





*WE KNOW THE ROADS – THE ROADS KNOW US*

Farmery is a craftsmanship but painstaking work.

Only the optimal interaction of nature, human and machinery can produce a desired result.

Today machines do the majority of work for a human.  
Agricultural machinery is exposed to heavy load, working sometimes 24 hours a day, and often in severe environment.

An extreme load falls on tyres, which are actually an interface between machine, human and soil, and play a key role in securing reliable, cost effective and efficient operation of the machinery.

We know how important farmers' work is, and we appreciate time and effort of people who are doing this work.

We care about topsoil conservation by making non-destructive tyres.

And that's why every fifth agricultural vehicle in Ukraine uses our tyres which are in an increasing demand among farmers abroad.



**K-96**  
**4.00-10**

Bias tyre with multi-purpose tread pattern for use on all-category roads.

**Recommended use:** carrier tricycles, motorcycles, trailers, agricultural equipment, free rolling front bogies.



**BΦ-242**  
**4.50-10**

Cost-effective bias tyre with multi-purpose tread pattern.

**Recommended use:** carrier wheels for the rakes, seeders, hitches, harrows and other agricultural machinery.



**Φ-292**  
**5.00-10**

Bias tyre with cross-country tread pattern, has high grip with soil, high self-cleaning property.

**Recommended use:** compact tractors, motor tillers, mowers and other mini vehicles.

Tyre model	K-96	BΦ-242	Φ-292	Φ-274
Rim diameter, inch	10	10	10	15.3
Tyre size	4.00-10C	4.50-10	5.00-10	10.0/75-15.3
Maximum load, kilogram-force	325	300	195	1360
Maximum load pressure, kPa	250	250	120	310
Load index	69	66	51	119
Type	TT	TT	TT	TT
Recommended rim	-	3,00D	4,00E	9,00
Overall diameter, mm	460	492	504	760
Section width, mm, not more	108	124/134	135	264
Maximum speed, km/h (Speed rating)	70 (E)	30 (A6)	30 (A6)	40(A8)
Ply rating	4	4	2	8

**Tyres for agricultural vehicles**

Rim diameter – 10", 15.3", 16"



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Rim diameter, inch	10	10	10	15.3
Tyre size	4.00-10C	4.50-10	5.00-10	10.0/75-15.3
Maximum load, kilogram-force	325	300	195	1360
Maximum load pressure, kPa	250	250	120	310
Load index	69	66	51	119
Type	TT	TT	TT	TT
Recommended rim	-	3,00D	4,00E	9,00
Overall diameter, mm	460	492	504	760
Section width, mm, not more	108	124/134	135	264
Maximum speed, km/h (Speed rating)	70 (E)	30 (A6)	30 (A6)	40(A8)
Ply rating	4	4	2	8

**Tyres for agricultural vehicles**

Rim diameter – 10", 15.3", 16"



**Φ-274**  
**10.0/75-15.3**

Bias tyre. Multi-purpose tread pattern provides good self-cleaning capability and high performance at all types of soil.

**Recommended use:** trailed cultivating machines, seeding and other agricultural machinery.



**Φ-288**  
**5.50-16**

The tyre has a high-duty flexible carcass construction and good handling. Multi-purpose tread pattern provides good self-cleaning capability and high performance.

**Recommended use:** carrier wheels for potato planters, other agricultural machines and equipment.



**Φ-122**  
**5.50-16**

Cost-effective tyre with cross-country tread pattern specially designed for high ground grip and good self-cleaning capability.

**Recommended use:** drive wheels of the compact vehicles, beet harvesters.

		Φ-288			Φ-122
<b>15.3</b>	<b>15.3</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>10.0/75-15.3</b>	<b>10.0/75-15.3</b>	<b>5.50-16</b>	<b>5.50-16</b>	<b>5.50-16</b>	<b>5.50-16</b>
1700	1900	600	850	1250	345
470	560	270	400	600	160
126	130	90	102	116	71
TT	TT	TT	TT	TT	TT
9,00	9,00	4,00E	4,00E	4,00E	4,00E
760	760	691	691	691	704
264	264	154	154	154	154
40(A8)	40(A8)	30 (A6)	40 (A8)	40 (A8)	25 (A5)
12	14	4	8	12	4



**C-1**  
**6.50/88-16**

This tyre has high performance and cost-effectiveness characteristics. Multi-purpose transverse-directed tread pattern provides a good grip, mud self-cleaning and high pulling power.

**Recommended use:** front wheels of the loaders, seeders, harrows and other machinery.



**TR-101** New!  
**6.50-16**

Bias tyres with multi-purpose tread pattern which has improved mud self-cleaning and wear resistance properties.

**Recommended use:** guiding wheels of tractors, guiding and free rolling front wheels of agricultural vehicles.



**Φ-249**  
**7.50-16**

Specially designed reliable low-pressure tyre with multi-purpose tread pattern.

**Recommended use:** carrier wheels for fodder harvesters and other agricultural machinery.

Tyre model	C-1		TR-101	
Rim diameter, inch	16	16	16	16
Tyre size	6.50/88-16	6.50/88-16	6.50-16	7.50-16
Maximum load, kilogram-force	630	730	775	545
Maximum load pressure, kPa	200	250	275	80
Load index	92	97	99	87
Type	TT	TT	TT	TT
Recommended rim	5,50F	5,50F	4.50E	6,00F
Overall diameter, mm	725	725	741	770
Section width, mm, not more	190	190	189	214
Maximum speed, km/h (Speed rating)	30 (A6)	30 (A6)	30 (A6)	30 (A6)
Ply rating	4	6	6	2



C-1  
TR-101  
Φ-249  
Φ-325  
Φ-276



**Φ-325**  
**210/80R16**

Radial tyre with cross-country tread pattern that provides reliable operation of the tractor in the field environment and good self-cleaning capabilities.

**Recommended use:** rear traction wheels of tractors.



**Φ-276**  
**13.0/75R16**

Radial tyre with multi-purpose tread pattern, which provides high wear resistance, good self-cleaning capability, handling, good ride comfort, and lower rolling resistance.

