

FDX & FGX 1.6 - 1.8  
X-RANGE BROCHURE

NEXEN  
NEXEN

**NEXEN**<sup>®</sup>  
LIFT TRUCK TECHNOLOGY

## Why Nexen Builds a Better Lift Truck

Nexen is the first choice supplier for the global material handling industry. Nexen delivers a high return on investment, innovative quality solutions and dependable products through its worldwide distribution network.

Nexen uses the very latest virtual design software & techniques to deliver class leading lift trucks. The Nexen X-Range is a completely new design and is a fresh outlook delivering ground breaking performance.

Nexen only selects the highest specification components in its commitment to provide quality and reliability to its customers, and to deliver a world-leading product from its ISO9001 production facilities.

The Nexen X-Range with its superior ergonomics and comfort, represents one of the lowest cost of ownership trucks in its class, giving an excellent return on investment, ensuring maximum performance from the operator and machine at all times.

Nexen is also committed to providing unparalleled after sales support through its Dealer Network, which can offer the following services;

- Rapid and fully comprehensive spare parts program
- Standard, comprehensive or bespoke warranty programs
- Class leading onboard diagnostics to ensure optimum performance
- Worldwide Dealer Support Network

# NEXEN 18



# Product Choices

The X-Range matches the large range of applications and business requirements that our customers demand.

The Nexen X-Range FDX & FGX 1.6 and 1.8 are available in three specification levels with multiple options to ensure lowered operational costs for your business/company. From the standard configuration, each specification upgrade gives improved performance, the same excellent reliability, and Improved ease of operation.

## Standard X-Range

- Nexen's robust Powershift transmission.

## Optimal offers the above features, plus:

- Modulated control for fast direction changes
- Improved throttle response

## Optimal + offers the above features, plus:

- Anti rollback on inclines & ramps
- Oil cooled disc brakes
- Advanced inching control
- Controlled Deceleration System

	NEXEN X-RANGE	NEXEN X-RANGE OPTIMAL	NEXEN X-RANGE OPTIMAL+
<b>DESIGN INTENT</b>			
<b>INVESTMENT</b>	Most Economic Upfront Investment	<b>NOT CURRENTLY AVAILABLE</b>	<b>AVAILABLE LATE 2017</b>
<b>DRIVETRAIN CONFIGURATION</b>			
<b>ENGINE - DIESEL</b>	Yanmar 2.6L, 35kW Kubota 2.4L, 36.kW	Yanmar 2.6L, 35kW Kubota 2.4L, 36.kW	Yanmar 2.6L, 35kW Kubota 2.4L, 36.kW
<b>ENGINE - LPG</b>	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b>	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b> GM 2.4L, 50kW	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b> GM 2.4L, 50kW
<b>ENGINE - DUEL FUEL</b>	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b>	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b>	Nissan 2.0L, 33kW <b>(N/A in US)</b> Nissan 2.2L, 38kW <b>(N/A in US)</b>
<b>TRANSMISSION</b>	Okamura	Split-Powershift	Split-Powershift +
<b>BRAKES</b>	Drum Brakes	Drum Brakes	Oil Cooled Disc Brakes
<b>COOLING SYSTEM</b>	Serpentine Radiator	Heavy-Duty R-Screen	Heavy-Duty R-Screen
<b>HYDRAULICS</b>	Std-Lever	Std-Lever & Safety-Loc	Std-Lever & Safety-Loc



# Nexen X-Range provides Maximum Reliability

- The rugged drive train has been designed to reduce stress on components
- Our modulated power reversal provides smoother directional changes to eliminate shock loading and extend the life of both the clutch packs and tyres
- Our fully isolated drive train minimizes vibration
- The Oil Cooled Disc Brake System can extend brake life by 10 times that of conventional drum brakes reducing operating costs
- The Nexen hydraulic systems provide enhanced reliability
- The advanced control systems and on-board diagnostics ensure continued performance for the life of the truck
- Our Individual heavy duty aluminum core cooling radiators and transmission oil coolers, together with optimised cooling paths, are coupled with a highly efficient pusher fan to provide maximum cooling, enabling continuous work even in the hottest environments
- The LCD Smart Dash instrument panel gives quick clear Information and precise diagnostic Information
- The cushion mounted Nexen hydrostatic steer axle provides a strong and reliable solution requiring minimal onsite maintenance

## Overall Cost Of Ownership

The significant advances in design and component quality, results in extremely low cost of ownership for the life of the machine.

