



TODAY

ISSUE 2022 PERMIT NO: PP9901/02/2013(031576)



PRODUCT WATCH

Small in Size, Huge in Productivity - Tennant T390 & T581

PRODUCT HIGHLIGHT

Working Smarter – Automation Solutions

A MARVEL OF A WORKHORSE

8FBE (1 to 2 Ton) Series **Electric Powered Forklifts**

Compact, innovative and adaptable, Toyota's 8FBE Series of electric powered forklifts possesses features that make this truck a natural choice when work needs to be done. You'll feel safer, risk less accidents happening, and save more when the 8FBE is on the job. Here's why:

FEEL SAFER

High Stability

Be assured of exceptional stability with Toyota's System of Active Stability. Even when the truck travels over uneven ground, the risk of it toppling over is automatically reduced, thanks to the novel features of this system. The 8FBE's double rear tyres also ensure extra stability during operations.



Ensures that the angle of the steering wheel corresponds to the angle of the rear wheels **Active Steering Synchronizer**

Provides excellent stability in load handling **Automatic Fork-leveling Control**



Stable in travelling and turning

Automatic Turn-speed Control Automatic Travel-speed Control

Helping to prevent load spills

Active Mast Front-tilt Angle Control

Less Noise, Less Operator Fatigue

Uneven ground is a bane to forklift operators. It means more vibration, more noise, and a higher risk of the load being dislodged or falling off the forks when the truck moves, not to mention higher operator fatigue when he has to deal with all these problems over long hours. The new Fork Vibration Damper Option makes these worries a thing of the past. Two accumulators in the hydraulic circuit of the lift cylinder absorb a higher level of vibrations over a wide range of load weight, which results in a smoother, quieter and safer ride for both operator and load.

Easy to See

The front and rear combination LED lights not only make the truck easy to spot and avoid when it is operating in dim conditions, they also help to illuminate the operator's working area. He can clearly see where he is heading and what obstructions may be in the way.

LESS ACCIDENTS

Avoids Danger

With the amazing SEnS+ system installed, it's almost like having eyes at the back of your head. First of all, exclusive dual cameras distinguish pedestrians from other obstacles located within the detection range. Then, a warning buzzer sounds and warning lamps alert the operator to the presence of such obstructions.

At the same time, the system automatically controls the travelling speed and steering angle of the forklift. The buzzer and lamps are also triggered if the truck detects an obstacle behind it when it is reversing.





Operator Assist System with Pedestrian and SEnSt



Stereo camera, exclusively designed for forklifts, identifies pedestrians from other obstacles. SEnS+ also controls travelling speed and start

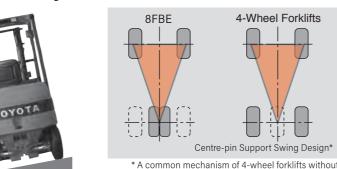


Start Control (Pre-notification / Start Limitation)

Depressing the accelerator pedal activates start limitation feature if obstacle is detected when reversing vehicle.

The Same Lateral Stability as 4-Wheel Forklifts





No Accidental Sliding

Don't worry about the forklift accidentally sliding backwards when it has Enjoy peace of mind because the truck won't to negotiate a slope because the Slope Sensing feature will instantly kick move just for anyone. The Smart Entry System 🕪 in. The auto power mode selection feature automatically switches from prevents it from being started, unless it's by Standard mode to High Power mode to adjust to the change in gradient authorised personnel only. and maintain the truck's smooth travelling performance.

Only Works for Authorised Operator

System of Active Stability

SAVE MORE



No Wastage of Power

The Key-off Light-off feature helps to conserve electric power. When the key is in the Off position, the light automatically switches off too.



Downtime Minimised

Fast and easy battery exchange options guarantee minimal downtime and longer operating hours. Just lift the battery out from the side with a forklift or even better, slide it out. Both options are available.



Performs Indoors & Outdoors

The 8FBE Series has high water resistance qualities, equivalent to IPX4 standards. This means that it will also operate just as well in outdoor conditions and work output won't be affected by rainy weather.

Ask us what the other features of the 8FBE are that make this Series such a popular one when you need a marvel of a workhorse. Email us at umwi-infodes@umw.com.my or visit our website www.umw-industries.com.my for more information or for a demo of the 8FBE.