**Recommended use:** tractor trailers, harrows, seeders.

Φ-249		Φ-325		Φ-276	
<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>	<b>16</b>
<b>7.50-16</b>	<b>7.50-16</b>	<b>210/80R16</b>	<b>210/80R16</b>	<b>13.0/75R16</b>	<b>13.0/75R16</b>
730	900	710	710	1900	1900
140	210	160	160	240	240
97	104	96	96	130	130
TT	TT	TT	TT	TT	TT
6,00F	6,00F	5,50F	5,50F	W11	W11
770	770	734	734	900	900
214	214	205	205	336	336
30 (A6)	30 (A6)	40 (A8)	40 (A8)	30 (A6)	30 (A6)
4	6	-	-	-	-



**Ф-277**  
**9.00-16**

Bias tyre with a multi-purpose tread pattern provides reliable operation of vehicles.

**Recommended use:** carrier wheels of stock feeders, 2-4 ton trailers.



**Я-324А**  
**9.00-16**

Tyre with a multi-purpose tread pattern, which can be used on both dirt and paved roads.

**Recommended use:** carrier wheels of the 2-4 ton tractor trailers and other agricultural equipment and mounted tools.



**Л-163БЦ**  
**12-16**

Bias tyre with multi-purpose tread pattern that provides even tyre wear and excellent grip on hard and soft soil.

**Recommended use:** carrier wheels of agricultural machinery and implements, tractor trailers, combines.

Tyre model	Ф-277		Я-324А
Rim diameter, inch	16	16	16
Tyre size	9.00-16	9.00-16	9.00-16
Maximum load, kilogram-force	1650	2240	1550
Maximum load pressure, kPa	350	590	350
Load index	125	136	123
Type	TT	TT	TT
Recommended rim	6,00F	6,00F	6,0 demountable
Overall diameter, mm	860	870	896
Section width, mm, not more	254	260	255
Maximum speed, km/h (Speed rating)	30 (A6)	30 (A6)	30 (A6)
Ply rating	10	14	10



Ф-277  
 Я-324А  
 Л-163БЦ  
 В-103  
 В-105А



### B-103 7.50-20

Bias tyre with multi-purpose tread pattern and high self-cleaning capability, which can be used both during agricultural work and on paved roads.

**Recommended use:** steering wheels of tractors, steering and carrier wheels of agricultural vehicles.



### B-105A 8.3-20

Bias tyre with self-cleaning cross-country tread pattern.

**Recommended use:** tractor wheels of tractors.

Л-163БЦ		В-103	В-105А
16	20	20	20
12-16	7.5-20	7.5-20	8.3-20
1900	875	1030	850
250	280	370	250
130	103	109	102
ТТ	ТТ	ТТ	ТТ
W8	5,50F	5,50F	W7
930	910	910	950
325	205	205	211
30 (A6)	30 (A6)	30 (A6)	30 (A6)
8	6	8	8



**БЦФ-311**  
**9.00R20**

Radial tyre with multi-purpose tread pattern that provides high performance both on paved roads and off-road.

**Recommended use:** steering wheels of tractors, steering and carrier wheels of agricultural machinery.



**БЦФ-35**  
**11.2-20**

Bias tyre with cross-country tread pattern that provides reliable operation on hard and soft soil. It has an increased riding stability and low specific pressure on soil.

**Recommended use:** tractors.



**Ф-331**  
**13.6R20**

Radial tyre with cross-country tread pattern that has high grip and traction properties, low specific pressure on soil that provides optimal conditions for agricultural operations.

**Recommended use:** traction wheels of tractors.

Tyre model	БЦФ-311	БЦФ-35	Ф-331	
Rim diameter, inch	20	20	20	24
Tyre size	9.00R20	11.2-20	13.6R20	18.4-24
Maximum load, kilogram-force	1120	1285	1400	2240
Maximum load pressure, kPa	260	250	160	140
Load index	112	117	120	136
Type	TT	TT	TT	TT
Recommended rim	W7	W10	W12	DW16
Overall diameter, mm	930	985	1060	1400
Section width, mm, not more	234	284	345	467
Maximum speed, km/h (Speed rating)	40 (A8)	30 (A6)	40 (A8)	30 (A6)
Ply rating	6	8	8	8



**Φ-148**  
**18.4-24**

Tyre with cross-country low-density tread pattern, which provides good self-cleaning.

**Recommended use:** rear-steering wheels of combines and other agricultural vehicles.



**ИЯВ-79У**  
**21.3-24**

A traditional tractor tread with the pronounced center pattern provides good self-cleaning capability and reliable ground grip. Pulling power meets the requirements of modern agricultural machinery.

**Recommended use:** tractors, grain harvesters, corn-, potato and beet harvesters, hay-stackers, front loaders.

БЦФ-311

БЦФ-35

Φ-331

Φ-148

ИЯВ-79У

Φ-148		ИЯВ-79У		
24	24	24	24	24
18.4-24	18.4-24	21.3-24	21.3-24	21.3-24
3350	4250	2500	3875	4500
230	300	160	250	300
150	158	140	155	160
ТТ	ТТ	ТТ	ТТ	ТТ
DW16	DW16	DW18	DW18	DW18
1400	1400	1400	1400	1400
467	467	540	540	540
30 (A6)	30 (A6)	40 (A8)	40 (A8)	40 (A8)
10	12	10	12	16



## TR-301 28.1R26

Radial tyre with cross-country tread pattern. Tyre design provides reliable ground grip, self-cleaning capability and improved environmental performance. Operating conditions: off-road, stubble field, dirt roads, hard surface roads.

**Recommended use:** traction wheels of tractors and agricultural machines.

## TR-102\* 540/65R28

Radial tubeless tyre with cross-country tread pattern which has reliable grip, self-cleaning capability and improved environmental performance enables to use tyre on off-road, stubble field, dirt roads.

**Recommended use:** traction wheels of tractors.



Tyre model	TR-301		TR-102	
Rim diameter, inch	26	28	28	28
Tyre size	28.1R26	540/65R28	540/65R28	540/65R28
Maximum load, kilogram-force	4250	2300	2650	3250
Maximum load pressure, kPa	160	120	160	240
Load index	158	137	142	149
Type	TT	TL	TL	TL
Recommended rim	DW24	W16L	W16L	W16L
Overall diameter, mm	1735	1413	1413	1413
Section width, mm, not more	750	550	550	550
Maximum speed, km/h (Speed rating)	40 (A8), 50 (B)	40 (A8), 50 (B)	40 (A8), 50 (B)	40 (A8), 50 (B)
Ply rating	-	-	-	-

\* Advanced model

### Tyres for agricultural vehicles

Rim diameter – 26", 28", 32"



**TR-103\***  
**600/65R28**

Radial tubeless tyre with cross-country tread pattern which has good self-cleaning capability, high grip, and improved environmental performance. It is designed for use on off-road, stubble field, dirt roads.

