OPARTNER

safe | Environmental-friendly | Fuel-saving | Wear resistance

TRUCK & BUS
RADIAL TIRES

PRODUCT MANUAL

QINGDAO GLAVAN INDUSTRIAL CO., LTD.
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COMPANY HONOR

- Sichuan Provincial Labor Award
- Enterprise Technology Center in Sichuan Province
- Hi-Tech enterprises in Sichuan
- National Experimental Testing Center
- "Mining use TBR tire with high strength and resistance to cutting" won the Sichuan Provincial Science and Technology Progress Award
- "Research and development as well as application Into tires for key technologies of high gelling formulation" won the Sichuan Provincial Science and Technology Progress Award

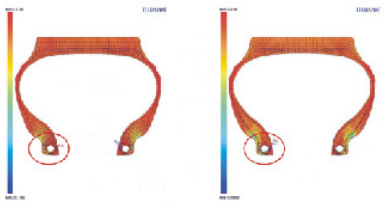
SYSTEM CERTIFICATIONS

- Since its establishment , Qingdao Glavan Industrial Co., ltd. has obtained IATF16949 Quality Management System Certification, GB/T24001 Environmental certification. GB/T8001 Occupational Health and Safety certification; Passed the China Compulsory Certification CCC and U.S. DOT certification, U.S. SMARWAY certification, EU ECE certification, Gulf GCC certification, EU Environmental and Noise Certification; obtained the right to import and export product.

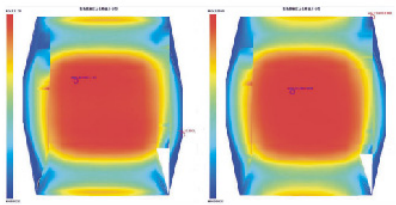
New type structure with double tread

- Tires performance improved with sub-tread made by excellent low heat compound and optimized construction process

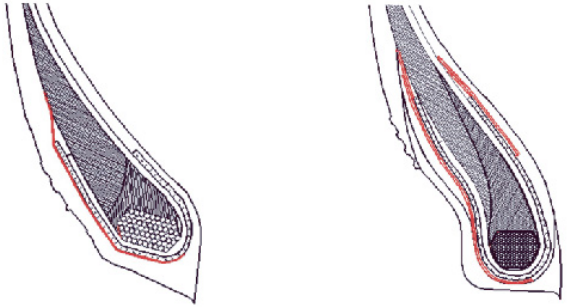
Optimal design



Tire tread ground stress analysis



Design of tire bead reinforced



- Design of tubeless type tire bead reinforced
- Design of tube type tire bead reinforced

Tire loading capability improved greatly with strengthened tire bead using a multilayer and high strength fiber fabric in the toes of tire.



PROCESS EQUIPMENTS

As new production line of TBR tires, its overall level of the project has reached the international advanced level of technology with a high starting point for equipment selection and imports of all key equipment as well as configuration of high-technology equipment. Kalevei Technology can reduce raw material and energy consumption effectively and improve the comprehensive utilization of resources to achieve cleaner and energysaving production with safety using advanced energy-saving technologies and taking effective security control measures, fire control measures and occupational hazard prevention measures. Product performance guaranteed 10 enhance the core competitiveness of marketing with a design and establishment of a perfect internal technology development and process management system.





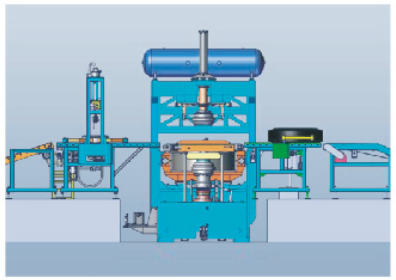

Production Process

Production line equipped by low temperature mixing mill processing, double machine inner-liner calendar processing, cold and hot dual multiplex extrusion production processing, triplex multiplex extruding production processing, one stage tire building machine with two drums, one stage tire building machine with three drums. nitrogen hydraulic production processing. All tires must be passed test by non-destructive X-ray machine and checked partially by dynamic balance performance test. uniformity performance test and non circularity detection.

Quality Management

With regard to quality of management, Kalevei Technology adheres to the quality of legislation, activate implementation of the ISO/TS1 6949 quality management system, optimizes the quality management process, strengthen the process control, establishes "Pyramid quality" management model, the management guide participation of all employees to ensure a high and stable quality products. Regarding to production management, company implements and improves the "6S" management with input and output management for material object quantity, by implementation of lean production, forming a more scientific plan and organizational system of production, making internal cost control efficiently.




