Man-down VNA truck suitable for pallet handling in medium-intensity operations. Turret head forks or high speed shuttle fork versions
1.25 – 1.5 tonnes load capacities
Lift height up to 11.3 m

Man-up combi truck performing best in medium to high-intensity pallet handling or order picking applications
1.0 – 1.35 tonnes load capacities
Lift height up to 15 m
BT Vector A-series
Man-up VNA truck with articulated chassis

Trucks with articulated chassis providing high-level order picking and full-pallet handling and the space-saving benefits of advanced VNA operation. Turret head forks or high speed shuttle fork versions

1.25 – 1.5 tonnes load capacities
Lift height up to 15.7 m
Navigation solutions

The BT Vector R-series is available with Toyota’s navigation systems using RFID technology. These include:

• Positioning, where the truck travels at maximum optimised speed to the required storage location, for the driver to simply pick or retrieve the load. Positioning function can also be integrated in a warehouse management system

• Zoning functionality can take care of travel within the aisle, identifying for example, any overhead hazards as well as controlling the truck at end-of-aisle

Uniquely, Toyota’s navigation solutions are designed to be integrated with most existing third-party warehouse management systems and can be retrofitted to existing Toyota VNA trucks (BT Vector R/A-series models).
For man-down work, the BT Vector R-series is based on the class-leading BT Reflex reach truck. It is available with turret-head fork design or shuttle forks (VRE125SF), which require less aisle-width and allow high-speed pallet handling.

**Compact design**

The truck has a very small footprint which means less space is needed for transfer aisle allowing better use of storage space.

**High performance with TLC**

Travel speeds up to 14 km/h and high-speed lifting/lowering ensure maximum productivity. The patented and unique Transitional Lift Control (TLC) system ensures completely smooth, shock-free lifting and lowering, even at maximum speed.

**Totalview Concept**

The design of the overhead guard is also patented and unique to BT Vector R-series trucks. It provides a clear upward view to the forks when working at height.

**TPS-based reliability**

Like all Toyota trucks, BT Vector trucks are built according to the Toyota Production System, assuring the highest levels of quality, durability and reliability.

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### BT Vector R-series

**Man-down VNA truck**

**Safety**

- Adjustable fork width
- Automatic parking brake
- BT Optipace System
- Clear-view mast
- Clear-view overhead guard
- Electronic braking system
- Electronic regenerative brakes (motor)
- Electronic speed control
- Electronic support arm brakes
- Enclosed cab
- Fork spreader
- Shuttle forks
- Warning beacon
- Wire/rail guidance
- Working lights

### Controls and instruments

- 360° progressive steering
- Access Control (PIN codes)
- Adjustable BT Control console
- Automatic deceleration
- Auto-rotation of forks
- Camera/monitor system
- Drive motor temperature warning
- E-bar
- Electronic controller temperature warning
- Electronic fingertip controls
- Electronic height indicator
- Emergency cut-off
- Height pre-selector
- Hour meter
- Load information display
- Joystick electronic controls
- On-board data terminal mount
- Parking brake
- Pedals as in a car
- Programmable gate security
- Split control panel
- Steering direction indicator
- Weight indicator

### Operator features

- Adjustable seat
- Adjustable seat with safety belt
- Adjustable steering wheel
- Driver detection system
- Driver-adapted programmable performance
- Heated seat
- Low step-in
- Storage compartments
- Writing table

### Maintenance & performance features

- Easy access for maintenance
- Fault diagnosis facility
- Historic fault log

### Battery management features

- Battery change facility
- Battery discharge prevention system
- Battery status indicator
- Heavy-duty battery compartments
- Regenerative lowering

### Special applications

- Coldstore version
- EEx version (ATEX)

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- Load camera option
- Aisle camera option
- Auto-rotation option
- Easy servicing

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**Load capacity:** 1.25, 1.5 t

@ 600 mm load centre

Maximum lift height: 11.0 m (11.3 m for VRE125SF)

Maximum battery capacity: 930 Ah
BT Vector C-series
Man-up VNA truck

BT Vector C-series models bring full VNA functionality in an extremely compact footprint. A choice of chassis and cab widths means it is suited to most existing VNA operations, offering class-leading performance and energy efficiency.

Easy delivery and installation
Most VNA trucks require on-site assembly with requirements for heavy lifting to build the mast assembly. The BT Vector C-series has a swing-down mast design, which means it can be shipped on a standard road vehicle and towed into position, with mast repositioning and final commissioning taking less than half a day.

BT Optipace
BT Optipace controls the speed of the truck when operating in narrow aisles, providing the highest safe drive speed taking into account the load weight and operating height.

Totalview Concept
The BT Vector C-series provides a clear view for driving and load handling based on Toyota’s Totalview concept.

TPS-based reliability
Like all Toyota trucks, BT Vector trucks are built according to the Toyota Production System, assuring the highest levels of quality, durability and reliability.

Load capacity: 1.0, 1.2, 1.35 t
@ 600 mm load centre
Maximum lift height: 15 m
Maximum battery capacity: 930 Ah

- BT Totalview allows optimum visibility
- Split control panel lets the operator reach the pallet easily for order picking
- LED working lights are powerful and efficient
- Battery access is convenient for charging
Navigation solutions

The BT Vector A-series is available with Toyota’s navigation systems using RFID technology. These include:

- Positioning, where the truck travels at maximum optimised speed to the required storage location, for the driver to simply pick or retrieve the load. Positioning function can also be integrated in a warehouse management system.