**Recommended use:** traction wheels of tractors.

**TR-07**  
**650/75R32**

Radial tyre with cross-country tread pattern. Tire design provides reliable ground grip, self-cleaning capability and improved environmental performance. Operating conditions: off-road, stubble field, dirt roads.

**Recommended use:** traction wheels of combines and other agricultural machinery.



TR-301  
TR-102  
TR-103  
TR-07

TR-103			TR-07		
28	28	28	32	32	32
600/65R28	600/65R28	600/65R28	650/75R32	650/75R32	650/75R32
2650	3075	3750	4500	5450	6300
120	160	240	160	240	320
142	147	154	160	167	172
TL	TL	TL	TT/TL	TT/TL	TT/TL
DW20B	DW20B	DW20B	DW20A	DW20A	DW20A
1491	1491	1491	1789	1789	1789
591	591	591	645	645	645
40 (A8), 50 (B)	40 (A8), 50 (B)	40 (A8), 50 (B)	40 (A8)	40 (A8)	40 (A8)
-	-	-	-	-	-



## CM-101 800/65R32

Radial tyre. Directional cross-country pattern provides high pulling power and good mud self-cleaning capability.

**Recommended use:** traction wheels of combines, tractors and other agricultural machines.

Tyre model	CM-101			Φ-81	Φ-81M
Rim diameter, inch	32	32	32	32	32
Tyre size	800/65R32	800/65R32	800/65R32	30.5R32	30.5R32
Maximum load, kilogram-force	5450	6300	7500	4750	5450
Maximum load pressure, kPa	160	240	320	170	220
Load index	167	172	178	162	167
Type	TT/TL	TT/TL	TT/TL	TT	TT
Recommended rim	DW27B	DW27B	DW27B	27.00-32 demountable	DW27
Overall diameter, mm	1853	1853	1853	1830	1830
Section width, mm, not more	798	798	798	775	775
Maximum speed, km/h (Speed rating)	40 (A8)	40 (A8)	40 (A8)	30 (A6)	30 (A6)
Ply rating	-	-	-	12	16



**Φ-81; Φ-81M**  
**30.5R32**

Cross-country tread pattern provides self-cleaning and good pulling power, the radial design reduces specific material requirement compared to bias tyres of the similar size.

**Recommended use of Φ-81:** traction wheels of tractors.

**Recommended use of Φ-81M:** traction wheels of grain combine harvesters.



**БЦК-10**  
**30.5L-32**

High density of cross-country tread pattern improves tyre wear life for paved roads movement and reduces fuel consumption during operation.

**Recommended use:** traction wheels of combine harvesters, grain discharging trailers and other agricultural machines.



**Φ-136**  
**30.5L-32**

Low-profile tyre with increased lug height has high traction characteristics and good self-cleaning.

**Recommended use:** traction wheels of combines and other agricultural machines operating on waterlogged soil.

СМ-101

Φ-81

Φ-81M

БЦК-10

Φ-136

БЦК-10			Φ-136	
32	32	32	32	32
30.5L-32	30.5L-32	30.5L-32	30.5L-32	30.5L-32
5150	5450	5800	4750	5450
160	170	190	140	170
165	167	169	162	167
TT	TT	TT	TT	TT
DW27	DW27	DW27	DW27	DW27
1800	1800	1800	1870	1830
775	775	775	775	775
30 (A6)				
14	16	18	12	16



## Φ-179 30.5L-32

Low profile tyre. The cross-country tread pattern provides stability and improved manoeuvrability. Tyre design increases pulling power and reduces rolling resistance losses. Lightweight tyre produces a reduced specific pressure on soil and great fuel economy in case of combine harvesters operation.

**Recommended use:** traction wheels of grain combine harvesters, grain discharging trailers and other agricultural machines.

Tyre model	Φ-179			
Rim diameter, inch	32	32	32	32
Tyre size	30.5L-32	30.5L-32	30.5L-32	30.5L-32
Maximum load, kilogram-force	4750	5150	5450	5800
Maximum load pressure, kPa	140	160	170	190
Load index	162	165	167	169
Type	TT	TT	TT	TT
Recommended rim	DW27	DW27	DW27	DW27
Overall diameter, mm	1790	1790	1790	1790
Section width, mm, not more	775	775	775	775
Maximum speed, km/h (Speed rating)	30 (A6)	30 (A6)	30 (A6)	30 (A6)
Ply rating	12	14	16	18



**TR-07**  
**13.6R38**  
**15.5R38**

Radial tyre with cross-country tread pattern, good self cleaning and low area pressure on soil. The tyre is used on soft, agricultural soils and on off-road, hard surface roads.

**Recommended use:** traction wheels of tractors.

**БЦФ-2А**  
**15.5R38**

Radial tyre. Tread thickness is increased compared with 15.5R38 of TR-07 model and therefore provides higher resistance to cuts and punctures. The cross-country tread pattern provides good self-cleaning capability when working on soft agricultural soils.

**Recommended use:** traction wheels of tractors and other agricultural machinery. Can be also used for tractor-based excavators.

**TR-201**  
**16.9R38**

Radial tyre with cross-country low-density tread pattern, particular low area pressure on soil, good self cleaning.

**Recommended use:** traction wheels of tractors and other agricultural machines. Can be also used for tractor-based excavators.

		TR-07		БЦФ-2А	TR-201
32	32	38	38	38	38
30.5L-32	30.5L-32	13.6R38	15.5R38	15.5R38	16.9R38
6300	7300	1800	2120	2120	2575
220	280	160	160	160	160
172	177	128	134	134	141
TT	TT	TT	TT	TT	TT
DW27	DW27	W12	W14L	W14L	W15L
1790	1790	1550	1570	1570	1675
775	775	345	394	394	429
30 (A6)	30 (A6)	40 (A8)	40 (A8)	40 (A8)	40 (A8)
20	22	-	-	-	-

Φ-179

TR-07

БЦФ-2А

TR-201



**TR-202** <sup>New!</sup>  
**650/65R38**

Radial tubeless tyre with cross-country tread pattern. Tyre design provides reliable grip, mud self-cleaning capability, and improved environmental performance.  
Operating conditions: off-road, stubble field, dirt roads.

