

X7.6



624 VT-DRIVE


McCORMICK
Power Technology.



NEW X7.6 SERIES: EFFICIENCY AT ITS VERY BEST

For over 30 years, the Argo Tractors Group has focused its efforts on improving the quality and efficiency of its products. As a result of this strategic choice, Argo Tractors engineers have further upgraded McCormick's **X7.6** tractor range, which now leads its class in efficiency, performance, flexibility and comfort.

The new **X7.6** series has been designed to meet the most demanding needs of modern farmers and contractors. Inspired by the automotive design, the new **X7.6** tractor features more aggressive lines and a spacious cab with simple, ergonomically-arranged controls for easy and convenient operation. The cab roof has been fully restyled and the 12 work lights have been repositioned to provide full all-round visibility for night-time operation. The hood has also been redesigned with a more streamlined, aggressive look that enhances visibility to the front.

Boasting up to 240 hp, the new Betapower Fuel Efficiency

engines deliver maximum traction and best-in-class fuel efficiency, while allowing quick and easy maintenance. Equipped with the innovative HI-eSCR2 exhaust after-treatment system, the engines of the new **X7.6** series meet the Stage V emissions regulations.

The range comes with a choice of two transmissions: a P6-Drive powershift or a VT-Drive continuous variable transmission. The hydraulic system features a high-flow pump that provides 160 l/min. The electronic management of the hydraulic functions ensures accurate implement control. In addition, a 12-inch touch screen monitor allows implement operation to be controlled with extreme accuracy via a satellite-based guidance and ISObus system, thus maximising efficiency and productivity.

Choosing McCormick means you can count on a reliable partner that delivers cutting-edge technology along with outstanding performance and uncompromised reliability.

HIGHLIGHTS

Cab

- › McCormick Semi-Active Cab with four-post design and semi-active suspension system
- › DSM Data Screen Manager: 12-inch touch screen monitor with new functions
- › Automatic climate control
- › Electrically adjustable steering wheel

Design

- › Aggressive hood design and automotive-style cab
- › Up to 20 LED work lights on hood and cab

Engine

- › Emissions control technology with HI-eSCR2 system meeting Stage V
- › Engine located within a rugged chassis for best performance and enhanced traction
- › Coolers open out to allow easier and faster cleaning

- › Best in Class system: scheduled maintenance is reduced by half to save time and costs

Transmission

VT-Drive four-stage continuous variable transmission:

- › Four programmable speed ranges
- › Transmission controls integrated into the VT Easy Pilot proportional controller
- › Lower fuel consumption, reduced operating costs
- › 40km/h or 50 km/h ECO speed at reduced engine rpm, minimum speed 40 m/h

P6-Drive Powershift transmission with 6 powershift speeds and 5 ranges:

- › Robotized range shifting
- › Engine Brake function
- › Smart APS Powershift

- › Stop & Action with De-clutch function integrated in brake pedal
- › Creeper providing up to 54 forward and 27 reverse speeds with 400 m/h minimum speed
- › ECO mode for transport operations and Oil-Cut-Off feature for improved fuel economy

Axles

- › Electronically-controlled independent front suspension
- › Automatic 4WD and differential lock engagement

Hydraulic system

- › Closed-centre hydraulic system with 160 l/min variable displacement pump
- › Electronically-operated rear hitch with 9300 kg maximum lift capacity
- › Four-speed PTO as standard.



