

# ZETOR

PRODUCT PORTFOLIO



Tractor is Zetor. Since 1946.

*Zetor*



FROM THE VERY BEGINNING,  
THE ZETOR BRAND HAS BEEN  
RECOGNIZED FOR:

### **PERFORMANCE**

ZETOR tractors have always been designed for the best possible combination of engine power and tractor weight, to maximize the performance and fuel economy.

### **ENDURANCE**

ZETOR emphasizes simple, smart and useful design. This is the key to outstanding reliability and simple maintenance.

### **TOTAL COST OF OWNERSHIP**

ZETOR tractors rank among the best in fuel consumption. In the long run, everyone will appreciate reliable availability of reasonably priced spare parts. All that will reduce the operational costs.

# PRODUCT PORTFOLIO



**ZETOR PRIMO**

ZETOR  
**PRIMO HT**

**20 HP**



**ZETOR COMPAX**

ZETOR  
**COMPAX CL**

**25-40 HP**

ZETOR  
**COMPAX HT**

**25-40 HP**



**ZETOR UTILIX**

ZETOR  
**UTILIX CL**

**45-55 HP**

ZETOR  
**UTILIX HT**

**45-55 HP**



**ZETOR HORTUS**

ZETOR  
**HORTUS CL**

**60-70 HP**

ZETOR  
**HORTUS HS**

**60-70 HP**



**ZETOR MAJOR**

ZETOR  
**MAJOR CL**

**80 HP**



**ZETOR PROXIMA**

ZETOR  
**PROXIMA CL**

**80-110 HP**

ZETOR  
**PROXIMA GP**

**80-110 HP**

ZETOR  
**PROXIMA HS**

**80-120 HP**



**ZETOR FORTERRA**

ZETOR  
**FORTERRA CL**

**100-140 HP**

ZETOR  
**FORTERRA HSX**

**120-140 HP**

ZETOR  
**FORTERRA HD**

**130-150 HP**



**ZETOR CRYSTAL**

ZETOR  
**CRYSTAL HD**

**170 HP**





## PRIMO

The compact ZETOR PRIMO HT 20 tractor mower offers perfect manoeuvrability, stability, and efficiency even under maximum workloads. It is available in an open version with a protective ROPS frame. The ZETOR PRIMO is especially suited to the maintenance of lawns and grass surfaces.

### ENGINE

ZETOR PRIMO tractors are fitted with tried-and-tested 19 HP Yanmar engines that meet the latest Stage V emission standards. These three-cylinder, liquid-cooled engines provide the necessary power while offering quiet and fuel-efficient operations.

### TRANSMISSION

Each ZETOR PRIMO tractor is equipped as standard with a two-speed hydrostatic gearbox. Dual pedal (forward and reverse) controls provide high comfort while driving. Equipping PRIMO tractors with this type of gearbox ensures smooth and quiet operation when working. For even easier control the tractor is equipped with power steering.

### 4WD

4WD is the standard equipment for the PRIMO range. It allows small turning radius and high traction, for example when you use the tractor in difficult conditions.

### HYDRAULICS

The lift capacity of three-point hitch reaches almost 5 kN.

### BELLY MOWER

The 54" BELLY MOWER provided as standard guarantees effective mowing.

MODEL	UNITS	PRIMO HT 20 NC*
ENGINE		
Type	•	Yanmar - Diesel (Stage V)
Max. power	kW	14.2
	HP	19.0
Rated speed	rpm	3,000
Fuel tank	l	25
TRANSMISSION		
Type	•	HST
Number of gears (F/R)	•	Infinite / 2 Range
Max. speed	km/h	12.5
Steering	•	Hydrostatic
HYDRAULICS		
Max. total flow	l/min	26.4
THREE-POINT HITCH		
Type	•	Category I (N)
Max. lift capacity	kN	5
Control	•	Position
PTO		
Control	•	Electrohydraulic
PTO Mid	rpm	2,500
PTO Rear	rpm	540
DIMENSIONS		
Overall length (with 3PH)	mm	2,394
Overall width	mm	1,130
Wheelbase	mm	1,350
Height to top of ROPS	mm	2,200
Min. ground clearance	mm	210
STANDARD TIRES		
Turf	•	16x7.50-8 24x12.00-12
OTHER SPECIFICATION		
Protective structure	•	ROPS (Roll-Over Protective Structures)
Implement	•	54" Mower as a standard
Total weight	kg	758

\* NC = Cabrio



## COMPAX

The new tractors in the COMPAX range are compact, easy to operate, versatile machines for professionals and come in open or cab versions. COMPAX tractors are particularly suitable for summer and winter maintenance of villages, company premises and sports grounds, as well as for gardening.

### ENGINE

The versatile COMPAX tractors are equipped with reliable Yanmar engines ranging from 25 to 37 HP that meet the latest Stage V emission standards. These liquid-cooled three-cylinder engines are characterised by smooth running and economy.

