

# Toyota IC Counterbalanced Trucks

The Toyota Tonero Range



# Toyota Toner

the complete range of engine-powered counterbalanced trucks from Toyota Material Handling

## Toyota Toner

Up to 3.5 tonnes with torque converter or hydrostatic transmission



Highly productive and reliable trucks for light to heavy-duty applications  
1.5 – 3.5 tonnes load capacities  
Diesel or LPG engines  
Torque converter or hydrostatic (Toner HST) transmission

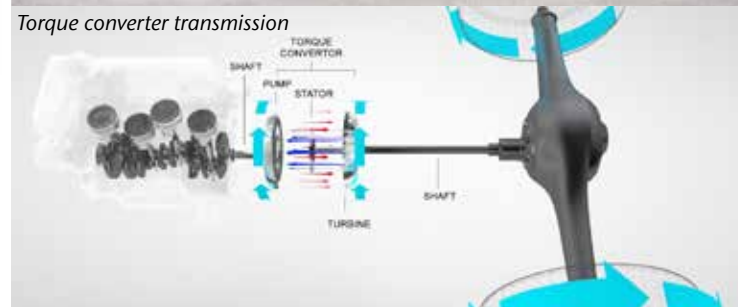
## Toyota Toner

From 3.5 up to 8.0 tonnes with torque converter transmission



Compact and durable trucks for heavy work or multi-pallet handling  
3.5 – 8.0 tonnes load capacities  
Diesel or LPG engines  
Torque converter transmission





	● standard	○ option	⚡ available as part of plus package	Safety	Durability	Productivity	Driveability	8FG/DF15	8FG/DF18	8FG/DKF20	8FG/DF20	8FG/DF25	8FG/DF30	8FG/DF35
Load handling														
Wide Visible Mast (V)								●	●	●	●	●	●	●
Full-free (twin cylinder) 2-stage mast (FW)								○	○	○	○	○	○	○
Full-free (twin cylinder) 3-stage mast (FSW)								○	○	○	○	○	○	○
Hydraulic cushioned forks						⚡		○	○	○	○	○	○	○
Hydraulic accumulator								○	○	○	○	○	○	○
Fully oil-charged lift cylinder								○	○	○	○	○	○	○
Anti-rust rollers								○	○	○	○	○	○	○
Integrated sideshift								○	○	○	○	○	○	○
Hook-on sideshift								○	○	○	○	○	○	○
Fork positioner								○	○	○	○	○	○	○
Engine														
Diesel version (8FDF)								●	●	●	●	●	●	●
LPG Exclusive (8FGF)								●	●	●	●	●	●	●
LPG Convertible System								○	○	○	○	○	○	○
Gasoline version								○	○	○	○	○	○	○
Hydrodynamic transmission								●	●	●	●	●	●	●
LPG refillable tank								○	○	○	○	○	○	○
High capacity cooling								○	○	○	○	○	○	○
Cold weather spec								○	○	○	○	○	○	○
Upswept exhaust								○	○	○	○	○	○	○
Catalytic muffler								○	○	○	○	○	○	○
3way catalytic muffler								○	○	○	○	○	○	○
Cyclone air cleaner								○	○	○	○	○	○	○
Pre-cleaner								○	○	○	○	○	○	○
DPF II								○	○	○	○	○	○	○
Spark guard net								○	○	○	○	○	○	○
Radiator screen								○	○	○	○	○	○	○
Transmission protection system								○	○	○	○	○	○	○
High capacity battery								○	○	○	○	○	○	○
12V power supply								○	○	○	○	○	○	○
Engine cut off timer								○	○	○	○	○	○	○
High speed torque converter								○	○	○	○	○	○	○
Hydraulic oil cooler								○	○	○	○	○	○	○
Lights and indicators														
Headlights								●	●	●	●	●	●	●
Rear combination lights								○	○	○	○	○	○	○
Flashing beacon								○	○	○	○	○	○	○
Lowered flashing beacon								○	○	○	○	○	○	○
Front combination lights								○	○	○	○	○	○	○
Rear working light with switch								○	○	○	○	○	○	○
Key off, headlight off system								○	○	○	○	○	○	○
Back-up buzzer								○	○	○	○	○	○	○
Body														
Full hydraulic power steering								●	●	●	●	●	●	●
Adjustable tilt steering column								○	○	○	○	○	○	○
Tilt cylinder boots								○	○	○	○	○	○	○
Foot operated parking brake								○	○	○	○	○	○	○
OK monitor								○	○	○	○	○	○	○
Combination meter including self diagnostic system								○	○	○	○	○	○	○
Digital multifunction display (Deluxe)								○	○	○	○	○	○	○
Rear-view mirror								○	○	○	○	○	○	○
Panoramic mirror								○	○	○	○	○	○	○
Front windshield and roof								○	○	○	○	○	○	○
Cab w/o doors								○	○	○	○	○	○	○
Cab with canvas doors								○	○	○	○	○	○	○
Steel cab								○	○	○	○	○	○	○
Deluxe cabin								○	○	○	○	○	○	○
Seat mounted minilevers								○	○	○	○	○	○	○
Seat mounted multifunction levers								○	○	○	○	○	○	○
Toyota ORS seat (Operator Restraint System) (vinyl)								○	○	○	○	○	○	○
Fabric ORS seat								○	○	○	○	○	○	○
Swivel seat								○	○	○	○	○	○	○
Rear assist grip with horn button								○	○	○	○	○	○	○
D2 pedal								○	○	○	○	○	○	○
Long life coolant 50%								○	○	○	○	○	○	○
Telescopic steering column								○	○	○	○	○	○	○
High overhead guard (+125 mm) + high comfort seat								○	○	○	○	○	○	○
Max speed and acceleration reduction with lifted load								○	○	○	○	○	○	○
Max drive speed setting								○	○	○	○	○	○	○
Load weight indicator								○	○	○	○	○	○	○
Safety features														
Toyota SAS (System of Active Stability)								○	○	○	○	○	○	○
Operator Presence Sensing System (OPS)								○	○	○	○	○	○	○
Tyres														
Pneumatic shaped cushion tyres								○	○	○	○	○	○	○
Special applications														
Drive in racking								○	○	○	○	○	○	○
Dusty environment spec								○	○	○	○	○	○	○

