wireless Handheld Ultrasound Scanner

FDA CE 0123 TÜV

Wrist blood vessels

Hepatic blood flow

Completely Wireless

Free APP

HD images

This wireless handheld ultrasound is an easy to carry device with only 230g, embedded with advanced digital imaging technology. It has both linear and convex probe, that able to scan for Vascular, MSK, Pediatrics, Breast Thyroid, Carotid, Small Organs, Abdomen, Cardiac, Gynecology Obstetrics, Urology, and Kidney.

Electric Treatment Bed



Leather Quality



Children

Adult



Wide range of electric treatment bed are available to fit for various the purposes of clinical and wellness usage. The leather quality is fire proof and the electric pump come with solid 2 years warranty, allowing you to use with peace of mind.

Transfer Aids



TA-30



TA-50



Height Adjustable
44cm - 70cm



TA-70



TA-90



This electricity-free transfer aids device make transfers easier and safer for patient with only one carer. It help to ease of work while transferring the user from one place to another while encouraging natural movement using active movement from the patient.

TheraPutty

XX-Soft, Tan

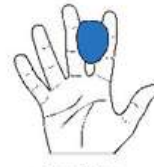
X-Soft, Yellow

Soft, Red



Medium, Green

Firm, Blue



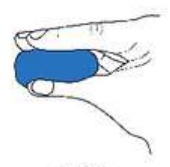
Finger Scissor



Fingertip Pinch



Power Grip



Flat Pinch



Finger Spread



Finger Extension



Finger Spread



Full Grip

TheraPutty® delivers a simple, effective resistance based training routine which helps to develop a strong, capable grip. Its silicone-based material with multiple strength level from soft to firm, enable user to use in many of their hand strengthening programs.

Grip Ball

10 pounds



25 pounds



30 pounds



The grip ball strengthener features small intensity and good elasticity, which is convenient for the user to have grip and finger exercise. The ball won't fall off and is good for training. It is equipped with finger holes for easy wear and allows you to adjust the tightness. Suitable for small hand function impairment, finger strength and grip strength training.

Hand Splint

HS-10 (KID)



(Suitable for ages 1-5)

HS-20 (TEEN)



(Suitable for ages 5-15)

HS-30 (ADULT)



(Suitable for ages above 15)

HS-50 (ADULT ADJUSTABLE)



The splint is made of high quality plastic and silicone. It provide strong support and maximum comfort, can be fixed wrist and thumb, for adjustable type, radian can adjust yourself, wear easy and comfortable.

Wrist Splint



It holds the wrist firmly and comfortably in a neutral position to promote healing and minimize pain. The three independent hook-and-loop fasteners permit easy, one-handed adjustment and closure. Preshaped metal stays hold wrist in a neutral position.

Ankle Splint



Designed to promote a natural step and prevent foot drop. Contact buckles and Velcro closures make it easy to adjust as needed. Convenient design can be worn on the right or left foot. It also can wear shoes or socks. Soft feel smooth against your skin, comfortable to wear and one size fits most people.

Cold and Hot Compression Therapy



 Cold Compress
  Heat Compress
  Compression
  Cold Compression
  Heat Compression



Techcare 3-in-1 compression therapy device offers heating therapy, cold therapy, and compression therapy combined, to help accelerate muscle recovery for sport athletes anywhere they want.

Hot / Cold Pack



Soft ice packs are ideal for bruises, muscle pain and sprain or headaches. Cold therapy helps relieve pain. Hot compress therapy works on promote blood circulation as to reduce ache. Superior Leak-resistant large lid allows you to easily fill the ice cube or crushed ice inside.

Sanctband Product



Sanctband is a trusted brand since 2008, that transform your experience seamlessly from Physiotherapy, Fitness to Sports Enhancement. Sanctuary Health was founded in 2002 and is known as the top-notch provider of latex and elastomeric products.

