

# **WINDFORCE**

## **TBR TIRES**

**ENJOY YOUR TRIPS WITH  
WINDFORCE TYRES**

**CATALOGUE 2018**





# Company Introduction

## **WINDFORCE TYRE CO., LIMITED**

Based on Shandong HaoHua tire manufacture, who located in ShouGuang Shandong, WINDFORCE TYRE CO., LIMITED is built as the sales company to develop the **WINDFORCE** brand tyres worldwide upon 100% exclusivity. We mainly specialize in designing and supplying all kinds of Radial tyres, including Passenger Car tyres, SUV tyres, Light Truck Tyres, Truck and Bus tyres etc.

Enjoying high popularity in both domestic and international markets, **WINDFORCE** is made as a high quality level brand from China. **WINDFORCE** brand owns big ranges of PCR, LTR, A/T, H/T, M/T, VAN and TBR tyres. All the patterns are designed according to the latest markets requirements by our smart R&D team. All the tyres are produced under the first class equipments and strict quality management system to ensure the stable quality.

With high quality, reasonable price and excellent service, we are able to be one of your best tyres suppliers and long term of business partners.

Thanks very much for your attention and time.



# PATTERN SUMMARY



## LONG HAUL



WD2000



WD2020



WD2062+



WD3080



WH1000



WH1020



WH1022



WH3060



## REGIONAL



WD2020



WD2068



WD2060



WD2048



WA1060



WA1068



WA1088



WA1062+



## ON & OFF



WA1060



WA1062+



WA1068



WA1066



WD2066



WT3030



WD2088



WD2068





## WT 3000

- ① Application: Trailer Wheel for regional use.
- ② Suitable for high and medium speed on good road surface with excellent anti-skid-side character and drainage performance.
- ③ Excellent loading capacity, Low rolling resistance, Low noise.



- Standard Wheel
- Permitted Wheel
- ✗ Prohibited Wheel



## WH1020

- ① Application: Steer Wheel for long distance, also can be used on Trailer Wheel.
- ② Suitable for high speed on good road surface application, with excellent durability, anti-side wear performance.
- ③ Longer mileage, Lower noise, Good stone-picking prevention.



- Standard Wheel
- Permitted Wheel
- ✗ Prohibited Wheel



## WD2020

- ① Application: Drive Wheel for medium mileage load series.
- ② Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- ③ Excellent load capability, Longer mileage, Super Durability.



- Standard Wheel
- Permitted Wheel
- ✗ Prohibited Wheel

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application	Application			dB
		MM	1/32"	MM	1/32"								
T3000R03	215/75R17.5 135/133J	18	12.0	15.0	6.00	TL	Trailer	Highway	C	D		72	
T3000R04	235/75R17.5 143/141J	18	12.5	15.8	6.75	TL	Trailer	Highway	C	D		72	
T3000R06	225/70R19.5 128/126M	14	12.5	15.5	6.75	TL	Trailer	Highway	C	D		72	
T3000R07	245/70R19.5 136/134M	16	12.5	15.8	7.50	TL	Trailer	Highway	C	D		72	
T3000R08	265/70R19.5 143/141J	18	12.5	15.8	7.50	TL	Trailer	Highway	C	D		72	
T3000R09	285/70R19.5 150/148J	18	13.0	16.0	8.25	TL	Trailer	Highway	C	D		72	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application	Application			dB
		MM	1/32"	MM	1/32"								
H1020R26	* 8.5R17.5 121/120L	16	12.0	15.0	6.00	TL	All	Highway	-	-	-	-	
H1020R27	* 9.5R17.5 131/129L	16	12.5	15.8	6.75	TL	All	Highway	-	-	-	-	
H1020R02	215/75R17.5 127/124M	16	12.0	15.0	6.00	TL	All	Highway	C	D		72	
H1020R03	* 225/75R17.5 129/127M	16	12.0	15.0	6.75	TL	All	Highway	C	D		72	
H1020R04	235/75R17.5 132/130M	16	12.5	15.8	6.75	TL	All	Highway	C	D		72	
H1020R05	* 245/70R17.5 136/134M	16	12.5	15.8	7.50	TL	All	Highway	C	D		72	
H1020R06	225/70R19.5 128/126M	14	12.5	15.5	6.75	TL	All	Highway	C	D		72	
H1020R07	245/70R19.5 136/134M	16	12.5	15.8	7.50	TL	All	Highway	C	D		72	
H1020R08	265/70R19.5 140/138M	16	12.5	15.8	7.50	TL	All	Highway	C	D		72	
H1020R09	285/70R19.5 146/144M	16	13.0	16.0	8.25	TL	All	Highway	C	D		72	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application	Application			dB
		MM	1/32"	MM	1/32"								
D2020R26	* 8.5R17.5 121/120L	16	15.0	19.0	6.00	TL	Drive	Highway	-	-	-	-	
D2020R27	* 9.5R17.5 131/129L	16	15.0	19.0	6.75	TL	Drive	Highway	-	-	-	-	
D2020R02	215/75R17.5 127/124M	16	15.0	19.0	6.00	TL	Drive	Highway	D	D		74	
D2020R03	* 225/75R17.5 129/127M	16	15.0	19.0	6.75	TL	Drive	Highway	D	D		74	
D2020R04	235/75R17.5 132/130M	16	15.5	19.6	6.75	TL	Drive	Highway	D	D		74	
D2020R05	* 245/70R17.5 136/134M	16	15.5	19.6	7.50	TL	Drive	Highway	D	D		74	
D2020R06	225/70R19.5 128/126M	14	15.5	19.6	6.75	TL	Drive	Highway	D	D		74	
D2020R07	245/70R19.5 136/134M	16	15.5	19.6	7.50	TL	Drive	Highway	D	D		74	
D2020R08	265/70R19.5 140/138M	16	15.5	19.6	7.50	TL	Drive	Highway	D	D		74	
D2020T09	285/70R19.5 146/144M	16	16.0	20.0	8.25	TL	Drive	Highway	D	D		74	

