







THE STRONGEST AND BEST-EQUIPPED TRACTORS IN THE ZETOR PORTFOLIO

	F		F HSX		F HD
Max. Power (kW)	100.2	=	100.2	\triangle	108.2
Max. Torque (Nm)	581	=	581	∇	589
Transmission	Mechanical 4-stage with 3-stage multiplier, reverse synchronized clutch	Ø	5-stage with automatic 3-stage multiplier, reverse wet two-disk clutch	=	5-stage with automatic 3-stage multiplier, reverse wet two-disk clutch
Number of Gears	24/18	\triangle	30/30	=	30/30
Three-Point Hitch	Category II Optional category III N	=	Category II Optional category III N	\triangleright	Category III
Maximum Lift Force (kN)	77	\triangle	85	=	85
Hydraulic Pump Capacity (l/min)	70	=	70	\triangle	85
Outer Circuits Tapping	6+1	=	6+1	\triangleright	8+1
Multiple-Function Control Panel	-	×	-	∇	Standard
Max. Front Ballast (kg)	700	=	700	∇	900
Tank Capacity (l)	180	\triangle	220	=	220
Wheelbase (mm)	2,490	\triangleright	2,590	\triangleright	2,720
Max. Operating Weight (kg)	4,800	\triangleright	4,900	\triangleright	5,500
Spring-Mounted Front Axle	-	×	-	\triangleright	Yes



PERFORMANCE

Forterra tractors rank among the most powerful in the ZETOR TRACTORS portfolio. The combination of powerful engine and higher tractor weight ensures maximum power in all conditions.

ENDURANCE

Great emphasis is put on simple, smart and effective design of Forterra models. Our tractors have a simple design for simple maintenance and serviceability.

TOTAL COST OF OWNERSHIP

With in-house 16-valve engine manufacture, Forterra models are very efficient as to fuel and oil consumption, and affordable spare parts make their operating costs hard to beat.

Forterra

The Zetor Forterra series offers engine powers of up to 140 HP, which makes it a very strong alternative to rival six-cylinder tractors. Construction of Forterra tractors has been adapted accordingly – these are robust, heavyweight tractors. Due to very good torque parameters, they are appreciated as hard workers and excellent value for money. Forterra tractors are unbeatable in terms of operational costs.

Forterra HSX

Forterra HSX is equipped with the most up-to-date technology: the latest Power-shuttle generation, a new five-speed gearbox with three-stage multiplier, a more powerful hydraulic system, HitchTronic three-point hitch controls, LCD display, safety driver's seat and more. This is the ultimate package of performance, endurance and total cost of ownership from Zetor.

Forterra HD

The most powerful and best equipped tractors in the Zetor portfolio. Reinforced axle drive, larger rear axle, an extended wheelbase for greater stability, with a spring-mounted front axle and cab. These combine to make Forterra HD a strong partner for high productivity.

- SPRING-MOUNTED FRONT AXLE AND CAB More comfortable drive
- NEW RIGHT-HAND PANEL WITH ELECTRONIC CONTROL

Simple and easy control, more comfort

- INCREASED GEAR PUMP CAPACITY
 Greater variety of implements
- ERGONOMIC ACCELERATOR PEDAL Comfortable control
- REINFORCED AXLE DRIVE AND LONGER WHEELBASE

Handles heavy loads





ZETOR TRACTORS ARE FITTED WITH ENGINES DESIGNED IN-HOUSE.

The exceptional popularity of Zetor engines is based on low fuel consumption, high reliability and simple design – these reward the customer not only with low purchase costs, but also low operating costs and great reliability. The 16-valve engines obtained one of the best evaluations in a stringent test carried out by the German Agricultural Association (DLG). Tractors with these engines therefore rank among the most economical in the market.

ZETOR TRACTORS a.s. manufactures the largest number of compression ignition engines in the Czech Republic. This manufacturing tradition dates back to the 1920s.





Proven by generations of users

- IN-HOUSE DEVELOPMENT AND MANUFACTURE
 - guaranteed precise workmanship using quality materials
- LOW CONSUMPTION ensures a very low operating fluid consumption
- MECHANICAL INJECTION PUMP reliable and trouble-free operation, long service life
- TWO BALANCE SHAFTS reduce vibrations and make the engine run more smoothly
- PRESSURIZED OIL-COOLED PISTON CROWNS

increase combustion efficiency and prolong engine life

- OPTIONAL COOLANT HEATER reduces warm-up time, thus saving fuel
- GLOW PLUG IN EVERY CYLINDER
 (direct combustion engine pre-heating) –
 quarantees reliable starting at low temperatures

ENVIRONMENTALLY FRIENDLY OPERATION

Zetor tractors have a particulate filter in order to meet the most stringent emission limits

No power boost restricted only to certain conditions

Zetor tractors do not use power boost, i.e. power available only under certain conditions. Zetor engines have full power available regardless of what speed the tractor is travelling or whether the PTO has been engaged.

Excellent torque characteristics give the engines resilience and the capability to work at low speeds with heavy loads, without the need for frequent shifting.





