



PRODUCT CATALOG

TRACTORS AND SPECIAL-PURPOSE
MACHINERY



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COMPACT AND SMALL-SIZE TRACTORS

Power tillers

100 series

300 series

400 series

600 series



POWER TILLER BELARUS 09/012



The BELARUS 09 power tiller is best suited for personal plots and irregularly-shaped fields. Small sizes, a wide range of agricultural units and accessories for public service make this power tiller an excellent helper in household plots, summer cottages, public utilities. Having a full-fledged mechanical transmission with a differential lock, a power take-off shaft, these power tillers can perform the entire range of agricultural, transport and utility operations.

Basic equipment:

Ignition system – manual.
Gearbox – mechanical, fixed-ratio.
Differential lock – positive.
1200 rpm rear continuous PTO.
Trailing appliance – universal coupler STs-00.010-01.

Manufacturer:

OJSC "Smorgon Assembly Plant"

SPECIFICATIONS

Gearbox	mechanical
Number of gears:	
forward/reverse	4/2
Travel speed, km/h:	
forward/reverse	2.6–11.4/3.0–5.35
Overall dimensions, mm:	
length	1780
width	846
height	1070
Adjustable track, mm	450, 600, 700
Max. weight of towed trailer, kg	300
Agrotechnical clearance	295
Weight, kg	176
Tires	6L-12 or 6.5-12
Minimum turning radius, m	1

ENGINE VERSIONS

Brand	Power 09	Power 012
WEIMA 177F	6.6 (9.0) kW (hp)	
WEIMA 188F		8.5 (11.5) kW (hp)
LIFAN 177F	6.6 (9.0) kW (hp)	
LIFAN 188F		9.6 (13.0) kW (hp)
LIFAN 190F		11.0 (15.0) kW (hp)
RATO R270	6.6 (9.0) kW (hp)	
RATO R390E	9.6 (13.0) kW (hp)	9.6 (13.0) kW (hp)

ATTACHABLE IMPLEMENTS

Harrow cultivator KB-1.6



Trailer for power tiller



Rotary tiller FR-00010



Rotary mower KRM-1



General-purpose ridge plow OU-00.000-01



Snow plow SN-1M



General-purpose plow
PU-00.000-01



COMPACT TRACTOR BELARUS 132/132-01

The BELARUS 132 compact tractor is best suited for personal plots and irregularly-shaped fields. Small sizes, a wide range of agricultural units and accessories for public service make this tractor an excellent helper in household plots, summer cottages, public utilities. Having a full-fledged 4x4 mechanical transmission with a differential lock, a power take-off shaft and a hydraulic lift linkage, these tractors can perform the entire range of agricultural, transport and utility operations.

Basic equipment:

Electric starter ignition system by accumulator battery, and manual.
All-wheel drive 4x4 (disengageable rear axle).
Mechanical, fixed-ratio gearbox.
Articulated frame.
Rear hydraulic lift linkage.
Two-speed PTO.

Manufacturer:

OJSC "Smorgon Assembly Plant"

ENGINE VERSIONS

Brand	Power 132/132-01
WEIMA WM188FE/P	9.7 (13.0) kW (hp)
LIFAN 188FD	9.6 (13.0) kW (hp)
RATO R390E	8.76 (12.0) kW (hp)

ATTACHABLE IMPLEMENTS

Trailer P05.02



Cultivator KTD-1.3



Small municipal machine



Small-size mower KTM-00.000



Tractor harrow BT-1.6



Rototiller FR-00700B



General-purpose ridge plow OU-00.000



General-purpose plow PU-00.000



SPECIFICATIONS

Number of gears:	
forward/reverse	4/3
Travel speed, km/h:	
forward/reverse	2.83-17.72/4.03-12.94
Agrotechnical clearance, mm	295
Adjustable track, mm	600, 700, 840
Base, mm	1030
Turning radius	
with max. size of track, m	2.5
Weight (operating weight with ballast), kg	532
Specific fuel consumption, g/kW*h	374
Overall dimensions:	
length/width/height	2500/1000/2000

COMPACT TRACTOR

BELARUS 132MT



The BELARUS 132MT compact tractor is designed for plowing light soils, harrowing, tilling, inter-row cultivation of potatoes and beets, haying, transporting goods, for stationary work driven by a power take-off shaft, as well as for use in orchards and vegetable gardens, household plots, etc. The tractor is equipped with hydrostatic steering, which makes it possible to operate the tractor more comfortably and with less effort.

Basic equipment:

Electric starter ignition system by accumulator battery, and manual.

All-wheel drive (disengageable rear axle).

Mechanical, fixed-ratio gearbox.

Rear hydraulic lift linkage.

Two-speed PTO.

Manufacturer:

OJSC "Smorgon Assembly Plant"

SPECIFICATIONS

Engine, gasoline	LIFAN 190FD
Engine power, kW (hp)	11.0 (15.0)
Weight, kg	
operating without ballast weights	500
operating with ballast weight	570
Number of gears:	
forward/reverse	4/3
Travel speed, km/h	
forward/reverse	2.96–18.46/4.20–13.47
Overall dimensions, mm	
length	2500
width	1000
height	2000
Agrotechnical clearance	300
Track size, mm	700, 770, 840
Base, mm	1125
Turning radius with max. track size, m, max.	3.25
Tires (basic configuration):	
front wheels	7.00-12
rear wheels	7.00-12

Change for tires of other brands is possible.

Change for an engine of other brand with similar specifications is possible.



COMPACT TRACTOR BELARUS 112

COMPACT AND SMALL-SIZE TRACTORS 100 series

The BELARUS 112 compact tractor is best suited for personal plots and irregularly-shaped fields. Small sizes, a wide range of agricultural units and accessories for public service make this tractor an excellent helper in household plots, summer cottages, public utilities. Having a full-fledged 4x4 mechanical transmission with a differential lock, a power take-off shaft and a hydraulic lift linkage, these tractors can perform the entire range of agricultural, transport and utility operations.

Basic equipment:

- Electric starter ignition system by accumulator battery, and manual.
- All-wheel drive 4x4 (disengageable rear axle).
- Front axle differential lock.
- Articulated frame.
- Mechanical, fixed-ratio gearbox.
- Rear hydraulic lift linkage.
- Steering hydraulic booster.
- Two-speed PTO.

Manufacturer:

OJSC "Smorgon Assembly Plant"

ENGINE VERSIONS

Brand	Power 112
WEIMA WM190FE/P	11.7 (16.0) kW (hp)
LIFAN 190FD	11.0 (15.0) kW (hp)
LIFAN 188FD	9.6 (13.0) kW (hp)
RATO R420E	9.53 (13.0) kW (hp)

ATTACHABLE IMPLEMENTS

Trailer P05.02



Cultivator KTD-1.3



Small municipal machine



Small-size mower
KTM-00.000



Tractor harrow BT-1.6



Rototiller
FR-00700B



General-purpose ridge plow
OU-00.000



General-purpose plow
PU-00.000



SPECIFICATIONS

Number of gears:	
forward/reverse	4/3
Travel speed, km/h	
forward/reverse	2.96–18.46/4.2–13.47
Agrotechnical clearance, mm	300
Adjustable track, mm	700, 770, 840
Base, mm	1030
Turning radius	
with max. track size, m	3.25
Weight (operating with ballast weight), kg	570
Specific fuel consumption, g/kW*h	374
Overall dimensions, mm	
length/width/height	2500/1000/2000

COMPACT TRACTOR BELARUS 152



The BELARUS 152 compact tractor is best suited for personal plots and irregularly-shaped fields. Small sizes, a wide range of agricultural units and accessories for public service make this tractor an excellent helper in household plots, summer cottages, public utilities. Having a full-fledged 4x4 mechanical transmission with a differential lock, a power take-off shaft and a hydraulic lift linkage, these tractors can perform the entire range of agricultural, transport and utility operations.

Basic equipment:

Electric starter ignition system by accumulator battery, and manual.
All-wheel drive 4x4 (disengageable rear axle).
Modernized gear changing mechanism.
Bigger wheel diameter.
Rear hydraulic lift linkage.
Frame structure.

Manufacturer:

OJSC "Smorgon Assembly Plant"

MAIN PARAMETERS AND DIMENSIONS

Specific fuel consumption	
at operating power, g/kW*h	374
PTO output in the PTO mode of 1000 rpm, kW	7.7
Operating weight, kg	650
Clearance, mm, min:	
agrotechnical under rear wheel tubes	300
agrotechnical under front axle	325
road	280
Track size, mm:	
between front wheels	755...1050
between rear wheels	710...1010
Least turning radius	
at minimum track size, m	2.5
Tractor base, mm	1125
Max. fordable depth, m	0.25
Overall dimensions, mm	
length	2500
width	985
height to steering wheel	1360
(to acr top)	(1970)
Tires (basic configuration):	
front wheels	210/75R13
rear wheels	210/75R13

Change for tires of other brands is possible.

ENGINE VERSIONS

Brand	Power 152
WEIMA WM190FE/P	11.7 (16.0) kW (hp)
LIFAN 190FD	11.0 (15.0) kW (hp)
RATO R420E	9.53 (13.0) kW (hp)

TRANSMISSION

Clutch	multidisk, oil-immersed
Gearbox	mechanical, fixed-ratio
Number of gears:	
forward/reverse	4/3
Tractor travel speed on tires of basic configuration, km/h:	
forward/reverse	2.96-18.46/4.2-13.47

HYDRAULIC LIFT LINKAGE

Versatile, remote-cylinder, with 3-point articulated hitch.

Maximum lifting capacity at outreach of 305 mm	
from suspension point, kg	200
Maximum pressure, MPa	14



SMALL-SIZE TRACTOR BELARUS 211

The small-size tractor BELARUS 211 is the simplest model in the line of machinery, but at the same time, its technical capabilities, ease of use and equipment allow to perform the whole range of agricultural operations.

Basic equipment:

Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.
Front non-driving axle.
Safety arc.

Optional equipment:

Front lift linkage.
Front PTO.
Front ballast weights.
Front driving axle with automatic engagement when rear wheels slip.

Manufacturer:

OJSC "Bobruisk Plant of Tractor Parts and Units"



ENGINE

Type	diesel
Model	Laidong KM385BT
Power, kW (hp)	18.4 (25)
Rated speed, rpm	2350
Number of cylinders, pcs.	3
Displacement, l	1.5
Max. turning torque, Nm	86
Specific fuel consumption at rated power, g/kW*h	264
Torque backup, %	15

TRANSMISSION

Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	8/4
Travel speed, km/h forward/reverse	3.1–25.2/5.5–13.3
Rear PTO: continuous l, rpm	540

DIMENSIONS

Overall length, mm	3050
Width, mm	1300
Height to arc, mm	2280
Wheel base, mm	1660
Track, mm:	
between front wheels	1000; 1200; 1350
between rear wheels	1000; 1160
Agrotechnical clearance, mm	435
Least turning radius (without braking), m	3.6
Operating weight, kg	1500
Tire sizes:	
4x4 drive: front/rear	7.5L-16/12.4L-16
4x2 drive: front/rear	6.50-16/12.4L-16

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point, kg	870
Pump performance, l/min	17
Capacity of hydraulic system, l	9

BELARUS 300

The tractor is designed to do various jobs in agriculture in combination with mounted, semi-mounted and trailed machines, in industry and transportation. Small dimensions allow the tractor to be used in greenhouses and small spaces.

311/311M

Basic equipment:

Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.
Front non-driving axle.
Safety arc.

Optional equipment:

Front lift linkage.
Front PTO.
Front ballast weights.



311 311M

321/321M

Basic equipment:

Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.
Front driving axle.
Safety arc.

Optional equipment:

Tow hitch TSU-1M.
Combined trailing appliance (pendulum and hydraulic hook).
Front ballast weights.
Fast cut-off clutches.
Coupler hoses.
Front lift linkage.
Towing yoke.



321 321M

320.4*/320.4M*

Basic equipment:

Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.
Front driving axle.
Cabin.

Optional equipment:

Front lift linkage.
Front PTO.
Front ballast weights.
Coupler hoses.
Bracket with cut-off clutches.
Tow hitch TSU-1M.



320.4 320.4M



BELARUS 300



SPECIFICATIONS

ENGINE

		311/311M	321/321M	320.4/320.4M
Type*		A* / B*		C* / B*
Power	kW (hp)	24 {33}/26 {35}		26 {35}
Crankshaft rated speed	rpm			3000
Number of cylinders	pcs.			3
Displacement	l	1.617/1.600		1.600/1.617
Max. turning torque	Nm	100/94		94/100
Torque backup	%	15/20		20
Fuel tank capacity	l	25		32

TRANSMISSION

Number of gears:				
forward/reverse		8/4		16/8
Travel speed:				
forward	km/h	3.1-25.2		1.0-25.2
reverse	km/h	5.5-13.3		1.8-13.3
Rear PTO:				
continuous I	rpm			540
continuous II	rpm	—		1000
ground-speed I	rev/m of travel	—		3.4
ground-speed II	rev/m of travel	—		6.3

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	870		1100
Maximum pressure	MPa			20
Pump performance	l/min			17
Capacity of hydraulic system	l	10		11

DIMENSIONS AND WEIGHT

Overall length (RLL in transport position)	mm			3050
Width (between rear wheels)	mm	1300		1550
Height to cab top (arc top)	mm	2280		2150
Tractor base	mm	1660	1690	1690
Track:				
between front wheels	mm	1000, 1200, 1350	1060, 1210	1000, 1200, 1350, 1260, 1410
between rear wheels	mm	1000, 1160		1250, 1400
Agrotechnical clearance	mm			435
Least turning radius	m	3.6		3.7
Operating weight				
with cabin	kg	—		1770
without cabin	kg	1500		—
Tire sizes (standard):				
front wheels		6.5-16	7.5-16	7.5-16
rear wheels				12.4-16
Wheel arrangement		4x2	4x4	4x4

*A – Four-stroke diesel engine LIADONG (China). **Stage 0.**

*B – Four-stroke diesel engine MMZ-3LD (Belarus). **Stage II.**

*C – Four-stroke diesel engine BELARCO WR-335. **Stage IIIa.**

BELARUS 400 and 600

The BELARUS 422.4 and BELARUS 622 tractors are designed to do various jobs in agriculture in combination with mounted, semi-mounted and trailed machines, in industry and transportation. Small dimensions allow the tractor to be used in greenhouses, small spaces and on irregularly-shaped land plots.

422.4/622

Basic equipment:

The BELARUS 422.4 tractor is based on the BELARUS 622 tractor.
Low-profile cabin with cylindrical glass.
Gearbox 16x8.
Stage IIIa engine.
Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.

Optional equipment:

Front lift linkage.
Front PTO.
Front ballast weights.
Coupler hoses.
Tow hitch TSU-1M.
Bracket with cut-off clutches.



422.4 622

451/651

The BELARUS 451 and BELARUS 651 tractors are designed to do various jobs in agriculture in combination with mounted, semi-mounted and trailed machines, in industry and transportation in the countries of South America and South-East Asia.
Small dimensions, high road clearance, final drive with planetary reduction gear.

Basic equipment:

The BELARUS 451 tractor is based on the BELARUS 651 tractor.
Stage IIIa engine.
Canopy frame
Dry, single-disk clutch.
Mechanical gearbox with easily-engaging clutches.

Optional equipment:

Front lift linkage.
Front PTO.
Front ballast weights.
Coupler hoses.
Bracket with cut-off clutches.
Tow hitch TSU-1M (pendulum, hydraulic hook).
Efficient PTO 540e.



451 651



BELARUS 400 and 600



COMPACT AND SMALL-SIZE TRACTORS 400/600 series

SPECIFICATIONS

ENGINE

		422.4	622	451	651
Type*		C*	C*	C*	C*
Power	kW (hp)	36 (50)	44 (60)	36 (50)	44 (60)
Crankshaft rated speed	rpm	3000			
Number of cylinders	pcs.	4			
Displacement	l	2.2			
Max. turning torque	Nm	135	170	135	170
Specific fuel consumption at rated power	g/kW-h	238			
Torque backup	%	16	15	16	15
Fuel tank capacity	l	90		45	

TRANSMISSION

Number of gears: forward/reverse		16/8	
Travel speed:			
forward	km/h	1.2–36.6	1.3–40
reverse	km/h	2.1–19.5	2.3–21.6
Rear PTO:			
continuous I	rpm	540	540
continuous II	rpm	1000	1000
			(+continuous III, PTO 540e)
ground-speed I	rev/m of travel	3.2	2.9
ground-speed II	rev/m of travel	6.0	5.4 or 3.7

HYDRAULIC LIFT LINKAGE

Lifting capacity of			
rear linkage at suspension point	kg	2800	1700
front linkage at suspension point	kg	520	520
Maximum pressure	MPa		20
Pump performance	l/min		40
Capacity of hydraulic system	l	22	19

DIMENSIONS AND WEIGHT

Overall length	mm	3450	3270
Width	mm	1700	1675
Height to cab top	mm	2380	-
Height to canopy roof	mm	-	2320
Base	mm	1930	1900
Track:			
between front wheels	mm	1390, 1530	1260, 1410
between rear wheels	mm	1410, 1510, 1560, 1660, 1730, 1830	1300, 1350, 1450, 1520, 1620
Agrotechnical clearance	mm	560	470
Least turning radius	m	3.9	3.8
Operating weight	kg	4000	3000
Tire sizes (standard):			
front wheels		12.4R-16	9.50-20
rear wheels		360/70R24	14.9R24
Wheel arrangement		4x4	

*C – 4-stroke diesel engine BELARCO WR450/WR460T. Stage IIIa.

VERSATILE ROW-CROP TRACTORS

500 series

800 series

900 series

1000 series

1200 series

1300 series





BELARUS 500

These are the tractors for the countries with hot climate. They are designed for various agricultural work with mounted, semi-mounted and trailed machines and implements, as well as for transportation work.

510/512

Basic equipment:

Dry, single-disk clutch.
Steering hydraulic booster.
Front non-driving axle.
Mechanical gearbox 9x2.
Canopy frame.
Hydraulic system with depth control.

Optional equipment:

Tow hitch TSU-2 (hydraulic hook).
Combined trailing appliance (pendulum and hydraulic hook).
Rear wheel ballast weights.
Front ballast weights.
Fast cut-off couplings.
Coupler hoses.
Hydraulic system with draft and position control (draft regulator).



520/522

Basic equipment:

FDA with bevel reduction gear units.
Dry, single-disk clutch.
Steering hydraulic booster.
Mechanical gearbox 9x2.
Canopy frame.
Hydraulic system with depth control.

Optional equipment:

Tow hitch TSU-2 (hydraulic hook).
Combined trailing appliance (pendulum and hydraulic hook).
Rear wheel ballast weights.
Front ballast weights.
Fast cut-off clutches.
Coupler hoses.
Hydraulic system with draft and position control (draft regulator).