**Recommended use:** traction wheels of tractors.

**TR-203** <sup>New!</sup>  
**710/70R38**

Radial tubeless tyre with cross-country tread pattern. Tyre design provides reliable grip, mud self-cleaning capability, and improved environmental performance.  
Operating conditions: off-road, stubble field, dirt roads.

**Recommended use:** traction wheels of tractors.



Tyre model	TR-202			TR-203		IM-301		
	38	38	38	38				
Rim diameter, inch	38	38	38	38			15,3	
Tyre size	650/65R38	650/65R38	650/65R38	710/70R38			10.0/75-15.3	
Maximum load, kilogram-force	3750	4125/4500	4875	5300/5800	1360	1550	1700	1900
Maximum load pressure, kPa	120	160	240	160	310	390	470	550
Load index	154	157/160	163	166/169	119	123	126	130
Type	TT/TL	TT/TL	TT/TL	TT/TL	TT/TL	TT/TL	TT/TL	TT/TL
Recommended rim	DW20B	DW20B	DW20B	DW23A	9.00	9.00	9.00	9.00
Overall diameter, mm	1811	1811	1811	1959	760	760	760	760
Section width, mm, not more	645	645	645	716	264	264	264	264
Maximum speed, km/h (Speed rating)	40 (A8), 50 (B)	65 (D), 40 (A8)	40 (A8), 50 (B)	65 (D), 40 (A8)	40 (A8)	40 (A8)	40 (A8)	40 (A8)
Ply rating	-	-	-	-	8	10	12	14

**Tyres for agricultural vehicles**

Rim diameter – 15.3", 16", 20", 38", 42"

## ADVANCED MODELS

### IM-301

## 10.0/75-15.3

Bias tubeless tyre with multi-purpose tread pattern that ensures good self-cleaning. The tyre has high performance on all types of soil.

**Recommended use:** trailers, agricultural machinery for various purposes.

### TR-100

## 7.50R16

Radial tubeless tyre with multi-purpose tread pattern. It has good self-cleaning at use in the field conditions, low tread wear on hard surface roads.

**Recommended use:** tractors of 0.6-0.9 class, agricultural machinery.

### TR-105

## 280/85R20

Radial tubeless tyre with cross-country tread pattern. It has high traction properties. The tread pattern provides ride quality and low contact pressure on soil.

**Recommended use:** Recommended use: tractors of 0.9-1.4 class, agricultural machinery.

### TR-206

## 650/65R42

Radial tubeless tyre with cross-country tread pattern. It has high traction properties, improved environmental characteristics. It is used on all types of soil as well as on hard surface roads.

**Recommended use:** tractors of 3.0-5.0 class, agricultural machinery.

### TR-205

## 710/70R42

Radial tubeless tyre with cross-country tread pattern. It has high traction properties, improved environmental characteristics. It is used on all types of soil as well as on hard surface roads.

**Recommended use:** tractors of 3.0-5.0 class, agricultural machinery.

TR-100			TR-105		TR-206			TR-205	
16			20		42			42	
7.50R16			280/85R20		650/65R42			710/70R42	
2360	750	875	1120	1400	4250	5150	6000	5600	6500
710	280	320	160	240	160	240	320	160	240
138	98	103	112	120	158	165	170	168	173
TT/TL	TT/TL	TT/TL	TT/TL	TT/TL	TL	TL	TL	TT/TL	TT/TL
9.00	5.50F	5.50F	W10	W10	DW20B	DW20B	DW20B	DW23B	DW23B
760	792	792	984	984	1913	1913	1913	2061	2061
264	205	205	282	282	645	645	645	716	716
40 (A8)	40 (A8), 50 (B)	40 (A8), 50 (B)	40 (A8)	40 (A8)	40 (A8), 50 (B)				
18	-	-	-	-	-	-	-	-	-

TR-202

TR-203

IM-301

TR-100

TR-105

TR-206

TR-205



**BARO** GMBH  
REIFENHANDEL AUS LEIDENSCHAFT



**UTP-223**

**9.00-20**

Bias tyre with multi-purpose tread pattern.

**Recommended use:** steering wheels of tractors and carrier wheels of agricultural machines.



## UTP-14 21.3R24

Radial tyre with cross-country tread pattern.

**Recommended use:** traction wheels of tractors and agricultural machines.

## Φ-37 23.1R26

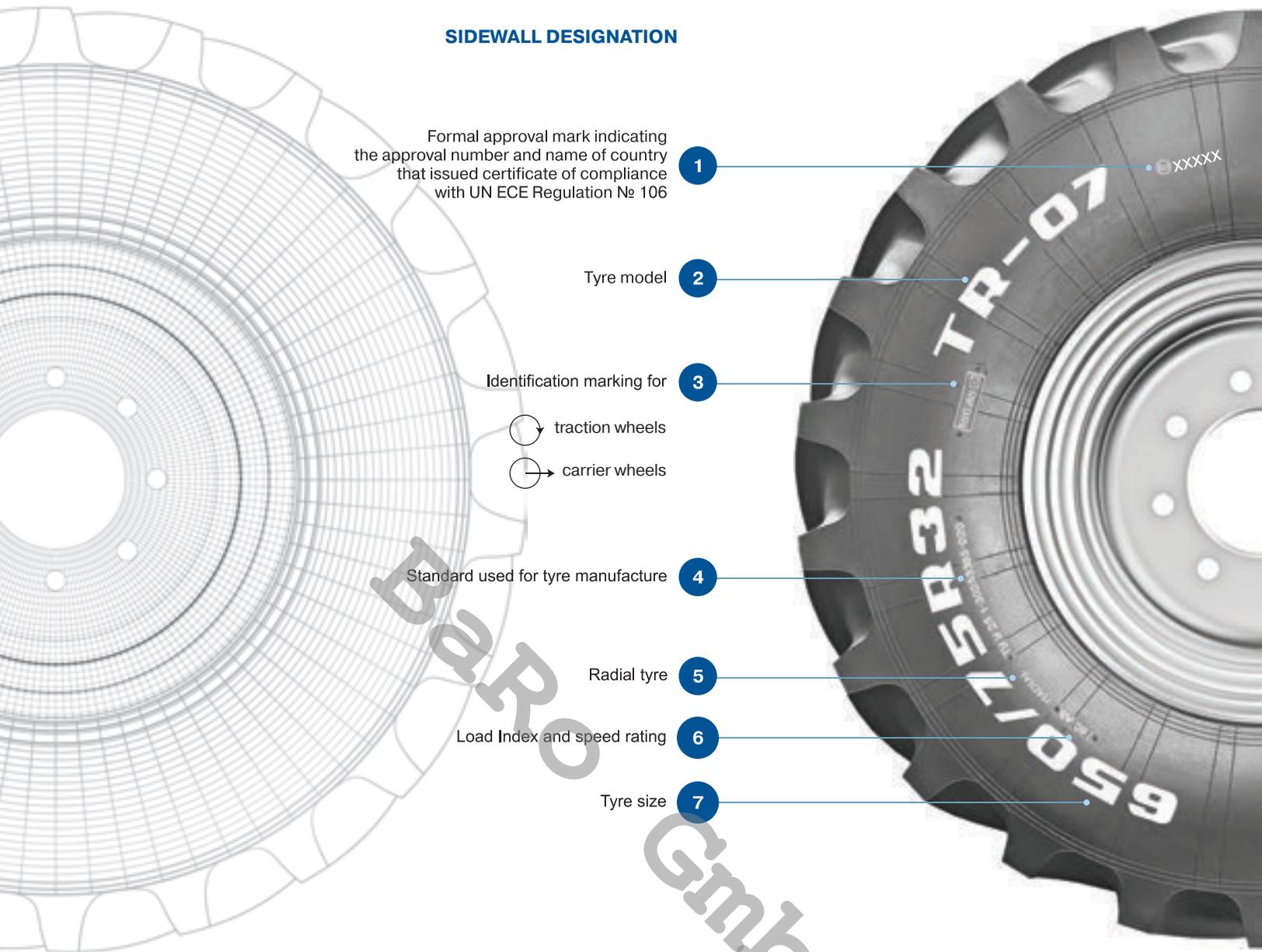
Radial tyre with cross-country tread pattern with good self-cleaning capability.