FORTERRA

The classic, four-speed, fully synchronized gearbox in Forterra tractors, supplemented with two speed ranges and a three-stage multiplier (24/18), features larger gears and bearings for a good service life. Gears are suitably spaced with seven speeds available within the operating range from 6–12 kph.

FORTERRA HSX / HD

A five-speed gearbox with two driving speed ranges, a three-stage multiplier and a reverser under load (30/30) satisfies the demands of users requiring a higher level of comfort. The pair of wet disk clutches is reliable with smooth reversing.

The working range offers nine speeds.



Perfect synchronization of power and accuracy

- IN-HOUSE PRODUCTION control and enforcement of high quality standards
- SERVICE LIFE
 high-quality and durable materials ensure long
 service life
- HIGHLY CONFIGURABLE solution tailored to customer's needs
- GEAR RATIO
 Optimizes power to weight ratio
- COMFORT simple and easy shifting
- PTO GROUND SPEED standard offer

PT0

The rear PTO speed is completely independent of the travelling speed, and depends on the engine rpm. The tractor has the following rear PTO speed combinations: 540 / 540E / 1,000 / and 1,000E.

PTO CLUTCH

The wet plate clutch in an oil bath provides long service life. Modulated switching ensures that attached implements start up smoothly.

NEW FORTERRA HD

The rear PTO clutch has feedback-controlled starting that ensures easy, comfortable starting and a longer life for the clutch.





Two auxiliary hydraulic cylinders ensure uniform tractor loading and maximum lifting force, up to 77 kN for Forterra and up to 85 kN for Forterra HSX.

Forterra HD offers four auxiliary hydraulic quick couplers with electro-hydraulic control. In combination with Category III hitches, you can enjoy a wide selection of usable implements. The tractor also has programmable headland turning sequences to simplify and improve field work.

- OPTION TO USE HEAVY IMPLEMENTS, MAXIMUM HYDRAULIC LIFTING CAPACITY UP TO: F - 7,700 KG HSX/HD - 8,500 KG
- HIGH PRODUCTIVITY THANKS TO HITCHTRONIC AUTOMATIC CONTROL OF THREE-POINT HITCH
- LONG LIFE WITH UNEVEN THREE-POINT HITCH LOAD



High efficiency of work



Zetor was the first to offer the HITCHTRONIC function – a subsequent winner of many awards

The Bosch electro-hydraulic system is fitted with the HitchTronic function, a unique system to automatically control the rear three-point hitch. When using this system, there is no need to set up types of regulation or combinations.

Only the implement working depth is set. When the implement attached to the rear three-point hitch reaches the set depth, the control system measures the soil resistance, and this value is used as the initial value for automatic hitch control.





Convenience, comfort and user-friendly, ergonomic design – these are the main features of Forterra cabs. Every item has been designed with specific regard to tractor operation, to increase maximum utility and comfort in all terrains and environments.



The Zetor seat ensures long life, ergonomics and comfortable sitting.



MULTI-FUNCTIONAL PANEL

The major innovation for the Forterra HD series is the ergonomic, multifunctional panel with various controls. Everything is intuitive and controls are very comfortable and easy to use. Thanks to their position on the right, the driver has everything at hand, from controlling the hydraulics to activating automatic headland turning.



Comfort and ergonomics



SPRING-MOUNTED CABAll Forterra models have the cab springmounting system to maximize operator's comfort.



SPRING-MOUNTED FRONT DRIVEN AXLE
The front driven axle of the Forterra HD
models can be optionally mounted on
springs. In combination with the springmounted cab, this offers a smooth
and comfortable drive.





Only originals fit perfectly

Respect your tractor's identity

ZETOR TRACTORS a.s. sells its original spare parts world-wide, for both warranty and post-warranty service of Zetor tractors, through the sales network of our contracted representatives.

The quality of original spare parts is checked constantly throughout production and matches the quality of parts used for assembling new products.

Zetor spare parts achieve high quality at a reasonable price.

To maintain a long tractor life, we recommend using only original spare parts.

Original spare parts also incorporate all improvements and innovations. This guarantees that the operational qualities and utility of the repaired machine are fully restored. The originality of supplied spare parts is secured by packing them in original packaging with a unique identification number.

For more information please contact your authorized Zetor dealer.





Developed and manufactured in the heart of Europe

More than a million customers can't be wrong

ZETOR HAS BEEN PRODUCING TRACTORS SINCE 1946. IN THE COURSE OF ITS EXISTENCE, IT HAS PRODUCED MORE THAN 1.2 MILLION TRACTORS, MOST OF WHICH HAVE BEEN EXPORTED TO MORE THAN 90 COUNTRIES AROUND THE WORLD.

PRODUCTION

Production of Zetor tractors and engines is concentrated in Central Europe, in the Czech Republic.

Having an in-house development and production centre helps ensure that the products we offer are of the very highest quality, and supports the introduction of many innovations.

Product assembly effectively combines and balances the mix of parts made in our own facilities and those parts and units purchased from specialist suppliers.