- Excellent fork-tip visibility aids safety and productivity
- Load weight indicator helps prevent unsafe overloading
- Adjustable, comfortable and safe ORS seat
- Convenient foot-operated parking brake
- Optional swivel seat for more comfortable reversing

# Toyota Tonero

## 1.5 to 3.5 tonnes engine-powered trucks with torque converter transmission

Toyota Tonero – a versatile family of IC counterbalanced forklifts suitable for all applications up to 3.5 tonnes from light to intense use, and featuring industrial engines, hydrodynamic transmission, unmatched stability and outstanding all-round visibility. Powerful, reliable and durable.

### Toyota SAS

The unique System of Active Stability (SAS) is the world's first active system for controlling forklift stability. By protecting the operator and load when driving, turning and lifting, SAS provides advanced technology increasing safety in the workplace and improving productivity. It includes: SAS Active Mast Tilt Angle Control, SAS Active Mast Tilt Speed Control, SAS Fork Levelling, SAS Active Steering Synchronizer, SAS Swing Lock Cylinder.

### Toyota industrial engines

All Toyota engines are built in-house, for quality and long-term reliability. They are specifically designed for industrial applications and allow quick acceleration and optimised fuel efficiency. A choice between diesel and LPG engines. The diesel range offers 2 engines. The 1DZ- III (Stage IIIA) with Load Sensing Power Steering as standard is perfect for low and medium intensity rack and block stacking. The 1ZS (Stage IIIB) with common rail fuel injection and Load Sensing Power Steering is ideal for medium to high intensity applications and when the use of heavier attachments is required. The 1ZS engine complies to stage IIIB regulation requirements without the need of a diesel particulate filter.

### Torque converter transmission

Torque converter models offer a smooth overall driving experience by powerful acceleration and the possibility of coasting, easy direction change, single speed transmission, and no gearshift.

### Outstanding driver experience

Excellent visibility: through the mast, the overhead guard, and all-round due to the design of the chassis and dashboard. Plus the benefit of a comfortable and spacious workspace, boosting productivity.

### TPS-based reliability

Like all Toyota trucks, Toyota Tonero trucks are built according to the Toyota Production System (TPS), assuring the highest levels of quality, durability and reliability.

