







## Product overview

		Steer	Drive	Trailer
Motorway		HSL	HDL HD HYBRID	HTL
Allround		HSR LSR	HDR HD HYBRID LDR	HTR
On/Off		HSC LSC	HDC	HTC
Off		HSO HCS MIL T9 LCS	HDO	
City		HSU	HDU	
Winter		HSW HSU M+S HSW COACH	HDW	HTW

682BE.us 2010.02

Continental Reifen Deutschland GmbH  
Büttnerstraße 25  
30165 Hannover  
Germany

[www.continental-truck-tires.com](http://www.continental-truck-tires.com)  
[www.continental-corporation.com](http://www.continental-corporation.com)



## Commercial Vehicle Tires Technical Data Book

## Imprint

Technical data manuals for other tire groups:

**Tires for passenger cars and vans:**

Technical Data Book Car, 4x4, Van Tires

**Industrial-tires:**

Tire Service Data Industrial Vehicles

**Motorcycle tires:**

Technical Manual Motorcycle tires

The content of this publication is provided for information only and without responsibility. Continental Reifen Deutschland GmbH makes no representations about the accuracy, reliability, completeness or timeliness of the information in this publication. Continental Reifen Deutschland GmbH may, in its sole discretion, revise the information contained herein at any time without notice. Continental Reifen Deutschland GmbH's obligations and responsibilities regarding its products are governed solely by the agreements under which they are sold. Unless otherwise agreed in writing, the information contained herein does not become part of these agreements.

This publication does not contain any guarantee or agreed quality of Continental Reifen Deutschland GmbH's products or any warranty of merchantability, fitness for a particular purpose and noninfringement. Continental Reifen Deutschland GmbH May make changes in the products or services described at any time without notice. This publication is provided on an "as is" basis. To the extent permitted by law, Continental Reifen Deutschland GmbH makes no warranty, express or implied, and assumes no liability in connection with the use of the information contained in this publication. Continental Reifen Deutschland GmbH is not liable for any direct, indirect, incidental, consequential or punitive damages arising out of the use of this publication. Information contained herein is not intended to announce product availability anywhere in the world.

The trademarks, service marks and logos (the Trademarks) displayed in this publication are the property of Continental Reifen Deutschland GmbH and/or its affiliates. Nothing in this publication should be construed as granting any license or right to the Trademarks. Without the express written consent of Continental Reifen Deutschland GmbH the use of the Trademarks is prohibited.

All text, images, graphics and other materials in this publication are subject to the copyright and other intellectual property rights of Continental Reifen Deutschland GmbH and/or its affiliates. Continental Reifen Deutschland GmbH owns the copyrights in the selection, coordination and arrangement of the materials in this publication. These materials may not be modified or copied for commercial use or distribution.

Copyright © 2010 Continental Reifen Deutschland GmbH  
 All rights reserved.

Unfavourable weather conditions also accelerate the ageing process as well as the storage conditions that were covered in the previous section.

An expert should always be called in to make a qualified judgment on the tires.

Regrooving of the tread pattern – usually when there are 2 or 3 millimetres of tread depth left – should be carried out only by qualified experts when the word "REGROOVABLE" is displayed on the tire sidewall.

### Tire repairs

Tire damage may initially be just a question of damage to the outer rubber: however, this apparently superficial damage can eventually extend down to, or into, the tire's reinforcing materials (casing/belt). Therefore no time should be lost in taking the tire to a specialist for assessment as soon as any external damage is detected.

Damage to the reinforcing materials, for instance due to a nail puncture or a deep cut, is particularly dangerous because dirt and moisture may penetrate during the time between when the damage occurred and when it was detected. This may even result in more serious damage to the reinforcing materials. Damage to the inside of a tire can also cause a slow puncture.

The tire is then driven underinflated and consequently subjected to excessive strain. All these factors can make a tire non-repairable by the time the damage is finally discovered. If the tire is repaired regardless, even if it is repaired by a reputable tire specialist, it is possible that tire failure can still occur as a result of an overstrained area, other than that originally damaged.

This is why each tire must be carefully inspected by a tire expert before it is repaired. For only a specially trained person can decide whether it is possible to repair the tire and whether the tire will be capable of delivering safe performance after the repair. Repairs must be carried out by an authorized workshop, which is then responsible for inspecting the tire and for doing the job properly.

Repairs to the wheels are forbidden.

## Terms and Explanations

### Load/Speed Index

The nominal load carrying capacity of a tire is expressed as the Load Index (LI) and is expressed in kg. In addition to this, a reference speed is also determined in connection with the nominal load carrying capacity (refer to speed symbol and reference speed).

### Speed symbol and reference speed (km/h)

Each speed symbol is assigned a reference speed in km/h or mph. The tire speed is assigned the nominal load carrying capacity of the tire.

### PR

„Ply-rating“ (also called „PR“), is an international designation for the solidity of the tire casing. In the past, the tire load-carrying class was only expressed by means of a PR number. The exact designation of load carrying capacity is nowadays expressed as a numerical code, namely the Load Index (or LI).

### TT/TL

Tubeless – tires without inner tube

Tube Type – tires with inner tube

### Minimum distance between rim centres

Adherence to the minimum distance between rim centres ensures the fault-free performance of two tires in accordance with the ETRTO Standard without chains, when mounted dually (refer also to page 5).

### Explanation of footnotes

data acc. to DIN 7805/4, WdK Guidelines 134/2, 142/2, 143/14, 143/25

1) Load index single/dual wheel fitment and speed symbol

2) TT = Tube Type, TL = Tubeless

3) For tire pressure of 8.0 bar (116 psi) and over use valve slit cover plate

\* in preparation

### Maximum standard value in service

This is the maximum permissible width in accordance with the ETRTO Standard. It includes dynamic deformations are not included.

### Actual value

Width and external diameter as provided by the manufacturer

### Stat. radius

Distance from the centre of the wheel to the road surface

### Rolling circumference

The distance covered on each revolution of the tire

### Tire fitment

Describes single (S) or dual fitment (D)

### Load carrying capacity in kg per axle at an inflation pressure in bar or psi

Axle load carrying capacities with single or dual fitment at an adjusted inflation pressure in bar and psi (1 bar ~ 14.5 psi)

# Contents

## General hints

Safety remarks	4
Operating instructions (DIN 7804/7805 and ECE-R 54)	5
Tire designations	6
Units of measurement and definition (DIN 70020)	9
Sidewall designations	10
Load capacities for various maximum design speeds	12
Air pressure multiplier for increased load capacity due to maximum design speed	14
Load capacities of tires in special cases (DIN 7804/7805 and WdK-LL 140)	15
Truck chassis with crane superstructure (mobile crane)	16
Bus Tire fitment	17
Wheels and rims	18

## Commercial Vehicle Tires

Customer Segments Goods   People   Construction	20
Tread pattern overview Goods   People   Construction	26
M+S-Designation	36

### Commercial Vehicle Tires 17.5", 19.5", 22.5"

Specifications and load capacities	38
Regrooving recommendations	66

### Commercial Vehicle Tires 15", 16", 20", 24"

Specifications and load capacities	92
Regrooving recommendations	98

Maintenance and care	108
----------------------	-----

## Safety remarks

The extensive technical data and other information relating to tires and accessories on the following pages have been compiled to reflect as accurately and completely as possible the current state of development.

If this "Technical Data Book" is to be used as a basis for particularly important decisions, further data covering relevant standards such as ETRTO<sup>1)</sup>, DIN<sup>2)</sup> and WdK<sup>3)</sup> can also be called upon. Special information can, of course, also be obtained from us at the following address:

**Continental Reifen Deutschland GmbH**  
**P.O. Box 169**  
**30001 Hannover**  
**Germany**

This service brochure is of informative character. All liability is excluded, whether for damage or for other legal reasons (see also page 2).

All types are in compliance with DOT<sup>4)</sup> regulations and are marked accordingly.

Since 1982 all tires have been typed in accordance with ECE<sup>5)</sup> directive 54 and thus also in accordance with the current EU<sup>6)</sup> tire directives.

The data provided in this guide based on average operating conditions as normally found in central Europe.

Please contact us with respect to operating conditions differing from the above, e.g. for applications outside Central Europe.

The tire sizes given in this guide are not always identical to the ones available in the size range.

Lower inflation pressure, greater loads or higher speeds than those recommended by the vehicle or tire manufacturer shorten the service life of the tire.

**These instructions must be followed if vehicle safety – and that of those mounting tires – is to be guaranteed. This applies above all to instructions regarding tire pressure.**

Failure to comply with these instructions could result in tire damage that may even lead to tire blow-outs under certain circumstances. This, in turn, could cause traffic accidents involving damage to property and/or personal injury (see also page 5).

## Operating instructions (DIN 7804/7805 and ECE-R 54)

### Load capacity and speed

When determining the minimum tire size necessary for the axle of a vehicle, the authorized weight and the maximum design speed of the vehicle should always be used as a basis. Trailers first coming into service on or after January 1, 1990 must be equipped with tires suited for maximum speeds of at least 100 km/h, unless the trailer is clearly marked for a lower speed. The so-called "tolerance catalogue" must also be taken into consideration here. Nominal load capacity = 100% load, as the load index also indicates \*).

### Reference speed

This is the speed assigned as per nominal load capacity of the tire. The load capacity can be exceeded when the vehicle, due to its construction, has a lower maximum speed and vice versa (see the tables on page 12 and 13).

### Inflation pressure

The inflation pressures indicated in the tables are minimum values given for reference purposes. All inflation pressures apply to the "cold" tire, i.e. the state in which the tire is in after having stood outdoors for several hours, not exposed to intense sunlight.

### M + S tires

May be mounted on commercial vehicles whose construction allows for a higher maximum speed than approved for the tire if the tire's lower approved speed is clearly posted in the vehicle in the driver's field of vision (e.g. sticker on the instrument panel).

### Mixed fitment

(radial/crossply) While it is allowed for a vehicle weighing more than 2.8t to be fitted axlewise with tires of different construction, it is recommended that tires of the same construction be mounted in all wheel positions.

### Rims

Only the specified rims may be mounted on new commercial vehicles series. Tapered bead seat rims with a diameter of 16" or less should be equipped with safety shoulders (e.g. round hump) if tubeless radial tires are fitted on them. The rim sizes printed in bold type in the table from on page 38 are optimal Continental sizes with respect to service life, wear pattern and durability.

### Wheels

The load capacity must be adequate in all cases.

1) ETRTO - The European Tyre and Rim Technical Organisation, Brussels  
 2) DIN - Deutsches Institut für Normung, Berlin (German Institute for Standardization)  
 3) WdK - Wirtschaftsverband der deutschen Kautschuk-Industrie, Frankfurt/Main  
 4) DOT - Department of Transportation  
 5) ECE - Economic Commission for Europe (UN institution in Geneva)  
 6) EU - European Union, previously EEC

\*) See table on page 6

## Tire designations

### Load indices (LI)

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
19	77.5	50	190	81	462	112	1120	143	2725	174	6700
20	80	51	195	82	475	113	1150	144	2800	175	6900
21	82.5	52	200	83	487	114	1180	145	2900	176	7100
22	85	53	206	84	500	115	1215	146	3000	177	7300
23	87.5	54	212	85	515	116	1250	147	3075	178	7500
24	90	55	218	86	530	117	1285	148	3150	179	7750
25	92.5	56	224	87	545	118	1320	149	3250	180	8000
26	95	57	230	88	560	119	1360	150	3350	181	8250
27	97.5	58	236	89	580	120	1400	151	3450	182	8500
28	100	59	243	90	600	121	1450	152	3550	183	8750
29	103	60	250	91	615	122	1500	153	3650	184	9000
30	106	61	257	92	630	123	1550	154	3750	185	9250
31	109	62	265	93	650	124	1600	155	3875	186	9500
32	112	63	272	94	670	125	1650	156	4000	187	9750
33	115	64	280	95	690	126	1700	157	4125	188	10000
34	118	65	290	96	710	127	1750	158	4250	189	10300
35	121	66	300	97	730	128	1800	159	4375	190	10600
36	125	67	307	98	750	129	1850	160	4500	191	10900
37	128	68	315	99	775	130	1900	161	4625	192	11200
38	132	69	325	100	800	131	1950	162	4750	193	11500
39	136	70	335	101	825	132	2000	163	4875	194	11800
40	140	71	345	102	850	133	2060	164	5000	195	12150
41	145	72	355	103	875	134	2120	165	5150	196	12500
42	150	73	365	104	900	135	2180	166	5300	197	12850
43	155	74	375	105	925	136	2240	167	5450	198	13200
44	160	75	387	106	950	137	2300	168	5600	199	13600
45	165	76	400	107	975	138	2360	169	5800	200	14000
46	170	77	412	108	1000	139	2430	170	6000	201	14500
47	175	78	425	109	1030	140	2500	171	6150	202	15000
48	180	79	437	110	1060	141	2575	172	6300	203	15500
49	185	80	450	111	1090	142	2650	173	6500	204	16000

## Tire designations

In the past the tire load capacity category was indicated solely by a PR number.

Now a numerical code – the load index (LI) – is used to exactly indicate the tire's load carrying capacity. See also page 6 and 8.

A speed symbol (SI) is used to designate the speed rating of the tire, as shown in the representation below.

The use of the LI and SI was prompted by the introduction of ECE\*) regulation no. 54 and the EU tire directive for Europe (in force as of January 1, 1993), according to which pneumatic tires intended for road use at speeds in excess of 80 km/h must carry an operational designation comprising LI (single/dual) and SI. Alongside the nominal operational designation a tire may also bear an additional operational designation, e.g. with a lower LI and an SI for higher speeds. These specifications have to be encircled.

Example:

315/70 R 22.5 152/148 L

An uncoded maximum load-capacity and tire-pressure data in lbs (1 lbs = 0.454 kg) and psi (pounds per square inch - 1 bar = 14.5 psi) may also be moulded into the tire.

These specifications form part of the designation according to US Safety Regulation FMVSS 119\*\*), which covers all new pneumatic tires for light trucks, trucks, buses and trailers intended for use on public highways as well as motorcycle tires. Canada and Israel also use this specification.

### Date of manufacture

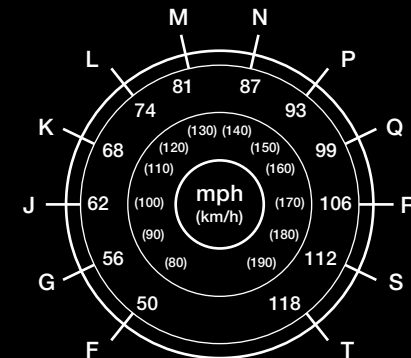
The last 3 digits of the DOT ID no. indicate the week and year of manufacture. For the years 1990 to 1999 a triangle is placed after these three digits (optional supplementary information).

e. g. DOT XXXX XXXX

### From 2000

e. g. DOT XXXX XXXX

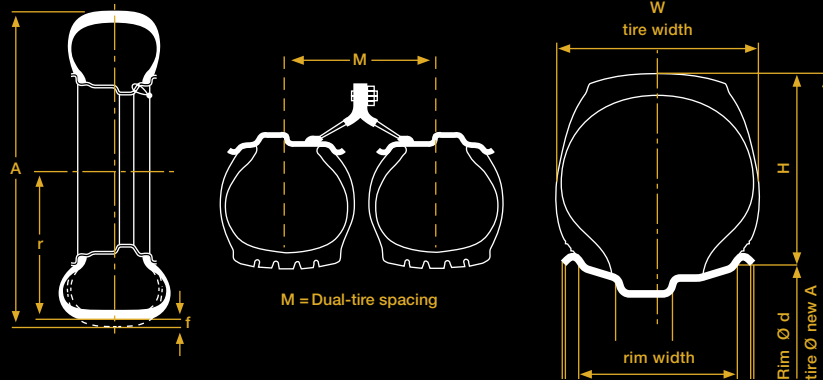
### Speed symbols (SI)



\*) ECE = ECONOMIC COMMISSION FOR EUROPE, UN institution in Geneva

\*\*) FMVSS = Federal Motor Vehicle Safety Standard

## Tire designations



A = Outer diameter on the tire  
r = static radius  
f = deflection under load

W and Ø new when using the measuring rim

Vehicle tire group	Example of designation		Example comprises details of		
	Tire size <sup>1)</sup>	Service <sup>2)</sup> description	Tire width W	H:W %	Rim dia code d
Light truck	185 R 14 C	102/100 N	185 mm	~ 90	14
	195/75 R 16 C	107/105 N	195 mm	75	16
Truck	12 R 22.5	152/148 L	300 mm	~ 90	22.5
	315/80 R 22.5	156/150 L (154/150 M) <sup>3)</sup>	315 mm	80	22.5
	12.00 R 20	154/150 K	300 mm	100	20
Trailer	365/80 R 20	160/- K	365 mm	80	20
	385/65 R 22.5	160/- K	385 mm	65	22.5
Bus	275/70 R 22.5	148/145 J	275 mm	70	22.5
	295/80 R 22.5	152/148 M	295 mm	80	22.5

- 1) "R" = radial design  
"C" = light truck (van) tire with LI for single tires = 121 and below, see also page 5
- 2) Service description = load index for single/dual tires plus speed symbol (see also tables on following pages)
- 3) Supplementary service description

## Units of measurement and definition (DIN 70020)

As a matter of principle the technical data in the tables always complies with the international standards as specified by ISO and the ETRTO. Further details such as other tire sizes or designs, plus the static radius and the rolling circumference comply with DIN/WdK Guidelines.

