

Zetor

PREMIUM HT AG SERIES



Tractor is Zetor
75th Anniversary

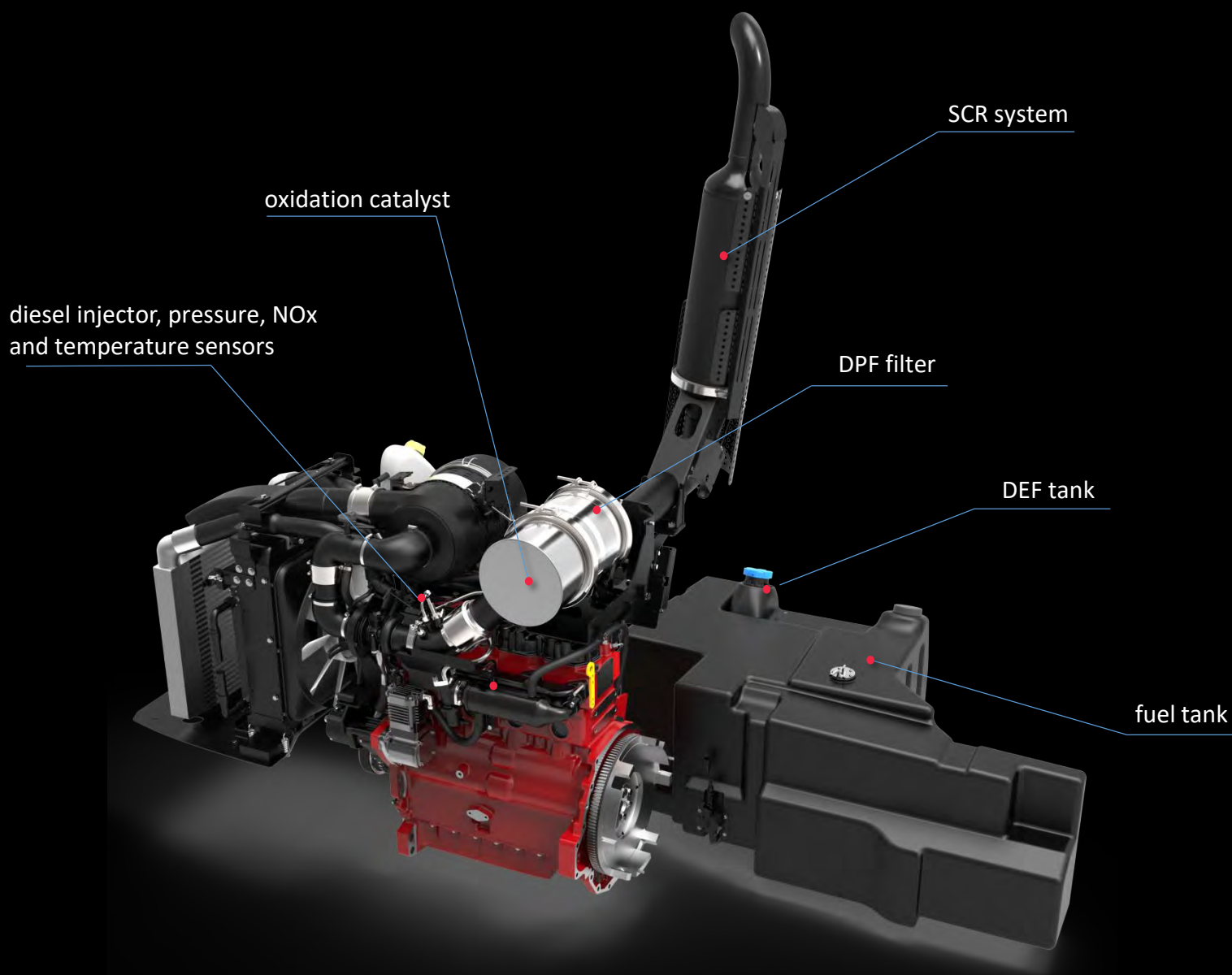
10 - Premium Models 100HP - 159HP



Zetor Emissions

Zetor T4F Engines are the most advanced four-cylinder series ever built.

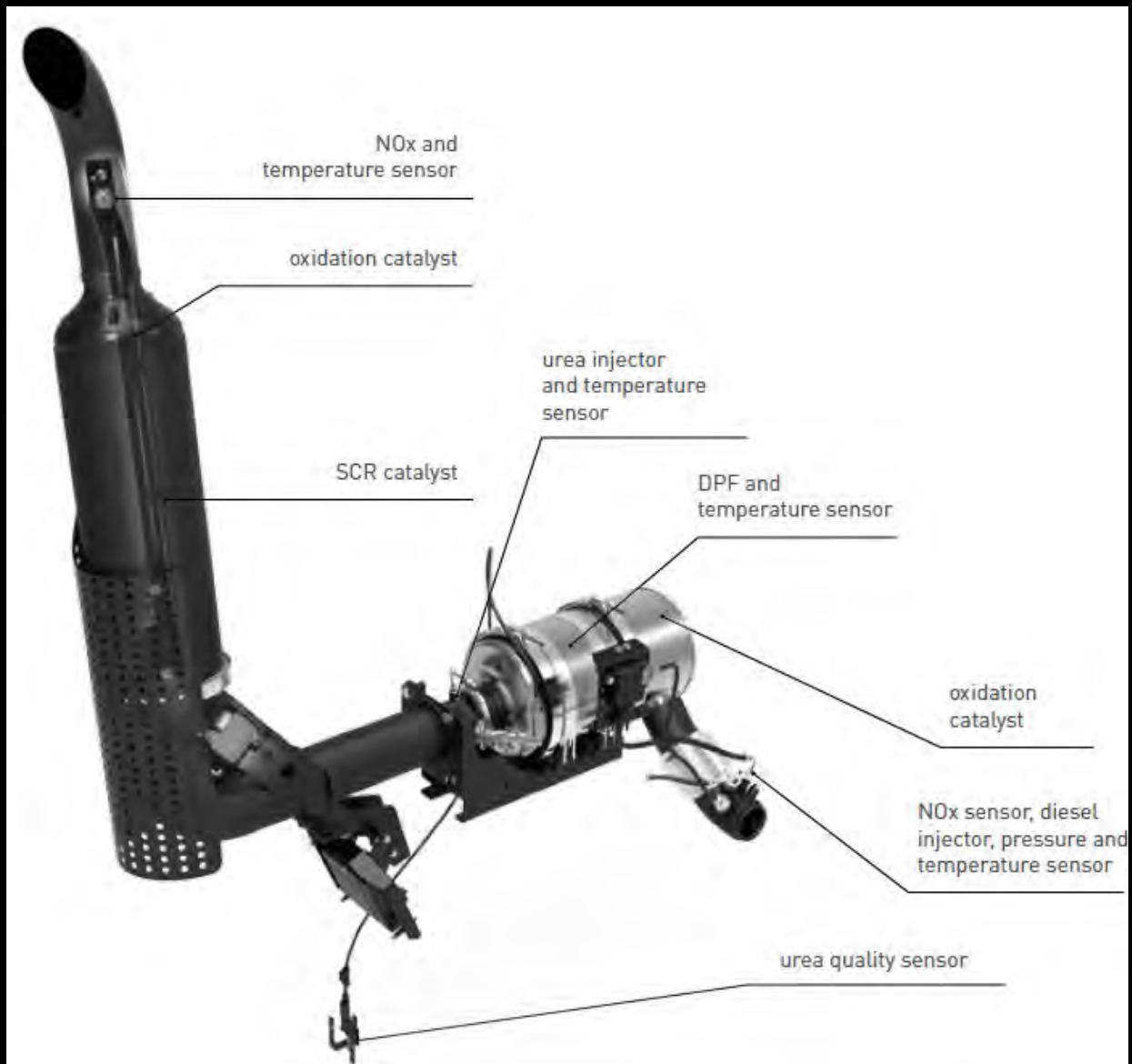
The objective was to introduce a high horsepower tractor with a four cylinder all mechanical engine offering fuel economy and lower operating costs that no six-cylinder tractor with the same power can match, while at the same time delivering the same durability and reliability that Zetor is known for 75 years running.