FDITION 2022 UMW INDUSTRIES TODAY FDITION 2022 LIMW INDUSTRIES TODAY

SMALL IN SIZE, HUGE IN PRODUCTIVITY Tennant T390 & T581

Floor scrubber machines are the ideal choices for picking up dirt and dust
Easily Clean Congested Areas in work spaces that involve vehicular and/or pedestrian traffic. But how do you choose what type of floor scrubber is best fitted to the needs of your facility? That depends on a few considerations:

- · Size of facility and usage
- High or low-to-medium traffic area
- Specific challenges or areas that would make cleaning more difficult

In facilities such as warehouses, logistics and distribution centres, dust and With small clearing paths (T390 – 24 inches, T581 dirt found on the floor not only give the facility a dull appearance, they are also likely to damage floor surfaces when moving vehicles and pedestrian these highly manoeuvrable machines. workers grind these dry particulates into the ground. This challenge becomes heightened in 3PL (third-party logistics) facilities which involve Visitors Appreciate Cleanliness outsourced storing or shipping of items, and that can encompass entire The superior level of cleanliness that the T390 supply chains. The sheer size of these facilities and the volume of loads and T581 produce ensures that work spaces are handled call for effective cleaning solutions that do not disrupt the workflow not only clean, they also look clean. That enhances and can work around the often intense activity that goes on in 3PL facilities.

SAME CHALLENGE, TWO SOLUTIONS

Tennant offers two new highly productive, competitively priced Only one operator is needed for either machine. micro-scrubbers to cater to light industry applications: a walk-behind scrubber (T390) and a rider scrubber (T581).

Despite their small size, both are big on cleaning, and compactness is one of the big features of both machines. Their small size allows them to easily navigate congested areas to clean areas which bigger machines would find challenging.

No Trouble Manoeuvring in Small Places

- 20 inches), narrow aisles are no problem to

the image of your facility and it assures them that workplace health and safety are prioritised.

Reduced Costs

The ECO mode also conserves power, and maintenance is simple due to the presence of

yellow touchpoints on both machines. EDITION 2022 UMW INDUSTRIES TODAY

T390 WALK-BEHIND SCRUBBER

The self-propelled T390 is ideal for cleaning medium-sized spaces. Two rotating disks quickly and efficiently pick up dirt along its cleaning path.

- Less Breakdowns. Easily conduct daily maintenance with easy-to-identify yellow touchpoints.
- High Productivity. The dual-disk cleaning path and the manoeuvrability of a mid-size scrubber ensure effectiveness.
- Save Money. T390 is durably constructed with scrub deck made of tough steel material and roller guide wheels to protect your facility.
- Recommended for hospitals, schools, grocery stores and public institutions.

Inside the T390

- 1. Intuitive control panel with an indicator light when solution tank level is low.
- 2. Easy-to-inspect in-line solution filter.
- 3. Excellent productivity from large solution tank paired with wide cleaning path.
- 4. Consistent water pickup with durable "V" shaped squeegee design and standard Linatex® squeegee blades.
- 5. Simple no-tools brush and squeegee blade replacement.



T581 MICRO-RIDER SCRUBBER

Larger areas in various facilities can very quickly be cleaned with the T581. It has a quiet motor and intuitive controls for anytime cleaning.

- Easy to Operate. Push just one button to start cleaning operations.
- Recommended for retail stores, hospitals and schools.
- Clean Longer. Run-times are increased by nearly 20% on ECO mode which decreases battery consumption during operation.

Inside the T581

- 1. Easily change water flow rate and other cleaning functions from intuitive control panel.
- 2. Multi-stage vacuum motor for strong water pick-up.
- 3. Quick, mess-free tank draining with large, pinch-style recovery tank drain hose.
- 4. Large solution tank with level gauge and drain hose.
- 5. Consistent water pick-up with durable "V" shaped squeegee design and standard Linatex® squeegee blades.
- 6. Simple no-tools, no-touch brush change system.



PROVIDING TOTAL SOLUTIONS ACROSS INDUSTRIES

UMW participated in this year's Metaltech & Automex Exhibition which was held at MITEC (Malaysia International Trade Exhibition Centre) in Kuala Lumpur from 22nd to 25th August, 2022. The event combined a physical exhibition with a virtual/online component.

At the Exhibition, we showcased our total solutions in material handling, with the focus on automation solutions, the future of the material handling industry.

Our sales and marketing team was on hand to illustrate just how easily productivity can be increased, especially in warehousing, simply by using the right equipment while reducing the need for human resources.

Interactive displays at our booth gave visitors a chance to find out for themselves the many advantages of using automation in their operations. We also held live demonstrations of our automation solutions to show their flexibility and adaptability. In addition, we shared new insights and information via an industry talk on the latest technology used in industrial automation.