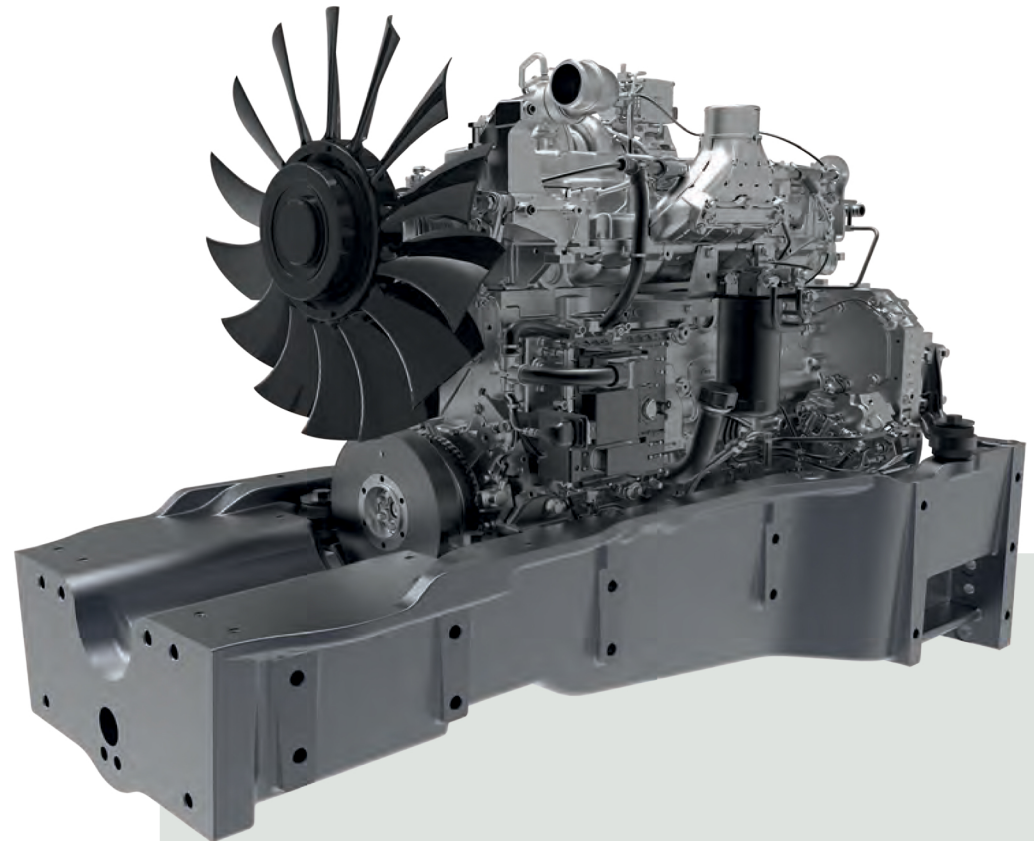
HIGHLIGHTS

- › More power with the Power Plus system, up to 240 hp
- › Electronic engine management with common rail injection system
- › High torque backup
- › Engine compliant with Stage V emissions regulations
- › Exhaust gas after-treatment with HI-eSCR2
- › Engine located within a rugged chassis
- › Easy-fill 350-liter fuel tank and 52-liter AdBlue® tank
- › Coolers open out to allow easier and faster cleaning
- › Viscotronic fan for more efficient engine cooling, improved fuel economy and low-noise engine operation
- › Best in Class system reduces scheduled maintenance by 50% thereby saving time and costs
- › Engine Brake function for enhanced braking performance

NEW BETA POWER FUEL EFFICIENCY: PLENTY OF PULLING POWER IN THE FIELD

The **X7.6** tractor range is powered by the new Beta Power Fuel Efficiency 6.7L six-cylinder turbo engines with multivalve technology and electronic common rail injection system. The engines are located within a rugged chassis which helps reduce noise and vibration levels within the cab. The engine cooling is ensured by an electronically-controlled viscotronic fan, which is standard on the entire range. This solution improves cooling efficiency while reducing fuel consumption and noise levels.

The new Beta Power Fuel Efficiency powering the **X7.6** series are cutting-edge engines designed to offer farmers simplicity and functionality without compromising on performance, reliability and durability. They feature the Power Plus system which electronically adjusts the engine power to respond to varying load conditions. During transport applications or PTO operations, the Power Plus automatically delivers additional 10 hp to handle tough conditions and heavy loads while maintaining speed and productivity. With the Power Plus the **X7.6** tractors will deliver maximum powers of 190, 210, 225 and 240 hp.



BEST IN CLASS SYSTEM

The engine of the **X7.6** tractor is equipped with Best in Class system (BIC). The BIC system relies on an innovative filter use strategy which doubles the interval between maintenance operations, from 600 to 1200 working hours, helping save time and costs.

ENGINE BRAKE FUNCTION

A motorized throttle valve located on the turbocharger allows the tractor brake performance to be improved by activating the Engine Brake function via a pedal conveniently placed between the clutch and brake pedal.

RADIATOR MAINTENANCE

The tilt-up hood opens wide to provide easy access to the engine compartment for routine service and maintenance. The coolers located in front of the radiator open fully from a single latch to provide easy cleaning in dusty conditions.