Zetor T4F engines do not use emission sensors, only the aftertreatment , DOC and catalyst have emission control sensors.

The fuel tank and Def urea tank is blended together as shown below.

The DPF filter combined with the muffler is under the hood.



EXHAUST GAS TREATMENT SYSTEM

The system of additional exhaust gas treatment consists of oxidation catalyst, DPF filter, and SCR (selective catalytic reduction) system. It has its own control unit.

Oxidation catalyst – is installed before the DPF filter. Its function is to reduce toxic CO to CO₂. It also partly reduces hydrocarbons (HC).

DPF – works towards cleaning exhaust gases – catching and burning soot. Modern engines produce soot with particles less than 0.005 mm in size, which are not visible to the eye, they cannot be caught in the upper air passages of humans, and can penetrate as far as the lungs, from where they cannot be removed and permanently act as carcinogens.

T4F engines are equipped with an **ACTIVE DPF** – in the case of regeneration, if the required working temperature is not achieved, the “assisted regeneration” is activated automatically by injecting diesel, via a separate injector, into the exhaust pipe before the oxidation catalyst.



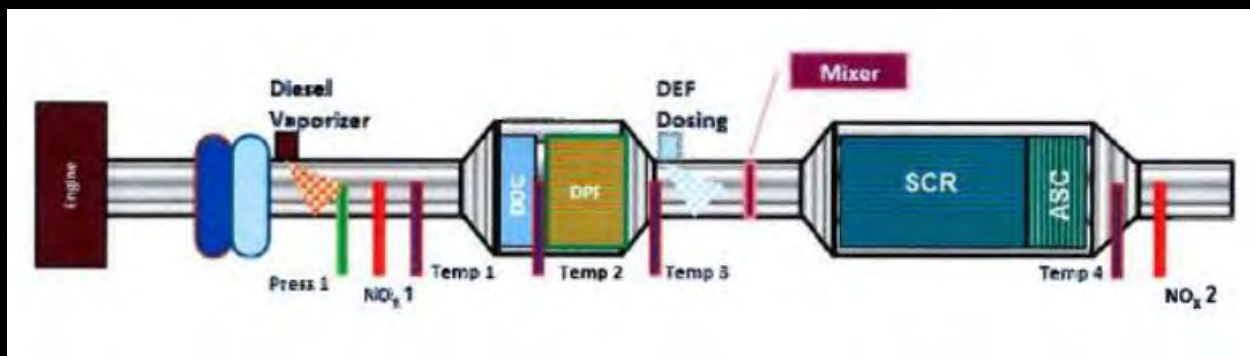
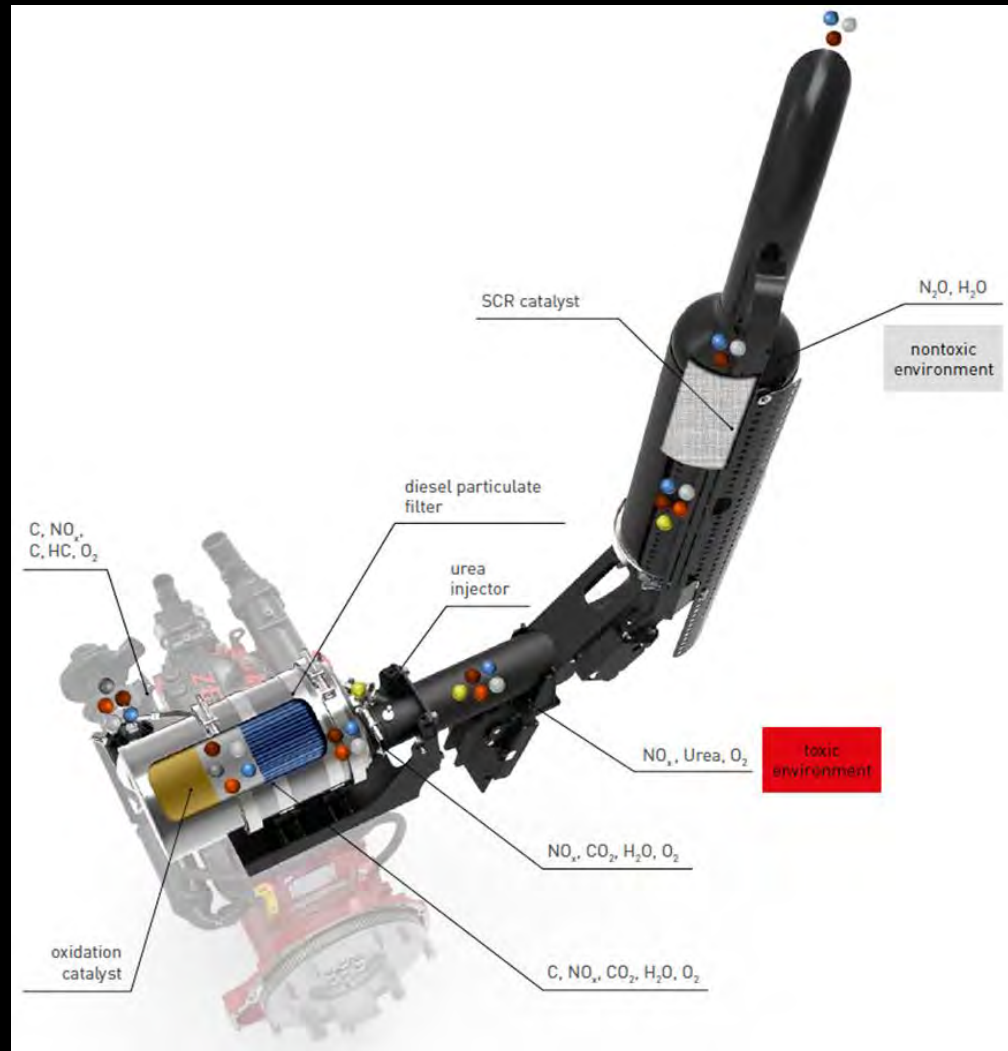
Zetor Emissions

SCR (selective catalytic reduction) designates the technology for cleaning the exhaust gases of combustion-ignition engines using urea.

The reducing agent DEF (urea) is injected into the exhaust pipe after the DPF filter body, then a catalytic reaction takes place in the exhaust system/SCR catalyst.

Nitrogen oxides (NOx) change into nitrogen and water.

The injection of DEF (urea) is controlled by the SCR's control unit.