Exercise Band



- | | |
|---|---|
|  PEACH
Extra Soft |  BLUEBERRY
Firm |
|  ORANGE
Soft |  PLUM
Extra Firm |
|  LIME GREEN
Medium |  GRAY
Super Strong |

Resistive Exercise Tubing



100ft Dispenser

Super Loop Band



Mini Loop Band



NEW LOOK
SAME PERFORMANCE

Sanctband Product

Hand Exerciser



Inflatable Balance Cushion



Stability Ball



Compreffloss flossband



Anti Burst Gymball



Orange = 55 cm
Lime Green = 65 cm
Blueberry = 75 cm



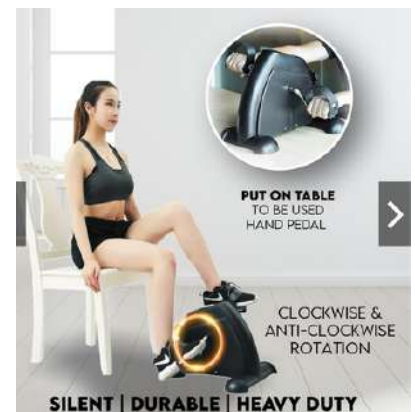
Sanctband Anti Burst Exercise Ball is developed for professional use. Available in 3 sizes, It has been tested for its anti burst properties at static weight up to 120kg. Widely used in exercise and rehabilitation for various conditions. It is also developed according to German safety standards.

Hand And Foot Pedal Exercise Bike

CB-30




CB-50





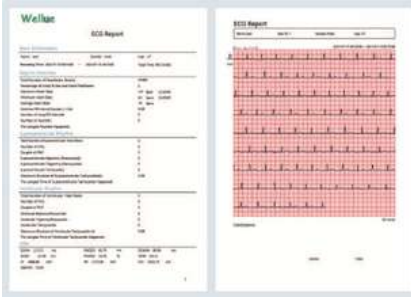
Foot and Arm Cycling Bicycle come with adjustable resistance. The LCD display includes exercise time, revolution count, revolutions per minute(RPM), calories burned and resetting button and easily to arrange your exercise information data.


12-Lead Holter Recorder

CE FDA NMPA










Compact Design



Wearable




24-Hour Recording




AI analysis



The holter recorder help reduce workload on graph reading, as it come with fast diagnose report by artificial intelligent. AI-ECG platform is an artificial intelligent ECG analysis system, which is generated and developed by Lepu Medical. It has been approved by FDA, CE and NMPA.


Wireless ECG recorder




CE FDA NMPA









Long-term Recording



AI analysis



The wireless ECG recorder can up to 24 hours. It provide professional medical ECG report with free AI analysis and diagnosis for clinical use. It has a simple operation with one touch with two wearing modes either with chest strap or electrodes and data can saved as PDF report and emailed to doctor.

BIOMETRICS DATALITE - Wireless EMG Sensors



The DataLITE wireless EMG sensor is small, lightweight and uses progressive frequency hopping, error detection and data recovery algorithms, allowing muscle activity readings to be smooth and robust even in a typical work environment with a range of up to 30 meters from its receiver.

Others Wireless Physiological Sensors



Dynamometer (G200)

The Biometrics Dynamometer utilises precision load cell technology to increase the sensitivity and accuracy of measurement of even very low grip strength forces. By using the industry standard design, researchers can compare with standardized normative data.



MyoMeter (M550)

The MyoMeter allows the user to quantify the force applied during manual muscle testing - the evaluation of the function and strength of individual muscles and muscle groups based on effective performance of a movement in relation to the forces of gravity and manual resistance.



Pinchmeter (P200)

The unique design of the Biometrics electronic Pinchmeter has a low profile that enables the researcher to quantify pinch strength at closer to end range than any other device. Highly sensitive to accurately measure pinch strength across a wide variety of subjects.



ForcePlates (FP3, FP4)

ForcePlates are focused to the needs of the researcher providing high precision, versatility and ease of use. Consisting of a sandwich of 2 uniform precision metal plates, with 4 Load Cells mounted between them, the vertical component of the total reaction force is measured independent of where it is applied over the surface of the plates.