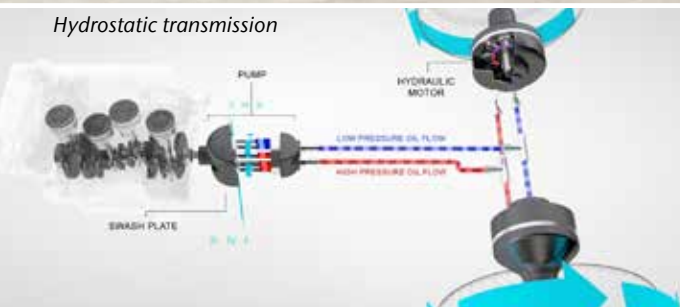
Load capacity: 1.5, 1.75, 2.0, 2.5, 3.0, 3.5 t  
@ 500 mm load centre  
Maximum lift height: 7.0 m  
Engine choice: 1DZIII (diesel – 36 kW)  
1ZS (diesel – 41 kW)  
4Y (LPG – 38/42 kW)







Hydrostatic transmission



● standard ○ option

	Safety	Durability	Productivity	Driveability	8FG/D15F	8FG/D18F	8FG/D20F	8FG/D25F	8FG/D30F	8FG/D35F
Load handling										
Wide Visible Mast (V)					●	●	●	●	●	●
Full-free (twin cylinder) 2-stage mast (FW)					○	○	○	○	○	○
Full-free (twin cylinder) 3-stage mast (FSW)					○	○	○	○	○	○
Hydraulic cushioned forks			●		○	○	○	○	○	○
Hydraulic accumulator			●		○	○	○	○	○	○
Fully oil-charged lift cylinder		●			○	○	○	○	○	○
Anti-rust rollers		●			○	○	○	○	○	○
Integrated sideshift			●		○	○	○	○	○	○
Hook-on sideshift			●		○	○	○	○	○	○
Fork positioner			●		○	○	○	○	○	○
Engine										
Diesel version (8FDF)					●	●	●	●	●	●
LPG Exclusive (8FGF)					●	●	●	●	●	●
LPG refillable tank			●		○	○	○	○	○	○
Hydrostatic transmission			●		○	○	○	○	○	○
Upswept exhaust				●	○	○	○	○	○	○
Catalytic muffler				●	○	○	○	○	○	○
3-way catalytic muffler				●	○	○	○	○	○	○
Cyclone air cleaner				●	○	○	○	○	○	○
Pre-cleaner				●	○	○	○	○	○	○
Spark guard net				●	○	○	○	○	○	○
High capacity alternator, 60A				●	○	○	○	○	○	○
High capacity battery				●	○	○	○	○	○	○
12V power supply				●	○	○	○	○	○	○
Lights and indicators										
Headlights					●	●	●	●	●	●
Rear combination lights					○	○	○	○	○	○
Flashing beacon					○	○	○	○	○	○
Lowered flashing beacon					○	○	○	○	○	○
Front combination lights					○	○	○	○	○	○
Rear working light with switch					○	○	○	○	○	○
Key off, headlight off system					○	○	○	○	○	○
Back-up buzzer					○	○	○	○	○	○
Body										
Full hydraulic power steering				●	○	○	○	○	○	○
Adjustable tilt steering column				●	○	○	○	○	○	○
Tilt cylinder boots				●	○	○	○	○	○	○
Foot operated parking brake				●	○	○	○	○	○	○
OK monitor				●	○	○	○	○	○	○
Combination meter including self diagnostic system				●	○	○	○	○	○	○
Digital multifunction display (Deluxe)				●	○	○	○	○	○	○
Rear-view mirror				●	○	○	○	○	○	○
Panoramic mirror				●	○	○	○	○	○	○
Front windshield and roof				●	○	○	○	○	○	○
Cab w/o doors				○	○	○	○	○	○	○
Cab with canvas doors				○	○	○	○	○	○	○
Steel cab				○	○	○	○	○	○	○
Deluxe cabin				○	○	○	○	○	○	○
Seat mounted minilevers				○	○	○	○	○	○	○
Seat mounted multifunction levers				○	○	○	○	○	○	○
Toyota ORS seat (Operator Restrain System) (vinyl)				○	○	○	○	○	○	○
Fabric ORS seat				○	○	○	○	○	○	○
Swivel seat				○	○	○	○	○	○	○
Rear assist grip with horn button				○	○	○	○	○	○	○
Electric wet disk parking brake				○	○	○	○	○	○	○
Long life coolant 50%				○	○	○	○	○	○	○
Double accel pedal				○	○	○	○	○	○	○
Max speed and acceleration reduction with lifted load				○	○	○	○	○	○	○
Telescopic steering column				○	○	○	○	○	○	○
High overhead guard (+125 mm) + high comfort seat				○	○	○	○	○	○	○
Safety features										
Toyota SAS (System of Active Stability)				●	●	●	●	●	●	●
Operator Presence Sensing System (OPS)				○	○	○	○	○	○	○
Tyres										
Pneumatic shaped cushion tyres				○	○	○	○	○	○	○
Pneumatic tyres				○	○	○	○	○	○	○
Special applications										
Cold environment version				○	○	○	○	○	○	○
Dusty environment spec				○	○	○	○	○	○	○

