

Nokian TYRES for FORESTRY USE

NOKIAN FORESTRY TYRE CATEGORIES

1.) TYRES for FORESTRY MACHINERY

- STEEL FORTIFIED
- **SPECIALLY DESIGNED for FORESTRY MACHINERY USE**

2.) SPECIAL TYRES for FORESTRY and AGRICULTURE

- NOT STEEL FORTIFIED
- LOWER PLY RATINGS
- **for SMALLER MACHINES and FORESTRY TRAILERS**

3.) FORESTRY TYRES for AGRICULTURAL TRACTORS in FORESTRY USE

- **SPECIAL CONSTRUCTION and MATERIALS for
FORESTRY USE**

NOKIAN FORESTRY TYRE CATEGORIES

1.) TYRES for FORESTRY MACHINERY

- **TYRES for CTL-METHOD (for FORWARDERS & HARVESTERS)**
- **SKIDDER TYRES**

2.) SPECIAL TYRES for FORESTRY and AGRICULTURE

- **TYRES for FORESTRY TRAILERS**
- **TYRES for SMALLER FORESTRY MACHINERY**

3.) FORESTRY TYRES for AGRICULTURAL TRACTORS for FORESTRY USE

- **NOKIAN AS/FS/TR FOREST (CROSS PLY)**
- **NOKIAN TR MULTIPLUS (RADIAL)**

Forestry Tyre Patterns

Cut-To-Length System

Forest King tyre family



F



E



ELS L-2



TRS LS-2



TRS L-2

Forestry Tyre Patterns

Tree- **L**ength System

Forest King



TRS LS-2

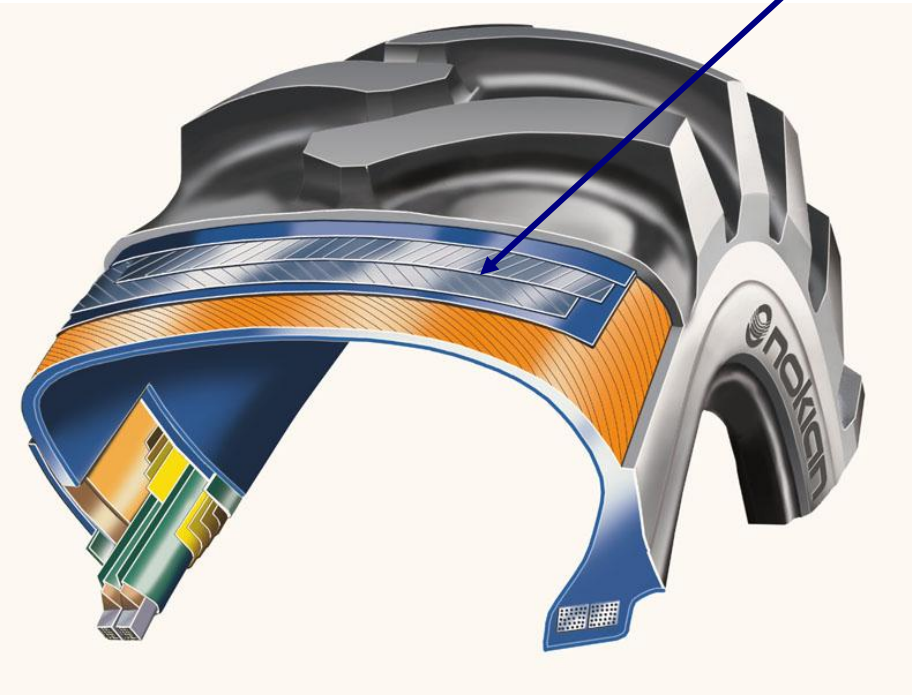
Nothing Exceeds Nokian



- **Strong steel breaker construction**
- **Special CCR tread compound**
- **Heavy duty nylon cord carcass**
- **Reinforced sidewall construction**
- **Rim bead protector**
- **Over 30 year's experience**