BELARUS 500



SPECIFICATIONS

ENGINE

		510/512	520/522
Type*		A*	
Model		D-244	D-242
Power	kW (hp)	42 (57)	46 (62)
Crankshaft rated speed	rpm	1700	1800
Number of cylinders	pcs.	4	
Displacement	l	4.75	
Max. turning torque	Nm	271	278
Specific fuel consumption at rated power	g/kW-h	235	
Torque backup	%	15	
Fuel tank capacity	l	130	

TRANSMISSION

Number of gears: forward/reverse		9/2	9/2 (on order – 18/4)
Travel speed:			
forward	km/h	1.44–26.5	1.53–28.0
reverse	km/h	3.18–7.1	3.38–7.55
Rear PTO:			
continuous I	rpm	540	540
continuous II	rpm	1000	-
ground-speed	rev/m of travel	3.4	

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	3000
Max. pressure	MPa	20
Pump performance	l/min	45
Capacity of hydraulic system	l	20.5

DIMENSIONS AND WEIGHT

Overall length (*without weights)	mm	3815*/3930*
Width (between ends of rear wheel axle shafts)	mm	1970
Height to top of canopy frame	mm	2550
Track:		
between front wheels	mm	1350–1850/1450–2000
between rear wheels	mm	1400, 1600, 1800, 2100
Agrotechnical clearance	mm	590
Least turning radius	m	3.8/4.1
Fordable depth	m	0.85
Operating weight	kg	3430/3640
Tire sizes (standard):		
front wheels		9.0-20/11.2-20
rear wheels		15.5R38
Wheel arrangement		4x2/ 4x4

*A – Diesel engine with direct fuel injection, without turbocharge.

BELARUS 572 and 90

The tractors are designed for various agricultural work with mounted, semi-mounted and trailed machines and implements, as well as for transportation work.

572

Basic equipment:

Hydraulic system with depth control.
Dry, single-disk clutch.
Portal-type front driving axle with bevel reduction gear units.
Mechanical gearbox.

Optional equipment:

Combined trailing appliance (pendulum and hydraulic hook).
Tow hitch TSU-2 (hydraulic hook).
Rear wheel ballast weights.
Front ballast weights.
Fast cut-off couplings.
Coupler hoses.
Canopy frame of the cabin.
Canopy base.
Updated design (plastic facing).
Synchronized gearbox.
Hydraulic system with draft and position control of tillage (draft regulator).



572



572

592.2

Basic equipment:

Hydraulic system with depth control.
Dry, single-disk clutch.
Front driving axle with planetary-spur reduction gear units.
Synchronized gearbox with reducing gear unit, doubling the number of gears.

Optional equipment:

Combined trailing appliance (pendulum and hydraulic hook).
Tow hitch TSU-2 (hydraulic hook).
Rear wheel ballast weights.
Front ballast weights.
Fast cut-off couplings.
Coupler hoses.
Oil-immersed brakes.
Hydraulic system with draft and position control of tillage (draft regulator).
Canopy frame of the cabin.



592.2

90/92*

Basic equipment:

Dry, single-disk clutch.
Hydraulic system with depth control.
Mechanical gearbox.

Optional equipment:

Combined trailing appliance (pendulum and hydraulic hook);
Tow hitch TSU-2 (hydraulic hook).
Rear wheel ballast weights.
Front ballast weights.
Fast cut-off couplings.
Coupler hoses.
Hydraulic system with draft and position control of tillage (draft regulator).

*Front driving axle.



90 92



BELARUS 572 and 90



VERSATILE ROW-CROP TRACTORS 500/800 series

SPECIFICATIONS

ENGINE

		572	592.2	90/92
Type*		A*		
Model		D-242	D-242C	D-243.1
Power	kW (hp)	46 (62)	47 (64)	66 (90)
Crankshaft rated speed	rpm	1800		2200
Number of cylinders	pcs.	4		
Displacement	l	4.75		
Max. turning torque	Nm	278	287	305
Specific fuel consumption at rated power	g/kW-h	235	238	235
Torque backup	%	15		
Capacity of fuel tanks	l	130		

TRANSMISSION

Number of gears: forward/reverse		18/4	14/4	18/4
Travel speed:				
forward	km/h	1.53–28.0		1.9–34.3
reverse	km/h	3.38–7.55		4.09–9.22
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		
ground-speed	rev/m of travel	3.4		3.36

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	3000		
Max. pressure	MPa	20		
Pump performance	l/min	45		
Capacity of hydraulic system	l	20		

DIMENSIONS AND WEIGHT

Length (without weights)	mm	3930		4030	
Width (between ends of rear wheel axle shafts)	mm			1970	
Height to cab top	mm	2800	2850	2450 (to canopy)	
Track:					
between front wheels	mm	1430–1990	1535–2120	1450–1850	1430–1990
between rear wheels	mm	1400–2100	1500–2100	1400–2100	
Agrotechnical clearance	mm	645	510	645	
Least turning radius	m	4.1	4.5	3.8/4.1	
Fordable depth	m			0.85	
Operating weight	kg	4000	4100	3460/3690	
Tire sizes (standard):					
front wheels		11.2-20		360/70R24	9.0/11.2-20
rear wheels		15.5R38		18.4R34	
Wheel arrangement		4x4		4x2/4x4	

*A – Diesel engine with direct fuel injection, without turbocharge.

BELARUS 800

The tractors are designed for various agricultural work with mounted, semi-mounted and trailed machines and implements, as well as for transportation work.

Optional equipment for all models:

Diaphragm clutch.
Reverse reduction gear unit.
Joystick control of the distributor.
Rear wheel ballast weights.
Front ballast weights.
Creeper gear.
Hydraulic system with draft and position control of tillage (draft regulator).
Combined trailing appliance (hydraulic hook, draw bar, pendulum).
Rear wheel twinning kit.
Additional seat.
Updated design (plastic facing).
Canopy frame, canopy base.

80.1/82.1

Basic equipment:

Front non-driving axle **(80.1)**. Portal-type front driving axle with bevel reduction gear units **(82.1)**. Dry, single-disk clutch. Mechanical gearbox with reducing gear. Air conditioner. **Stage II**.

Optional equipment:

Engine **Stage 0** or **Stage I**.
FDA with planetary-spur reduction gear units.

820

Basic equipment:

Front driving axle with planetary-spur reduction gear units. Dry, single-disk clutch. Mechanical gearbox with reducing gear. Air conditioner. Engine **Stage II**.

Optional equipment:

Engine **Stage 0** (D-243C) or **Stage I** (D-243S2).

892/892.2

Basic equipment:

Front driving axle with bevel reduction gear units **(892)**. Front driving axle with planetary-spur reduction gear units **(892.2)**. Mechanical gearbox with reducing gear. Air conditioner.

Optional equipment:

Hydraulic system with draft and position control of tillage (draft regulator).
Engine **Stage I** (D-245.5C).



80.1



82.1



820



820



892.2 892



892.2 892



BELARUS 800



VERSATILE ROW-CROP TRACTORS 800 series

SPECIFICATIONS

ENGINE

		801/821	820	892/892.2
Type*		A*/C*		A*/B*
Model		D-243S2/D-243		D-245.5
Power	kW (hp)	60 (81)		65 (88)
Crankshaft rated speed	rpm	2200		1800
Number of cylinders	pcs.	4		
Displacement	l	4.75		
Max. turning torque	Nm	298		397/404
Specific fuel consumption at operating power	g/kW·h	244/235		226
Torque backup	%	15		
Capacity of fuel tanks	l	130		

TRANSMISSION

Number of gears: forward/reverse		18/4		
Travel speed:				
forward	km/h	1.9–34.3	2.1–36.9	2.1–38.2/2.2–41.1
reverse	km/h	4.1–9.2	4.4–9.9	4.4–10.2/4.7–11.0
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		
ground-speed	rev/m of travel	3.44	3.36	3.44/3.36

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	3200		
Max. pressure	MPa	20		
Pump performance	l/min	45		
Capacity of hydraulic system	l	25		

DIMENSIONS AND WEIGHT

Length:				
without weights	mm	3840/3930	4030	3970/4030
with weights	mm	4120	4170	4120/4170
Width (between ends of rear wheel axle shafts)	mm	1970		
Height to cab top	mm	2780/2800	2850	
Tractor base	mm	2370/2450	2450	
Track:				
between front wheels	mm	1450–1850/1430–1990	1535–2120	1450–1970/1535–2120
between rear wheels	mm	1400–2100	1500–2100	
Agrotechnical clearance	mm	645	510	645/510
Least turning radius	m	3.8/4.1	4.5	4.1/4.5
Fordable depth	m	0.85		
Operating weight	kg	3770/4000	4100	4150/4250
Tire sizes (standard):				
front wheels		9.0-20/11.2-20	360/70R24	13.6-20/360/70R24
rear wheels		15.5R38	18.4R34	16.9R38/18.4R34
Wheel arrangement		4x2/4x4	4x4	

*A – Diesel engine with direct fuel injection, without turbocharge. **Stage 0.**

*B – Diesel engine with direct fuel injection, turbocharged. **Stage I.**

*C – Diesel engine with direct fuel injection, without turbocharge. **Stage II.**

BELARUS 82.3



ENGINE

Type	diesel, without turbocharge
Model	D-243S2
Power	60 (81)
Crankshaft speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Max. turning torque, Nm	298
Torque backup, %	15
Capacity of fuel tanks, l	130

TRANSMISSION

Clutch	dry, single-disk
Gearbox	mechanical
Number of gears:	
forward/reverse	14/12
Travel speed, km/h	
forward	2.4–35.2
reverse	2.2–17.6
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	3.4

DIMENSIONS

Overall length (without weights), mm	4030
Width, mm	1970
Height to cab top, mm	2850
Tractor base, mm	2450
Track, mm:	
between front wheels	1535–2120
between rear wheels	1500–2100
Agrotechnical clearance, mm	510
Least turning radius, m	4.5
Operating weight (without ballast weights), kg	4600
Tire sizes (standard):	
front wheels	360/70R24
rear wheels	18.4R34

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point, kg:	3200
Max. pressure, MPa	20
Pump performance, l/min	49
Capacity of hydraulic system, l	25

GENERAL INFORMATION

The tractor is designed for various agricultural work with mounted, semi-mounted and trailed machines and implements, as well as for transportation work.

Features:

New design alligator-style plastic facing provides ease of maintenance of the engine and its systems.

Separated lensed road headlights better illuminate elements of the road when driving at night.

LED working lights with increased luminous flux better illuminate the work area at night.

Beam-type front driving axle with larger wheels and bigger front ballast weights of 520 kg reduces slippage when working with heavy soil-cultivating units.

Muffler located along the cab post improves visibility.

81 horsepower D-243S2 engine complies with Stage-II environmental requirements.

Reinforced semi-frame allows the use of heavier mounted units.

Introduction of the cab front wall, made of profile tubes, has increased the strength of the cab frame and improved the visibility.

Upgraded cab suspension reduces noise and vibration in the workplace.

Modernized FDA drive has a multi-disk friction clutch which provides an increase in its reliability and longer life.

Disk-type PTO installed in the transmission allows you to work with the units in the mode of taking off more power.

Outlets of the hydraulic lines are installed in the center on the rear wall of the cabin for the convenience of connecting external units.

Modern instrument panel with a color LCD display, audio receiver, electrically controlled rear-view mirrors, air conditioning in a standard configuration reduce operator fatigue.

Transmission is equipped with a diaphragm clutch with ceramic-metal disks, which made it possible to reduce effort on the clutch pedal and increase durability of this unit.

FDA, differential lock and PTO are controlled with buttons.

"Wet" brakes ensure efficient and long-life operation of the tractor brake system.

Synchronized gearbox makes it possible to effectively use the tractor for transportation, while the reversing and reducing gear expands the scope of tractor application, in particular with units that require movement in the "shuttle" mode (forward-backward).



BELARUS 82.3



ENGINE D-243S2

- 81 horsepower D-243S2 engine complies with Stage II environmental requirements (ensuring the requirements of the 031/2012 CU regulation).



ELECTRICAL EQUIPMENT

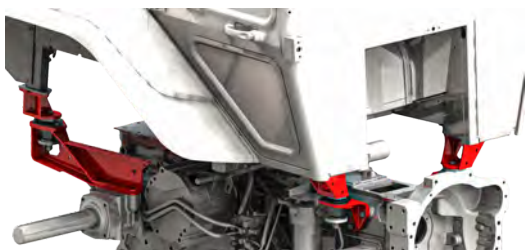
- LED working lights with increased luminous flux better illuminate the work area at night.



- Separated lensed road headlights better illuminate elements of the road when driving at night.

VERSATILE ROW-CROP TRACTORS 800 series

CABIN



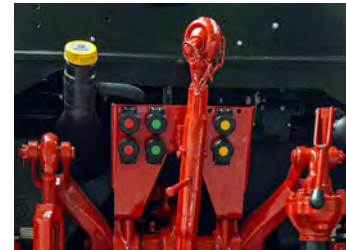
- Upgraded cab suspension reduces noise and vibration in the workplace.

INTERIOR



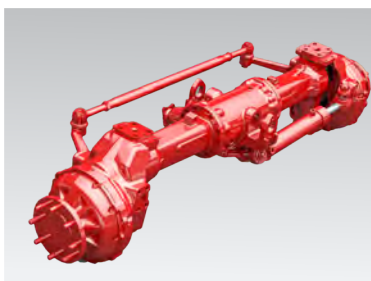
- Modern instrument panel with a color LCD display.

HYDRAULICS



- Outlets of the hydraulic lines are installed in the center on the rear wall of the cabin for the convenience of connecting external units.

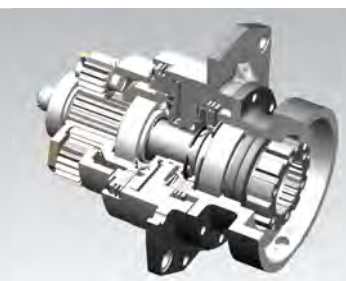
TRANSMISSION



- Beam-type front driving axle with larger wheels and bigger front ballast weights of 520 kg reduces slippage when working with heavy soil-cultivating units.



- Modernized FDA drive has a multi-disk friction clutch which provides an increase in its reliability and longer life.



- Disk-type PTO installed in the transmission allows you to work with the units in the mode of taking off more power.

BELARUS 920

The tractors are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work.

Optional equipment for all models:

Diaphragm clutch.
Air-conditioner
Rear wheel ballast weights.
Rear wheel twinning kit.
Compressor with valve (without pneumatic system).

920/920.2

Basic equipment:

Hydraulic system with draft control (920), LED service lights, front driving axle with bevel reduction gear units(920), front driving axle with planetary spur reduction gear units and hydraulics with hydraulic hoist (920.2), synchronized GB. Air-conditioner.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil sump.
Additional seat.
Reverse reduction gear unit.
Reducing gear with reverse reduction gear unit.
Canopy frame, canopy base.



920.2
920

920.3

Basic equipment:

Front driving axle with planetary-spur reduction gear units. Updated interior, LED service lights. Plastic facings of improved design. Synchronized GB. Air-conditioner. Hydraulic system with hydraulic hoist.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil.
Additional seat.
Reverse reduction gear unit.
Reducing gear with reverse reduction gear unit.
Trailer brakes hydraulic drive.
Canopy frame, canopy base.
FDA with bevel reduction gears.



920.2
920

920.4

Basic equipment:

Front driving axle with planetary-spur reduction gear units. Updated interior, LED service lights. Plastic facings of improved design. Synchronized GB. Air-conditioner. Hydraulic system with hydraulic hoist.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil.
Additional seat.
Reverse reduction gear unit.
Reduction gear with reverse reduction gear unit.
FDA with bevel reduction gears.



920.3
920.4



BELARUS 920



SPECIFICATIONS

ENGINE

		920/920.2	920.3	920.4
Type*		A*	B*	C*
Model		D-243	D-245.43S2	D-245.43S3A/D-245.43S3AM
Power	kW(h. p.)	59.6 [81]		62 [84]
Crankshaft rated speed	rpm	2200		1800
Number of cylinders	pcs.		4	
Displacement	l		4.75	
Max. turning torque	N·m	298		411
Specific fuel consumption at operating power	g/kW·h	235	229	222/244
Torque backup	%	15		25
Fuel tank capacity	l		130/135 (with hydraulic hoist)	

TRANSMISSION

Number of gears: forward/reverse			14/4	
Travel speed:				
forward **[with reducing gear]	km/h	2.55–36.6/2.45–35.2	2.6–38.1 [2.1–29.9/2.0–28.8]**	
reverse	km/h	5.4–12.1/5.2–11.7	5.6–12.6 [4.4–9.9/4.2–9.5]**	
Rear PTO:				
continuous I	rpm		540	
continuous II	rpm		1000	
ground speed	rev/m of travel	3.23	3.23/3.36	3.36

HYDRAULIC LIFT LINKAGE SYSTEM

Lifting capacity at suspension point	kg	3200/4200		4200
Max. pressure	MPa		20	
Pump capacity	l/min		45	
Hydraulic system capacity	l	25		28

DIMENSIONS AND WEIGHT

Overall length (basic equipment)	mm	3970/4030		4370
Width (between rear wheels semi-axes)	mm		1970	
Height to cab top	mm		2850	
Track				
between front wheels	mm	1450–1970/1535–2120		1535–2120
between rear wheels	mm		1500–2100	
Agrotechnical clearance	mm	645		510
Least turning radius	m	4.1/4.5		4.5
Fordable depth	m		0.85	
Operating weight (basic equipment)	kg	4100/4200	4300	4530
Tire sizes (standard)				
front wheels		13.6-20/360/70R24		360/70R24
rear wheels		16.9R38/18.4R34		18.4R34

*A – Diesel with direct fuel injection, without turbocharge. **Stage 0.**

*B – Diesel with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel with Common Rail electronic fuel injection system or Mercer mechanical fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 922/923

The low profile cab on BELARUS 922 allows the tractor to be used in livestock complexes and poultry farms. Tractors also can be used to perform various agricultural operations with mounted, semi-mounted and trailed machines and implements, and to do transportation work.

Optional equipment for all models:

Ballast weights.
Rear wheel ballast weights.
Compressor with valve (without pneumatic system).
Rear wheel twinning kit.
Electrohydraulic coupling clutch control.
Additional seat.
TH components: tow bar, non-rotating yoke.

922.3/922.4

Basic equipment:

Low-profile cabin. Brakes operating in oil bath.
Hydraulic system with hydraulic hoist. Electrohydraulic PTO control. Synchronized GB. Without ballast. Double-line pneumatic drive. Air-conditioner. LED service lights.
TH components: rotating yoke.