### TRANSMISSION

ZETOR COMPAX tractors are available with two types of gearboxes. **COMPAX HT** models feature three-speed hydrostatic transmissions (two-speed for **COMPAX HT 25** models). This design provides even

more comfortable driving control thanks to two pedals, forward and reverse. **COMPAX CL** models are equipped standard with a synchronised 12/12 (6/2 – model **COMPAX CL 25**) transmission as a standard.

### HYDRAULICS

The lifting force of the three-point towing hitch can reach up to 12 kN depending on the model, allowing you to work with a wide range of accessories.

### CAB

**ZETOR COMPAX 35** and **COMPAX 40** tractors are also available with a cab. The ergonomic design of the controls facilitates and simplifies work with each tractor and adds to driver comfort. The machines are also equipped with air-conditioning and a joystick for easy operation of the attached machinery and tools as standard.

		COMPAX 25		COMPAX 35				COMPAX 40			
MODEL	UNITS	CL NC*	HT NC*	CL NC*	CL	HT NC*	HT	CL NC*	CL	HT NC*	HT
ENGINE											
Type	•	Yanmar - Diesel (Stage V)									
Max. / Rated power (ECE R120)	kW	18.9		25.5				27.5			
	HP	25.3		34.2				36.9			
Rated speed	rpm	3,000		2,800				3,000			
Fuel tank	l	22		34							
TRANSMISSION											
Type	•	Sync/Shuttle	HST	Sync/Shuttle		HST		Sync/Shuttle		HST	
Number of gears (F/R)	•	6/2	Infinite (2 Ranges)	12/12		Infinite (3 Ranges)		12/12		Infinite (3 Ranges)	
Max. speed	km/h	16.6	16.9	22.6		27		24.2		28.9	
Steering	•	Hydrostatic									
HYDRAULICS											
Max. total flow	l/min	26.3		40.1		41.2		40.1		41.2	
Hydraulic remotes	•	4 (2 pairs)		Rear: 4 (2 pairs) Under cab for front implements: 4 (2 pairs)							
THREE-POINT HITCH											
Type	•	Category I (N)		Category I							
Max. lift capacity	kN	6		12							
Control	•	Position		Posi- tion / Draft	Position		Posi- tion / Draft		Position		
PTO											
Control	•	Electrohydraulic									
PTO Mid	rpm	2,000		N/A		2,000		N/A		2,000	
PTO Rear	rpm	540									
DIMENSIONS											
Operating weight max.	kg	843		1,494	1,650	1,494	1,650	1,494	1,650	1,494	1,650
Max. technically permissible weight	kg	1,400		2,410	2,880	2,410	2,880	2,410	2,880	2,410	2,880
Max. length (with 3PH)	mm	2,668		3,310	3,360	3,290	3,340	3,310	3,360	3,290	3,340
Min. length	mm	2,649		3,046	3,014	2,944	2,994	3,046	3,014	2,944	2,994
Max. width **	mm	1,288		1,715							
Min. width	mm	1,164		1,360							
Max. height	mm	2,320		2,430	2,350	2,430	2,350	2,430	2,350	2,430	2,350
Min. height	mm	2,252		2,375	2,295	2,375	2,295	2,375	2,295	2,375	2,295
Wheelbase	mm	1,460		1,640	1,700	1,680	1,680	1,640	1,700	1,680	1,680
Min. ground clearance	mm	172		220							
TIRES											
Agricultural	•	6.0-12 9.5-16		8.0-16 12.4-24							
Turf	•	-		27×10.5-15 41×14-20							
Industrial	•	20×8.0-10 27×12.5-15		27×10.5-15 12.5×20							

\* NC = Cabrio \*\* Max. width without mirrors





## UTILIX

New ZETOR UTILIX represents a compact tractor which is ideal for work at small farms, municipality, parks and gardens, sport facilities and for many other purposes. The tractor offers excellent maneuverability with a small turning radius.

### ENGINE

ZETOR UTILIX serie offers two models equipped with 46 HP or 55 HP engines. 4 cylinder liquid-cooled diesel engines meet latest emission standards so they do not harm the environment or the health of the users.

### TRANSMISSION

ZETOR UTILIX is available with two types of gearboxes. **UTILIX CL** features a synchronized manual gearbox with 16-speed forward and 16-speed reverse (four gears in four speed ranges).

**ZETOR UTILIX HT** employs fully-automated hydrostatic transmission with a 3 range speed control. Thus, speed can be controlled with two pedals (forward and reverse) without the need of mechanical shifting. This solution offers comfortable and simple control of the tractor.

### HYDRAULICS AND THREE-POINT HITCH

The lift capacity of 15 kN provides the sufficient power to control the rear implement. Two pairs of hydraulic couplings are located at the rear and two extra pairs are also available under the cab for connection of front-mounted implements and are controlled by the factory-installed joystick.

### COMFORTABLE CAB

The cabin is both spacious and ergonomic with conveniently located levers, joystick, and controls. The cab is equipped with ergonomic and spacious operator seat and air condition. The practical joystick enables easy control of front loader and aggregated machines and tools. The **UTILIX CL** model is available also in open station version.