HI-eSCR2 system to cut down on exhaust emissions

The compact design of the HI-eSCR2 exhaust after-treatment system helps meet the strictest particulate emissions requirements. This technology integrates the SCR catalyst with a maintenance-free filtering device and does away with the EGR system, thereby improving engine performance while reducing operating costs.

ENGINE CHASSIS

The **X7.6** features a rugged chassis with shock absorbing rubber mounts which support the engine helping isolate both cab and transmission from vibrations.



HIGHLIGHTS

- › All transmission controls grouped on the VT Easy Pilot controller
- › Speed shifting without use of the clutch pedal
- › Soft acceleration, optimum speed, constant traction
- › Greater concentration on the job in hand with the user-friendly VT-Drive transmission
- › Lower fuel consumption, reduced operating costs
- › Remote Shuttle button for forward/reverse shifting
- › 40 km/h or 50 km/h top speed in ECO mode at reduced engine rpm, minimum speed 40 m/h

VT-DRIVE, THE CONTINUOUS VARYING TRANSMISSION

A powerful and versatile tractor range like the **X7.6** must be able to handle all kinds of tasks and field conditions. The VT-Drive continuous variable transmission is designed to ensure all the versatility and flexibility required by modern agriculture.

Combining a powerful engine with a VT-Drive four-stage continuous variable transmission featuring four planetary gear trains with oil-cooled clutches, the **X7.6** ensures fast acceleration and excellent responsiveness making work easier and more efficient. The VT-Drive transmission offers four speed ranges with advance speeds from 40 m/h to 50 km/h for maximum productivity in any application.



ELECTROHYDRAULIC POWER SHUTTLE

The reverse power shuttle allows the operator to automatically shift from forward to reverse without use of the clutch pedal, by simply operating the shuttle control lever adjacent to the steering wheel. The shuttle response is electronically modulated and adjustable by the operator if required for different tasks.



VT Easy Pilot multi-function controller

Integrated into the right-hand armrest, the VT Easy Pilot ergonomically-designed controller provides easy and intuitive control of the VT-Drive transmission, allowing the operator to drive the tractor and operate the implements with maximum ease and comfort.

The VT Easy Pilot allows the operator to activate up to five different functions, which can be set via the intuitive MyFunctions menu and recalled with the five pushbuttons present on the controller. Configurable functions include the speed cruise control, the headland management via the MyHMF menu and the remote shuttle function for automatic forward/reverse shifting without using the steering-column shuttle lever. All functions are clearly displayed on the instrument panel and on the touch screen monitor.

VT-Drive 4-stage continuous variable transmission

The McCormick VT-Drive transmission with its four-stage technology sets a new benchmark in continuous variable transmissions. Using a four-stage instead of usual two-stage CVT transmission offers real benefits to farmers and agricultural contractors who look for multi-purpose tractors capable of ensuring maximum productivity whatever the task or the field conditions.

This transmission offers four speed ranges to suit different operating requirements:

- Range 1 Creeper: 0.5 - 3 km/h
- Range 2 Field 1: 0.5 - 12 km/h
- Range 3 Field 2: 0.5 - 21 km/h
- Range 4 Transport: 0.5 - 40 o 50 km/h



The VT-DRIVE transmission features four operating modes:

- 1. Auto Mode** - The electronic control unit controls the engine rpm and transmission ratio, based on parameters set on the potentiometer, in order to achieve the required speed.
- 2. Manual Mode** -The operator sets the engine speed using the hand throttle. The electronic unit controls the transmission ratio in order to achieve the required speed.
- 3. PTO Mode** - The operator sets the engine speed using the hand throttle. The electronic unit controls the transmission ratio in order to achieve the required speed, with priority on PTO speed.
- 4. Cruise Mode** - The operator selects the tractor travel speed which remains constant.