# Toyota Tonero HST

1.5 to 3.5 tonnes engine-powered trucks with hydrostatic transmission

Toyota Tonero – a versatile family of IC counterbalanced forklifts suitable for all applications up to 3.5 tonnes from light to intense use, and featuring industrial engines, hydrostatic transmission, unmatched stability and outstanding all-round visibility. Powerful, reliable and durable and available for drivers preferring automatic braking when releasing the accelerator.

## Toyota SAS

The unique System of Active Stability (SAS) is the world's first active system for controlling forklift stability. By protecting the operator and load when driving, turning and lifting, SAS provides advanced technology increasing safety in the workplace and improving productivity. It includes: SAS Active Mast Tilt Angle Control, SAS Active Mast Tilt Speed Control, SAS Fork Levelling, SAS Active Steering Synchronizer, SAS Swing Lock Cylinder.

## Toyota industrial engines

All Toyota engines are built in-house, for quality and long-term reliability. They are specifically designed for industrial applications and allow quick acceleration and optimised fuel efficiency.

## Hydrostatic transmission

To suit driver preference the hydrostatic (HST) version offers an alternative to the torque converter version by delivering powerful engine braking and acceleration with pre-set driving parameters, quick direction change, independent lift and drive functionality, an electrical parking brake and 'stop-on-ramp' functionality.

## Outstanding driver experience

Excellent visibility: through the mast, the overhead guard, and all-round due to the design of the chassis and dashboard. Plus the benefit of a comfortable and spacious workspace, boosting productivity.

## TPS-based reliability

Like all Toyota trucks, Toyota Tonero trucks are built according to the Toyota Production System (TPS), assuring the highest levels of quality, durability and reliability.



- Minilevers in the armrest are intuitive and easy to use
- Superior upward visibility aids safety and productivity
- Power mode switch allows quick performance adaptation
- Choice of pedal layouts to suit any application (double pedal layout shown)
- Easy access for maintenance maximises uptime

Load capacity: 1.5, 1.75, 2.0, 2.5, 3.0, 3.5 t  
@ 500 mm load centre  
Maximum lift height: 7.0 m  
Engine: 1DZIII (diesel – 36 kW)  
4Y (LPG – 38/42 kW)

