

Zetor

Zetor **FORTERRA FORTERRA HSX**



PERFORMANCE
ENDURANCE
TOTAL COST OF OWNERSHIP

100

110

120

130

140

Tractor is Zetor since 1946.

ZETOR FORTERRA SERIES COMBINES A VARIETY OF STATE-OF-THE-ART FEATURES WITH THE TRADITIONAL ZETOR RUGGEDNESS AND EASE OF SERVICING. THE SERIES INCLUDES EIGHT MODELS, ALL WITH FOUR-WHEEL-DRIVE, IN A HORSEPOWER RANGE FROM 98 TO 137.

THE FOURTH GENERATION OF THIS POPULAR SERIES HAS BEEN SIGNIFICANTLY UPDATED.

Zetor

HEAVY DUTY
TRACTORS FOR
PROFESIONALS



- 1 A roomy cab has entry doors on both sides and tinted windows. The cab floor is flat and clear from all obstacles. The cab is mounted on specially designed rubber blocks to eliminate shock and vibration, for added driver comfort. A spring-suspended cab is optional, for even greater comfort. High capacity heater and air conditioning are standard.
- 2 The side-mounted exhaust does not restrict operator's view.
- 3 The proven, easy to service hydraulic system offers advanced electronic three-point hitch controls, standard three sets of remotes and 18,700 lb. hitch lifting capacity.
- 4 **Forterra** series is equipped with a smooth-shifting, fully synchronized transmission with three-speed power shift, synchronized shuttle and 24 speeds forward/18 reverse. **Forterra HSX** series is equipped with power shuttle and has total of 30 speeds forward and 30 reverse.
- 5 Well-balanced weight distribution over front and rear axle provides superior traction. The wheelbase has been extended by 4 inches to significantly improve operator's comfort.

The Forterra HSX series wheelbase is longer by additional 4 inches for even greater stability and smooth ride.
- 6 The hood and side walls are fully screened, to protect the radiator from plugging. Its sloped shape improves loader bucket visibility. After all, Forterras are popular loader tractors.
- 7 Updated rugged engines with 16-valve technology deliver outstanding fuel economy and dependable cold weather starting.
- 8 Electro-hydraulically controlled multi-plate PTO clutch.
- 9 New wet brakes with ten plates are practically maintenance-free.
- 10 All-new heavy-duty front axle has center drive shaft and a sharp 55 degree steering angle. Large front axle carrying capacity is adequate for even the most demanding front loader work.
- 11 New, more powerfull hydrostatic steering has its own hydraulic pump, fully independent from the main hydraulic pump. Steering power has been increased by 50%.



FORTERRA FORTERRA HSX MODELS BY ENGINE HORSEPOWER

100	98 HP
110	108 HP
120	118 HP
130	128 HP
140	137 HP

ALL FORTERRA AND FORTERRA HSX MODELS FEATURE HEAVY CAST IRON CHASSIS. THIS IS ONE OF ZETOR TRADITIONS; A CHASSIS DESIGNED BEYOND THE NEEDS OF THE MOST POWERFUL ENGINE, AND USED THROUGHOUT THE WHOLE RANGE OF MODELS. ZETOR'S DESIGN PHILOSOPHY IS TO ADD WEIGHT WHERE IT IS NEEDED MOST – IN TRACTOR HOUSINGS THEMSELVES.

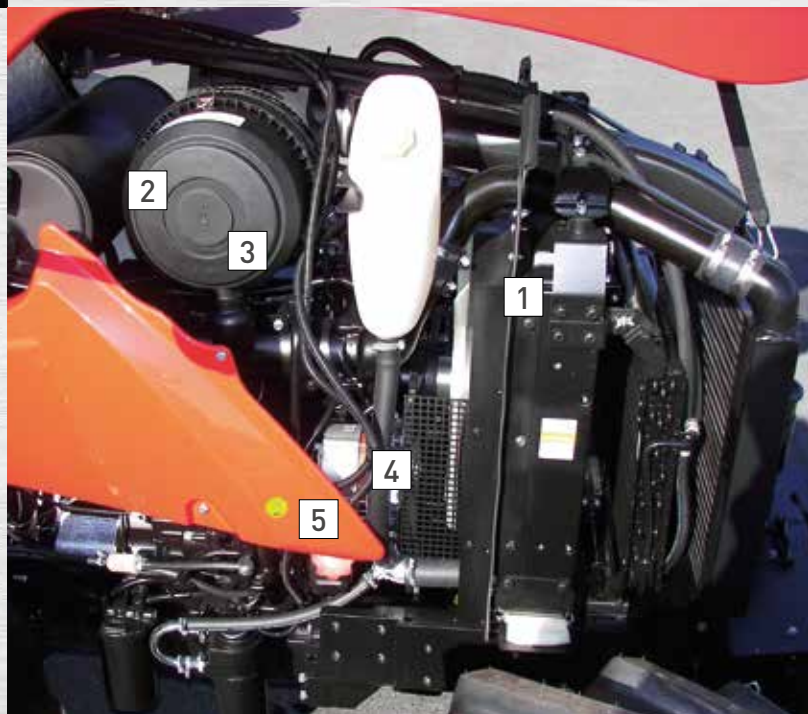
THEREFORE, ZETOR HOUSINGS ARE EXCEPTIONALLY STRONG, TO ENSURE LONG-TERM STRUCTURAL STABILITY.