PRODUCTS POSITIONING

Introduction & Recommendation For Five Categories Patterns Marketing

Long Haul High Speed

CP188 P09 | CP355 P10 | CP586 P11 | CP587 P12 | CP928 P13 | CP929 P14 | CP961 P15 | CP962 P16 | CP963 P17

CP965 P18 | CP969 P19 | CP969++ P20 | CP989G P21 | CP999G P22

Medium & Long Haul

CP157 P23 | CP158 P24 | CP160 P25 | CP162 P26 | CP167 P27 | CP168 P28 | CP169 P29 | CP180 P30 | CP183 P31

CP186 P32 | CP580 P33 | CP580++ P34 | CP966 P35

Medium & Short Haul

CP260 P36 | CP261 P37 | CP262 P38 | CP263 P39 | CP268 P40 | CPA68 P41 | CP269 P42 | CP285 P43

Mining & Building Site

CP762 P44 | CP765 P45 | CP767 P46 | CP769 P47 | CP769A P48 | CP776 P49 | CP777K P50 | CP779K P51 | CP786 P52

CP788 P53 | CP788K P54 | CP789K P55

Winter Series

CP150 P56 | CP152 P57 | CP159 P58

North America Series

CPS228 P59 | CPD728 P60 | CPT128 P61 | CPS226 P62

Special Trailer Series

CP161 P63 | CP182 P64

Long Haul Series

CP188

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of Two straight and one bend with longitudinal and Transverse tortuous grooves provide excellent driving performance;
- Golden section ratio pattern block with optimized pattern block by the ultra-high wear-resistant tread formula for excellent wear resistance;
- The closed shoulder with widened pattern block to avoid abnormal wear of the tire shoulder.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5	18	152/149	L	9.00	300	1085	15.5

Long Haul Series

CP355

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Widening and deepening patttern with high saturation and variable pitch for low noise and fuel saving;
- Open tires's shoulders pattern designed for excellent heat dissipation;
- The unique gradient pattern designed not only guarantees the driving performance in the early and mid-term but also ensures more excellentwear resistance in the later.

MAIN SIZES AND PARAMETERS

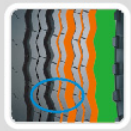
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5	18	152/149	L	9.00	300	1085	20.0
315/80R22.5	20	157/154	L	9.00	312	1076	20.0

Long Haul Series

CP586

Load performance ★★★☆☆
Wear performance ★★★★★
Speed performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Four consecutive main grooves and three auxiliary fine grooves to provide better drainage and grip performance;
- Design of proper proportion for block and groove to provide better wear resistance performance;
- Design of broader tires shoulder can prevents partial wear better.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
385/65R22.5	20	160	K	11.75	389	1072	15.5

Long Haul Series

CP587

Load performance ★★★☆☆
Wear performance ★★★★★
Speed performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of five pattern grooves provide better slip and wet resistance as well as safe handling;
- Design of proper proportion for block and groove provide better wear performance and resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
385/65R22.5	20	160	K	11.75	389	1072	15.5

Long Haul Series

CP928

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Special tire tread formula, provide better wear resistance performance, increase tire mileage;
- Design of Broader tire shoulder can decrease tire abrasion;
- Special tire shoulder design, low heating formula to decrease shoulder heating, increase tire durable performance;
- Diamond-shaped stones emitter at the bottom of grooves combines functionality and aesthetics.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5	18	152/149	M	9.00	300	1085	14.5
275/70R22.5	18	146/143	L	8.25	276	958	14.5

Long Haul Series

CP929

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Closed pattern on shoulder designed to improve shoulder rigidity and prevent partial wear.
- The tread with ultra-high wear-resistant formula provides excellent wear resistance and durability.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5	18	152/149	M	9.00	300	1085	15.5

Long Haul Series

CP961

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of oblique pattern block and zigzag grooves provide better outstanding steering performance and stability as well as safe and good handling performance on dry and wet road;
- Small steel disc helps to tire's heat dissipation and the applicability of different wheel location;
- Tire shoulder circumferential grooves provide better partial wearing resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	18	152/149	M	9.00	298	1044	15.0

Long Haul Series

CP962

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Four consecutive main grooves and three auxiliary fine grooves provide outstanding drainage and grip performance;
- Design of pattern block with V type grooves provide better steering and driving performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
215/75R17.5	16	127/124	M	6.00	211	767	11.5
235/75R17.5	16	132/129	M	6.75	233	797	11.5
315/80R22.5	20	157/154	L	9.00	312	1076	15.0

Long Haul Series

CP963

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Four consecutive grooves and oblique grooves provide outstanding performance of steering and stability;
- Special design with stones emitter at the bottom of pattern grooves prevents sandwiching stones damage tires;
- Small steel disc helps to tire's heat dissipation and the applicability of different wheel location.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	18	152/149	M	9.00	298	1044	15.0
315/70R22.5	18	151/148	M	9.00	312	1014	16.5
315/80R22.5	20	157/154	L	9.00	312	1076	15.0

Long Haul Series

CP965

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Four consecutive main grooves and three auxiliary fine grooves provide outstanding drainage and grip performance;
- Stype steel disc provide better grip performance and wet and slip resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	18	149/146	M	8.25	279	1054	14.5

Long Haul Series

CP969

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of oblique pattern block and zigzag grooves provide better outstanding steering performance and stability as well as safe and good handing performance on dry and wet road;
- Small steel disc provide better heat dissipation and the applicability of different wheel location.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	146/143	M	8.25	279	1054	14.5
11R24.5	16	149/146	M	8.25	279	1104	14.5
315/80R22.5	20	157/154	L	9.00	312	1076	16.5

Long Haul Series

CP969++

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of oblique pattern block and zigzag grooves provide better outstanding steering performance and stability as well as safe and good handing performance on dry and wet road;
- Small steel disc helps to heat dissipation and the applicability of different wheel location.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	18	152/149	M	9.00	298	1044	15.0
295/80R22.5	20	154/151	L	9.00	298	1044	15.0