Zetor

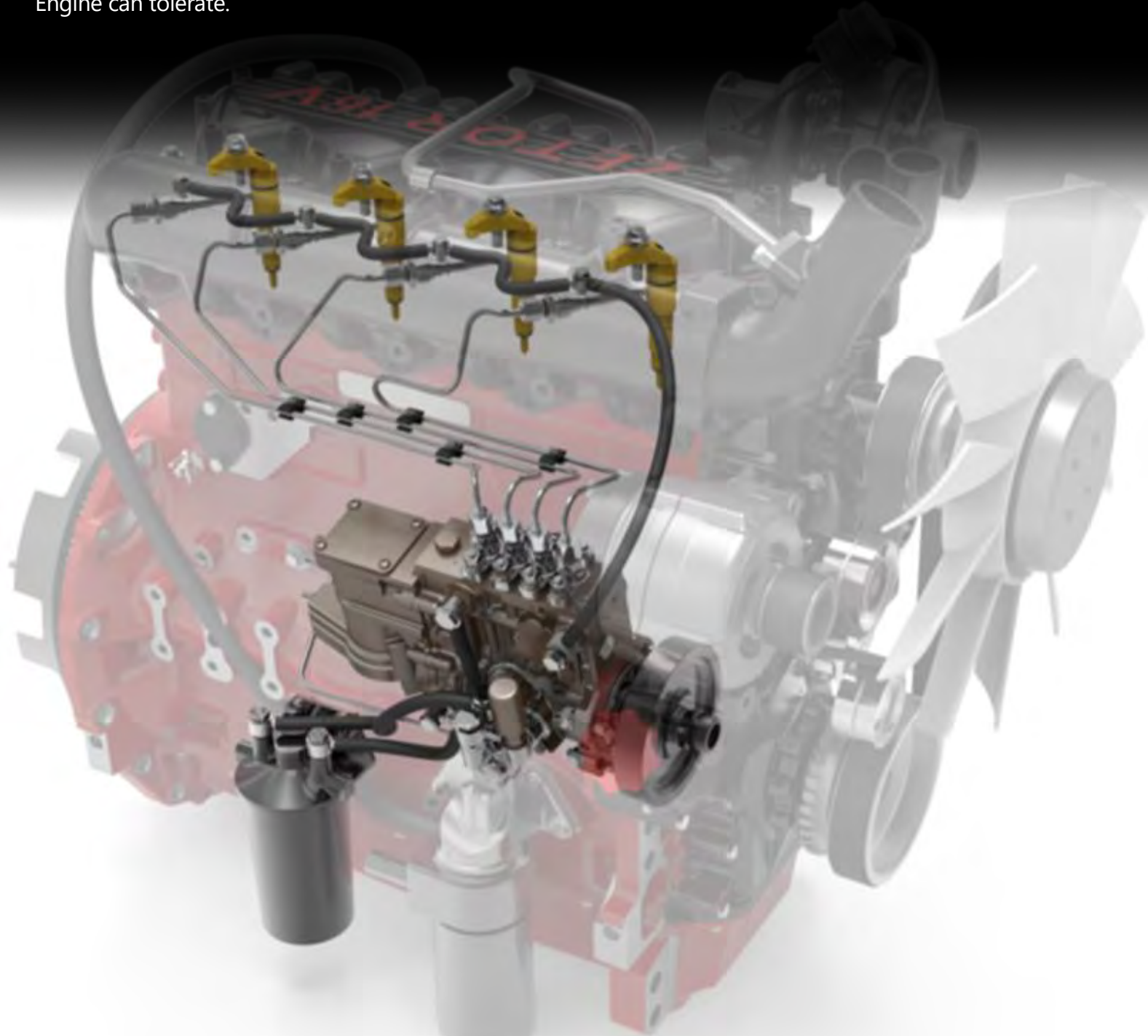
Zetor Manufactured Engines



Zetor's top of the line highly popular 4- cylinder Cast Iron block engine includes 16-valve technology, twin balancing shafts and wet cylinder liners providing a smooth operating engine.



Zetor is the only manufacturer producing T4F engines without common rail fuel injection. T4F is achieved with emission levels of the SCR + DPF + electronic engine regulation with a mechanical injection system and electronic governor. Higher resistance to lower fuel qualities (impurities, sulphur content) together with precise control and improved engine characteristics are all Key over what a High Pressure Common Rail Engine can tolerate.



Zetor Fuel Injection System

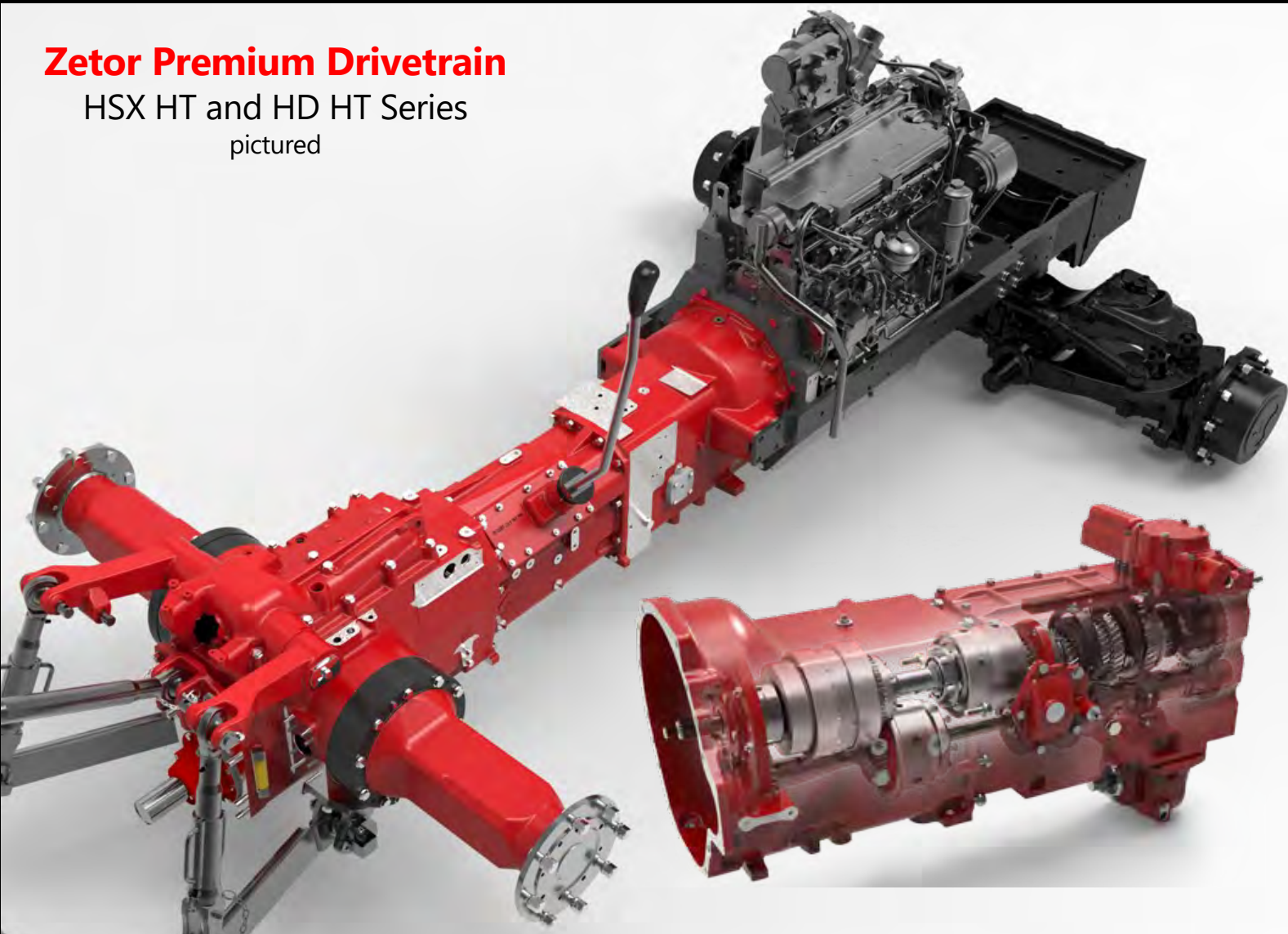
In-line mechanical injection pump with electronic governor. The conventional mechanical regulator is replaced with an electromagnetic controller. The system is controlled by an electronic control unit based on the information from the sensors of the crank shaft speed, suction air temperature and pressure, cooling fluid temperature and hand or foot throttle position.