Zetor **ENGINE**

Zetor engines use the legendary inline all-mechanical Zetor injection pumps. Zetor pumps will tolerate fuel of various quality, run on bio-diesel and are extremely durable. Unlike electronic systems, Zetor injection system is very easy to service and replacement parts are inexpensive, if they ever become necessary. Zetor injection systems and turbochargers carry 5-year Zetor warranty.

THE SUPERIOR-PERFORMING ENGINES ARE COMPLETELY ZETOR-BUILT, AND ARE A PRODUCT OF MORE THAN 65 YEARS OF ZETOR'S ENGINE DESIGN EXPERTISE. THESE PROVEN, DEPENDABLE ENGINES NOW FEATURE NEW 16-VALVE DESIGN AND DELIVER INDUSTRY-LEADING FUEL ECONOMY, LOW MAINTENANCE REQUIREMENTS AND TOP-NOTCH PERFORMANCE IN THE FIELD. INDEPENDENT TESTS SHOW THAT THE NEW ZETOR ENGINES WITH 16- VALVE TECHNOLOGY ARE ONE OF THE MOST FUEL EFFICIENT TRACTOR ENGINES EVER BUILT*. IN REAL LIFE, THIS REPRESENTS LITERALLY MANY THOUSANDS OF DOLLARS IN FUEL SAVINGS OVER THE LONG LIFE OF A TRACTOR. ALL THAT WHILE MAINTAINING THEIR ALL-MECHANICAL TROUBLE-FREE CONTROLS.



- 1** The Zetor water pumps are equipped with special spool type bearing, designed for a service-free life.
- 2** Access to all service jobs is exceptionally easy – simply lift the hood.
- 3** Dry air cleaner with extra high capacity main and safety elements.
- 4** An air compressor is standard equipment and delivers 6 CFM at 90 PSI. It can be used to pump up tires in the field, or to run various equipment.
- 5** Heavy engine blocks ensure minimal sleeve distortion and long service life.

* In a comparison test by DLG (German test lab) published by reputable Profi Magazine in May 2011, the Forterra 140 engine was the second most fuel efficient engine of all engines ever tested, of any brand.



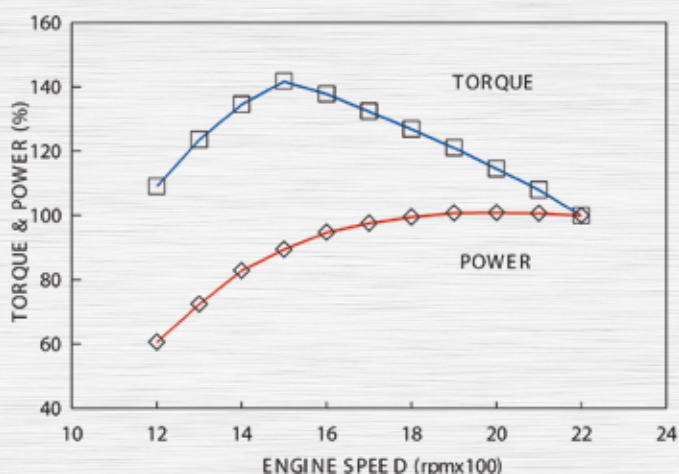
Forterra series is equipped with large 14" heavy duty clutch with industrial grade cerametallic lining, which has proven itself as well- suited for loader work. Very high mass flywheel dissipates heat efficiently. **Forterra HSX** is equipped with multi-plate wet clutch

Precision balancers in Zetor engines ensure smooth, vibration-free run.

All engines are equipped with glow plugs in each cylinder, automatically controlled by the key switch. After a few seconds of preheating, the engine will start immediately, even on very cold winter days, without the help of a block heater. For extremely cold climates, a block heater is available as optional equipment.

A/C CONDENSER AND TRANSMISSION OIL COOLER SLIDE TO THE SIDE FOR EASY CLEANING. ZETOR TRACTORS USE AN ALL-METAL RADIATOR. THE COOLING SYSTEM IS DESIGNED TO ALLOW OUR ENGINES TO OPERATE AT EFFICIENT TEMPERATURES, NO MATTER WHAT THE LOAD OR ADVERSE OUTSIDE TEMPERATURE.