- Zoning functionality can take care of travel within the aisle identifying, for example, any overhead hazards as well as controlling the truck at end-of-aisle.

Uniquely, Toyota’s navigation solutions are designed to be integrated with most existing third-party warehouse management systems and can be retrofitted to existing Toyota VNA trucks (BT Vector R/A-series models).
The BT Vector A-series is a Man-up VNA truck with an articulated chassis. This unique space-saving design enables it to drive between aisles using a transfer aisle up to one metre narrower than a non-articulated truck. This accommodate typically an extra four pallet positions on each level within an aisle, and with lift heights to well over 14 metres, it can result in up to 60 extra pallet positions per aisle. This gives substantial cost savings in terms of space, but not at the cost of productivity – aisle transfer typically takes less than 10 seconds.

**Advanced Lifting System**

The energy required to lift the cab and load is significantly reduced by Toyota’s Advanced Lifting System. It is a fully integrated combination of hydraulic and gas-pressure lifting, using precise electronic control for seamless and smooth operation. Inert nitrogen is compressed in a sealed system as the cab is lowered. The stored energy is then used to aid the next lifting movement. As a result, the lift motor is working to lift little more than the weight of the load itself, saving energy. Two-shift operation is possible on a single charge.

**BT Optipace**

BT Optipace controls the speed of the truck when operating in narrow aisles, providing the highest safe drive speed taking into account the load weight and operating height.

**TPS-based reliability**

Like all Toyota trucks, BT Vector trucks are built according to the Toyota Production System, assuring the highest levels of quality, durability and reliability.

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**Load capacity:** 1.25, 1.5 t  
@ 600 mm load centre  
**Maximum lift height:** 15.7 m  
**Maximum battery capacity:** 1240 Ah

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- The A-series’ BT Advanced Lifting System significantly reduces the amount of battery energy required to lift the cab and load, allowing two-shift operation on a single charge.
- Staggered front wheel arrangement increases stability while reducing floor loading.
- Integrated control panel.
- Shuttle-fork version offers maximal productivity.
Toyota Material Handling has a clear approach to create effective and profitable relationships:

- Your local sales contact is your trusted business advisor for all handling and logistics operations, to support your activities at both the planning and operational phases
- Our challenge is to analyse and understand your requirements and find efficient handling solutions – in short to fulfil our commitment to ‘Kaizen’ – which means continuous improvement
- A complete range of Toyota products – counterbalance forklifts, hand pallet trucks, powered warehouse trucks, tow tractors and automated solutions

Financial options

A choice of financial options to suit your exact needs, including finance lease and fully-inclusive long term rental programmes

Quality approved used trucks are also available giving Toyota build-quality at a very competitive cost level

Forward planning with short-term hire options to handle peak periods of activity

The Toyota Production System has a worldwide reputation for manufacturing quality products:

- Having identified the right equipment for your operations, you can be confident that it will be manufactured to the highest quality standards – that means reliability
- TPS is built around a process of continuous improvement (Kaizen) which is achieved by following a clear set of values
- All trucks are produced to ISO 14001 quality standards, ensuring minimum environmental impact
- Furthermore, one of the driving values within TPS is the elimination of waste at every stage of the process
- Over 90% of trucks sold by Toyota Material Handling in Europe are built within our European factories in Sweden, France and Italy
Taking care of you and your trucks

The Toyota Service Concept (TSC) has been developed on TPS principles and is unique in the industry:

• Service means total lifetime support – maintenance, repairs, Thorough Examination, back-up with extra trucks, driver training and management information

• Real-time information is one of the core values that makes Toyota’s service concept unique. It means everyone in the process has instant on-line access to updated, integrated information – technical support, truck history, parts, truck availability and data for effective time and route planning

• TSC also means exact-fit in terms of parts and people, with structured training and accreditation processes

• Smart truck telemetry with GPRS/3G communication is also unique to Toyota, and available on almost every truck we produce. This allows better safety standards including driver management. With Toyota I_Site, complete fleet control for improved safety, efficiency and cost reduction is a reality

Toyota Service Concept – for unique, forward-thinking lifetime support

RELIABILITY
CONFIDENCE
AVAILABILITY
PRODUCTIVITY
QUALITY
SAFETY

These are the expectations of our customers, alongside cost efficiency, sustainability and respect for the environment.

We check these expectations by regularly talking to truck users in the UK through surveys, sales discussions and over 300,000 service visits every year.

We work with customers from one-off users up to the largest fleet operations.

Because our network extends across the UK we are always local.

Understanding customer needs is at the heart of our operations.

We call it CUSTOMER FIRST.

This page describes the unique processes that we follow, from working with you to plan your handling requirements, through building high quality reliable products, then delivering the best possible lifetime support.
One call takes care of all your materials handling needs

New & used trucks
0870 850 1409

National service
0870 850 1402

Short-term hire
0870 850 1403

Parts support
0870 850 1404

Operator training
0870 850 1405

Toyota Material Handling UK
E: we.deliver@uk.toyota-industries.eu