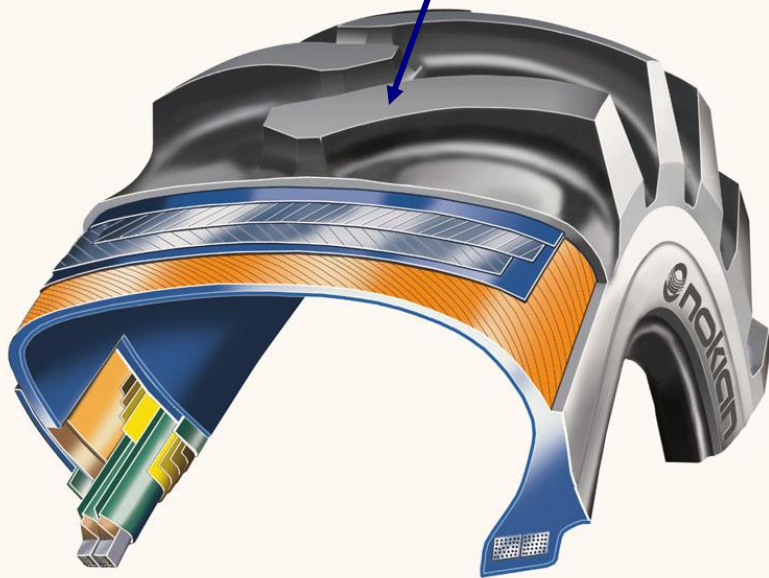
STEEL BREAKER CONSTRUCTION

**Superior impact and
puncture resistance with
shoulder to shoulder
heavy duty gauge breakers**



SPECIAL TREAD COMPOUND

**Tear resistant, wear resistant
special rubber compound
provides maximum tire life
CCR = Cut and Crack Resistant
(marked on tyre sidewall of
skidder sizes only
fr. January 2001)**



Cut-To- Length System



1.) TYRES for FORESTRY MACHINERY

Small	500/60-22.5	16	ELS	SF
	600/50-22.5	16	ELS L-2	SF
	600/50-22.5	16	TRS	SF
	700/45-22.5	16	ELS L-2	SF
	700/45-22.5	16	TRS L-2	SF
	700/45-22.5	16	E	SF
Medium	600/55-26.5	16, 20	ELS L-2	SF
	600/55-26.5	16	TRS LS-2	SF
	600/55-26.5	16	E	SF
	700/50-26.5	16, 20	ELS L-2	SF
	700/50-26.5	16	TRS LS-2	SF
	700/50-26.5	16	E	SF
	710/45-26.5	20	F	SF
	800/40-26.5	20	F	SF
Big	650/65-26.5	20	ELS L-2	SF
	750/55-26.5	20	ELS L-2	SF
	750/55-26.5	20	TRS L-2	SF

1.) TYRES for FORESTRY MACHINERY (cont.)

”Front axle
tyres”

600/65-34	14	TRS L-2	SF
700/55-34	14	TRS L-2	SF
700/70-34	16	TRS	SF

”Oldtimers”

20.5-25	16	LS	SF
22/65-25	16	ELS	SF
25/65-25	20	LS	SF
23.1-26	16	TRS LS-2	SF
23.1-34	16	TRS	SF

Dimension	PR	LI & SS	Tread Pattern		Rim	Width mm	Diameter mm	Load capacity		Inflation pressure kPa
								30 KM H kg	10 KM H kg	
500/60-22.5	16	154 A8 / 161 A2	ELS	SF	16.00	503	1171	3000	3450	320
600/50-22.5	16		ELS L-2	SF	20.00	601	1171	3480	4000	320
600/50-22.5	16		TRS LS-2	SF	20.00	601	1150	3480	4000	320
700/45-22.5	16		ELS L-2	SF	24.00	700	1171	4010	4625	320
700/45-22.5	16		TRS LS-2	SF	24.00	700	1150	4010	4625	320
700/45-22.5	16		E	SF	24.00	700	1171	4010	4625	320
500/60-26.5	12	158 A8 / 166 A2	TRS L-2 H	SF	16.00	503	1273	3290	3750	320
600/55-26.5	16		ELS L-2	SF	20.00	601	1340	4550	5300	400
600/55-26.5	20		ELS L-2	SF	20.00	601	1340	5510	6300	500
600/55-26.5	16		TRS LS-2	SF	20.00	601	1340	4550	5300	400
600/55-26.5	16		E	SF	20.00	601	1340	4550	5300	400
650/65-26.5	12		ELS L-2 H	SF	20.00	650	1485	4550	5300	240
650/65-26.5	20	ELS L-2	SF	20.00	650	1485	7170	8250	500	
700/50-26.5	16	163 A8 / 170 A2	ELS L-2	SF	24.00	700	1340	5220	6000	400
700/50-26.5	20		ELS L-2	SF	24.00	700	1340	6420	7300	500
700/50-26.5	16		TRS LS-2	SF	24.00	700	1340	5220	6000	400
700/50-26.5	20		TRS LS-2	SF	24.00	700	1340	6420	7300	500
700/50-26.5	16		E	SF	24.00	700	1340	5220	6000	400
710/45-26.5	20		168 A8 / 175 A2	F	SF	24.00	710	1340	5990	6900
800/40-26.5	20	170 A8 / 175 A2	F	SF	28.00	800	1340	6420	7300	500
750/55-26.5	20	177 A8 / 184 A2	ELS L-2	SF	24.00	750	1485	7810	9000	500
750/55-26.5	20		TRS L-2	SF	24.00	750	1485	7810	9000	500
600/65-34	14		TRS L-2	SF	DW20A	601	1644	4410	5000	240
700/55-34	14	TRS L-2	SF	DW24A	700	1634	4820	5600	240	
700/70-34	16	TRS	SF	DW20A	700	1844	5990	6900	240	