EFFICIENT OIL COOLING MADE IT POSSIBLE TO EXTEND THE OIL EXCHANGE INTERVAL TO 500 HOURS.



Zetor engines have very high torque backup (40%), to reduce the need for down shifting. The engine horsepower stays constant through a broad range of engine speed.



Unlike many competitors, Zetor engines use wet cylinder sleeves. Wet sleeves make overhauls fast and inexpensive. No special tools are required.



Zetor TRANSMISSION

THE **FORTERRA** SERIES IS EQUIPPED WITH FULLY SYNCHRONIZED SHUTTLE TRANSMISSION WITH 24 FORWARD AND 18 REVERSE SPEEDS. REVERSE SPEEDS ARE SLIGHTLY FASTER FOR QUICKER LOADER WORK CYCLES. THE MAIN GEAR SHIFT LEVER SELECTS FOUR FORWARD SPEEDS. THE RANGE SELECTOR (HI-LO) IS OPERATED BY A SEPARATE LEVER. EACH GEAR HAS THREE DIFFERENT RATIOS SELECTED ON-THE-GO BY ELECTRO-HYDRAULICALLY CONTROLLED POWER SHIFT. TOP SPEED AT HIGH IDLE IS 23 MPH FOR FAST TRAVEL BETWEEN WORK SITES.



Zetor's proven three-speed power shift is a simple and service-free unit. Its plates are cooled and lubricated by oil supplied from the transmission oil pump, for exceptionally long life.



Power shift is controlled by push buttons in the gear shift lever. On **Forterra HSX**, it can also be shifted automatically depending on engine load. Shifting points are easily programmable by the operator.

THE FORTERRA HSX SERIES IS EQUIPPED WITH POWER SHUTTLE TRANSMISSION WITH 30 FORWARD AND 30 REVERSE SPEEDS. THE MAIN GEAR SHIFT LEVER SELECTS FIVE FORWARD SPEEDS. A SEPARATE RANGE SELECTOR LEVER SELECTS THE HIGH OR LOW RANGE. EACH GEAR HAS THREE DIFFERENT RATIOS SELECTED ON-THE-GO BY THE ELECTRO-HYDRAULICALLY CONTROLLED POWER SHIFT. TOP SPEED AT HIGH IDLE IS 27 MPH. PROVEN, RELIABLE ZETOR POWER SHUTTLE WITH SMOOTH ENGAGEMENT HAS BEEN UPDATED FOR THE FORTERRA HSX SERIES.



The rear differential lock is engaged on-the-go by a push button, and disengaged at a touch of a brake pedal.

On **Forterra HSX**, it can also be disengaged automatically depending on tractor speed.

Optional front and rear weights are available in several packages:

Front weights:

6pcs (660 lbs)
or 10 pcs (1100 lbs)
or 14 pcs (1550 lbs)

Rear weights:

6pcs (510 lbs)
or 10 pcs (770 lbs)
or 14 pcs (1030 lbs)

The front drive axle has a very tight 55 degree angle. Steering system pressure has been increased by 50% for easier steering even with front loader attached. Rugged rubber front fenders are standard. The limited-slip front differential, along with mechanical rear differential lock provide traction in difficult terrain. The front wheel drive clutch is engaged and disengaged on-the-go by a switch. On the HSX series, it can also be controlled automatically depending on tractor speed.

Zetors are equipped from the factory with Mitas tires known for decades for their toughness and extreme durability – customers frequently report their life twice as long as life of some competitive brand tires.



Zetor **POWER TAKE OFF**



Four-speed PTO (540/540E/1000/1000E) is standard. Economy speeds further reduce the fuel consumption in many applications.

The hydraulic PTO clutch pack is fully immersed in oil, to keep the plate wear to absolute minimum. Like most gearbox shafts, the PTO clutch pack runs in high capacity tapered roller bearings.

The PTO clutch is engaged by a switch in the right cab post. A Belleville spring in the clutch pack and a special hydraulic cushion valve make engagement smooth and gradual, to protect PTO drivelines from shocks.



PTO can also be controlled by switches in rear fenders.

**Also available:
Front PTO (1000 rpm)
and front three-point
hitch with 7700 lb
lift capacity.**

On Forterra HSX, the system automatically adjusts PTO start up speed depending on how much load is connected to tractor PTO shaft. PTO start is always smooth and gradual while minimizing PTO clutch wear.

