

## Mechanical suspension.

Tough performer – **economical** in operation.



Page 2 Page 3

### we think transport

The aim of the BPW Group is to provide the best possible support to our customers in the transport and logistics industry. That's why we place the utmost importance in a steadfast orientation towards the needs of the customer. This includes listening to you, ensuring that our solutions meet your individual requirements, and being there for you whatever the situation. For us at BPW, this cooperative aspiration means: we think transport

### **Five brands** – one robust partner.

With the merger into the BPW Group of the BPW, Ermax, HBN Teknik, Hestal and idem telematics brands, we can be a strong partner in every area.

For us, the BPW Group represents the basis for a much more precise coordination of products and services. In this way, we can provide the optimal solutions that support you and your ability to compete.

## Proven BPW **technology**. At home anywhere.

The BPW leaf suspension is right at home where the conditions become a challenge and when the nearest workshop is well out of reach. This is because the VB suspension unit has been designed for difficult road conditions, while any necessary repairs are quick and straightforward. Moreover, the latest generation features an optimised bearing for the connecting rods as well as wear-resistant and durable

spring slides. What is more, the use of proven technology from the series-production BPW air suspension has further simplified installation and in particular the track adjustment. Finally, the precise tracking as well as optimum positioning of connecting rods ensure reduced tyre wear and thus greater operating efficiency.

#### YOUR ADVANTAGES AT A GLANCE:



- > lower tyre wear thanks to precise tracking and optimum positioning of connecting
- > longer product life through an optimised bearing for connecting rods
- > fewer spare parts thanks to greater availability of identical parts from other
- > high level of parts availability through more than 3,200 service partners
- > greater efficiency in the production process through a flexible and homogenous product program
- > clear differentiation from counterfeits thanks to the embossed BPW logo



technology from the proven and series-production BPW air suspension

> improved track adjustment through

- > standard integrated screw torsion protection on the equalising beam and connecting rod bearings
- > embossed installation information
- > easily accessible screw connections

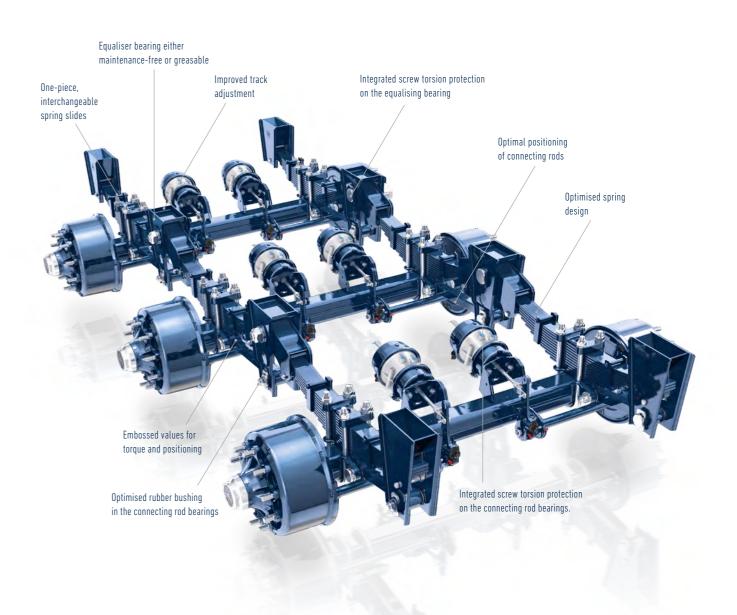


- > Wear-resistant, replaceable one-piece spring slides
- > also possible is top-mounted suspension for low ride height at maximum ground clearance
- > Spring design that is attuned and optimised to the field of application



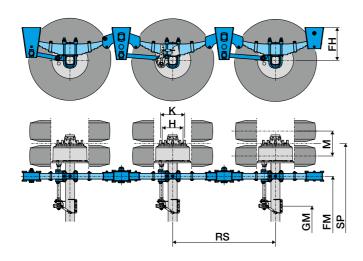
# **Operating efficiency**

for heavy duty work in the 9–12 t range.