Optional equipment:

Combined pneumatic drive. (922.4)



922.3
922.4

The tractors are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work. Comfortable cab with panoramic cylindrical windows.

923.3/923.4

Basic equipment:

Full-profile cabin with cylindrical windows. Brakes operating in oil bath. Two-line pneumatic drive. Air-conditioner. LED service lights. Synchronized GB. Electrohydraulic coupling clutch control. Electrohydraulic PTO control. Hydraulic system with hydraulic hoist. Without ballast. TH components: rotating yoke.

Optional equipment:

Combined pneumatic drive.



923.3
923.4



BELARUS 922/923



VERSATILE ROW-CROP TRACTORS 900 series

SPECIFICATIONS

ENGINE

		922.3/923.3	922.4/923.4
Type*		B*	C*
Model		D-245.5S2	D-245.5S3A, D-245.5S3AM
Power	kW (h. p.)	70 (95)	
Crankshaft rated speed	rpm	1800	
Number of cylinders	pcs.	4	
Displacement	l	4.75	
Max. turning torque	N·m	464	
Specific fuel consumption at operating power	g/kW·h	229	220 (244)
Torque backup	%	25	
Fuel tank capacity	l	120	

TRANSMISSION

Number of gears: forward/reverse		14/4	
Travel speed:			
forward	km/h	2.65–38.1	
reverse	km/h	5.6–12.6	
Rear PTO:			
continuous I	rpm	540	
continuous II	rpm	1000	
ground speed	rev/m of travel	3.36	

HYDRAULIC LIFT LINKAGE SYSTEM

Lifting capacity at suspension point	kg	4200	
Max. pressure	MPa	20	
Pump performance	l/min	45	
Hydraulic system capacity	l	28/35	28/35

DIMENSIONS AND WEIGHT

Overall length (basic equipment)	mm	4500	
Width (between the rear wheels semi-axes)	mm	1970	
Height to cab top	mm	2560/2850	2560/2850
Tractor base	mm	2450	
Track			
between front wheels	mm	1535–2120	
between rear wheels	mm	1400–2100/1500–2100	1400–2100/1500–2100
Agrotechnical clearance		520	
Least turning radius (without braking)	m	5.1	
Fordable depth	m	0.85	
Operating weight (basic equipment)	kg	4545/4775	5060/5235
Tire sizes (standard)			
front wheels		360/70R24	
rear wheels		18.4R34	

*B – Diesel with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel with Common Rail electronic fuel injection system or Mercer mechanical fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 952

The tractors are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work.

Optional equipment for all models:

Diaphragm coupling clutch.
Air-conditioner.
Rear wheel ballast weights.
Rear wheel twinning kit.
Compressor with valve (without pneumatic system).

952

Basic equipment:

Hydraulic system with draft regulator, LED service lights, front driving axle with bevel reduction gear units, front driving axle with planetary-spur reduction gear units and hydraulic system with hydraulic hoist, Synchronized GB. Air-conditioner.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil.
Additional seat.
Reverse reduction gear unit.
Reduction gear with reverse reduction gear unit.
Canopy frame, canopy base.



952

952.2

Basic equipment:

Front driving axle with planetary-spur reduction gear units. Updated interior, LED service lights. Plastic facings of improved design. Synchronized GB. Air-conditioner. Hydraulic system with hydraulic hoist.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil.
Additional seat.
Reverse reduction gear unit.
Reduction gear with reverse reduction gear unit.
Trailer brakes hydraulic drive.
Canopy frame, canopy base.
FDA with bevel reduction gears.



952.2

952.3/952.4

Basic equipment:

Front driving axle with planetary-spur reduction gear units. Updated interior, LED service lights. Plastic facings of improved design. Synchronized GB. Air-conditioner. Hydraulic system with hydraulic hoist.

Optional equipment:

Two-lever GB.
Joystick control of the distributor.
Creeper.
Brakes operating in oil.
Additional seat.
Reverse reduction gear unit.
Reduction gear with reverse reduction gear unit.
FDA with bevel reduction gears.



952.3 952.4



BELARUS 952



VERSATILE ROW-CROP TRACTORS 900 series

SPECIFICATIONS

ENGINE

ENGINE		952	952.2	952.3	952.4
Type*		A*	B*	C*	D*
Model		D-245.5	D-245.5C	D-245.5S2	D-245.5S3A /D-245.5S3AM
Power	kW(h. p.)	65 (88)	66 (89)	70 (95)	
Crankshaft rated speed	rpm	1800			
Number of cylinders	pcs.	4			
Displacement	l	4,75			
Max. turning torque	N·m	397	404	464	
Specific fuel consumption at operating power	g/kW·h	226	232	229	222 / 244
Backup torque	%	15			25
Fuel tank capacity	l	130/135 (with hydraulic hoist)			

TRANSMISSION

Number of gears: forward/backward		14/4		
Travel speed: forward/backward		2.8–39.9/5.8–13.2		
forward (with reducing gear)	km/h	2.1–29.9	2.0–28.8	2.0–28.8
backward	km/h	4.4–9.8	4.2–9.5	4.2–9.5
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		
ground speed	rev/m of travel	3.23	3.36	

HYDRAULIC LIFT LINKAGE SYSTEM

Lifting capacity at suspension point	kg	3200	4200
with cylinder C-110 (against order)	kg	3800	—
Max. pressure	MPa	20	
Pump performance	l/min	45	
Hydraulic system capacity	l	25	28

DIMENSIONS AND WEIGHT

Overall length (without weights)	mm	3970	4030	4370	
Width (between the rear wheels semi-axes)	mm	1970			
Height (to cab top)	mm	2850			
Tractor base	mm	2450			
Track					
between front wheels	mm	1450–1970	1535–2120		
between rear wheels	mm	1500–2100			
Agrotechnical clearance	mm	645	510		
Least turning radius	m	4.1	4.5	4.1	4.5
Fordable depth	m	0.85			
Operating weight	kg	4100	4200	4300	4530
Tire sizes (standard):					
front wheels		13.6-20	360/70R24		
rear wheels		16.9R38	18.4R34		

*A – Diesel engine with direct fuel injection, with turbocharge. **Stage 0.**

*B – Diesel engine with direct fuel injection, with turbocharge **(Stage I)**, *C – with intercooler **(Stage II)**.

*D – Diesel engine with Common Rail electronic fuel injection system or Mercer mechanical fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 1025

The tractors are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work.

Optional equipment for all models:

Electrohydraulic PTO control.

Creeper.

Rear wheels twinning kit.

Additional seat.

Rear wheels ballast weights.

TH components: bar, hydraulic hook, non-rotating yoke, python, ball

Compressor with valve (without pneumatic system).

1025.2

Basic equipment:

Front driving axle with planetary-spur reduction gear units.

PTO drive - with hydraulically-controlled friction clutch. Dry double-disk clutch.

Synchronized GB. Hydromechanical PTO control. Hydraulic system with hydraulic

hoist. TH components: rotating yoke. Air-conditioner. Brakes operating in oil bath.

Front towbar. Double-line pneumatic drive. LED service lights.

Optional equipment:

Canopy frame.

Brakes, operating in oil bath.

Additional seat.

Double-line pneumatic drive.

Compressor with valve (without pneumatic system).

LED service lights.

Joystick control of the distributor.

Ballast.

Plastic facing.



1025.2



1025.2

1025.3/1025.4

Basic equipment:

Dry double-disk clutch.

Synchronized GB.

Hydromechanical PTO control.

Hydraulic system with hydraulic hoist.

Brakes operating in oil bath.

Double-line pneumatic drive.

Optional equipment:

Joystick control of the distributor.

Canopy frame (1025.3).



1025.3 1025.4



BELARUS 1025



SPECIFICATIONS

ENGINE

		1025.2	1025.3	1025.4
Type*		B*	B*	C*
Mode		D-245.C	D-245.S2	D-245.5S3A (D-245.5S3AM)
Power	kW (h. p.)	79 (107)		81 (110)
Crankshaft rated speed	rpm		2200	
Number of cylinders	pcs.		4	
Displacement	l		4,75	
Max. turning torque	N·m	392		440
Specific fuel consumption at operating power	g/kW·h	237	249	237
Backup torque	%	15		25
Fuel tanks capacity	l		135	

TRANSMISSION

Number of gears: forward/backward			16/8
Travel speed			2.3–35.2
forward/backward	km/h		4.03–16.5
Rear PTO:			
continuous I	rpm		540
continuous II	rpm		1000
ground speed	rev/m of travel		3.5

HYDRAULIC LIFT LINKAGE SYSTEM

Lifting capacity at suspension point	kg		4200
Max. pressure	MPa		20
Pump performance	l/min		56
Hydraulic system capacity	l		28

DIMENSIONS AND WEIGHT

Overall length	mm	4205		4600
Width (between the rear wheels semi-axes)	mm		1970	
Height (to cab top)	mm		2850	
Tractor base	mm		2550	
Track				
between front wheels	mm		1535–2120	
between rear wheels	mm		1500–2100	
Agrotechnical clearance	mm		645	
Least turning radius (without braking)	m		5.3	
Fordable depth	m		0.85	
Operating weight	kg	4480 (without weights)	5175	5260
Tire sizes (standard):				
front wheels			360/70R24	
rear wheels			18.4R34	
Wheel arrangement			4x4	

*B – Diesel engine with direct fuel injection, with turbocharge **(Stage I)**, *C – with intercooler **(Stage II)**.

*D – Diesel engine with Common Rail electronic fuel injection system or Mercer mechanical fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 1220

The tractors 1220 are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work.

1220.3/1220.4

Basic equipment:

Front driving axle with planetary spur reduction gears.
Synchronized GB 16x8.
Rear axle with planetary final gears.
PTO drive – with hydraulically-controlled friction clutch, the control is electrohydraulic.
Double disk coupling clutch; metal-ceramic lining of the clutch.
Brakes operating in oil bath.
High capacity fuel tank (255 l). LED service lights. Muffler along the cab post (1220.3).
Double-line pneumatic drive.
Air-conditioner.
TH components: rotating yoke.

Optional equipment:

Compressor with valve (without pneumatic system).
Single-line pneumatic drive.
Creeper.
Rear wheels twinning kit.
Additional seat.
Mechanical synchronized gearbox 24/12.
Electronic hydraulic system with RLL electrohydraulic control.
Joystick control of the HLL distributor.
TH components: drawbar, tow hook, python, ball, non-rotating yoke.

1220.3 1220.4



BELARUS 1220



VERSATILE ROW-CROP TRACTORS 1200 series

SPECIFICATIONS

ENGINE

		1220.3	1220.4
Type*		B*	C*
Model		D-245.2S2	D-245.2S3A (D-245.2S3AM)
Power	kW (h. p.)	90 (122)	
Crankshaft rated speed	rpm	2200	
Number of cylinders	pcs.	4	
Displacement	l	4.75	
Max. turning torque	N·m	501	
Specific fuel consumption at operating power	g/kW·h	254	236
Backup torque	%	25	
Fuel tanks capacity	l	255	

TRANSMISSION

		1220.3	1220.4
Number of gears: forward/backward		16/8	
Travel speed:			
forward	km/h	1.7-36.7	
backward	km/h	3.1-17.2	
Rear PTO:			
continuous I	rpm	540	
continuous II	rpm	1000	
ground speed	rev/m of travel	4.87	

HYDRAULIC LIFT LINKAGE SYSTEM

Remote-cylinder with hydraulic hoist, providing draft, position, mixed and depth control of implement position.			
		1220.3	1220.4
Lifting capacity at suspension point	kg	4200	
Max. pressure	MPa	20	
Pump performance	l/min	56	
Hydraulic system capacity	l	28	

DIMENSIONS AND WEIGHT

		1220.3	1220.4
Overall length	mm	4600	
Width	mm	2250	
Height to cab top	mm	2890	
Tractor base	mm	2550	
Track:			
between front wheels	mm	1535-2120	
between rear wheels	mm	1500-2440	
Agrotechnical clearance	mm	620	
Least turning radius (without braking)	m	5.0	
Fordable depth	m	0.85	
Operating weight	kg	5610	5675
Tire sizes (standard)			
front wheels		420/70R24	
rear wheels		18.4R38	

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel engine with Common Rail electronic fuel injection system or Mercer mechanical fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 1221

The tractors 1221 are designed to do various agricultural work with mounted, semi-mounted and trailed machines and implements, to do transportation work.

Optional equipment for all models:

Six-cylinder engine.
Front driving axle with planetary spur reduction gear units.
Synchronized GB 16x8.
Rear axle with planetary final gears.
PTO drive – with hydraulically controlled friction clutch.
Dry, double-disk coupling clutch.
Air-conditioner.

1221.2

Optional equipment:

Synchronized GB (24/12).
With respect to hazardous emissions, diesel engine complies with Stage I.
Coupler hoses (2 pcs.).
Right-side cab footstep.
Front PTO and front lift linkage.
Additional fuel tank.



1221.2 1221.3

1221.3/1221.4

Optional equipment:

Synchronized, fixed-ratio gearbox (24/12).
Right-side cab footstep.
Front PTO and front lift linkage.
Electronic hydraulic system with electro-hydraulic RLL control.
LED service lights.



1221.4

1221T.2

Basic equipment:

Sun-protective canopy frame.

Optional equipment:

Coupler hoses (2 pcs.).



1221T.2



BELARUS 1221



SPECIFICATIONS

ENGINE

ENGINE		1221.2/1221T2	1221.3	1221.4
Type*		A*	B*	C*
Model		D-260.2C	D-260.2S2	D-260.2S3A
Power	kW (h. p.)	96 (130)	100 (136)	
Crankshaft rated speed	rpm	2100		
Number of cylinders	pcs.	6		
Displacement	l	712		
Max. turning torque	N·m	500	568	570
Specific fuel consumption at operating power	g/kW·h	240	250	244
Backup torque	%	15	25	
Fuel tanks capacity	l	135 (250 – optional)		

TRANSMISSION

Number of gears: forward/backward		16/8		
Travel speed				
forward/backward	km/h	1.5–35.0/2.75–16.4		
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		
ground speed	rev/m of travel	4,87		

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	4300		
Max. pressure	MPa	20		
Pump performance	l/min	51		
Hydraulic system capacity	l	28		

DIMENSIONS AND WEIGHT

Overall length	mm	4500	
Width (between the rear wheels semi-axes)	mm	2300	
Height (to cab top)	mm	2850	
Tractor base	mm	2760	
Track:			
between front wheels	mm	1540–2090 (fixed-ratio)	
between rear wheels	mm	1530–2150	
Agrotechnical clearance	mm	620	
Least turning radius (without braking)	m	5.4	
Fordable depth	m	0.85	
Operating weight	kg	5730/5370	5730
Tire sizes (standard)			
front wheels		420/70R24	
rear wheels		18.4R38	
Wheel arrangement		4x4	

*A – Diesel engine with direct fuel injection, with turbocharge. **Stage I.**

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel engine with Common Rail electronic fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 1222.3



BELARUS 1222 tractor is a deeply modernized BELARUS-1221. In addition to the updated design, constructive changes ensure new consumer qualities of this novelty:

Alligator-style plastic facing provides ease of maintenance of the engine and its systems.

Separate spotted road headlights better illuminate elements of the road when driving at night.

LED working lights with increased luminous flux better illuminate the work area at night.

A new high-comfort cabin with shaped windows and an upgraded suspension, a comfortable seat, a modern instrument panel with a color LCD display, electrically controlled rear-view mirrors and air conditioner in a standard configuration reduce operator fatigue.

Engine D-260.2S2 complies with Stage II requirements.

The electronic unit of the electro-hydraulic lift linkage is easily adjustable and allows you to more accurately set the parameters of the depth of tillage and the traction resistance of the unit, which improves quality of tillage and reduces shock loads on the tractor.

Hydrostatic clutch and brake control reduces pedal effort.

"Wet" brakes ensure efficient and durable operation of the tractor brake system.

Hydraulics distributor is moved back for easy connection of external units, as well as ease of repair.

Muffler is located along the cab post for improved visibility.

ENGINE

Type	B*
Model	D-260.2S2
Rated power, kW (h. p.)	100 (136)
Crankshaft	
rated speed, rpm	2100
Number of cylinders, pcs.	6
Displacement, l	7.12
Max. turning torque, N*m	570
Specific fuel consumption	244
at rated power, g/kW*h	25
Backup torque, %	270
Fuel tanks capacity, l	

TRANSMISSION

Coupling clutch	dry, double-disk
Gearbox	synchronized
Number of gears: forward/reverse	16/8
Travel speed, km/h:	
forward/reverse	1.54–37.0/2.7–16.4
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground speed, rev/m of travel	4.84 tires 18.4R38

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

DIMENSIONS

Overall length, mm	4540
Width, mm	2300
Height (to cab top), mm	3035
Tractor base, mm	2760
Track	
between front wheels	1540–2090
between rear wheels	1530–2150
Agrotechnical clearance, mm	620
Least turning radius, m	5.4
Fordable depth, m	0.85
Operating weight, kg	5900
Tire sizes (standard):	
front wheels	420/70R24
rear wheels	18.4R38

HYDRAULIC LIFT LINKAGE

Versatile, remote-cylinder, with electrohydraulic system, providing draft, position and mixed control of tillage.

Lifting capacity at suspension point, kg	4300
Max. pressure, MPa	20
Pump performance, l/min	55
Hydraulic system capacity, l	30



GENERAL-PURPOSE TRACTORS

1500 series

1800 series

2000 series

3000 series



BELARUS 1523

The 1523 tractors are intended for various general-purpose agricultural operations, for primary and pre-sowing tillage, for sowing as part of wide-cut and combined units, for harvesting operations as part of high-performance harvesting complexes, and for hauling operations.

Basic equipment:

Six-cylinder engine.
Front driving axle with planetary spur reduction gears.
Synchronized GB 16x8.
Rear axle with planetary final gears.
PTO drive – with hydraulically-controlled friction clutch.
Electronic hydraulic system with electrohydraulic RLL.
Coupling clutch – dry, double-disk.
Air-conditioner.
Audio receiver.

1523/1523.3

Optional equipment:

Reversible control post (1523B).
Gearbox 24x12.

1523.4

Optional equipment:

Gearbox 16/8 providing change of gears within a range without power flow interruption.

1523T1/1523T1.3

Distinctive features:

Tropical version.
Muffler is located along the cab post.

Optional equipment:

Gearbox 16/8 providing change of gears within a range without power flow interruption.
Gearbox 24x12.

1523T3

Distinctive features:

Tropical version. Canopy frame.
Muffler is located along the cab post.