**Lengths**  
are given in millimetres (mm).

**Rim width**  
The linear distance between the flanges of the rim.

**Section height**  
Half the difference between the overall diameter and the nominal rim diameter.

**Tire width**  
The section width of an inflated tire mounted on its theoretical rim and indicated in the tire size designation.

**Overall diameter**  
The diameter of an inflated tire at the outermost surface of the tread.

**Nominal diameter**  
It is a size code figure for reference purposes only, as indicated in the tire and rim size designation.

**Inflation pressure**  
tire inflation pressure is given in Bar based on cold tire.

**Outer diameter New <sup>\*)</sup>**  
is a nominal size which refers to the tread centre.

**Max. outer diameter in service**  
is the maximum diameter permitted in the tread centre as a result of permanent growth during tire use. Dynamic deformations are not included.

**Cross-section width New <sup>\*)</sup>**  
is a nominal size which refers to the smooth tire wall.

**Max. operational width**  
is the maximum permitted width. This includes scuff ribs, decorative ribs, lettering and permanent growth during use. Dynamic deformations are not included.

**Static radius**  
is the distance from the tire centre to the ground level. Measurements are checked on fitted-tires inflated to the inflation pressure specified in DIN 70020 Part 5.

**Rolling circumference**  
is the distance covered by each revolution of the tire.

**Load capacities**  
are given in kgs (weight in the sense of mass)

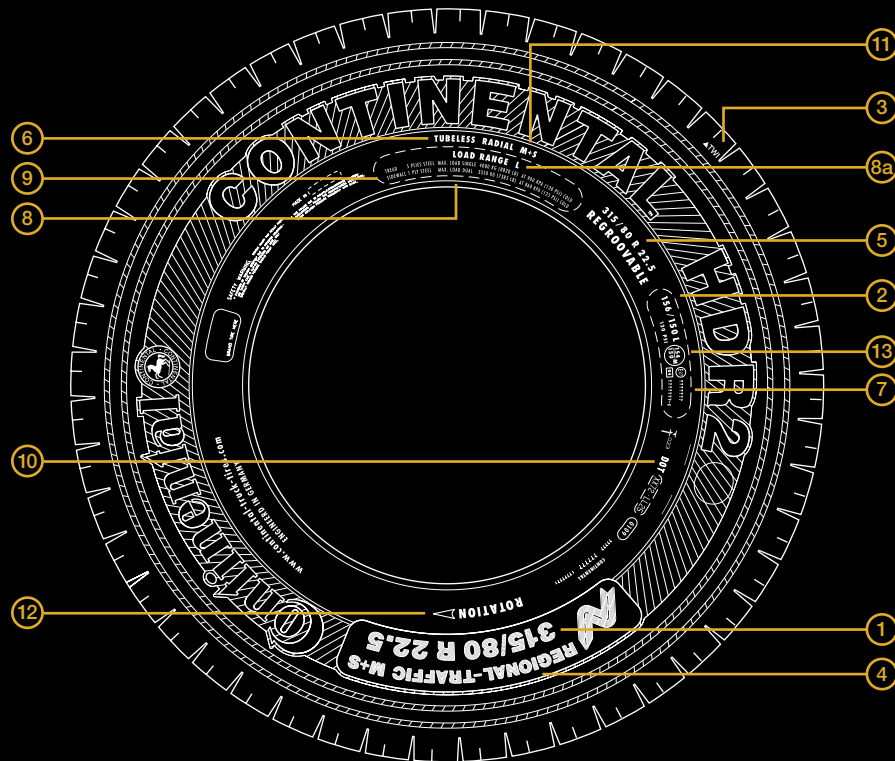
**Dual-tire spacing**  
Maintaining the minimum spacing distance ensures that the two tires in a dual fitment arrangement function without any infringing the ETRTO standards providing the tires are not fitted with chains.

In the course of development, a variety of designations for tire dimensions have been introduced, some of which are used concurrently. The following combination is most frequently used: tire width in mm, then H : W (height : width) in % and finally the codes for the tire construction – for example R for "radial" and "-" for "crossply" – and the nominal rim diameter as code.

When planning vehicle wheel space, automotive designers must proceed on the basis of the maximum values for tire width and outer diameter, taking into account the tire's static and dynamic deformation. In this way they ensure that all standardly approved tires will fit in all cases. If this is not possible in exceptional cases, appropriate measures are to be taken to exclude any possible risk to safety.

<sup>\*)</sup> Construction size

## Side wall designations



- ① **Size designation**  
315 = tire width in mm  
80 = aspect ratio (section height to section width) = 80%  
R = radial construction  
22.5 = rim diameter (code)
- ② **Service description**  
Consisting of  
156 = load index for single fitment  
150 = load index for dual fitment  
L = code letter for speed Rating
- ③ **TWI**  
Tread Wear Indicator
- ④ **Recommended application**  
only Continental Truck Tires
- ⑤ **Regroovable**  
The manufacturer has designed the tire for regrooving
- ⑥ **Tubeless**  
**Tube Type**
- ⑦ **E** = tires complies with value set forth in ECE-R 54  
**4** = country code for the country in which the approval number was issued (here: 4 = Netherlands)
- ⑧ **US load designation**  
Of single/dual fitment and indication of max. inflation pressure in psi (1 bar = 14.5 psi)
- ⑧a **Load range**  
In accordance with US standard
- ⑨ **Data as per US safety standard on inner construction or number of plies, in this case**  
**Tread:** under the tread there are five steel cord plies (including carcass)  
**Sidewall:** viewed from the side there is one steel cord ply (in this case the carcass ply)
- ⑩ **DOT**  
= U.S. Department of Transportation (responsible for tire safety standards)
- ⑪ **M+S**  
Designation for winter use suitability (Mud & Snow)
- ⑫ **Rotation**  
Recommended direction of rotation
- ⑬ **Single Point**  
Alternative load and speed

The tire designation markings satisfy both the US standard (FMVSS 119) and the European standard (ECE-R 54).

### Explanation

- DOT = Department of Transportation
- ETRTO = The European Tire and Rim Technical Organisation, Brussels
- ECE = Economic Commission for Europe (UN Institution in Geneva)
- FMVSS = Federal Motor Vehicle Safety Standard

## Load capacities

for various maximum design speeds

Maximum in km/h (determined by vehicle design)	C-tires with load index 121 (1450 kg) or less as single fitments Approved load capacity in % of the nominal load capacity <sup>2)</sup> equals the load index for reference speed				
	L 120	M <sup>*)</sup> 130	N <sup>*)</sup> 140	P <sup>*)</sup> 150	Q-T 160-190
160	-	-	-	-	100
155	-	-	-	-	100
150	-	-	-	100	100
140	-	-	100	100	100
138	-	-	100	100	100
136	-	-	100	100	100
134	-	-	100	100	100
132	-	-	100	100	100
130	-	100	100	100	100
128	-	↑	100	100	100
126	-	↑	100	100	100
124	-	↑	100	100	100
122	-	↑	100	100	100
120	100	↑	100	100	100
118	↑	↑	100.5	↑	↑
116	↑	↑	101	↑	↑
114	↑	↑	101.5	↑	↑
112	↑	↑	102	↑	↑
110	↑	↑	102.5	↑	↑
108	↑	↑	103	↑	↑
106	↑	↑	103.5	↑	↑
104	↑	↑	104	↑	↑
102	↑	↑	104.5	↑	↑
100	↑	↑	105	↑	↑
95	↑	↑	106.5	↑	↑
90	see column N	see column N	107.5	see column N	see column N
85	↑	↑	108.5	↑	↑
80	↑	↑	110	↑	↑
75	↑	↑	111	↑	↑
70	↑	↑	112.5	↑	↑
65	↑	↑	113.5	↑	↑
60	↑	↑	115	↑	↑
55	↑	↑	117.5	↑	↑
50	↑	↑	120	↑	↑
45	↑	↑	122	↑	↑
40 <sup>1)</sup>	↑	↑	125	↑	↑
35 <sup>1)</sup>	↑	↑	129	↑	↑
30 <sup>1)</sup>	↑	↑	135	↑	↑
25 <sup>1)</sup>	↑	↑	142	↑	↑
20 <sup>1)</sup>	↑	↑	150	↑	↑
15 <sup>1)</sup>	↑	↑	160	↑	↑
Application restricted speed	↑	↑	↑	↑	↑
10 <sup>1)</sup>	↑	↑	175	↑	↑
5 <sup>1)</sup>	↑	↑	190	↑	↑
Standstill <sup>1)</sup>	↑	↑	210	↑	↑

## Load capacities

for various maximum design speeds

Maximum in km/h (determined by vehicle design)	Tires with load index 122 (1500 kg) or more as single fitments Approved load capacity in % of the nominal load capacity <sup>2)</sup> equals the load index for reference speed						
	D 65	F 80	G 90	J 100	K 110	L 120	M 130
130	-	-	-	-	-	-	100
127.5	-	-	-	-	-	-	100
125	-	-	-	-	-	-	100
122.5	-	-	-	-	-	-	100
120	-	-	-	-	-	100	100
117.5	-	-	-	-	-	↑	100
115	-	-	-	-	-	↑	100
112.5	-	-	-	-	-	↑	100
110	-	-	-	-	100	↑	100
107.5	-	-	-	-	↑	↑	100
105	-	-	-	-	↑	↑	100
102.5	-	-	-	-	↑	↑	100
100	-	-	-	100	↑	↑	100
95	-	-	-	↑	↑	↑	101
90	-	-	100	↑	↑	↑	102
85	-	-	102	↑	↑	↑	103
80	-	100	↑	↑	↑	↑	104
75	-	102.5	↑	↑	↑	↑	105.5
70	-	105	↑	↑	↑	↑	107
65	100	107.5	↑	↑	↑	↑	108.5
60	100	↑	↑	↑	↑	↑	110
55	-	↑	↑	↑	↑	↑	111
50	102	↑	↑	↑	↑	↑	112
45	-	↑	↑	↑	↑	↑	113
40 <sup>1)</sup>	107	↑	↑	↑	↑	↑	115
35 <sup>1)</sup>	-	see column M	see column M	see column M	see column M	see column M	119
30 <sup>1)</sup>	116	↑	↑	↑	↑	↑	125
25 <sup>1)</sup>	-	↑	↑	↑	↑	↑	135
20 <sup>1)</sup>	140	↑	↑	↑	↑	↑	150
15 <sup>1)</sup>	150	↑	↑	↑	↑	↑	165
Application restricted speed	↑	↑	↑	↑	↑	↑	↑
10 <sup>1) 3)</sup>	165	↑	↑	↑	↑	↑	180
5 <sup>1) 3)</sup>	190	↑	↑	↑	↑	↑	210
Standstill <sup>1) 3)</sup>	225	↑	↑	↑	↑	↑	250

1) Dual-tires = 2 x single load capacity

2) A sign indicating the max speed must be attached to trailers restricted to speeds below 100 km/h (62 mph).

3) Ask the tire manufacturer about these applications.

<sup>\*)</sup> On M-, N- and P-tires can be interpolated in steps of 1.25 mph (2 km/h) from 87 mph (140 km/h) upwards.

Tires with SI ratings P and Q under full load at speeds of over 140 km/h should be inflated an extra 0.1 bar for every excess 10 km/h. No excess loads are applicable over 65 km/h for tires on heavy trailers (with laden weight > 3.5 t).

The load/speed variation given on this page do not apply to the additional service description (the so called Single Point).

See general notes on page 5.

This table is only applicable in conjunction with air pressure multiplier on page 14.

If applied please check dual spacing (dual tire contact) and rim status.



## Air pressure multiplier

for increased load capacity due to maximum design speed

Maximum speed in km/h (determined by vehicle type)	Air pressure multiplier for reference speed (speed index) of tire	
	G, J, K, L, M 90 km/h - 130 km/h	N, P, Q, R, S 140 km/h - 180 km/h
140		1
135		1
130	1	1
125	1	1
120	1	1
115	1	1.01
110	1	1.02
105	1	1.06
100	1	1.06
95	1	1.08
90	1	1.09
85	1	1.10
80	1	1.12
75	1.01	1.14
70	1.02	1.15
65	1.04	1.15
60	1.06	1.18
55	1.07	1.22
50	1.08	1.25
45	1.09	1.28
40	1.10	1.30
35	1.11	1.30
30	1.13	1.30
25	1.17	1.30
20	1.21	1.30
15	1.25	1.30
10	1.30	1.35
5	1.40	1.35
0	1.40	1.40

The multipliers cited are to be used for an operating pressure of up to 10 bar.

**Example:** In the case of a K-rated tire (110 km/h) and nominal inflated pressure of 7.5 bar, the inflation pressure can be increased to 8.85 bar if the vehicle's maximum design speed is set at 40 km/h (1.18 x 7.5 bar) to exploit an increased load capacity of 115% of nominal load capacity.

## Load capacities of tires in special cases

(DIN 7804/7805 and WdK-LL 140)

Case	Type of service	Approved load capacity as % of the nominal load capacity in the tables
1	<b>Special-service vehicles:</b> Fire-brigade vehicles with special superstructures, road flushers, road sweepers, garbage trucks, cherry-pickers, municipal service vehicles of a similar nature and other public utility vehicles.	110
2	<b>Commercial vehicles:</b> With special superstructures (concrete mixers, aircraft refuellers) used in local service with maximum service speeds not in excess of 60 km/h.	110
3	<b>Regular-service buses (M 3-Class II):</b> In urban service, with maximum service-related speeds of up to 60 km/h.	110
4	<b>Regular-service buses (M 3-Class I):</b> (see also DIN 7805) In urban and suburban service, if average speed does not exceed 40 km/h.	115
5	Tires on the front axle of trucks with facilities for snow removal (front-end snow plough/rotary snow plough and the like) at service-related speeds of 50 km/h 62 km/h	120 115
6	For internal use on aircraft refuellers at speeds of up to 30 km/h (inflation pressure + 15%, no reduction for dual fitment).	135
7	Caravans and other passenger-car trailers (only for C tires, see also WdK directive 195, page 3) for speeds of up to 100 km/h.	105

**Please note:** This chart is not applicable in conjunction with the charts on pages 12 or 13 in correspondence with the chart on page 14.