\* New Developing Sizes

The labelling information is subject to change without notice.



## WT 3000

- ① Application: Trailer Wheel for regional use.
- ② Suitable for high and medium speed on good road surface with excellent anti-skid-side character and drainage performance.
- ③ Excellent loading capacity, Low rolling resistance, Low noise.



- Standard Wheel
- Permitted Wheel
- ✘ Prohibited Wheel



## WH1020

- ① Application: Steer Wheel for long distance, also can be used on Trailer Wheel.
- ② Suitable for high speed on good road surface application, with excellent durability, anti-side wear performance.
- ③ Longer mileage, Lower noise, Good stone-picking prevention.



- Standard Wheel
- Permitted Wheel
- ✘ Prohibited Wheel









## WD2020

- ① Application: Drive Wheel for medium mileage load series.
- ② Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- ③ Excellent load capability, Longer mileage, Super Durability.















- Standard Wheel
- Permitted Wheel
- ✘ Prohibited Wheel











## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
T3000R10	275/70R22.5 148/145M	16	15.0	19.0	8.25	TL	Trailer	Highway	C	D		72	
T3000R02	385/55R22.5 160L	20	15.5	19.6	12.25	TL	Trailer	Highway	C	D		73	
T3000R03	385/65R22.5 160L	20	15.5	19.6	11.75	TL	Trailer	Highway	C	D		73	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
H1020R25	11R22.5 148/145M	16	14.5	18.4	8.25	TL	All	Highway	C	D		72	
H1020R14	295/75R22.5 146/143M	16	15.5	19.6	9.00	TL	All	Highway	C	D		72	
H1020R22	11R24.5 149/146M	16	14.5	18.4	8.25	TL	All	Highway	-	-	-	-	
H1020R24	285/75R24.5 147/144M	16	15.5	19.6	8.25	TL	All	Highway	-	-	-	-	
H1020R10	275/70R22.5 148/145M	16	14.5	18.4	8.25	TL	All	Highway	C	D		72	
H1020R15	295/80R22.5 152/149M	18	15.5	19.6	9.00	TL	All	Highway	C	D		73	
H1020R17	315/70R22.5 154/150M	20	15.0	19.0	9.00	TL	All	Highway	C	D		73	
H1020R18	315/80R22.5 156/150M	20	15.5	19.6	9.00	TL	All	Highway	C	D		73	
H1020R16	12R22.5 152/149M	18	15.5	19.6	9.00	TL	All	Highway	C	D		73	
H1020R19	385/55R22.5 160L	20	15.5	19.6	12.25	TL	All	Highway	C	D		73	
H1020R20	385/65R22.5 160L	20	15.5	19.6	11.75	TL	All	Highway	C	D		73	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2020R12	11R22.5 148/145M	16	20.0	25.2	8.25	TL	Drive	Highway	D	D		74	
D2020R14	295/75R22.5 146/143M	16	20.0	25.2	9.00	TL	Drive	Highway	D	D		75	
D2020R22	* 11R24.5 149/146M	16	20.0	25.2	8.25	TL	Drive	Highway	-	-	-	-	
D2020R23	* 285/75R24.5 147/144M	16	20.0	25.2	8.25	TL	Drive	Highway	-	-	-	-	
D2020R10	275/70R22.5 148/145M	16	18.0	22.8	8.25	TL	Drive	Highway	D	D		74	
D2020R15	295/80R22.5 152/149M	18	20.0	25.2	9.00	TL	Drive	Highway	D	D		75	
D2020R17	315/70R22.5 154/150M	20	20.0	25.2	9.00	TL	Drive	Highway	D	D		75	
D2020R18	315/80R22.5 156/150M	20	20.0	25.2	9.00	TL	Drive	Highway	D	D		75	
D2020R16	12R22.5 152/149M	18	20.0	25.2	9.00	TL	Drive	Highway	D	D		75	

\* New Developing Sizes

The labelling information is subject to change without notice.








## WA1060

- ① Application: All Position Wheels for On/Off use.
- ② Mixed pattern, Suitable for mixed road surface and relatively poor road condition with sideslip resistance.
- ③ Excellent crack & tear resistance, High speed, Long mileage.






-  Standard Wheel
-  Permitted Wheel
-  Prohibited Wheel



## WD2060

- ① Application: Drive Wheel for On/Off Road use.
- ② Suitable for mix road use and relatively poor road condition with excellent traction character.
- ③ Excellent load capability, Longer mileage, Good anti-wearing.