Long Haul Series

CP989

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of oblique pattern block and zigzag grooves provide better outstanding steering performance and stability as well as safe and good handing performance on dry and wet road;
- Small sipes help to heat dissipation and the applicability of different wheel location.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5(G)	18	152/149	M	9.00	300	1085	17.5
225/80R17.5	16	129/127	M	6.75	226	805	11.0
265/70R19.5	18	143/141	M	7.50	262	867	14.5
275/80R22.5	18	149/146	M	8.25	276	1012	15.0
295/60R22.5	18	150/147	M	9.00	292	930	15.0
295/80R22.5	18	152/149	M	9.00	298	1044	15.0

Long Haul Series

CP999

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Variable pitch design for low noise, fuel saving and excellent high speed performance;
- The special four-layer belt design for improving the steering stability of the tire.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5(G)	18	152/149	M	9.00	298	1044	16.0

Reasonable Long Haul

CP157

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Widened tread improves tire grounded pressure, one-way pattern groove provides better driving performance and wet and slip resistance;
- Big ratio of blocks and groove provides operation stability and safety. Special design of stone emitter at the bottom of pattern groove prevents sandwiching stone, and protect the bottom of pattern groove effectively;
- Open shoulder improves tire's heat dissipation.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	18	152/149	L	9.00	298	1044	19.0
295/80R22.5	20	154/151	L	9.00	298	1044	19.0
315/70R22.5	18	151/148	L	9.00	312	1014	23.0
315/80R22.5	20	157/154	L	9.00	312	1076	19.0

Reasonable Long Haul

CP158

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Special block type pattern groove provides better driving performance;
- Special groove provides pattern self-clean performance and protect the bottom of groove;
- Open shoulder improves tire's heat dissipation.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	146/143	L	8.25	279	1054	18.0
11R24.5	16	149/146	L	8.25	279	1104	18.0
295/80R22.5	18	152/149	L	9.00	298	1044	19.0
315/80R22.5	20	157/154	L	9.00	312	1076	19.0

Reasonable Long Haul

CP160

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Four consecutive main grooves and three auxiliary fine grooves provide outstanding drainage and grip performance;
- Design of pattern block with V type grooves provide better steering and driving performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
6.00R14LT	10	100/96	L	4½J	170	680	9.5
6.00R15LT	10	101/97	L	4½J	170	705	9.5
6.50R16LT	12	110/105	M	5.50F(TT) 5½J(TL)	185	750	9.5
7.00R16LT	14	118/114	M	5.50F(TT) 5½J(TL)	200	775	10.0

Reasonable Long Haul

CP162

Load performance ★★★★☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Broad tread and deep groove pattern, transversal groove, and shoulder transversal pattern to provide good driving performance and abrasion resistance;
- Optimized ratio of patterns block and optimized pattern block angle improve tires stability and abrasion resistance as well as driving performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5	18	152/149	L	9.00	300	1085	17.5

Reasonable Long Haul

CP167

Load performance ★★★★☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Broad tread and deep groove pattern, transversal groove, and shoulder transversal pattern to provide good driving performance and abrasion resistance;
- Optimized ratio of patterns block and optimized pattern block angle improve tires stability and abrasion resistance as well as driving performance;

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	18	149/146	L	8.25	279	1054	15.5
12R22.5(AG)	18	152/149	L	9.00	300	1085	16.0
13R22.5	18	154/151	K	9.75	320	1124	17.5

Reasonable Long Haul

CP168

Load performance ★★★★★
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Classic zigzag type patterns and more scientific pattern angle is suitable for steering positions;
- Transversal and open pattern on tires shoulder provides better griping capability.

MAIN SIZES AND PARAMETERS

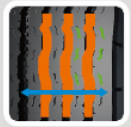
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
6.50R16LT	12	110/105	L	5.50F	185	750	10.0
7.00R16LT	14	118/114	L	5.50F	200	775	10.5
7.50R16LT	16	125/121	L	6.00G	215	805	12.0
8.25R16LT	16	128/124	L	6.50H	235	855	12.5
8.25R20	16	139/137	M	6.5	236	974	13.5
9.00R20	16	144/142	K	7.0	259	1019	13.5
10.00R20	18	149/146	J	7.5	278	1054	14.5
11.00R20	18	152/149	J	8.0	293	1085	16.0
12.00R20	18	154/151	K	8.5	315	1125	15.5
12.00R20	20	156/153	K	8.5	315	1125	15.5
11R22.5	16	148/145	L	8.25	279	1054	15.0
11R24.5	16	149/146	L	8.25	279	1104	16.0
12R22.5(AG)	18	152/149	L	9.00	300	1085	15.0
255/70R22.5	16	140/137	L	7.50	255	930	13.5
295/75R22.5	16	167/164	L	9.00	312	1076	16.0
315/80R22.5	20	157/154	L	9.00	312	1076	16.0
315/80R22.5	22	167/164	L	9.00	312	1076	16.0