BRAKES



UPDATED WET DISC BRAKES NOW HAVE TEN DISCS, ENCLOSED IN MASSIVE BRAKE HOUSINGS AND CONSTANTLY COOLED AND LUBRICATED BY OIL FLOW FROM THE TRANSMISSION OIL PUMP. SUCH GENEROUS DESIGN MAKES PLATE WEAR SO MINIMAL THAT THE BRAKES ARE VIRTUALLY MAINTENANCE-FREE. THE HYDRAULIC BRAKE CONTROL SYSTEM DELIVERS SMOOTH BRAKE CONTROL AT FEATHERLIGHT PEDAL EFFORT. COMPARED TO PREVIOUS MODEL, BRAKE EFFICIENCY HAS BEEN INCREASED BY 25%. BRAKES ACT ON ALL FOUR WHEELS BY AUTOMATICALLY ENGAGING THE NEW FRONT WHEEL DRIVE CLUTCH WHENEVER BRAKES ARE ACTIVATED.



Zetor **CAB**



WIDE, COMFORTABLE CAB IS FULLY UPHOLSTERED AND HAS A NEW SOUND INSULATION LOWERING THE SOUND LEVEL BY 3 DBA. A FOLDABLE INSTRUCTIONAL SEAT IS STANDARD. THE CAB IS ACCESSIBLE FROM BOTH SIDES, EVEN WITH LOADER CONTROLS INSTALLED. STANDARD AIR SUSPENSION SEAT IS WIDELY ADJUSTABLE. THE CAB IS ACCESSIBLE FROM BOTH SIDES, EVEN WITH INSTALLED LOADER CONTROLS FOR THE ORIGINAL ZETOR SYSTEM 260SLI LOADER. THE COMFORTABLE SEAT WITH FOLDABLE ARM RESTS IS WIDELY ADJUSTABLE FOR OPERATOR'S WEIGHT, IN HEIGHT AND BACK REST ANGLE. AIR-RIDE SEAT IS STANDARD ON FORTERRA 130 AND 140 AND ALL OF FORTERRA HSX MODELS AND OPTIONAL ON FORTERRA 100, 110, AND 120.

THE CAB IS MOUNTED ON SPECIALLY DESIGNED RUBBER BLOCKS TO REDUCE SHOCK AND VIBRATIONS. CAB WITH SPRING SUSPENSION IS OPTIONAL FOR AN EXCEPTIONALLY COMFORTABLE RIDE. THE SPRING SUSPENSION CAN EVEN BE INSTALLED LATER ON TRACTORS ALREADY IN USE.



Cab suspension

Tilt and telescoping steering wheel is adjustable within a wide range.



The standard dashboard includes tachometer with hour meter, water temperature gauge, air pressure gauge, fuel gauge and number of warning lamps. The multi-function digital display is also standard. It displays engine and PTO speeds, theoretical ground speed, battery voltage and other functions.

The new cab heating and air conditioning delivers more air through newly designed, more efficient filters. Charcoal filters are optional. The powerfull heater supplies warm air just minutes after the engine start, even at zero degrees outside temperature.

LARGE WINDOW AREA AND A NEW ROOF WINDOW ENSURE GOOD VISIBILITY OF THE FRONT AXLE AND OF THE THREE-POINT HITCH. WINDOWS ARE TINTED TO IMPROVE THE COMFORT AND CONTOURED FOR INCREASED STRENGTH AND REDUCED NOISE. REAR WINDOW IS HEATED. THE SIDE WINDOWS BEHIND THE DOORS SWING OPEN. FRONT AND REAR WIPERS AND WINDSHIELD WASHER ARE STANDARD (THE FRONT WIPER IS TWO-SPEED).

OTHER STANDARD FEATURES INCLUDE: A ROLLER SUN BLIND, TWO HEATED REAR VIEW MIRRORS, EIGHT FRONT AND FOUR REAR HALOGEN WORK LIGHTS AND CD RADIO WITH TWO SPEAKERS. NEW HIGH TRACTION FOOT STEPS, SEVERAL GRAB RAILS AND WIDE DOORS OFFER COMFORTABLE ACCESS FROM EITHER SIDE.



Zetor **THREE-POINT HITCH AND HYDRAULIC SYSTEM**

Standard telescopic lower link ends facilitate the implement hook up. □

RUGGED AND SIMPLE OPEN CENTER HYDRAULIC SYSTEM WITH ELECTRONIC THREE-POINT HITCH CONTROLS IS EXTREMELY RELIABLE AND VERY EASY TO SERVICE. IT HAS BEEN REFINED FOR ALMOST TWO DECADES AND HAS BECOME THE MOST ADVANCED HYDRAULIC SYSTEM WE EVER BUILT. THE NEW HITCHTRONIC SOFTWARE IS UNIQUE TO ZETOR FORTERRA AND FOTRERRA HSX SERIES.

