



OTANI®

OFF THE ROAD TIRE CATALOG 2018





MU-800

MV-811

MV-911

RK-210

RK-214

US-43

UP-42

G-47

MILITARY SERVICE TIRES	RIM DIAMETER	TIRE SIZE	PR	PATTERN	TYPE	STANDARD RIM WIDTH	INFLATION PRESSURE		MAXIMUM LOAD	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
						inch	psi	kgf/cm ²	kg	mm	mm	mm
						16.5"	36x12.5-16.5 LT	8	MV-911	TL	9.75	50
	37x12.5-16.5 LT	8	MV-811	TL	9.75	50	3.52	1745	315	930	15	
20"	9.00-20	12	MU-800	TT	7.50	95	6.68	2360	260	1030	15	
	11.00-20	12	MU-800	TT	8.00	90	6.33	2685	298	1090	16	
		16	MU-800	TT	8.00	115	8.08	3265	301	1097	16	
21"	14.5-21	12	G-47	TL	11.00	84	5.91	3950	418	1230	20	

SKID STEER TIRES	RIM DIAMETER	TIRE SIZE	PR	PATTERN	TYPE	MAXIMUM SPEED	STANDARD RIM WIDTH	INFLATION PRESSURE		MAXIMUM LOAD	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
						km/h	inch	psi	kgf/cm ²	kg	mm	mm	mm
						16.5"	10-16.5 NHS	10	RK-210	TL	40	8.25	75
12	RK-210	TL	40	8.25	90			6.33	2375	265	805	30	
8	RK-214	TL	40	8.25	60			4.22	1880	258	777	18	
10	RK-214	TL	40	8.25	75			5.27	2135	265	779	18	
12-16.5 NHS	10	RK-214	TL	40	9.75		65	4.57	2540	312	821	19	
	12	RK-214	TL	40	9.75	80	5.62	2865	317	827	19		
17.5"	14-17.5 NHS	10	RK-214	TL	40	10.50	55	3.87	3105	345	898	19	
		12	RK-214	TL	40	10.50	65	4.57	3430	347	905	19	
		14	RK-214	TL	40	10.50	80	5.62	3875	355	909	19	
19.5"	15-19.5 NHS	12	RK-214	TL	40	12.25	60	4.22	4170	390	1012	19	
		14	RK-214	TL	40	12.25	70	4.92	4565	400	1020	19	

SOLID TIRES	RIM DIAMETER	TIRE SIZE	PATTERN	STANDARD RIM WIDTH	LOAD CAPACITY UP TO 25 km./h		SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
				inch	LOAD WHEEL/kg	LOAD STEER/kg	mm	mm	mm
				8"	5.00-8	US-43	3.00 D-8	1415	1090
9"	6.00-9	US-43	4.00 E-8	1885	1450	130	525	24	
10"	6.50-10	US-43	5.00 F-10	2340	1800	165	575	28	
12"	7.00-12	US-43	5.00 S-12	2920	2240	170	655	30	
15"	8.25-15	US-43	6.50-15	4745	3650	217	815	34	
	28 x 9 -15 (8.15-15)	US-43	7.00-15	3445	2650	207	695	32	
		UP-42	7.00-15	3445	2650	209	697	34	



C-11 C-12 C-202 G-41 G-44 G-46 G-48 G-49

COMPACTOR TIRES

RIM DIAMETER	TIRE SIZE	PR	PATTERN	TRA CODE	TYPE	MAXIMUM SPEED	STANDARD RIM WIDTH	INFLATION PRESSURE		MAXIMUM LOAD	SECTION WIDTH	OVERALL DIAMETER	TREAD WIDTH
						km/h	inch	psi	kgf/cm ²	kg	mm	mm	mm
15"	7.50-15	10	C-11	C1	TT	10	6.00	90	6.33	2359	220	796	217
		12	C-11	C1	TT	10	6.00	110	7.73	2658	227	798	217
		14	C-11	C1	TT	10	6.00	125	8.80	2858	230	799	217
		6	C-12	C1	TT	10	6.00	55	3.87	1769	218	795	192
16"	7.50-16	10	C-11	C1	TT	10	6.00	125	8.80	2370	221	816	216
20"	8.25-20	12	C-11	C1	TT	10	6.50	90	6.33	3650	240	975	235
		14	C-11	C1	TT	10	6.50	105	7.38	3840	244	977	235
	9.00-20	12	C-11	C1	TT	10	7.00	90	6.33	4060	265	1008	263
		14	C-11	C1	TT	10	7.00	105	7.38	4420	266	1010	263
	11.00-20	16	C-11	C1	TT	10	8.00	115	8.08	5445	296	1056	295
		18	C-11	C1	TT	10	8.00	120	8.44	5900	298	1059	295
14/70-20	12	C-11	C1	TT	10	11.00	100	7.03	4005	373	975	370	