## High overall Efficiency

- The optional oil cooled disc brake system significantly extends brake life
- Nexen's controlled drive train reversal, controls tyre spin, significantly increasing tyre life
- The easily removable footplate coupled with the high opening angle of the engine cover gives unsurpassed access to components for ease of servicing
- The carefully positioned wiring, hydraulics and ancillaries offer easy access and minimise scheduled maintenance times
- A large selection of engine and transmission options is available to best meet your operational requirements
- The Nexen designed LCD Smart Dash instrument panel provides clear diagnostic messages, alerts the operator of upcoming service schedules and If the truck requires attention



# Truck Overview

The new Nexen X-Range lift trucks have been built to the latest International standards, with great emphasis being placed on ease of maintenance

## Integral Lights & Flashing Beacon

Integral OHG (overhead guard) rear light unit coupled with horizontal mounted anti-glare beacon, side, reverse, rear lights, brake and direction indicators.

## Operator Compartment

Operator space is optimised, thanks to a new ergonomically designed fully floating and vibration isolated driver cell, class leading flat floor, with single pendant mounted brake pedal, and fully adjustable suspension seat and steering column.

## Engine Cover

The tough reinforced engine cover is rear hinged, offering unparalleled service access to the engine compartment due to the high opening angle and can be removed in seconds.

## LPG Bracket

Our optional low effort LPG bottle-carrier swings out and has a gas-sprung cylinder that enables the operator to lower the LPG bottle down to a safe loading level with minimal effort.

## Counterweight & Cooling

Our low-slung modern design provides excellent stability and provides extremely good airflow to optimise cooling, even in extreme temperatures and the harshest working environments.

## Hydrostatic Steer Axle

The Nexen designed cushion-mounted steer axle provides maximum durability and superior steering control for improved maneuvering; taper roller kingpin bearings provide long life & low maintenance.

## Drive train & Brakes

With Optimal and Optimal + specifications, the drive train is separated from the drive-axle via a propshaft and fully isolated through the use of elastomeric mounts for the engine and transmission. The X-Range Optimal + also has Oil Cooled Disc Brakes and Anti Roll Back on ramp, which greatly reduce operating costs.

## European Profile Overhead Guard

Our strong sectional overhead guard is fully isolated from the chassis with elastomeric vibration dampers, providing excellent operator comfort and all-round visibility while providing maximum operator protection.

Safety is always key with a Nexen designed truck.

The X-Range has a strong, sectional overhead guard, with the operator enjoying good all-round visibility whilst receiving maximum protection.

## Hydraulics

Conventional manual levers are fitted as standard and we also have our optional advanced hydraulics with electronic soft touch fingertip micro-levers or single joystick, fully Integrated Into our adjustable seat armrest.

## Steering Column

The ergonomically designed adjustable steering column allows operators to easily determine a comfortable driving position.

## High Strength Upright

Our new high strength mast design provides excellent residual capacity retention at high lift heights, and provides excellent forward visibility.

## LCD Instrument Display

The LCD Smart Dash display constantly monitors all vital engine aspects and gives quick and precise coded diagnostic information, giving clear Indication regarding truck parameters and service Information.

## Cabin Floor

Our one piece, steel floor plate is easily removed providing unrivalled fast access for servicing and the rubber molded floor-mat helps eliminate noise and vibration.

## Advanced Hydraulics

All of our transmissions come with (DPS) driver presence sensing, automatically locking off all hydraulic functions and transmission drive if the driver is not seated on the machine.





# Exceptional Operator Comfort

- The low noise levels at the operators ear reduce driver fatigue
- The isolated drive train and fully isolated vibration mounted driver cell minimises the effect of drive train vibration
- The adjustable steering column, small diameter steering wheel and full suspension seat provide increased driver comfort
- Our class leading flat floor design of the operator compartment and exceptionally low step height further enhances driver comfort
- The optional adjustable armrest that accompanies the full suspension seat, provides the perfect seating environment
- The optional swing out LPG bracket simplifies bottle changes and reduces operator effort
- The optimised operator space is a result of the modern overhead guard design and results in improved leg room



# Reduced Costs And Increased Output

Costs are reduced while output volumes are increased.

## Customized Solutions For Your Operation

- Our large choice of engines, drive train solutions, hydraulic controls and cooling system options, means we always have the right configuration of truck for your operation.
- The LCD Smart Dash display provides a visual service indicator advising operator of the next planned maintenance service visit, and constantly monitors all vital engine aspects such as coolant temperature, engine oil pressure, transmission & hydraulic oil temperature. It will also monitor fuel contamination and will alert the operator if parameters are exceeding the specified criteria, placing the truck in a safe mode as necessary eliminating avoidable and costly repairs.
- The Nexen designed Softcush transmission offers features such as Oil Cooled Disc Brakes, controlled direction changes and Anti-Roll-Back on ramps.