Zetor Premium Drivetrain

HSX HT and HD HT Series

pictured



Both the HSX and HD Series tractors are equipped with the 30F/30R Semi-Powershift with a hydraulic Power Shuttle reverser reaching top road speeds of 27 MPH (44 Kph) and 13 working gear selections between 3.7 - 7.4 MPH (6 - 12 kph).

The reliable three-speed Powershift can be controlled either manually or automatically.

All models are equipped with multi-wet brake linings submerged in oil for long life and maximum stopping power.

The tractors feature a Premium 4-Speed PTO system, 540/540E/1000/1000E speeds. The 1000 shaft is interchangeable without any loss of oil and shipped in the tractor's toolbox inside the Cab. The standard 540E and 1000E PTO speeds combined with the high torque rise of the Zetor engine, allows for significant reduction in fuel usage.

The HD Series also features Headland Management that allows the PTO and front wheel drive be controlled automatically depending on the position of the three-point hitch and front wheel turning angle.



Zetor Premium Axles

Both the HSX & HD Series tractors are available with two front axle configurations.

The standard conventional front axle is center pivot from the front bolster and solid in design with outboard planetary final drive.

Zetor's Premium front axle offers a patented™ suspended center pivot front axle with two individual wish-bone construction half axles with independent hydraulic control cylinders and dampeners that maintains the tractor levelness throughout uneven terrain providing maximum wheel traction and limited slip as well as operator comfort. Both half axles also feature spring tension adjustment for multiple weight adjustments.



Shown in **red color** to illustrate design and lubrication points.



INDEPENDENT WHEEL SUSPENSION





SUSPENDED FRONT AXLE

The independently spring-suspended axle, type SI, structurally comprises two separate independently suspended half-axes.

The suspension and mounting of both wheels on these half-axes are made using pairs of trapezoidal arms, that is how both wheels are suspended separately, independently of one another.

This system is very close to the automotive suspension of wheels.

ECU controls the suspension.

Independent wheels suspension offers superb driving comfort.

100% pin/multiplate auto differential lock
(Also featured with Conventional Front Axle)

Automatic control of 4WD and differential lock according to driving speed, front wheel angle and position of rear three point hitch.

- Affects performance and productivity
- Comfortable steering, field and road comfort
- Allows the use of automatic (HLM) Headland Management System (HD only)
- Considerably more pulling power and less wheel slippage



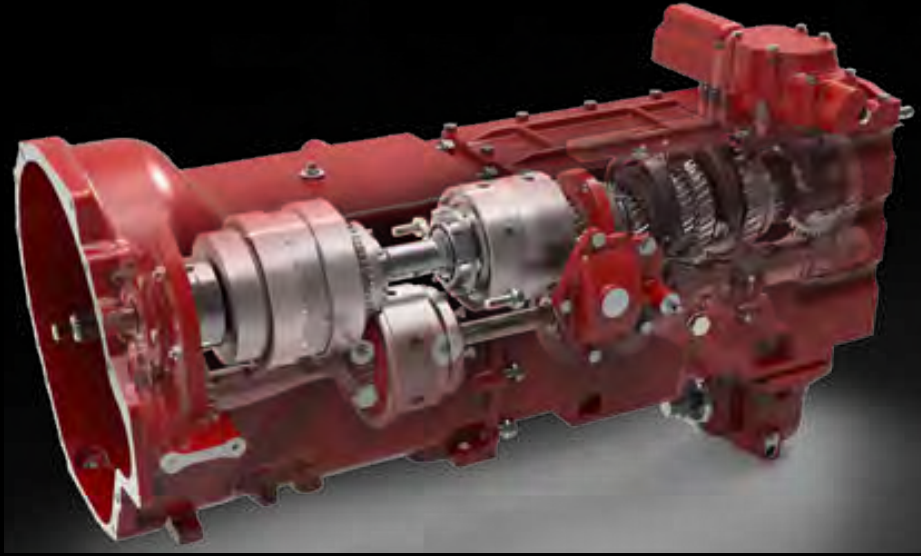
*Independent suspension
of both wheels (HSX & HD)*



*central axle suspension
(COMPETITORS)*



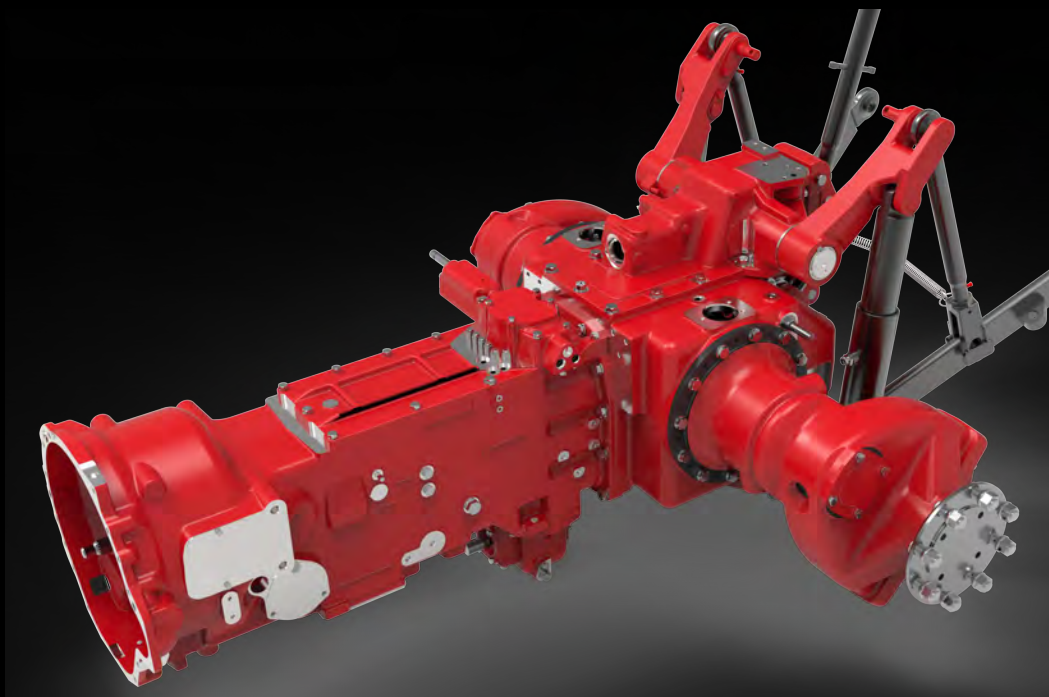
Premium P100PSC HT Series Drivetrain



P100PSC HT Series tractors feature a 4-speed transmission with 3-Powershift speeds, 2-ranges and a hydraulic Power Shuttle reverser giving the operator 24F/24R speeds selection. The tractor's top road speed is 25 MPH (40 Kph). The reliable three-speed Powershift can be controlled either manually or automatic.