RIM DIAMETER	TIRE SIZE	PR	PATTERN	TRA CODE	TYPE	MAXIMUM SPEED	STANDARD RIM WIDTH	INFLATION PRESSURE		MAXIMUM LOAD	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
						km/h	inch	psi	kgf/cm ²	kg	mm	mm	mm
26"	23.1-26	8	C-202	C2	TT/TL	10	20.00	16	1.12	2575	593	1492	18
	23.1-26	12	C-202	C2	TT/TL	10	20.00	24	1.69	3250	595	1498	18

GRADER TIRES

RIM DIAMETER	TIRE SIZE	PR	PATTERN	TRA CODE	TYPE	STANDARD RIM WIDTH	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
						inch	mm	mm	mm
16"	12.5/70-16	10	G-41	L2/G2	TT/TL	10.00	319	852	22
18"	10.5/80-18	10/12	G-44	I3	TT/TL	9.00	268	917	21
	12.5/80-18	10/12/14	G-46	I3	TT/TL	9.00	314	1015	24
	15.5/60-18	10	G-41	L2	TT/TL	13.00	408	942	22
20"	8.25-20	6/8/10	G-44	G2	TT/TL	6.50	230	970	21
	17.5/65-20	10	G-41	L2/G2	TT/TL	14.00	450	1098	27
24"	13.00-24TG	12/14/16	G-46	G2	TT/TL	8.00	336	1267	25
	14.00-24	12/14/16	G-41	L2/G2	TT/TL	8.00	376	1336	26
	14.00-24TG	12/14/16	G-46	G2	TT/TL	8.00	376	1336	25
25"	15.5-25	12/16	G-44	L2/G2	TT/TL	12.00	392	1274	24
	17.5-25	12/16	G-44	L2/G2	TT/TL	14.00	442	1349	30
	20.5-25	12/16	G-44	L3	TT/TL	17.00	526	1499	34
	23.5-25	12/16	G-44	L3	TT/TL	19.50	627	1600	34
26"	18.4-26	12	G-44	L2/G2	TT/TL	16.00	454	1439	25
28"	16.9-28	14	G-49	L2/G2	TT/TL	15.00	432	1420	30



U-501 U-502 R-53 R-55 R-56 E-50 E-51 E-52 L-05

RIM DIAMETER	TIRE SIZE	PR	PATTERN	TYPE	MAXIMUM SPEED	STANDARD RIM WIDTH	INFLATION PRESSURE		MAXIMUM LOAD	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
					km/h	inch	psi	kgf/cm ²	kg	mm	mm	mm
22.5"	500/60-22.5	16	G-48	TL	40	16.00	64	4.50	4125	500	1492	18
	600/50-22.5	16	G-48	TL	40	20.00	52	3.66	4000	600	1160	19
	700/40-22.5	16	G-48	TL	40	24.00	52	3.66	4250	700	1160	20
	710/40-22.5	16	G-48	TL	40	20.00	52	3.66	4375	710	1160	20

RIM DIAMETER	TIRE SIZE	PR	PATTERN	TRA CODE	TYPE	STANDARD RIM WIDTH	SECTION WIDTH	OVERALL DIAMETER	TREAD DEPTH
						inch	mm	mm	mm
24"	12.00-24	18	U-501	E 3	TT	8.50	314	1270	34
		18	U-502	E 3	TT	8.50	318	1270	37
	14.00-24	24/28	U-501	E 4	TT/TL	10.00	385	1407	50
		20/24/28	R-55	E 3	TT/TL	10.00	374	1350	31
16.00-24	16	R-55	E 3	TT/TL	11.25	455	1470	36	
25"	14.00-25	28	U-501	E 4	TT/TL	10.00	385	1407	50
		28	R-55	E 3	TT/TL	10.00	374	1350	31
	15.5-25	12/16	R-55	L 3	TT/TL	12.00	389	1292	28
	16.00-25	24/28	R-55	E 3	TT/TL	11.25	448	1468	36
	17.5-25	12/16	R-55	L 3	TT/TL	14.00	435	1347	32
	18.00-25	32/36/40	R-55	E 3	TT/TL	13.00	535	1604	41
		40	E-50	E 4	TL	13.00	525	1685	66
		40	E-52	IND-5	TL	13.00	491	1673	80
	20.5-25	16/20	R-56	L 3	TT/TL	17.00	536	1496	30
	23.5-25	16/20	R-56	L 3	TT/TL	19.50	606	1610	30
26.5-25	24/28	R-55	L 3	TT/TL	22.00	680	1766	48	
29.5-25	28/34/40	R-56	L 3	TL	25.00/3.5	775	1853	49	
	28/32/34	R-53	E 3	TT/TL	25.00	824	1852	44	
29"	29.5-29	28/34	R-56	L 3	TL	25.00/3.5	778	1979	49
33"	18.00-33	40	E-50	E 4	TL	13.00	538	1860	66
		32/36	R-55	E 3	TT/TL	13.00	530	1825	41
35"	21.00-35	36	E-51	E 4	TL	15.00/3.0	561	2050	67
45"	45/65-45	58	L-05	L 5	TL	36.00/4.5	1146	2735	120
49"	24.00-49	42/48	E-51	E 4	TL	17.00/3.5	660	2533	59
	27.00-49	48	E-51	E 4	TL	19.5/4.0	746	2654	70

