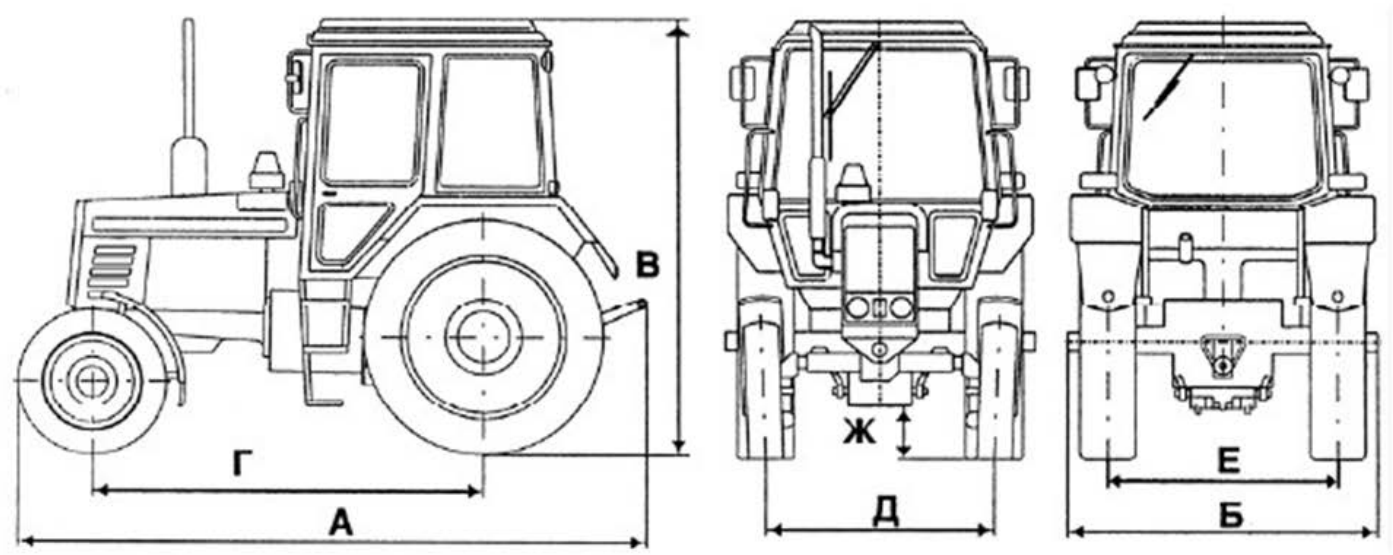
2 TECHNICAL DATA

Overall dimensions



Description		Value
А	Length (including the rear hitch linkage), mm	4710±50
Б	Width, mm	2250±50
В	Height, mm	3000±50
Г	Base of the tractor	2850±30
Д	Wheel track of the tractor over the front wheels	1540...2090
Е	Wheel track of the tractor over the rear wheels	1600...2440
Ж	Ground clearance under FDA, mm	455 +5
Tractor weight (as shipped ex-Works), kg		5800±100
Fording,m		0.85
Maximum permissible weight of towed trailer on a 12 deg max downgrade, t		15

ENGINE

Model	Д-260.1	Д-260.1S2
Manufacturer	MMP (Minsk motor plant)	MMP (Minsk motor plant)
Type	Four-stroke, in-line, turbo-charged	Four-stroke, in-line, turbo-charged
Number of cylinders	6	6
Firing Sequence	1-5-3-6-2-4	1-5-3-6-2-4
Cylinder diameter	110 mm	110 mm
Piston Stroke	125 mm	125 mm
Displacement Volume	7,12 l	7,12 l
Compression Ratio	15,0	17.0
Cooling System	Liquid, with coolant forced circulation from the centrifugal pump	Liquid, with coolant forced circulation from the centrifugal pump
Lubrication System	Combination Type	Combination Type
Oil cooling system	Oil-to-fluid heat exchanger built into the engine	Oil-to-fluid heat exchanger built into the engine
Engine Rated Power	114.0 kW	116.0 kW
Engine operating Power	109.0 +5,2 kW	111.0+-2,0 kW
Minimum stable idling speed, no	800±50 rpm	800±50 rpm

more than		
Crankshaft rated rotational speed	2100 rpm	2100 rpm
Crankshaft idling speed at, max	2275 rpm	2275 rpm
Crankshaft rotational speed at maximum torque	1400 rpm	1400 rpm
Maximum torque value	597 Nm	660 Nm