All Models are equipped with 4-wheel multi-wet brake linings submerged in oil.

All P100PSC HT Series tractors feature the time proven outboard drop down final drive system, providing unmatched pulling power, strength and longevity.





Zetor P100PSC HT Hydraulic System

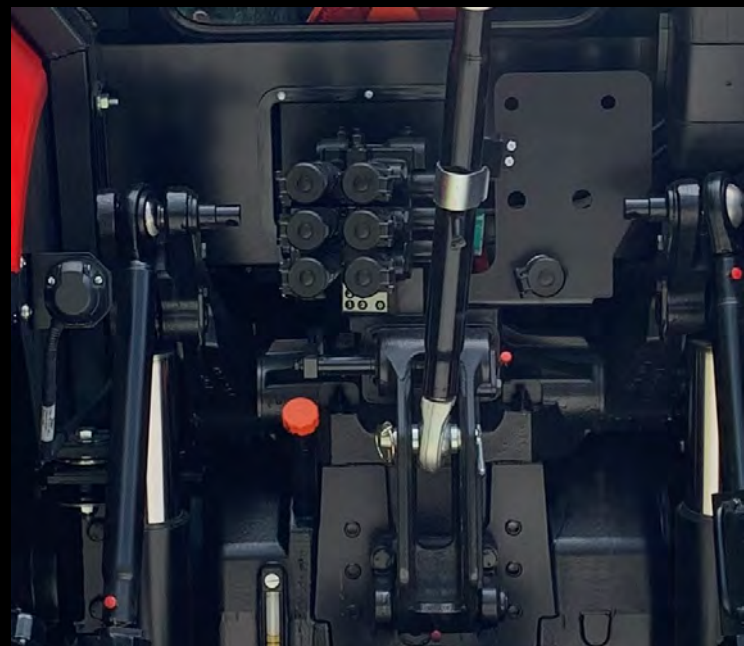
All **P100 PSC HT** tractor models are equipped with Bosch electro-hydraulics Zetor HITCHTRONIC™ (ELC) function of the 3-point hitch with lower link electronic draft sensing, position and mix controls with precise measurements.

Both the left and right outer fenders have raise and lower control buttons of the 3-point hitch and PTO kill standard.

HITCHTRONIC™ by Zetor decreases the fuel consumption by an additional 5 to 7% and automatically regulates the 3-Point Hitch by measuring the soil resistance.



1. 3-Point Hitch Lift Control Up/Down (4 positions)
 - a. Transport, Lift
 - b. STOP
 - c. Setting, lower (working)
 - d. Free position, quick sinking – automatic lever return to position (c) by spring
2. Blocking (in transport position)
3. Powering speed
4. 3-Point Hitch Lift position settings
5. 3-Point Hitch Lift Raise position limit
6. Smooth setting (mixing) the power-to-position
7. Indicator light - diagnostics
8. Indicator light - lift
9. Indicator light - lower
10. Oscillation compensator (damping) switch
11. Indicator light - oscillation damping on/Hitchtronic on



All models come factory equipped with 3-premium (4-Optional) 4-way rear remote valves + 1 Free Return Coupler.

Each valve section has float/detent/single acting and double acting functions.



Zetor HSX HT Hydraulic System

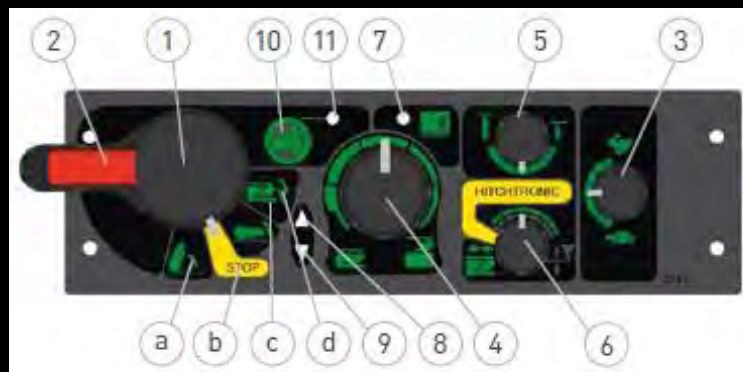
All **HSX HT Series** tractor models are equipped with Bosch electro-hydraulics with Zetor HITCHTRONIC™ (ELC) function of the 3-point hitch with lower link electronic draft sensing, position and mix controls with precise measurements.

Both the left and right outer fenders have raise and lower button controls of the 3-point hitch and PTO kill button.

HITCHTRONIC™ by Zetor decreases fuel consumption by an additional 5 to 7% and automatically regulates the 3- Point Hitch by measuring soil resistance.



1. 3-Point Hitch Lift Control Up/Down (4 positions)
 - a. Transport, Lift
 - b. STOP
 - c. Setting, lower (working)
 - d. Free position, quick sinking – automatic lever return to position (c) by spring
2. Blocking (in transport position)
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7. Indicator light - diagnostics
8. Indicator light - lift
9. Indicator light - lower
10. Oscillation compensator (damping) switch
11. Indicator light - oscillation damping on/Hitchtronic on



All models come factory equipped with 3-premium, 4-way rear remote valves. + 1 Free Return coupler. Each valve section has float/detent/single acting and double acting functions.



Zetor HD HT Series Premium Hydraulic System



1. Switch controls of lights, wipers, rear window defrost, L/R outer heated mirrors.
2. Electronic Joystick control for Front End Loader plus two 3rd & or 4th Function options, or Front 3-Point Hitch option.
3. Rear Hydraulic Remote Valve controls
4. Hand throttle
5. Timed pressure of hydraulic Valves
6. Timed hydraulic flow of hydraulic valves
7. PTO Speed Selector for rear PTO
8. Electro-hydraulic control of the rear 3-PH
9. Controls for:
 - PTO on/off
 - Differential locks
 - Height position setting of suspended front axle — Powershift (Torque multiplier) pre-set settings

ALL WITHIN AN ARM'S REACH

Multifunction Command Console on the right side of the operator, controls all hydraulic functions, Headland Management and PTO speed selection of the tractor.