Load Cells (In-Line, S-Beam)

High precision In-Line range of Load Cells are used for tensile applications and may be used in any attitude.

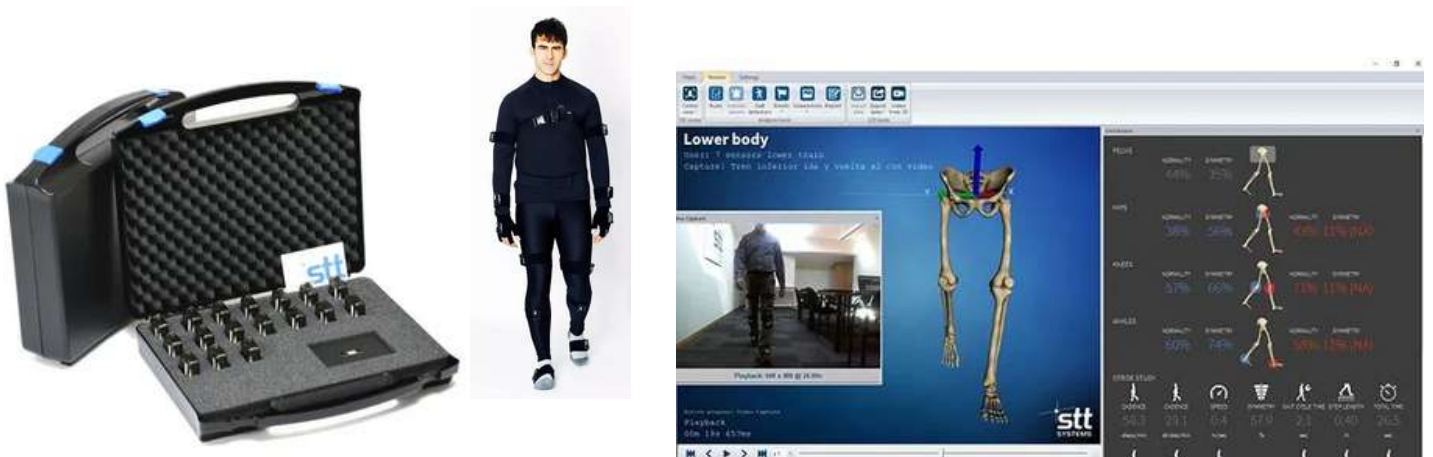
S-Beam range of Load Cells are designed for compression applications and may be used in-line or end mounted.

OptiTrack - Motion Capture Camera



OptiTrack systems offer the world's leading blend of measurement accuracy and simple, easy-to-use workflows which provide researchers and biomechanists with ideal 3D tracking data for their studies.

iSen - Wearable Motion Analysis



iSen Inertial Motion Capture iSen offers an entire toolset for biomechanical analysis, biofeedback and reporting. It is well suit to the needs of those who need a quick analysis on a specific joint or even on the entire body, but do not wish to be bound to a certain location.

RSscan - Foot Pressure Scan



RSscan International provides professional solutions for accurate dynamic pressure measurements for biomechanical research with detailed force distribution of subject's foot.

BERTEC - FORCE PLATFORM



The Center of Pressure Display

Bertec force plates are designed for gait, balance, and performance analyses. The patented strain gauge technology, innovative transducer designs, and quality manufacturing help you capture the highly accurate data needed for your research.

Trusted by Research and Health Professionals



News Coverage



The tech that cares

Malaysia's own Tony Stark is revolutionising stroke rehabilitation

BY REHANSRIKARAN

Do you know that 52,000 people in Malaysia are at risk of stroke every year? According to global statistics, one in six people suffer from a stroke on a daily basis. And although the support for stroke patients is growing, it is still not enough.