SF=STEEL FORTIFIED

PLS NOTE: SUITABILITY FOR THE INTENDED USE TO BE CHECKED

-Load capacities at 40 kmh are applied to intermittent transit service

-Load capacities at 10 kmh are only suggestive and should not be used as main criterion for tyre selection

-Pls ask the relevant inflation pressure for certain tyre for certain machine

Forestry Tyres (Steel Fortified)



Machine size	F (Bogie tyre)	ELS L-2 (Bogie tyre)	E (Bogie tyre)	TRS LS-2 (Bogie tyre)	TRS L-2 (Single axle tyre)
SMALL		600/50-22.5 700/45-22.5	700/45-22.5	600/50-22.5 700/45-22.5	
MEDIUM SIZE	710/45-26.5 800/40-26.5	600/55-26.5 700/50-26.5	600/55-26.5 700/50-26.5	600/55-26.5 700/50-26.5	600/65-34 700/55-34
HEAVY		650/65-26.5 750/55-26.5		750/55-26.5	700/70-34

Valmet 921



Valmet 890

FORWARDERS

Tyre/Machine matching


F

(Bogie tyre)


ELS L-2

(Bogie tyre)


E

(Bogie tyre)


TRS LS-2

(Bogie tyre)


TRS L-2

(Single axle tyre)


TRS L-2

(Single axle tyre)

820		600/50-22.5		600/50-22.5		
830		700/45-22.5	700/45-22.5	700/45-22.5		
840*	710/45-26.5	*600/55-26.5	*600/55-26.5	*600/55-26.5	600/65-	
860.1	800/40-26.5	700/50-26.5	*700/50-26.5	700/50-26.5	34	
					700/55-	
890.1		650/65-26.5		750/55-26.5	34	700/70-34
		750/55-26.5				