**Recommended use:** traction wheels of tractors, grain harvesters and forage harvesters.



Tyre model	UTP-223	UTP-14		Φ-37			
Rim diameter, inch	20	24	24	26	26	26	26
Tyre size	9.00-20	21.3R24	21.3R24	23.1R26	23.1R26	23.1R26	23.1R26
Maximum load, kilogram-force	1120	2500	3350	3150	3650	5300	5600
Maximum load pressure, kPa	260	160	240	120	160	320	280
Load index	112	140	150	148	153	166	168
Type	TT						
Recommended rim	W7	DW18	DW18	DW20	DW20	DW20	DW20
Overall diameter, mm	930	1400	1400	1605	1605	1605	1605
Section width, mm, not more	234	540	540	587	587	587	587
Maximum speed, km/h (Speed rating)	30 (A6)	30 (A6)	50 (B)	40 (A8)	40 (A8)	40 (A8)	25 (A5)
Ply rating	6	10	12	-	-	-	-

## SIDEWALL DESIGNATION



Formal approval mark indicating the approval number and name of country that issued certificate of compliance with UN ECE Regulation № 106

Tyre model

Identification marking for

○ traction wheels

○ carrier wheels

Standard used for tyre manufacture

Radial tyre

Load Index and speed rating

Tyre size

### Tyre size details

1 option **650 / 75 R 32**

1
2
3
4

2 option **15.5 R 38**

1
3
4

3 option **30.5 L - 32**

1
5
3
4

1. Section width in mm or inches (650 mm, 15.5 inch)

2. Aspect ratio (ratio of height to width), %

3. Radial design (or « - » for bias design)

4. Rim diameter, inch

5. Low profile

#### Other identification marks:

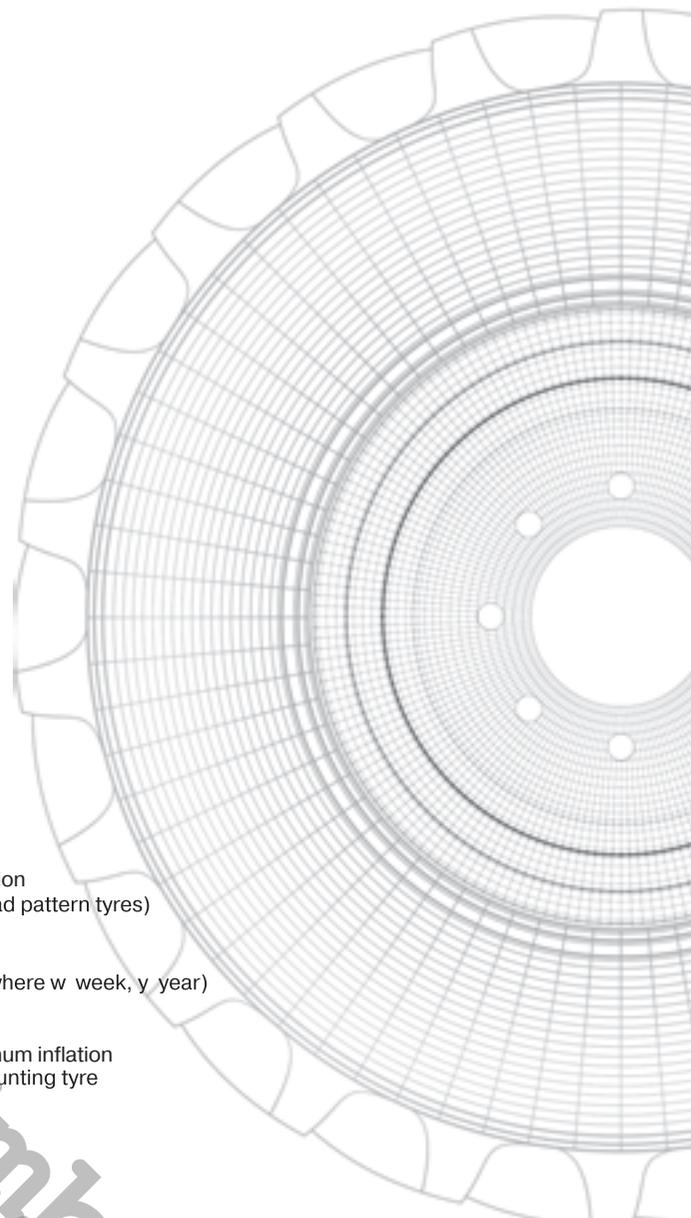
TT= tube type – tyre that requires a tube.

TL = tubeless – tyre that does not require a tube.

PR = ply rating – a special tag showing tyre capacity.