Earthmover Service
50km/h (30 mph) Maximum Speed

TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)											
	kPa	325	375	475	500	525	550	575	600	625	650	795
	psi	47	54	69	73	76	80	83	87	91	94	115
12.00-24	kg											4250(18)
	lbs											9400(18)
14.00-24	kg			4625(20)	4750	4875	5000	5150(24)			5600(28)	
	lbs			10200(20)	10500	10700	11000	11400(24)			12300(28)	
*14.00-25	kg			4625(20)				5150(24)			5600(28)	6150(36)
	lbs			10200(20)				11400(24)			12300(28)	13600(36)
16.00-24	kg	4875(16)	5300(20)	6000(24)								
	lbs	10700(16)	12300(20)	13200(24)								
16.00-25	kg			6000(24)	6300		6500	6700(28)			7250(32)	
	lbs			13200(24)	13900		14300	14800(28)			16000(32)	
**18.00-25	kg							8750(32)				
	lbs							19300(32)				
18.00-33	kg							10300(32)			10900(36)	
	lbs							22700(32)			24000(36)	
21.00-35	kg						12850(36)	13200	13600	14000(40)		
	lbs						28300(36)	29100	30000	30900(40)		
24.00-49	kg							20600(42)			21800(48)	
	lbs							45400(42)			48100(48)	
27.00-49	kg				23000(42)	23600	24300	25000(48)				
	lbs				50700(42)	52000	53600	55100(48)				

** 40 Ply Rating / 11800 kg @ 750 kPa (26020 lbs. @ 109 psi)
 Note: Figures in parentheses denote ply rating for which bold face loads and inflations are maximum.

Grader Service
40 km/h (25 mph) Maximum Speed

TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)											
	kPa	150	175	200	225	250	260	275	300	325	375	450
	psi	22	25	29	33	36	38	40	44	47	54	58
12.5/70-16	kg						1650(8)		1850(10)			
	lbs						3640(8)		4080(10)			
10.5/80-18	kg										1742(10)	1900(12)
	lbs										3840(10)	4190(12)
12.5/80-18	kg									2136(10)	2650(12)	2850(14)
	lbs									47010(10)	5840(12)	6285(14)
15.5/60-18	kg						2430(10)					
	lbs						5360(10)					
8.25-20	kg		925(6)						1180(10)			
	lbs		2030(6)						2600(10)			
17.5/65-20	kg						3250(10)					
	lbs						7170(10)					
13.00-24 TG	kg							2725(12)	2900	3075(16)		
	lbs							6000(12)	6400	6800(16)		
14.00-24 TG	kg					3075(12)		3250	3450(14)	3550	3650(16)	
	lbs					6800(12)		7150	7600(14)	7850	8050(16)	
15.5-25	kg			2900(12)		3150		3350(16)				
	lbs			6400(12)		6950		7400(16)				
*17.5-25	kg			2900(12)		3150		3350(16)				
	lbs			6400(12)		6950		7400(16)				
*20.5-25	kg		3550(12)		4000(16)							
	lbs		7850(12)		8800(16)							
*23.5-25	kg	4000(12)	4375	4750(16)	5150	5450(20)						
	lbs	8800(12)	9650	10500(16)	11400	12000(20)						
18.4-26	kg				2650(12)							
	lbs				5845(12)							
16.9-28	kg					3450(12)			3875(14)			
	lbs					7610(12)			8545(14)			

*For slope and ditching service, inflation pressures should be increased by 100kPa (15psi) with no increase in load rating.
 For extreme conditions, kindly consult an Otani Representative for additional recommended operating requirements.
 Note: Figures in parentheses denote ply rating for which bold face loads and inflations are maximum.