HEAVY-DUTY 3-POINT HITCH HAS LIFTING CAPACITY OF 15,500 LB. (FORTERRA SERIES) OR 18,700 LB. (FORTERRA HSX), MORE THAN EVEN THE HEAVIEST IMPLEMENTS WILL EVER REQUIRE. THE STANDARD HITCH DAMPENING FUNCTION REDUCES SHOCKS DURING TRANSPORT OF RAISED IMPLEMENTS. THE CAB PROVIDES GOOD VISIBILITY OF 3-POINT HITCH AND OF THE DRAWBAR FROM THE THE SEAT. EXTERNAL THREE-POINT HITCH PUSH-BUTTON CONTROLS ON BOTH REAR FENDERS ARE STANDARD.



Telescopic sway bars are standard. Fixed or floating positions of lower links are possible with both Cat.I and Cat.II implements. The sway bars also have built-in threaded elements. These make it possible to remove any lateral slack of the lower links, for precision guidance of three-point mounted implements.



Alternatively, lower links and top link with hooks are available. These can be coupled and de-coupled from driver's seat.

To the right of the seat, at operator's fingertips, are all hydraulic control levers:

- Electronic three-point hitch controls
- Three levers for remote sets

Zetor has been pioneering use of electronic hitch controls for almost 25 years. The latest generation of three-point hitch electronic controls is extremely reliable, maintenance-free, very simple and easy to use, yet rich in features. Zetor Forterra and Forterra HSX series are the first tractors in the world with the new HitchTronic adaptive software for the proven Bosch three-point hitch system. The new system constantly analyses the soil resistance during tillage operations and automatically selects the optimum combination of position and draft controls. Field tests show that even less experienced operators will easily achieve high quality results while increasing productivity by 5% and saving typically 6 % of fuel over manually controlled systems. Simply set the tillage depth on the main control knob and let the system do the rest.



Newly designed live hydraulic pump has 20 GPM capacity. The Forterra hydraulic system has been designed to deliver high pressure, to meet demanding applications of the future. In addition to the main hydraulic pump, unlike many competitors, all Forterra tractors have a separate, dedicated 7 GPM pump and hydraulic system for steering. This makes all the 20 gallons of oil supplied by the main hydraulic pump available for the 3-point hitch, for the front loader or the remotes, all the time. The main hydraulic pump, hydraulic filters, the steering pump, and even the transmission pump (controlling the power shift, power shuttle and PTO clutch) are all externally mounted so servicing is a matter of minutes, if it ever becomes necessary.

The standard three sets of remotes are very versatile and rich in features. All have quick connect (push-pull) couplers. All three remote sets have floating positions. One of the remote sets has detented pressure positions with automatic release. One of the ports is equipped with check valve, which avoids any drift caused by oil leaking back into the tractor. A direct return (zero pressure) coupler is also standard (required by most hydraulic motors).

Multiple top link mounting points allow the operator to customize the implement geometry for easier penetration into the soil.

The heavy duty drawbar is available in two versions with varying height adjustment range, to meet the needs of every farmer and any application.

Zetor **SYSTEM**

THE NEW HEAVY DUTY ZETOR SYSTEM ZX SERIES LOADERS HAVE BEEN DESIGNED WITHOUT ANY COMPROMISES FOR PROFESSIONAL USERS. HEAVY GAUGE HIGH STRENGTH STEEL AND HARDENED LARGE SIZE PINS ARE USED THROUGHOUT. ADVANCED HYDRAULIC COMPONENTS AND CONTROLS ALLOW EFFICIENT AND PRECISE CONTROL.

ZX loaders are designed to deliver the best possible productivity and user benefits over a long period of time. Numerous unique features combine to give the ZX loaders their renowned reliability and service life. Consistently heavy-duty design details together with robust construction and close quality inspections are basic, obvious examples of such attention to detail.

The advantages of choosing ZX loaders are endless, with forward vision, ease and comfort evident in all applications. Thanks to these well thought-out solutions, the ergonomics ensure maximum Efficiency.



Unique, very low location of the torque tube improves bucket visibility.



All pins run in special multi-layer lubricated replaceable bushings so no wear of the boom material occurs.



The connection between the torque tube and the beams is critical for any loader rigidity and durability. That is why we made ours extremely strong.



Heavy duty mechanical joystick can be quickly tilted to allow unrestricted access to the seat from the right side.

Alternatively, an electronic joystick mounted directly on the seat on a flexible mount is available, representing the ultimate in loader control precision and comfort.



The quick couplers on both the loader and optional 3rd function valve (shown here) are a special design, connecting and disconnecting under pressure without oil spills.



Special linkage between the bucket and the loader allows for unusually far rollback and dump angles through the entire lift range, preventing spillage of liquid materials and allowing quick and reliable dump.