DEVELOPMENT

The Engineering Department is Zetor's longstanding permanent research, development and testing facility.

It comprises a team of development engineers engaged in high-level specialist research, which draws on a wide knowledge base and professional skills, and is supported by state-of-the-art technologies.

The department provides comprehensive, systematic research and development of the production programme – from concept, design, construction, the production of functional samples and prototypes, right up to testing tractors and motors in the laboratory and in the field.



		F	ORTERR	RA			FOR	FORTERRA HD							
MODEL	100	110	120	130	140	100	110	120	130	140	130	140	150		
				ı	ENGINE										
Stage III B Type	1006	1306	1406	1506	1606	1006	1306	1406	1506	1606	1506	1606	171		
Homologated Power (kW) (2000/25/EC)	70.3	78.4	86.2	93.2	100.2	70.3	78.4	86.2	93.2	100.2	93.2	100.2	108.:		
Homologated Power (hP) (2000/25/EC)	96	106	117	127	136	96	106	117	127	136	127	136	147		
Rated Speed (rpm)	2,200														
Number of Cylinders		4													
Number of Valves		16													
Aspiration		Turbocharged													
Bore/Stroke (mm)		105/120													
Displacement (cm³)		4,156													
Cooling		Viscous fan clutch													
Max. Torque (Nm) (2000/25/EC)	429	461	493	551	581	429	461	493	551	581	551	581	589		
Improvement of Torque (%) [ECE R24]	46	40	37	41	38	46	40	37	41	38	41	38	30		
				TRA	NSMISSI	0N									
Туре	Mechanical with 3-stage multiplier, reversing 5-stage with auto									omatic 3-stage multiplier					
Reverser	<u>-</u>							Under load at 10 kph							
Shifting						Fully synchronized									
Number of Gears (F/R)			24/18					30/30							
Speed (kph)							40								
					РТ0										
Туре					Indep	endent,	multi-pl	ate PTO	clutch						
Rear PTO Revolutions				540/54	0E/1,000	/1,000E,	optiona	l 540/1,0	000 + dep	pendent					
Front PTO Revolutions							1,000								
Max. Power of Front PTO (kW)		Power transmission													
Max. Power of Front PTO (KW)	Power transmission up to 60 kW										up to 90 kW				
					DRAULIC										
Туре			Во	sch elec	tro-hydr	aulics w	ith Hitch	Tronic, 2	2 auxilia	ry cylind	ers				
Three-Point Hitch	Category II, optional Category III N									Category III					
Control						E	Electroni	С							
Max. Lift Force (kN)	77							85							
Operating Pressure (MPa)		2	0		20+0,2										
Pump Capacity (l)	70									85 (gear) / 120 (axial					
Outer circuits (hydraulic quick couplers)	6+1 or 4+1										8+1				
	Mod	ular CBN	1 hitch s	vstem -	level quic	k-adiust	able with	automa	tic nozzl	e and hit	ch for or	e-axle tr	ailer		

	FORTERRA					FOR	TERRA	HSX		FORTERRA HD				
MODEL	100 110	120	130	140	100	110	120	130	140	130	140	150		
				CAB										
Spring-Mounting				Fixed	standar	d; suspe	nded op	tional						
Roof with Hatch	Standard													
Seat	Zetor seat with pneumatic / mechanical suspension													
Passenger Seat	Standard with safety belt													
Multi-Functional Panel					-					Standard				
Steering Wheel		Tiltable and telescopic												
Air-Conditioning	Manual (optional)	Manual Manual Manual (optional)						Manual						
		ОТ	HER SP	ECIFIC	ATIONS									
Orive System	4WD													
Front drive axle	Solid									Suspension				
Steering		Hydrostatic												
perating/Parking Brakes					Н	ydrostat	ic							
Front Brakes	By connecting front driven axle, using hydraulic clutch													
railer Brakes	Optional pneumatic 2+1													
Max. Front Ballast (kg)	800										900			
Max. Rear Wheel Ballast (kg)						472								
Tank Volume (l)		180			220									
ront Mudguards	Fixed / swivel									Swivel				
leated Mirrors, Rear Defroster	Standard													
Pre-Wiring for Radio	Standard													
			DIM	ENSION	NS						ACIDE -			
Operating Weight* (kg)	4	,300-4,800)			4,	400-4,9	00		4,800-5,500				
ength (mm)	5,000				5,000					5,766				
Vidth (mm)	2,270				2,430					2,550				
leight (mm)	2,870				2,775					2,803				
Vheelbase (mm)	2,490 2,590						2,720							
ront Wheels ** (mm)	380/85-R	24 (14,9 R	24) disc		380/85-R24 (14,9 R24) disc					380/85-R24 (14,9 R24) disc				
Rear Wheels ** (mm)	460/85-R	38 (18,4 R	38) disc		460/85-R38 (18,4 R38) disc					460/85-R38 (18,4 R38) disc				

^{*} Without front and rear ballast ** Standard wheels; for more options contact your dealer





My family. My work. My Zetor.