MODEL	UNITS	UTILIX CL		UTILIX HT	
		45	55	45	55
ENGINE					
Type	•	Yanmar (Stage V)			
Max. / Rated power (ECE R120)	kW	34.3	41.1	34.3	41.1
	HP	46.0	55.1	46.0	55.1
Rated speed	rpm	2,800			
Displacement	cm³	2,190	2,091	2,190	2,091
TRANSMISSION					
Type	•	Mechanical (synchronized)		Hydrostatic	
Number of gears (F/R)	•	16/16 (4 Gears in 4 Ranges)		Infinite (3 Ranges)	
Reverser	•	Mechanical (SynchroShuttle)		–	
Max. speed	km/h	29.6	29.6	29.4	29.4
PTO					
Type	•	Independent (540/1,000)			
Control	•	Electrohydraulic			
HYDRAULICS					
Type	•	Dual Gear Pump			
Implement pump cap.	l/min	33.5	36.5	33.5	36.5
Steering pump cap.	l/min	17.5	19.2	17.5	19.2
Max. total flow	l/min	51.7	55.7	51.7	55.7
Hydraulic remotes (Quickcouplers)	•	Rear: 4 (2 pairs) Under cab for front implements: 4 (2 pairs)			
THREE-POINT HITCH					
Type	•	Category I			
Control	•	Mechanical (Position / Draft)			
Max. lift capacity	kN	15			
Lifting capacity (at 24 inch. behind link ends)	kN	13			
CAB¹					
Heating / Air-Conditioning	•	Standard / Standard			
Radio	•	Standard			
Steering wheel	•	Adjustable			
UNDERCARRIAGE					
Drive system	•	4WD			
Fuel tank	l	60			
OTHER SPECIFICATION					
Operating weight ²	kg	1,900 - 1,975			
Front ballast	kg	Standard (6 × 28 kg)			
Max. technically permissible weight ²	kg	3,325			
Length * min. - max.	mm	3,317 - 3,929			
Width **	mm	1,870 with industrial wheels / 1,600 with agricultural wheels			
Height min. - max. ²,³	mm	2,425 - 2,475			
Wheelbase	mm	1,935			
Min. turning radius (with brakes)³	mm	3,352			
WHEELS					
Industrial wheels (front × rear) <sup>STD</sup>	•	12-16.5 × 17.5L-24			
Agricultural wheels (front × rear) <sup>OPT</sup>	•	240/70 R16 × 320/70 R24			

Other optional equipment: front mudguards, pneumatic trailer brakes 2+1, multistage hitch, front 3PH with hydraulic couplings <sup>OPT</sup> Optional <sup>STD</sup> Standard <sup>1</sup> Not-valid for open station version <sup>2</sup> Specification of Utilix CL open station: height 2,540 - 2,590 mm, operating weight 1,800 - 1,875 kg, max. technically permissible weight 3,150 kg <sup>3</sup> Dimensions depend on the wheels size \* Max. length with 3PH and front ballast \*\* Max. width without mirrors



## HORTUS

ZETOR HORTUS represents a utility tractor which is ideal for work at small farms, municipality, parks and gardens, sport facilities and for many other purposes.

### ENGINE

The engine with the power of 68 HP with Common Rail injection system is outstanding for its low fuel consumption, reliability and simple construction. The current emission level is reached only by using an oxidation catalyst (DOC) without the need of using a DPF or urea. With a 70 liter tank, the HORTUS is ready for many hours of use on the field before the next refuel.

### TRANSMISSION

HORTUS transmission offers 4 gears and 3 ranges with an additional creeper gear for a total of 24 forward and 24 reverse speeds, enabling you to select the right speed for your work needs.

**HORTUS CL** offers mechanical reverser, **HORTUS HS** is equipped with hydraulic reverser (PowerShuttle), which brings better comfort for your daily work.

### HYDRAULICS AND THREE-POINT HITCH

Category II hitches with a hitch lift capacity of 15 kN and two standard rear remote valves allow HORTUS to be equipped with a various assortment of rear implements. Two pairs of hydraulic couplings are located at the rear and two extra pairs are available also under the cab for connection of front-mounted implements and are controlled by a factory-installed joystick.

### COMFORTABLE CAB

The cabin is both spacious and ergonomic with conveniently located levers, joysticks, and controls. The cabin is equipped with air condition.