Special design of the tool carrier allows good visibility of bucket hooks from the cab when attaching it to the loader. Just drive in, roll the bucket back and bucket automatically latches in. An indicator on the tool carrier confirms a safe engagement.



SPECIFICATION **FORTERRA**

MODEL	Units	100	110	120	130	140
ENGINE						
Type		4-cylinder, 254 cu.in turbocharged diesel, water cooled, wet sleeves, 4 valves per cylinder				
Maximum engine gross horsepower	HP	98	108	118	128	137
Maximum engine net horsepower	HP	92	102	112	122	131
Rated Speed	rpm	2200				
PTO	HP	81	91	100	108	116
Alternator capacity	Amp	100				
Cold weather starting system		Glow plug in each cylinder				
Standard fuel tank capacity	gal	48				
CLUTCH						
Type		Dry, 14" dia., heavy duty cerametallic disc				
Clutch control		Hydraulic, self-adjusting				
TRANSMISSION						
Type		Fully synchronized with synchro-shuttle and three-speed power shift				
Forward/reverse gears		24/18				
P.T.O. SHAFT						
Type	rpm	Independent 540/540E/1000/100E, electro-hydraulic speed change				
BRAKES						
Type		Wet disc brake				
Service brake control		Hydraulic				
Parking brake control		Mechanical				
HYDRAULIC SYSTEM						
Type		Open center; Electronic control				
Flow @ pressure at remotes		20 gpm @ 2,900 psi				
Total hydraulic flow	gpm	27				
Three-point hitch		Category II or Category IIIN				
Function		Position, draft, mixed, AHC (Adaptive Hitch Control)				
Lifting force @ end of lower links	lbs.	15,500				
Lifting force @ 24" frame	lbs.	13,200				
Standard remote outlets	sets	3				
MAIN DIMENSIONS						
Wheelbase	in.	98				
Length	in.	170				
Width (cab foot steps)	in.	87				
Height to top of cab	in.	109				
Ground clearance without hitch	in.	19				
Standard front tires		14,9 R24				
Optional front tires (on welded disc wheels)		420/70R24				
Standard rear tires		18,4 R38		520/70 R38		
Optional rear tires (on welded disc wheels):		600/65R38				
Wheel Track – Front	in.	67.5 – 80				
Wheel Track – Rear	in.	62 – 71				
Turning radius (w/o brakes)	ft.	12.3				
WEIGHT, w/o weights	lbs.	10,680	10,700	10,710	10,780	10,790

OPTIONS

- Engine block heater
- Front and rear weights
- Roof beacons (quick-attach on flexible mount)
- Cab spring suspension
- Front PTO and front 3-point hitch (with quick-attach lower links, compatible with ZX4.1 front loader)
- Dynamic front fenders
- Fuel tank shield

STANDARD EQUIPMENT

- Power rear differential lock and front wheel drive engagement
- Power rear differential lock and front wheel drive engagement
- Limited slip front differential
- Four-speed PTO (540/540E/1000/1000E)
- Telescopic sway bars with fine adjustment
- Telescopic lower links or lower links with Euro-hooks
- Air suspension seat
- Instructional seat
- Tilt and telescoping steering wheel
- Tinted windows
- Front and rear wipers
- Windshield washer
- Heated rear window
- Heated rear view mirrors
- Roller sun blind
- Sun window
- Multi-function digital display dashboard
- Front fenders
- Three sets of remote outlets (one set with detented pressure positions, built-in check valve and automatic pressure release)
- Air conditioning
- Eight front and four rear halogen lights
- CD radio with two speakers and remote control

SPEED CHART OF ZETOR FORTERRA

AT ENGINE SPEED 2200 (mph)

ROAD SPEEDS		FORWARD	REVERSE	REDUCED SPEEDS	
speed gear	multiplier stage	18,4 – 38		18,4 – 38	
4	H	23.68		5.76	
	M	20.50		4.93	
	L	17.68		4.25	
3	H	16.56	19.12	4.00	4.62
	M	14.31	16.56	3.43	4.00
	L	12.37	14.31	3.00	3.43
2	H	10.93	12.62	2.62	3.06
	M	9.43	10.93	2.25	2.62
	L	8.18	9.43	1.93	2.31
1	H	7.06	8.18	1.68	2.00
	M	6.12	7.06	1.50	1.68
	L	5.31	6.11	1.25	1.43

Available bucket sizes: 73 in., 84 in., 94 in. Standard features: Quick-attach loader boom; Quick-attach buckets; Mechanical self-leveling; Power-beyond hydraulic valve, cable-controlled by heavy duty joystick; Full length mounting frames; Replaceable bushings at all pivot points.