Reasonable Long Haul

CP169

Load performance ★★★★☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Design of four consistent grooves and slant-edge pattern provide outstanding drainage and grip performance;
- Widened tread to improves tire's abrasion resistance and longer tire mileage;
- Design of unique steel disc helps to tire's heating dissipation and suitability for different wheels positions.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
7.50R16LT	16	125/121	L	6.00G	215	805	12.0
8.25R16LT	16	128/124	L	6.50H	235	855	13.0
9.5R17.5	18	143/141	M	6.75	240	842	12.0
ST225/90R16	14	128/124	L	6J	220	808	12.0
ST235/80R16	14	129/125	M	6½J	235	782	10.0
ST235/85R16	14	132/127	M	6½J	235	806	10.0

Reasonable Long Haul

CP180

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Three consecutive main grooves and oblique grooves provide outstanding drainage and grip performance;
- Design of pattern block with V type grooves provide better steering and driving performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
215/70R17.5	14	123/121	L	6.00	211	747	11.0

Reasonable Long Haul

CP183

Load performance ★★★★☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Specially designed tread pattern for stronger grip perfomance tire;
- Optimized design of widened side blocks to improve shoulder rigidity and improve tire wear resistance;
- The angle of the groove is designed to prevent stones from being trapped and improve the support performance of the block.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
7.50R16(K)	14	122/118	K	6.0G	215	805	15.0
10.00R20(K)	18	149/146	J	7.5	278	1054	17.0
12.00R20(K)	20	156/153	J	8.5	315	1125	16.5
12R22.5	18	152/149	L	9.00	300	1085	16.0
13R22.5(G)	20	156/153	L	9.75	320	1124	17.5
275/80R22.5	18	149/146	L	8.25	276	1012	15.0

Reasonable Long Haul

CP186

Load performance ★★★★★
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- The vertical three continuous grooves and the horizontal shallow grooves provide excellent drainage performance and grip performance;
- The wide tread and deep groove patterns provide excellent wear resistance;
- Design of an anti-trapping stone at the bottom of the groove to protect the carcass more effectively.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5(G)	18	152/149	L	9.00	300	1085	17.5

Reasonable Long Haul

CP580

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Four consecutive grooves provide outstanding drainage and grip performance;
- Design of reasonable ratio of grooves and block provides outstanding abrasion resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
315/80R22.5	20	157/154	L	9.00	312	1076	16.5

Reasonable Long Haul

CP580++

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Concise three longitudinal grooves and oblique grooves in the middle of pattern block is not only suitable for steering wheel positions but also for different wheels positions;
  Design of big pattern block in the middle of tread provides good abrasion resistance.

MAIN SIZES AND PARAMETERS

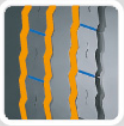
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
315/80R22.5	22	164/160	L	9.00	312	1076	17.0

Reasonable Long Haul

CP966

Load performance ★★★☆☆
Wear performance ★★★★★
Speed performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Four consecutive grooves provide outstanding drainage and grip performance;
- Design of reasonable ratio of grooves and block provides outstanding abrasion resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
245/70R19.5	16	135/133	M	7.50	248	839	14.0

Reasonable Short Haul

CP260

Load performance ★★★★★
Wear performance ★★★★★
Speed performance ★★★☆☆
Transport distance ★★★★☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Unique block pattern design provides better traction and griping performance;
- Unique pattern grooves design, enhances pattern's sell-clean performance and proctects the grooves bottom; Longer service life;
- Special shoulder design, ensures much rigid shoulder, and improves heat dissipation performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
265/70R19.5	18	143/141	K	7.5	262	867	16.0

Reasonable Short Haul

CP261

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Open shoulder design, broader horizontal groove, provide powerful traction and grip.
- High performance tire tread design, increase anti-abrasion performance.
- Anti-stone structure design at the bottom of pattern groove, increase anti-puncture performance.

MAIN SIZES AND PARAMETERS

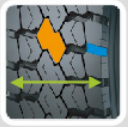
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
9.5R17.5	18	143/141	M	6.75	240	842	14.0
315/80R22.5	22	167/164	L	9.00	312	1076	19.5

Reasonable Short Haul

CP262

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- High performance tire tread formula, increase anti-abrasion performance;
- Open shoulder design, increase tire heat dissipation;
- Bottom tire compound is made of low heating formula, decrease shoulder heating; Design of broader tire tread, increase tire ground stress, avoid tire's irregular abrasion.

MAIN SIZES AND PARAMETERS

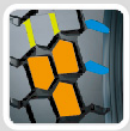
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5(G)	18	152/149	L	9.0	300	1085	20.5

Reasonable Short Haul

CP263

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Deeper pattern with formulation of abrasion resistance and low heating performance for longer miles;
- Open shoulder and block type pattern provides strong traction and gripping stress;
- Design of emitting stones at the bottom of grooves improves anti-puncture performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11.00R20	18	152/149	J	8.0	293	1085	17.0
12.00R20(K)	20	156/153	J	8.5	315	1125	20.0

Reasonable Short Haul

CP268

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Deeper pattern with formulation of abrasion resistance and low heating performance for longer miles;
- Open shoulder and block type pattern provides strong traction and gripping stress;
- Design of emitting stones at the bottom of grooves improves anti-puncture performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
7.00R16LT	14	118/114	L	5.50F	200	775	13.0
7.50R16LT	16	125/121	K	6.00G	215	805	13.5
8.25R16LT	16	128/124	K	6.50H	235	855	13.5
8.25R20	16	139/137	J	6.5	236	974	15.5
9.00R20	16	144/142	J	7.0	259	1019	17.0