**SAS**  
System of Active Stability





● standard ○ option

	Safety	Durability	Productivity	Driveability	8FG/D35N	8FG/D40N	8FG/D45N	8FG/D50N	8FD60N	8FD70N	8FD80N
Load handling											
Wide Visible Mast (V)	●				●	●	●	●	●	●	●
Full-free (twin cylinder) 2-stage mast (FW)	●				○	○	○	○	○	○	○
Full-free (twin cylinder) 3-stage mast (FSW)	●				○	○	○	○	○	○	○
Heavy duty mast	●				○	○					
Fully oil charged lift cylinder	●				○	○	○	○	○	○	○
Heavy duty hydraulic accumulator	●				○	○	○	○	○	○	○
Hook-on sideshift	●				○	○	○	○	○	○	○
Engine											
Diesel version (8FDN)					●	●	●	●	●	●	●
Gasoline version (8FGN)					○	○	○	○	○	○	○
LPG exclusive					○	○	○	○			
LPG convertible (Z3)					○	○	○	○			
LPG bracket (swing-down type)					○	○	○	○			
Hydrodynamic transmission				●	●	●	●	●	●	●	●
Travel speed limitation control	●				●	●	●	●	●	●	●
Overheat-detection engine-output limiter	●				●	●	●	●	●	●	●
Radiator screen	●				●	●	●	●	●	●	●
Torque converter oil cooler	●				●	●	●	●	●	●	●
High capacity cooling	●				○	○	○	○	○	○	○
Upswept exhaust	●				○	○	○	○	○	○	○
3-way catalytic converter	●				○	○	○	○	○	○	○
Cyclone air cleaner	●				○	○	○	○	○	○	○
Pre-cleaner	●				○	○	○	○	○	○	○
Plate fin radiator	●				○	○	○	○	○	○	○
LPG warning indicator	●				○	○	○	○	○	○	○
Cooling fan booster	●				○	○	○	○	○	○	○
High capacity alternator, 80A	●				○	○	○	○	○	○	○
High capacity battery	●				○	○	○	○	○	○	○
Transmission protection system	●				○	○	○	○	○	○	○
Lights and indicators											
Headlights with guard	●				●	●	●	●	●	●	●
Rear combination lights	●				○	○	○	○	○	○	○
Front combination lights	●				○	○	○	○	○	○	○
LED head lights	●				○	○	○	○	○	○	○
Rear working light	●				○	○	○	○	○	○	○
Key off, headlight off system	●				○	○	○	○	○	○	○
Back-up buzzer	●				○	○	○	○	○	○	○
Body											
Full hydraulic power steering with load sensing	●				●	●	●	●	●	●	●
Adjustable tilt steering column	●				○	○	○	○	○	○	○
OK monitor	●				○	○	○	○	○	○	○
Combination meter including self diagnostic system	●				○	○	○	○	○	○	○
Digital multifunction display (Deluxe)	●				○	○	○	○	○	○	○
Rear view mirror	●				○	○	○	○	○	○	○
Front windshield and roof	●				○	○	○	○	○	○	○
Cab w/o doors	●				○	○	○	○	○	○	○
Cab with canvas doors	●				○	○	○	○	○	○	○
Steel cab	●				○	○	○	○	○	○	○
Heater	●				○	○	○	○	○	○	○
High spec heater	●				○	○	○	○	○	○	○
Defroster	●				○	○	○	○	○	○	○
Minilevers	●				○	○	○	○	○	○	○
Multifunction levers	●				○	○	○	○	○	○	○
Toyota ORS seat (Operator Restraint System)	●				○	○	○	○	○	○	○
Fabric ORS seat	●				○	○	○	○	○	○	○
Seat with air suspension	●				○	○	○	○	○	○	○
Swivel seat	●				○	○	○	○	○	○	○
Rear assist grip	●				○	○	○	○	○	○	○
D2 pedal	●				○	○	○	○	○	○	○
Long life coolant 50%	●				○	○	○	○	○	○	○
Telescopic steering column	●				○	○	○	○	○	○	○
Low height headguard (2200 mm)	●				○	○	○	○	○	○	○
+75 mm overheadguard & Comfort seat	●				○	○	○	○	○	○	○
Safety features											
Toyota SAS (System of Active Stability)	●				●	●	●	●	●	●	●
Operator Presence Sensing System (OPS)	●				○	○	○	○	○	○	○
Tyres											
Pneumatic tyres	●				○	○	○	○	○	○	○
Pneumatic shaped cushion tyres	●				○	○	○	○	○	○	○
Special applications											
Cold weather spec	●				○	○	○	○	○	○	○

## Toyota Tonero

3.5 to 8.0 tonnes engine-powered trucks with torque converter transmission

Powerful and precise in all applications, the Toyota Tonero higher tonnage family takes productivity to a new level. Designed to move loads up to 8 tonnes with ease, they are built for intensive operation, multi-load handling or for use with heavy attachments.

### Toyota SAS

The unique System of Active Stability (SAS) is the world's first active system for controlling forklift stability. By protecting the operator and load when driving, turning and lifting, SAS provides advanced technology increasing safety in the workplace and improving productivity. It includes: SAS Active Mast Tilt Angle Control, SAS Active Mast Tilt Speed Control, SAS Fork Levelling, SAS Active Steering Synchronizer, SAS Swing Lock Cylinder.