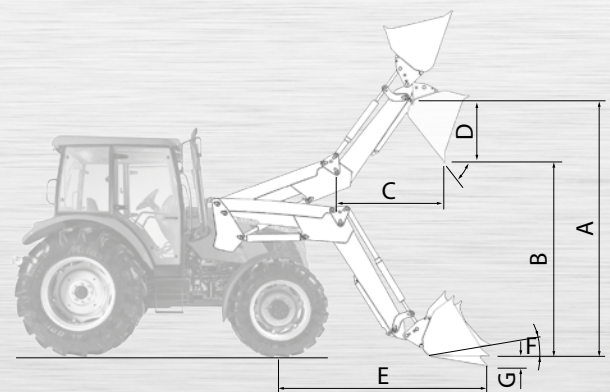
Options: Shock absorber with shutoff valve; Third hydraulic function to control attachments with their own cylinders by a push button in the joystick.

All tools are interchangeable with tools used on all other Zetor system loaders. Sets of blank plates are available to make non-Zetor attachments compatible with Zetor „Euro“ quick-attach system. A wide range of tools is available.

ZETOR SYSTEM ZX 4.1 FRONT END LOADER

A	Maximum Lift Height (in.)	158
F	Bucket Rollback Angle (deg)	45
Lift Capacity to Full Height (lb.): - at pivot points		4,530
- 31.5" ahead of pivot		3,790
Breakout Force (lb.): - at pivot points		5,545
- 31.5" ahead of pivot		4,560
Raising Time w/20 gpm Pump (sec)		5

Specifications measured on model Forterra 110 with tires 14.9R-24 and 18.4R-38.
*) Bucket at 45 deg. angle



SPECIFICATION FORTERRA HSX

MODEL	Units	100	110	120	130	140
ENGINE						
Type		4-cylinder, 254 cu.in turbocharged diesel, water cooled, wet sleeves, 4 valves per cylinder				
Maximum engine gross horsepower	HP	98	108	118	128	137
Maximum engine net horsepower	HP	92	102	112	122	131
Rated Speed	rpm	2200				
PTO	HP	81	91	100	108	116
Alternator capacity	Amp	100				
Cold weather starting system		Glow plug in each cylinder				
Standard fuel tank capacity	gal	63				
CLUTCH						
Type		Wet multi-disc clutch				
TRANSMISSION						
Type		Fully synchronized with electro-hydraulic power shuttle and three speed power shift with manual or automatic shifting				
Forward/reverse gears		30/30				
P.T.O. SHAFT						
Type	rpm	Independent 540/540E/1000/1000E, electro-hydraulic speed change				
BRAKES						
Type		Wet disc brake				
Service brake control		Hydraulic				
Parking brake control		Mechanical				
HYDRAULIC SYSTEM						
Type		Open center; Electronic control				
Flow @ pressure at remotes		20 gpm @ 2,900 psi				
Total hydraulic flow	gpm	27				
Three-point hitch		Category II/ III N				
Function		Position, draft, mixed, AHC (Adaptive Hitch Control)				
Lifting force @ end of lower links	lbs.	18,700				
Lifting force @ 24" frame	lbs.	16,200				
Standard remote outlets	sets	3				
MAIN DIMENSIONS						
Wheelbase	in.	102				
Length	in.	175				
Width (cab foot steps)	in.	87				
Height to top of cab	in.	109				
Ground clearance without hitch	in.	19				
Standard front tires		14,9 R24				
Optional front tires (on welded disc wheels)		420/70R24				
Standard rear tires		18,4 R38		520/70 R38		
Optional rear tires (on welded disc wheels):		600/65R38				
Wheel Track – Front	in.	67.5 – 80				
Wheel Track – Rear	in.	62 – 71				
Turning radius (w/o brakes)	ft.	12.3				
WEIGHT, w/o weights	lbs.	10,690	10,710	10,720	10,790	10,800

OPTIONS

- Engine block heater
- Front and rear weights
- Roof beacons (quick-attach on flexible mount)
- Cab spring suspension
- Front PTO and front 3-point hitch (with quick-attach lower links, compatible with ZX4.1 front loader)
- Dynamic front fenders
- Fuel tank shield

STANDARD EQUIPMENT

- Power rear differential lock and front wheel drive engagement
- Limited slip front differential
- Four-speed PTO (540/540E/1000/1000E)
- Telescopic sway bars with fine adjustment
- Telescopic lower links or lower links with Euro-hooks
- Air suspension seat
- Instructional seat
- Tilt and telescoping steering wheel
- Tinted windows
- Front and rear wipers
- Windshield washer
- Heated rear window
- Heated rear view mirrors
- Roller sun blind
- Sun window
- Multi-function digital display dashboard
- Front fenders
- Three sets of remote outlets (one set with detented pressure positions, built-in check valve and automatic pressure release)
- Air conditioning
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SPEED CHART OF ZETOR FORTERRA HSX