1523/1523.3 1523.4



1523T1.3 1523T1



1523T.3



BELARUS 1523



SPECIFICATIONS

ENGINE

		1523	1523.3	1523T1/1523T1.3	1523.4
Type*		A*	B*	A*/B*	C*
Model		D-260.1	D-260.1S2	D-260.1 (S2)	D-260.1S3A
Power	kW [h. p.]	109 [148]	111 [150]	109 [148]/ 111 [150] for D-260.1S2	111 [150]
Crankshaft rated speed	rpm	2100			
Number of cylinders	pcs.	6			
Displacement	l	712			
Max. turning torque	H·m	622	659	622/659	660
Specific fuel consumption at operating power	g/kW·h	240	249	240/249	244
Backup torque	%	20	25	20/25	
Fuel tank capacity	l	250			

TRANSMISSION

Travel speed:		
forward	km/h	1.73–32.38 (1/70–36.30 for GB 24x12)
reverse	km/h	2.72–15.52 (2.27–17.10 for GB 24x12)
Rear PTO:		
continuous I	rpm	540
continuous II	rpm	1000
ground-speed	rev/m of travel	3.8

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	6500
Max. pressure	MPa	20
Pump performance	l/min	55
Hydraulic system capacity	l	35

DIMENSIONS AND WEIGHT

Overall length	mm	4710 (5170–1523T1.3)
Width (between the rear wheels semi-axles)	mm	2250
Height (to cab top)	mm	3000
Tractor base	mm	2750
Track		
between front wheels	mm	1540–2115
between rear wheels	mm	1520–2435
Agrotechnical clearance	mm	620
Least turning radius	m	5.5
Fordable depth	m	0.85
Operating weight	kg	6250
Tire sizes (standard):		
front wheels		420/70R24
rear wheels		520/70R38
Wheel arrangement		4x4

*A – Diesel engine with direct fuel injection, with turbocharge (Stage 0), *B – with intercooler (Stage II).

*C – Diesel engine with Common Rail fuel injection system, with turbocharge and intercooler. Stage IIIa.

BELARUS 1822.3



The 1822.3 tractors are intended for various general-purpose agricultural operations, for primary and pre-sowing tillage, for sowing as part of wide-range and combined units, for harvesting operations as part of high-performance harvesting complexes, and for hauling operations.

Basic equipment:

Six-cylinder engine.
Front driving axle with planetary-spur reduction gear units.
Synchronized gearbox 24x12.
PTO drive with hydraulically-controlled friction clutch.
Electronic hydraulic system with electrohydraulic control of the rear lift linkage (RLL).
LED working headlights.
Muffler located along the cab post.
Air conditioner.
Stereo receiver.

Optional equipment:

Rear wheel twinning kit.
Additional seat.
Front ballast weights.

ENGINE

Type*	B*
Model	D-260.9S2
Rated power, kW (hp)	132 (180)
Crankshaft rated speed, rpm	2100
Number of cylinders, pcs.	6
Displacement, l	7.12
Max. turning torque, Nm	780
Specific fuel consumption at rated power, g/kW-h	249
Torque backup, %	30
Fuel tank capacity, l	360

TRANSMISSION

Coupling clutch	dry, double-disk, with hydraulic booster
Gearbox	mechanical, synchronized
Number of gears: forward/reverse	24/12
Travel speed, km/h:	
forward/reverse	1.86–39.70/2.60–18.70
Rear PTO:	continuous, double-speed, with hydromechanical control system
continuous I, rpm	540
continuous II, rpm	1000

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

DIMENSIONS

Overall length, mm	5230
Width, mm	2450
Height (to cab top), mm	3120
Tractor base mm	2920
Track:	
between front wheels	1725–2205
between rear wheels	1800–2500
Agrotechnical clearance, mm	530
Least turning radius (without braking), m	5.8
Fordable depth, m	0.85
Operating weight, kg	7230
Tire size (standard):	
front wheels	420/70R24
rear wheels	580/70R42

HYDRAULIC LIFT LINKAGE

Remote-cylinder, with electrohydraulic system of automatic control of tillage depth, with draft, position and mixed methods of control.

Lifting capacity at suspension point, kg	6500
Max. pressure, MPa	20
Pump performance, l/min	55
Capacity of hydraulic system, l	35



BELARUS 2023



BELARUS 2022

The 2022 tractors are intended for various general-purpose agricultural operations, for primary and pre-sowing tillage, for sowing as part of wide-range and combined units, for harvesting operations as part of high-performance harvesting complexes, and for hauling operations.

Basic equipment for all models:

Six-cylinder engine.
Front driving axle with planetary-spur reduction gear units.
Synchronized gearbox 24x12.
Rear axle with planetary final drives.
PTO drive with hydraulically-controlled friction clutch, four-speed.
Electronic hydraulic system with electrohydraulic control of RLL.
Muffler located along the cab post.
Dry, double-disk clutch.
Air conditioner.
LED working headlights.
Stereo receiver.

2022.3

Optional equipment:

Front PTO and front lift linkage.
Reversible control post (2022.3-02/B).
Up to 1010 kg front ballast weights.
Additional seat.
Rear wheel twinning kit.
Range of low gears (2022.3-02/B-17/32).



2022.3

2023

Basic equipment:

Engine D-260.4S2/D-260.4S3A.
FDA of coaxial type with larger front wheels.
Led working headlights.

Optional equipment:

Front PTO and front lift linkage.
Additional seat.
Rear wheel twinning kit.



2023



BELARUS 2022



SPECIFICATIONS

ENGINE

		2022.3	2022.3-02/B-17/32	2023
Type*		B*		B*/C*
Model		D-260.4S2		D-260.4S2/D-260.4S3A
Power	kW [hp]	156 [212]		156 [212]/158 [215]
Crankshaft rated speed	rpm	2100		
Number of cylinders	pcs.	6		
Displacement	l	7.12		
Max. turning torque	N·m	922		963
Specific fuel consumption				
at operating power	g/kW·h	249		250
Torque backup	%	30		
Fuel tank capacity	l	370		340

TRANSMISSION

Number of gears: forward/reverse		24/12		
Travel speed:				
forward/reverse	km/h	1.86–39.7/2.6–18.4	1.1–24.33/1.6–11.27	1.86–39.7/2.6–18.4
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	6500		
Max. pressure	MPa	20		
Pump performance	l/min	55		
Capacity of hydraulic system	l	35		

DIMENSIONS AND WEIGHT

Overall length	mm	5230		
Width	mm	2400		2600
Height (to cab top)	mm	3120		
Tractor base	mm	2920		
Track:				
between front wheels	mm	1725–2190 (7 values)		1920–2205
between rear wheels	mm	1800–2500		
Agrotechnical clearance	mm	540		530
Least turning radius (without braking)	m	5.8		6.2
Operating weight	kg	7220	7290	7320
Tire size (standard):				
front wheels		420/70R24		540/65R30
rear wheels		580/70R42		

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel engine with Common Rail fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

BELARUS 2122.3 and 2122.4



The 2122.3/2122.4 tractors are intended for power-consuming agricultural operations in traction and traction-drive modes as part of wide-range and combined units, including with implements arranged in echelon, and for hauling operations.

Basic equipment:

Front lift linkage and front PTO.
Air conditioner.
Oil tank with increased capacity.
Hydraulic system with a variable-displacement pump.
Four-section distributor with EHS system.
Hydromechanical gearbox.
Side console with a Complex Electronic Control System (CECS).
LED working headlights.
Stereo receiver.
650 kg ballast of front lift linkage.

Optional equipment:

Wheel twinning kit.
Hydraulic lift linkage with tandem gear pump.

ENGINE

	2122.3/2122.4
Type*	B*/C*
Model	D-260.4S2/D-260.4S3A
Rated power, kW (hp)	156 (212)/158(215)
Crankshaft rated speed, rpm	2100
Number of cylinders, pcs.	6
Displacement, l	712
Max. turning torque, Nm	922/923
Specific fuel consumption at operating power, g/kW-h	249
Torque backup, %	30
Fuel tank capacity, l	420

TRANSMISSION

Coupling clutch	dry, double-disk
Clutch control	hydrostatic, with hydraulic booster
Gearbox	hydromechanical, with friction clutches
Number of gears: forward/reverse	16/8
Travel speed, km/h:	
forward/reverse	2.8–39.5/4–18.6
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
PTO control	electrohydraulic
Differential lock	electrohydraulic

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel engine with Common Rail fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

DIMENSIONS

Overall length, mm	5300
Width, mm	2460
Height (to cab top), mm	3150
Tractor base mm	2980
Track, mm:	
between front wheels	1815 and 2020
between rear wheels	1800–2000 and 2240–2500
Agrotechnical clearance, mm	450
Least turning radius, m	5.3
Fordable depth, m	0.8
Operating weight, kg	8370
Tire size (standard):	
front wheels	480/65R24
rear wheels	580/70R42

HYDRAULIC LIFT LINKAGE

Load-sensitive (LS) based on a variable-displacement pump with a 4-section electrohydraulic distributor (EHS-1).

Max. lifting capacity at suspension point, kg:	
rear lift linkage	6500
front lift linkage	4800
Max. pressure, MPa	20
Pump performance, l/min	0–86
Capacity of hydraulic system, l	80



The 3522 tractors are intended for power-consuming agricultural operations in traction and traction-drive modes as part of wide-range and combined units, including arranged in echelon, during primary and pre-sowing tillage, sowing of grains and other crops, forage conservation, harvesting root crops, grains and industrial crops; for hauling operations, stationary work, in construction and industry.

Basic equipment:

Hydraulic lift linkage with an electro-driven distributor EHS and EHR-5 of front lift linkage (FLL) control, rear wheel twinning kit, creeper gear, air conditioner, front lift linkage (FLL), front PTO as standard equipment. LED working headlights.

Optional equipment:

Up to 1350 kg front weights.
Front wheel twinning kit.
Set of weights for rear wheels.



ENGINE

Type*	C*
Model	Weichai WP10HG360E302/ KAMAZ-689
Rated power, kW (hp)	263 [358]/264 [359]
Crankshaft rated speed, rpm	2100
Number of cylinders, pcs.	6
Displacement, l	9.5/8.9
Max. turning torque, Nm	1600/1500
Specific fuel consumption at operating power, g/kW·h	240/229
Torque backup, %	34/25
Fuel tank capacity, l	650

TRANSMISSION

Coupling clutch	dry, double-disk
Gearbox	hydromechanical, with friction clutches
Gear shifting	electrohydraulic
Number of gears: forward/reverse	36/24 with creeper
Travel speed, km/h:	
forward	0.32–40
reverse	0.41–20.8
Rear PTO:	continuous, double-speed, with hydromechanical control system
continuous I, rpm	1000
continuous II, rpm	1450
Max. power at front PTO, kW (hp)	115 [156]
Max. power at rear PTO, kW (hp)	216 [294]
PTO control	electrohydraulic
Differential lock	electrohydraulic

DIMENSIONS

Overall length (with FLL ballast), mm	6935
Width, mm	2850
Height (to cab top), mm	3350
Tractor base, mm	3000
Track, mm:	
between front wheels	2000 and 2150
between rear wheels	2130–2220 2316–2636 2485–2655
Agrotechnical clearance, mm	550
Least turning radius, m	6.5
Operating weight, kg	12300/12870
Tire size (standard):	
front wheels	600/65R34
rear wheels	710/70R42

HYDRAULIC LIFT LINKAGE

A versatile hydraulic system to control the working units of agricultural implements with a variable-displacement pump, an electronically controlled distributor and the ability to program the section on/off sequence, flow rate, action time by reading signals from two sensors. With draft, position and mixed methods to control the depth of tillage, 4 pairs of independent outlets.

Max. lifting capacity at suspension point, kg:	
rear lift linkage	10000
front lift linkage	5000
Max. pressure, MPa	20
Pump performance, l/min	0–160
Capacity of hydraulic system, l	100

*C – Diesel engine with Common Rail fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

** Change for an engine of other brand with similar specifications is possible.

BELARUS 3525



The 3525 tractors are intended for power-consuming agricultural operations in traction and traction-drive modes as part of wide-range and combined units, including arranged in echelon, during primary and pre-sowing tillage, sowing of grains and other crops, forage conservation, harvesting root crops, grains and industrial crops; for hauling operations, stationary work, in construction and industry.

Basic equipment:

Hydraulic lift linkage with an electro-driven distributor EHS and EHR-5 of front lift linkage (FLL) control, rear wheel twinning kit, creeper gear, air conditioner, front lift linkage (FLL), front PTO as standard equipment. LED working headlights. Hydromechanical gearbox with electrohydraulic control that allows you to shift between gears and ranges without power flow interruption.

Optional equipment:

LED working headlights. Up to 1350 kg front weights. Front wheel twinning kit. Set of weights for rear wheels.

ENGINE

Type*	C*
Model	Weichai WP10HG360E302/ KAMAZ-689
Rated power, kW (hp)	263 (358)/264 (359)
Crankshaft rated speed, rpm	2100
Number of cylinders, pcs.	6
Displacement, l	9.5/8.9
Max. turning torque, Nm	1600/1500
Specific fuel consumption at operating power, g/kW-h	240/229
Torque backup, %	25
Fuel tank capacity, l	650

TRANSMISSION

Coupling clutch	dry, double-disk
Gearbox	hydromechanical, with friction clutches
Gear shifting	electrohydraulic
Number of gears: forward/reverse	30/12 with creeper
Travel speed, km/h:	
forward	0.32–40
reverse	0.41–20.8
Rear PTO:	continuous, double-speed, with hydromechanical control system
continuous I, rpm	1000
continuous II, rpm	1450
Max. power at front PTO, kW (hp)	115 (156)
Max. power at rear PTO, kW (hp)	216 (294)
PTO control	electrohydraulic
Differential lock	electrohydraulic

DIMENSIONS

Overall length (with FLL ballast), mm	6935
Width, mm	2850
Height (to cab top), mm	3350
Tractor base mm	3000
Track, mm:	
between front wheels	2000 and 2150
between rear wheels	2130–2220 2316–2636 2485–2655
Agrotechnical clearance, mm	550
Least turning radius, m	6.5
Operating weight, kg	13090
Tire size (standard):	
front wheels	600/65R34
rear wheels	710/70R42

HYDRAULIC LIFT LINKAGE

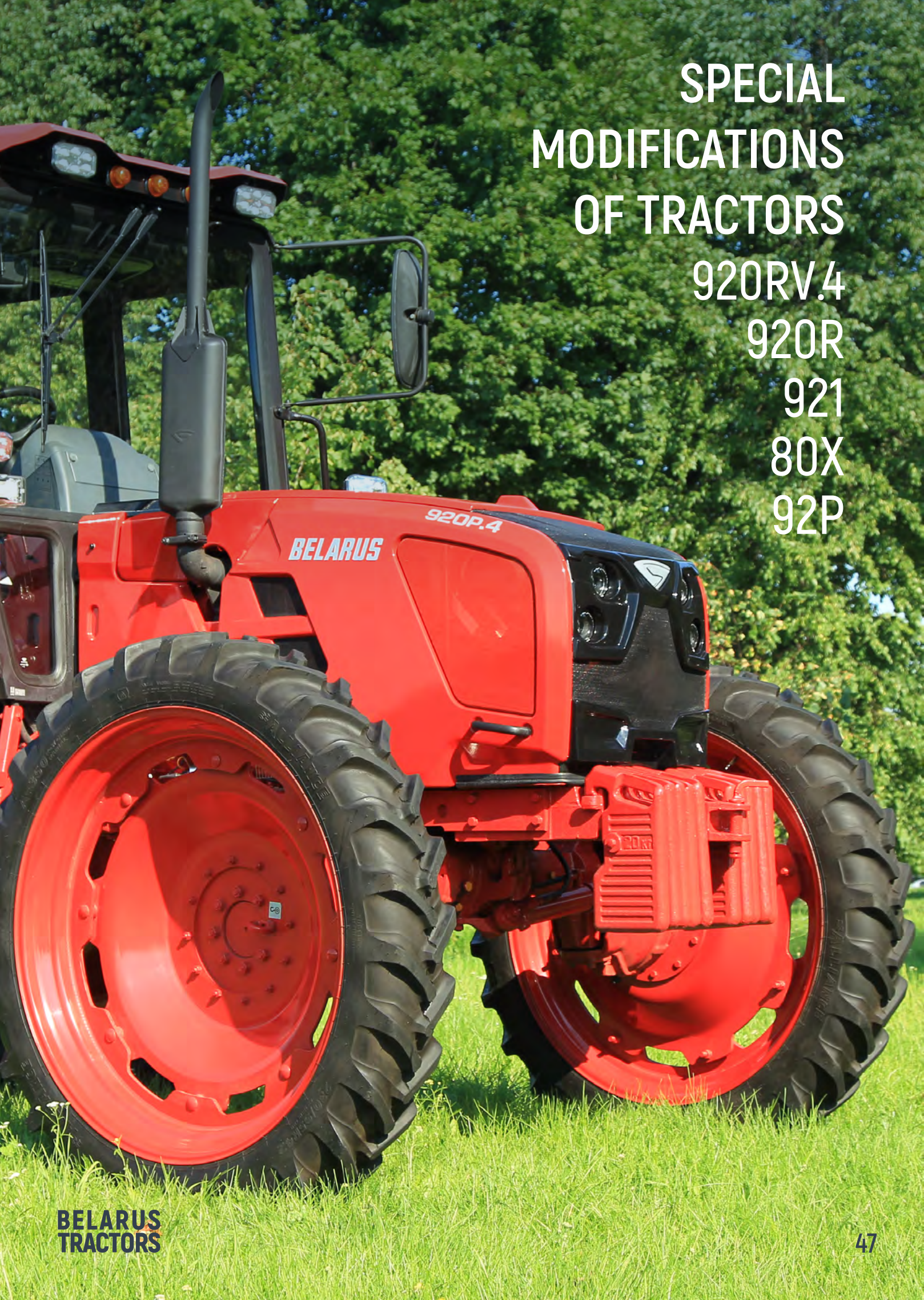
A versatile hydraulic system to control the working units of agricultural implements with a variable-displacement pump, an electronically controlled distributor and the ability to program the section on/off sequence, flow rate, action time by reading signals from two sensors. With draft, position and mixed methods to control the depth of tillage, 4 pairs of independent outlets.

Max. lifting capacity at suspension point, kg:	
rear lift linkage	10000
front lift linkage	5000
Max. pressure, MPa	20
Pump performance, l/min	0–160
Capacity of hydraulic system, l	100

*C – Diesel engine with Common Rail fuel injection system, with turbocharge and intercooler. **Stage IIIa.**

** Change for an engine of other brand with similar specifications is possible.



A red Belarus tractor is shown from a side-front perspective, parked on a green lawn. The tractor features large, deep-tread black tires and a red body with black accents. The text "BELARUS" and "920P.4" are visible on the side. The background consists of a dense line of green trees.