MODEL	UNITS	HORTUS CL 65		HORTUS HS 65
ENGINE				
Type	•	DEUTZ TCD 2.9 L4 (Stage IIIB)		
Rated power (ECE R120)	kW	50.0		
	HP	68.0		
Rated speed	rpm	2,200		
Max. power (ECE R120)	kW	51,5		
	HP	70,0		
Rated speed	rpm	2,000		
Displacement	cm³	2,925		
TRANSMISSION				
Type	•	Mechanical		
Number of gears (F/R)	•	24/24		
Reverser	•	Mechanical (SynchroShuttle)	PowerShuttle (Electrohydraulic)	
Max. speed	km/h	35.6		
Min. speed	km/h	0.39		
PTO				
Type	•	Independent (540/1,000)		
Control	•	Electrohydraulic		
HYDRAULICS				
Type	•	Dual gear pump		
Implement pump cap.	l/min	39.1		
Steering pump cap.	l/min	22		
Maximum total flow	l/min	61.1		
Hydraulic remotes (Quickcouplers)	•	Rear: 4 (2 pairs) Under cab for front implements: 4 (2 pairs)		
THREE-POINT HITCH				
Type	•	Category II		
Control	•	Mechanical control (Position / Draft)		
Max. lift capacity	kN	15		
Lifting capacity (at 24 inch. behind link ends)	kN	14		
CAB				
Heating / Air-Conditioning	•	Standard / Standard		
Radio	•	Standard		
Steering wheel	•	Adjustable		
UNDERCARRIAGE				
Drive system	•	4WD		
Trailer brakes <sup>OPT</sup>	•	Pneumatic 2+1		
Fuel tank	l	70		
Front mudguards	•	OPT		
OTHER SPECIFICATION				
Operating weight	kg	2,520 - 2,595		
Front ballast	kg	Standard (8×32 kg)		
Max. technically permissible weight	kg	4,690		
Length * / Width ** / Height min. - max. <sup>1</sup>	mm	3,722 - 3,982 / 1,840 - 1,952 / 2,565		
Wheelbase	mm	2,155		
Min. turning radius (with brakes)	mm	3,590		
WHEELS				
Wheels (front × rear)	•	280/85 R20 × 380/85 R30		

<sup>OPT</sup> Optional <sup>1</sup> Dimensions depend on the wheels size \* Max. length with 3PH and front ballast \*\* Max. width without mirrors





## MAJOR

MAJOR is a universal agricultural tractor. It is designed for coupling with farm machines, as well as for transport. This range can be used mainly for small and family farms and is also useful in the municipal services. MAJOR is a lifelong tractor – always reliable, powerful and easy to maintain.

### ENGINE

The core of MAJOR tractors is its well-proven four-cylinder engine with a power of 75 HP. The engine also performs well in demanding conditions. The engine is excellent for its low fuel consumption, high reliability and simple construction. The current emission level is reached by using an oxidation catalyst (DOC) and DPF without the need of using urea.

### TRANSMISSION

**MAJOR CL** tractors are equipped with a reversing, four-gear(Synchorshuttle), fully synchronized gearbox with three speed ranges.

### HYDRAULICS

The mechanically regulated hydraulics operate reliably under any circumstances. You will appreciate smooth lowering regulation, high endurance and long life. The **MAJOR CL** is equipped with one, or optionally two, hydraulic sections at the rear of the tractor.

### CAB

The MAJOR's cab is practical, spacious and provides an excellent view all round. The digital dashboard displays all important information required for the operation and control of the tractor. A more comfortable cab is available on request. This cab is equipped with a new steering column (tiltable, height-adjustable) and is ready for a loader joystick. In addition, this cab is also available with a pneumatic suspension of driver's seat or with a passenger seat as an option. Two roof types can be installed on ZETOR tractors: the standard roof and a reinforced FOPS roof (including a sunroof) which is intended for tractors equipped with a front loader.

MODEL	UNITS	MAJOR CL 80
ENGINE		
Type	•	DEUTZ TCD 2.9 Stage V
Engine design	•	Diesel, direct fuel injection, common rail, turbocharged, DOC filter, DPF filter
Rated power (ECE R120)	kW	55.4
	HP	75.3
Rated speed	rpm	2,200
Max. power (ECE R120)	kW	55.4
	HP	75.3
Rated speed	rpm	2,000
No. of cylinders / valves	•	4/8
Displacement	cm <sup>3</sup>	2,925
Max. torque	Nm	300.0
Torque rise	%	25
TRANSMISSION		
Type	•	4 mechanical gears with 3 ranges
Number of gears (F/R)	•	12/12
Reverser	•	Mechanical (SynchroShuttle)
Max. speed	km/h	30
PTO		
Type	•	Independent / ground speed
Rear PTO Revolutions	rpm	540/1,000
Control	•	Mechanical
HYDRAULICS		
Type	•	Mechanical with regulation
Gear pump capacity	l/min	50
Rear hydraulic remotes (Quickcouplers)	•	1+1 / 2+1 <sup>OPT</sup>
THREE-POINT HITCH		
Type	•	Category II
Max. lift capacity	kN	18
Lifting capacity in full range	kN	15
CAB		
Driver's seat	•	Mechanically suspended STANDARD seat with safety belt / Pneumatic suspension <sup>OPT</sup>
Heating / Air-Conditioning	•	Standard / OPT
Steering wheel	•	Fixed / Tiltable, height adjustable <sup>OPT</sup>
UNDERCARRIAGE		
Drive system	•	4WD
Operating brakes	•	Mechanical with connecting the front axle
Fuel tank	l	80
Front mudguards	•	Fixed
OTHER SPECIFICATION		
Operating weight <sup>1</sup>	kg	2,960 - 3,645
Max. technically permissible weight	kg	4,300
Length * / Width ** / Height max.	mm	4,511 / 2,241 / 2,586
Length / Width / Height min.	mm	3,505 / 1,941 / 2,560
Wheelbase	mm	2,210

<sup>OPT</sup> Optional equipment <sup>1</sup> Without front and rear ballast \* Max. length with 3PH and front ballast \*\* Max. width without mirrors



## PROXIMA

Universal, reliable and robust. These words perfectly describe PROXIMA tractors, which rank as the most popular models of the ZETOR brand. These machines meet customers' demanding requirements for work in agriculture, forestry and municipal service.