HIGHLIGHTS

- › Four-post cab design
- › One-piece windscreen for unequalled all-round visibility
- › Mechanical or hydraulic semi-active cab suspension optional
- › Instrument panel and steering column electrically adjustable in tilt and depth
- › Ventilated air suspension seat with swivel optional
- › 12-inch DSM Data Screen Manager touch screen monitor with MyFunctions and MyLights features
- › Multifunction armrest with ergonomically-designed controller and integrated controls
- › Hide-away buddy seat for easier access to the cab
- › Automatic climate control
- › Opening transparent roof hatch
- › Automotive-style interior with soft-touch materials
- › Radio with MP3 player, Bluetooth and integrated microphone
- › Up to 20 latest-generation LED work lights on hood, cab and fenders

PREMIERE CAB: YOUR NEW OFFICE IN FIRST CLASS



The Premiere Cab is a new-concept four-post design with rear hinged doors that provides unobstructed visibility in all directions giving the driver full view of blind spots without the need to change position. The cab is pressurized to keep a clean, dust-free environment. A highly-efficient sound insulation system maintains an in-cab noise level of only 70 dB for maximum comfort of operation. The optional electrohydraulic semi-active cab suspension system further enhances the operator comfort. Wide, well-spaced access steps allow the operator to easily get in and out of the cab, while the buddy seat neatly folds away making for easier and safer access. The cab interior features an automotive-style fit and finish with easy-clean soft-touch materials.

The instrument panel and the steering wheel can be electrically adjusted in tilt and depth to suit the driver's needs. The alcantara swivel seat with dynamic air suspension system and fully automatic height adjustment features both heating and ventilation for ultimate driving comfort. The multifunction right-hand armrest accommodates the main tractor controls arranged in a simple and logical manner.

The ergonomically-designed multifunction controller provides easy and intuitive control of key tractor functions. Integrated into the armrest is a DSM 12-inch touch screen monitor with simple tablet-like graphics that allows the operator to quickly manage and adjust the tractor operating parameters. The new Premier Cab also offers additional new functions, such as front and rear view cameras and the MyHMF intuitive menu for automatic management of headland operations.

THE **X7.6** KNOWS HOW TO PUMP UP YOUR **PRODUCTIVITY**

The **X7.6** series tractors feature a closed-centre hydraulic system with variable-displacement pump. This means that the pump always delivers exactly the quantity of oil that the system requires, thereby eliminating unnecessary power waste. The system supplies up to 160 l/min to the hitch and remote valves, allowing for simultaneous operation of all hydraulic functions. The hydraulic system also includes a steering pump with 44 l/min flow rate.

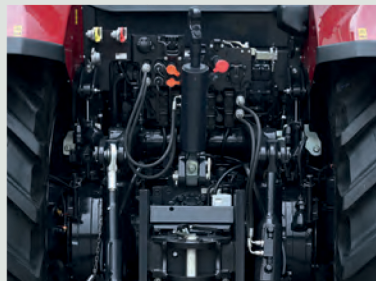
The **X7.6** range has been designed to operate in a variety of conditions with heavy, power-demanding implements. The PTO offers four speeds: 1000, 1000Eco, 540 and 540Eco rpm and the driveline design ensures minimal power loss and

therefore maximum productivity. An electro hydraulically operated clutch enables smooth and modulated engagement of the PTO, ensuring a soft start-up of the implement. The **X7.6** series tractors are equipped with the Power Plus system, which automatically increases power available when the PTO is operational.

This enables the engine to maintain a constant power as the load varies, allowing optimum use of the PTO for enhanced tractor performance and productivity. The rear hitch is equipped with lower link draft sensing for accurate implement control and provides a maximum lift capacity of 9300 kg.

REMOTE VALVES

The **X7.6** tractors can be fitted with up to eight electro hydraulically-controlled double-acting remote valves. A three-way flow divider with push-pull connectors is available as an option to operate three different hydraulic functions with a single remote valve. The valves are operated via three fingertip controls and an electronic mini-joystick integrated into the multifunction armrest.