HARVESTERS

Tyre/Machine matching

Cut-To- Length System



F



ELS L-2



E



TRS LS-2



TRS LS-2



TRS



TRS L-2

4-wheelers

901*					*23.1-26	600/65-34
911					*18.4-34	700/55-34

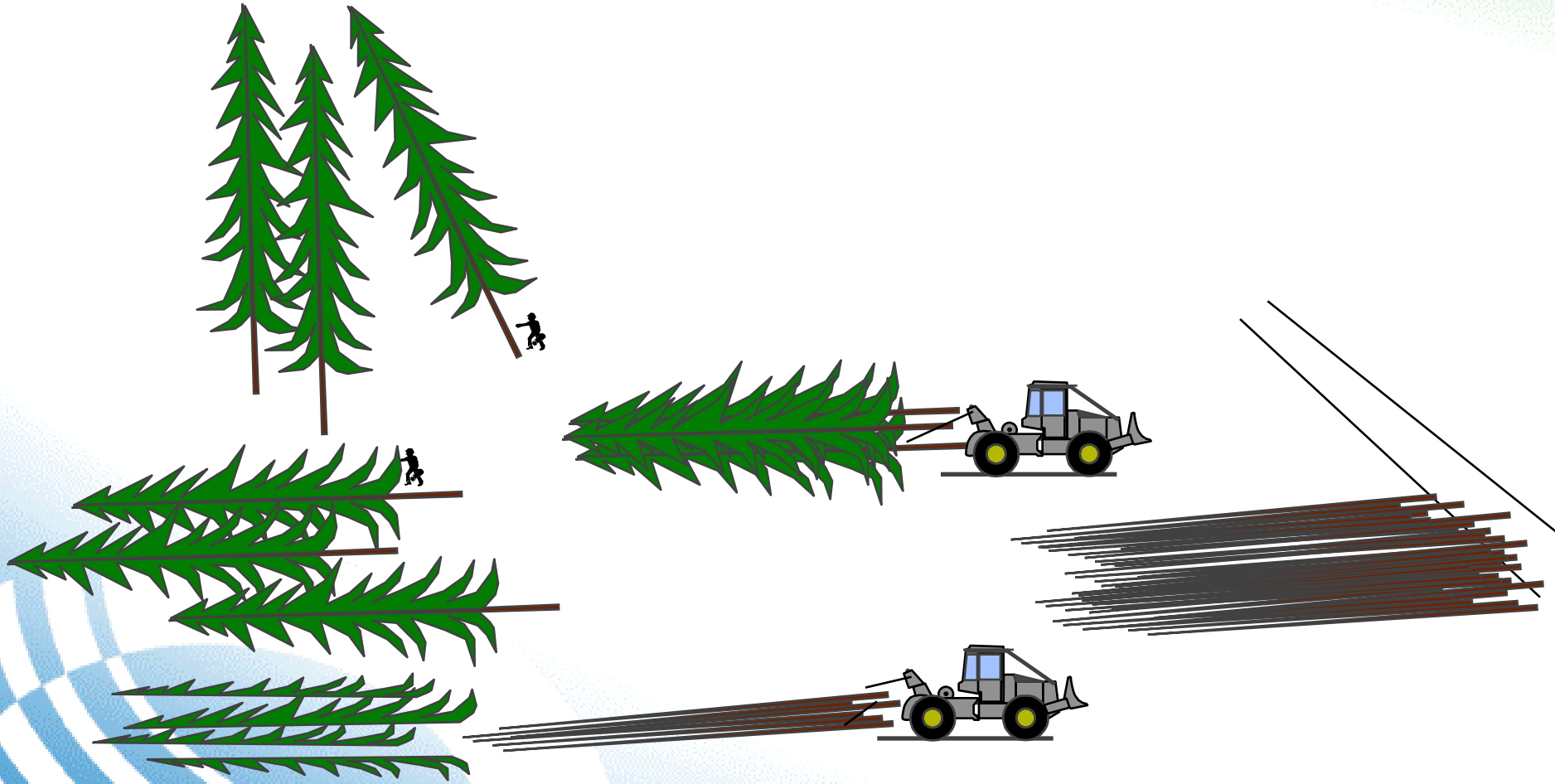
6-wheelers

901	710/45-26.5	600/55-26.5	600/55-26.5	600/55-26.5		600/65-34
911	800/40-26.5	700/50-26.5	700/50-26.5	700/50-26.5		700/55-34

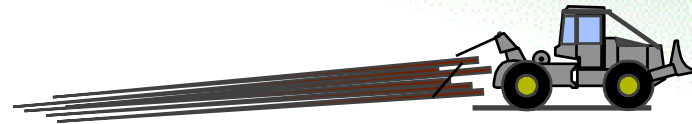
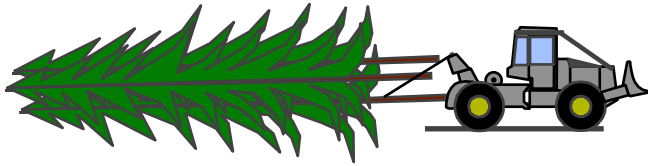
921.1	710/45-26.5	600/55-26.5		600/55-26.5		600/65-34
	800/40-26.5	700/50-26.5		700/50-26.5		700/55-34

921	650/65-26.5			750/55-26.5		700/70-34
	750/55-26.5					

Tree-Length System



Tree-Length System



18.4-26	12	FOREST KING TRS LS-2	SF
23.1-26	10	FOREST KING TRS LS-2	SF
23.1-26	16	FOREST KING TRS LS-2	SF
28L-26	16	FOREST KING TRS LS-2	SF
24.5-32	16	FOREST KING TRS LS-2	SF
24.5-32	20	FOREST KING TRS LS-2	SF
30.5L-32	16	FOREST KING TRS LS-2	SF
30.5L-32	20	FOREST KING TRS LS-2	SF
18.4-30	16	TRS LS-2	SF
18.4-34	14	TRS LS-2	SF