### ENGINE

PROXIMA tractors are equipped with four-cylinder ZETOR engines offering 76 to 117 HP. With a simple design and no unnecessary electronics, these provide low fuel consumption and therefore guarantee low operating costs, minimal maintenance requirements and high durability. Excellent torque rise allows the engine to operate at low speeds with high loads, and without the need of frequent gear shifting.

### TRANSMISSION

**PROXIMA CL** is equipped with a fully synchronised transmission with 12 forward and 12 reverse gears and a mechanical reverser. Thanks to its simplicity and durability, the tractor is perfectly suited for hard work. **PROXIMA CL** can be optionally equipped with the super creeper transmission (20/4 gears) which has the lowest travelling speed 0.22 kph (at 2,200 rpm rated engine speed). **PROXIMA GP** is an option for customers seeking a more modern design, greater power and comfort. This version contains 16/16 speeds transmission with a two-stage torque multiplier.

**PROXIMA HS** offers the highest level of power in the PROXIMA family, featuring 24/24 speeds, a three-stage torque multiplier and the modern PowerShuttle design for increased comfort – changing the direction of travel under load.

### HYDRAULICS

PROXIMA tractors are equipped with a mechanically (MHR) or electronically (EHR) operated rear three point hitch with 2, 3 or 4 mechanically controlled hydraulic sections. The tractor excels with an above-average lifting force of up to 4,500 kg. The electro-hydraulic system is fitted with the HitchTronic function, which is a unique system for automatic control of the rear threepoint hitch. When using this system, there is no need to set up different types of regulation or combinations.

### CAB

Cabs have been designed to be ergonomic, comfortable and safe. They feature plenty of space around the driver and optimum all-round visibility. The operator has an excellent view and control over the implements being used. The ZETOR seat provides ergonomical and comfortable sitting. Two seat options are available - seat with mechanical suspension or seat with pneumatic suspension. Each PROXIMA tractor is equipped with easily foldable passenger seat with automatic safety belt.



		PROXIMA CL				PROXIMA GP				PROXIMA HS				
MODEL	UNITS	80	90	100	110	80	90	100	110	80	90	100	110	120
ENGINE														
Type	•	Stage III B												
Max. / Rated power (ECE R120)	kW	55.6	64.4	70.4	78.4	55.6	64.4	70.4	78.4	55.6	64.4	70.4	78.4	86.2
	HP	75.6	87.6	95.7	106.6	75.6	87.6	95.7	106.6	75.6	87.6	95.7	106.6	117.2
Rated speed	rpm	2,200												
No. of cylinders / valves	•	4/16												
Displacement	cm³	4,156												
Max. torque	Nm	334.8	364.4	428.4	449.4	334.8	364.4	428.4	449.4	334.8	364.4	428.4	449.4	493
Torque rise	%	35	38	46	40	35	38	46	40	35	38	46	40	37
TRANSMISSION														
Type	•	Reversing 6-stage with 2 ranges				Reversing 4-stage with 2 ranges								
Number of gears (F/R)	•	12/12				16/16				24/24				
Reverser	•	Mechanical (SynchroShuttle)								Electrohydraulic (PowerShuttle)				
Multiplier	•	–				2-stage (PowerShift)				3-stage (PowerShift)				
Clutch button	•	–				–				Clutch button located on the shift lever (PowerClutch)				
Max. speed	km/h	30 or 40				40								
PTO														
Type	•	Independent and ground speed				Independent and ground speed, wet multi-plate clutch								
Rear PTO revolutions	rpm	540/1,000 or 540/540E												
HYDRAULICS														
Type	•	Mechanical with regulation												
Gear pump capacity	l/min	50 / 60 <sup>OPT</sup>												
Rear hydraulic remotes (Quickcouplers)	•	4+1 / 6+1 <sup>OPT</sup>				4+1 / 6+1 <sup>OPT</sup> or 8+1 <sup>OPT</sup> [only with EHR]								
THREE-POINT HITCH														
Control	•	Mechanically controlled (MHR)				Mechanically controlled / Electro-hydraulics Bosch <sup>OPT</sup> with HitchTronic (EHR)								
Type	•	Category II												
Max. lift capacity	kN	46												
Lifting capacity in full range	kN	39												
CAB														
Driver's seat	•	Mechanically suspended with safety belt or Pneumatically suspended with safety belt <sup>OPT</sup>												
Heating / Air-Conditioning	•	Standard / OPT												
Steering wheel	•	Fixed or adjustable (tiltable and telescopic)								Adjustable (tiltable and telescopic)				
UNDERCARRIAGE														
Drive system	•	4WD												
Operating brakes	•	By connecting front driven axle (for 30 km/h) or Independent hydraulic wet four wheel brakes (for 40 km/h)				Independent hydraulic wet four wheel brakes								
Fuel tank	l	150								190				
Front mudguards	•	Standard												
OTHER SPECIFICATION														
Operating weight <sup>1</sup>	kg	3,930 - 4,550				3,960 - 4,550				4,130 - 4,550				
Max. technically permissible weight	kg	6,500												
Length* / Width** / Height max.	mm	4,764 / 2,085 / 2,900				4,787 / 2,085 / 2,900				4,898 / 2,085 / 2,900				
Length / Width / Height min.	mm	3,605 / 1,899 / 2,760												
Wheelbase	mm	2,308				2,328				2,442				