-  Standard Wheel
-  Permitted Wheel
-  Prohibited Wheel



## WD2088

- ① Application: Drive Wheel for short distance on/off road use.
- ② Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- ③ Longer Mileage, Strong Structure, Good anti-wear performance.



-  Standard Wheel
-  Permitted Wheel
-  Prohibited Wheel



## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				
			MM	1/32"					dB			
A1060R01	11R22.5 146/143M	16	14.5	184	8.25	TL	ALL	On/Off	-	-	-	-
A1060R02	11R24.5 149/146M	16	14.5	184	8.25	TL	ALL	On/Off	-	-	-	-
A1060R11	295/80R22.5 152/149M	18	15.5	19.6	9.00	TL	ALL	On/Off	C	D		74
A1060R04	315/80R22.5 156/150M	20	15.0	19.0	9.00	TL	ALL	On/Off	C	D		74
A1060R03	12R22.5 152/149M	18	15.5	19.6	9.00	TL	AL	On/Off	C	D		74
A1060R05	13R22.5 156/150L	20	15.5	19.6	9.75	TL	ALL	On/Off	C	D		74

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				
			MM	1/32"					dB			
D2060R01	11R22.5 146/143K	16	20.0	25.2	6.00	TL	Drive	On/Off	-	-	-	-
D2060R06	11R24.5 149/146K	16	20.0	25.2	6.75	TL	Drive	On/Off	-	-	-	-
D2060R02	295/80R22.5 152/149K	18	20.0	25.2	6.00	TL	Drive	On/Off	C	D		75
D2060R04	315/80R22.5 156/150K	20	20.0	25.2	6.75	TL	Drive	On/Off	C	D		75
D2060R03	12R22.5 152/149K	18	20.0	25.2	6.75	TL	Drive	On/Off	C	D		75
D2060R05	13R22.5 156/150K	20	20.0	25.2	7.50	TL	Drive	On/Off	C	D		75

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				
			MM	1/32"					dB			
D208803	11R22.5 146/143K	16	22.0	27.8	8.25	WD2020	Drive	Off	-	-	-	-
D208809	* 11R24.5 149/146G	16	22.0	27.8	8.25	WD2020	Drive	Off	-	-	-	-
D208804	295/80R22.5 152/149K	18	22.0	27.8	9.00	WD2020	Drive	Off	-	-	-	-
D208806	* 315/80R22.5 156/150K	20	22.0	27.8	9.00	WD2020	Drive	Off	-	-	-	-
D208805	12R22.5 152/149G	18	22.0	27.8	9.00	WD2020	Drive	Off	-	-	-	-
D208807	13R22.5 156/150G	20	22.0	27.8	9.75	WD2020	Drive	Off	-	-	-	-

\* New Developing Sizes

The labelling information is subject to change without notice.



## ***WH1000***

- ❶ Application: Trailer Wheel for long distance, also can be used on Steer Wheel.
- ❷ Suitable for high speed on good road surface application, with excellent anti-wet property and side-slip resistance.
- ❸ Longer mileage, Lower noise, Lower rolling resistance.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel






## ***WD2000***

- ❶ Application: Drive Wheel for medium mileage loading series.
- ❷ Close Shoulder designs, the block pattern offer excellent drive force and good braking performance on paved road condition.
- ❸ Excellent load capability, Longer mileage, Super Durability.






- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
H1000R01	11R22.5 146/143M	16	13.0	16.4	8.25	TL	Trailer	Highway	-	-	-	-
H1000R06	295/75R22.5 146/143M	16	13.0	16.4	9.00	TL	Trailer	Highway	-	-	-	-
H1000R04	11R24.5 149/146M	16	11.0	14.0	8.25	TL	Trailer	Highway	-	-	-	-
H1000R11	285/75R24.5 147/144M	16	11.0	14.0	8.25	TL	Trailer	Highway	-	-	-	-
H1000R07	295/80R22.5 152/149M	18	14.5	18.4	9.00	TL	Trailer	Highway	-	-	-	-
H1000R09	315/80R22.5 156/150M	20	14.5	18.4	9.00	TL	Trailer	Highway	-	-	-	-
H1000R08	12R22.5 152/149M	18	14.5	18.4	9.00	TL	Trailer	Highway	-	-	-	-
H1000R12	* 255/70R22.5 140/137M	16	13.0	16.4	7.50	TL	Trailer	Highway	-	-	-	-

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
D2000R02	11R22.5 146/143K	16	20.0	25.2	8.25	TL	Drive	Highway	-	-	-	-
D2000R06	295/75R22.5 146/143K	16	20.0	25.2	9.00	TL	Drive	Highway	-	-	-	-
D2000R04	11R24.5 149/146K	16	20.0	25.2	8.25	TL	Drive	Highway	-	-	-	-
D2000R08	285/75R24.5 147/144L	16	20.0	25.2	8.25	TL	Drive	Highway	-	-	-	-

\* New Developing Sizes

The labelling information is subject to change without notice.





## WH1022

- 1 Application: Steer Wheel for long distance, also can be used on Trailer Wheel.
- 2 Suitable for high speed on good road surface application, with excellent durability, anti-side wear performance.
- 3 Longer mileage, Lower noise, Good stone-picking prevention.



