

MTZ - KIROVETS

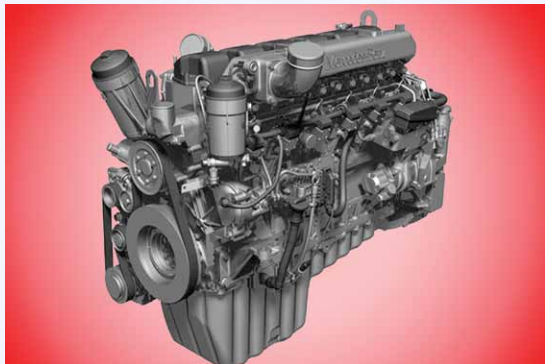
MTZ K744 (435 hp)[©]

Articulated Tractor

- Mercedes-Benz engine Tier 4F: one of most fuel efficient motors on the market.
- 16x4 Semi Power Shift Transmission.
- 74 gpm Bosch-Rexroth hydraulics with fingertip controls.
- Optimal weight distribution (52/48), ideal for pulling implements.
- 4 WD with automatic "no slip" differential locks.
- Proven design - Most popular high powered tractor in the world: over 500,000 units produced since 1962.
- Includes many extra features as part of the standard package: 3pt Hitch, Increased hydraulics, Differential locks, Upgraded Drawbar and more.
- Solid mechanical design of the power train.
- Easy to service and maintain with basic tools, available on most farms.
- Track Version (30" or 36") model available.



● Mercedes-Benz OM 470 engine



Mercedes-Benz diesel engine: 435 hp, 4 strokes, 6 cylinders in-line, turbocharged.

OM470 provides dependable and cost effective performance.

- High torque at low RPM
- Good fuel efficiency
- Tier 4 Final, low DEF consumption
- 600 hour intervals between oil changes

● Kirovets Transmission: 16F - 8R within 6 Ranges



Kirovets transmission is a mechanical transfer gearbox with hydraulic control. It provides the precise speed best suited for your operation.

The speed transmission offers 16 forward and 8 reverse gears by using 6 ranges (4 Forward, 2 Reverse). Within each range Power Shift allows smooth gear shift on the move without breaking the power flow. Gears are produced with ultra-fine tolerances, to ensure better fit and extended life expectancy of the transmission.

● 4 WD with self-locking “no slip” differential



Kirovets tractor driving axles include “no slip” self-locking differentials. They ensure unsurpassed off-road capability in the most challenging conditions.

Planetary reduction gears transfer the power directly to the wheels.

The benefits of such design among others is good accessibility for maintenance.

The braking system is air controlled.

● Smooth Ride and Shock Protection of main components

First thing users notice is the smooth ride of the tractor, because the K744 offers triple protection from shocks and impacts:

- Leaf spring suspension.
- Air Ride (option)[†] or Special rubber/metal mounting pads under cab.
- Transmission and hydraulics fingertip controls platform.

To reduce long term damage from shocks and vibration, the engine, transmission, cab and fuel tank are installed on frame using rubber/metallic pads which extends life expectancy of the components.



Leaf Spring Suspension



Rubber/Metallic Pads



Fingertip Controls

● Proven design - Most popular high-powered tractor in the world

Petersburg Tractor Works (PTZ, manufacturer of the "Kirovets") was established in 1801, started producing licenced Fordson tractors in 1924. The plant has been mass producing the Kirovets model with total production since 1962 exceeding 500,000 units. Kirovets tractors have been in use on farms in the USA and Canada since the 80's. Factory original parts are available for all old models allowing the farmers to maximize their return on original investment.



● Operator's Station offers modern fingertip control center

Panoramic view cab. Centrally located high quality operator's seat with adjustable suspension. The Operator Station is comfortable, convenient, quiet and safe. New control platform puts all controls at fingertip position. No mechanical connection to gear box means lower vibration and quieter cab. Pressurised cab is cushioned, with cabin metal shielded by modern vibration-absorbing rubberized and soundproofing materials. Tilting and adjustable steering column. Heat, Air conditioner and radio are standard.



● Cat IV 3 pt hitch⁺ and wheels options

3-point hitch⁺, category IV and Walterscheid type automatic lower link hooks for simple mounting of Implements. The multipurpose hitch is suitable for implements of category IV and III (optional adapters may be required) Optional 1,000 rpm PTO⁺ is available.

To reduce soil compaction, there is an optional kit⁺ for mounting Duals. You can also add Flotation Tires⁺ or convert your current wheels to Crawler Tracks⁺. Wheels to track, or tracks to wheels conversion can be done on farm with basic tools. No need for a second Tractor.



● Optimal weight distribution

Optimal weight distribution (52/48 ideal for pulling implements). High pull power combined with low ground pressure.