SPECIAL MODIFICATIONS OF TRACTORS

920RV.4

920R

921

80X

92P

BELARUS 920RV.4



BELARUS 920RV.4

A specialized tractor modification with increased ground clearance for the mechanization of cultivating tall-stemmed crops (seeds of vegetable crops, corn, etc.), as well as for applying fertilizers and plant protection products in combination with mounted and trailed sprayers.

ENGINE

Type*	diesel engine with direct fuel injection, with turbocharge
Model	D-245.43SAM
Rated power, kW (hp)	62 (84)
Crankshaft rated speed, rpm	1800
Number of cylinders, pcs.	4
Displacement, l	4.75
Max. turning torque, Nm	411
Torque backup, %	15
Fuel tank capacity, l	130

TRANSMISSION

Coupling clutch	dry, single-disk
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	17/4
Travel speed, km/h:	
forward/reverse	1.7–23.5/3.7–8.3
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	3.33

DIMENSIONS

Overall length (from front ballast to the RLL in transport position), mm	4350
Width (between rear wheels), mm	1750
Height to cab top, mm	3040
Tractor base mm	2425
Track, mm:	
between front wheels	1400–1800
between rear wheels	1405–1805
Agrotechnical clearance, mm	918
Least turning radius, m	4.9
Operating weight (with weights), kg	4690
Tire size (standard):	
front wheels	230/95R42
rear wheels	230/95R48

HYDRAULIC LIFT LINKAGE

Versatile, remote-cylinder.

Lifting capacity at suspension point, kg	3000
Max. pressure, MPa	20
Pump performance, l/min	46
Capacity of hydraulic system, l	25

BELARUS 320R



BELARUS 920R/920R.4



The tractor is intended for the mechanization of rice cultivation, as well as for performing various work in agriculture in combination with mounted, semi-mounted, trailed machines and implements. Distinctive features include increased ground clearance and all-terrain tires. The 920R.4 package includes air conditioning.

Optional equipment:

Canopy frame.
Front lift linkage and front PTO.

Optional equipment:

Canopy frame.
Spacers for rear wheel twinning.

ENGINE

		320R	920R	920R.4
Type*		A*		C*
Model		MMZ-3LD	D-243	D-245.43S3AM
Power	kW [hp]	26 [35,4]	60 [81]	62 [84]
Crankshaft rated speed	rpm	3000	2200	1800
Number of cylinders	pcs.	3	4	4
Displacement	l	1.6	4.75	4.75
Max. turning torque	N·m	94	298	411
Torque backup	%	20	15	25
Fuel tank capacity	l	26	130	

TRANSMISSION

		mechanical, fixed-ratio		
Gearbox		16/8	17/4	
Number of gears: forward/reverse				
Travel speed:	km/h			
forward/reverse	km/h	1.2–29.4/2.1–15.5	2.0–27.9/4.4–9.9	1.7–22.8/3.6–8.1
Rear PTO:				
continuous I	rpm	540		
continuous II	rpm	1000		
ground-speed	rev/m of travel	-	3.23	3.44

HYDRAULIC LIFT LINKAGE

Lifting capacity at suspension point	kg	1100	3200
Max. pressure	MPa	20	20
Pump performance	l/min	17	46
Capacity of hydraulic system	l	11	25

DIMENSIONS AND WEIGHT

Length (with weights)/(without weights) / width / height	mm	3050/1560/2300	4120/4020 / 2370 / 3030
Tractor base	mm	1720	2440
Track between front wheels/between rear wheels	mm	1260, 1410/1200–1620	1400–1800/1900
Agrotechnical clearance	mm	450	880
Least turning radius (without braking)	m	3.7	4.5
Fordable depth	m	-	0.85
Operating weight	kg	1730	4400
Tire size (standard) of front wheels/rear wheels		265/70R16 / 360/70R24	16.0-20 (F-76)/18.4R34 (F-44)

*A – Diesel engine with direct fuel injection, without turbocharging, *C – with turbocharging.

Rear axle differential lock: hydraulically controlled, has two positions (forced on; off).



The tractor is intended for various horticultural and agricultural operations with mounted, semi-mounted, trailed machines and implements.

Distinctive features:

Small width and height dimensions.

Optional equipment:

Front lift linkage.

Air conditioner.

Front ballast weights.

Compressor with valve.

Mechanism to adjust length of RLL suspension point.

Optional tire sizes:

- front wheels - 12.4L16;

- rear wheels - 14.9R30.

Manufacturer

OJSC "Smorgon Assembly Plant"



ENGINE

	921.3/921.4
Type*	*B/*C
Model	D-245.5S2/D-245.5S3AM
Rated power, kW (hp)	70 (95)
Crankshaft rated speed, rpm	1800
Number of cylinders, pcs.	4
Displacement, l	4.75
Max. turning torque, Nm	464
Torque backup, %	25
Fuel tank capacity, l	138

TRANSMISSION

Coupling clutch	dry, single-disk
Clutch control	hydrostatic
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	18/4
Travel speed, km/h:	
forward/reverse	1.6-30/3.5-8,0
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	4,38
PTO control	mechanical

*B – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage II.**

*C – Diesel engine with direct fuel injection, with turbocharge and intercooler. **Stage IIIa.**

The rear axle differential lock is mechanical and has two operation modes: lock disengaged; lock engaged positively.

DIMENSIONS

Length without weights, with the RLL	
in transport position, mm	4150
Length with FLL and RLL	
in transport position, mm	4630
Width between rear wheels	
at minimum track, mm	1600
Height (to cab top), mm	2430
Tractor base mm	2460
Track, mm:	
between front wheels	1250-1420
between rear wheels	1160-1640
Road clearance, mm	250
Least turning radius	
with braking m	3.6
Operating weight, kg	3925
Tire size (standard):	
front wheels	265/70R16
rear wheels	420/70R24

HYDRAULIC LIFT LINKAGE

Versatile, remote-cylinder, with hydraulic lift, providing draft, position, mixed and depth adjustment of the implement position.

Max. lifting capacity at suspension point, kg	3600
Max. pressure, MPa	20
Pump performance, l/min	45
Capacity of hydraulic system, l	40

BELARUS 80X/100X



The tractors are intended to carry out agricultural work with mounted, semi-mounted and trailed machines and implements for the integrated mechanization of cotton cultivation and harvesting of raw cotton, as well as agricultural operations in the cotton growing area.

Optional equipment:

Metal-ceramic clutch linings.
Air conditioner.
Automatic coupler.
Front non-driving axle (4x2).
Set of spacers for 2400 mm track.

ENGINE

	80X/100X
Type*	*A/*B
Model	D-243/D-245
Rated power, kW (hp)	60 (81)/77 (105)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Max. turning torque, Nm	298/384
Torque backup, %	15
Fuel tank capacity, l	130

TRANSMISSION

Coupling clutch	dry, single-disk
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	16/4
Travel speed, km/h:	
forward/reverse	1.9–18.4/4.1–9.2
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	3.4
Side PTO	
continuous II, rpm	570
ground-speed, rev/m of travel	1.26

*A – Diesel engine with direct fuel injection, without turbocharge,

*B – with turbocharge.

The differential lock is mechanical - a dog clutch that locks final drive axle shafts providing positive engagement, automatic disengagement.

DIMENSIONS

	80X/100X
Tractor base mm	2470
Overall dimensions, mm:	
a) length with the lift linkage	
in transport position	4040
b) width between rear wheel tires	
with 1900 mm track	2300
with 2400 mm track	2800
c) height to cab top	2980
Track, mm	1900
Clearance, mm:	
a) agrotechnical clearance	
under rear wheel axle tubes	800
b) road clearance	620
Least turning radius, m	3.2
Operating weight, kg	3700/3800
Tires (basic configuration):	
front wheels	12–16 or 13.0/75–16
rear wheels	15.5R38

HYDRAULIC LIFT LINKAGE

Versatile, remote-cylinder, with mechanical latching of lift linkage in transport position.

Max. lifting capacity at suspension point, kg	2800
Max. pressure, MPa	20
Pump performance, l/min	45
Capacity of hydraulic system, l	25



The base chassis is intended for coupling with various-purpose mounted equipment to perform work in industry, construction and public service: earthmoving, excavating, loading and unloading, road cleaning, etc.

Distinctive features:

Reinforced cab frame, opening rear window, improved design of plastic facing, reinforced clutch housing. FDA with increased payload capacity.

Optional equipment:

Clutch linings are metal-ceramic.
Rear lift linkage with hydraulic lift.
Gearbox 18x4.
Tow hitch.
Air conditioner.
Stereo receiver.



ENGINE

Type*	A*
Model	D-243S2
Rated power, kW (hp)	60 (81)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Max. turning torque, Nm	298
Torque backup, %	15
Fuel tank capacity, l	130

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical with reverse reduction gear, single-lever gearbox control with 9th gear lockup
Number of gears: forward/reverse	8/8
Travel speed, km/h:	
forward/reverse	2.6–18.9/2.5–17.7
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000

DIMENSIONS

Overall length, mm	3850
Width, mm	1970
Height, mm	2850
Tractor base mm	2450
Track, mm:	
between front wheels	1535–2120
between rear wheels	1530
Road clearance, mm	465
Least turning radius, m	4.5
Operating weight, kg	3900
Tire size:	
front wheels	360/70R24
rear wheels	18.4R34

HYDRAULIC LIFT LINKAGE

Max. lifting capacity of rear lift linkage (on order) on suspension point, kg	4200
Max. pressure, MPa	20
Pump performance, l/min	45
Capacity of hydraulic system, l	25
Hydraulic system outlets	3 pairs of outlets (2 on the cab side, left and right, 1 pair of outlets at the back)

*A – Diesel engine with direct fuel injection.

CRAWLER TRACTORS

1502

2103



BELARUS 1502



Optional equipment:

- 500 mm crawler track;
- straight blade with hydraulic tilt;
- root rake;
- ripper and rigidly fixed bracket without rear lift linkage, rear PTO of tow hitch.

ENGINE

Type	diesel, in-line, with turbocharge and intercooling. Stage II.
Model	D-260.1S2
Rated power, kW (hp)	116 (158)
Rated crankshaft speed, rpm	2100
Number of cylinders	6
Displacement	7.12
Maximum torque, N·m	647
Specific fuel consumption at rated power, g/kW·h	249
Torque backup, %	25
Fuel tank capacity, l	380

TRANSMISSION

Coupling clutch	dry, double-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	8/4
Travel speed, km/h:	
forward/reverse	2.2-14.9 / 3.1-7.1
Turning mechanism	double-flow, differential type with hydrostatic transmission
Control of turning mechanism	steering wheel
Rear PTO:	continuous, four-speed
control	electrohydraulic
continuous I, rpm	540/750
continuous II, rpm	1000/1400

HYDRAULIC LIFT LINKAGE

Remote-cylinder, with open circulation and full-flow filtration of the working fluid, with electro-hydraulic joystick control.

Number of hydraulic outlets	two pairs
Maximum pressure, MPa	14
Pump performance, l/min	55
Hydraulic system capacity, l	70

UNDERCARRIAGE

Type	track-type, crawler tracks with rubber-metal joints
Width of crawler track, mm	500 or 600

The tractor is intended for:

- earth handling, digging and filling trenches, constructing embankments, moving crushed stone and other bulk materials in road, industrial and housing construction in combination with a straight blade with a hydraulic tilt and a ripper;
- uprooting and moving stumps or large stones weighing up to 1 t;
- performing reclamation, agricultural and transport work on weak and wet soils.

Basic equipment:

- 600 mm crawler track;
- swivel blade;
- rear lift linkage, rear PTO, tow hitch (drawbar, towing hook);
- air conditioner.

Manufacturer:

JSC "Mozyr Machine-Building Plant"

DIMENSIONS

Operating weight, kg	12760 [*] /13280 ^{**}
Base, mm	2400
Overall dimensions, mm:	
length	6250
width between track edges	2100 [*] /2300 ^{**}
height	2950
Track, mm	1600 [*] /1700 ^{**}
Road clearance, mm	360
Least turning radius, m	3.1
Specific pressure on soil, kPa	51 [*] /44.9 ^{**}
Fordable depth, m	0.8
Nominal traction force, kN	40

^{*}when equipped with 500 mm crawler track;

^{**}when equipped with 600 mm crawler track.

EQUIPMENT

Blade:	
type	straight with hydraulic tilt
overall dimensions (width/height), mm	2960/1175
lifting height, mm	610
penetration, mm	400
Angle blade:	
overall dimensions (width/height), mm	3610/1070
lifting height, mm	860
penetration, mm	290
blade setting angle	-30°, 0°, 30°
Root rake:	
overall dimensions (width/height), mm	2510/1650
penetration, mm	450
Ripper: type	single-tooth
lifting height, mm	405
penetration, mm	540
Tow hitch:	
- drawbar	TSU-1-ZH
maximum vertical load, kN	16
- towing hook	TSU-3-K
maximum vertical load, kN	18
rigidly fixed bracket	
maximum vertical load, kN	19
Rear lift linkage:	
type	NU-3
lifting capacity at suspension point, kg	5900

An agricultural crawler tractor for performing various agricultural work in combination with machines and implements, including plowing and loosening medium and heavy soils, fertilizing, pre-sowing cultivation and soil preparation, moisture retention plowing, harrowing, sowing, harvesting, and other general-purpose work on waterlogged soils.

Basic equipment:

- 156 [212] kW (hp) engine;
- air conditioner;
- hydraulic system with lever control, distributor and electro-hydraulic system of automatic adjustment of soil tillage depth with draft, position and mixed adjustment methods;
- metal crawler track with rubber-metal joints;
- hydromechanical gearbox.

Optional equipment:

- 146.3 [199] kW (hp) engine;
- rubber-reinforced crawler track;
- mechanical gearbox.

**Manufacturer:**

JSC "Mozyr Machine-Building Plant"

ENGINE

Type	diesel, with turbocharge and charged air cooling
Model	D-260.3S2/D-260.4S2
Rated power, kW (hp)	146.3 [199]/156 [212]
Rated crankshaft speed, rpm	2100
Maximum torque, N·m	923
Specific fuel consumption	
at rated power, g/kW·h	249/244
Torque backup, %	25/30
Fuel tank capacity, l	380

TRANSMISSION

Coupling clutch	dry, double-disk, spring-loaded
Gearbox	*hydromechanical/**mechanical
Travel speed, km/h:	
forward/reverse	3.1–26.1/4.2–14.5 / 1.3–27.5/1.8–13.0
Turning mechanism	dual-flow, differential type, with hydrostatic transmission
Control of turning mechanism	steering wheel
Rear PTO:	continuous, four-speed
control	electrohydraulic
continuous I, rpm	540/750
continuous II, rpm	1000/1400

UNDERCARRIAGE

Type	track-type, crawler tracks with rubber-metal joints
Width of crawler track, mm	500

***Hydromechanical gearbox:**

mechanical, fixed-ratio, with constant mesh gears, with gear shifting within ranges using friction hydraulic clutches without interrupting the power flow, range shifting using toothed clutches and a synchronizer.
Number of gears forward/reverse: 16/8.

****Mechanical gearbox:**

mechanical fixed-ratio with constant mesh gears, with switching within ranges by a synchronizer, switching ranges by toothed clutches and a synchronizer.
Number of gears forward/reverse: 24/12.

DIMENSIONS

Operating weight, kg	12700
Base, mm	2300
Overall dimensions, mm:	
length	6200
width	2100
height	2950
Track, mm	1600
Road clearance, mm	370
Least turning radius, mm	3.1
Specific pressure on soil, kPa	52
Fordable depth, m	0.8
Nominal traction force, kN	40

HYDRAULIC LIFT LINKAGE

Hydraulic system with lever control, distributor and electro-hydraulic system for automatic adjustment of soil tillage depth, with draft, positional and mixed adjustment methods.

Maximum pressure, MPa	20 ¹ /18 ²
Number of hydraulic outlets	four pairs
Pump performance, l/min	55
Hydraulic system capacity, l	70

EQUIPMENT

Tow hitch:	
drawbar	TSU-1-ZH
maximum vertical load, kN	16
towing hook	TSU-3-K
maximum vertical load, kN	18
Rear lift linkage:	
type	NU-3
lifting capacity at suspension point, kg	5500



MUNICIPAL MACHINERY

131 GS

82MK

P10M

MUP-351

EP-491

MU/MPU/MP-320/422.1/622



BELARUS 131 GS



Areas of work:

- public utilities;
- gardening and park management;
- household plots.

Types of work:

- mowing with simultaneous mulching in the mowing zone;
- mowing with discharge to the right side.

Features:

- Damping of vibrations of the cutting tool, located on suspensions with vibration-damping rubber bushings.
- The operator can adjust the position of his workplace without getting up.
- Before cutting the grass, it is lifted by a specially created air flow.
- Ergonomic steering wheel.
- The wheelbase ensures stable behavior of the lawn mower when working in areas with complex terrain and transporting from site to site.



Self-propelled multifunctional lawn mower.

For mowing grass when caring for lawns in gardens, parks, household plots, and public utilities. The direction of movement is changed with pedals.



Manufacturer:

OJSC "Smorgon Assembly Plant"

ENGINE

Type	4-stroke, gasoline, air-cooled
Power, kW (hp)	10 (14)
Start-up system	electric starter from battery
Fuel tank capacity, l	6.6

DIMENSIONS

Mower weight, kg	315
Base, mm	1300
Overall dimensions, mm:	
length	1850
width	1170
height	1150
Track, mm	820-870
Road clearance, mm, not more than	
- with mower deck mounted	100
- without mower deck	250
Turning radius, m	1.75
Tire size:	
front wheels	16x65-8
rear wheels	23x8.5-12

TRANSMISSION

Gearbox	hydromechanical
Number of gears:	
forward/reverse	2/2
Travel speed, km/h:	
forward/reverse	2-10
Drive	rear

MOWER

Mowing width, mm	1160
Number of blades, pcs.	3
Blade activation clutch	mechanical
Grass mowing height adjustment	
with pitch, mm	20
Cutting height, mm	50-150
Cutting mode	discharge to the right side, mulching
Performance, m ² /h	5000

BELARUS 82 MK



The machine is designed to clear streets, squares, roads and sidewalks with hard surfaces from debris and fresh snow, to shape loose bulk soil and fill trenches and pits with it. The machine consists of a BELARUS 82.1 base tractor and a plow-brush equipment.

Basic equipment:
Bulldozer equipment.

Optional equipment:
Brush equipment with support rollers.