Reasonable Short Haul

CPA68

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Lateral block reinforced designed for strong traction and grip;
- The stone ejectors at the bottom of the pattern grooves improves the puncture resistance;
- Tread by abrasion-resistant and gnawing-resistant formula for excellent abrasion resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
10.00R20	18	149/146	J	7.5	278	1054	18.5
11.00R20	18	152/149	J	8.0	293	1084	19.5
12.00R20 (K)	20	156/153	K	8.5	315	1125	19.5

Reasonable Short Haul

CP269

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Deeper pattern with formulation of abrasion resistance and low heating performance for longer miles;
- Open shoulder and block type pattern provides strong traction and gripping stress;
- Stones emitter stones at the bottom of grooves improves anti-puncture performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5(G)	18	152/149	L	9.00	300	1085	19.5
315/80R22.5	22	167/164	L	9.00	312	1076	19.5

Reasonable Short Haul

CP285

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Mixed pattern with four longitudinal groove by special shape blocks for elegant appearance, excellent handling performance and different road use condition.
- Tire pattern with variable pitch for effectively prevent the noise from resonance.
- Special transverse groove for low heat generation, good heat dissipation and excellent durability.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
225/80R17.5	16	129/127	L	6.75	226	805	13.0

Mining & Building

CP762

Load performance ★★★★★
Speed performance ★☆☆☆☆
Wear performance ★★★★☆
Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Optimized block patterns with wider longitudinal and transverse grooves, enable tires traction to be improved greatly;
- Proper ratio design of block and groove provides good abrasion resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	20	154/151	K	9.00	298	1044	19.0
13R22.5	18	154/151	F	9.75	320	1124	19.5
12.00R20	20	156/153	F	8.5	315	1136	20.0

Mining & Building

CP765

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Optimized block patterns with wider longitudinal and transverse grooves, enable tires traction to be improved greatly;
- Proper ratio design of block and groove provides good abrasion resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
6.00R14LT	10	100/96	J	4½J	170	680	11.0
6.00R15LT	10	101/97	J	4½J	170	705	11.0
8.25R16LT	16	128/124	D	6.50H	235	865	18.5
9.00R20	18	147/145	D	7.0	259	1019	20.5

Mining & Building

CP767

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block with deep patterns, provides strong gripping stress on bad road;
- Interlaced reinforcing rib design at the pattern block bottom, prevents groove bottom from being punctured, provides better tear resistance and anti-puncturing performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
9.00R20	16	144/142	F	7.0	259	1030	22.0
10.00R20	18	149/146	F	7.5	278	1065	22.5
11.00R20	18	152/149	F	8.0	293	1096	23.0
12.00R20	20	156/153	F	8.5	315	1136	24.5

Mining & Building

CP769

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block patterns provides better driving performance and gripping stress on bad road;
- Interlaced reinforcing rib design at the pattern block bottom provides better tear resistance and anti-puncturing performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
8.25R16LT	16	128/124	J	6.50H	235	865	18.0
10.00R20	18	149/146	F	7.5	278	1065	22.5
11.00R20	18	152/149	E	8.0	293	1096	22.0
12.00R20	20	156/153	E	8.5	315	1136	22.5
295/80R22.5	20	154/151	K	9.00	298	1044	20.0

Mining & Building

CP769A

Load performance ★★★★★
Speed performance ★★★☆☆
Wear performance ★★★★★
Transport distance ★★★☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block patterns provides better driving performance and gripping stress on bad road;
- Interlaced reinforcing rib design at the pattern block bottom provides better tear resistance and anti-puncturing performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
295/80R22.5	20	154/151	K	9.00	298	1044	20.0

Mining & Building

CP776

Load performance ★★★☆☆
Wear performance ★★★★☆
Speed performance ★☆☆☆☆
Transport distance ★★☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block with deep patterns, provides strong gripping stress on bad road;
- Interlaced reinforcing rib design at the pattern block bottom, prevents groove bottom from being punctured, provides better tear resistance and anti-puncturing performance.

MAIN SIZES AND PARAMETERS

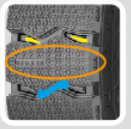
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	18	149/146	J	9.00	279	1054	21.0
12R22.5	18	152/149	J	9.00	300	1085	22.5
225/80R17.5	16	129/127	F	6.75	226	805	15.0
315/80R22.5	22	167/161	D	9.00	312	1076	22.5

Mining & Building

CP777K

Load performance ★★★★★
Wear performance ★★★★☆
Speed performance ★★☆☆☆
Transport distance ★★☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Enlarged and deepened pattern block designed for excellent puncture resistance, impact resistance, and explosion resistance;
- The transverse grooves provides excellent grip and driving force;
- Stepping and anti-stone designed for improving puncture resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12.00R20(K)	22	158/155	D	8.5	315	1136	24.5

Mining & Building

CP779K

Load performance ★★★★★
Speed performance ★☆☆☆☆
Wear performance ★★★★☆
Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Ultra-wide and ultra-deep pattern designed for longer service life;
- Large block pattern designed excellent puncture resistance and impact resistance;
- Stepping and anti-stone designed for improving puncture resistance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12.00R20(K)	22	158/155	D	8.5	315	1136	26.0