- Front frame weights.
- Rear frame weights.
- Drawbar is rated for 11,000 lbs



Front Weights



Rear Weights



11,000 lb drawbar, 2" Pin

MTZ-Kirovets K744 - 435 hp Articulated Tractor

GET MORE DONE WITH LESS. Less hassle, less fuel, less maintenance – and more power. Reliable Mercedes-Benz engine is among industry leaders in fuel economy and low DEF consumption. Regular maintenance is less of a hassle as well, because it's performed standing at ground level, and less often than with any competitive tractor. Engine Oil only needs to be changed every 600 hours. And you use one oil for all hydraulic operations.



Track Version Available

SPECIFICATIONS

Engine	
Manufacturer	Mercedes-Benz
Model	OM470 (MTU 1100 series)
Horsepower*	435 hp Engine 125/252/340 PTO, for PTO shafts 35/45/55 mm (1¼"/1½"/1¾")
Displacement	10.6L (647 cu. in.)
Max. Torque, Nm@RPM	2100 @ 1300
Rated Speed RPM	1800
Type	6 cyl. In line, 24 valves, Tier 4
Aspiration	Turbocharged / Air-to-Air aftercooled
Fuel Consumption	151 gr/hp hr (205 gr/kWt hr)
Oil change interval	600 hours
Electrical Equipment	
Alternator	28V 35/80A
Starter rated voltage	24V 7,000 W
Batteries	2 x 12V 190Ah 1100A(CCA)
Transmission	
Type	Semi Powershift
No. of Gears	16F (in 4 Ranges) / 8R (in 2 Ranges)
Speed Range*	Forward: 4.24 to 34.4 km/h (2.63 to 21.4 mph)
Reverse	5.27 to 25.7 km/h
Reverse	3.27 to 15.9 mph
Standard Wheels	Reverse: 5.27 to 25.7 km/h
Tracks: speed is lower by 1.2x	(3.27 to 15.9 mph)
4WD	
Front Axle	Full-time
Final Drive	Planetary
Rear Axle	Manually engaged
Differential	Self-locking
Suspension in front	Leaf springs with double stroke shock absorbers
Cab	
Built-in ROPS, thermo/vibro/noise insulated. Radio, Heat and Air Conditioning	
Capacities	
Fuel Tank	1 Tank, 800 L (211.3 gal.)
Hydraulic System	175 L (46.2 gal.)
Cooling System	60 L (15.9 Gal.)
PTO* (Optional)	1,000 rpm, 20 spine, 45 mm (1¼")

Hydraulic System		Closed Center, Load Sensitive (LS)					
Pressure Maximum	210 bar (3,046 psi)						
At the coupler	185 bar (2,683 psi)						
Standard Pump	180 L/min (47.6 gpm)						
Optional Pump [‡]	280 L/min (74 gpm)						
Standard Pump maximum available flow at single valve	90 L/min (23.8 gpm)						
Optional Pump maximum available flow at single valve	140 L/min (37 gpm)						
Remote Valves	4 free + 1 connected to 3pt hitch						
Steering pump	80 l/min (21 gpm)						
3 point hitch[‡]		Cat IV					
Lift capacity @ hitch point	9000 Kg (19,841.6 lbs)						
Return line from hydraulic motor, standard, low restriction, straight to hydraulic tank.							
Brakes		Air power - dry drum, 2 independent circuits plus spring actuated parking brake					
Tires							
Front/Rear Standard	710/70R38						
Front/Rear Optional [‡]	800/65R32 (30.5R32)						
Weights							
Weight (Singles/Duals [‡])	17,000/19,200 kg (37,478/42,240 lbs.)						
Weight distribution (Singles)							
Front axle	8,800 kg (19,001 lbs.)						
Rear axle	8,200 kg (18,078 lbs.)						
Weight distribution (Duals [‡])							
Front axle	9,900 kg (21,826 lbs.)						
Rear axle	9,300 kg (20,503 lbs.)						
Dimensions							
Length A	Wheelbase B	Ground Clearance C	Fordable Depth D	Width E	Wheel Tread F	Height G	Minimum turning radius
7.35 m 24.1 ft	3.75 m 12.3 ft	0.50 m 1.64 ft	1.00 m 3.28 ft	2.88 m 9.4 ft	2.10 m 6.9 ft	3.88 m 12.7 ft	7.96 m 26.1 ft



Head Office: 3-1136 Centre St., Ste. 124, Thornhill, Ontario, L4J 3M8 Canada

Tel: 1-855-2GO-4MTZ (1-855-246-4689)

Fax: 1-647-933-9066

E-mail: info@mtzequipment.com

Web: www.mtzequipment.com

Warehouse: 2682 Highway 34, Hawkesbury, Ontario, K6A 2R2 Canada

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