Our latest products that highlighted automation for warehousing and production were featured:

- MHE Autopilot system, which is an installed intelligent software for driverless warehouse truck operations;
- Automated Guided Vehicle (AGV) which are guided Key Carts that automatically carry, sort and tow loads along a programmed route;
- Collaborative Robots (Cobots), flexible automated robotic arms that work around the clock.





In the next two pages, read more about the three products featured at the Exhibition. Alternatively, you can email us at umwi-infodes@umw.com.my or visit our website www.umw-industries.com.my and let us demonstrate to you what benefits you'll gain by using automation in your processes.

EDITION 2022 UMW INDUSTRIES TODAY

PRODUCT HIGHTLIGHT

WORKING SMARTER

If you missed out on the MetalTech Exhibition, don't fret. Here's a quick take on three of our popular offerings which were featured at that event to



COLLABORATIVE ROBOTS (COBOTS)

sizes.

such as automotive manufacturing, cobots are productivity at the facility. a boon. They reduce assembly time, increase production speed, improve quality, reduce the THE UR COBOT IN A NUTSHELL need for human workers, and can just as smoothly • Fast and easy to implement the plug-and-play kit also be applied in quality inspection, dispensing • No complex programming or configuration involved and finishing. The UR e-Series robot arms can be depended on to consistently and repeatedly • Complements human workers' tasks handle boring, mind-numbing tasks. The Cobots • Occupies little space will also accomplish these tasks, such as screw- • Easily portable driving applications, with high precision, at a • Handles up to 16kg repeatability rate of down to ±0.03 mm (30 • Works 24 hours microns).

These lightweight e-Series collaborative robots improved to rule out repeated strain and injuries to workers. When the (Cobots) from Universal Robots (UR) make for health of your employee is endangered, employee retention rate drops, simple, effective and flexible automation for labour costs increase, and production stalls or becomes inefficient. Avoid almost any application and for companies of all all these setbacks by installing versatile UR Cobots. Its collaborative safety features ensure safe operation and eliminate conventional robotic technology which requires guarding. With these Cobots on palletising To labour-intensive manufacturing industries tasks, your company enjoys faster cycle times, quick ROI and improved

- (just move robot arm to desired position points)

When hazardous and repetitive tasks are handled by Cobots, workers are Even in non-labour intensive applications, freed to focus on higher-value tasks, such as on thinking, improving manual operations (such as palletising) can be processes, solving problems, and planning for the future.

AUTOMATED GUIDED VEHICLES (AGV)

The Toyota AGV Key Cart system is currently the preferred transportation mode for delivery of parts in a lot of industries.

In the automotive industry especially, both large and tiny components need to be safely and efficiently transported from place to place and assembled within the same premises, such as from the parts store to the production line, and back again for more rounds. The AGV (Automated Guided Vehicle) handles this delivery task with ease and saves time, without the need for even a single worker to manually push any sort of trolley back and forth. The use of such automation ensures smooth process flow, reduces employee headcount, and also solves the problem of empty boxes and trolleys littering the production line since the AGVs will send all of them back to the store.

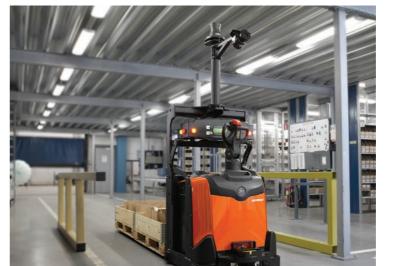
5 EASY REASONS FOR CHOOSING AGV

- 1 Easy to set up
- 2 Easy to change the route
- 3 Easy to program (just uses Excel, no complicated coding)
- 4 Easy to train workers to program the system
- **5** Easy to customise for various applications (just add on trolleys, pallets or carts)

AUTOPILOT WAREHOUSE TRUCKS

in the driver's seat.

It's more than possible. All it takes is to install navigation and advanced safety system that its best.





One last compelling reason: we have rental packages that give you financial flexibility. You don't need to pay for huge upfront costs or look after Key Cart maintenance, but can still reap ROI benefits from using the AGVs. Ask us about this.