SF= STEEL FORTIFIED

Tyres for SKIDDERS

Dimension	PR	Tread Pattern	Rim	Width mm	Diameter New mm	30 Kmh		10 Kmh	
						Load capacity kg	Inflation pressure kPa	Load capacity kg	Inflation pressure kPa
18.4-26	12	FOREST KING TRSSF	DW16A	467	1445	3000	230	3900	260
23.1-26	10	FOREST KING TRSSF	DW20A	587	1632	3250	140	4225	170
23.1-26	16	FOREST KING TRSSF	DW20A	587	1632	4375	230	5690	260
28L-26	12	FOREST KING TRSSF	DW25A	714	1644	3785	140	4920	170
28L-26	16	FOREST KING TRSSF	DW25A	714	1644	4530	190	5900	220
18.4-30	16	TRS LS-2 SF	DW16A	467	1577	3740	290	4860	320
24.5-32	16	FOREST KING TRSSF	DH 21	622	1831	5100	220	6630	250
24.5-32	16	FOREST KING TRSSF	DH 21	622	1831	5810	270	7550	300
30.5L-32	16	FOREST KING TRSSF	DH 27	775	1857	5495	180	7145	210
30.5L-32	20	FOREST KING TRSSF	DH 27	775	1857	6430	220	8360	250
18.4-34	10	TRS LS-2 SF	DW16A	467	1679	2990	180	3890	210
18.4-34	14	TRS LS-2 SF	DW16A	467	1679	3730	260	4850	290

SF=STEEL FORTIFIED

PLS NOTE: SUITABILITY FOR THE INTENDED USE TO BE CHECKED

-Load capacities at 30 kmph are applied to intermittent transit service.

-LOAD CAPACITIES AT 10 KMPH ARE ONLY SUGGESTIVE AND SHOULD NOT BE USED AS MAIN CRITERION FOR TYRE SELECTION

-The values for 10 kmph can be used for comparing different tyre sizes.

Forestry Tyre Load Capacities

New Load Values

- 📁 Field of Application: Metric sizes
- 📁 Calculations based on ETRTO-Standards
- 📁 More in line with the Practice
- 📁 Will be applied e.g. with the Authorities

Forestry Tyre Load Capacities

 2 Categories:

 LT = “Low Torque” (e. g. Forwarders)

 HT = “High Torque” (e.g. Skidders)

 Basic Speed 40 km/h (A8)







 Air Pressure Steps 240/320/400/500kPa

 LI-marking

LS-2 177 A8
20 PR NYLON

HT 177 A2
LT 184 A2

Forestry Tyre Load Capacities

-  All new sizes marked acc. to the new system
-  All table values will be changed, (“old” metric sizes)
 -  - brochures
 -  - technical handbooks
 -  - net pages
-  Note: No effect on individual machine concerned air pressure recommendations



**Too low air pressure
will cause fatal
side wall damages!**

Worn studded links can turn 180° and damage tyre tread!





**Sharp joint link edges
will damage
the tyre side wall!**

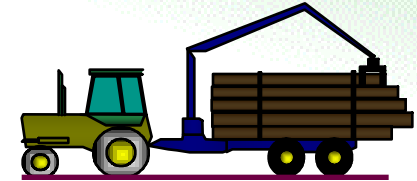
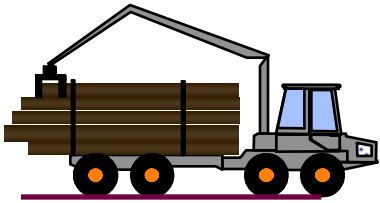


New rounded model

Damage caused by harvester delimiting knife!



2.) SPECIAL TYRES for FORESTRY and AGRICULTURE



ELS

400/60-15.5	14	ELS TL
500/60-15.5	12	ELS TL
400/55-22.5	14	ELS TL
550/45-22.5	12	ELS TL
500/60-22.5	12	ELS L-1 TL
600/50-22.5	12	ELS L-1 TL
600/50-22.5	12	TRS LS-2 TL
700/45-22.5	12	ELS L-1 TL
600/55-	12	TRS LS-2 TL
700/50-26.5	12	TRS LS-2 TL