- 8 Brand name
- 9 Country of origin



- 10 Tyre rotation direction (for directional tread pattern tyres)
- 11 Manufacture date (in ww.yy format, where w week, y year)
- 12 Indication of maximum inflation pressure when mounting tyre

## Radial and bias tyres design

### Radial tyre

In the radial tyre the cords do not cross and run at right angles parallel to each other, and there is a rigid belt called 'breaker' over the radial section. Due to its design, the radial tyre may have fewer plies in the carcass (what improves the heat elimination). Radial tyres have less weight and the higher speed and grip properties.



### Bias tyre

In the bias tyre the cords in the plies run bias from bead to bead. The number of cord plies in this tyre should always be even. In addition, bias tyres have thicker sidewalls than the radial, what increases the side impact resistance.



Speed rating	A 1	A 2	A 3	A 4	A 5	A 6	A 7	A 8	B	C	D	E	F	G	J
Maximum speed, km/h	5	10	15	20	25	30	35	40	50	60	65	70	80	90	100

**Speed rating** is a letter symbol showing the maximum limit speed.

## Technical specifications for agricultural tyres

Tyre model	Rim diameter, inch	Tyre size	Maximum load, kilogram-force	Maximum load pressure, kPa	Load index	Tube	Valve type
K-96	10	4.00-10C	325	250	69	4.00-10	ЛК-35-11,7
ВФ-242	10	4.50-10	300	250	66	4.50-10	ЛК-35-16,5
Ф-292	10	5.00-10	195	120	51	4.50-10	ЛК-35-16,5
Ф-274	15.3	10.0/75-15.3	1360	310	119	10.0/75-15.3	ЛК-35-16,5
			1550	390	123		
			1700	470	126		
			1900	560	130		
Ф-288	16	5.50-16	600	270	90	5.50-16	ЛК-35-16,5
			850	400	102		
			1250	600	116		
Ф-122	16	5.50-16	345	160	71	5.50-16	ЛК-35-16,5
С-1	16	6.50/88-16	630	200	92	5.50-16	ЛК-35-16,5
			730	250	97		
TR-101	16	6.50-16	775	275	99	5.50-16	ЛК-35-16,5
Ф-249	16	7.50-16	545	80	87	7.50-16; 5.50-16	ЛК-35-16,5
			730	140	97		
			900	210	104		
Ф-325	16	210/80R16	710	160	96	6.95-16	ЛК-35-16,5
Ф-276	16	13.0/75R16	1900	240	130	12-16	ГК-50; ГК-95; ГК-105; ГК-115; ГК-135; ЛК-35-16,5
Ф-277	16	9.00-16	1650	350	125	9.00-16	ГК-50; ГК-95; ГК-105; ГК-115
			2240	590	136		
Я-324А	16	9.00-16	1550	350	123	9.00-16	ГК-50; ГК-95; ГК-105; ГК-115
Л-163БЦ	16	12-16	1900	250	130	12-16	ГК-50; ГК-95; ГК-105; ГК-115; ГК-135; ЛК-35-16,5
В-103	20	7.50-20	875	280	103	7.50-20	ЛК-35-16,5
			1030	370	109		
В-105А	20	8.3-20	850	250	102	8.3-20	ТК; ГК-50
БЦФ-311	20	9.00R20	1120	260	112	9.00-20; 8.3-20	ГК-135; ТК; ГК-50
БЦФ-35	20	11.2-20	1285	250	117	11.2-20	ТК; ГК-50
Ф-331	20	13.6R20	1400	160	120	13.6-20	ТК
Ф-148	24	18.4-24	2240	140	136	18.4-24	ТК
			3350	230	150		
			4250	300	158		
ИЯВ-79У	24	21.3-24	2500	160	140	18.4-24	ГК-105
			3875	250	155		
			4500	300	160		
TR-301	26	28.1R26	4250	160	158	28.1-26	ТК
TR-102*	28	540/65R28	2300	120	137	tubeless	-
			2650	160	142		
			3250	240	149		
TR-103*	28	600/65R28	2650	120	142	tubeless	-
			3075	160	147		
			3750	240	154		
TR-07	32	650/75R32	4500	160	160	30.5L-32; 30.5-32	ТК
			5450	240	167		
			6300	320	172		
СМ-101	32	800/65R32	5450	160	167	30.5L-32	ТК
			6300	240	172		
			7500	320	178		
Ф-81	32	30.5R32	4750	170	162	30.5L-32; 30.5-32	ТК
Ф-81М	32	30.5R32	5450	220	167	30.5L-32; 30.5-32	ТК

\* Advanced model

Recommended rim	Allowable alternative rim	Tire flap	Overall diameter, mm	Section width, mm, not more	Static radius, mm	Maximum speed, km/h (Speed rating)	Ply rating
-	-	-	460	108	213	70 (E)	4
3,00D	4,00E	-	492	124/134	227	30 (A6)	4
4,00E	4,00E	-	504	135	228	30 (A6)	2
9,00	9,00	-	760	264	343	40(A8)	8
							10
							12
							14
4,00E	4,50E	-	691	154/165	325	30 (A6)	4
							8
							12
4,00E	4,50E	-	704	154/165	335	25 (A5)	4
5,50F	4,50E	-	725	190	335	30 (A6)	4
4,50F	5,50F	-	741	189 on a rim 4,50E	345	30 (A6)	6
							2
6,00F	6,00F	-	770	214	328	30 (A6)	4
							6
							6
5,50F	6,00F; W6	-	734	205	341	40 (A8)	2
W11	W8; 8,00 V	-	900	336	400	30 (A6)	8
6,00F	6,00F	-	860	254	388	30 (A6)	10
	W7; W8; W8L		870	260	380	30 (A6)	14
6,0 demountable	6,0 demountable	-	896	255	414	30 (A6)	10
W8	W8	12-16	930	325	416	30 (A6)	8
5,50F	5,00F	-	910	205	427	30 (A6)	6
							8
W7	W7	-	950	211	448	30 (A6)	8
W7	5,50F	-	930	234	425	40 (A8)	6
W10	W9; W7	-	985	284	460	30 (A6)	8
W12	W12	-	1060	345	480	40 (A8)	8
DW16	DW16	-	1400	467	623	30 (A6)	8
							10
							12
DW18	DW18	-	1400	540	640	40 (A8)	10
							12
							16
DW24	DW25A	-	1735	750	780	40 (A8), 50 (B)	-
W16L	W18L	-	1413	550	640	40 (A8), 50 (B)	-
DW20B	W18L	-	1491	591	672	40 (A8), 50 (B)	-
DW20A	-	-	1789	645	803	40 (A8)	-
DW27B	-	-	1853	798	830	40 (A8), 50 (B)	-
27.00-32 demountable	DW27	-	1830	775	830	30 (A6)	12
DW27	27.00-32 demountable	-	1830	775	830	30 (A6)	16