Other optional equipment: Front PTO, front 3PH with front hydraulic remotes, trailer brakes (pneumatic 2+1 hoses or hydraulic & pneumatic 2+0 hoses), radio, heated mirrors and rear window, working lights, beacons, wheels <sup>OPT</sup> Optional <sup>1</sup> Without front and rear ballast \* Max. length with 3PH and front ballast \*\* Max. width without mirrors



## FORTERRA

The FORTERRA range tractors are excellent in their robustness and performance. The tractors are equipped with ZETOR engines, which are designed for maximum performance under all conditions. Low fuel consumption and affordable spare parts make the FORTERRA tractors one of the most economical on the market.

### ENGINE

New ZETOR engines in the Stage V emission standard offer a significant consumption and emission reduction. These aggregates were tested by researchers from Mendel University and the results of the study confirmed that they have up to 19.2 % lower consumption than the engines in the Stage IIIB standard.

### TRANSMISSION

ZETOR uses in-house developed and manufactured gearboxes for the FORTERRA tractors. Own production allows the company to control the quality of the gearboxes. **FORTERRA CL** is equipped with a four-speed, fully synchronized gearbox, supplemented with two speed ranges and a three-stage PowerShift. It offers 24 forward and 18 reverse speeds.

**FORTERRA HSX** and **FORTERRA HD** are equipped with the innovated ECO40 gearbox. It offers five-speed gearbox with three-stage multiplier (PowerShift) and

2-speed ranges. It means that 30 forward and 30 reverse speeds are available for the driver. Hydraulic reverser (PowerShuttle) is standard for FORTERRA HSX and HD tractors. The new 40ECO gearbox allows users to reach the maximum speed (40 km/h) at lower revolutions (1800 rpm). This optimization leads to fuel savings of up to 15-20%, and reduces the noise and wear of the engine.

### HYDRAULICS

FORTERRA tractors are equipped with EHR (Bosch electrohydraulics) with **HitchTronic** function (automatic control of TPH). **FORTERRA HD** offers four hydraulic sections with electro-hydraulic flow control.

### CAB

Convenience and user-friendly ergonomics, these are the characteristics of the FORTERRA cabs. There are two types of driver's seat which can be chosen - with mechanical or pneumatic suspension. **FORTERRA HD** is equipped with a multifunctional panel with integrated joystick to ensure the intuitive control of the tractor. **FORTERRA HD** (in standard) and **FORTERRA HSX** (optionally) is equipped with the suspended front-axle with the independent suspension of each wheel. In combination with the suspended cabin (standard on HD), it provides a comfortable ride. Thanks to the bowden controlled shifting in **FORTERRA HD** the noise is reduced in the cab and lower control force is required.