Mining & Building

CP786

Load performance ★★★★★
Speed performance ★☆☆☆☆
Wear performance ★★★★☆
Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Widened and deepened pattern for excellent puncture and impact resistance and longer service life;
- The transverse grooves provides excellent grip and driving force;
- The bottom of the pattern groove with stone ejector to prevent stones clipped and improve the puncture resistance and effectively protect the carcass.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12R22.5(G)	18	152/149	G	9.00	300	1085	24.0
315/80R22.5	20	157/154	G	9.00	312	1082	24.0

Mining & Building

CP788

Load performance ★★★★★
Speed performance ★☆☆☆☆
Wear performance ★★★★☆
Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Oversized block pattern provides better driving performance and gripping ability on the bad road conditions;
- Interlaced reinforcing rib design at the pattern block bottom provides better tear resistance and anti-puncturing performance;
- Stone emitter at the bottom of grooves protects tire carcass effectively.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
8.25R20	16	139/137	F	6.5	236	986	18.5
9.00R20	16	144/142	F	7.0	259	1030	20.0
10.00R20	18	149/146	F	7.5	278	1065	22.5
11.00R20	18	152/149	F	8.0	293	1096	22.5
12.00R20	20	156/153	F	8.5	315	1136	24.5

Mining & Building

CP788K

Load performance ★★★★★
Speed performance ★☆☆☆☆
Wear performance ★★★★☆
Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Oversized block pattern provides better driving performance and gripping ability on the bad road conditions;
- The special mining tread formula and mixing process improve the cutting resistance and puncture resistance of the rubber compound;
- Stone emitter at the bottom of grooves protects tire carcass effectively.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12.00R20(K)	20	156/153	F	8.5	315	1136	24.5

Mining & Building

CP789K

Load performance ★★★★★ Wear performance ★★★★☆
Speed performance ★☆☆☆☆ Transport distance ★☆☆☆☆

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Widened and enlarged transverse pattern design for strong traction performance and driving performance;
- Stone ejectors at the bottom of the pattern groove ensure excellent self-cleaning perfomance;
- Special reformced ribs on the shoulders and a thickened sidewall design to protect the sidewall from external impact and scratches.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
12.00R20(K)	20	156/153	F	8.5	315	1136	23.0

Winter Series

CP150

Load performance ★★★★☆ Wear performance ★★★★★
Speed performance ★★★★☆ Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block specially designed for now road provides good control performance and abrasion resistance;
- Proper sipes design provides good griping performance and wet slip resistance when driving on snow road, improve tire's ice-breaking performance and driving safety;
- Ultra-wide of tread provides better driving performance on the road.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
315/70R22.5	18	151/148	L	9.00	312	1020	23.0

Winter Series

CP152

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Independent three-groove and four-block mixed pattern for more excellent running performance in snow;
- The snow pattern with wavy grooves by a unique compound formula with tread for outstanding snow grip performance and anti-skid performance;
- Suitable for all-wheel position use condition in Canada, North America and other markets.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	148/145	L	8.25	279	1065	21.0
11R24.5	16	149/146	L	8.25	279	1116	21.0

Winter Series

CP159

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Big block specially designed for now road provides good control performance and abrasion resistance;
- Proper steel disc design provides good griping performance and wet slip resistance when driving on snow road, improve tire' s ice-breaking performance and driving safety;
- Ultra-wide of tread provides better driving performance on the road. Big block specially designed for now road provides good control performance and abrasion resistance.

MAIN SIZES AND PARAMETERS

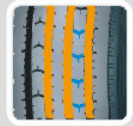
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
315/70R22.5	18	151/148	L	9.00	312	1020	24.0
315/80R22.5	20	157/154	L	9.00	312	1076	21.0

N.America Series

CPS228

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Four consecutive main grooves and three auxiliary fine grooves provide outstanding drainage and grip performance;
- Design of pattern block with V type grooves provide better driving steering and driving performance.

MAIN SIZES AND PARAMETERS

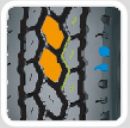
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	146/143	M	8.25	279	1054	14.5
295/75R22.5	16	146/143	M	9.00	298	1014	14.5
11R24.5	16	149/146	M	8.25	279	1104	13.5
285/75R24.5	16	147/144	M	8.25	283	1050	13.5

N.America Series

CPD728

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended



- Better traction and grip performance, Design of special pattern improves traction and grip performance; extra tread formula. with design of deeper pattern enhances wear-resisting performance, extends service life;
- Optimized design of shoulder offers better heat dispersion;
- Optimized design of the grooves bottom prevents the bottom from damaging by stone.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	146/143	M	8.25	279	1065	18.5
295/75R22.5	16	146/143	M	9.00	298	1020	18.5
11R24.5	16	149/146	M	8.25	279	1116	18.5
285/75R24.5	16	147/144	M	8.25	283	1056	18.5

N.America Series

CPT128

Load performance ★★★★☆
Speed performance ★★★★☆
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Design of oblique pattern block and zigzag grooves better to outstanding steering performance and stability as well as safe good handling performance on dry and wet road;
- Small steel disc better to heat dissipation and the applicability of different wheel location.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
11R22.5	16	146/143	M	8.25	279	1054	10.5
295/75R22.5	16	146/143	M	9.00	298	1014	10.5
11R24.5	16	149/146	M	8.25	279	1104	10.5
285/75R24.5	16	147/144	M	8.25	283	1050	10.5