Manufacturer:
OJSC "Smorgon Assembly Plant"

ENGINE

Type	diesel, naturally aspirated
Model	MMZ, D-243
Rated power, kW (hp)	60 (81)
Rated crankshaft speed, rpm	2200
Number of cylinders	4
Displacement	4.75
Maximum torque, Nm	260
Specific fuel consumption at rated power, g/kW-h	229
Torque backup, %	15
Fuel tank capacity, l	130

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	18/4
Travel speed, km/h:	
working	12
permissible transport	18
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, r/m of travel	3.5

HYDRAULIC LIFT LINKAGE

Type	remote-cylinder
Maximum pressure, MPa	20
Pump performance, l/min	45
Hydraulic system capacity, l	21

DIMENSIONS

Operating weight, kg	5260
Base, mm	2450
Overall dimensions with implements (length/width/height), mm	6550/2500/2950
Track, mm	1620
Road clearance, mm	300
Least turning radius, m	7.6
Maximum height of snow removed in one pass, mm	500
Performance when clearing the roadway from snow, m ² /h	21600
Maximum working width in one pass, mm:	
blade	2500
brush	1730

EQUIPMENT

Bulldozer equipment:	
overall dimensions (width/height), mm	2500/720
blade setting angle	-30°, 0°, 30°
maximum blade lifting height, mm	540
maximum depth of blade lowering, mm	130
Brush equipment:	
overall dimensions (width/height), mm	2200/970
brush installation angle	30°
brush drive	from tractor rear PTO
nominal brush speed, rpm	260



Loading equipment as part of a tractor is designed to perform loading and unloading operations, transportation of bulk materials over short distances, site planning operations, filling trenches and pits with bulk soil, and clearing roads, sidewalks and areas of freshly fallen snow.

Basic equipment:

Without additional hydraulic line.
Bucket (0.5 m³, 8 teeth).

Manufacturer:

OJSC "Smorgon Assembly Plant"

Optional equipment:

Additional hydraulic line.

Replaceable working bodies:

- main bucket (0.42 m³, 6 teeth);
- larger bucket (0.57 m³, without teeth);
- larger bucket (0.75 m³, without teeth);
- snow bucket (1 m³, without teeth);
- double-jaw bucket;
- root crop bucket;
- agricultural fork;
- blade;
- load fork;
- mounting hook;
- extension.



ENGINE

Powering unit	BELARUS-92P, BELARUS-820, BELARUS-952.2, BELARUS-821 with front driving axle 822 2300020-02
Weight, kg	1160
Overall dimensions (length/width/height), mm	4500/2200/1800
Control	hydraulic control from the driver's seat
Carrying capacity, kg	1000
Maximum lifting height, mm	4095
Maximum height of bucket dumping, mm	2560
Maximum bucket dump angle	55°
Front edge reach of the bucket at maximum dumping height, mm, not less than	1000
Maximum operational digging depth, mm	100
Bucket tipping time, s, no more than	2.3
Time to raise the boom to maximum height, s, no more than	10
Performance during unloading operations (depending on the density of the material), t/h	15-50

BELARUS MUP-351

Optional equipment:

- Loading equipment KUN (TURS)-1000.
- Brush equipment with support rollers.
- Additional hydraulic line.
- Additional weights on the rear wheels.
- Replaceable working bodies of the loading equipment:
 - main bucket (0.42 m³, 6 teeth);
 - larger bucket (0.57 m³, without teeth);
 - larger bucket (0.75 m³, without teeth);
 - snow bucket (1 m³, without teeth);
 - double-jaw bucket;
 - root crop bucket;
 - agricultural fork;
 - load fork;
 - mounting hook
 - blade;
 - extension



The cleaning and loading machine is designed for cleaning, loading and unloading operations, earthworks on soils of categories I and II, works on site planning, filling pits and trenches.

The machine consists of a BELARUS 82.1 basic tractor and loading and brush equipment mounted on it.

Basic equipment:

Loading equipment with bucket (0.5 m³, 8 teeth).

Manufacturer:

OJSC "Smorgon Assembly Plant"

ENGINE

Type	diesel, naturally aspirated
Model	MMZ, D-243
Rated power, kW (hp)	60 [81]
Crankshaft rated speed, rpm	2200
Number of cylinders	4
Displacement, l	4.75
Maximum torque, N·m	260
Specific fuel consumption at operating power, g/kW·h	229
Torque backup, %	15
Fuel tank capacity, l	130

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	18/4
Travel speed, km/h	
working speed	8
permissible transport speed	16
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	3.5

HYDRAULIC LIFT LINKAGE

Type	remote-cylinder
Maximum pressure, Mpa	20
Pump performance, l/min	45
Hydraulic system capacity, l	25

DIMENSIONS

Operating weight, kg	5700
Base, mm	2450
Overall dimensions (length/width/height), mm	7000/2200/3000
Track (front/rear wheels), mm	1650/1600
Road clearance, mm	300
Least turning radius, m	7.4
Performance when clearing the roadway from snow, m ² /h	14400
Performance at unloading operations (depending on the density of the material), t/h	15-50

EQUIPMENT

Loading equipment P10M:	
lifting capacity, kg	1000
maximum bucket dumping height, mm	2560
maximum bucket dumping angle	55°
reach of the front edge of the bucket at maximum dumping height, mm, not less than	1000
maximum working digging depth, mm	100
bucket tipping time, s, not more than	2.3
boom lifting time to maximum height, s, not more than	10
Brush equipment:	
overall dimensions (width/height), mm	2200/970
brush installation angle	30°
brush drive	from rear PTO of basic tractor
maximum brush grip width, mm	1730
nominal brush rotation speed, rpm	260
Loading equipment KUN (TURS)-1000:	
lifting capacity, kg	1000
lifting height to the rotation axis of the working body, mm	3800
bucket dumping angle, degrees	61
weight without the working body, kg	785



The backhoe loader is intended for:

- earthwork on soils of categories I and IV (the excavator can be used on frozen soils after preliminary soil loosening);
- loading and unloading operations, transportation of bulk materials over short distances;
- site planning, filling of trenches with bulk soil;
- cleaning operations (removal of snow, debris etc.).

The backhoe loader consists of a BELARUS-92P base chassis and excavator and loading equipment mounted on it.

Optional equipment:

Loading equipment DEM-103.

Manufacturer:

OJSC "Orsha Tool Plant"



ENGINE

Type	diesel, with turbocharge
Model	MMZ, D-245.5
Rated power, kW (hp)	65 (88)
Crankshaft rated speed, rpm	1800
Number of cylinders	4
Displacement, l	4.75
Maximum torque, N·m	396
Torque backup, %	15
Fuel tank capacity, l	130

HYDRAULIC LIFT LINKAGE

Type	remote-cylinder
Maximum pressure, Mpa	20
Pump performance, l/min	45
Hydraulic system capacity, l	21.5

EQUIPMENT

Excavating equipment:	
bucket capacity, m ³	0.12; 0.25; 0.3
maximum unloading height, mm	3400
maximum excavator digging depth, mm	4350
maximum digging radius, mm	5350
digging axis offset (right/left), mm	590/590
nominal lifting capacity of excavating equipment without digging axis offset, kg	950
nominal lifting capacity of excavating equipment at max. offset of the digging axis, kg	500
maximum cutting force, kN	31
Loading equipment P12:	
bucket lifting capacity, kg	1200
maximum bucket unloading height, mm	2800
maximum bucket unloading angle	55°
reach of the front edge of the bucket at maximum unloading height, mm, not less than	1240
maximum working digging depth, mm	100
bucket tipping time, s, not more than	4.8
boom lifting time to maximum height, s, not more than	9.2
Loading equipment DEM-103:	
lifting capacity, kg	1000
maximum unloading height, mm	2900
reach of the edge of the loader bucket during unloading, mm	980
digging depth, mm	180

DIMENSIONS

Operating weight, kg	7100
Base, mm	2450
Overall dimensions	
(length/width/height), mm	6700/2350/3600
Track (front/rear wheels), mm	1700/1900
Road clearance, mm	400
Least turning radius (right/left), m	6.5/6.4
Performance at earthwork operations	
(depending on the density of the material), t/h	10-40
Performance at loading operations	
(depending on the density of the material), t/h	25-70

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	8/8
Travel speed, km/h	
working speed	4
permissible transport speed	20

Basic equipment:

0.25 m³ bucket of excavating equipment.

Optional equipment:

0.12 m³ bucket of excavating equipment;

0.3 m³ bucket of excavating equipment.

CLEANSING MACHINERY

BELARUS MU-320/422.1/622



The cleansing vehicle is designed to clean streets, squares, roads and sidewalks from freshly fallen snow and debris, to level bulk soil and fill trenches and pits with it.

Manufacturer: OJSC "Bobruisk Plant of Tractor Parts and Units"

BELARUS MPU-320/422.1/622



The loading and cleansing vehicle is designed to perform cleaning and loading and unloading operations, earthwork on soils of categories I and II, site planning work, filling pits and trenches.

Manufacturer: OJSC "Bobruisk Plant of Tractor Parts and Units"

BELARUS MP-320/422.1/622



The loading machine is designed to perform material handling operations for site planning, filling trenches with bulk soil, and cleaning roads, sidewalks and areas from debris and freshly fallen snow.

Manufacturer: OJSC "Bobruisk Plant of Tractor Parts and Units".



BELARUS MU/MPU/MP-320/-422.1/-622

BASIC PARAMETERS AND SPECIFICATIONS

Model		MU-320/-422.1/-622			MPU-320/-422.1/-622			MP-320/-422.1/-622		
Type		wheeled			wheeled			wheeled		
Base tractor: BELARUS		320.4	422.1	622	320.4	422.1	622	320.4	422.1	622
Overall dimensions in transport position: length/width/height	mm	5500/1900/2370	5800/2250/2500	6000/2500/2600	6150/1800/2370	6350/2250/2500	6600/2500/2600	4650/1800/2370	4800/1800/2500	5000/1800/2600
Overall turning radius in transport position	mm	4200	5000	6000	5000	5000	6000	5000	5000	6000
Operating weight: *- with irrigation system	kg	2250/2450*	2750/3000*	3100/3350*	2400/2600*	2900/3150*	3250/3500*	2250	2750	3350
Travel speed: transport/working	km/h	25/10	25/12	25/12	25/10	25/12	25/12	25/10	25/12	25/12
BRUSH EQUIPMENT										
Model		SHCHT-15		SHCHT-20	SHCHT-15		SHCHT-20			
Grip width	mm	1300		1710	1300		1710			
Overall dimensions: length	mm	1710		1888	1710		1888			
width	mm	1840		2327	1840		2327			
height	mm	990		990	990		990			
Weight	kg	295		320	295		320			
Brush diameter	mm	550		550	550		550			
Brush rotation frequency	rpm	260		260	260		260			
Brush rotation angle (constant)	deg.	60		60	60		60			
Performance when clearing the roadway from freshly fallen snow and small debris (at a speed of 8-10 km/h)	m²/h	1700		1700	1700		1700			
Optional equipment		irrigation system			irrigation system					
LOADING EQUIPMENT										
Model					OP-300			OP-300		
Working width of the bucket	mm				1650		1650	1650		1650
Overall height with bucket raised to maximum	mm				3450		3550	3450		3550
Unloading height (at a discharge angle of 45°)	mm				2300		2400	2300		2400
Nominal bucket capacity	m³				0.25		0.33	0.25		0.33
Loader capacity	kg				300		400	300		400
Additional equipment					quick-change equipment			quick-change equipment		
BULLDOZER EQUIPMENT										
Model		OT-18	OT-20	OT-25						
Blade working width at an installation angle of 60°/90°	mm	1560/1800	1730/2000	2150/2500						
Overall dimensions: height/width	mm	1800/590	2000/590	2500/590						
Weight	kg	110	120	140						
Performance when clearing the roadway from freshly fallen snow	m²/h	2000	2200	2500						
Additional equipment		hydraulic rotary control mechanism								

UNIVERSAL CHASSIS

SH-406

MU-466



BELARUS SH-406

The universal chassis is intended for use in a family of road vehicles as a mobile energy-saturated carrier of equipment from domestic and foreign manufacturers for the maintenance and repair of highways, as well as for use in public utilities.

The chassis is equipped with an engine pre-heater, a creeper gear, and front and rear PTO.

Manufacturer:
OJSC "Minsk Tractor Works"



ENGINE

Type	diesel, in-line, four-cylinder, with turbocharge and intercooling
Model	MMZ, D-245.2S2
Power, kW (hp)	90 (122)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Maximum torque, N·m	501
Specific fuel consumption at operating power, g/kW·h	245
Torque backup, %	25
Fuel tank capacity, l	130

DIMENSIONS

Operating weight, kg	6100 (6600)*
Base, mm	2700
Overall dimensions (length/width/height), mm	5210/2300/2920
Track, mm	1870
Road clearance, mm	350
Least turning radius, m	6.4
Nominal traction force, kN	20
Tire size	10.00R20

*with load platform.

HYDRAULIC LIFT LINKAGE

Hydraulic system	versatile, remote-cylinder	
Pumps (2 pcs.):		
type	axial piston non-adjustable	
displacement, cm ³ /rev	28; 56	
total capacity, l/min	110	
Maximum pressure, Mpa	20	
Hydraulic system capacity, l	135	
Hydraulic outputs (quantity/oil flow, l/min):		
front extraction	four pairs/40, one pair/70, one pair (drain)/40	
rear extraction	two pairs/40, one pair/70, one pair (drain)/40	
Front lift linkage:		
type	universal plate with installation dimensions according to French standard and DIN 76060	
lifting capacity on the 500 mm outreach from the connecting plane of the plate, kg	1200	
Rear lift linkage:	NU-2	
type	with mechanical fixation of implements in transport position	
lifting capacity on the 610 mm outreach from the suspension axis, kg	1100	

TRANSMISSION

Coupling clutch	dry, double-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears: forward/reverse	14/4
Travel speed:	
forward (minimum with creeper/ permissible transport speed), km/h	0.8/39.9
reverse (minimum with creeper/ maximum), km/h	2.8/17.1
Front PTO:	
continuous, rpm	1000
Rear PTO:	
continuous I, rpm	540
continuous II, rpm	1000
ground-speed, rev/m of travel	3.5
Creeper:	
model	MHU-05

BELARUS MU-466



The universal machine is designed for use as a locomotive for shunting operations on in-plant railway tracks with a gauge of 1520 mm, as well as for year-round maintenance and cleaning of public roads, and improvement of industrial areas.

The machine is equipped with two platforms for the compiler, a pre-start engine heater, additional railway light signaling, a braking system for railway cars, radio communication, a creeper, a front and rear PTO; the possibility of twinning the rear wheels is provided.

Manufacturer:
OJSC "Minsk Tractor Works"

ENGINE

Type	diesel, in-line, four-cylinder, liquid cooling, with turbocharge and intermediate cooling of charged air
Model	MMZ, D-245.2S2
Power, kW (hp)	90 (122)
Crankshaft rated speed, rpm	2200
Maximum torque, N·m	501
Fuel tank capacity, l	130
Specific fuel consumption at operating power, g/kW·h	245
Torque backup, %, not less than	25
Displacement, l	4.75
Number of cylinders, pcs.	4

TRANSMISSION

Coupling clutch	dry, double-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears (forward/reverse)	14/4
Maximum travel speed (forward/reverse), km/h:	
– on wheels	39.9/17.1
– on railway without trailer weight	30.0/17.0
– on railway with trailer weight	15.0/15.0
– on railway with creeper	2.0/2.0
Front PTO:	
– continuous, rpm	1000
Rear PTO:	
– continuous I/II, rpm	540/1000
– ground-speed, rev/m of travel	3.5

EQUIPMENT

Rear automatic coupler	SA-3
Front automatic coupler	SA-3

DIMENSIONS

Operating weight, kg	8500
Base, mm	2684
Overall dimensions (length/width/height), mm	6500/2400/3000
Track, mm	
– wheels (front/rear)	1630/1575
– railway rollers	1520
Road clearance, mm	310
Least turning radius, m	7.8
Nominal traction force, kN	20
Body load capacity, kg	1500
Maximum permissible slope when moving on the railway, %	10
Maximum permissible trailer weight (when used as a locomobile), kg	350000
Creeper:	
model	MHU-05

HYDRAULIC LIFT LINKAGE

Hydraulic system	versatile, remote-cylinder
Pumps (2 pcs.):	
– type	axial piston non-adjustable
– displacement, cm ³ /rev	28; 56
– total capacity, l/min	110
Maximum pressure, Mpa	20
Hydraulic system capacity, l	135
Hydraulic outlets (quantity/oil consumption, l/min):	
– front extraction	one pair/40, two pairs/70, one pair (drain)/40
– rear extraction	one pair/70, one pair (drain)/40
Front lift linkage (with the front automatic coupler SA-3 removed):	
– type	universal plate
	with installation dimensions according to French standard and DIN 76060
– load capacity on the outreach 500 mm from the connecting plane of the plate, kg	1200



MINING MACHINERY

MT-353M2
MGL-363M
MPL-373M
MP-403M
MMP-393M



BELARUS SH-353M – base chassis



BELARUS MT-353M2

Mine transport vehicle

Designed for transporting people and cargo in horizontal and inclined arch-type mine workings.



BELARUS MMP-393M

Mine ambulance

It is designed to deliver specially trained personnel and necessary equipment to the scene of an incident, provide medical aid and transport sick or injured people to the shaft in underground mines along horizontal and inclined arch-type mine workings.



BELARUS MP-403M

Mine fire-fighting vehicle

Designed to deliver a combat crew of six people to the site of a fire and to extinguish it in arch-type underground mines.



BELARUS MPL-373M

Mine watering vehicle

Designed for watering mine workings and extinguishing fires in arch-type underground mines.



BELARUS MGL-363M

Cargo-and-passenger vehicle

Designed for transporting people in horizontal and inclined arch-type mine workings.



BELARUS SH-353M – base chassis

TECHNICAL SPECIFICATIONS

ENGINE

		MT-353M2	MGL-363M	MPL-373M	MMP-393M	MP-403M
Type*		A*				
Power	kW (hp)	44 (60)				
Crankshaft rated speed, rpm	rpm	2200				
Number of cylinders	pcs.	4				
Displacement	l	4.75				
Maximum torque	N·m	275				
Specific fuel consumption						
at operating power	g/kW·h	244				
Torque backup	%, minimum	12				
Maximum concentration of carbon monoxide in engine exhaust gases	%	0.08				
Fuel tank capacity	l	65				

TRANSMISSION

Coupling clutch		dry, single-disk, spring-loaded				
Gearbox		mechanical, fixed-ratio				
Number of gears: forward/reverse	pcs.	4/1				
Travel speed: forward/reverse	km/h	2.28–42.27/2.38–8.76				

DIMENSIONS AND WEIGHT

Operating weight	kg	4300	4100	4550	4425	4650
Base	mm	2600	2600	2600	2600	2600
Overall dimensions:						
length	mm	5650	5175	5350	5675	5350
width	mm	2220	2220	2220	2220	2220
height	mm	2150	2150	2150	2150	2150
Track	mm	1630	1630	1630/1690	1630	1630/1690
Road clearance	mm	265	265	265	265	265
Least turning radius	m	6.5	6.5	6.5	6.5	6.5
Number of seats (including driver's seat)	pcs.	22	6	2	8	6
Number of stretcher places on guides with shock absorbers and a ramp for loading stretchers	pcs.	-	-	-	2	-
Tank capacity (for water)	l	-	-	2900	-	2200
Body load capacity	kg	-	2000	-	-	-

A* – diesel, four-cylinder, liquid-cooled, naturally aspirated, with low-emission adjustments.