## Technical specifications for agricultural tyres

Tyre model	Rim diameter, inch	Tyre size	Maximum load, kilogram-force	Maximum load pressure, kPa	Load index	Tube	Valve type
БЦК-10	32	30.5L-32	5150	160	165	30.5L-32; 30.5-32	TK
			5450	170	167		
			5800	190	169		
Ф-136	32	30.5R-32	4750	140	162	30.5L-32; 30.5-32	TK
			5450	170	167		
Ф-179	32	30.5R-32	4750	140	162	30.5L-32; 30.5-32	TK
			5150	160	165		
			5450	170	167		
			5800	190	169		
			6300	220	172		
TR-07	38	13.6R38	1800	160	128	13.6-38	TK
		15.5R38	2120		134		
БЦФ-2А	38	15.5R38	2120	160	134	13.6-38	TK
TR-201	38	16.9R38	2575	160	141	16.9-38	TK
TR-202	38	650/65R38	3750	120	154	tubeless	-
			4125/4500	160	157/160		
			4875	240	163		
TR-203	38	710/70R38*	5300/5800	160	166/169	tubeless (710/70-38, 710/70-42)	-
IM-301	15.3	10.0/75-15.3*	1360	310	119	tubeless (10.0/75-15,3)	-
			1550	390	123		
			1700	470	126		
			1900	550	130		
			2360	710	138		
TR-100	16	7.50R16*	750	280	98	tubeless (7.50-16)	-
			875	320	103		
TR-105	20	280/85R20*	1120	160	112	tubeless (11.2-20)	-
			1400	240	120		
TR-206	42	650/65R42	4250	160	158	tubeless	-
			5150	240	165		
			6000	320	170		
TR-205	42	710/70R42*	5600	160	168	tubeless (710/70-38; 710/70-42)	-
			6500	240	173		
UTP-223	20	9.00-20	1120	260	112	7.50-20	ЛК-35-16.5
UTP-14	24	21.3R24	2500	160	140	18.4-24	ГК-105
			3350	240	150		
Ф-37	26	23.1R26	3150	120	148	23.1-26	TK
			3650	160	153		
			5300	320	166		
			5600	280	168		

\* Basic version of tyre is tubeless

## Load Indexes

Load indexes	Maximum permissible load, kilogram-force												
50	190	60	250	70	335	80	450	90	600	100	800	110	1060
51	195	61	257	71	345	81	462	91	615	101	825	111	1090
52	200	62	265	72	355	82	475	92	630	102	850	112	1120
53	206	63	272	73	365	83	487	93	650	103	875	113	1150
54	212	64	280	74	375	84	500	94	670	104	900	114	1180
55	218	65	290	75	387	85	515	95	690	105	925	115	1215
56	224	66	300	76	400	86	530	96	710	106	950	116	1250
57	230	67	307	77	412	87	545	97	730	107	975	117	1285
58	236	68	315	78	425	88	560	98	750	108	1000	118	1320
59	243	69	325	79	437	89	580	99	775	109	1030	119	1360

Recommended rim	Allowable alternative rim	Tire flap	Overall diameter, mm	Section width, mm, no more	Static radius, mm	Maximum speed, km/h (Speed rating)	Ply rating
DW27	DW27	-	1800	775	830	30 (A6)	14
							16
							18
DW27	DW27	-	1870	775	840	30 (A6)	12
			1830				16
DW27	DW27	-	1790	775	830	30 (A6)	12
							14
							16
							18
							20
22							
W12; DW12	W11; DW11	-	1550	345	717	40 (A8)	-
W14L	DW14L		1570	394	730		-
W14L	DW14L	-	1570	394	725	40 (A8)	-
W15L	W14L	-	1675	429	750	40 (A8)	-
DW20B	DW20B	-	1811	645	820	40 (A8), 50 (B)	-
						65 (D), 40 (A8)	
						40 (A8), 50 (B)	
DW23A	DW21A	-	1959	716	885	65 (D), 40 (A8)	-
9.00	-	-	760	264	343	40 (A8)	8
							10
							12
							14
18							
5.50F	-	-	792	205	365	40 (A8), 50 (B)	-
W10	W9; W7	-	984	282	450	40 (A8)	-
DW20B	-	-	1913	645	875	40 (A8), 50 (B)	-
DW23B	-	-	2061	716	935	40 (A8), 50 (B)	-
W7	5.50F	-	930	234	430	30 (A6)	6
DW18	DW18	-	1400	540	640	30 (A6)	10
						50 (B)	12
DW20	DW20	-	1605	587	715	40 (A8)	-
						25 (A5)	

Load indexes	Maximum permissible load, kilogram-force												
120	1400	130	1900	140	2500	150	3350	160	4500	170	6000	180	8000
121	1450	131	1950	141	2575	151	3450	161	4625	171	6150	181	8250
122	1500	132	2000	142	2650	152	3550	162	4750	172	6300	182	8500
123	1550	133	2060	143	2725	153	3650	163	4875	173	6500	183	8750
124	1600	134	2120	144	2800	154	3750	164	5000	174	6700	184	9000
125	1650	135	2180	145	2900	155	3875	165	5150	175	6900	185	9250
126	1700	136	2240	146	3000	156	4000	166	5300	176	7100	186	9500
127	1750	137	2300	147	3075	157	4125	167	5450	177	7300	187	9750
128	1800	138	2360	148	3150	158	4250	168	5600	178	7500	188	10000
129	1850	139	2430	149	3250	159	4375	169	5800	179	7750	189	10300