N.America Series

CPS226

Load performance ★★★☆☆
Speed performance ★★★★★
Wear performance ★★★★★
Transport distance ★★★★★

Wheel position recommended
Wheel position allowed
Wheel position not recommended

- Tire pattern with central bamboo-shaped blocks and four grooves make low heat generation, fast heat dissipation, excellent high-speed performance and wet-slip resistance;
- Tire crown with high saturation and more grounding area by a special curve for excellent abrasion resistance and stable handling performance.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
255/70R22.5	16	140/137	L	7.50	255	930	12.5

Special Trailer Series

CP161

Load performance ★★★★☆ Wear performance ★★★★★
Speed performance ★★★★☆ Transport distance ★★★★★

Wheel position recommended | Wheel position allowed | Wheel position not recommended

- Special tire tread formula, provide better wear resistance performance , increase tire mileage. Broader tire shoulder design, decrease tires abrasion;
- Broader tires tread design, increase operation stability and safety;
- Use special tire bead design and strong framework material, increase tire's loading capacity.

MAIN SIZES AND PARAMETERS

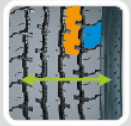
Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
ST235/85R16	14	132/127	M	6½J	235	806	9.0

Special Trailer Serise

CP182

Load performance ★★★★☆ Wear performance ★★★★★
Speed performance ★★★★☆ Transport distance ★★★★★

Wheel position recommended | Wheel position allowed | Wheel position not recommended



- Special tire tread formula, provide better wear resistance performance , increase tire mileage;
- Broader tire shoulder design, decrease tires abrasion;
- Broader tires tread design, increase operation stability and safety;
- Use special tire bead design and strong framework material, increase tire's loading capacity.

MAIN SIZES AND PARAMETERS

Sizes	Ply	Load index	Speed level	Standard rim	Section width (mm)	Outer diameter (mm)	Design of tread depth (mm)
ST225/75R16	12	121/117	L	6J	223	719	9.0
ST235/80R16	14	129/125	M	6½J	235	782	9.0

ANALYSIS OF COMMON DAMAGES OF TBR TIRES

TIRE CROWN DAMAGES

Tire Crown Pattern Breaking Damage

Steering firstly while vehicle is motionless during starting.

Tire Crown Impact Blast

Impact blast is caused by the impaction of foreign object on the tread when the tire pressure is high.

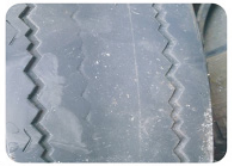
Tire Crown Abrasion Under Low Air Pressure

Tire pressure is low and the tread is embedded into the tire. Because the carcass is tightened by the steel cord in the steel belt, only small part of the tread is embedded into the tire and the rubber pattern in the tread is deformed and rubbing each other, which will cause such abrasion.

Eccentric Wear of Tread

The wear, deformation and displacement of the mechanical parts make the camber d the vehicle being changed, or the repairing and/or calibration of vehicle is not correct, which makes the tread not be vertical to the road surface so causes the eccentric abrasion. This kind of wear is fast.

Tread Wear Under High Air Pressure



The air pressure is high, so the grounding area of the tire is small, which will cause the serious wear of tread center.

Dot Wear

It is caused when tread is punctured by sharp objects such as blot, nail, etc.

TIRE SHOULDER DAMAGES

Puncture and Delamination

The deformation in radial direction on the radial tire is big, so it may be scrapped or punctured by the object in the rough road, which may cause the penetration of muddy water or sands. if they are not found or treated in time, it will cause the delamination by the rusting of the exposed steel cords in the damaged area.

Shoulder Cut

When driving, the tire is cut by the sharp object such as the stone and metal parts or by the embedded parts of suspension plates, etc. At the same time, it may cut and damage the shoulder or damage the steel cords at the end of the steel belt, or it may be caused by the tire burst.

Shoulder Damage & Pattern Block Dropping Off

Tire shoulder is pushed and scratched by the objects such as the Roadbed, etc. or try to pass in force or skidding to start under heavy load, etc, which may cause the chunking of the tire shoulder.

BEAD DAMAGES

Rim Cut

When mounting the tire, the rim is not suitable or t is not well aligned, the guard ring is deformed and it cuts the beads section which will cause such damage.

Rim Break

Because of rim fatigue and nonstandard wheel rim, as well as high air pressure of tire and badly overloading, wheel rim gets widely break so leads to wheel rim exposure.

Flange Cut

The rim flange is cracked, the bead section does not have the pressure from rim flange, under the pressure of the inner force, partial of the bead is embedded, and it is damaged by the sharp flange cracking when travelling.