## Truck chassis with crane superstructure (mobile crane)

Tire size	PR	Single/dual fitment	Load capacity (kg) per axle and speed (km/h)								Tire pressure <sup>2)</sup> bar (psi)
			Statio-nary <sup>1)</sup>	10	20	50	65	70	75	80	
<b>10.00 R 20</b>	16	S D	16500	12000	10000	7700	7200	7000	6800	6700	<b>9.0</b> (131)
<b>11 R 22.5</b>			33000	24000	20000	14000	13000	12800	12400	12000	
<b>11.00 R 20</b>	16	S D	17900	13000	10800	8300	7800	7600	7400	7200	<b>10.0</b> (145)
<b>12 R 22.5</b>			35800	26000	21600	14800	14000	13600	13200	12800	
<b>12.00 R 20</b>	18	S D	20500	14750	12300	9200	8700	8550	8400	8250	<b>10.0</b> (145)
<b>13 R 22.5</b>			41000	29500	24600	16600	15700	15400	15200	14800	
<b>14.00 R 20</b>	18	S D	22500	16200	13500	10080	9675	9450	9225	9000	<b>8.0</b> (116)
			45000	32400	27000	18100	17400	17000	16600	16500	
<b>12.00 R 24</b>	20	S D	25000	18000	15000	11450	10675	10450	10280	10000	<b>10.0</b> (145)
			48700	35000	29200	20000	18700	18300	18000	17500	

1) When boom is swung out in unfavourable position

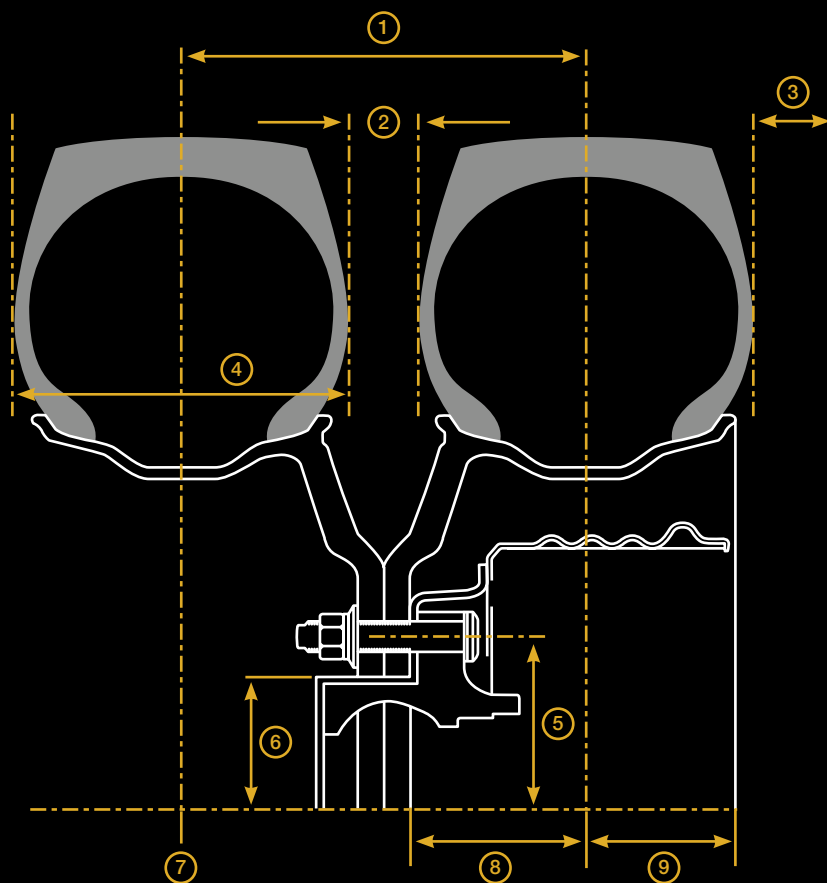
2) For inflation pressure of 8.0 bar (116 psi) and over use valve slit cover plate

## Bus tire fitment

Recommended inflation pressures for tires on town and country buses for various axle loads

Tire size	Ope-rating code	Load index	Single/dual fitment	Max. permitted axle weight (kg) for inflation pressure (bar) (psi) including +10% extra as per German Transport Association (DIN 7805) +15% extra as per German Transport Association (DIN 78 05)									
				4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
<b>10.00 R 20</b>	146/143	146 143	S D	3960 7195	4310 7830	4650 8450	4985 9060	5315 9660	5640 10250	5960 10830	6275 11405	<b>6590</b> <b>11970</b>	6900 12535
<b>385/55 R 22.5</b>	160/ -	160	S	5940	6465	6975	7480	7975	8460	8945	9415	<b>9885</b>	10350
<b>275/70 R 22.5</b>	148/145	148 145	S D	4160 7660	4525 8335	4885 8995	5235 9640	5580 10280	5925 10910	6260 11525	6590 12140	<b>6920</b> <b>12740</b>	7245 13340
<b>305/70 R 22.5</b>	150/148	150 148	S D	4425 8320	4810 9050	5195 9770	5570 10475	5935 11165	6300 11850	6655 12520	7010 13185	<b>7360</b> <b>13840</b>	7705 14490
<b>295/80 R 22.5</b>	152/148	152 148	S D	4685 8320	5100 9050	5505 9770	5900 10475	6290 11165	6675 11850	7055 12520	7430 13185	<b>7800</b> <b>13840</b>	8165 14490
<b>11 R 22.5</b>	148/145	148 145	S D	4160 7660	4525 8335	4885 8995	5235 9640	5580 10280	5925 10910	6260 11525	6590 12140	<b>6920</b> <b>12740</b>	7245 13340

## Wheels and rims



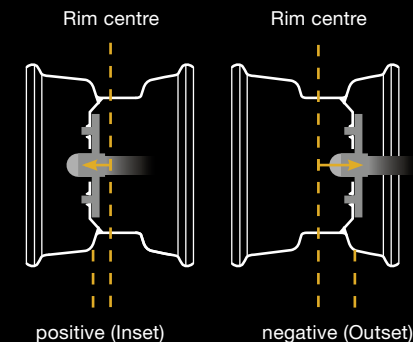
### Dual spacing

- ① dual spacing
- ② tire clearance
- ③ vehicle clearance
- ④ tire section width
- ⑤ bolt circle diameter
- ⑥ center hole diameter
- ⑦ tire center line
- ⑧ negative offset
- ⑨ backspace

### Offset

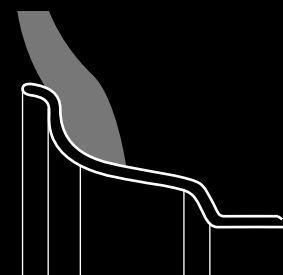
The offset is the distance from the centre of the wheel to the inside surface of the wheel disk on the hub. The wheel insertion depth can be positive, negative or zero.

The insertion depth not only ensures adequate space for the brake drums, it also determines drive characteristics, tracking width, steering swivel, pin offset and wheel bearing guidance. In the case of twin tire fitment, the insertion depth also influences the distance between centres.

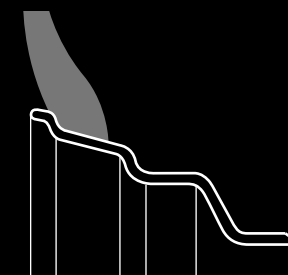


### There are three main types of rim for commercial vehicle tires:

One-piece well base rims for tubeless tires

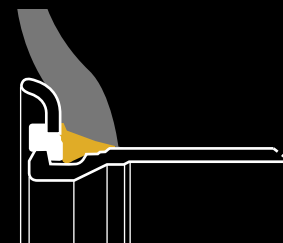


Standard and low-profile light trucks 14"-17"



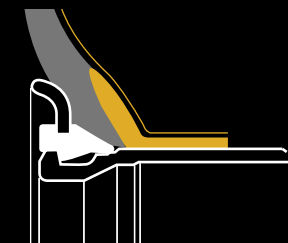
Standard and low-profile 17.5", 19.5", 22.5"

Multi-part flat base rims for tubeless tires



80-series tires 20"

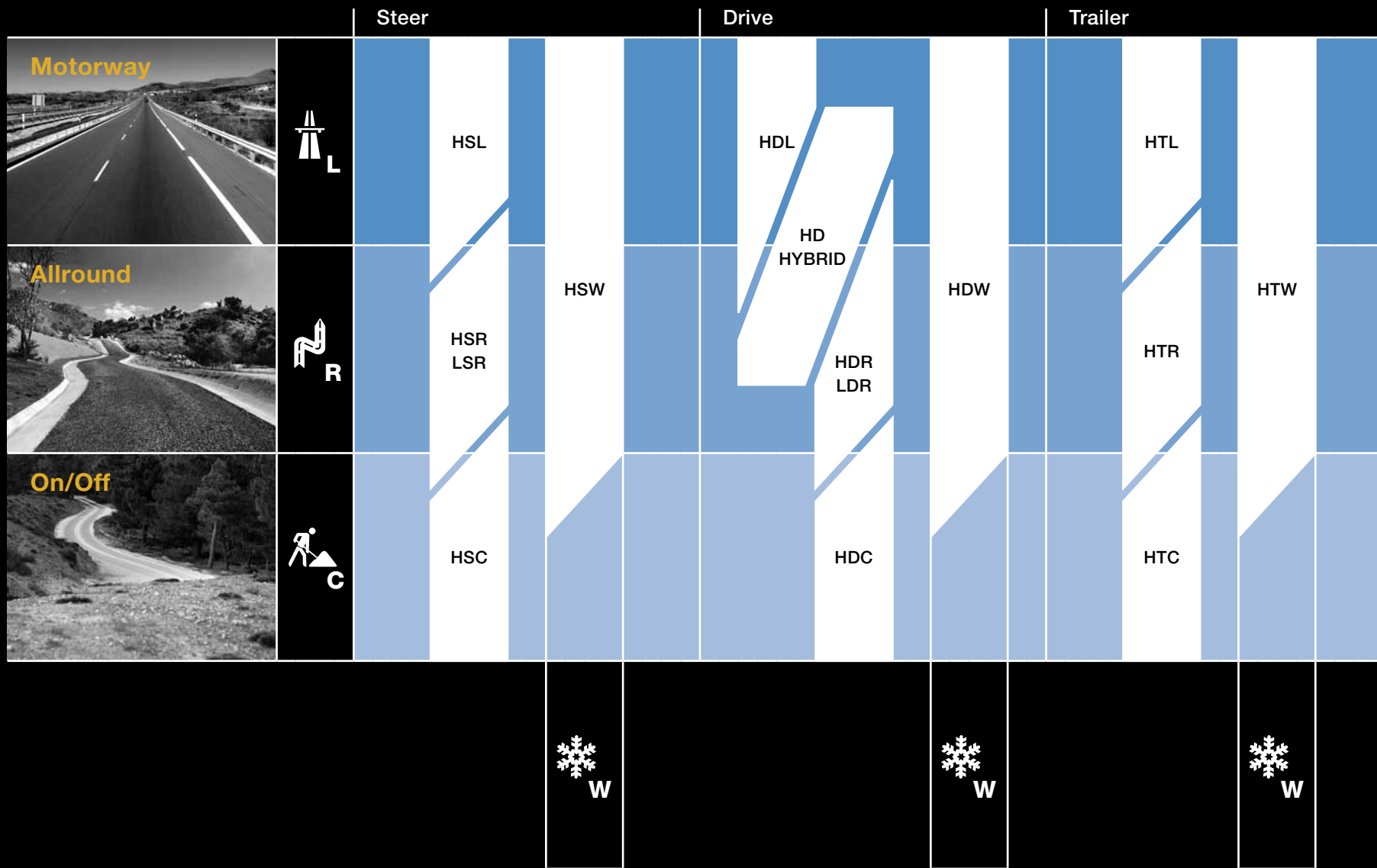
Multi-part flat base rims for tires with inner tubes



High profile ratio mainly 20"

Please contact rim manufacturers for detailed information regarding available rim sizes and variants.

# Customer Segment Goods



# Customer Segment People

		All axles		Drive		
<p><b>Motorway</b></p>	<p>L</p>	HSL	HSW COACH		HDL HD HYBRID	HDW SCAN
<p><b>Allround</b></p>	<p>R</p>	HSR	HSW HSW SCAN		HD HYBRID	HDW SCAN
<p><b>City</b></p>	<p>U</p>	HSU HSU M+S	HSW SCAN HSU M+S		HDU	HDW SCAN
		<p>W</p>		<p>W</p>		

# Customer Segment Construction

		Steer		Drive		Trailer
<p><b>Allround</b></p> <p>R</p>		HSR		HDR		HTR
<p><b>On/Off</b></p> <p>C</p>		HSC LSC LCS		HDC		HTC
<p><b>Off</b></p> <p>O</p>		HSO HCS MIL T9		HDO		

# Tread pattern overview Goods

## Steer

### Motorway



HSL 2



HSL 2  
50 / 55 series



HSL 1

## Drive



HDL 2



HDL 1



HDL 1  
SUPERDRIVE



HD HYBRID  
also for Allround

## Trailer



HTL 2



HTL 1  
19.5  
also as ContiRe



HTL 1  
22.5



HTL



HTL  
19.5

### Allround



HSR 2



HSR 2  
65 / 55 series



HSR 1  
55 / 65 series



HSR 1  
22.5



HSR 1  
19.5



HSR  
9 + 10 R 22.5



HSR  
11 + 12 R 22.5



HSR  
20 / 22 / 24



RS 415 N  
13 R 22.5



RS 63  
7.50 R 20  
8.25 R 20



LSR 1



LSR 1  
9.5 R 17.5  
10.0 R 17.5



HDR 2  
also as ContiRe



HDR +  
22.5  
also as ContiRe



HDR  
19.5 / 22.5



HDR  
20 / 22 / 24



LDR 1  
17.5



LDR 1  
9.5 R 17.5  
17.5



HTR 2  
also as ContiRe



HTR 1  
55 series  
also as ContiRe



HTR 1  
19.5



HTR  
also as ContiRe



HTR  
425/65 R 22.5  
445/65 R 22.5

# Tread pattern overview Goods

## Steer

### On/Off



M+S

HSC1



M+S

HSC1  
(alternative tread pattern)  
also as ContiRe



M+S

HSC  
20 / 22

## Drive



M+S

HDC1  
also as ContiRe



M+S

HDC

## Trailer



M+S

HTC1  
also as ContiRe



M+S

HTC  
19.5 / 22.5

## Winter



M+S

HSW 2 SCANDINAVIA



M+S

HSW 2 SCANDINAVIA  
55 / 65 series



M+S

HSW SCANDINAVIA  
65 series



M+S

HSW SCANDINAVIA  
also as ContiRe



M+S

HDW 2 SCANDINAVIA



M+S

HDW SCANDINAVIA  
also as ContiRe



M+S

HTW 2 SCANDINAVIA



M+S

HTW



M+S

HDW  
also as ContiRe



# Tread pattern overview People

## All axles

### Motorway



HSL 2



HSL 1

### Allround



HSR 2  
22.5



HSR 1  
22.5



HSR 1  
19.5



HSR  
11 + 12 R 22.5

### City



HSU 1  
also as ContiRe



HSU



HSU 1 M+S  
also as ContiRe

### Winter



HSW 2 COACH



HSW 2 SCANDINAVIA



HSW SCANDINAVIA  
also as ContiRe



HSU 1 M+S  
also as ContiRe

## Drive



HDL 2



HDL 1



HD HYBRID  
also for Motorway



HDU 1  
55 series



HDU  
also as ContiRe



HDW 2 SCANDINAVIA



HDW SCANDINAVIA  
also as ContiRe

# Tread pattern overview Construction

## Steer

### Allround



HSR2



HSR2  
65 / 55 series



HSR1  
55 / 65 series



HSR1  
22.5



HSR1  
19.5



HSR  
9 + 10 R 22.5



HSR  
11 + 12 R 22.5



HSR  
20 / 22 / 24

## Drive



HDR2  
also as ContiRe



HDR+  
22.5  
also as ContiRe



HDR  
19.5 / 22.5



HDR  
20 / 22 / 24

## Trailer



HTR2  
also as ContiRe



HTR1  
55 series  
also as ContiRe



HTR1  
19.5



HTR  
also as ContiRe



HTR  
425/65 R 22.5  
445/65 R 22.5

# Tread pattern overview Construction

## Steer

### On/Off



M+S

HSC1  
also as ContiRe



M+S

HSC1  
11 / 12 / 13 R 22.5



M+S

HSC  
20 / 22 series



M+S

LSC

## Drive



M+S

HDC1  
also as ContiRe



M+S

HDC

## Trailer



M+S

HTC1  
also as ContiRe



M+S

HTC  
19.5 / 22.5

### Off



M+S

HSO / T9



M+S

HSO SAND



M+S

HCS



M+S

MIL



M+S

LCS



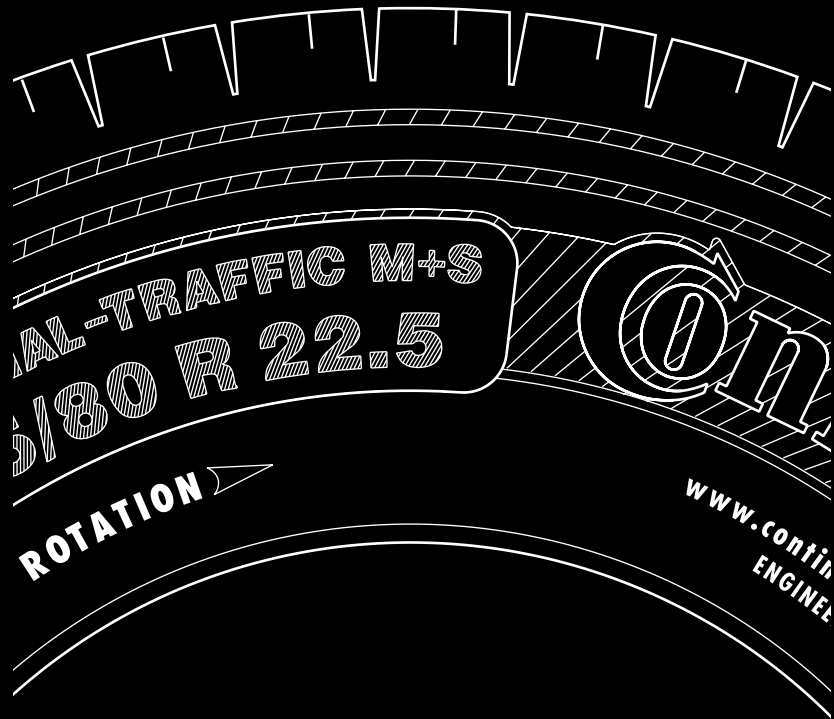
M+S

HDO

## M+S Designation

All Continental drive axle tires have the M+S designation. In addition, special steering axle and trailer tires also have this designation. The best traction on wintry roads is obtained by HSW-/HDW-Scandinavia tread

patterns. Below you find the most common products from our truck tire range. You find on the opposite page the complete truck tire articles that have an M+S designation.