For tire load limits at various speeds with no increase in inflation pressure :

MAXIMUM SPEED	% CHANGE TO LOADS IN ABOVE TABLE
40 km/h (25 mph)	No Change
50 km/h (30 mph)	-9%
60 km/h (35 mph)	-18%
65 km/h (40 mph)	-27%

Earthmover Service
50km/h (30 mph) Maximum Speed

TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)									TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)								
	kPa	225	250	275	300	325	350	375	400		kPa	225	250	275	300	325	350	375	400
	psi	33	36	40	44	47	51	54	58	psi	33	36	40	44	47	51	54	58	
15.5-25	kg		3250(12)			3785(16)				23.5-25	kg	6150(16)	6500	6900	7300(20)	7750	8000(24)		
	lbs		7150(12)			8345(16)					lbs	13600(16)	14300	15200	16100(20)	17100	17600(24)		
17.5-25	kg				4250(16)	4500	4625	4875	5000(20)	26.5-25	kg						9250(24)	9500	10000(28)
	lbs				9350(16)	9900	10200	10700	11000(20)		lbs						20400(24)	20900	22000(28)
20.5-25	kg			5450(16)	5800	6000(20)				29.5-25	kg					11500(28)		12500(32)	
	lbs			12000(16)	12800	13200(20)					lbs					25400(28)		27600(32)	
										29.5-29	kg					12150(28)	12850	13200	14000(34)
											lbs					26800(28)	28300	29100	30900(34)

Note: Figures in parentheses denote ply rating for which bold face loads and inflations are maximum.

Loader and Dozer Service
10km/h (5 mph) Maximum Speed

TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)											
	kPa	300	350	375	400	425	450	475	525	550	575	675
	psi	44	51	54	58	62	65	69	76	80	83	98
15.5-25	kg				5600(12)			6100(16)				
	lbs				12300(12)			13450(16)				
17.5-25	kg							7300(16)	7750	8000	8250(20)	
	lbs							16100(16)	17100	17600	18200(20)	
20.5-25	kg		8250(16)	8500	8750	9250	9500(20)					
	lbs		18200(16)	18700	19300	20400	20900(20)					
23.5-25	kg	9500(16)	10600	10900(20)	11200	11800	12150	12500(24)				
	lbs	20900(16)	23400	24000(20)	24700	26000	26800	26700(24)				
26.5-25	kg				14000(24)	14500	15000	15500(28)	16500	17000(32)		
	lbs				30900(24)	32000	33100	34200(28)	36480	37500(32)		
*29.5-25	kg					17500(28)	18500	19000	20000(34)			
	lbs					38600(28)	40800	41900	44100(34)			
29.5-29	kg					19000(28)	19500	20000	21200(34)			
	lbs					41900(28)	43000	44100	46700(34)			
45/65-45	kg											50000(58)
	lbs											110000(58)

*36 Ply Rating /18600 kg @ 630 kPa (41000 lbs.@ 92 psi)

Note: Figures in parentheses denote ply rating for which bold face loads and inflations are maximum.

Loader and Dozer Service 10 km/h (5 mph) Maximum Speed
Distance Up to 76 m (250ft)

TIRE SIZE Designation	Tire Load Limits at Various Cold Inflation Pressures (100kPa=1bar)									
	kPa	425	550	650	675	700	725	750	850	1000
	psi	62	80	94	98	102	105	109	124	130
14.00-24 (14.00-25)	kg	6300(12)	7300(16)			8500(20)			9550(24)	10000(28)
	lbs	13900(12)	16100(16)			18700(20)			21000(24)	22050(28)
*16.00-25	kg			10600(24)	10900		11200	11500(28)		
	lbs			23400(24)	24000		24700	25400(28)		
**18.00-25	kg							15000(32)		
	lbs							33100(32)		
***18.00-33	kg								16000(36)	
	lbs								35300(36)	

*36 Ply Rating /12500 kg @ 650 kPa (27000 lbs.@ 94 psi)

**36 Ply Rating /16000 kg @ 850 kPa (35300 lbs.@ 123 psi),40 Ply Rating /17000 kg @ 950 kPa (37500 lbs.@138 psi)

**IND-5 40 Ply Rating / 21200 @1035 KPa (46800 lbs. @ 150 psi)

***40 Ply Rating /20000 kg @ 950 kPa (44100 lbs.@ 138 psi)

Note: Figures in parentheses denote ply rating for which bold face loads and inflations are maximum.

Note: For load limits at various speeds:

MAXIMUM SPEED	% LOAD CHANGE FROM ABOVE 10 KM/H (5 MPH) TABLE
Stationary	+60%
Creep	+30%
4 km/h (2 1/2 mph)	+15%
10 km/h (5 mph)	No Change
15 km/h (10 mph)	-13%
25 km/h (15 mph)	-20%