Design features:

It is operated at ambient air temperature from +5 °C to +25 °C, relative air humidity up to 98% at a temperature of 20 °C, dustiness of 1.5 g/m³, at a depth of up to 1000 m. The machine must be operated in workings where fresh air is supplied in an amount that ensures a reduction in the concentration of harmful exhaust products in the mine atmosphere to sanitary standards, but not less than 5 m³/min per one hp of rated engine power.

Manufacturer:

OJSC "Smorgon Assembly Plant".

MACHINERY FOR WINTER SPORTS

ML-428

MSU-622

MSU-108

KL-418



The ice resurfacing machine is designed for servicing open ice rinks with natural and artificial ice coverings, and is equipped with the following:

- a blade with a quick-release fastening for preliminary cleaning of the ice covering from snow;
- a shaving and resurfacing unit for rough (shaving the top layer of the surface) and finishing (uniform distribution of a layer of hot water for subsequent freezing) processing of the ice cover.

Manufacturer:
OJSC "Minsk Tractor Works"



ENGINE

Type	diesel, in-line, naturally aspirated
Model	MMZ, D-243
Rated power, kW (hp)	60 (81)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Maximum torque, N·m	298
Specific fuel consumption at operating power, g/kW·h	235
Torque backup, %	15
Fuel tank capacity, l	130

EQUIPMENT

Shaving and resurfacing unit:	
– weight, kg	670
– overall dimensions (length/width/height), mm	1130/2100/1780
– hopper volume, m ³	1.2
– volume of filling system tanks, dm ³	450
– ice knife dimensions (length/width/height), mm	14/125/1950
– cutting depth, mm	0–2
Blade:	
– weight, kg	356
– overall dimensions (width/height), mm	2500/720
– blade rotation angle in both directions	30°

DIMENSIONS

Operating weight, kg	5500
Overall dimensions (length/width/height), mm	6250/2500/3050
Track (front/rear wheels), mm	1640/1560
Road clearance, mm	370
Least turning radius (right/left), m	5.1

TRANSMISSION

Coupling clutch	dry, single-disk
Gearbox	synchronized
Number of gears (forward/reverse)	14/4
Travel speed, km/h:	
– forward	2.3–18.7
– reverse	5.1–11.3

BELARUS KL-418

Electric ice resurfacing machine. Designed for preparing artificial ice surfaces on indoor ice rinks.



Manufacturer:
OJSC "Minsk Tractor Works"

BASIC PARAMETERS AND SPECIFICATIONS

Traction electric drive:	
– traction battery:	
1) rated capacity, kW·h	54
2) full charge time, h	4
3) service life, years	5
– traction motors:	
1) rated power (11.0 for each electric motor), kW	22.0
2) rated torque, N·m	75
3) rated engine shaft speed, rpm	1500
Maximum travel speed for forward/reverse, km/h	13.0/13.0
Weight, kg:	
– operating	4290
– full	5255
Overall dimensions, mm	
– length	4005
– width	2120
– height	2100
Base, mm	1940
Track size, mm	1410
Road clearance, mm	110
Least turning radius, m	4.2
Volume of snow storage hopper, m ³	3
Ice knife dimensions, mm	13x125x1950
Capacity of the resurfacing system tank, l	720
Capacity of the flushing system tank, l	250
Pressure of the hydraulic fluid in the hydraulic system of the working equipment, MPa	18
Tire pressure (225/75 R16C), Mpa	0.56
Specific total operational labor intensity of maintenance, man/hour	0.016
Mean time between failures of II and III complexity groups during the warranty period, h, not less than	500
Service life, years, not less than	8



Snow-grooming vehicle.

The snow-grooming vehicle is designed for preparing ski runs at sporting facilities, ski resorts and recreation areas.

Basic equipment:

Snow-grooming equipment MSU-622.



Manufacturer:

OJSC "Bobruisk Plant of Tractor Parts and Units"

ENGINE

Type	diesel, in-line, four-cylinder, turbocharged
Model	BELARCO WR460T
Power, kW (hp)	44 (60)
Crankshaft rated speed, rpm	3000
Maximum torque, N·m	170
Fuel tank capacity, l	130
Specific fuel consumption at operating power, g/kW·h	238
Torque backup, %, not less than	15
Displacement, l	2.2
Number of cylinders, pcs.	4

TRANSMISSION

Coupling clutch	friction-type, spring-loaded, single-disk
Gearbox	mechanical
Number of gears (forward/reverse)	16/8
Travel speed, km/h:	
forward/reverse	1.0–34.6/1.9–18.3

DIMENSIONS

Operating weight, kg	3570
Overall dimensions with equipment, mm:	
length (in transport position)	5570
width	2510
height	2560
Track, mm:	
– front wheels	1660
– rear wheels	1710
Road clearance, mm	320
Least turning radius, m	6.0

* With snow compacting equipment MSU-622

EQUIPMENT

Blade:	
- width, mm	2380
- steering degree in both directions	20°
- weight, kg	230
Snow compaction equipment:	
- model	MSU-622
- weight, kg	544
- width, mm	2520
- width of compaction, mm	2520
- cutting width, mm,	1550
- cutting depth, mm	70
- maximum speed of snow plow, rpm	1600
Ski track maker:	
- depth of the ski track cutting, mm	40
- width of the ski track cutting, mm:	
upper part	130
lower part	55
- distance between track centers of the ski trail cut, mm	240

BELARUS MSU-108



The snow grooming vehicle is designed to prepare ski slopes and ski trails at sports facilities, ski resorts and recreation areas.

Basic equipment:

- pre-heater (electric, 220 V) of the engine;
- heater (electric, 220 V) of the hydraulic system tank;
- electric heating of the rear and side windows, side mirrors, seats;
- radio with USB, SD/MMC player;
- blade and snow compaction equipment with quick-release fastening.

Manufacturer:

OJSC "Minsk Tractor Works"

ENGINE

Type	diesel, four-stroke, with turbocharge and charged air cooling
Brand, model	MMZ D-245.35E4/WEICHAH WP4.6 NG210E301
Power, kW (hp)	130 (177)/154 (209)
Crankshaft rated speed, rpm	2300/2200
Number of cylinders, pcs.	4
Displacement, l	4.75/4.58
Specific fuel consumption at rated power, g/kW-h	220
Fuel tank capacity, l	130

DIMENSIONS

Operating weight, kg	6450
Overall dimensions (length/width/height), mm	8265/3430/2980
Track, mm	1735
Road clearance, mm	280
Climbing angle	30°
Least turning radius at the outer edge of the track, m	1.28
Crawler track:	
type	combined, with steel lugs
width, mm	820 (1110)

TRANSMISSION

Type	hydrostatic
Travel speed, km/h	0-25

EQUIPMENT

Blade:	
type	12-position
width, mm	3330
height, mm	765
weight, kg	225
rotation angle in horizontal plane/ in vertical plane	30°/15°
Snow compaction equipment:	
length, mm	1430
width, mm	3430
height, mm	1050
weight, kg	622
cutting depth, mm	70
cutting width, mm	2490
compaction width	3330
maximum rotation speed of the cutter, rpm	1600
angle of rotation of equipment to the side	17°
Track marker:	
quantity	2
depth of the ski track cutting, mm	40
width of the ski track cutting, mm:	
upper part	130
lower part	55
distance between ski track centers created, mm	240
distance between track markers, mm	700-1900
Cargo platform:	
load capacity, kg	1000
length, m	1200
width, m	2170



SPECIAL-PURPOSE VEHICLES

OPT-9195

BK-205D



BELARUS OPT-9195



The special mounting hoist OPT-9195 is designed for loading and unloading, mounting and transport work at public utility and road facilities, construction sites, forestry and energy. The lift can be used to service lighting systems, care for green and decorative plantings, loading and unloading, mounting work when servicing buildings and structures, minor planning work, forest care and harvesting, installation and maintenance of power lines and lighting systems.

Manufacturer:
JSC "Mozyr Machine-Building Plant"

BASIC PARAMETERS AND SPECIFICATIONS

Powering unit	BELARUS 920
Load capacity on outriggers, kg:	
- at minimum outreach	2250
- at maximum outreach	300
Load capacity of the cradle, kg	120/180
Maximum boom reach, mm	7800
Maximum hook lifting height, m, not more than	8.9
Load moment, kN-m	49
Boom rotation angle in horizontal plane	300 ^{°(+10°)}
Boom rotation angle in horizontal plane with the limit switch locked	400°
Hook lifting and lowering speed without load, m/min	8.0
Column rotation frequency, rpm	
- minimum	0.5
- maximum	1.7
Transport speed on a horizontal section of road with hard surface, km/h	15
Number of service personnel, persons	1
Number of places in cradle	1 or 2*
Drive for rotation, extension and tilt of the boom	hydraulic
Overall dimensions of the hoist in transport position, mm:	
length with cradle	7190
width	2400
height	3300
Weight of the hoist without cradle, kg	6400
Weight of the hoist with cradle, kg	6600
Maximum hook lowering depth, mm	1500
Requirements for the site where the hoist is allowed to operate with a load:	
- ground pressure (specific), MPa (kgf/cm ²)	0.56 (5.7)
- slope angle, no more than	3°
Time of complete change of boom outreach, s	24
Amount of oil in the hydraulic system, l	39
Nominal pressure in the hydraulic system, MPa	14.5
Maximum pressure in hydraulic system, Mpa	16.5
Tank filling capacity, l	16

The special mounting hoist BELARUS OPT-9195 is equipped with:

- a system monitoring the orientation of the cradle in the vertical position;
- a system for blocking the lifting and rotation of the boom when the hoist is not set on riggers;
- a device for blocking the lifting of the riggers when the boom is in the working position;
- a system for emergency lowering of the cradle in case of failure of the hydraulic system or engine of the base machine;
- a device protecting the outriggers of the hoist from spontaneous extension during the movement of the hoist;
- an emergency engine stop system and a sound signal button controlled from the cradle;
- a cradle with insulators for work on power transmission lines up to 1000 V with the "Barrier 1M" protective system.

* Supplied upon customer's request.



The BK-205D boring machine can be used for boring and installing supports during the construction of power transmission and communication lines, repair and maintenance of power transmission lines.

The machine is also used for planning small construction sites; filling trenches and pits; loading and transporting bulk materials over short distances.

Basic equipment:

- bulldozer blade.

Optional equipment:

- loader equipment PFS-0.75.

Manufacturer:

JSC "Mozyr Machine-Building Plant"



BASIC PARAMETERS AND SPECIFICATIONS

Base chassis	tractor BELARUS 92P
Maximum boring depth, m	3
Boring diameter, m	0.36–0.80
Boring method	cyclic
Boring angle, degrees	60°–102°
Maximum torque on the boring tool, N·m	5900
Estimated maximum axial load on the drilling tool during raising, kN	31.65
Type of boring tool feed drive	hydraulic
Type of boring tool rotation drive	hydraulic
Type of crane equipment drive	hydraulic
Rotational speed of boring tool, rpm	(at 1400 rpm of the engine), value 35..153
Maximum lifting capacity of crane equipment, kg	1400
Maximum load capacity of the forklift (PFS-0.75), kg	750
Maximum lifting height of the cargo hook, m	7
Technical performance (when drilling wells with a diameter of 0.5 m to a depth of 3 m in unfrozen soils of category III), m/h	15
Overall dimensions in transport position (blade)/PFS-0.75, mm:	
length	6200/7400
width	2020/2100
height	3990/3990
Overall dimensions in working position, mm:	
length	6200/7400
width	2020/2100
height	3990/7500
Climbing grade in transport position, degrees:	
longitudinal	15
transverse	12
Full weight, kg	6000/6400

FORESTRY MACHINERY

MUL-82.2

MUL-1221

MPT-461.1

MPT-461.2

MLPT-344

ML-131

MLH-46

MLH-265

M80L86

OUL-24

Log pusher ZT-14





BELARUS MUL-82.2



The machine is designed for reforestation and caring for a felling area after deforestation, as well as for collecting, loading-unloading and transporting of assortment, cleaning of felling residues, etc., when using attachments and trailed equipment.

Basic configuration:

- Forestry protection.

Optional configuration:

- Log pusher T17.
- Forest cleaning equipment OUL-24 located in the front or in the back
- Skidding grapple ZT14.
- Skidding attachment PT-50.

Manufacturer:

OJSC "Mozyr Machine Building Plant"

ENGINE

Type	diesel, in-line, six-cylinder, liquid-cooled, naturally aspirated
Brand, model	Minsk Motor Plant, D-243
Power, kW [h. p.]	60 [82]
Crankshaft rated speed, rpm	2200
Max. torque, N·m	260.5
Specific fuel consumption at operating power, g/kW·h	235
Backup torque, %	15
Fuel tanks capacity, l	130

DIMENSIONS

Operating weight, kg	5660
Overall dimensions (length/width/height), mm	5850/2530/3000
Track, mm:	
- front wheels	1800
- rear wheels	1800
Road clearance, mm	430
Least turning radius, m	5.0

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears (forward/reverse)	18/4
Travel speed (working/admissible transportation), km/h	8.6/19.4

EQUIPMENT

Cleaning equipment:	
- overall dimensions (width/height), mm	2520/1180
- width of strip cleaned for one pass, mm	2400
- number of moving work parts, pcs	5
Pusher:	
- overall dimensions (width/height), mm	1750/900
- rise height, mm	1100
- lowering depth, mm	53

CONFIGURATION

Skidding equipment	Skidding grapple ZT-14	Skidding attachment PT-50
Control	hydraulic from the machine cab	hydraulic from the machine cab
Pulling force, kN	-	50
Cable winding speed, m/s	-	0.5-1.5
Length/diameter of cable, m/mm	-	70/12
Number of places for chain chokers	-	6
Squeezing force on the ends of fangs, kN	80	-
Diameter of tree-trunk skidded, mm	120-800	-



The machine is designed for reforestation and caring for a felling area after deforestation, as well as for collecting, loading-unloading and transporting of assortment, cleaning of felling residues, etc., when using attachments and trailed equipment.

Basic equipment:
- Forestry protection.

Optional equipment:
- Forest cleaning equipment OUL-24 located at the front and in the back.
- Log pusher TTP-411.
- Larger rear wheels.

Manufacturer:
OJSC "Mozyr Machine Building Plant"



ENGINE

Type	diesel, in-line, six-cylinder, liquid-cooled, turbocharged	
Brand, model	Minsk Mototr Plant, D-260.2 (D-260.2C)	
Power, kW (h. p.)	96 (130)	98 (134)
Crankshaft rated speed, rpm	2100	
Displacement, l	7.12	
Max. torque, N·m	500	529
Specific fuel consumption at operating power g/kW·h	233	238
Backup torque, %	140	
Fuel tanks capacity, l	15	

TRANSMISSION

Coupling clutch	dry, double-disk, spring-loaded	
Gearbox	mechanical, fixed-ratio	
Number of gears (forward/reverse)	16/8	
Travel speed, km/h:		
working (on forest roads/admissible transportational)	8/30	

DIMENSIONS

Operating weight, kg	7000
Overall dimensions (length/width/height), mm	6435/2250/3000
Track, mm:	
– front wheels	1850
– rear wheels	1950
Road clearance, mm	370
Least turning radius, m	5.5
Volume of the skidded pack, m³, not less than	5

EQUIPMENT

Cleaning equipment:	
– overall dimensions (width/height), mm	2520/1180
– width of strip cleaned for one pass, mm	2400
– number of moving work parts, pcs	5
– height of obstacles (stumps) crossed, mm	250
Pusher:	
– overall dimensions (width/height), mm	2100/897
– rise height, mm	1195
– lowering depth, mm	53



BELARUS MPT-461.1



The machine is designed for collecting, loading and transporting assortment to loading bays or directly to a consumer.

The semitrailer of the machine can be equipped with BELARUS OPL.M1 equipment for loading and transporting felling residues.

Basic equipment:

- forestry semi-trailer PL-9.

Optional equipment:

- Forestry semi-trailer PL-9-03.
- Forestry semi-trailer PL-9-07.

Manufacturer:

OJSC "Mozyr Machine Building Plant"

POWERING UNIT

Model	versatile forestry machine BELARUS MUL-82.2
Engine:	
- type	diesel, in-line, four-cylinders, naturally aspirated
- brand, model	Minsk Motor Plant, D-243
- power, kW (h. p.)	60 (81)
- Max. torque, N·m	260,5
- specific fuel consumption at operating power, g/kW·h	229
- fuel tanks capacity, l	130
Transmission:	
- coupling clutch	dry, single-disk, spring-loaded
- gearbox	mechanical, fixed-ratio
- number of gears (forward/reverse)	16/4
- maximum admissible travel speed, km/h:	
on public driveways	19.4
on forest roads	8.6
Track, mm	1800

DIMENSIONS

Road clearance, mm	350
Least turning radius, m	8.5
Length of transported assortment, m	2-6

SEMI-TRAILER

Type	Uniaxial, four-wheeled, frame structured
Cargo platform	welded with movable guard in the front with bolsters
Track, mm	1800

CONFIGURATION

Semi-trailer model	PL-9	PL-9-03	PL-9-07
Carrying capacity, kg	9000	11000	11000
Hydraulic manipulator			
- model	GM-42	GM-42T	GM-50
- load moment, kN·m	42	42	67
- boom reach, m	5.55	6.5	7.2
- maximum angle of rotation in the horizontal plane	380°	380°	380°
Machine operating weight, kg	8950	8970	9550
Overall dimensions of the machine in transport position, mm			
- length	10670	10670	11500
- width	2320	2320	2320
- height	3200	3300	3390





The machine is designed for collecting, loading and transporting assortment to loading bays or directly to a consumer.

The semitrailer of the machine can be equipped with BELARUS OPL.M1 equipment for loading and transporting felling residues.

Basic equipment:

- Forestry semi-trailer PL-9.

Optional equipment:

- Forestry semi-trailer PL-9-03.
- Forestry semi-trailer PL-9-07.