### M+S Designated Tires

Steer	
Tire size	Tread pattern
265/70 R 17.5	LCS
9.5 R 17.5	LSC
245/70 R 19.5	HSW SCANDINAVIA
265/70 R 19.5	HSW SCANDINAVIA
285/70 R 19.5	HSW SCANDINAVIA
295/80 R 22.5	HSC 1, HSW SCANDINAVIA, HSW 2 SCANDINAVIA, HSW 2 COACH
315/80 R 22.5	HSC 1, HSW SCANDINAVIA, HSW 2 SCANDINAVIA
275/70 R 22.5	HSU 1 M+S, HSW
315/70 R 22.5	HSW SCANDINAVIA, HSW 2 SCANDINAVIA
385/65 R 22.5	HSC 1, HSW SCANDINAVIA, HSW 2 SCANDINAVIA
385/55 R 22.5	HSW SCANDINAVIA, HSW 2 SCANDINAVIA
10 R 22.5	T9
11 R 22.5	HSC 1
12 R 22.5	HSC 1
13 R 22.5	HSC 1
365/85 R 20	HCS
395/85 R 20	HCS
11.00 R 20	HSC
12.00 R 20	HSC, HSO SAND
14.00 R 20	HCS, HSO SAND, MIL
12.00 R 24	HSC, HSC 1
Drive	
Tire size	Tread pattern
205/75 R 17.5	LDR 1
215/75 R 17.5	LDR 1
225/75 R 17.5	LDR 1
235/75 R 17.5	LDR 1
245/75 R 17.5	LDR
265/70 R 17.5	LDR 1
8 R 17.5	LDR
8.5 R 17.5	LDR
9.5 R 17.5	LDR 1
10 R 17.5	LDR 1

Drive	
Tire size	Tread pattern
245/70 R 19.5	HDR
265/70 R 19.5	HDR
285/70 R 19.5	HDR
305/70 R 19.5	HDR
295/80 R 22.5	HDC 1, HDL 1, HDL 2, HDR+, HDR 2, HDW, HDW SCANDINAVIA, HDW 2 SCANDINAVIA, HSW 2 COACH, HD HYBRID
315/80 R 22.5	HDC 1, HDL 1, HDL 2, HDR+, HDR 2, HDW, HDW SCANDINAVIA, HDW 2 SCANDINAVIA, HD HYBRID
255/70 R 22.5	HDR
275/70 R 22.5	HDR, HDU, HSU 1 M+S, HDW SCANDINAVIA
305/70 R 22.5	HDR
315/70 R 22.5	HDL 1, HDL 2, HDR+, HDR 2, HDW SCANDINAVIA, HDW 2 SCANDINAVIA, HD HYBRID
295/60 R 22.5	HDR+, HDL 2, HD HYBRID
315/60 R 22.5	HDR+, HDL 2, HD HYBRID
385/55 R 22.5	HDC, HDU 1
495/45 R 22.5	HDL 1 SUPERDRIVE
10 R 22.5	RMS
11 R 22.5	HDR, HDW
12 R 22.5	HDC 1, HDR, HDW
13 R 22.5	HDC 1, HDL 2, HDW
10.00 R 20	HDR
12.00 R 20	HDC, HDC 1
12.00 R 24	HDC 1
Trailer	
Tire size	Tread pattern
265/70 R 19.5	HTW
275/70 R 22.5	HTC
385/65 R 22.5	HTC 1
425/65 R 22.5	HTC
445/65 R 22.5	HTC, HTC 1
385/55 R 22.5	HTW 2 SCANDINAVIA
385/65 R 22.5	HTW 2 SCANDINAVIA

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)										
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference													
							Width	Outer-Ø	Width	Outer-Ø															
									+ 1 %	± 1 %					± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)
205/65 R 17.5	HTR	129/127J (130/130F)	J 100 (F 80)	TL	6.00	231	213	721	204	711	332	2155	130	S		2370	2560	2745	2925	3105	3280	3455	3630	3800	
					6.75	239	221		213				129	S		2310	2495	2675	2850	3025	3195	3365	3530	3700	
													130	D		4745	5125	5490	5855	6215	6565	6915	7260	7600	
													127	D		4370	4720	5060	5395	5725	6045	6370	6685	7000	
245/70 R 17.5	LSR1	136/134 M	M 130	TL	6.75	270	250	803	240	789	360	2390	146	S	2690	3745	4045	4335	4620	4905	5185	5460	5730	6000	
													143	S		3405	3675	3940	4200	4455	4710	4955	5205	5450	
	136	S	2930	3160	3390	3610	3835	4050	4265	4480															
	146	D	7495	8090	8675	9245	9810	10370	10920	11460	12000														
HTR	143/141 J (146/146 F)	J 100 (F 80)	TL										141	D	5095	5545	5985	6415	6840	7260	7670	8075	8480		
																134	D								
265/70 R 17.5	LSR1	139/136 M	M 130	TL	6.75	286	264	831	254	817	376	2492	139	S	3065	3335	3600	3860	4115	4365	4615	4860			
					7.50	295	272		262				137	S	3055	3325	3585	3845	4100	4350	4600				
													136	D	5650	6150	6635	7115	7585	8050	8505	8960			
LCS	137/134 L	L 120	TL									134	D	5635	6130	6615	7090	7560	8020	8480					
LDR1	139/136 M	M 130	TL																						
205/75 R 17.5	LSR1	124/122 M	M 130	TL	5.25	222	205	765	197	753	353	2295	124	S	2125	2310	2495	2675	2850	3025	3200				
					6.00	231	213		204				122	D	3985	4335	4680	5015	5350	5675	6000				
LDR1	124/122 M	M 130	TL	6.75	239	221		212																	
215/75 R 17.5	LSR1	126/124 M	M 130	TL	6.00	239	220	779	211	767	359	2340	135	S	2385	2850	3075	3295	3515	3730	3940	4150	4360		
					6.75	246	228		219				126	S		2595	2800	3005	3200	3400					
													133	D		5385	5815	6235	6645	7050	7450	7845	8240		
HTR	135/133 J	J 100	TL									124	D	4490		4885	5275	5655	6030	6400					
225/75 R 17.5	LSR1	129/127 M	M 130	TL	6.00	246	227	797	218	783	366	2390	129	S	2455	2675	2885	3095	3295	3500	3700				
					6.75	254	235		226				127	D	4650	5060	5460	5855	6240	6620	7000				
LDR1	129/127 M	M 130	TL																						
235/75 R 17.5	LSR1	132/130 M	M 130	TL	6.75	262	242	811	233	797	373	2430	143	S	2520	3405	3675	3940	4200	4455	4710	4955	5205	5450	
					7.50	271	250		241				132	S		2745	2960	3175	3385	3590	3795	4000			
													141	D		6435	6945	7445	7935	8420	8900	9370	9835	10300	
HTR	143/141 J	J 100	TL									130	D	4795		5215	5630	6035	6435	6825	7215	7600			

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions				Stat. radius	Rolling circumference	Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value						± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
							Width	Outer-Ø	Width	Outer-Ø																
245/75 R 17.5	LSR	134/132 M (136/134 L)	M 130 (L 120)	TL	6.75 7.50	270 279	250 258	827	240 248	813	379	2480	136	S	2690	2930	3160	3390	3610	3835	4050	4265	4480			
	LDR	134/132 M (136/134 L)	M 130 (L 120)	TL									134	S	2675	2910	3140	3365	3590	3810	4025	4240	4480			
8.5 R 17.5	LSR	121/120 L	L 120	TL	5.25 6.00	233 242	216 224	817	207 215	802	374	2445	121	S	2160	2350	2535	2720	2900							
	LDR	121/120 L	L 120	TL	6.75	251	232		223				120	D	4170	4535	4895	5250	5600							
9.5 R 17.5	LSC	129/127 L (131/128 M)	L 120 (M 130)	TL	6.00 6.75	261 270	242 250	857	232 240	842	391	2565	131	S	2460	2675	2885	3095	3300	3500	3700	3900				
	LSR1	129/127 L	L 120	TL									129	S	2455	2675	2885	3095	3295	3500	3700					
	LDR1	129/127 L	L 120	TL									128	D	4540	4940	5335	5715	6095	6470	6835	7200				
10 R 17.5	LSR1	134/132 L	L 120	TL	6.75 7.50	277 286	256 264	875	246 254	858	398	2615	134	S	2675	2910	3140	3365	3590	3810	4025	4240				
	LDR1	134/132 L	L 120	TL									132	D	5045	5490	5925	6355	6775	7185	7595	8000				
8 R 17.5 C	LSR	117/116 L	L 120	TL	5.25 6.00	225 234	208 216	797	200 208	784	367	2390	117	S	2040	2220	2395	2570								
	LDR	113/112 M	M 130	TL	6.75	243	224		216				113	S	1955	2130	2300									
445/45 R 19.5	HTL 1	160/ - J	J 100	TL	14.00 15.00	0 0	454 464	911	436 446	903	416	2712	160	S	5165	5620	6065	6505	6935	7360	7775	8190	8595	9000		
	HTL 1 ContiRe	160/ - J	J 100	TL																						
385/55 R 19.5	HTL 1	156/ - J	J 100	TL	11.75 12.25	0 0	396 401	935	381 386	919	422	2785	156	S				6165	6540	6910	7280	7640	8000			
	HTL	156/ - J	J 100	TL																						
385/65 R 19.5	HTR	160/ - K	K 110	TL	11.75 12.25	0 0	405 410	1015	389 394	995	454	3015	160	S	5165	5620	6065	6505	6935	7360	7775	8190	8595	9000		

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)										
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)	
							Width	Outer-Ø	Width	Outer-Ø															+ 1 %
245/70 R 19.5	HSR 1	136/134 M	M 130	TL	6.75 7.50	270 279	250 258	853	240 248	839		389	2560	141	S	3095	3365	3635	3895	4155	4405	4655	4905	5150	
	HSW SCAN	136/134 M	M 130	TL										136	S	2690	2930	3160	3390	3610	3835	4050	4265	4480	
	HDR	136/134 M	M 130	TL										140	D	6010	6540	7055	7565	8065	8560	9045	9525	10000	
	HTR 1	141/140 J	J 100	TL	6.75 7.50	270 279	250 258	853	240 248	839		389	2560	134	D	5095	5545	5985	6415	6840	7260	7670	8075	8480	
265/70 R 19.5	HSR 1	140/138 M	M 130	TL	6.75 7.50	286 295	264 272	881	254 262	867		401	2645	143	S		3560	3845	4120	4395	4665	4930	5190	5450	
	HSW SCAN	140/138 M	M 130	TL										140	S	3155	3430	3700	3970	4230	4490	4745	5000		
	HDR	140/138 M	M 130	TL										141	D	6735	7270	7795	8310	8815	9315	9810	10300		
	HTR 1	143/141 J	J 100	TL	7.50 8.25	295 303	272 282	881	262 270	867		401	2645	138	D	5955	6480	6995	7495	7995	8480	8960	9440		
	HTW	143/141 J	J 100	TL																					
285/70 R 19.5	HSR 1	145/143 M	M 130	TL	7.50 8.25 9.00	311 318 327	286 294 302	911	275 283 291	895		413	2730	150	S		4185	4515	4840	5160	5475	5790	6095	6400	6700
	HSW SCAN	145/143 M	M 130	TL										145	S	3485	3790	4090	4385	4675	4965	5245	5525	5800	
	HDR	145/143 M	M 130	TL										148	D	7870	8495	9105	9710	10305	10885	11465	12035	12600	
	HTR 1	150/148 J	J 100	TL	8.25 9.00	318 327	294 302	911	283 291	895		413	2730	143	D	6550	7125	7690	8245	8790	9330	9860	10380	10900	
305/70 R 19.5	HSR 1	148/145 M	M 130	TL	8.25 9.00	334 343	309 317	941	297 305	923		424	2815	148	S	3785	4120	4445	4765	5080	5390	5695	6000	6300	
	HDR	148/145 M	M 130	TL										145	D	6970	7585	8185	8775	9355	9930	10490	11050	11600	
495/45 R 22.5	HDL 1 Superdrive	169/- K	K 110	TL	16.00	0	510		496					169	S	6660	7245	7820	8385	8940	9485	10025	10555	11080	11600
		154/- K (152/- L)	K 110 (L 120)	TL	17.00	0	520	1036	506	1025		470	3142												
355/50 R 22.5	HSL 2	154/- K (152/- L)	K 110 (L 120)	TL	11.75	0	401	1012	361	996		435	2812	154	S	4305	4685	5055	5420	5780	6130	6480	6825	7160	7500
														152	S	4265	4640	5010	5370	5725	6075	6420	6760	7100	

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)										
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)	
							Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %															
385/55 R 22.5	<b>HSL 2</b>	160/ - K (158/ - L)	K 110 (L 120)	TL	11.75 12.25	0 0	396 401	1012	381 386	996		461	3020	160 158	S S	5165 5110	5620 5555	6065 6000	6505 6430	6935 6855	7360 7275	7775 7690	8190 8095	8595 8500	9000
	<b>HSR 2</b>	160/ - K (158/ - L)	K 110 (L 120)	TL																					
	<b>HSW 2 SCAN*</b>	160/ - K (158/ - L)	K 110 (L 120)	TL																					
	<b>HTW 2 SCAN</b>	160/ - K (158/ - L)	K 110 (L 120)	TL																					
	<b>HSR 1</b>	158/ - L (160/ - K)	L 120 (K 110)																						
	<b>HSW SCAN</b>	158/ - L (160/ - K)	L 120 (K 110)																						
	<b>HDU 1</b>	160/ - J	J 100																						
	<b>HDC</b>	158/ - K (160/ - J)	K 110 (J 100)																						
	<b>HTL 1</b>	160/ - K (158/ - L)	K 110 (L 120)																						
	<b>HTR 1</b>	160/ - K (158/ - L)	K 110 (L 120)																						
	<b>HTR 1 ContiRe</b>	160/ - K (158/ - L)	K 110 (L 120)																						



## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)									
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference	4.5 (65)			5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)	
							Width	Outer-Ø	Width	Outer-Ø															
									+ 1 %	± 1 %															
295/60 R 22.5	HSR 1	150/147 L	L 120	TL	9.00 9.75	329 338	304 312	940	292 300	926	434	2806	150 147	S D	3845 7060	4185 7685	4515 8290	4840 8890	5160 9480	5475 10055	5790 10630	6095 11190	6400 11750	6700 12300	
	HDL 2	150/147 L	L 120	TL																					
	HSL 2	150/147 L	L 120	TL																					
	HD Hybrid *	150/147 L	L 120	TL																					
	HD Hybrid ContiRe *	150/147 L	L 120	TL																					
	HDR+	150/147 K	K 110	TL																					
	HDR+ ContiRe	150/147 K	K 110	TL																					
305/60 R 22.5	HSR 1	150/147 L	L 120	TL	9.00 9.75	336 344	310 318	952	298 306	938	437	2840	150 147	S D	3845 7060	4185 7685	4515 8290	4840 8890	5160 9480	5475 10055	5790 10630	6095 11190	6400 11750	6700 12300	
	HDR+	150/147 K	K 110	TL																					
315/60 R 22.5	HSL 2	152/148 L	L 120	TL	9.00 9.75	344 352	318 326	966	305 313	950	442	2880	154 152 150 148	S S D D	4305 4075 7695 7235	4685 4435 8370 7870	5055 4785 9035 8495	5420 5130 9685 9105	5780 5470 10325 9710	6130 5805 10955 10305	6480 6135 11580 10885	6825 6460 12195 11465	7160 6780 12800 12035	7500 7100 13400 12600	
	HSR 1	152/148 L	L 120	TL																					
	HSL 2	154/150 L	L 120	TL																					
	HDL 2	152/148 L	L 120	TL																					
	HD Hybrid *	152/148 L	L 120	TL																					
	HD Hybrid ContiRe *	152/148 L	L 120	TL																					
	HDR+	152/148 K	K 110	TL																					
	HDR+ ContiRe	152/148 K	K 110	TL																					

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)									
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
							Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %														
385/65 R 22.5	<b>HSR 2</b>	160/ - K (158/- L)	K 110 (L 120)	TL	11.75 12.25	0 0	405 410	1092	389 394	1072	495	3250	160 158	S S	5165 5110	5620 5555	6065 6000	6505 6430	6935 6855	7360 7275	7775 7690	8190 8095	8595 8500	9000
	<b>HSW 2 SCAN *</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HSC 1</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HSW SCAN</b>	158/ - L (160/ - J)	L 120 (J 100)	TL																				
	<b>HSR 1</b>	158/ - L (160/ - K)	L 120 (K 110)	TL																				
	<b>HTL 2</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HTW 2 SCAN</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HTR</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HTR ContiRe</b>	160/ - K (158/ - L)	K 110 (L 120)	TL																				
	<b>HTR 2</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HTR 2 ContiRe</b>	160/ - K (158/- L)	K 110 (L 120)	TL																				
	<b>HTL</b>	160/ - K	K 110	TL																				
	<b>HTC1</b>	160/ - K	K 110	TL																				

## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)		
								Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %															± 1,5 %	± 2 %
385/65 R 22.5	HTC1	160/ - K		K 110	TL	11.75	0	405	1092	389	1072		495	3250	160	S	5165	5620	6065	6505	6935	7360	7775	8190	8595	9000	
	ContiRe					12.25	0	410		394					158	S	5110	5555	6000	6430	6855	7275	7690	8095	8500		
425/65 R 22.5	HTR	165/ - K		K 110	TL	13.00	0	447	1146	430	1124		514	3405	165	S	6190	6735	7270	7795	8310	8815	9315	9810	10300		
	HTC	165/ - K		K 110	TL	14.00	0	457		440																	
445/65 R 22.5	HTC1	169/ - K	20	K 110	TL	13.00	0	472	1174	454	1150		524	3485	169	S	6660	7245	7820	8385	8940	9485	10025	10555	11080	11600	
						14.00	0	482		464					168	S	6430	6995	7550	8095	8630	9160	9675	10190	10695	11200	
	HTR2	169/ - K	20	K 110	TL																						
	HTR	168/ - K	20	K 110	TL																						
	HTC	168/ - K	20	K 110	TL																						
255/70 R 22.5	HSR1	140/137 M (142/140 L)	20	M 130 (L 120)	TL	6.75	278	257	944	247	930		434	2835	142	S	3185	3465	3740	4010	4275	4535	4795	5045	5300		
						7.50	287	265		255					140	S	3155	3430	3700	3970	4230	4490	4745	5000			
	HDR	140/137 M (142/140 L)		M 130 (L 120)	TL	8.25	295	273		263					140	D	6010	6540	7055	7565	8065	8560	9045	9525	10000		
														137	D	5805	6315	6815	7305	7790	8265	8735	9200				

## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference														
								Width	Outer-Ø	Width	Outer-Ø																
																+ 1 %	± 1 %										
										± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)						
275/70 R 22.5	HSR 1	148/145 M		M 130	TL	7.50 8.25	303 311	279 287	974	267 275	961		447	2920	152	S	4075	4435	4785	5130	5470	5805	6135	6460	6780	7100	
	HSW	148/145 L (152/148 E)		L 120 (E 70)	TL										151	S	3960	4310	4650	4985	5315	5640	5960	6275	6590	6900	
	HSU 1 M+S	148/145 J (152/148 E)		J 100 (E 70)	TL										148	S	3615	3935	4245	4550	4855	5150	5440	5730	6015	6300	
	HSU 1 M+S ContiRe	148/145 J (152/148 E)		J 100 (E 70)	TL										148	D	7235	7870	8495	9105	9710	10305	10885	11465	12035	12600	
	HSU 1	148/145 J (152/148 E)		J 100 (E 70)	TL										145	D	6660	7245	7820	8385	8940	9485	10025	10555	11080	11600	
	HSU 1 ContiRe	148/145 J (152/148 E)		J 100 (E 70)	TL																						
	HDR	148/145 L	16	L 120	TL																						
	HDW SCAN	148/145 L	16	L 120	TL																						
	HDU	148/145 J (151/148 E)	16	J 100 (E 70)	TL																						
	HDU ContiRe	148/145 J (151/148 E)	16	J 100 (E 70)	TL																						
	HTC	148/145 J	16	J 100	TL																						
305/70 R 22.5	HSR 1	152/148 L (150/148 M)		L 120 (M 130)	TL	8.25 9.00	334 343	309 317	1018	297 305	1000		463	3050	154	S	4305	4685	5055	5420	5780	6130	6480	6825	7160	7500	
	HSU 1	150/148 J (154/150 E)		J 100 (E 70)	TL										152	S	4075	4435	4785	5130	5470	5805	6135	6460	6780	7100	
															150	S	4025	4380	4725	5070	5405	5735	6060	6380	6700		
	HDR	150/148 M	16	M 130	TL										150	D	7695	8370	9035	9685	10325	10955	11580	12195	12800	13400	
					148	D	7575	8240	8890	9535	10165	10785	11395	12000	12600												

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)																			
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference																						
							Width	Outer-Ø	Width	Outer-Ø																								
															+ 1 %		± 1 %		± 1,5 %		± 2 %		4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)		
315/70 R 22.5	<b>HSL 2</b>	156/150 L (154/150 M)	L 120 (M 130)	TL	9.00 9.75	351 358	318 326	1032	312 320	1014		468	3090	156	S	4590	4995	5390	5780	6165	6540	6910	7280	7640	8000									
																							154	S	4305	4685	5055	5420	5780	6130	6480	6825	7160	7500
																							152	S	4265	4640	5010	5370	5725	6075	6420	6760	7100	
																							150	D	7695	8370	9035	9685	10325	10955	11580	12195	12800	13400
																							148	D	7575	8240	8890	9535	10165	10785	11395	12000	12600	
	<b>HSL 1</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HSL 2</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HSR 1</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HSR 2</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HSW SCAN</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HSW 2 SCAN *</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HDL 1</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
	<b>HDL 2</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																														
<b>HD Hybrid *</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																															
<b>HDR 2</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																															
<b>HDR 2 ContiRe</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																															
<b>HDW 2 SCAN *</b>	154/150 L (152/148 M)	L 120 (M 130)	TL																															

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)																	
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference																				
							Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %																						
															4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)								
315/70 R 22.5	HDR+	152/148 M (154/150 L)	M 130 (L 120)	TL	9.00 9.75	351 358	318 326	1032	312 320	1014	468	3090	156	S	4590	4995	5390	5780	6165	6540	6910	7280	7640	8000								
																					154	S	4305	4685	5055	5420	5780	6130	6480	6825	7160	7500
	HDR+ ContiRe	152/148 M (154/150 L)	M 130 (L 120)	TL																	150	D	7695	8370	9035	9685	10325	10955	11580	12195	12800	13400
																					148	D	7575	8240	8890	9535	10165	10785	11395	12000	12600	
	HDW SCAN	152/148 M (154/150 L)	M 130 (L 120)	TL																												
	HDW SCAN ContiRe	152/148 M (154/150 L)	M 130 (L 120)	TL																												
295/80 R 22.5	HSW 2 Coach*	152/148 M	M 130	TL	8.25 9.00	326 335	302 310	1062	290 298	1044	487	3185	152	S	4265	4640	5010	5370	5725	6075	6420	6760	7100									
																					148	D	7575	8240	8890	9535	10165	10785	11395	12000	12600	
	HSL 1	152/148 M	M 130	TL																	152	S	4265	4640	5010	5370	5725	6075	6420	6760	7100	
																					148	D	7575	8240	8890	9535	10165	10785	11395	12000	12600	
	HSL 2	152/148 M	M 130	TL																												
	HSR 1	152/148 M	M 130	TL																												
	HSR 2	152/148 M	M 130	TL																												
	HSW SCAN	152/148 M	M 130	TL																												
	HSW 2 SCAN*	152/148 M	M 130	TL																												
	HSW SCAN ContiRe	152/148 M	M 130	TL																												
	HSC	152/148 K	K 110	TL																												
	HSC1	152/148 K	K 110	TL																												
	HSU	152/148 J	J 100	TL																												
HDL 1	152/148 M	M 130	TL																													
HD Hybrid*	152/148 M	M 130	TL																													
HDR+	152/148 M	M 130	TL																													

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)										
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference													
							Width	Outer-Ø	Width	Outer-Ø															
									+ 1 %	± 1 %					± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)
295/80 R 22.5	<b>HDR 2</b>	152/148 M	M 130	TL	8.25 9.00	326 335	302 310	1062	290 298	1044		487	3185	152 148 152 148	S D S D	4265	4640	5010	5370	5725	6075	6420	6760	7100	
	<b>HDR 2 ContiRe</b>	152/148 M	M 130	TL												7575	8240	8890	9535	10165	10785	11395	12000	12600	
	<b>HDR+ ContiRe</b>	152/148 M	M 130	TL												4265	4640	5010	5370	5725	6075	6420	6760	7100	
	<b>HDW</b>	152/148 M	M 130	TL												7575	8240	8890	9535	10165	10785	11395	12000	12600	
	<b>HDW SCAN</b>	152/148 M	M 130	TL																					
	<b>HDW 2 SCAN *</b>	152/148 M	M 130	TL																					
	<b>HDW ContiRe</b>	152/148 M	M 130	TL																					
	<b>HDC 1</b>	152/148 K	K 110	TL																					
<b>HDC</b>	152/148 K	K 110	TL																						
315/80 R 22.5	<b>HSL 1</b>	156/150 L (154/150 M)	L 120 (M 130)	TL	9.00 9.75	351 360	318 326	1096	312 320	1076		500	3280	156 154 150	S S D	4590	4995	5390	5780	6165	6540	6910	7280	7640	8000
	<b>HSL 2</b>	156/150 L (154/150 M)	L 120 (M 130)	TL												4505	4905	5290	5675	6050	6420	6785	7140	7500	
	<b>HSR 1</b>	156/150 L (154/150 M)	L 120 (M 130)	TL												8055	8760	9455	10140	10810	11470	12120	12765	13400	
	<b>HSR 2</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																					
	<b>HSW 2 SCAN *</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																					
	<b>HSC 1 ContiRe</b>	156/150 K	K 110	TL																					

## Specifications and load capacities

Tire size	Operating code				Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
							Width	Outer-Ø	Width	Outer-Ø																
									+ 1 %	± 1 %																
315/80 R 22.5	<b>HSC1</b>	156/150 K	K 110	TL	9.00 9.75	351 360	318 326	1096	312 320	1076	500	3280	156 154 150	S S D	4590 4505 8055	4995 4905 8760	5390 5290 9455	5780 5675 10140	6165 6050 10810	6540 6420 11470	6910 6785 12120	7280 7140 12765	7640 7500 13400	8000		
	<b>HSW SCAN</b>	154/150 M (156/150 L)	M 130 (L 120)	TL																						
	<b>HDL1</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDL2</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HD Hybrid*</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDR+</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDR+ ContiRe</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDR2</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDR2 ContiRe</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDW2 SCAN*</b>	156/150 L (154/150 M)	L 120 (M 130)	TL																						
	<b>HDC1 ContiRe</b>	156/150 K	K 110	TL																						
	<b>HDC1</b>	156/150 K	K 110	TL																						



## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)										
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference			4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)	
								Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %															
315/80 R 22.5	HDO	156/150 G		G 90	TL	9.00 9.75	351 360	318 326	1096	312 320	1076	500	3280	156 154 150	S S D	4590 4505 8055	4995 4905 8760	5390 5290 9455	5780 5675 10140	6165 6050 10810	6540 6420 11470	6910 6785 12120	7280 7140 12765	7640 7500 13400	8000	
	HDW SCAN	154/150 M (156/150 L)		M 130 (L 120)	TL																					
	HDW SCAN ContiRe	154/150 M (156/150 L)		M 130 (L 120)	TL																					
	HDW	154/150 M (156/150 L)		M 130 (L 120)	TL																					
	HTR	156/150 K		K 110	TL																					
9 R 22.5	HSR	133/131 L	14	L 120	TL	6.00 6.75	250 259	231 239	986	222 230	970	455	2960	133 131	S D	2890 5475	3145 5955	3395 6430	3640 6895	3880 7350	4120 7800					
	10 R 22.5	HSR	144/142 K		K 110																					TL
10 R 22.5	T9	140/138 K	14	K 110	TL	6.75 7.50	277 286	256 264	1038	246 254	1020	476	3110	144 140 142 138	S S D D	3530 3320 6685 6270	3840 3610 7275 6820	4145 3900 7850 7365	4445 4180 8420 7895	4740 4455 8975 8415	5030 4730 9525 8930	5315 5000 10065 9440	10600			
	RMS	144/142 K	14	K 110	TL																					
	11 R 22.5	HSR	148/145 L	16	L 120																					
11 R 22.5	HSC1	148/145 K	16	K 110	TL	7.50 8.25	305 314	282 290	1070	271 279	1050	489	3200	148 145	S D	3785 6970	4120 7585	4445 8185	4765 8775	5080 9355	5390 9930	5695 10490	6000 11050	6300 11600		
	HSU1	148/145 J	16	J 100	TL																					
	HDR	148/145 L	16	L 120	TL																					
	HDW	148/145 L	16	L 120	TL																					
	HTR	148/145 L	16	L 120	TL																					

## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)																			
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference																						
								Width	Outer-Ø	Width + 1 %	Outer-Ø ± 1 %																								
										± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)														
<b>12 R 22.5</b>	<b>HSR</b>	152/148 L (150/148 M)		L 120 (M 130)	TL	<b>8.25</b> 9.00	<b>329</b> 338	<b>304</b> 312	<b>1104</b>	<b>292</b> 300	<b>1084</b>		<b>504</b>	<b>3306</b>	152	S	4265	4640	5010	5370	5725	6075	6420	6760	7100										
	<b>HSC1</b>	152/148 K		K 110	TL																														
	<b>HDR</b>	152/148 L	16	L 120	TL																														
	<b>HDW</b>	152/148 L	16	L 120	TL																														
	<b>HDC1</b>	152/148 K	16	K 110	TL																														
<b>13 R 22.5</b>	<b>HSR</b>	154/150 L (156/150 K)	16	L 120 (K 110)	TL	<b>9.00</b> 9.75	<b>350</b> 358	<b>318</b> 326	<b>1146</b>	<b>312</b> 320	<b>1124</b>		<b>521</b>	<b>3428</b>	156	S	4590	4995	5390	5780	6165	6540	6910	7280	7640	8000									
	<b>HSC1</b>	154/150 K (156/150 G)	16	K 110 (G 90)	TL																														
	<b>HSO MIL</b>	149/146 J	16	J 100	TL																														
	<b>HDC1</b>	154/150 K (156/150 G)	16	K 110 (G 90)	TL																														
	<b>HDC1 ContiRe</b>	154/150 K (156/150 G)	16	K 110 (G 90)	TL																														
	<b>HDW</b>	154/150 K	16	K 110	TL																														
	<b>HDO</b>	154/150 G	16	G 90	TL																														

# Regrooving recommendations

All Continental tires on which regrooving is permitted have on both sidewalls, in accordance with ECE regulation 54, the word

## REGROOVABLE

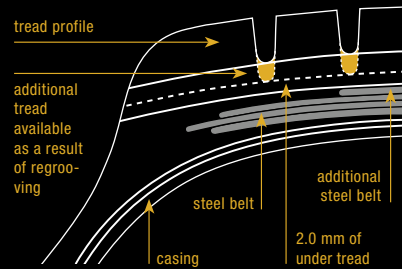
The additional tread depth of up to 4 mm gained by regrooving means a significant increase in performance.

As part of their design all-steel truck tires have a so-called tread stock between the upper edge of the belt and the tread grooves. This tread stock is intended to prevent stones etc. penetrating into the steel belt and the casing.

Provided it is marked "REGROOVABLE", a commercial vehicle tire may be regrooved down to a residual undertread thickness of 2 mm above the breaker or belt. All additional regulations of the respective country have to be met.

Although tires can be retreaded after reaching the legal wear limit, regrooving is not advisable in every case. The tread stock thickness is reduced and stones etc. can more easily penetrate and damage the steel belts, leading to rust formation. This has decidedly negative effect on the tire's suitability for remoulding.

The best time for regrooving is when the tread is worn down to about 3 mm. The tire must then be checked to make sure the wear is even all round. Attention should be paid to local or uneven wear patches.



### Example:

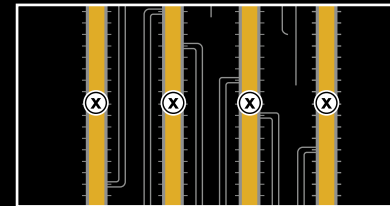
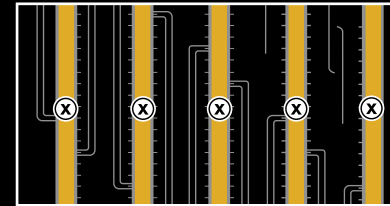
Tire size	315/80 R 22.5
Original tread depth of new tire	20.0 mm
Additional tread as a result of regrooving	4.0 mm

Regrooving should be carried out by an expert, in order to avoid premature failure as well as any reduction in the tire's suitability for retreading.

In some countries (e.g. Germany for KOM-100 coaches and Austria for coaches) regrooving of front axle tires for coaches is prohibited. In general regrooving on front axle coach tires is not recommended.