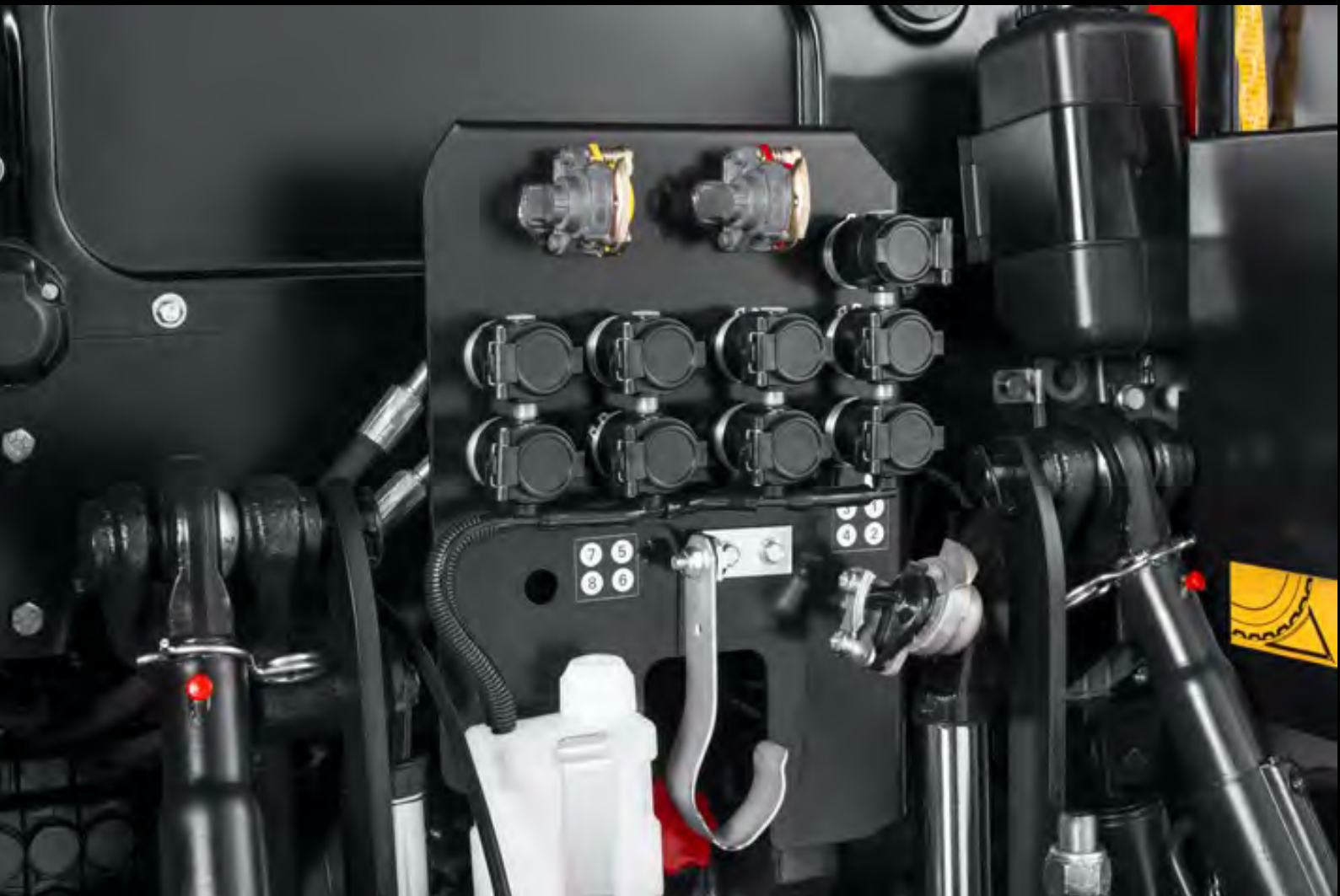
Zetor HD HT Series Premium Hydraulic System

4-Premium 6-way electronic remote valves with timed flow/timed pressure/float/detent/double acting/single acting functions. Each valve is individually controlled by 4-fingertip levers inside the right command control console. An additional zero pressure coupler is included for additional benefits, such as implements that require a case drain dump back to sump without any pressure.

A drip tank comes standard.

A factory installed Electronic Joystick with 2-additional electronic functions is also standard equipment.

An additional Electronic DANFOSS Valve can be factory ordered or USA installed to supply oil to the factory Electronic Joystick without sacrificing the rear remotes.





Zetor HD 3-Point Hitch System



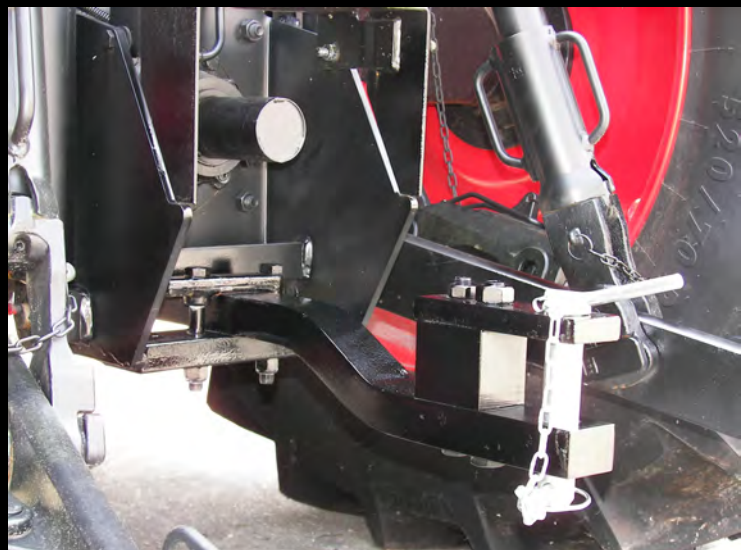
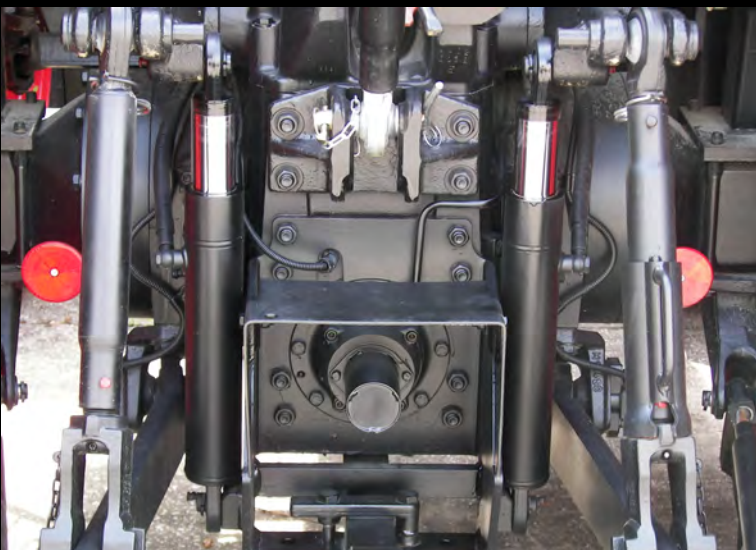
All HSX HT & HD HT Models are equipped with the Bosch electro-hydraulic system with ZETOR HITCHTRONIC™, (ELC) function of the 3-point hitch with lower link electronic draft sensing, position and mix controls with precise measurements.

Both the left and right outer fenders have raise and lower button controls of the 3- point hitch and PTO kill button.

HITCHTRONIC™ by Zetor decreases the fuel consumption by an additional 5 to 7% and automatically regulating the 3- Point Hitch by measuring soil resistance.

As described in previous pages, the HD Series Headland Management (HLM) gives the operator precise control of the 3-Point Hitch with all combinations including stop, go, left/right turning, 4WD activation/deactivation, PTO engaged/disengaged, differential lock engaged/disengaged and in any travel speed. This premium factory feature significantly increases field productivity and maneuverability.

The ZETOR HSX & HD Series tractors lift more weight out of any brand on the market today in it's class. An inner hydraulic piston plus two external auxiliary lift assist cylinders provides the tractor with an impressive 14,400 LBS. of Lift Capacity @ 24 inch behind the Ball Ends (optional hooks). CAT III N/ II, HD Lift Arms are Standard with HD Telescopic Stabilizers. HD Extendable CAT 2 Link Ball Ends are optional on the HD tractors.