- Standard Wheel
- Permitted Wheel
- Prohibited Wheel



## WD2028

- 1 Application: Drive Wheel for short distance on/off road use.
- 2 Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- 3 Longer Mileage, Strong Structure, Good anti-wear performance.



- Standard Wheel
- Permitted Wheel
- Prohibited Wheel






## WD2048

- 1 Application: Drive Wheel for short distance on/off road use.
- 2 Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- 3 Longer Mileage, Strong Structure, Good anti-wear performance.






- Standard Wheel
- Permitted Wheel
- Prohibited Wheel




## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
H1022R01	315/80R22.5 156/150M	20	15.0	19.0	9.00	TL	ALL	Highway	-	-	-	-	
H1022R03	12R22.5 152/149L	18	15.0	19.0	9.00	TL	ALL	Highway	-	-	-	-	
H1022R02	9.5R17.5 143/141J	18	13.0	16.4	6.75	TL	ALL	Highway	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2028R01	315/80R22.5 156/150K	20	18.0	22.8	9.00	TL	Drive	On/Off	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2048R02	315/80R22.5 156/150K	20	20.0	25.2	9.00	TL	Drive	Highway	-	-	-	-	
D2048R01	12R22.5 152/149L	18	20.0	25.2	9.00	TL	Drive	Highway	-	-	-	-	

\* New Developing Sizes

The labelling information is subject to change without notice.



## ***WT3020***

- ① Application: Trailer Wheel for regional use.
- ② Suitable for high speed on paved road surface with excellent anti-skid-side character and durability performance.
- ③ Excellent loading capacity, Low rolling resistance, Low noise.



● Standard Wheel   ● Permitted Wheel   ✗ Prohibited Wheel



## ***WT3030***






- ① Application: Drive Wheel for On/Off Road use.
- ② Suitable for mix road use and relatively poor road condition with excellent traction character.
- ③ Excellent load capability, Longer mileage, Good anti-wearing.






● Standard Wheel   ● Permitted Wheel   ✗ Prohibited Wheel



## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
T3020R01	385/65R22.5 160L	20	15.5	19.6	11.75	TL	Trailer	Highway	-	-	-	-	
T3020R02	425/65R22.5 165K	20	15.5	19.6	13.00	TL	Trailer	Highway	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
T3030R01	* 385/55R22.5 160K	20	16.0	20.2	12.25	TL	All	On/Off	-	-	-	-	
T3030R02	* 385/65R22.5 160K	20	16.0	20.2	11.75	TL	All	On/Off	-	-	-	-	
T3030R03	* 425/65R22.5 165K	20	16.0	20.2	13.00	TL	All	On/Off	-	-	-	-	

\* New Developing Sizes  
The labelling information is subject to change without notice.



## ***WH3060***

**NEW**

- 1 Application: Steer Wheel for long distance, also can be used as All Position pattern.
- 2 New designed pattern, Suitable for well paved road condition with high speed level and excellent durability.
- 3 Heavy loading capacity, Low heat build-up, High speed and Low noise.



● Standard Wheel   ● Permitted Wheel   ● Prohibited Wheel



## ***WD3080***




**NEW**

- 1 Application: Drive Wheel for medium mileage load series.
- 2 Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- 3 Excellent load capability, Longer mileage, Super Durability.






● Standard Wheel   ● Permitted Wheel   ● Prohibited Wheel

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
H3060R01	* 215/75R17.5 128/126M	16	12.0	15.0	6.00	TT	All	Highway	-	-	-	-	
H3060R02	* 225/75R17.5 129/127M	16	12.5	15.8	6.75	TT	All	Highway	-	-	-	-	
H3060R03	* 235/75R17.5 132/130M	16	12.5	15.8	6.75	TT	All	Highway	-	-	-	-	
H3060R04	* 245/70R17.5 136/134M	16	12.5	15.8	7.50	TT	All	Highway	-	-	-	-	
H3060R05	* 245/70R19.5 136/134M	16	12.5	15.8	7.50	TT	All	Highway	-	-	-	-	
H3060R06	* 265/70R19.5 140/138M	16	12.5	15.8	7.50	TT	All	Highway	-	-	-	-	
H3060R07	* 285/70R19.5 146/144M	16	13.0	16.4	8.25	TT	All	Highway	-	-	-	-	
H3060R08	* 305/70R19.5 148/145M	16	14.0	17.6	9.00	TT	All	Highway	-	-	-	-	
H3060R09	* 11R22.5 148/145M	18	14.5	18.4	8.25	TT	All	Highway	-	-	-	-	
H3060R10	* 12R22.5 152/149M	18	15.0	19.0	9.00	TT	All	Highway	-	-	-	-	
H3060R11	* 295/80R22.5 154/149M	18	15.5	19.6	9.00	TT	All	Highway	-	-	-	-	
H3060R12	* 315/80R22.5 157/154M	20	15.0	19.0	9.00	TT	All	Highway	-	-	-	-	
H3060R13	* 315/70R22.5 156/150M	20	15.0	19.0	9.00	TT	All	Highway	-	-	-	-	
H3060R14	* 315/60R22.5 154/148M	18	15.0	19.0	9.00	TT	All	Highway	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D3080R01	* 215/75R17.5 128/126M	16	15.0	19.0	6.00	TT	Drive	Highway	-	-	-	-	
D3080R02	* 225/75R17.5 129/127M	16	15.5	19.6	6.75	TT	Drive	Highway	-	-	-	-	
D3080R03	* 235/75R17.5 132/130M	16	15.5	19.6	6.75	TT	Drive	Highway	-	-	-	-	
D3080R04	* 245/70R17.5 136/134M	16	15.5	19.6	7.50	TT	Drive	Highway	-	-	-	-	
D3080R05	* 245/70R19.5 136/134M	16	15.5	19.6	7.50	TT	Drive	Highway	-	-	-	-	
D3080R06	* 265/70R19.5 140/138M	16	15.5	19.6	7.50	TT	Drive	Highway	-	-	-	-	
D3080R07	* 285/70R19.5 146/144M	16	16.0	20.2	8.25	TT	Drive	Highway	-	-	-	-	
D3080R08	* 305/70R19.5 148/145M	16	18.0	22.8	9.00	TT	Drive	Highway	-	-	-	-	
D3080R09	* 11R22.5 148/145M	18	20.0	25.2	8.25	TT	Drive	Highway	-	-	-	-	
D3080R10	* 12R22.5 152/149M	18	20.0	25.2	9.00	TT	Drive	Highway	-	-	-	-	
D3080R11	* 295/80R22.5 154/149M	18	20.0	25.2	9.00	TT	Drive	Highway	-	-	-	-	
D3080R12	* 315/80R22.5 157/154M	20	20.0	25.2	9.00	TT	Drive	Highway	-	-	-	-	
D3080R13	* 315/70R22.5 156/150M	20	20.0	25.2	9.00	TT	Drive	Highway	-	-	-	-	
D3080R14	* 315/60R22.5 154/148M	18	20.0	25.2	9.00	TT	Drive	Highway	-	-	-	-	