POWER TRANSMISSION

Clutch	--	Friction, dry-plate type, constantly closed, two-disk
Clutch control drive	–	Hydrostatic
Gearbox 16F+8R or 24F+12R	–	Multi-speed, constant-mesh gear, four-speed (КП 16F+8R) or six-speed (КП 24F+12R) shifting in each of 4 ranges of forward motion and 2 ranges of reversing by means of synchronizers
Rear axle	--	With main drive – a circle-arc bevel pinions pair, differential with locking and hub drives – cylindrical gear pairs and a planetary final drives
Front driving axle	--	Portal-type, with detachable half-axle housings or unit-cast bar, with final drive spur planetary reduction gearings. Main drive: circle-arc bevel pinions pair.
STEERING CONTROL		
Type	–	Hydrostatic
Type of the feed pump	–	Gear-type
Displacement volume	cm^3/rev.	14 – 16
Rated pressure	MPa (kgf/cm^2)	16 (160)
Direction of rotation	–	Left
Type of the metering pump	–	Gerotor-type
Displacement volume	cm^3/rev.	160
Safety valve adjustment pressure	MPa (kgf/cm^2)	14.0 (140) (Two hydraulic cylinders)
Pressure of anti-hammering valves	MPa (kgf/cm^2)	22.5 (225)
Type of the turn mechanism	–	Two differential hydraulic cylinders ∅50x200 mm
Brake control drive	–	Hydrostatic, selective
Brakes	–	8-disk brakes operating in an oil bath and acting on the rear wheels and, through the FDA drive, the front wheels. The control is interlocked with the trailer's brakes.

Auxiliary parking brake	–	Wet-friction type, combined with the service brakes, with a separate mechanical drive. The control is interlocked with the trailer's brake pneumatic drive
Trailer's brake control drive	–	Pneumatic dual-line interlocked with the tractor brake controls
Pneumatic system pressure limited by a safety valve	MPa (kgf/cm^2)	0.85…1.0 (8.5…10)
Regulator maintained pressure	MPa (kgf/cm^2)	0.65…0.80 (6.5…8.0)
ELECTRIC EQUIPMENT AND INSTRUMENTATION		
Rated voltage of		
on-board circuit	V	12
starting system	B	24
Supply circuit	–	12V storage batteries (2 pieces) each 120 Ah connected in parallel; starting discharge current 880 A at -18°C; a 14 V, 1150 W alternator (for the Д-260.1 engine) or 2000 W (for the Д-260.1S2 engine) with a built in rectifier and voltage regulator; glow plugs
REAR PRO SHAFT		
Drive	–	Two-speed, independent, synchronous
Tail-piece rotational speed:		
independent drive	rpm	540 (PTO 1c and 1) at the engine rotational speed of 1924 rpm for transmitting the power of not more than 60 kW; and 1000 (PTO 3 and 2) at the engine rotational speed of 1910 rpm for transmitting the full power
synchronous drive	rev. per m of travel	3.8 and 6.2
Tail-piece dimensions and hand of rotation	–	PTO3 (20 splines); PTO1c (8 splines – on the SPTA kit); PTO2 (21 splines); PTO1* (6 splines). Clockwise
HYDRAULIC SYSTEM		
Type of the hydraulic system	–	Separate-modular, with BOSCH hydraulic units providing the possibility of the draft, position and combination control of agricultural machinery and dampening of farm implement oscillations when in the

		transport position.
Pump	–	Gear-type, clockwise
Model	–	НШ32-3, УКФ-3, Д-3
Drive	–	From the engine, through an independent PTO drive pinion.
Pump capacity, max.	l/min	55
Safety valve adjustment pressure	MPa	
(kgf/cm2)	20–2,0	
(200–20)		
Hitch linkage cylinders (2 pieces)	mm	Ц90х250
Integral BOSCH unit comprising:	–	3-section, 4-position flow-through type distributor manufactured by the BOSCH Company and EHR-23LS electrohydraulic slide-valve regulator
Supply voltage of the regulator electromagnets	V	12
REAR HITCH LINKAGE		
Hitch linkage mechanism	–	Articulated four-link chain, Category 3
Lifting capacity with the centre of gravity of the load at the distance of 610 mm from the suspension axis	kN	
(kgf)	46	
(4600)		
HAUL-AND-DRAW COUPLER		
Type	-	Universal; including a towing gear (hitch clevis) and a “Python” coupling device (optionally), as well as coupling mechanism (drawbar)
Towing mechanism (ТСУ-3В)	-	Lift-type, height-adjustable
PTO end-face-to coupling	mm	325

point distance in horizontal plane		
Ground surface-to-horizontal axis of the hitch clevis	mm	425…885 (at 65 mm intervals)
Tyres (standard):		
front wheel		420/70R24
rear wheel		520/70R38

Attention! The main details and units have marks. When exchanging of such details and units make registration in the passport of the tractor obligatory, otherwise the tractor will be withdraw from the warranty.