		X7.624 VT-DRIVE	
ENGINE PERFORMANCE			
Rated power (97/68 CE - ISO TR 14396)	HP / kW	219 / 161	
Rated power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	219 / 161	
Max power (97/68 CE - ISO TR 14396)	HP / kW	230 / 169	
Max power with Power Plus (97/68 CE - ISO TR 14396)	HP / kW	240 / 176	
Rated engine speed	rpm		
Engine speed - max power	rpm		
Max torque without Power Plus, (with Power Plus) - Engine speed at 1400 rpm	Nm	966 (983)	
Torque backup without Power Plus, (with Power Plus)		36% (41%)	
Manufacturer - Brand		FPT - Beta Power Fuel Efficiency	
Engine type - Installation type		NEF 67 - engine iso-mounted on cast iron chassis	
Exhaust gas after-treatment Stage V / Tier 4 Final		HI-eSCR2	
No. of cylinders / Displacement / No. of valves		6 / 6.7 l / 24	
Air filter system		air filter with pre-cleaning stage and dust ejector	
Air inlet system		turbo intercooler	
Fuel injection system		electronically-controlled high-pressure common rail injection system	
Maintenance		BIC Best in Class - 1200 hours interval maintenance	
Cooling system		matrix radiator pack - coolers open out from single latch	
Viscotronic fan		●	
CAPACITIES			
Fuel tank	litres	350	
AdBlue / DEF tank	litres	52	
Cooling system	litres	29	
TRANSMISSION			
Type		VT-Drive continuous variable transmission	
No. of stages		4	
Minimum speed	m/h - rpm	40 - 2200	
40 km/h - engine speed	rpm	● - 1550	
50 km/h - engine speed	rpm	○ - 1690	
Transmission control		VT-Easy Pilot on multi-function arm rest	
Reverse power shuttle		electro-hydraulic with modulated engagement	
REAR PTO			
Type		electro-hydraulic multidisc with modulated engagement	
Speeds		540 / 540 E / 1000 / 1000 E	
PTO rated speeds	rpm	2005 / 1608 / 1995 / 1600	
Rotation - spline shaft type		clockwise (viewed from tractor rear) ● 1" 3/8" 6-spline shaft / ○ 1" 3/8" 21-spline shaft	
FRONT AND REAR AXLES			
Front rigid axle		●	
Front suspended axle		○ - IFS with independent front wheels suspension system	
Traction type		electro-hydraulic MFWD	
Front differential lock		100% electro-hydraulic	

		X7.624 VT-DRIVE
FRONT AND REAR AXLES		
Rear differential lock		100% electro-hydraulic
Rear axle - flanged type		●
Rear axle - bar axle type		○
BRAKING SYSTEM		
Front braking system		auto MFWD engagement while braking
Rear braking system		5 bath oil cooled discs
Trailer braking system		2 or 2+1 lines pneumatic system MR with or without single line hydraulic system, 2 line hydraulic system MR (40 km/h only)
Engine brake		●
HYDRAULIC SYSTEM		
Hydraulic piston pump with CCLS (Closed Center Load Sensing)system - high-flow rate		● - 160 l/min
Steering dedicated pump - flow rate		● - 44 l/min
Rear spool valves type, flow rate, min - max		electro-hydraulic, 100 l/min flow rate, 3 - 6
Flow divider with flow selector - section flow rate		3 sections with push-pull connectors - 60 l/min flow rate per section
Free flow return		●
Power Beyond adaptor and free flow return		○
Power Beyond with push-pull connectors and free flow return		○
Mid-mounted remote valves - flow rate		2 electro-hydraulic with multi-function joystick - 100 l/min flow rate
Hydraulic oil take out	litres	40
REAR 3-POINT HITCH		
Electronically-controlled rear hitch		lower link draft control, position control mixed control, float position
Category - coupler type		III - quick-couplers
Max lifting capacity at hitch couplers	kg	9300
FRONT 3-POINT HITCH		
Electronically-controlled front hitch		○ - with position control
Category - coupler type		III N - quick-couplers
Max lifing capacity at 610 mm	kg	3500
FRONT PTO		
Type		○ - electro-hydraulic multidisc with modulated engagement
Speeds		1000
PTO rated speeds	rpm	1920
Rotation - spline shaft type		○ - clockwise (viewed from tractor front) - ● 1' 3/8"shaft with 6 splines
Rotation - spline shaft type (NAO version)		○ - counter-clockwise (viewed from tractor front) - ● 1' 3/8"shaft with 21 splines
CAB		
Première Cab - 4 post cab with McCormick mechanical suspension		●
McCormick semi-active suspension		○ - electronically controlled electro-hydraulic semi-active cab suspension system
In-cab noise level	dB(A)	71
Automatic climate control		●
Deluxe air-suspension seat		● - low-frequency air suspension, swivel and height adjustments, automatic weight control, lumbar support and headrest
Deluxe air-suspension seat		automatic weight control, lumbar support and headrest