MODEL	UNITS	FORTERRA CL					FORTERRA HSX			FORTERRA HD		
		100	110	120	130	140	120	130	140	130	140	150
ENGINE												
Type	•	Stage V										
Max. / Rated power (ECE R120)	kW	70.4	78.4	86.2	93.2	100.2	86.2	93.2	100.2	93.2	100.2	108.2
	HP	95.7	106.6	117.2	126.7	136.2	117.2	126.7	136.2	126.7	136.2	147.1
Rated speed	rpm	2,200										
No. of cylinders / valves	•	4/16										
Displacement	cm³	4,156										
Max. torque	Nm	420.0	471.5	507.3	557.6	606.6	507.3	557.6	606.6	557.6	606.6	607.1
Torque rise	%	42	43	40	42	43	40	42	43	42	43	32
TRANSMISSION												
Type	•	Reversing 4-stage with 2 ranges and automatic 3-stage multiplier					Reversing 5-stage with 2 ranges and automatic 3-stage multiplier					
Number of gears	•	24/18					30/30					
Reverser	•	Mechanical (SynchroShuttle)					Electrohydraulic (PowerShuttle)					
Multiplier	•	3-stage PowerShift										
Clutch button	•	-					Clutch button located on the shift lever (PowerClutch)					
Max. speed	km/h	40					40 ECO					
PTO												
Type	•	Multi-plate PTO clutch										
Rear PTO revolutions	rpm	Independent (540/540E/1,000/1,000E) / Independent & ground speed (540/1,000)										
HYDRAULICS												
Gear pump capacity	l/min	70								85		
Rear hydraulic remotes (Quickcouplers)	•	6+1								8+1		
External hydraulic circuits control	•	Mechanically controlled								Electrohydraulically controlled sections (flow & timing)		
THREE-POINT HITCH												
Type	•	Bosch electro-hydraulics with HitchTronic, 2 auxiliary cylinders										
Three-point hitch	•	Category II / Category III N <sup>OPT</sup>								Category III		
Max. lift capacity	kN	77					85					
Lifting capacity in full range	kN	69					75					
CAB												
Cab suspension	•	OPT								Standard		
Driver's seat	•	Mechanical suspended / Pneumatically suspended								Pneumatically suspended		
Heating / Air-Conditioning	•	Standard / OPT								Standard / Standard		
Heated mirrors and rear window	•	Standard										
UNDERCARRIAGE												
Drive system	•	4WD										
Front driven axle	•	Solid					Solid / Suspended <sup>OPT</sup>			Suspended		
Fuel tank / Urea tank	l	230 / 28					270 / 28					
Front mudguards	•	Fixed or Pivoting <sup>OPT</sup>								Pivoting		
OTHER SPECIFICATION												
Operating weight <sup>1</sup>	kg	4,300 - 5,200					4,300 - 5,310			4,980 - 5,700		
Max. tech. permissible weight	kg	8,000					9,000			10,000		
Length * / Width ** / Height max.	mm	5,016 / 2,383 / 2,943					5,116 / 2,383 / 2,943			5,275 / 2,496 / 3,053		
Length / Width / Height min.	mm	3,980 / 2,200 / 2,915								4,115 / 2,177 / 3,008		
Wheelbase	mm	2,490					2,590			2,720		

Other optional equipment: Front PTO, front 3PH with front hydraulic remotes, trailer brakes (pneumatic 2+1 hoses or hydraulic & pneumatic 2+0 hoses), radio, LED working lights, beacons, wheels<sup>OPT</sup> Optional<sup>1</sup> Without front and rear ballast \* Max. length with 3PH and front ballast \*\* Max. width without mirrors





## CRYSTAL

The CRYSTAL represents the most powerful and the best-equipped tractor in the ZETOR portfolio. The six-cylinder engine with up to 171 HP predestines it for work on medium and large-sized farms, for use in crop production, for aggregation with various farm machines, as well as for transport and other applications.

### ENGINE

Six-cylinder engines made by DEUTZ AG guarantee the high power of the CRYSTAL tractors. The engines deliver a maximum output 171 HP. High torque rise guarantees high engine tenacity. The engines great properties are its excellent pull at low RPM and high torque. When working in difficult conditions and at dropping RPMs the power remains almost constant while the torque increases, which provides the tractor with the necessary strength at increasing driving resistance.

### TRANSMISSION

The five-gear fully synchronised transmission has two driving speed ranges (standard and reduced speed) and a three-stage PowerShift. There are a total of 30 forward gears and 30 reverse gears. The driving direction is changed by a hydraulic reverser lever (**PowerShuttle**) without the need to press the clutch pedal (reversing

under load). The innovated ECO 40 transmission allows users to reach top speeds (40 km/h) at lower RPMs (1800 RPM). This optimisation results in fuel savings of up to 18% and decreases the noise and engine wear.