AT ENGINE SPEED 2200 (mph)

ROAD SPEEDS

speed gear	multiplier stage	FORWARD	REVERSE
		18.4 – 38	
5	H	23.68	27.43
	M	20.50	23.68
	L	17.68	20.50
4	H	16.56	19.12
	M	14.31	16.56
	L	12.37	14.31
3	H	10.93	12.60
	M	9.43	10.93
	L	13.1	9.43
2	H	8.18	8.81
	M	6.26	7.62
	L	5.70	6.32
1	H	5.58	6.43
	M	4.82	5.57
	L	4.16	4.81

REDUCED SPEEDS

speed gear	multiplier stage	FORWARD	REVERSE
		18,4 – 38	
5	H	5.75	6.62
	M	4.93	5.75
	L	4.31	4.93
4	H	4.00	4.62
	M	3.43	4.00
	L	3.00	3.43
3	H	2.62	3.06
	M	2.25	2.62
	L	2.00	2.31
2	H	1.87	2.12
	M	1.56	1.81
	L	1.37	1.56
1	H	1.31	1.56
	M	1.18	1.31
	L	1.00	1.18

Available bucket sizes: 73 in., 84 in., 94 in. Standard features: Quick-attach loader boom; Quick-attach buckets; Mechanical self-leveling; Power-beyond hydraulic valve, cable-controlled by heavy duty joystick; Full length mounting frames; Replaceable bushings at all pivot points.

Options: Shock absorber with shutoff valve; Third hydraulic function to control attachments with their own cylinders by a push button in the joystick.

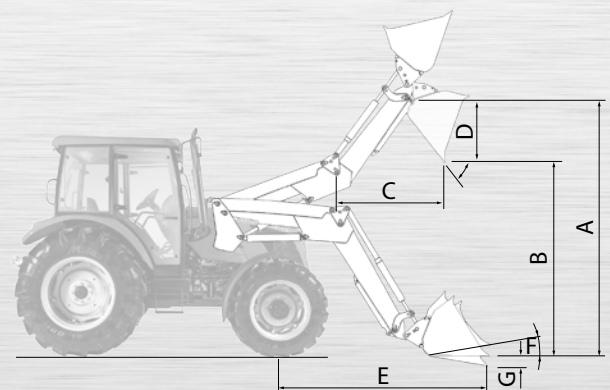
All tools are interchangeable with tools used on all other Zetor system loaders. Sets of blank plates are available to make non-Zetor attachments compatible with Zetor „Euro“ quick-attach system. A wide range of tools is available.

ZETOR SYSTEM ZX4.1 FRONT END LOADER

A	Maximum Lift Height (in.)	158
F	Bucket Rollback Angle (deg)	45
Lift Capacity to Full Height (lb.): - at pivot points		4,530
- 31.5" ahead of pivot		3,790
Breakout Force (lb.): - at pivot points		5,545
- 31.5" ahead of pivot		4,560
Raising Time w/20 gpm Pump (sec)		5

Specifications measured on model Forterra 110 with tires 14.9R-24 and 18.4R-38.

*) Bucket at 45 deg. angle





Zetor **PARTS AND WARRANTY**

To ensure the full productivity of your investment, all Zetor tractors are supported by a full line of parts, constantly in stock in the main parts warehouse in Jacksonville, Florida. This applies not only to current models, but to any Zetor model ever sold in U.S., even those sold 30 or more years ago. Zetor parts system means that our customers will always get original, genuine parts at reasonable prices. Every business day, replacement parts are shipped within 6 hours after an order has been placed. Standard delivery is 1 to 3 business days (depending on destination) at low ground rates (coast-to-coast, U.S. and Canada). Overnight delivery is, of course, also available, coast-to-coast. And every Zetor is covered by five year limited warranty, with no deductibles. See one of the growing family of Zetor dealers and find out how affordable Zetor tractors are. You will be able to enjoy the Forterra advanced features, and still save thousands of dollars, both in purchase price and in fuel savings.

ZETOR TRACTORS



Founded in 1946, Zetor has grown into one of the best known tractor manufacturers in Europe. More than a million Zetor tractors are in use in almost 100 countries around the world. For more than 40 years, Zetor has been present in north America and over 30,000 have been sold here. The quality of Zetor tractors is assured by designing, manufacturing and assembling most components at the main Zetor plant in Brno, Czech Republic, a country with 100+ year tradition of advanced engineering. Zetor strategy has always been based on practical innovation and gradual introduction of new features, only after they have proven themselves. Zetor customers are demanding and value conscious professionals who want well-built tractors at affordable prices, backed by quality services. A thorough comparison of competitive brands cost-feature relation shows that Zetor is a leader in providing value for the money.

www.zetorna.com

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