## Ergonomic Operator Control

**Enhanced ergonomic features that enable the operator to maximize productivity, such as:**

- Greatly increased foot and legroom
- Advanced electronic hydraulic controls (Optional)
- Adjustable single action steering column and full suspension seat, to enhance driver comfort
- Integrated LCD Smart dash display with diagnostic fault reporting and monitoring
- Small diameter steering wheel with spinner knob
- Unique swivel LPG tank bracket (Optional)
- Single brake pedal with reduced effort





GM VORTEC ENGINE

# Fast & Simplified Serviceability

Nexen offer fast & comprehensive service support delivered through an extensive and experienced worldwide dealer network.

The X-Range family of lift trucks covers new ground, with a great emphasis placed on engineering efficiency and simplicity of maintenance. Even the toughest, most durable machines with moving parts require regular servicing and maintenance and Nexen lift trucks are designed and built with this in mind.

The new X-Range lift trucks have been designed to be very quick and easy to service. This improved serviceability directly results in increased uptime compared to comparable competitor's products.

Furthermore, Nexen is committed to delivering exemplary after sales support for the X-Range that includes a parts availability program that is one of the fastest and best supported in the industry.

## Ease of Serviceability

- Fastest and easiest lift truck to service
- On board system continuously monitors critical elements mechanical, electrical, and fluid pressure and temperatures
- Complete unrestricted service access across the complete machine
- The easy removable footplate and high opening angle of the engine cover offers remarkably easy service access to all components
- Optional electronically controlled closed-loop LPG fuel system with 3-way catalyst meeting the latest international requirements. (USA Mandatory EPA/CARB compliance is available on our GM powered lift trucks)
- Significantly reduced regular service requirements

## Nexen Parts Guarantee

- Off-the-shelf availability guarantee on all fast moving parts

## Nexen Comprehensive Warranty

- Two years / 2,000 hours on full truck
- Extended warranty on drivetrain

## Experienced & Extensive Dealer Network

- Experienced global dealer network
- Dealers who have extensive experience of the materials handling industry
- All dealers have Nexen trained service technicians



## Class Leading Ergonomics

Extensive studies have shown that driver comfort leads to savings in operating costs and increased safety.

A key area targeted in the design of the X-Range was operator comfort. An operator who is comfortable in his working environment will achieve noticeably higher productivity with greater safety due to lack of fatigue.

Testing has revealed that the X-Range is easier and more comfortable to operate than leading competitor's machines, which will significantly reduce operator fatigue and increase productivity through superior operator comfort, effortless operation, and ease of entry and exit.

## Truck Operation

- Improved single brake pedal layout and reduced pedal resistance results in minimal braking effort
- Optional Anti rollback system on ramps also contributes to reduced driver fatigue

# Forward Thinking

## Professor. Dr. Georgi Todorov : Lead Designer

Here at Nexen we do not just accept the industry normal, we want to exceed it.

At every opportunity within the design and manufacturing process we strive to improve the experience of our customer, focussing on product quality, durability, ease of maintenance, driver comfort and of course operational efficiency.

We are working on some very exciting projects which will help prepare Nexen and its customers for some of the industrial challenges and changes of the future. The recently launched X-Range is just the start of the story.

Georgi is a senior academic in the fields of Mechanical Engineering and Applied Mathematics. He has spent many years working within the fields of industrial design, calculation, modelling, and prototyping products and systems.

He is the author of seven publications, multiple patents and numerous awards.



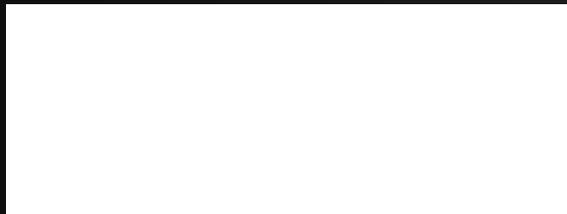


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The **Number One** choice Material Handling Supplier for the world's demanding market

Nexen is committed to being much more than a lift truck supplier. Our aim is to offer a complete managed materials handling solution for your growing needs.

Whatever your materials handling or fleet management needs you can count on Nexen through its network of highly trained dealers to provide expert, effective and responsive local support.

They can also offer rapid response parts support as well as cost effective finance packages and introduce effectively managed fleet maintenance programs to ensure that you get the best possible support at the best possible value.

**Rely on Nexen;** our business is dealing with your materials handling needs.



CE ISO9001