Zetor

Zetor HD Drawbar Design



- HD swinging drawbar with hammer strap and tow pin standard.
- Optional hydraulic trailer brakes.
- Optional pneumatic over hydraulic trailer brakes.





Zetor P100PSC HT Series Premium Comfort



- Premium Climate Control CAB including AC/Heater and Forced Air front windshield defrost
- Electric rear window defrost
- Right hand console & B-Post Control Center
- Stereo ready with speakers and antenna
- Premium Cloth Air-ride suspension seat with swivel/recline/for/aft/rocker control/dual armrest
- Premium cloth folding instructor seat
- Tilt wheel with telescopic steering column
- Locking L/R doors, L/R corner windows and rear window
- Telescopic L/R heated outer mirrors
- F/R Wipers with washer tank
- 3-Premium, 4-way mechanical control rear remote valve levers
- Windshield sun screen
- Fresh air ventilation
- Retractable seatbelts



Zetor HSX HT Premium Comfort



- Premium Climate Control CAB including AC/Heater and Forced Air front windshield defrost
- Electric rear window defrost
- Right hand console & B-Post Control Center
- Stereo ready with speakers and antenna
- Premium Cloth Air-ride suspension seat with swivel/recline/for/aft/rocker control/dual armrest
- Premium cloth folding instructor seat
- Tilt wheel with telescopic steering column
- Locking L/R doors, L/R corner windows and rear window
- Telescopic L/R heated outer mirrors
- F/R Wipers with washer tank
- 3-Premium, 4-way mechanical control rear remote valve levers
- Windshield sun screen
- Fresh air ventilation
- Retractable seatbelts
- Optional Cab Suspension



Zetor HD HT Premium Comfort



- Premium Climate Control CAB including AC/Heater/Forced Air front windshield defrost
- Electric rear window defrost
- (HLM) Headland Management (*HD only*)
- Right hand console command center
- Stereo ready with speakers and antenna
- Premium Cloth Air-ride suspension seat with swivel/recline/for/aft/rocker control/dual armrest
- Premium cloth folding instructor seat
- Tilt wheel with telescopic steering column
- Locking L/R doors, L/R corner windows and rear window
- Telescopic L/R heated outer mirrors
- F/R Wipers with washer tank
- 4-Fingertip electronic control rear remotes (*HD only*)
- Electronic Joystick with 6 functions (*HD only*)
- Optional DANFOSS Electronic Loader Control Valve, separate from Rear Remotes (*HD only*)
- Windshield sun screen
- Fresh air ventilation
- Retractable seatbelts
- Optional Cab Suspension

Zetor

Zetor Premium Features

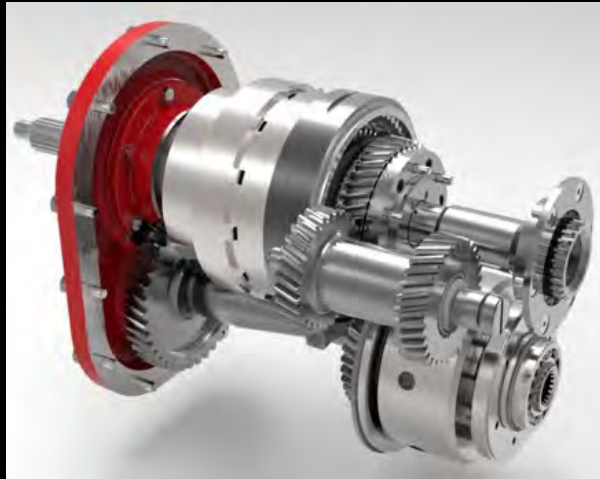


Multiple Wet-disc brakes. 5-disc per rear wheel for maximum stopping power, submerged in oil for long life.

Zetor manufactured transmissions, multi-wet clutch packs, Powershift (Torque Multiplier).

Helical cut gear sets.

Lubricated by pressurized oil.



3-Powershift speeds. Control buttons on inside of shift knob.

De-Clutch PowerClutch trigger function on front side of knob.

Enables shifting without clutching tractor.



Optional Cab Suspension.
Factory or dealer installed.





P100PSC HT PREMIUM AG SERIES

MODEL	P100PSC HT	P110PSC HT	P120PSC HT	P130PSC HT
Engine - ZETOR 4.1L (254 ci)	4 – Cylinder T4F • Mechanical Fuel Injection • Electronic Governor • Water Cooled			
Aspiration	Wastegate Turbo Charged Diesel			
Engine Gross HP (kw) <i>per 97/68/EC</i>	100 (74.5)	110 (82.0)	120 (89.4)	128 (95.4)
Mfg Rated PTO HP	75 (55.9)	84 (62.6)	90 (67.1)	96 (71.5)
Transmission Design	24F/24R • 4-Speed • 2-Range • 3-Powershift			
Transmission Features	PowerClutch™ (DeClutch) • Powershift, Auto or Manual Select Mode			
Transmission Reverser	Power Shuttle Reverser			
Transmission Clutch	Hydraulic, Multi-Wet Clutch Pack			
Power Take-Off (PTO)	540/1000			
PTO Engagement	Electro-Hydraulic 2-Position Switch			
PTO Clutch	Hydraulic, Multi-Wet Clutch Pack			
CAT II, IIIN, 3-Point Hitch	HD Telescopic Stabilizers with Extendable Ball Ends			
Drawbar	HD Sliding and Swinging with Hammer Strap			
3-Point Hitch Control	ELC (HITCHTRONIC™) Controls, Position • Draft • Mix, Fender Button Controls			
3-Point Hitch Lift Capacity	9,921 (4500 kg) @ Hitch Point / 7,738 (3510 kg) @ 24" Behind Hitch Point			
Hydraulic Flow to Remotes	17 (64.3 L)			
Rear Valves	3 – Standard (4-Option)			
Total Hydraulic Flow	23 (87 L)			
Power Steering Flow	6.0 GPM (22.7 L) Tilt with Telescopic Wheel			
QA MSL Front End Loader	HD MSL ZM229-1, ZM229, ZM229P with Factory 3rd Function			
Loader Lift Height Under Level Attachment	136.8 inch (3475 mm)			
Loader Max Lift Capacity	2,866 LBS (1300 kg) • 3,560 LBS (1600 kg) • 3,560 LBS (1600 kg)			
Operator Platform	Premium Climate Control CAB, Swivel/Recline/For/Aft/Air-Ride Cloth Seat			
SAFETY	Retractable Seatbelts, Flashers, Lighting, Brake Lights, Start Safety			
Factory Instructor Seat	Premium Fold-up Cloth with Retractable Seatbelt			
Premium Accessory	On-board 80 cfm Air Compressor			
Tractor Weight	10,600 LBS (4808 kg)		10,725 LBS (4865 kg)	

Optional: Pivoting Front Fenders, Rear Wheel Weights, Front Weights, Front 3-Point Hitch, Front Hydraulics, Front PTO