SIDEWALL DAMAGES

Chain Burst

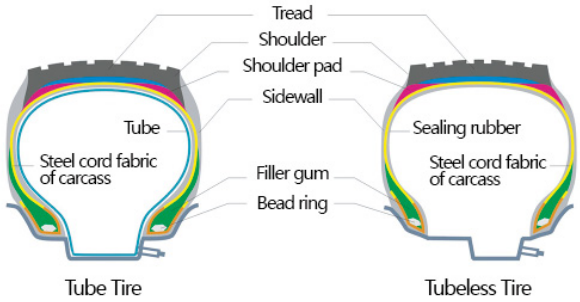
When using the tire under low pressure and with heavy load, the carcass fabric cords are fatigued and broken, which will cause the chain burst.

Side Wall Scratch

It is caused by the puncture or scraping of the object when using the tire.

Foreign Material Between Side Wall

When vehicle is traveling with twin tires, there are some foreign materials between the two tires, where the steel cords of the sidewall may deform and cause such damage.



COMMON CONVERSION OF TUBLESS TIREIN THE MARKET

Tube Tire	Tubeless Tire (British System)	Tubeless Tire (Metric System)
9.00R20	10R22.5	275/80R22.5
10.00R20	11R22.5	295/80R22.5\275/80R22.5
11.00R20	12R22.5	315/80R22.5\295/80R22.5
12.00R20	13R22.5	315/80R22.5

CORRESPONDING TABLE FOR TBR SIZE OF TUBELESS & TUBE TYPE

Tire sizes	O.D.	Common series	80 Sizes	75 Sizes	70 Sizes	65 Sizes/Single
6.50R16	750			205/75R17.5		
7.00R16	775			225/75R17.5	225/70R17.5	
				215/75R17.5		
7.50R16	805	8R17.5			245/70R17.5	
				235/75R17.5	225/70R19.5	
8.25R16	855	9.5R17.5			245/70R17.5	
					265/70R19.5	
					285/70R19.5	
9.00R16		10R17.5			265/70R19.5	
7.00R20		8R19.5				
7.50R20	935	8R22.5			255/70R22.5	
8.25R20	974	9R22.5			275/70R22.5	
9.00R20	1019	10R22.5		285/75R24.5		
10.00R20	1054	11R22.5	275/80R22.5	295/75R22.5	315/70R22.5	385/65R22.5
		11R24.5				
11.00R20	1085	12R22.5	295/8022.5	315/75R22.5		425/65R22.5
12.00R20	1125	13R22.5	315/80R22.5			445/65R22.5

CORRESPONDING TABLE FOR TBR PARAMETER AS EXCHANGE OF TUBELESS AND TUBE TYPE TIRES

Tire sizes	9.00R20–16 →	10R22.5–14
Dual load capacity	2650kg	2360kg
O.D.	1019mm	1019mm
S.W.	259mm	254mm

Tire sizes	9.00R20–16 →	275/80R22.5–16
Dual load capacity	2650kg	3000kg
O.D.	1055mm	1012mm
S.W.	259mm	276mm

Tire sizes	10.00R20–16 →	11R22.5–16
Dual load capacity	2630kg	2900kg
O.D.	1055mm	1054mm
S.W.	278mm	279mm

Tire sizes	10.00R20–16 →	295/80R22.5–18
Dual load capacity	2650kg	3150kg
O.D.	1055mm	1044mm
S.W.	278mm	298mm

Tire sizes	9.00R20–16 →	10R22.5–14
Dual load capacity	2650kg	2360kg
O.D.	1019mm	1019mm
S.W.	259mm	254mm

Tire sizes	9.00R20–16 →	275/80R22.5–16
Dual load capacity	2650kg	3000kg
O.D.	1055mm	1012mm
S.W.	259mm	276mm

Tire sizes	10.00R20–16 →	11R22.5–16
Dual load capacity	2630kg	2900kg
O.D.	1055mm	1054mm
S.W.	278mm	279mm

Tire sizes	10.00R20–16 →	295/80R22.5–18
Dual load capacity	2650kg	3150kg
O.D.	1055mm	1044mm
S.W.	278mm	298mm

MAINTENANCE OF TUBELESS TIRE

Tubeless tire does not have the tube inside, where a rubber layer with good airtightness is cured into the internal chamber of the tire, which will work as the function of tube. Tubeless tire is the trend of the development of tire, correct maintenance will improve the service life of tire.

1. Change the tire position at regular intervals. Different fatigues and abrasions will be on the tires in different positions, so the position must be Changed. For truck tires, normally the position should be changed when running about 12,000 km.

2. Keep the chassis at good technical condition. The conditions such as the misalignment of the front wheel and the deformation of the rims, etc. will quicken the abrasion of the tire.

3. Pneumatic pressure must be inspected every month or for each long-distance travel, including the pressure of the spare tire. Tire pressure must be checked in the cold condition of the tire, namely it should be inspected after parking at least for 3 hours. If necessary, tire pressure should be inflated to the specified pressure on the nameplate of the vehicle. Because temperature will increase during driving, it is normal that tire pressure is higher than the pressure in cold condition. If you decrease the pressure in hot condition, the pressure will be insufficient when tire is cold. Additionally, the pressure must be checked by high-quality pressure gauge, please do not always believe your eyes.

4. 0ther Precautions

(1) Please check tire pressure in common temperature.

(2) Please do not pull out the punctured object Immediately.

(3) It is forbidden to splash water on the hot tire.

(4) it is forbidden to deflate the hot tire.

(5) When inflating tubeless tire, we suggest to use air pump with air filter, and nitrogen is the best selection.