### CAB

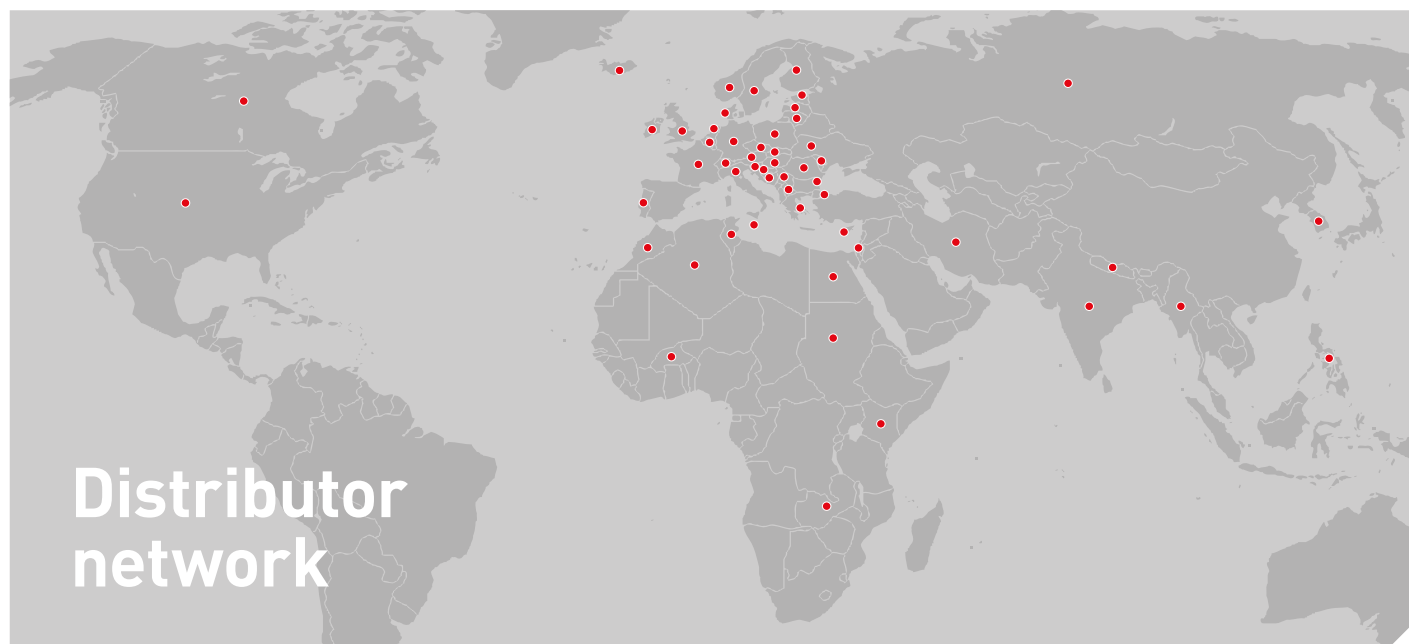
The suspended cabin along with suspended axle delivers a comfortable driving experience. The cabin is spacious and comfortable. The quiet engine operation will literally take you by surprise. All controls are placed so as to provide the driver with good access – on the right panel or steering column. The new pneumatically suspended PROFI seat offers the seat heating, horizontal suspension, lumbar back and adjustable head support, elbow rests and other elements for high comfort. Thanks to the bowden controlled shifting the noise is reduced in the cab and lower control force is required.

### HYDRAULICS





The three-point hitch is controlled via the Bosch electro-hydraulic system (EHR) with **HitchTronic** function, which allows the automatic regulation of the rear three point hitch. CRYSTAL is equipped with a 4-section hydraulic distributor with electro-hydraulic control. Category III hitches are compatible with a broad variety of attachments.

MODEL	UNITS	CRYSTAL HD 170
ENGINE		
Type	•	DEUTZ TCD 6.1 L6 (Stage V)
Max. power (ECE R120)	kW	125.7
	HP	170.9
Rated speed	rpm	1,800
Rated power (ECE R120)	kW	120.3
	HP	163.6
Rated speed	rpm	2,100
No. of cylinders / valves	•	6/24
Displacement	cm <sup>3</sup>	6,057
Max. torque	Nm	739.0
Torque rise	%	36
TRANSMISSION		
Type	•	ECO 40 transmission
Number of gears	•	30/30
Reverser	•	Electrohydraulic (PowerShuttle)
Multiplier	•	3-stage PowerShift
Clutch button	•	Clutch button located on the shift lever (PowerClutch)
Max. speed	km/h	40 ECO
PTO		
Type	•	Multi-plate PTO clutch with feedback controlled starting
Rear PTO revolutions	rpm	Independent (540/540E/1,000/1,000E)
HYDRAULICS		
Pump capacity	l/min	85 (gear)
External hydraulic circuits control	•	Electrohydraulically controlled sections (flow & timing)
Rear hydraulic remotes (Quickcouplers)	•	8+1
THREE-POINT HITCH		
Type	•	Bosch electro-hydraulics with HitchTronic function, 2 auxiliary cylinders
Rear three-point hitch	•	Category III
Max. lift capacity	kN	87
Lifting capacity in full range	kN	78
CAB		
Suspension	•	Suspended cab
Driver's seat	•	Comfort seat pneumatic suspension, heated
Controls	•	Multifunctional panel with joystick
Cab equipment	•	Air-Conditioning and heating, heated mirrors and rear defroster, AM/FM Radio, passenger seat with seatbelt
UNDERCARRIAGE		
Drive system	•	4WD
Front driven axle	•	Suspended with independent suspension of half-axes
Operating brakes	•	Rear brakes: independent pneumatically controlled brakes Front brakes: hydraulically controlled brakes
Fuel tank / Urea tank	l	300/32
OTHER SPECIFICATION		
Operating weight <sup>1</sup>	kg	5,760 - 6,500
Max. technically permissible weight	kg	10,000
Length * / Width ** / Height min. - max.	mm	4,388 - 5,410 / 2,515 - 2,550 / 3,045 - 3,050
Wheelbase	mm	2,850

Other optional equipment: Front PTO, front 3PH with front hydraulic remotes, trailer brakes (pneumatic 2+1 hoses or hydraulic & pneumatic 2+0 hoses), LED working lights, beacons, wheels <sup>OPT</sup> Optional <sup>1</sup> Without front and rear ballast \* Max. length with 3PH and front ballast \*\* Max. width without mirrors



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