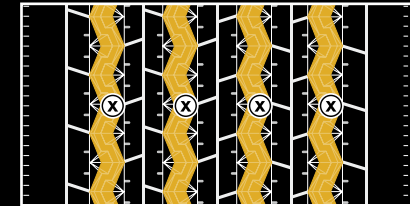
All Continental tires on which regrooving is permitted are marked "regroovable".

### HSL 2



Size	Depth (mm)	Width (mm)
355/50 R 22.5	2.5	10
385/55 R 22.5	2.5	10
315/60 R 22.5	3.5	10
295/60 R 22.5	2.5	10

### HSL 1 ECO-PLUS

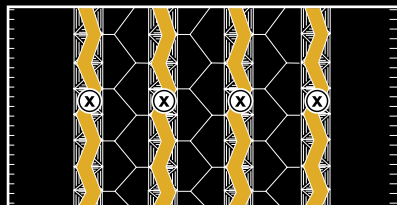


Size	Depth (mm)	Width (mm)
315/70 R 22.5	3.0	12
295/80 R 22.5	3.0	12
315/80 R 22.5	3.0	12

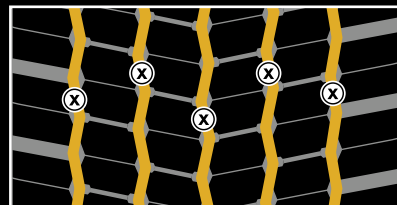
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

HSL ECO-PLUS

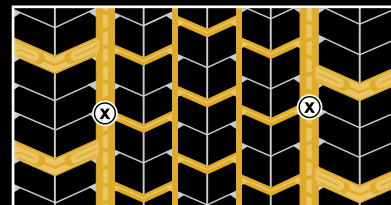


HDL 2



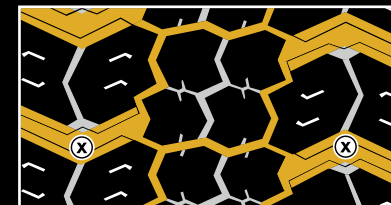
A B B B B B A

HDL 1 ECO-PLUS



A A B B B B B A A

HDL ECO-PLUS



A B A

Size	Depth (mm)	Width (mm)
315/70 R 22.5	3.5	8-10
295/80 R 22.5	3.5	8-10
315/80 R 22.5	3.5	8-10

Size	Depth (mm)	Width (mm)
315/60 R 22.5	3.5	A:10 B:8
295/60 R 22.5	2.5	A:10 B:8
315/70 R 22.5	3.0	A:10 B:8
295/80 R 22.5	3.0	A:10 B:8
315/80 R 22.5	3.0	A:10 B:8

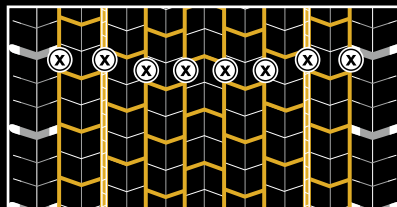
Size	Depth (mm)	Width (mm)
315/70 R 22.5	3.0	A:10 B:5-6
295/80 R 22.5	3.0	A:10 B:5-6
315/80 R 22.5	3.0	A:10 B:5-6

Size	Depth (mm)	Width (mm)
315/70 R 22.5	3.5	A:12-14 B:7-8
295/80 R 22.5	3.5	A:12-14 B:7-8
315/80 R 22.5	3.5	A:12-14 B:7-8

⊗ Tread depth measuring points (§ 36 min. tread depth)

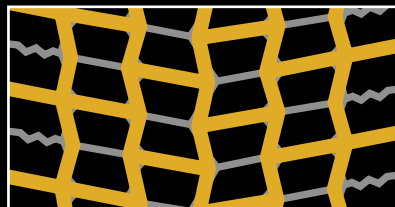
## Regrooving recommendations

HDL 1 SUPERDRIVE

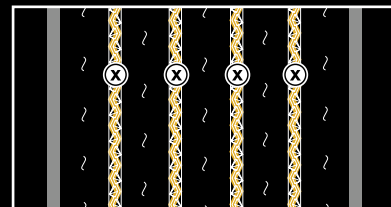


B A B B B B A B

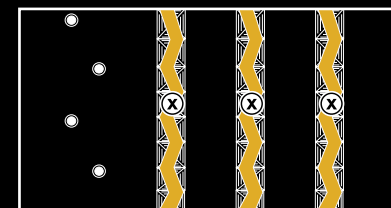
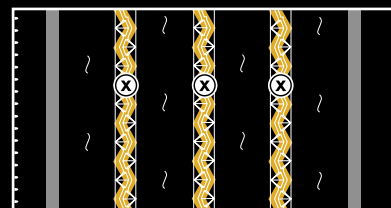
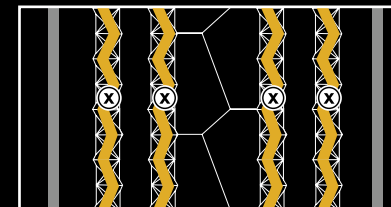
HD HYBRID



HTL 1 ECO-PLUS



HTL ECO-PLUS



Size	Depth (mm)	Width (mm)
495/45 R 22.5	2.5	A:12 B:5-7

Size	Depth (mm)	Width (mm)
295/60 R 22.5	2.5	A:6 B:10 C:4
315/60 R 22.5	3.5	A:6 B:10 C:4
315/70 R 22.5	3.0	A:6 B:10 C:4
295/80 R 22.5	3.5	A:6 B:10 C:4
315/80 R 22.5	3.5	A:6 B:10 C:4

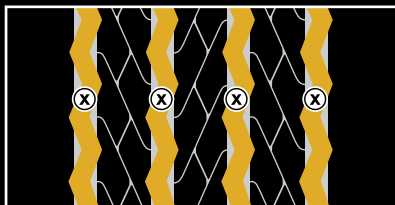
Size	Depth (mm)	Width (mm)
445/45 R 19.5	3.0	13
385/55 R 22.5	3.5	13

Size	Depth (mm)	Width (mm)
385/55 R 19.5	3.0	8-10
385/65 R 22.5	3.0	12-14

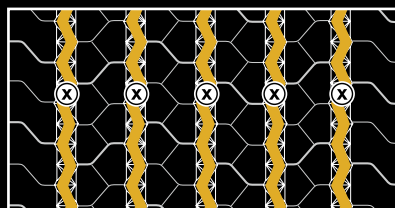
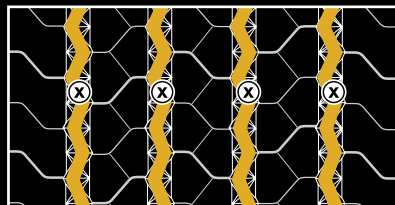
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

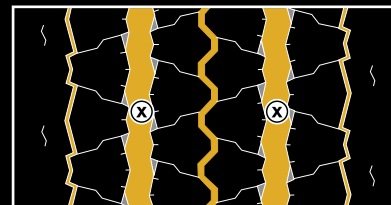
HSR 2



HSR 1



HSR



B A B A B

HSR \*) / RS 415 N \*\*)



Size	Depth (mm)	Width (mm)
315/80 R 22.5	3.0	10
315/70 R 22.5	3.0	10
295/80 R 22.5	3.0	10

Size	Depth (mm)	Width (mm)
245/70 R 19.5	3.0	9-11
265/70 R 19.5	3.0	9-11
285/70 R 19.5	3.0	10-12
305/70 R 19.5	3.0	10-12
295/60 R 22.5	2.5	10-12
305/60 R 22.5	3.5	10-12
315/60 R 22.5	3.5	10-12
275/70 R 22.5	2.5	10-12
305/70 R 22.5	3.0	10-12
315/70 R 22.5	3.0	10-12
295/80 R 22.5	3.0	10-12
315/80 R 22.5	3.0	10-12
385/55 R 22.5	3.0	10-12
385/65 R 22.5	3.5	10-12

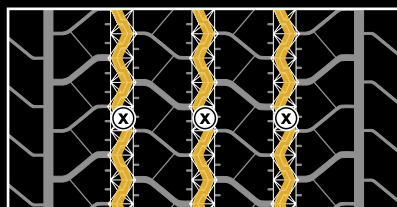
Size	Depth (mm)	Width (mm)
11 R 22.5	3.5	A:10-12 B:4-5
12 R 22.5	3.5	A:10-12 B:4-5

Size	Depth (mm)	Width (mm)
9 R 22.5 *)	3.0	7-8
10 R 22.5 *)	3.5	7-8
13 R 22.5 **)	3.5	7-8

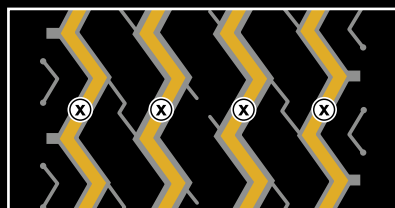
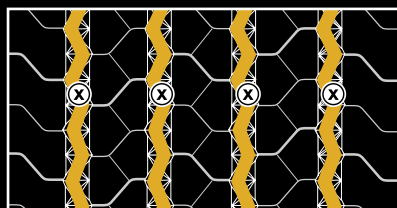
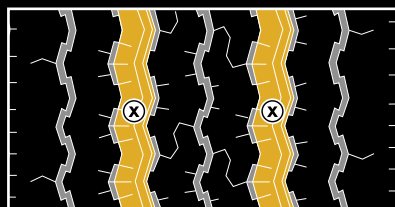
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

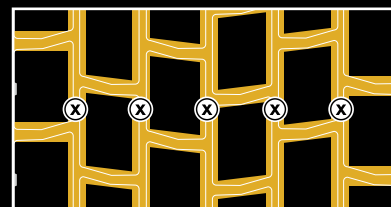
LSR 1



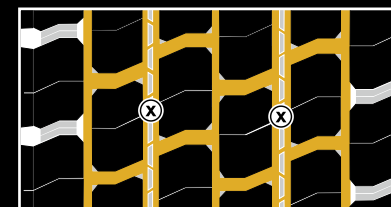
LSR



HDR 2



HDR+ / HDR



B A A A B A A A B

Size	Depth (mm)	Width (mm)
245/70 R 17.5	2.5	9-11
265/70 R 17.5	2.5	9-11
205/75 R 17.5	2.5	9-11
215/75 R 17.5	2.5	9-11
225/75 R 17.5	2.5	9-11
235/75 R 17.5	2.5	9-11
9.5 R 17.5	2.5	7-8
10 R 17.5	2.5	7-8

Size	Depth (mm)	Width (mm)
8 R 17.5	2.0	7
8.5 R 17.5	2.0	7
205/75 R 17.5	3.0	7-8
215/75 R 17.5	2.0	7-8
225/75 R 17.5	3.0	7-8
235/75 R 17.5	3.0	7-8
245/75 R 17.5	2.5	7-8

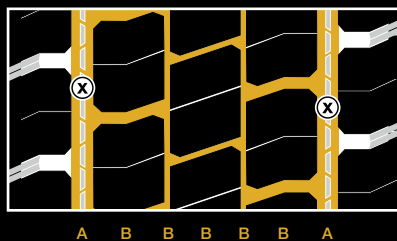
Size	Depth (mm)	Width (mm)
315/70 R 22.5	3.5	6-7
315/80 R 22.5	3.5	6-7
295/80 R 22.5	3.5	6-7

Size	Depth (mm)	Width (mm)
245/70 R 19.5	3.0	A:7-9 B:3-5
265/70 R 19.5	3.0	A:7-9 B:3-5
285/70 R 19.5	3.0	A:7-9 B:3-5
305/70 R 19.5	3.0	A:7-9 B:3-5
295/60 R 22.5	3.0	A:7-9 B:3-5
305/60 R 22.5	3.0	A:7-9 B:3-5
315/60 R 22.5	3.0	A:7-9 B:3-5
275/70 R 22.5	3.5	A:7-9 B:3-5
305/70 R 22.5	3.5	A:7-9 B:3-5
315/70 R 22.5	3.5	A:7-9 B:3-5
295/80 R 22.5	4.0	A:7-9 B:3-5
315/80 R 22.5	4.0	A:7-9 B:3-5

⊗ Tread depth measuring points (§ 36 min. tread depth)

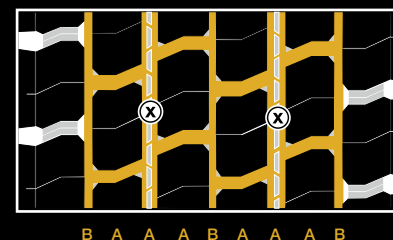
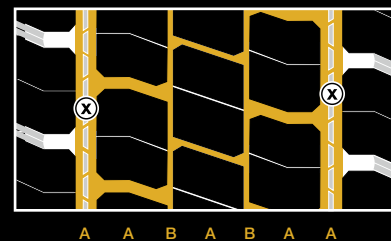
## Regrooving recommendations

HDR



Size	Depth (mm)	Width (mm)
11 R 22.5	3.5	A:10-12 B:5-7
12 R 22.5	4.0	A:10-12 B:5-7

LDR 1



Size	Depth (mm)	Width (mm)
245/70 R 17.5	2.5	A:9-11 B:5-7
265/70 R 17.5	2.5	A:7-9 B:3-5
205/75 R 17.5	2.5	A:8-10 B:4-6
215/75 R 17.5	2.5	A:8-10 B:4-6
225/75 R 17.5	2.5	A:8-10 B:4-6
235/75 R 17.5	2.5	A:9-11 B:5-7
9.5 R 17.5	2.5	A:11 B:5-7
10 R 17.5	2.5	A:11 B:5-7

LDR



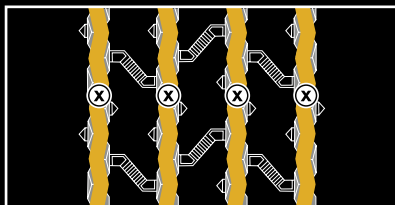
Size	Depth (mm)	Width (mm)
8.5 R 17.5	2.0	7
205/75 R 17.5	3.0	7-8
215/75 R 17.5	3.0	7-8
225/75 R 17.5	3.0	7-8
235/75 R 17.5	3.0	7-8
245/75 R 17.5	4.0	7-8

⊗ Tread depth measuring points (§ 36 min. tread depth)

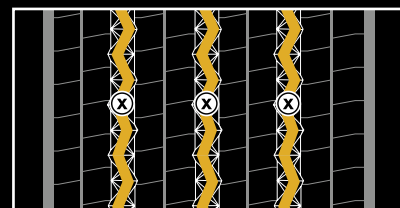
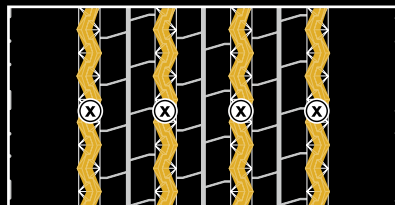


## Regrooving recommendations

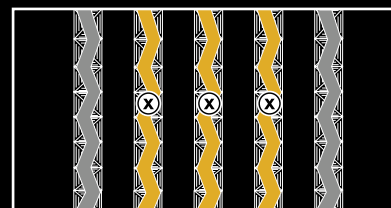
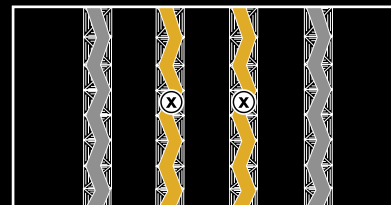
HTR 2



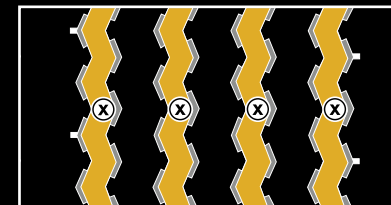
HTR 1



HTR



HTR



Size	Depth (mm)	Width (mm)
385/65 R 22.5	3.0	11
445/65 R 22.5	3.5	13

Size	Depth (mm)	Width (mm)
245/70 R 19.5	3.0	8-10
265/70 R 19.5	3.0	8-10
285/70 R 19.5	3.0	8-10
385/55 R 22.5	3.5	10-12

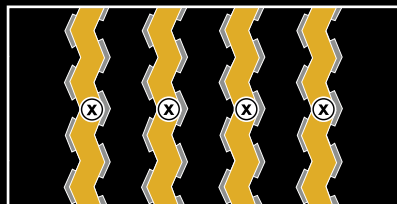
Size	Depth (mm)	Width (mm)
205/65 R 17.5	2.0	7-8
245/70 R 17.5	3.0	7-8
215/75 R 17.5	2.5	7-8
235/75 R 17.5	3.0	7-8
425/65 R 22.5	3.5	10-12
445/65 R 22.5	3.5	10-12

Size	Depth (mm)	Width (mm)
385/65 R 19.5	3.5	7-8
245/70 R 19.5	3.0	7-8
265/70 R 19.5	3.0	7-8
285/70 R 19.5	3.0	7-8
385/65 R 22.5	3.5	7-8