TRS

nokian TR (FS, AS) FOREST

AS

FS



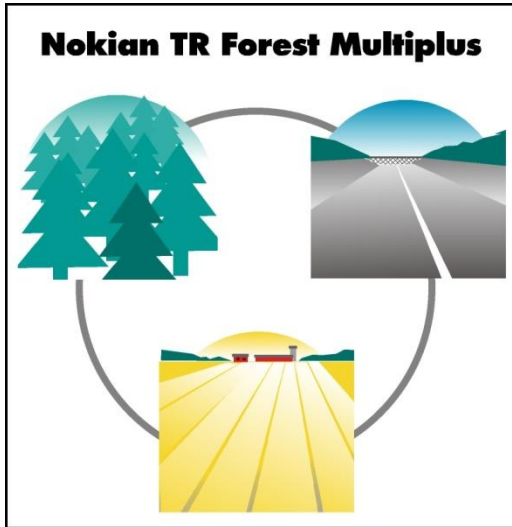
TR



11.2-24	10/ 119	A8	TR	FS	FOREST
12.4-24	12/ 128	A8	TR	FS	FOREST
13.6-24	10/ 128	A8	TR	FS	FOREST
14.9-24	14/ 138	A8	TR	FS	FOREST
13.6-28	10/ 130	A8	TR	FS	FOREST
14.9-28	14/ 140	A8	TR	AS	FOREST
16.9-28	14/ 145	A8	TR		FOREST
16.9-30	14/ 144	A8	TR	FS	FOREST
16.9-34	14/ 146	A8	TR	FS	FOREST
18.4-34	14/ 154	A8	TR	FS	FOREST
18.4-38	14/ 155	A8	TR		FOREST
20.8-38	14/ 159	A8	TR		FOREST



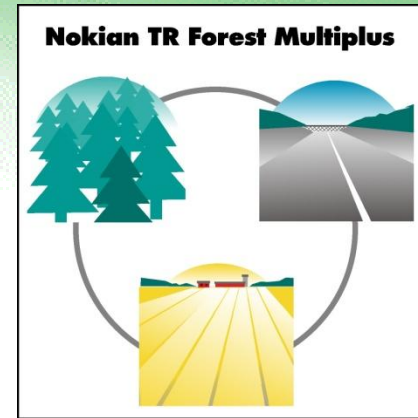
FORESTRY/CONTRACTOR TYRES for AGRICULTURAL TRACTORS/ BACKHOE LOADERS etc.



500/65R24	142A8 /139B	TR Forest Multiplus
600/65R34	157A8 /154B	TR Forest Multiplus
500/65R28	144A8 /141B	TR Forest Multiplus
600/65R38	159A8 /156B	TR Forest Multiplus
540/65R28	149A8 /146B	TR Forest Multiplus
650/65R38	164A8 /160B	TR Forest Multiplus
540/60R26.5	145A8 /142B	TR Forest Multiplus

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TR FOREST MULTIPLUS



Field of application: Agricultural and special limited size forestry/contractor machinery

Tread pattern and structure specially designed for forest/multiplus operations (Suits for contractor/agricultural work as well)

Tread rubber compound developed against tearing and wearing

Large footprint, low ground contact pressure

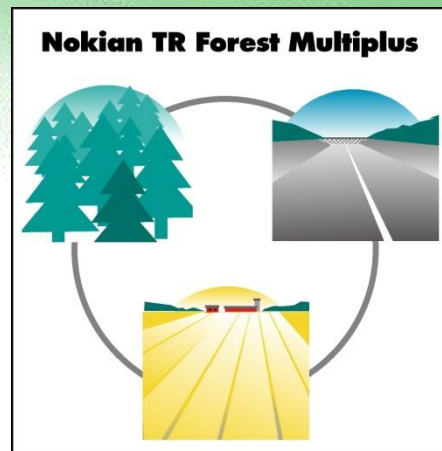
Excellent in transit drive as well, high mileage

Very good self cleaning properties due to radial construction and tread pattern design



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TR FOREST MULTIPLUS



DIMENSION	PATTERN	RIM	WIDTH	DIA	LI/SS	LOAD CAPACITY / kg			AIR PRESSURE*
						30KMH	40KMH	50KMH	
			mm	mm					kPa
500/ 65R24	TR FOREST	W15L	492	1234	142 A8 / 139 B	2840	2650	2430	240
540/ 65R26.5	TR FOREST	16.00	530	1321	145 A8 / 142 B	3100	2900	2650	240
500/ 65R28	TR FOREST	W15L	492	1345	144 A8 / 141 B	3000	2800	2575	240
540/ 65R28	TR FOREST	DW16	530	1413	149 A8 / 146 B	3480	3250	3000	240
600/ 65R34	TR FOREST	DW18L	591	1644	157 A8 / 154 B	4410	4125	3750	240
600/ 65R38	TR FOREST	DW18L	591	1745	159 A8 / 156 B	4680	4375	4000	240
650/ 65R38	TR FOREST	DW20A	645	1810	164 A8 / 160 B	5350	5000	4500	240

Max air pressure in use 320 kPa
w/o any increase in the load capacity

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TR FOREST MULTIPLUS