\* New Developing Sizes.

The labelling information is subject to change without notice.





## WA1060

- ① Application: All Position Wheels for On/Off use.
- ② Mixed pattern, Suitable for mixed road surface and relatively poor road condition with sideslip resistance.
- ③ Excellent crack & tear resistance, High speed, Long mileage.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel



## WD2062

- ① Application: Drive Wheel for medium mileage load series.
- ② Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- ③ Excellent load capability, Longer mileage, Super Durability.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel






## WD2062+

- ① Application: Drive Wheel for medium mileage load series.
- ② Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- ③ Excellent load capability, Longer mileage, Super Durability.






- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel




## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
A1060R13	7.50R16LT 122/118L	14	13.0	16.4	6.50	TT	ALL	On/Off	-	-	-	-
A1060R14	8.25R16LT 128/124K	16	13.0	16.4	6.50	TT	ALL	On/Off	-	-	-	-
A1060R06	9.00R20 144/142K	16	15.5	19.6	7.00	TT	ALL	On/Off	-	-	-	-
A1060R07	10.00R20 149/146K	18	16.0	20.2	7.50	TT	ALL	On/Off	-	-	-	-
A1060R08	11.00R20 152/149K	18	16.0	20.2	8.00	TT	ALL	On/Off	-	-	-	-
A1060R09	12.00R20 156/153K	20	16.0	20.2	8.50	TT	ALL	On/Off	-	-	-	-
A1060R10	12.00R24 160/157K	20	15.0	20.2	8.50	TT	ALL	On/Off	-	-	-	-

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
D2062R05	7.50R16LT 122/118K	14	14.5	18.4	6.50	TT	Drive	On/Off	-	-	-	-
D2062R06	8.25R16LT 128/124K	16	14.5	18.4	6.50	TT	Drive	On/Off	-	-	-	-
D2062R01	9.00R20 144/142J	16	18.0	22.8	7.00	TT	Drive	On/Off	-	-	-	-
D2062R02	10.00R20 149/146K	18	18.0	22.8	7.50	TT	Drive	On/Off	-	-	-	-

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
D2062R03+	11.00R20 152/149K	18	18.5	23.4	8.00	TT	Drive	On/Off	-	-	-	-
D2060R04+	12.00R20 156/153K	20	19.5	24.6	8.50	TT	Drive	On/Off	-	-	-	-

\* New Developing Sizes

The labelling information is subject to change without notice.



## **WA1066**

- ① Application: All Position Wheels for On/Off use.
- ② Mixed pattern, Suitable for mixed road surface and relatively poor road condition with high loading capability.
- ③ Excellent crack & tear resistance, Good anti-uneven wear character.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel



## **WD2066**

- ① Application: Drive Wheel for short distance on/off road use.
- ② Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- ③ Longer Mileage, Strong Structure, Good anti-wear performance.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel






## **WD2088**

- ① Application: Drive Wheel for short distance on mining and construction areas.
- ② Suitable for low speed ride on bad road condition, specially for mining area, with powerful grip and high loading ability.
- ③ Longer Mileage, Strong Structure, Good anti-wear performance.






- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel




## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
A1066R03	9.00R20 144/142K	16	15.5	19.6	7.00	TT	ALL	On/Off	-	-	-	-
A1066R04	10.00R20 149/146K	18	16.0	20.2	7.50	TT	ALL	On/Off	-	-	-	-
A1066R01	11.00R20 152/149K	18	16.0	20.2	8.00	TT	ALL	On/Off	-	-	-	-
A1066R02	12.00R20 156/153K	20	16.0	20.2	8.50	TT	ALL	On/Off	-	-	-	-

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
D2066R01	11.00R20 152/149J	18	18.5	23.4	8.00	TT	Drive	On/Off	-	-	-	-
D2066R02	12.00R20 156/153J	20	19.5	24.6	8.50	TT	Drive	On/Off	-	-	-	-

## M+S

Item No.	Sizes Description	Ply Rating	Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
			MM	1/32"								
D2088R01	11.00R20 152/149G	18	21.0	26.4	8.00	TT	Drive	Off	-	-	-	-
D2088R02	12.00R20 156/153G	20	22.0	27.8	8.50	TT	Drive	Off	-	-	-	-
D2088R08	12.00R24 160/157G	20	22.0	27.8	8.50	TT	Drive	Off	-	-	-	-

\* New Developing Sizes.

The labelling information is subject to change without notice.





## WA1088

- ① Application: Steer Wheel for long distance, also can be used as All Position pattern.
- ② New designed pattern, Suitable for well paved road condition with high speed level and excellent durability.
- ③ Heavy loading capacity, Low heat build-up, High speed and Low noise.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel



## WD2040

- ① Application: Drive Wheel for short distance on/off road use.
- ② Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- ③ Longer Mileage, Strong Structure, Good anti-wear performance.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel






## WD2020

- ① Application: Drive Wheel for medium mileage load series.
- ② Open Shoulder designs, the block pattern offer excellent drive force and anti-peeling performance on paved and unpaved roads.
- ③ Excellent load capability, Longer mileage, Super Durability.






- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel





## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
A1088R03	11.00R20 152/149K	18	16.5	20.8	8.00	TT	All	Highway	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2040R01	10.00R20 149/146K	18	20.0	25.2	7.50	TT	Drive	On/Off	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2020R20	10.00R20 149/146K	18	20.0	25.2	7.50	TT	Drive	Highway	D	D		75	

\* New Developing Sizes.  
The labelling information is subject to change without notice.



## **WA1068**

- ① Application: All Position Wheels for long mileage load series.
- ② New designed pattern, Suitable for well paved road condition with excellent durability.
- ③ Standard load, Low heat build-up, High speed.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel



## **WD2068**

- ① Application: Drive Wheel for short distance on/off road use.
- ② Suitable for low or middle speed ride on/off road condition, with powerful grip and high loading ability.
- ③ Longer Mileage, Strong Structure, Good anti-wear performance.



- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel






## **WA1062+**

- ① Application: All Position Wheels for long mileage load series.
- ② New designed pattern, Suitable for well paved road condition with excellent durability.
- ③ Standard load, Low heat build-up, High speed.






- Standard Wheel
- Permitted Wheel
- ⊗ Prohibited Wheel




## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
A1068R01	12.00R24 160/157K	20	16.0	20.2	8.50	TT	ALL	Highway	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D2068R01	12.00R24 160/157K	20	16.0	20.8	8.50	TT	Drive	On/Off	-	-	-	-	

## M+S

Item No.	Sizes Description	Ply Rating		Tread Depth		Standard Rim	Tubeless/Tube	Rim position	Application				dB
		MM	1/32"	MM	1/32"								
D1062R01+	12.00R24 160/157K	20	16.0	20.8	8.50	TT	ALL	Highway	-	-	-	-	

\* New Developing Sizes.

The labelling information is subject to change without notice.





# TBR Certificates

## SMART-WAY<WH1020>



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, DC 20460

AUG - 2 2010

OFFICE OF  
AIR AND WASTE TILES

Mr. Ran Wang  
Shandong Haohua Tire Co., Ltd.  
Dadi Road West, Xintai Road North, Houshen Industry Zone  
Shouguang City Shandong Province  
China

Dear Mr. Wang:

The U.S. Environmental Protection Agency (EPA) has reviewed Shandong Haohua Tire Co., Ltd.'s request for verification of the WINDFORCE WH1020 tire for use on line-haul class-8 tractor trailers. Based upon your application and data provided, you have demonstrated that the coefficient of rolling resistance of the subject tire meets the requirements of the SmartWay Technology Program. The subject tire achieves the appropriate target values for the axle positions indicated and can be considered a low rolling resistance tire. In prior testing, EPA has determined that certain low rolling resistance tire models when used on all five axles of line-haul class-8 tractor trailers can reduce NOx emissions and improve fuel consumption by over 3 percent. Based on our evaluation of your verification application and data provided, EPA hereby verifies that this product meets the low rolling resistance tire performance criteria for new tires.

The following product is approved as a Verified Low Rolling Resistance Tire in the SmartWay Technology Program:

Requestor: Shandong Haohua Tire Co., Ltd.  
Tire Manufacturer: Shandong Haohua Tire Co., Ltd.  
Tire Brand and Model: WINDFORCE WH1020  
ENAVIGATOR S201

Test Method: ISO28580  
Axle Positions Qualifying for Verification: Steer

The following operating criteria must be met in order for trucks to achieve the aforementioned benefits:

1. Tires are used on the axle position(s) stated above on a line-haul class-8 tractor trailer.

2. Verified low rolling resistance tires must be installed on all axle positions of the tractor and trailer.
3. All tires must be properly inflated according to the manufacturer's specifications.