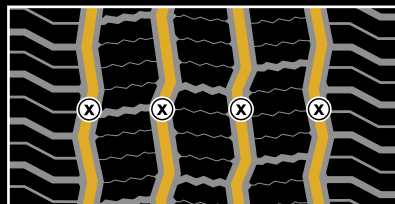
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

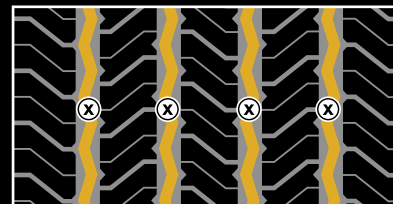
HTR / HT 41



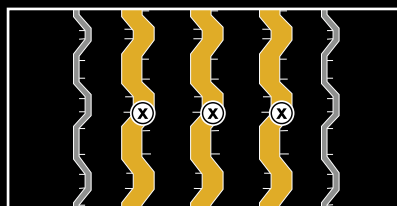
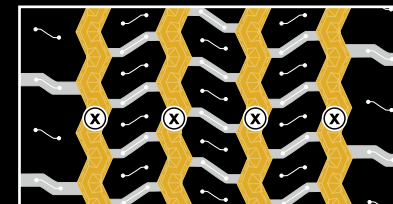
HSW 2 COACH



HSW 2 SCANDINAVIA



HSW SCANDINAVIA



Size	Depth (mm)	Width (mm)
315/80 R 22.5	3.5	A:7-8 B:4-5
11 R 22.5	3.5	A:7-8 B:4-5

Size	Depth (mm)	Width (mm)
295/80 R 22.5	3.5	10

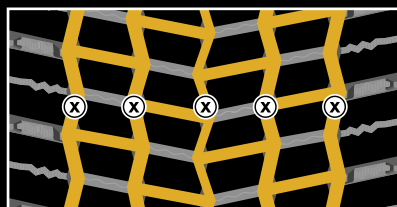
Size	Depth (mm)	Width (mm)
315/80 R 22.5	3.0	8
295/80 R 22.5	3.0	8
315/70 R 22.5	3.5	8

Size	Depth (mm)	Width (mm)
245/70 R 19.5	3.0	11
265/70 R 19.5	3.0	11
285/70 R 19.5	3.0	11
385/55 R 22.5 <sup>*)</sup>	3.0	10-12
385/65 R 22.5 <sup>*)</sup>	3.0	10-12
275/70 R 22.5	3.5	10-12
315/70 R 22.5	3.0	10-12
295/80 R 22.5	3.5	10-12
315/80 R 22.5	3.5	10-12

<sup>\*)</sup> alternative tread pattern

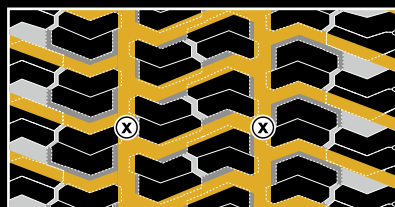
## Regrooving recommendations

HDW 2 SCANDINAVIA

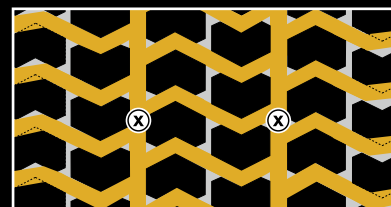


A A A A B A A A A

HDW SCANDINAVIA



HDW



Size	Depth (mm)	Width (mm)
295/60 R 22.5	2.5	A:8 B:4
315/60 R 22.5	3.5	A:8 B:4
315/70 R 22.5	3.0	A:8 B:4
295/80 R 22.5	3.0	A:8 B:4
315/80 R 22.5	3.0	A:8 B:4

Size	Depth (mm)	Width (mm)
275/70 R 22.5	3.0	8-10
295/80 R 22.5	3.5	8-10
315/80 R 22.5	3.5	8-10

Size	Depth (mm)	Width (mm)
295/80 R 22.5	4.0	8-10
315/80 R 22.5	4.0	8-10
11 R 22.5	3.5	8-10
12 R 22.5	4.0	8-10
13 R 22.5	4.0	8-10

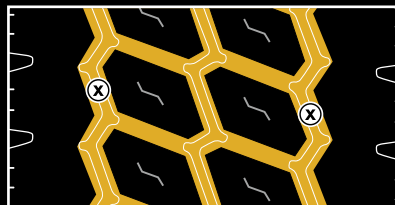
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

HTW 2 SCANDINAVIA

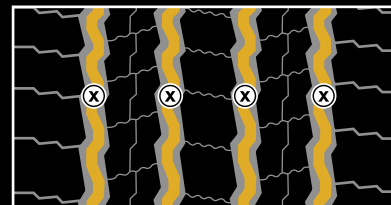


HTW

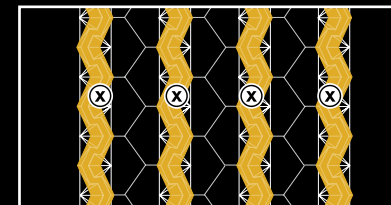


A B A B A

HSU 1 M+S



HSU 1



Size	Depth (mm)	Width (mm)
385/55 R 22.5	3.0	10
385/65 R 22.5	3.0	10

Size	Depth (mm)	Width (mm)
265/70 R 19.5	3.0	A:10-12 B:10

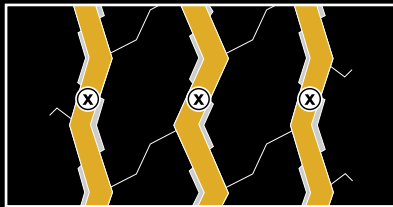
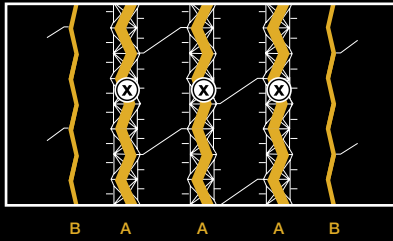
Size	Depth (mm)	Width (mm)
275/70 R 22.5	3.5	8

Size	Depth (mm)	Width (mm)
275/70 R 22.5	3.5	10-12
305/70 R 22.5	4.0	10-12
11 R 22.5	4.0	10-12

⊗ Tread depth measuring points (§ 36 min. tread depth)

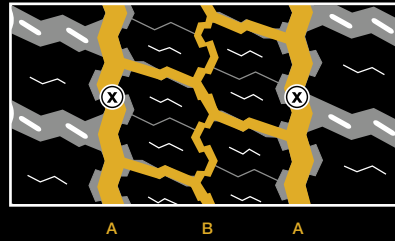
## Regrooving recommendations

HSU



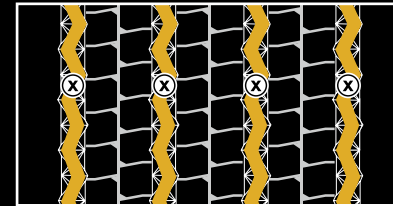
Size	Depth (mm)	Width (mm)
295/80 R 22.5	4.0	A:8-10 B:3-4
305/70 R 22.5	4.0	8-10
12 R 22.5	3.5	A:8-10 B:3-4

HMS 45



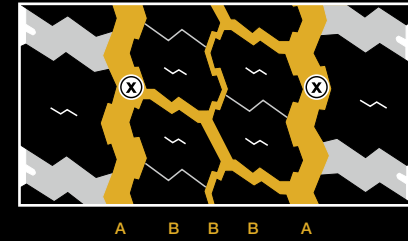
Size	Depth (mm)	Width (mm)
315/80 R 22.5	3.5	A:8-10 B:4-6

HDU 1



Size	Depth (mm)	Width (mm)
385/55 R 22.5	3.0	10-12

HDU

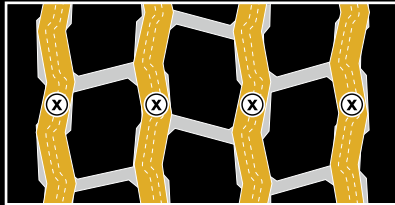


Size	Depth (mm)	Width (mm)
275/70 R 22.5	5.0	A:8-10 B:4-6

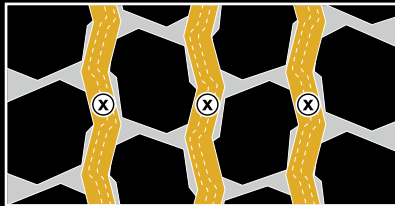
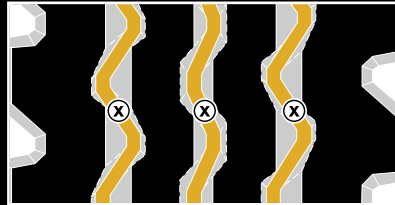
⊗ Tread depth measuring points (§ 36 min. tread depth)

## Regrooving recommendations

HSC 1



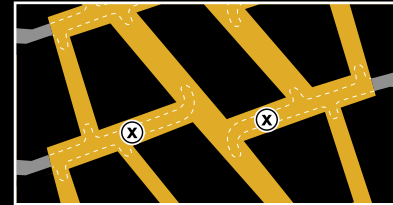
HSC / HSC+ / LSC



Size	Depth (mm)	Width (mm)
385/65 R 22.5	3.5	12
315/80 R 22.5	3.5	12
13 R 22.5	3.5	12

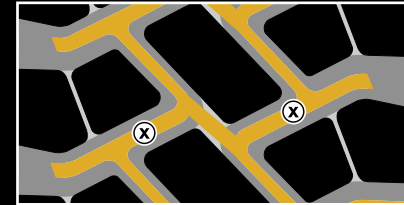
Size	Depth (mm)	Width (mm)
9.5 R 17.5	2.5	10
295/80 R 22.5	3.5	10-12
315/80 R 22.5	3.5	10-12
11 R 22.5	3.5	10-12
12 R 22.5	3.5	10-12
13 R 22.5	3.5	10-12

HDC 1



B B A B

HDC / HDC+



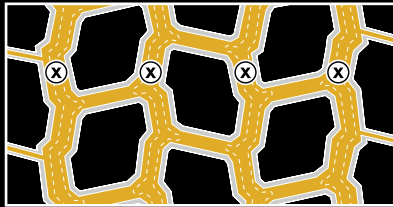
Size	Depth (mm)	Width (mm)
315/80 R 22.5	3.5	A:12 B:7
12 R 22.5	3.5	A:12 B:7
13 R 22.5	3.5	A:12 B:7

Size	Depth (mm)	Width (mm)
385/55 R 22.5	4.0	10-12
295/80 R 22.5	4.0	10-12
315/80 R 22.5	4.0	10-12
12 R 22.5	4.0	10-12
13 R 22.5	4.0	10-12

⊗ Tread depth measuring points (§ 36 min. tread depth)

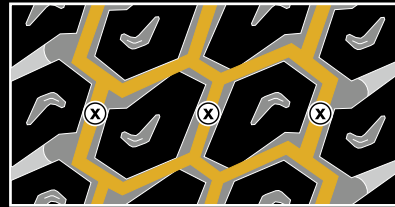
## Regrooving recommendations

HTC 1

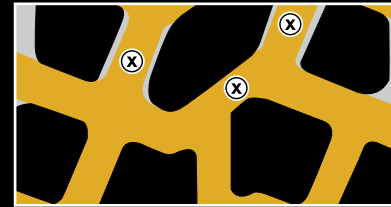


A B A B A B A

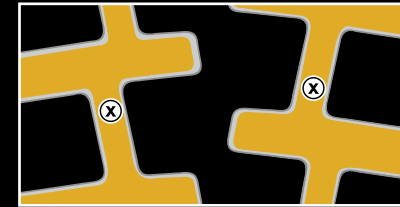
HTC



H50



HDO



Size	Depth (mm)	Width (mm)
385/65 R 22.5	3.5	A:10 B:7
445/65 R 22.5	3.5	A:10 B:7

Size	Depth (mm)	Width (mm)
385/65 R 22.5	3.5	10-12
425/65 R 22.5	3.5	10-12
445/65 R 22.5	3.5	10-12
275/70 R 22.5	4.0	10-12

Size	Depth (mm)	Width (mm)
13 R 22.5	3.0	8

Size	Depth (mm)	Width (mm)
315/80 R 22.5	4.0	10-12
13 R 22.5	4.0	10-12

⊗ Tread depth measuring points (§ 36 min. tread depth)

## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference														
								Width	Outer-Ø	Width	Outer-Ø																
										+ 1 %	± 1 %					± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
7.50 R 15	HTR	135/133 G (134/132 J)	16	G 90 (J 100)	TT	5.00	230	208		202				135	S		2850	3075	3295	3515	3730	3940	4150	4360			
						5.50	236	213		207			134	S		2770	2990	3205	3420	3630	3835	4035	4240				
						6.00	242	218	784	212	772	357	2355	133	D		5385	5815	6235	6645	7050	7450	7845	8240			
						6.50	247	223		217			132	D		5230	5645	6050	6450	6845	7235	7620	8000				
8.25 R 15	HTR	143/141 G (141/140 J)		G 90 (J 100)	TT	5.50	253	231		224				143	S		3560	3845	4120	4395	4665	4930	5190	5450			
						6.00	259	236		229			141	S		3365	3635	3895	4155	4405	4655	4905	5150				
						6.50	265	241	850	234	836	384	2550	141	D		6735	7270	7795	8310	8815	9315	9810	10300			
						7.00	270	246		239			140	D		6540	7055	7565	8065	8560	9045	9525	10000				
205/70 R 15	HTR	124/122 J		J 100	TT	5.00	240	208		198				124	S		2090	2255	2420	2580	2735	2895	3045	3200			
						5.50	246	213	681	203	669	313	2040	122	D		3920	4235	4540	4840	5135	5425	5715	6000			
						6.00	252	219		209																	
						6.50	258	225		214																	
7.00 R 16	LSR	117/116 L	12	L 120	TT	6.00	233	211	792	203	784	364	2390	117	S		2220	2395	2570								
	LDR	117/116 L	12	L 120	TT									116	D		4320	4660	5000								
7.50 R 16	LSR	121/120 L	12	L 120	TT	5.00	230	208		200				121	S		2215	2390	2560	2730	2900						
	LDR	121/120 L	12	L 120	TT	5.50	236	213		205				120	D		4275	4615	4950	5275	5600						
						6.00	242	218	818	210	802	371	2445														
																	3,25 (47)	3,50 (51)	3,75 (54)	4,00 (58)	4,25 (62)	4,50 (65)	4,75 (69)	5,00 (69)	5,25 (73)	5,50 (80)	
7.50 R 16 C	HSO SAND	112/110 N	8	N 140	TT	5.00	230	208		200				112	S		1725	1830	1935	2035	2135	2240					
						5.50	236	213		205			110	D		3265	3465	3660	3855	4050	4240						
						6.00	242	218	818	210	802	371	2445														
						6.50	247	223		215																	



## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)											
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference														
								Width	Outer-Ø	Width	Outer-Ø																
										+ 1 %	± 1 %					± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)
7.50 R 20	RS 63	128/127 K	12	K 110	TT	5.00	230	208		200				128	S		2750	2965	3180	3390	3600						
						5.50	236	213		205				127	D		5345	5770	6185	6595	7000						
						<b>6.00</b>	<b>242</b>	<b>218</b>	<b>944</b>	<b>210</b>	<b>928</b>			<b>433</b>	<b>2830</b>												
						6.50	247	223		215																	
8.25 R 20	RS 63	133/131 K	14	K 110	TT	5.50	253	229		220				133	S		3145	3395	3640	3880	4120						
						6.00	259	234		225				131	D		5955	6430	6895	7350	7800						
						<b>6.50</b>	<b>265</b>	<b>239</b>	<b>980</b>	<b>230</b>	<b>962</b>			<b>447</b>	<b>2930</b>												
						7.00	270	244		235																	
9.00 R 20	HSR	140/137 K	14	K 110	TT	6.00	285	258		248				140	S		3610	3900	4180	4455	4730	5000					
						6.50	291	263		253				137	D		6650	7175	7695	8200	8705	9200					
						<b>7.00</b>	<b>297</b>	<b>268</b>	<b>1038</b>	<b>258</b>	<b>1018</b>			<b>471</b>	<b>3100</b>												
						7.50	302	273		263																	
10.00 R 20	HSR	146/143 K	16	K 110	TT	6.50	305	276		265				146	S		4115	4445	4765	5080	5390	5695	6000				
						7.00	311	281		270				143	D		7480	8075	8655	9230	9795	10350	10900				
	HDR	146/143 K	16	K 110	TT	7.33	314	284		273																	
						<b>7.50</b>	<b>316</b>	<b>286</b>	<b>1074</b>	<b>275</b>	<b>1052</b>			<b>485</b>	<b>3205</b>												
11.00 R 20	HSR	150/146 K	16	K 110	TT	7.33	321	290		279				150	S		4380	4725	5070	5405	5735	6060	6380	6700			
						7.50	323	292		281				146	D		7845	8470	9080	9680	10270	10855	11430	12000			
	HSC	150/146 K	16	K 110	TT	<b>8.00</b>	<b>329</b>	<b>297</b>	<b>1104</b>	<b>286</b>	<b>1082</b>			<b>498</b>	<b>3295</b>												
						8.50	335	302		291																	
9.00	340	307		296																							
12.00 R 20	HSC	154/151 K (156/151 G)		K 110 (G 90)	TT	7.33	346	307		301				156	S		4995	5390	5780	6165	6540	6910	7280	7640	8000		
						8.00	354	314		308				154	S		4905	5290	5675	6050	6420	6785	7140	7500			
	HSR	154/150 K (156/150 G)	18	K 110 (G 90)	TT	<b>8.50</b>	<b>360</b>	<b>319</b>	<b>1146</b>	<b>313</b>	<b>1122</b>			<b>515</b>	<b>3420</b>												
						9.00	366	324		318																	
	HSO SAND	154/149 J	18	J 100	TT																						
HDC	154/150 K (156/150 G)		K 110 (G 90)	TT																							