		X7.624 VT-DRIVE
CAB		
Hide away buddy seat		●
VT-Easy Pilot on multi-function armrest		●
DSM Data Screen Manager		● - 12" monitor touchscreen
Radio adaptor		● - with 4 loudspeakers
Radio system		○ - radio DAB mp3, with 4 loud speakers, bluetooth, aux-in adapter and integrated microphone
Halogen work lights		● - 18
LED work lights		○ - 20
Beacon lights		● left side - ○ left and right side
ADDITIONAL EQUIPMENT		
Front ISOBus		●○
Rear ISOBus		○
PSM Precision Steering Management & EazySteer - adaptor		○
PSM Precision Steering Management & EazySteer - EGNOS full kit		●
PSM Precision Steering Management & EazySteer - RTK NTRIP full kit		●
McCormick Fleet Management - 3 years of full plan subscription		●
WEIGHT AND DIMENSIONS		
Wheelbase	mm	2820
Max height over cab without beacon lights (withPSM satellite steering system)	mm	3044 (3159) - measured with tires 540/65R30 - 650/65R42
Max height from rear axle centre to cab roof (with PSM satellite steering system)	mm	2180 (2295)
Max lenght with front weights - Max track width	mm	5360 - 2550 measured with tires 600/60R30 - 710/60R42
Turning radius	mm	5400, measured with tires 540/65R30 - 650/65R42
Shipping weight - measured with average specifications	kg	8300
Gross vehicle weight	kg	13000
Max front and rear tire sizes - (Index Radius- IR)	mm	600/60R30 (IR 700) - 710/60R42 (IR 925)
Front weight support		●
Weights - No. x weight	kg	○ - 12 x 45 or 16 x 45
Front hitch weight	kg	○ - 800 or 1400
Rear axle weights	kg	○ - 170 or 340 or 510
Front hitch weight	kg	○ - 800 or 1400
Rear axle weights	kg	○ - 170 or 340 or 510

Key: ● standard ○ option

ption

		X7.620 P6-DRIVE	X7.621 P6-DRIVE	X7.623 P6-DRIVE
CAB				
Automatic climate control		● (PREMIUM version) - ○ (EFFICIENT version)		
Comfort air-suspension seat		● (EFFICIENT version) - swivel and height adjustments, automatic weight control, lumbar support and headrest		
Deluxe air-suspension seat		● (PREMIUM version) -low-frequency air suspension, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Super Deluxe air-suspension seat		○ (PREMIUM version) - Dynamic Damping System, backrest ventilation, alcantara upholstery, swivel and height adjustments, automatic weight control, lumbar support and headrest		
Hide-away buddy seat		●		
P6-Easy Pilot on right-hand console		● (EFFICIENT version)		
P6-Easy Pilot on multi-function armrest		● (PREMIUM version)		
DSM Data Screen Manager		○ - (PREMIUM version) - 12” monitor touchscreen		
Radio adaptor		● - with 4 loudspeakers		
Radio system		○ - radio DAB mp3, with 4 loud speakers, bluetooth, aux-in adapter and integrated microphone		
Halogen work lights		● - 12 (EFFICIENT version) - 18 (PREMIUM version)		
LED work lights		○ - 20 (PREMIUM version)		
Beacon lights		● left side - ○ left and right side		
ADDITIONAL EQUIPMENT				
Front ISObus		○		
Rear ISObus		○		
PSM Precision Steering Management & EasySteer - adaptor		○		
PSM Precision Steering Management & EasySteer - EGNOS full kit		○		
PSM Precision Steering Management & EasySteer - RTK NTRIP full kit		○		
McCormick Fleet Management - 3 years of full plan subscription		●		
WEIGHT AND DIMENSIONS				
Wheelbase	mm	2820		
Max height over cab without beacon lights (withPSM satellite steering system)	mm	3044 (3159) - measured with tires 540/65R30 - 650/65R42		
Max height from rear axle centre to cab roof (with PSM satellite steering system)	mm	2180 (2295)		
Max lenght with front weights - Max overall track	mm	5360 - 2550 measured with tires 600/60R30 - 710/60R42		
Turning radius	mm	5400, measured with tires 540/65R30 - 650/65R42		
Shipping weight - measured with average specifications	kg	8000		
Gross vehicle weight	kg	13000		
Max front and rear tire sizes - (Index Radius- IR)	mm	600/60R30 (IR 700) - 710/60R42 (IR 925)		
Front weight support		●		
Weights - No. x weight	kg	○ - 12 x 45 or 16 x 45		
Front hitch weight	kg	○ - 800 or 1400		
Rear axle weights	kg	○ - 170 or 340 or 510		

Key: ● standard ○ option



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