HSX HT PREMIUM AG SERIES

MODEL	HSX130 HT	HSX140 HT	HSX150 HT
Engine - ZETOR 4.1L (254 ci)	4 – Cylinder T4F • Mechanical Fuel Injection • Electronic Governor • Water Cooled		
Aspiration	Wastegate Turbo Charged Diesel		
Engine Gross HP (kw) <i>per 97/68/EC</i>	128 (95.4)	138 (102.9)	148 (110.3)
Mfg Rated PTO HP	105 (78.3)	115 (85.7)	125 (93.2)
Transmission Design	30F/30R • 5-Speed • 2-Range • 3-Powershift		
Transmission Features	PowerClutch™ (<i>DeClutch</i>) • Powershift, Auto or Manual Select Mode		
Transmission Reverser	Power Shuttle Reverser		
Transmission Clutch	Hydraulic, Multi-Wet Clutch Pack		
Power Take-Off (PTO)	540/540E/1000/1000E		
PTO Engagement	Electro-Hydraulic 2-Position Switch		
PTO Clutch	Hydraulic, Multi-Wet Clutch Pack		
CAT II, IIIN, 3-Point Hitch	HD Telescopic Stabilizers with HD Extendable CAT 2 Ball Ends		
Drawbar	HD Sliding and Swinging with Hammer Strap		
3-Point Hitch Control	ELC HITCHTRONIC Controls, Position • Draft • Mix, Fender Button Controls		
3-Point Hitch Lift Capacity	18,400 (8346) @ Hitch Point / 14,400 (6531kg) @ 24" Behind Hitch Point		
Hydraulic Flow to Remotes	20 (75.7 L)		
Rear Valves	3 - Standard		
Total Hydraulic Flow	27 (102.2 L)		
Power Steering Flow	7.0 GPM (26.5 L) Tilt with Telescopic Wheel		
QA MSL Front End Loader	HD MSL ZM241 with Factory 3rd Function		
Loader Lift Height Under Level Attachment	136.8 inch (3475 mm)		
Loader Max Lift Capacity	3,560 LBS (11600 kg)		
Operator Platform	Premium Climate Control CAB, Swivel/Recline/For/Aft/Air-Ride Cloth Seat		
SAFETY	Retractable Seatbelts, Flashers, Lighting, Brake Lights, Start Safety		
Factory Instructor Seat	Premium Fold-up Cloth with Retractable Seatbelt		
Premium Accessory	On-board 80 cfm Air Compressor		
Tractor Weight	12,453 LBS (5648 kg)		

Options Pivoting Front Fenders, Rear Wheel Weights, Front Weights, Front 3-Point Hitch, Front Hydraulics, Front PTO, Independent Suspended Front Axle Front Hydraulic Disk Brakes





HD HT PREMIUM AG SERIES

MODEL	HD140 HT	HD150 HT	H5160 HT
Engine - ZETOR T4F, 4.1L (254 ci)	4 – Cylinder • Mechanical Fuel Injection • Electronic Governor • Water Cooled		
Aspiration	Turbo Charged Diesel		
Engine HP (kw) <i>per 97/68/EC</i>	138 (102.9)	148 (110.3)	159 (118.5)
Power Take Off (PTO) HP	115 (85.7)	125 (93.2)	130 (97)
Transmission Design	30F/30R • 5-Speed • 2-Range • 3-Powershift		
Transmission Features	PowerClutch™ (DeClutch) • Powershift, Auto or Manual Select Mode		
Transmission Reverser	Power Shuttle Reverser		
Transmission Clutch	Hydraulic, Multi-Wet Clutch Pack		
Power Take-Off (PTO)	540/540E/1000/1000E		
PTO Engagement	Electro-Hydraulic 2-Position Switch		
PTO Clutch	Hydraulic, Multi-Wet Clutch Pack		
CAT II, IIIN, 3-Point Hitch	HD Telescopic Stabilizers with HD Hook Ends		
Drawbar	HD Sliding and Swinging with Hammer Strap		
3-Point Hitch Control	ELC HITCHTRONIC Controls, Position • Draft • Mix, Fender Button Controls		
3-Point Hitch Lift Capacity	18,400 (8346) @ Hitch Point / 14,400 (6531kg) @ 24" Behind Hitch Point		
Hydraulic Flow to Remotes	23 (87 L)		
Rear Valves	4 Electronic - Standard		
Joystick	Electronic Standard with Multi-Function Controls		
Total Hydraulic Flow	30 (113.6 L)		
Power Steering Flow	7.0 GPM (26.5 L) Tilt with Telescopic Wheel		
QA MSL Front End Loader	HD MSL ZM241 with Factory 3rd Function		
Loader Lift Height Under Level Attachment	136.8 inch (3475 mm)		
ZM241D Loader Max Lift Capacity	3,560 LBS (11600 kg)		
Operator Platform	Premium Climate Control CAB, Swivel/Recline/For/Aft/Air-Ride Cloth Seat		
SAFETY	Retractable Seatbelts, Flashers, Lighting, Brake Lights, Start Safety		
Factory Instructor Seat	Premium Fold-up Cloth with Retractable Seatbelt		
Premium Accessory	On-board 80 cfm Air Compressor		
Suspended Front Axle	Optional Independent Front Axle Suspension		
Tractor Weight	13,475 LBS (6112 kg)		

Options: Pivoting Break-A-Way Front Fenders, Rear Wheel Weights, Front Weights, Front 3-Point Hitch, Front Hydraulics, Front PTO, Independent Suspended Front Axle, Front Hydraulic Disc Brakes





ZETOR IS YOUR RELIABLE PARTNER

New ideas combined with simplistic and reliable designs coupled with low maintenance cost has earned Zetor tractors respect of commercial operators and farmers in over 130 countries, around the world.

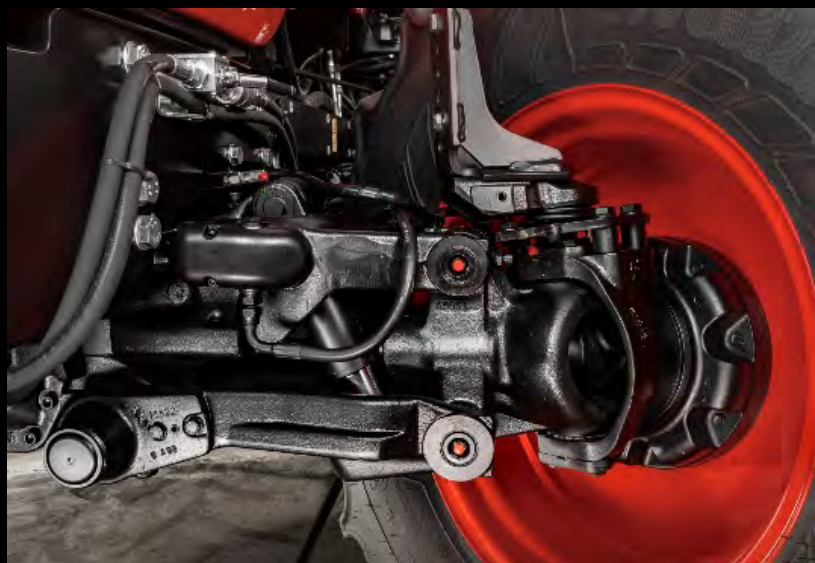
To achieve these high standards, Zetor uses exclusive in-house designs as well as the highest quality of components designed and manufactured in Europe and U.S.A.

Zetor tractors are manufactured in Zetor a.s. manufacturing facilities, Brno, CZ in the European Union with High Safety and Product Standards ISO 9001 Compliance.

Zetor tractors and attachments have been offered in North America through full-service dealerships since the 1960's.

Together, with a network of Full Service Zetor dealers, Zetor is dedicated to deliver parts and service support second to none.

All Zetor tractors carry 24 months or 2000 hours full coverage warranty with multiple optional extended powertrain and hydraulic warranties for all types of applications to fit your budget needs.



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