## Specifications and load capacities

Tire size	Operating code					Rim		Tire dimensions						Load Index	Tire fitment	Load capacity (kg) per axle at inflation pressure <sup>3)</sup> (bar) (psi)																
	Pattern	Load/Speed Index <sup>1)</sup>	PR	Speed Index and ref. speed (km/h)	TT TL <sup>2)</sup>	Rim-width	Min. distance between rim centres	Max. standard value in service		Actual value		Stat. radius	Rolling circumference																			
								Width	Outer-Ø	Width	Outer-Ø																					
																+ 1 %	± 1 %	± 1,5 %	± 2 %	4.5 (65)	5.0 (73)	5.5 (80)	6.0 (87)	6.5 (94)	7.0 (102)	7.5 (109)	8.0 (116)	8.5 (123)	9.0 (131)			
<b>14.00 R 20</b>	<b>HCS</b>	164/160 J (166/160 G)	22	J 100 (G 90)	TL	9.00 <b>10.00</b>	414 <b>426</b>	367	<b>1268</b>	360	<b>1238</b>		<b>565</b>	<b>3780</b>	166	S		7275	7850	8420	8975	9525	10065	10600								
	<b>MIL</b>	160/157 G	18	G 90	TT																											
	<b>HSO SAND</b>	160/157 G	18	G 90	TT																											
	<b>HSO SAND</b>	160/157 G	18	G 90	TL																											
<b>365/80 R 20</b>	<b>HTR</b>	160/- K	20	K 110	TL	<b>10.00</b>	<b>0</b>	<b>379</b>	<b>1116</b>	<b>348</b>	<b>1092</b>		<b>501</b>	<b>3310</b>	160	S		5620	6065	6505	6935	7360	7775	8190	8595	9000						
<b>365/85 R 20</b>	<b>HCS</b>	164/- J	20	J 100	TL	<b>10.00</b>	<b>0</b>	<b>379</b>	<b>1152</b>	<b>364</b>	<b>1128</b>		<b>524</b>	<b>3310</b>	164	S		6865	7405	7940	8465	8985	9495	10000								
<b>395/85 R 20</b>	<b>HCS</b>	168/- J (166/-K)	20	J 100 (K 110)	TL	<b>10.00</b>	<b>0</b>	<b>401</b>	<b>1206</b>	<b>386</b>	<b>1180</b>		<b>524</b>	<b>3600</b>	168 166	S S		7325 6930	7905 7480	8475 8020	9035 8550	9585 9075	10130 9590	10665 10095	11200 10600							
<b>12.00 R 24</b>	<b>HSR</b>	160/156 K	20	K 110	TT	7.33	346	307	<b>1250</b>	301	<b>1226</b>		<b>566</b>	<b>3740</b>	160	S		5885	6350	6810	7260	7705	8140	8570	9000							
						8.00	354	314		308																						
	<b>HSC</b>	160/156 K	20	K 110	TT	<b>8.50</b>	<b>360</b>	<b>319</b>		<b>313</b>																						
						9.00	366	324		318																						
	<b>HDC</b>	160/156 K	20	K 110	TT																											
	<b>HDC1</b>	160/156 K	20	K 110	TT																											

## Regrooving recommendations

All Continental tires on which regrooving is permitted have on both sidewalls, in accordance with ECE regulation 54, the word

### REGROOVABLE

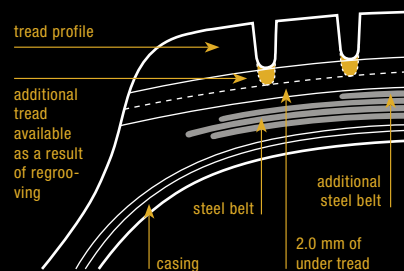
The additional tread depth of up to 4 mm gained by regrooving means a significant increase in performance.

As part of their design all-steel truck tires have a so-called tread stock between the upper edge of the belt and the tread grooves. This tread stock is intended to prevent stones etc. penetrating into the steel belt and the casing.

Provided it is marked "REGROOVABLE", a commercial vehicle tire may be regrooved down to a residual undertread thickness of 2 mm above the breaker or belt. All additional regulations of the respective country have to be met.

Although tires can be retreaded after reaching the legal wear limit, regrooving is not advisable in every case. The tread stock thickness is reduced and stones etc. can more easily penetrate and damage the steel belts, leading to rust formation. This has a decidedly negative effect on the tire's suitability for remoulding.

The best time for regrooving is when the tread is worn down to about 3 mm. The tire must then be checked to make sure the wear is even all round. Attention should be paid to local or uneven wear patches.



### Example:

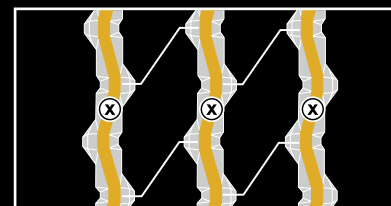
Tire size	315/80 R 22.5
Original tread depth of new tire	20.0 mm
Additional tread as a result of regrooving	4.0 mm

Regrooving should be carried out by an expert, in order to avoid premature failure as well as any reduction in the tire's suitability for retreading.

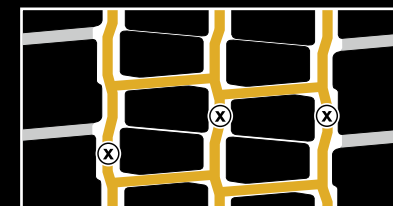
In some countries (e.g. Germany for KOM-100 coaches and Austria for coaches) regrooving of front axle tires for coaches is prohibited. In general regrooving on front axle coach tires is not recommended.

All Continental tires on which regrooving is permitted are marked "regroovable".

### HSR



### HDR

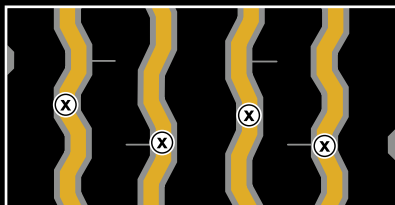


Size	Depth (mm)	Width (mm)
9.00 R 20	3.5	7-8
10.00 R 20	3.5	7-8
11.00 R 20	3.5	7-8
12.00 R 20	3.5	7-8
11.00 R 22	3.5	7-8
12.00 R 24	2.5	7-8

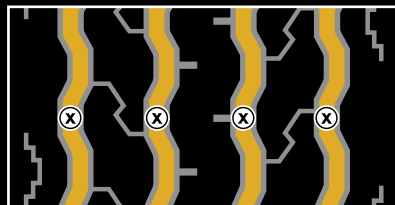
Size	Depth (mm)	Width (mm)
9.00 R 20	4.0	6-7
10.00 R 20	3.5	6-7
11.00 R 22	4.0	6-7

## Regrooving recommendations

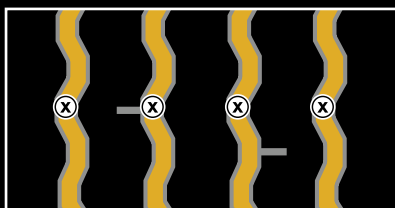
RS 63



LSR



LDR



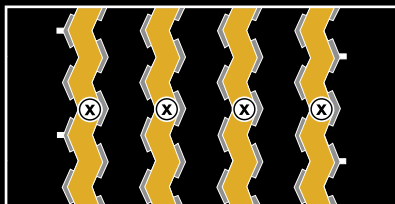
Size	Depth (mm)	Width (mm)
7.50 R 20	3.0	7
8.25 R 20	3.0	7

Size	Depth (mm)	Width (mm)
7.00 R 16	1.5	7

Size	Depth (mm)	Width (mm)
7.00 R 16	1.5	7

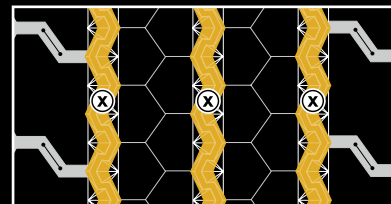
## Regrooving recommendations

HTR / HT 63 / HS 62



Size	Depth (mm)	Width (mm)
365/80 R 20	3.5	7-8

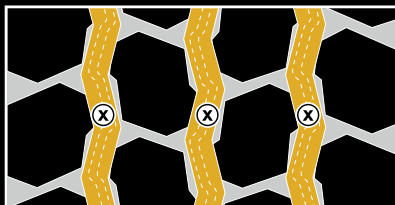
HSU 1



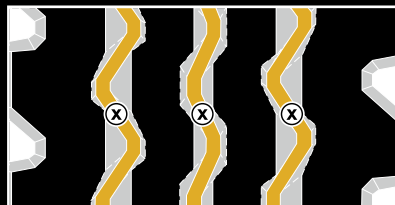
Size	Depth (mm)	Width (mm)
10.00 R 20	4.0	10-12

## Regrooving recommendations

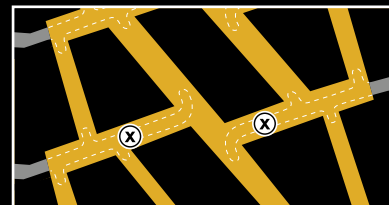
HSC 1



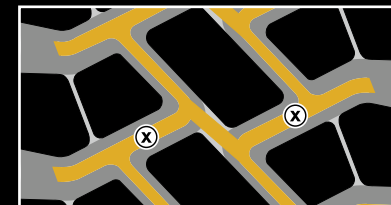
HSC / HSC+



HDC 1



HDC



Size	Depth (mm)	Width (mm)
12.00 R 24	3.5	15

Size	Depth (mm)	Width (mm)
9.00 R 20	4.0	10-12
10.00 R 20	3.5	10-12
11.00 R 20	3.5	10-12
12.00 R 20	3.5	10-12
11.00 R 22	3.5	10-12
12.00 R 24	3.5	10-12

Size	Depth (mm)	Width (mm)
12.00 R 24	3.5	A:12 B:7

Size	Depth (mm)	Width (mm)
12.00 R 20	4.0	10-12
12.00 R 24	3.0	10-12

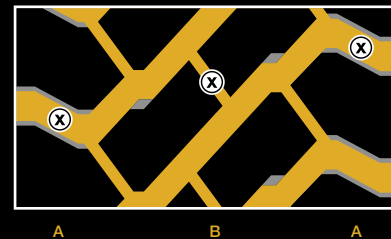
## Regrooving recommendations

HSO SAND



Size	Depth (mm)	Width (mm)
12.00 R 20	4.0	12-14
14.00 R 20	3.0	12-14

HCS



Size	Depth (mm)	Width (mm)
14.00 R 20	4	A:18 B:10
395/85 R 20	4	A:18 B:10
365/85 R 24	4	A:18 B:10

⊗ Tread depth measuring points (§ 36 min. tread depth)

## Maintenance and care

The pre-condition for successful maintenance and care is the correct choice of tire, in accordance with the recommendations of the tire manufacturer. See also previous sections on this subject.

### Storage

Unused tires should be stored in cool, dry, dark and lightly ventilated rooms. Tires which are not fitted on rims should be stored standing up. Avoid contact with fuel, lubricants, solvents and chemicals.

Should tires, tubes and bead flaps need to be stored temporarily, they may age more quickly and develop cracks if they are exposed to intense sunlight or extreme heat. Effective air circulation accelerates this process.

Inner tubes may be particularly affected if their packaging is damaged.

### Fitting the tire

Before demounting a tire, unscrew and remove the valve insert; then wait until all the air has escaped. If a tube-type tire is fitted with an angled valve as per DIN 7786-80 GD 80, unscrew the valve stem and wait until the escaping air ceases to make a noise before removing the tire.

Particular care should be taken when fitting the tire. Only rust-free rims of the right size should be used. These should not be damaged or show any signs of wear and tear. The loose flange side should be examined with great care.

Always use new rubber tubeless valves or new inner tubes and flaps on new tires or new seals for tubeless metal valves.

Take special care after tire repairs: inner tubes stretch in use and may form dangerous folds when re-fitted. If in doubt, always fit new inner tubes in order to avoid tube failure.

It is particularly important with large tires that these should already fit on the rim flange with as little inflation pressure as possible. See also WdK-Guideline 104, where detailed fitting recommendations are given.

**As a guide:**

**When fitting, do not exceed 150% of the maximum standard inflation pressure. Under no circumstances must 10 bar be exceeded. Use only recommended fitting tools and equipment.**

Should the tire bead be jammed on the rim and the pressure be high, the bead may get damaged or even destroyed.

With tube type tires, check that valves still move freely after the filler nozzle has been removed. This is important for later inflation pressure checks under difficult conditions.

Fast-running wheels should be balanced statically and dynamically to ensure smooth running.

### Fitting the wheel on to the vehicle

Vehicle axle data such as toe-in, king pin inclination and castor as well as axle alignment must be checked and if necessary adjusted to within tolerances.

Only then should the wheel be fitted.

When fitting make sure that the axle hub is perfectly centred. Extra care is necessary with large, heavy tires which do not have special centering.

If necessary re-balance the wheel when it is fitted on the vehicle.

Always remember to check that the valves move freely and are easily accessible. Valve extensions are necessary for dual tires.

Checking the inflation pressure requires the free movement and easy access of the valves, even when they have become dirty in operation.

Valve caps, preferably high pressure type, must be fitted.

On rolling road testers where the vehicle performance is examined, restrictive testing regulations must be observed: depending on the roller diameter only short tests may be carried out and these always below maximum speed.

If a vehicle has the same type of tires on all round e.g. radial tires, this will guarantee optimum driving characteristics and maximum driving stability.

The use of different tire designs on each axle should be a rare exception. Where vehicles are being used on the highway, minimum tread depths as specified in the latest national regulations must be observed. For motor vehicles, trailers or semitrailers it is essential that tires of the same construction are fitted to the same axle.

### Minimum tread depth

The legal minimum tread depth is 1.0 mm and must cover the complete width and circumference of the tread. The depth should be measured in the tread groove with the tread wear indicator (the area with the indicator should not be taken).

### Vehicle in operation

The inflation pressure must be correct. Otherwise poor vehicle handling and pronounced, irregular tread wear are inevitable.

If pressure is insufficient, the rolling resistance will increase and with it the fuel consumption. Hidden defects in the tire may also occur which later lead to tire failure.



Tire inflation pressures specified by vehicle and tire manufacturers are contained in the vehicle manual and, for instance, on the vehicle mud guard. These may vary with different loads and service conditions, and must be adjusted before commencing a journey. Specified inflation pressures always apply to cold tires. It is quite normal for the pressure to increase as the tires warm up during driving. Do not reduce pressure when the tires are hot.

Never use different inflation pressures for the same axle.

Pressure checks must be made when the tires are cold. An increase in inflation pressure during running is normal and must never be re-adjusted.

The spare wheel should be inflated to at least the maximum inflation pressure given in the vehicle manual. Remember to always include the spare wheel when checking inflation pressures.

A balanced, even style of driving reduces the strain on the tires. Every hasty reaction on the accelerator, brakes or steering shortens the life of the tires.

The same also applies of course to all other forms of peak strain such as severe scuffing of the tire along the kerb or driving over obstacles that may be in the road. These can all result in damage to the tires construction.

Strain on the tire should be avoided. This has the same effect as insufficient pressure.

Do not exceed the tire's permitted maximum speed, otherwise tire damage is inevitable.

#### **Maintenance and care of the vehicle's tires**

The high quality standard of the tires and vehicle, which is achieved by the measures and recommendations stated above, can only be ensured by regular checking of all factors.

For example, pressure checks and external inspections of the tires (including the sidewalls to the inside of the vehicle and between dual tires).

Pressure checking devices and small replacement parts such as valve inserts, caps and extensions should always be close at hand.

Tires age as a result of physical and chemical processes and this may impair their performance.

Tires, which are fitted to mainly stationary vehicles or those which are not used regularly, are particularly prone to premature ageing.