Information on the tires listed above will be posted on the EPA's Verified Technology List website at: <http://www.epa.gov/smartway/partners/technology.htm>. If the tire models listed above are modified from the application description provided to EPA and representative of products tested, you must notify EPA immediately. This verification does not automatically confer to modified tires that are similar to this original verification.

As a manufacturer of EPA SmartWay verified technologies, your organization plays a unique role in the SmartWay program. Shandong Haohua Tire Co., Ltd. produces the technologies that provide emissions reduction and fuel saving benefits when used properly in their designed applications. These technologies are used by SmartWay Partners and other businesses to help support their performance goals. The enclosed document contains communication guidelines for manufacturers of EPA SmartWay verified technologies. If you have questions regarding these policies, please consult the enclosed communications policy summary or you may contact Joann Jackson-Stephens directly at [jackson-stephens.joann@epa.gov](mailto:jackson-stephens.joann@epa.gov).

Thank you for participating in EPA's Technology Verification Program. If you have any questions or comments, please contact L. Joseph Bachman, of my staff, at 202-343-9173.

Sincerely,

Karl Simons, Director  
Transportation and Climate Division  
Office of Transportation and Air Quality

Enclosure

## SMART-WAY<WD2000>



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Washington, DC 20460

OCT 4 2010

OFFICE OF  
AIR AND WASTE TILES

Mr. Ran Wang  
Shandong Haohua Tire Co., Ltd.  
Dadi Road West, Xintai Road North, Houshen Industry Zone  
Shouguang City Shandong Province  
P. R. China

Dear Mr. Wang:

The U.S. Environmental Protection Agency (EPA) has reviewed Shandong Haohua Tire Co., Ltd.'s request for verification of the WINDFORCE WD2000 tire for use on line-haul class-8 tractor trailers. Based upon your application and data provided, you have demonstrated that the coefficient of rolling resistance of the subject tire meets the requirements of the SmartWay Technology Program. The subject tire achieves the appropriate target values for the axle positions indicated and can be considered a low rolling resistance tire. In prior testing, EPA has determined that certain low rolling resistance tire models when used on all five axles of line-haul class-8 tractor trailers can reduce NOx emissions and improve fuel consumption by over 3 percent. Based on our evaluation of your verification application and data provided, EPA hereby verifies that this product meets the low rolling resistance tire performance criteria for new tires.

The following product is approved as a Verified Low Rolling Resistance Tire in the SmartWay Technology Program:

Requestor: Shandong Haohua Tire Co., Ltd.  
Tire Manufacturer: Shandong Haohua Tire Co., Ltd.  
Tire Brand and Model: WINDFORCE WD2000  
CRATOS CRD220  
APLUS D808

Test Method: ISO28580  
Axle Positions Qualifying for Verification: Steer

The following operating criteria must be met in order for trucks to achieve the aforementioned benefits:

1. Tires are used on the axle position(s) stated above on a line-haul class-8 tractor trailer.
2. Verified low rolling resistance tires must be installed on all axle positions of the tractor and trailer.
3. All tires must be properly inflated according to the manufacturer's specifications.

Information on the tires listed above will be posted on the EPA's Verified Technology List website at: <http://www.epa.gov/smartway/partners/technology.htm>. If the tire models listed above are modified from the application description provided to EPA and representative of products tested, you must notify EPA immediately. This verification does not automatically confer to modified tires that are similar to this original verification.

As a manufacturer of EPA SmartWay verified technologies, your organization plays a unique role in the SmartWay program. Shandong Haohua Tire Co., Ltd. produces the technologies that provide emissions reduction and fuel saving benefits when used properly in their designed applications. These technologies are used by SmartWay Partners and other businesses to help support their performance goals. The enclosed document contains communication guidelines for manufacturers of EPA SmartWay verified technologies. If you have questions regarding these policies, please consult the enclosed communications policy summary or you may contact Joann Jackson-Stephens directly at [jackson-stephens.joann@epa.gov](mailto:jackson-stephens.joann@epa.gov).

Thank you for participating in EPA's Technology Verification Program. If you have any questions or comments, please contact L. Joseph Bachman, of my staff, at 202-343-9173.

Sincerely,

Karl Simons, Director  
Transportation and Climate Division  
Office of Transportation and Air Quality

Enclosure

# TBR Certificates

**ECE <WH1020>**

**R117-Labeling**



RDW  
Rijksdienst voor het Verkeer en Waterbouw

THE NETHERLANDS  
(N E D E R L A N D)




COMMUNICATION

Concerning:  
- approval granted  
- approval extended  
- approval refused  
- approval withdrawn  
- production deficiency discovered

of a type of tyre with regard to 'rolling sound emission level' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to Regulation number 117.