The support is needed to change the lives of those who have suffered from stroke. Khor Kang Xiang, Chief Executive Officer of TechCare Innovation, has been on the front lines of this mission. He is currently one of the top executives in Malaysia during the competition to design rehabilitation devices that assist stroke patients in their daily lives.

It all started in 2012, in the University Teknologi Malaysia (UTM), where he was a research fellow in the Robotics and UTM is currently one of the top executives that represent Malaysia during the competition.

The idea for TechCare can be traced back to the day Khor Kang Xiang was at the National Stroke Association of Malaysia (NSAM) in the US. As a student, he was there to see the latest in stroke rehabilitation technology. He saw how the patients were using the technology and how they were struggling with it.

Describing the day as a "wake up call", he started to think, "What if the Robotics Dept. was involved instead of the players from other countries? Because we were winning multiple awards - it shows Malaysia is able to compete. It doesn't mean just competing in Silicon Valley or elsewhere. It means thinking that we can do it ourselves."



Khor Kang Xiang standing next to a robotic device.

Khor Kang Xiang standing next to a robotic device.

During my internship, I couldn't see myself doing the same thing every day. My lecturer mentor told me that if I'm in one of the top universities and if we don't do this, who else would do this for the poor? The answer was, it would take me 10 years to do it. I was not at all into it. I was not at all into it. I was not at all into it.

Meet CR-2 Handix

TechCare managed to introduce a series of robotic systems called the Compact Rehabilitation Robot (CR-2) in 2014. Their core product, the CR-2 Handix, can be used to assist stroke patients in a variety of movements.

The main objective of this device is to improve or maintain the function of wrist and forearm. The robot can provide different training exercises to train for the movement of the hand and forearm.

Meet FIBOD

FIBOD is a robotic system that is designed to assist stroke patients in their daily lives. It is a robotic system that is designed to assist stroke patients in their daily lives.

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The Petri Dish

WHERE SCIENCE HITS THE HEADLINES

HOME ABOUT US EDITORIAL COLUMNIST SCOPE CAMPUS CORRODOR SUBSCRIBE ADVERTISE WITH US

Techcare Innovation Empowering Stroke Recovery with 14.0 Robotic Technology

BY DR MAHALECHUMY ARJUNAN & SAARANI VENKATESH

STROKE is the leading cause of disability worldwide with 14.5 million stroke cases every year (WHO). A STROKE causes damage to our brain cells and risks us of mobility that we take for granted. Denying our fingers a sufficient but not for a stroke patient who requires so much determination and motor coordination.

DR KHOR KANG XIANG

Kenya Regional Executive Director, TechCare Innovation (Asia - India)

南洋商报

报导：14.0 机器人技术 赋能卒中患者进行精准康复

【星洲讯】以创新方式，赋能卒中患者，研发出协助中风患者进行精准康复的14.0机器人系统，是马来西亚自主研发的机器人技术。

报导：星洲于2020年05月19日 08:00:00，星期五 14:00，报导：刘国威

中风康复机器人 为病患伸出关爱之手

星洲一个关于中风患者，想要伸出关爱之手，为病患伸出关爱之手。

【星洲讯】中风是一种全球性的健康问题，每年有数百万人死于中风。中风患者往往面临身体残疾、生活不能自理等问题。为了帮助中风患者进行精准康复，TechCare Innovation 研发出了14.0机器人系统。

14.0机器人系统是一种创新的康复设备，能够帮助中风患者进行精准康复。它能够模拟人类的运动模式，帮助患者进行精细的动作训练。通过使用该设备，患者可以更快地恢复运动功能，提高生活质量。

TechCare Innovation 是一家专注于研发和创新的公司，致力于为全球用户提供高质量的科技产品和服务。14.0机器人系统是该公司的一项重要成果，也是公司在康复机器人领域的重要突破。

可以帮助他们

FOR INTERNAL PREVIEW ONLY

Pesakit jalani terapi mudah, seronok

Kajian dijalankan tiga penuntut jurusan Kejuruteraan Elektrik



Contact Us

Email : info@techcareinnovation.com

Tel : +60183578168