Imagine that your warehouse trucks can minimises transport distance and avoids clustering. Simply set the automatically carry out huge material handling instructions (how high to lift the goods, what path to take, etc) for tasks on their own, with not even a single operator repetitive tasks such as pallet transport, block stacking, mixed pallet handling, high level storage, towing and handovers. The trucks will carry out the tasks unaided by human hands. The installed highly accurate navigation and obstacle detection systems ensure prevention of damage Toyota's intelligent order and fleet software into to loads and safe working environments for people and for the trucks your warehouse trucks. It's a fully integrated themselves. A truck with the Autopilot software is driverless operation at

What You Gain

- Flow of goods optimised
- · Efficiency in warehousing and logistics increased
- Damage to goods and infrastructure prevented
- Personnel freed for more complex duties
- · Costs saved due to optimised workflow efficiency

Email us at umwi-infodesk@umw.com.my or visit our website umw-industries.com.my for more information on how all of the above can boost the efficiency of your operations.

EDITION 2022 UMW INDUSTRIES TODAY

TOWARDS A SUSTAINABLE WORLD

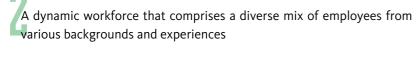
We at UMW believe that excellence in all we do Upon this solid base, we can confidently further build our products and must be the foundation of our organisation. our capabilities; add value to our stakeholders and to society; be financially strong; and remain sustainable in a constantly changing world.

A HOLISTIC APPROACH

Our holistic approach to sustainability within and without the organisation hinges on four pillars:

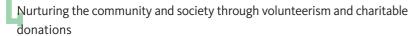


An innovative and high-performance culture that builds trust in all our deliverables and abides by the highest occupational health and safety standards





Environmental stewardship of resources across all our core businesses around the world to minimise our carbon footprint





Just as our products are built to be durable and to last, so too are our contributions to environment sustainability efforts. Beginning with ensuring that all our commercial and manufacturing activities are managed according to the highest environmental standards, we have striven to continually



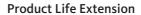
The environment-friendly features in our machines centre on the use of fewer resources to reduce our carbon footprint.

Renewable Energy

Our Toyota and BT electric-powered forklifts and reach trucks use batteries that last for hours of operation before they are required to be recharged. This avoids the use of fossil fuels which have a higher carbon footprint.



The time until this function activates can be adjusted in one-minute increments from 2 minutes to 60 minutes.



Our ex-rental equipment is refurbished to extend the useful life of our trucks at high standards of operability and safety. This is an environmentally friendly solution since it avoids metal production for new trucks and lowers our carbon footprint. The refurbishment of our equipment also prevents additional emissions from logistics operations which account for 15% of greenhouse gases, and that reduces our impact on the environment.



Reduced Energy Consumption

With efficient features installed in our Toyota and BT battery-powered trucks (such as the regenerative system, auto power-off function, and key-off light-off function), less energy is consumed. Our trucks have smaller turning circles which also require less energy to perform.



Less Wastage of Resources

Installed in our Tennant scrubbers are two groundbreaking patented technologies: ec-H2O™ technology and ec-H2O NanoClean™, which electrically converts water into an innovative cleaning solution. Enjoy the benefits of an effectively cleaned facility, money saved, and reduced impact on the environment compared to the use of conventional floor cleaning chemicals.

Automation, such as using our AGVs and Cobots, competently and accurately takes care of repeated tasks and eliminates human error. It translates to more efficient use of resources and lesser need for staff.

JOIN US

Email us at umwi-infodesk@umw.com.my or visit our website umw-industries.com.my to find out how you can join hands with us to make Earth a better, greener place.





EXPECT SOLID PERFORMANCE

Tyres may all look the same, but they all have different standards of quality and safety. Knowing the make, tread pattern, speed rating and loading of a tyre will help you to choose the right tyre for your truck, thereby reducing downtime and increasing performance.

Premium Compounds

Tokai Rhino solid tyres can handle 10 to 16 hours of continuous use, spanning two operator shifts, and are ideal for medium and high-density operations. They also offer efficiency, comfort, better heat dissipation, and up to 8.5% longer tyre life, thanks to the three layers of various rubber compounds in each tyre.

Made of premium grade rubber, the tread compound has a 22% deeper tread as well as wear, tear and heat resistant properties, providing good traction and easy handling of rougher surfaces. The second layer, the cushion compound, has 100% natural rubber that contributes to low heat generation and a comfortable drive. Lastly, for stability during use, the high tensile and rigid base formula of the third compound is embedded with bead wire to reinforce the fit and grip of the tyre on the rim.

That's why you can expect solid performance and safety from a Tokai Rhino tyre. Email us at umwi-infodesk@umw.com.my or visit our website umw-industries.com.my to know more about the range of Tokai Rhino tyres available and what's good for your truck.







We appreciate your feedback. Write or call:

The Editor