Approval number: E4-117R-027485-S2W42 Extension number: 00

1. Manufacturer's name and address:	SHANDONG HAOCHA TYRE Co., Ltd Dadi Road, West Xinhai Road North, Huzhou Industry zone, Shaoxing city, Shandong Province, P.R.China
2. If applicable, name and address of manufacturer's representative:	not applicable
3. Tyre class and 'category of use' of the type of tyre:	Class C0+Class C2+Class C3 non-remountable
4. Brand(s) name(s) and/or Trade description(s) of the type of tyre:	WINDFORCE, LANVGATOR, APLUS, W10100
5. Technical service and, where appropriate, test laboratory approved for purposes of approval or of verification of conformity with:	TUV NORD Mobilität GmbH & Co. KG Institut für Fahrzeugtechnik und Mobilität Address: 7 D-42699 Soltau

Page 1 of 2

Approval number: E4-117R-027485-S2W42 Extension number: 00

6. Performance(s) approved:	sound level at tempo 6 stage 21 <sup>(1)</sup> , wet adhesion level/rolling resistance level tempo 6 stage 21 <sup>(2)</sup>
6.1. Sound level of the representative tyre test, as per item 1.6. of the test report in the appendix to Annex 3 7 <sup>(3)</sup> (RWA) at reference speed of 70km/h <sup>(4)</sup>	
6.2. Wet adhesion level of the representative tyre test, as per item 1.7. of the test report in the appendix to Annex 3 1.10 (1) using the vehicle or trailer method <sup>(5)</sup>	
6.3. Rolling resistance level of the representative tyre test, as per item 1.8. of the test report in the appendix to Annex 3 4.01 (AA) <sup>(6)</sup>	
7. Number of reports issued by this service:	CS117-A0-2015-02087
8. Date of report issued by this service:	September 01, 2015
9. Reason(s) of extension (if applicable):	Not applicable
10. Any remarks:	---
11. Place:	Zwettamer
12. Date:	10-SEP-2015
13. Signature:	 R.F.R. Clement
14. Attached to this communication are:	
14.1. A list of documents in the approval file deposited at the Administration services having delivered the approval and which can be obtained upon request <sup>(7)</sup>	
14.2. A list of trade-names designations. Specify for each trademark or brand name and trade description the list of tyre size designations, adding in case of Class C3 tyres the mark 'non-remount' (or 'remount') or the speed symbol of same tyres or in the case of tyre of Classes C2 and C3, the mark 'season', if so required by paragraph 3.3. of this Regulation.	

Page 2 of 2

**ECE <WD2020>**

**R117-Labeling**



RDW  
Rijksdienst voor het Verkeer en Waterbouw

THE NETHERLANDS  
(N E D E R L A N D)




COMMUNICATION

Concerning:  
- approval granted  
- approval extended  
- approval refused  
- approval withdrawn  
- production deficiency discovered

of a type of tyre with regard to 'rolling sound emission level' and/or 'adhesion performance on wet surfaces' and/or 'rolling resistance' pursuant to Regulation number 117.

Approval number: E4-117R-027486-S2W42 Extension number: 00

1. Manufacturer's name and address:	SHANDONG HAOCHA TYRE Co., Ltd Dadi Road, West Xinhai Road North, Huzhou Industry zone, Shaoxing city, Shandong Province, P.R.China
2. If applicable, name and address of manufacturer's representative:	not applicable
3. Tyre class and 'category of use' of the type of tyre:	Class C0+Class C2+Class C3 non-remountable
4. Brand(s) name(s) and/or Trade description(s) of the type of tyre:	WINDFORCE, LANVGATOR, APLUS, W10100
5. Technical service and, where appropriate, test laboratory approved for purposes of approval or of verification of conformity with:	TUV NORD Mobilität GmbH & Co. KG Institut für Fahrzeugtechnik und Mobilität Address: 7 D-42699 Soltau

Page 1 of 2

Approval number: E4-117R-027486-S2W42 Extension number: 00

6. Performance(s) approved:	sound level at tempo 6 stage 21 <sup>(1)</sup> , wet adhesion level/rolling resistance level tempo 6 stage 21 <sup>(2)</sup>
6.1. Sound level of the representative tyre test, as per item 1.6. of the test report in the appendix to Annex 3 7 <sup>(3)</sup> (RWA) at reference speed of 70km/h <sup>(4)</sup>	
6.2. Wet adhesion level of the representative tyre test, as per item 1.7. of the test report in the appendix to Annex 3 1.10 (1) using the vehicle or trailer method <sup>(5)</sup>	
6.3. Rolling resistance level of the representative tyre test, as per item 1.8. of the test report in the appendix to Annex 3 4.01 (AA) <sup>(6)</sup>	
7. Number of reports issued by this service:	CS117-A0-2015-02088
8. Date of report issued by this service:	October 16, 2015
9. Reason(s) of extension (if applicable):	Not applicable
10. Any remarks:	---
11. Place:	Zwettamer
12. Date:	02-NOV-2015
13. Signature:	 R. van der ...
14. Attached to this communication are:	
14.1. A list of documents in the approval file deposited at the Administration services having delivered the approval and which can be obtained upon request <sup>(7)</sup>	
14.2. A list of trade-names designations. Specify for each trademark or brand name and trade description the list of tyre size designations, adding in case of Class C3 tyres the mark 'non-remount' (or 'remount') or the speed symbol of same tyres or in the case of tyre of Classes C2 and C3, the mark 'season', if so required by paragraph 3.3. of this Regulation.	

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***WINDFORCE TYRE CO., LIMITED***

***DISTRIBUTED BY***