## Interchangeability of PJSC ROSAVA tyres and similar tyres of other manufacturers

### Tyres for traction wheels

PJSC ROSAVA tyres	Similar tyres of other manufacturers
210/80R16 Ф-325 (96A8)	6.00-16; 6.50R16 (R-1) 210/80R16; 7.50L16
31x15.5R16 Ф-225M (105A6)	31x15.5-15; 300/65R16
9.5R20 Ф-217 (102A6)	8.3-20; 9.00-20 ; 9.5-20; 9.5R20; 210/95R20; 250/85R20;
280/85R20 TR-105 (12A8/B;120A8/B)	280/85R20; 11.2R20; 11.2-20
13.6R20 Ф-331 (120A8)	13.6-20; 13.6R20; 380/70R20; 440/65R20
21.3R24 UTP14 (140A8/150B)	540/70R24; 500/85R24; 21.3R24; 21.3-24
23.1R26 Ф-37 (148A8,153A8)	620/75R26; 650/70R26; 750/65R26; 23.1R26; 23.1-26
28.1R26 TR-301 (158A8/B)	28.1R26; 750/70R26; 28.1-26
540/65R28 TR-102 (137,142,149A8/B)	16.9R28; 420/85R28; 480/70R28; 540/65R28
600/65R28 TR-103 (142,147,154A8/B)	540/75R28; 600/65R28
650/75R32 TR-07 (160,167,172A8)	24.5-32; 24.5R32; 650/75R32; 680/70R32
30.5R32 Ф-81, Ф-81M (162,165,167A6)	30.5L32; 30.5R32
800/65R32 CM-101 (167,172,178A8)	30.5LR32; 800/65R32; 30.5LR32
13.6R38 TR-07 (128A8)	13.6-38; 13.6R38; 400/75R38; 13.6-38; 13.6R38
15.5R38 TR-07, БЦФ-2А (134A8)	15.5-38; 15.5R38
16.9R38 TR-201 (141A8)	16.9R38; 420/85R38; 480/70R38; 540/65R38
650/65R38 TR-202 (154,157,163 A8/B)	20.8-38; 20.8R38; 520/85R38; 580/70R38; 650/65R38
710/70R38 TR-203 (166A8)	710/70R38
5.00-10 Ф-292 (51A6)	5.00-10
5.50-16 Ф-122	5.50-16
8.3-20 В-105А (102А6)	8.3-20; 210/95R20
11,2-20 БЦФ-35 (114А6)	11.2-20
18,4-24 Ф-148 (136,150,158А6)	18,4-24; 18,4R24
21.3-24 ИЯВ-79 (140,155,160А8)	-
30.5L32 Ф-179,Ф-136, БЦК-10 (162, 165, 167, 169, 172, 177А6)	30.5L32

### Tyres for steering and carrier wheels

PJSC ROSAVA tyres	Similar tyres of other manufacturers
7.50R16 TR-100 (98A8/B)	7.50-16
13.0/75R16 Ф-276 (130A6)	13.0/75-16; 13.0/75R16
9.00R20 БЦФ-311 (112A8)	9.00R20
4.50-10 ВФ-242 (66A6)	4.50-10
10/75-15.3 Ф-274, ИМ-301	10/75-15.3
5.50-16 Ф-288 (90,102,112A8)	5.50-16
6.50/88-16 С-1 (92, 97А6)	-
6.50-16 TR-101 (99A6)	6.50-16
7.50-16 Ф-249 (87, 97, 104A6)	7.50-16
9.00-16 Ф-277 (125,136A6)	9.00-16
9.00-16 Я-324А (125А6)	9.00-16; 10.00-16
12-16 Л-163БЦ (130A6)	12-16
7.50-20 В-103 (103A6)	7.50-20
9.00-20 UTP-223	9.00-20; 10.00-20

Tyres are the critical element of agricultural vehicles and a dominant factor of their reliability, operability and safety. A proper choice of agricultural tyres and observance of operational instructions help optimize the agricultural operation, extend tyre life and save money.

## SELECTION AND INSTALLATION

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1. Agricultural tyres should match the power rating and load of vehicles. Please remember that the load should not exceed the maximum allowed in technical specifications.
2. Tyres for agricultural vehicles should match the type of soil: the higher soil moisture content, the higher and steeper must be the lugs. If the soil is highly adhesive, please select the tyres so that the lug spacing is as much as possible.
3. To prevent soil compaction wheeled agricultural vehicles use wide-profile tyres or twin (triple) wheels. Twin wheels not only reduce soil compaction, but also allow field work to be done in early spring (even before soil drying), completely replace track machines, and improve traction. Installation of twin wheels significantly reduces the need for towing and fuel consumption.

## OPERATION

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1. Mounting/dismounting and repair of tyres should be performed only by qualified personnel using adequate tools and work procedures.
2. Inflation pressure has an effect on the tyre contact patch and, depending on soil conditions, affects its grip ability. Incorrect pressure setting leads to uneven tyre wear and, consequently, their premature failure. For example, tyre pressure below the recommended level results in the tyre carcass fracture, while the excessive pressure leads to accelerated wear of the central tread. Afterwards a wheel slip and increased fuel consumption develops. Recommended pressure, depending on the load, is usually given in manufacturer's operating instructions for agricultural vehicles.
3. Additional loading of the tractor wheels by injecting an aqueous solution into tyres.
  - It should be used only in case of insufficient ground grip in adverse conditions (light sandy, waterlogged soils, etc.). Tyres filled with liquid, adversely affect the tractor ride comfort at speed over 20 km/h. Carcass break is possible for these tyres in case of head-on crash accident.
  - It is strictly forbidden to fill more than 75% of tyre volume. Excessive amount of fluid can lead to destruction of tyres and tubes. When using an aqueous solution in the front and especially in the rear tyres, tyre rate, track depth and soil compaction are noticeably increased.
  - If it is still necessary to use the aqueous solution, we recommend filling tyres to the same level, no greater than 40%. As a last resort, filling fluid in the twin wheel tyres can be made but only in the external tyres and for not more than 40% of their volume.
4. Tyre service life depends on the type of operation, crops, applied agricultural technologies, and many other factors. Metal parts of agricultural machinery trashed in the fields, as well as stubble, especially corn, sunflower and soy bean left after harvesting contribute to the mechanical damage of tyres. The cutting height about 5-7 cm when harvesting produces tough stubble posing a danger of puncture. The higher cutting height allows vehicle stamping the stubble flat, thus reducing the potential damage to the tyres.

## STORAGE

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1. Store the tyres in a well ventilated dry place, protected from direct sunlight and rainfall.
2. Make sure that no lubricants, acids, alkalis which affect the rubber properties are kept in tyre storerooms, and tyres are clean and dry inside and out.
3. If the tyres are stored mounted on the rim, it is necessary to partially deflate the tyres.
4. Avoid storing tubeless tyres in a pile, piling is allowed for small tyres only (for max. 6 months).
5. Never store the tyres laid flat directly on the ground for a long time.



BaRo  
GmbH

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