Manufacturer:

OJSC "Mozyr Machine Building Plant"

POWERING UNIT

Model	multipurpose forest machine BELARUS MUL-1221		
Engine:			
- type	diesel, liquid-cooled, six-cylinder, turbocharged		
- brand, model	Minsk Motor Plant, D-260 D-260.2C		
- power, kW (h. p.)	96 (130)	98 (134)	
- maximum torque, N-m	500	529	
- specific fuel consumption at operating power, g/kW-h	233	238	
- fuel tanks capacity, l		140	
Crankshaft rated speed, rpm		2100	
Transmission			
- coupling clutch	dry, double-disk, spring-loaded		
- gearbox	mechanical, fixed-ratio		
- number of gears (forward/reverse)		16/8	
- maximum permissible travel speed, km/h:			
on public driveways		30	
on forest roads		8	
Track, mm		1850	

DIMENSIONS

Road clearance, mm	370
Least turning radius, m	8.5
Length of transported assortment, m	2-6

SEMI-TRAILER

Type	Unaxial, four-wheeled, frame structured
Cargo platform	welded with movable guard in the front with bolsters
Track, mm	1800

CONFIGURATION

Semi-trailer model	PL-9	PL-9-03	PL-9-07
Carrying capacity, kg	9000	11000	11000
Hydraulic manipulator:			
model	GM-42	GM-42T	GM-50
load moment, kN-m	42	42	67
boom reach, m	5.5	6.5	7.2
maximum angle of rotation in the horizontal plane	380°	380°	380°
Machine operating weight, kg	9800	9820	10400
Overall dimensions of the machine in transport position, mm			
- length	11260	11260	12090
- width	2320	2320	2320
- height	3200	3300	3390

BELARUS MLPT-344



The machine is designed for collecting, loading, transporting assortment along felling sites and skid roads, as well as for unloading, sorting and stacking.

The use of the machine is effective on soils with medium and high bearing capacity.

Basic equipment:

- Air-conditioner.
- Engine preheater.
- Hydraulic manipulator L 50T(72).

Manufacturer:

OJSC "Minsk Tractor works"

ENGINE

Type	diesel, in-line, liquid-cooled, turbocharged and intercooled
Brand, model	Minsk Motor Plant, D-245.2S2
Power, kW (h. p.)	90 (120)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs	4
Displacement, l	4.75
Max. torque, N·m	501
Specific fuel consumption at operating power, g/kW·h	254
Backup torque, %	25
Fuel tanks capacity, l	160

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gearbox	mechanical, fixed-ratio
Number of gears (forward/reverse)	16/8
Travel speed (forward/reverse), km/h	1.4–26.5/2.2–12.7

DIMENSIONS

Type	biaxial, with articulated frame, with wheel arrangement 4K4
Operating weight, kg	12830
Base, mm	5200
Overall dimensions (length/width/height), mm	10280/2930/3500
Track, mm	2150
Road clearance, mm	600
Height of the obstacle crossed, mm	500
Least turning radius, m	9.1
Carrying capacity, kg	7000
Length of transported assortment, m	2, 4, 5, 6
Cargo platform	welded with guard in the front and bolsters

EQUIPMENT

Hydraulic manipulator:	L 50T(72)
- load moment, kN·m	55
- boom reach, m	7.2
- maximum angle of rotation in the horizontal plane	370°



The machine is designed for collecting, loading, transporting assortment along felling sites and skid roads, as well as for unloading, sorting and stacking. The use of the machine is effective on soils with medium and high bearing capacity.

Basic equipment:

- Air-conditioner.
- Engine preheater.
- Hydraulic manipulator DOT PRO 70KF.

Manufacturer:

OJSC "Minsk Tractor works"



ENGINE

Type	diesel, in-line, liquid-cooled, turbocharged and intercooled
Brand, model	Minsk Motor Plant, D-245.2S2
Power, kW (h. p.)	90 (120)
Crankshaft rated speed, rpm	2200
Number of cylinders, pcs.	4
Displacement, l	4.75
Maximum torque, N·m	501
Specific fuel consumption at operating power, g/kW·h	254
Backup torque, %	25
Fuel tanks capacity, l	160

TRANSMISSION

Coupling clutch	dry, single-disk, spring-loaded
Gear box	mechanical, fixed-ratio
Number of gears (forward/reverse)	16/8
Travel speed (forward/reverse), km/h	1.4–26.5/2.2–12.7

DIMENSIONS

Type	biaxial, with articulated frame with wheel arrangement 6K6
Operating weight, kg	14830
Base, mm	5200
Overall dimensions (length/width/height), mm	10280/2930/3500
Track, mm:	
- between front axle wheels	2150
- between the wheels of tandem bogie	2260
Road clearance, mm	600
Height of the obstacle crossed, mm	500
Least turning radius, m	9.1
Carrying capacity, kg	10000
Length of transported assortments, m	2, 4, 5, 6
Cargo platform	welded with guard in the front and bolsters

EQUIPMENT

Hydraulic manipulator:	DOT PRO 70 KF
- load moment, kN·m	75
- boom reach, m	8.11
- maximum angle of rotation in the horizontal plane	380

BELARUS MLH-46

BELARUS MLH-46 forest harvester machine is designed to perform felling, debranching and crosscutting operations during forest maintenance felling.

Manufacturer:

OJSC "Mozyr Machine Building Plant"



FORESTRY MACHINE

Type	biaxial, with articulated frame, with wheel arrangement 4x4
Brand	BELARUS
Model	MLH-46
Machine control	joysticks, Sakae minijoysticks

ENGINE

Brand, model	AgcoPower 49 AWF
Power, kW	124
Crankshaft rated speed, rpm	2100
Fuel tank, l	180

TRANSMISSION

Type	Hydrostatic
Tires	Alliance 540/65-28

HYDRAULIC MANIPULATOR

Brand, model	Kesla 671H
Reach, m	7.13
Overall lifting moment, kN-m	55
Turning moment, kN-m	17
Rotator	BBR08HL
Clevis, mm	Kesla 140

HYDRAULICS

Oil tank capacity, l	130
Operating pressure, bar	230

ELECTRICAL SYSTEM

Accumulator battery	24 V, 2x145 A-h
Charging alternator, A	100 A
Brakes	multi-disks
Cab	comfortable cab with air-conditioner, radio, large glass area
Safety standards	(FOPS, ROPS, OPS)
Windows, mm	12, polycarbonate
Operator's seat	pneumatic seat KAB 564 and head cushion

DIMENSIONS AND TRANSPORT CHARACTERISTICS

Operating weight, kg	9480
- length (without crane)	4900
- width	2355
- height when transporting, mm	3140
Wheel base, mm	2760
Clearance, mm	630
Turning radius, mm	4030
Turning angle	50°
Speed, km/h	0-13
Traction force, kN-m	130

HARVESTER HEAD

Brand, model	Keto 55 Supreme
Harvester head	
control system (computer)	ProLOG Technion xLOGGER
Height at felling position, mm	1100
Height at crosscutting position, mm	1200
Width at open position, mm	1000
Width at closed position, mm	830
Weight, kg	510
Max. felling diameter, mm	370
Max. crosscutting diameter, mm	320
Debranching knives quantity, pcs.	3
Max. operating pressure, bar	260
Recommended hydraulic system flow, l/min	260
Chain blade	18"
Debranching unit force, kN	15
Tree maximum weight, kg	700
Max. debranching unit speed, m/s	3.8



BELARUS MLH-265

BELARUS MLH-265 forest harvester machine is designed to perform felling, debranching and crosscutting operations during clear and selective felling at the logging area. The harvester is equipped with a swiveling, self-stabilizing cab that meets all safety standards.

Manufacturer:

OJSC "Mozyr Machine Building Plant"



FORESTRY MACHINE

Type	biaxial, with articulated frame, with wheel arrangement 8x8
Brand	BELARUS
Model	MLH-265
Operating weight, kg	21000
Maximum permissible weight (ROPS), kg	30000
Safety cab (FOPS, ROPS, OPS)	
Noise level, dB (A)	71, hard-coated polycarbonate windows

ENGINE

Brand, model	AgcoPower 74 AWF
Power, kW	170
Crankshaft rated speed, rpm	2100
Fuel tank, l	360

TRANSMISSION

Gearbox	two speed ranges in the front and in the back 1 gear 0–8 km/h, 2 gears 0–25 km/h four-wheel drive can be disengaged rear and front mechanical differential lock
Tires:	
Front and rear	710/45–26,5

HYDRAULICS

Oil tank capacity, l	220
Operating pressure, bar	210

ELECTRICAL SYSTEM

Voltage, V	24
Accumulator battery, A-h	2x180
Charging alternator, A	2X100
Service lights, pcs.	14

DIMENSIONS

Length (without crane), m	8.22
Width (with tire width 710 mm), m	2.89
Height (machine height), m	3.69
Road clearance, m	0.63

HARVESTER HEAD

Type	Kesla RH27 II/Kesla RH26 II
Width with open head, mm	1670/1350
Width with closed head, mm	1210/980
Length, mm	1565/1400
Height (without rotator), mm	1890/1390
Weight (without rotator), kg	1290/840
Maximum. Cutting diameter, mm	780/670
Feeding (rollers/stroke)	2 rollers
Maximum. Rollers opening, mm	700/580
Knives, pcs.	3 movable + 1 fixed/ 4 movable + 1 fixed
Force, kN	23–36/24
Diameter from tip to tip, mm	480/390
Maximum. Front knives opening, mm	720/600
Максимум. Rear knives opening, mm	760/680
Operating pressure, bar	280/210–240
Required consumption, l/min	250/200–250
Required power, kW	120/70–100
Chain blade, mm	900/635

HYDRAULIC MANIPULATOR

Brand, model	Mesera M 240 H or Mesera M 241 H
Grip radius (depends on harvester head)	10.3/11.1
Lifting moment (gross), kN·m	240
Crane weight, kg	2750–2840

BELARUS M80L86

Hydraulic manipulator M80L86 - is a development of the classic design of hydraulic manipulators of M75 series. Manipulator design has been further developed to improve operational qualities, reliability and ergonomics.

General design features:

- hydraulic manipulator M80L86 is a development of the M75 series manipulators produced by OJSC «Mozyr Machine Building Plant» and features improved design of the boom equipment, support turning device, control post and improved hydraulic distributor;
 - the basic configuration of the product includes the option of hydraulic outrigger beam extension together with mechanical turning outriggers to the transport position (by means of guides);
 - the control post design was changed to improve ergonomics and work safety, a hood for protection from precipitation is included in the basic equipment;
- Additional work area lights have been added.

Manufacturer:

OJSC "Mozyr Machine Building Plant"

TECHNICAL SPECIFICATIONS

Model	M80L86
Location of the working zone**	above the fixed beam of the SPM
Load moment, kN·m	80
Turning angle of horizontal plane, degrees	390
Turning moment in horizontal plane, kN·m	16
Extension sections number, pcs.	2
Maximum outreach, m, not less than	8.6
Load capacity at maximum outreach, kg*	900
Load capacity at outreach 4 m*	1900
Design weight at basic configuration, kg*	2500
Working body	ZCH-035
Cross-sectional area of the working body with the jaw end closed, m ²	0.35
Recommended oil tank capacity, l, not less than	100
Recommended pump performance, l/min	80

*The parameter is specified without taking into account the weight of the implement, rotator, suspension and fixing elements.

**The position of the working area can be changed on request.



Forest cleaning equipment.

Equipment as a part of the tractor is intended for:

- clearing the felling residues from the felling site after clean cutting of the forest;
- making rolls out of wood and shrub pulp from felling residues.

Manufacturer:
OJSC "Mozyr Machine Building Plant"



TECHNICAL SPECIFICATIONS

Weight, kg	470
Width of strip cleared for one pass, mm	2400
Number of moving work parts, pcs.	5
Height of obstacles (stumps) crossed, mm	250
Dimensions (length/width/height), mm	930/2480/1170

CONFIGURATION

Configuration	OUL24	OUL24-01	OUL24-02
Weight, kg	660	640	470

The equipment is attached to forestry tractors and supplied in the following configurations:

- OUL24 – for mounting on the front beam of the BELARUS MUL-82.2 multi-purpose forest machine;
- OUL24-01 – for mounting on the front beam of the BELARUS MUL-1221 multi-purpose forest machine;
- OUL24-02 – for mounting on the rear lift linkage NU-2 of tractor of traction class 14, 2.

The attaching hardware included in the OUL-24 and OUL-24-01 configurations also allows to install the equipment on NU-2 rear lift linkage .

LOG PUSHER T-17/TTP-411



The pusher is intended for forming bundles (stacking) of assortments, tree trunks, timber and removing branches and felling residues into drags within the harvesting area during clean felling and forest maintenance felling.

Can be used for snow clearing and earthworks

Manufacturer:

OJSC "Mozyr Machine Building Plant"

DIMENSIONS

Pusher T-17 (for installation on MUL-82.2)

Dimensions, mm

- length	1225
- width	1750
- height	900

Weight, kg

440

Rise height, mm

1100

Lowering depth, mm

53

Pusher TTP-411 (for installation on MUL-1221)

Dimensions, mm:

- width	2100
- height	897

- weight, kg

480

Rise height, mm

1195

Lowering depth, mm

53



SKIDDING GRAPPLE ZT-14

The skidding grapple is intended for skidding timber at logging sites. It can be coupled with tractors of traction class 14. Raising and lowering of the skidding attachment is carried out with the help of the tractor's rear lift linkage.

Manufacturer:
OJSC "Mozyr Machine Building Plant"

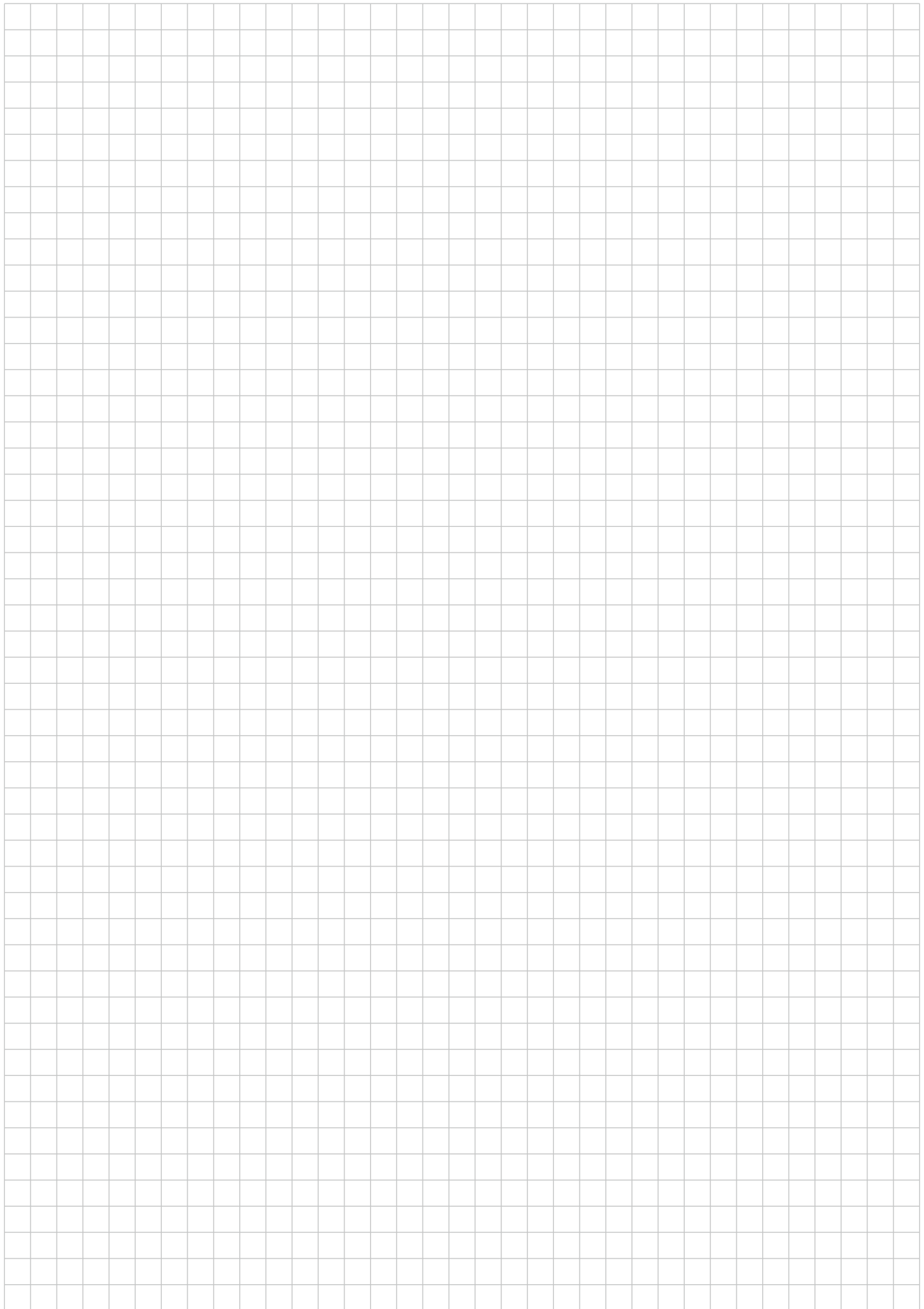


DIMENSIONS

Type	linkage-mounted
Control	hydraulic from the tractor's cab
Pressing force on the jaws tips, kN	80
Diameter of the skidded tree-trunk, m	from 0.12 to 0.8
Dimensions, mm:	
- length	875
- width (closed jaws)/(opened jaws)	880/1660
- height (closed jaws)/(opened jaws)	860/1230
Weight, kg	300

FOR NOTES





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To be customer-oriented, to develop our staff and partners, to provide optimal solutions for efficient growth.

To supply products for various business fields to our customers in a timely manner and on beneficial terms, while offering opportunities and guaranteeing maximum work performance.

Our aim

To provide the technical level and quality of manufactured products taking into account the requirements and expectations of customers.

The holding managing company is Minsk Tractor Works, which was founded in 1946. This is the most popular brand in CIS countries, and one of the most well-known in the world.

We manufacture:

Over 300 tractor models and options for all climatic and operation conditions.

Power tillers and compact tractors.

Small-size tractors.

Versatile row-crop tractors with the capacity from **50 to 130** h. p.

General-purpose tractors with the capacity from **150 to 355** h. p.

Crawler tractors.

Tractors implements for loading-unloading operations.

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- vehicles for municipal use;

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Distinctive features of all tractors and machines are reliability and comfort, high productivity, simplicity of operation and maintenance.

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3 Vitebsk Plant of Tractor Spare Parts

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5 Mozyr Machine-Building Plant

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