### Toyota industrial engines

All Toyota engines are built in-house, for quality and long-term reliability. They are specifically designed for industrial applications and allow quick acceleration and optimised fuel efficiency. A choice between diesel and LPG engines. The Toyota 1KD engine with common rail fuel injection offers high acceleration, drive and lift speeds and it achieves an emission level significantly below the stage IIIB regulation requirements without the need of a diesel particulate filter. The compact LPG/gasoline Toyota 1FS engine comes with electronic fuel injection and excels at optimum truck performance and fuel efficiency.

### Durable partner

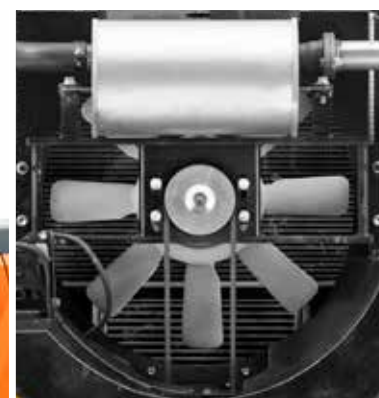
A strong steel frame and overhead guard increases protection of the driver and a robust dual stage torque convertor ensures high durability and starting force and no gearshift. Highly efficient cooling ensures a long working life for key components and keeps productivity high in tough working conditions.

### Outstanding driver experience

Excellent visibility: through the mast, the overhead guard, and all-round due to the design of the chassis and dashboard. Plus the benefit of a comfortable and spacious workspace, boosting productivity.

### TPS-based reliability

Like all Toyota trucks, Toyota Tonero trucks are built according to the Toyota Production System (TPS), assuring the highest levels of quality, durability and reliability.



- Clean, state-of-the-art Toyota 1KD common rail diesel engine
- Spacious and comfortable driver compartment with superb 360° visibility
- Eco mode option optimises fuel efficiency
- Steel cabin option offers a high comfort level in all weather conditions
- Highly effective cooling systems ensure consistent performance in all environments

Load capacity: 3.5, 4.0, 4.5, 5.0, 6.0, 7.0, 8.0 t  
@ 600 mm load centre  
Maximum lift height: 6.0 m  
Engine choice: 1KD (diesel – 55 kW)  
1FS (LPG/gasoline – 63 kW)

**SAS**  
System of Active Stability



## How we plan your operation

Toyota Material Handling has a clear approach to create effective and profitable relationships:

- Your local sales contact aims to be 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 trucks, 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 rental options to handle peak periods of activity

## How we build quality trucks

The Toyota Production System has a world-wide reputation for manufacturing quality products:

- Having identified the right equipment for your operations, you have the confidence 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

Toyota Production System –  
the strong foundation for  
quality in manufacturing

## Taking care of you and your trucks

The Toyota Service Concept has been developed on TPS principle and is unique in the industry:

- Service means total lifetime support – maintenance, repairs, 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 for 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 and, with Toyota I\_Site, complete fleet control for improved safety, efficiency and cost reduction

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 through surveys, sales discussions and over 3.5 million service visits every year.

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

Because our network extends across Europe 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.



For more information about:

- Toyota Production System (TPS)
- Toyota Service Concept (TSC)
- Finance and rental plans
- Service and parts programmes
- Smart truck technology
- Toyota I\_Site fleet management
- Environment & sustainability policies

please ask your Toyota representative, or visit  
[www.toyota-forklifts.eu](http://www.toyota-forklifts.eu)



# Toyota Material Handling in Europe

## Total coverage

The Toyota Material Handling network extends to over 30 countries in Europe with more than 4500 mobile technicians.

## Always local – with global support

Wherever you are located in Europe, we are always local, due to our extensive coverage, but with the stability and back-up of a worldwide organisation.

## Made in Europe

Over 90% of trucks we sell are built in our own European factories, in Sweden, France and Italy – all to TPS quality standards. We employ over 3000 production staff in Europe and work with over 300 European suppliers.

Approximately 15% of our European production is exported to other parts of the world.

Pictures used are for illustration purposes only. Availability and specifications are determined regionally, and are subject to change without notice. Please consult your Toyota Material Handling representative for details.