### BPW axle assemblies, VB Series.

Axle loads of 9,000 kg to 12,000 kg.



| Triaxle unit   Axle   B-cam   Brake   Camb   Brake   Camb   Cam |                     |        |          |              |     |         |       |                |                           |              |                        |
|--|---------------------|--------|----------|--------------|-----|---------|-------|----------------|---------------------------|--------------|------------------------|
| HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.010 1.200 495 385/65 R22,5 ET 0 HZFVB 9.010 2/9.010 3/9.010 120 SN 4218 1.820 900 335 275/70 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 120 SN 3020 1.830 980 239 245/70 R17,5 M = 290 NHZFVB 12.010 2/12.010 3/12.010 120 SN 3020 1.950 1.100 243 245/70 R17,5 M = 290 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  | Type <sup>1)</sup>  | •      |          | Triaxle unit |     |         | (SP)  | centre<br>(FM) | chamber<br>bracket centre |              | to-centre<br>distance. |
| HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.010 1.200 495 385/65 R22,5 ET 0 HZFVB 9.010 2/9.010 3/9.010 120 SN 4218 1.820 900 335 275/70 R22,5 M = 320 NHZFVB 12.010 2/12.010 120 SN 3020 1.830 980 239 245/70 R17,5 M = 290 NHZFVB 12.010 2/12.010 3/12.010 120 SN 3020 1.950 1.100 243 245/70 R17,5 M = 290 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB" 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB" 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB" 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330   | HSFVB               | 9.010  | 2/9.010  |              | 120 | SN 4218 | 2.040 | 1.300          | 525                       | 385/65 R22,5 | ET 0                   |
| HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.040 1.300 525 385/65 R22,5 ET 0 HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.010 1.200 495 385/65 R22,5 ET 0 HZFVB 9.010 2/9.010 3/9.010 120 SN 4218 1.820 900 335 275/70 R22,5 M = 320 NHZFVB 12.010 2/12.010 120 SN 3020 1.830 980 239 245/70 R17,5 M = 290 NHZFVB 12.010 2/12.010 3/12.010 120 SN 3020 1.950 1.100 243 245/70 R17,5 M = 290 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0 HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.820 900 261 295/80 R22,5 M = 330 HZFVB <sup>11</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330 HZFVB <sup>11</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  | HSFVB               | 9.010  | 2/9.010  | 3/9.010      | 120 | SN 4218 | 2.040 | 1.300          | 525                       | 385/65 R22,5 | ET 0                   |
| HSFVB 9.010 2/9.010 3/9.010 120 SN 4218 2.010 1.200 495 385/65 R22,5 ET 0  HZFVB 9.010 2/9.010 3/9.010 120 SN 4218 1.820 900 335 275/70 R22,5 M = 320  NHZFVB 12.010 2/12.010 120 SN 3020 1.830 980 239 245/70 R17,5 M = 290  NHZFVB 12.010 2/12.010 3/12.010 120 SN 3020 1.950 1.100 243 245/70 R17,5 M = 290  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HZFVB 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330   | HSFVB               | 9.010  | 2/9.010  | 3/9.01 0     | 120 | SN 4218 | 2.040 | 1.300          | 525                       | 385/65 R22,5 | ET 0                   |
| HZFVB         9.010         2/9.010         3/9.010         120         SN 4218         1.820         900         335         275/70 R22,5         M = 320           NHZFVB         12.010         2/12.010          120         SN 3020         1.830         980         239         245/70 R17,5         M = 290           NHZFVB         12.010         2/12.010         3/12.010         120         SN 3020         1.950         1.100         243         245/70 R17,5         M = 290           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HZFVB <sup>III</sup> 12.010         2/12.010         3/12.010         150         SN 4220         1.820         900         261         295/80 R22,5         M = 330           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010  | HSFVB               | 9.010  | 2/9.010  | 3/9.010      | 120 | SN 4218 | 2.040 | 1.300          | 525                       | 385/65 R22,5 | ET 0                   |
| NHZFVB       12.010       2/12.010        120       SN 3020       1.830       980       239       245/70 R17,5       M = 290         NHZFVB       12.010       2/12.010       3/12.010       120       SN 3020       1.950       1.100       243       245/70 R17,5       M = 290         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HZFVB <sup>1)</sup> 12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365 <td>HSFVB</td> <td>9.010</td> <td>2/9.010</td> <td>3/9.010</td> <td>120</td> <td>SN 4218</td> <td>2.010</td> <td>1.200</td> <td>495</td> <td>385/65 R22,5</td> <td>ET 0</td>  | HSFVB               | 9.010  | 2/9.010  | 3/9.010      | 120 | SN 4218 | 2.010 | 1.200          | 495                       | 385/65 R22,5 | ET 0                   |
| NHZFVB         12.010         2/12.010         3/12.010         120         SN 3020         1.950         1.100         243         245/70 R17,5         M = 290           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HZFVB <sup>1)</sup> 12.010         2/12.010         3/12.010         150         SN 4220         1.820         900         261         295/80 R22,5         M = 330           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010         2/12.010         3/12.010         150         SN 4220         2.040         1.300         365         445/65 R22,5         ET 0           HSFVB         12.010 <td>HZFVB</td> <td>9.010</td> <td>2/9.010</td> <td>3/9.010</td> <td>120</td> <td>SN 4218</td> <td>1.820</td> <td>900</td> <td>335</td> <td>275/70 R22,5</td> <td>M = 320</td>   | HZFVB               | 9.010  | 2/9.010  | 3/9.010      | 120 | SN 4218 | 1.820 | 900            | 335                       | 275/70 R22,5 | M = 320                |
| HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.850 980 241 295/80 R22,5 M = 330  HZFVB <sup>1)</sup> 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  | NHZFVB              | 12.010 | 2/12.010 |              | 120 | SN 3020 | 1.830 | 980            | 239                       | 245/70 R17,5 | M = 290                |
| HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.040 1.300 365 445/65 R22,5 ET 0  HSFVB 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 2.000 1.200 325 445/65 R22,5 ET 0  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.850 980 241 295/80 R22,5 M = 330  HZFVB <sup>1)</sup> 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330  | NHZFVB              | 12.010 | 2/12.010 | 3/12.010     | 120 | SN 3020 | 1.950 | 1.100          | 243                       | 245/70 R17,5 | M = 290                |
| HZFVB¹¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HZFVB¹¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB¹¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.850       980       241       295/80 R22,5       M = 330         HZFVB¹¹¹        2/12.010       3/12.010       150       SN 4220       1.820       900       261   | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.040 | 1.300          | 365                       | 445/65 R22,5 | ET 0                   |
| HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HZFVB <sup>1)</sup> 12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB <sup>1)</sup> 2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB <sup>1)</sup> 2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330  | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.040 | 1.300          | 365                       | 445/65 R22,5 | ET 0                   |
| HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HZFVB¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.850       980       241       295/80 R22,5       M = 330         HZFVB¹¹        2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330   | HZFVB <sup>1)</sup> | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 1.820 | 900            | 261                       | 295/80 R22,5 | M = 330                |
| HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.040       1.300       365       445/65 R22,5       ET 0         HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HZFVB¹)       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB¹)       12.010       2/12.010       3/12.010       150       SN 4220       1.850       980       241       295/80 R22,5       M = 330         HZFVB¹)        2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330  | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.040 | 1.300          | 365                       | 445/65 R22,5 | ET 0                   |
| HSFVB       12.010       2/12.010       3/12.010       150       SN 4220       2.000       1.200       325       445/65 R22,5       ET 0         HZFVB¹¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB¹¹¹       12.010       2/12.010       3/12.010       150       SN 4220       1.850       980       241       295/80 R22,5       M = 330         HZFVB¹¹¹        2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330  | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.000 | 1.200          | 325                       | 445/65 R22,5 | ET 0                   |
| HZFVB¹)       12.010       2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330         HZFVB¹)       12.010       2/12.010       3/12.010       150       SN 4220       1.850       980       241       295/80 R22,5       M = 330         HZFVB¹)        2/12.010       3/12.010       150       SN 4220       1.820       900       261       295/80 R22,5       M = 330  | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.040 | 1.300          | 365                       | 445/65 R22,5 | ET 0                   |
| HZFVB <sup>1)</sup> 12.010 2/12.010 3/12.010 150 SN 4220 1.850 980 241 295/80 R22,5 M = 330 HZFVB <sup>1)</sup> 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330   | HSFVB               | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 2.000 | 1.200          | 325                       | 445/65 R22,5 | ET 0                   |
| HZFVB <sup>1)</sup> 2/12.010 3/12.010 150 SN 4220 1.820 900 261 295/80 R22,5 M = 330   | HZFVB <sup>1)</sup> | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 1.820 | 900            | 261                       | 295/80 R22,5 | M = 330                |
|  | HZFVB <sup>1)</sup> | 12.010 | 2/12.010 | 3/12.010     | 150 | SN 4220 | 1.850 | 980            | 241                       | 295/80 R22,5 | M = 330                |
| HZFVB <sup>1)</sup> 2/12.010 3/12.010 150 SN 4220 1.850 980 241 295/80 R22,5 M = 330   | HZFVB <sup>1)</sup> |        | 2/12.010 | 3/12.010     | 150 | SN 4220 | 1.820 | 900            | 261                       | 295/80 R22,5 | M = 330                |
|  | HZFVB <sup>1)</sup> |        | 2/12.010 | 3/12.010     | 150 | SN 4220 | 1.850 | 980            | 241                       | 295/80 R22,5 | M = 330                |

- 1) Trilex version also available: Type designation HIZVB ... Track widths vary according to tyre size and spacer ring.
- 2) Observe any specifications from tyre manufacturers for load index and dimensions.
- 3) For suspension axles, make allowance for dynamic damping and swing angle clearance.
- 4) Weight without wheels and tyres: Weight deviations are within permitted DIN tolerances for respective production processes.

#### OUR SOLUTIONS FOR YOU:

- > for axle loads from nine to twelve tonnes
- > for use with one to three axles
- available with parabolic springs or multi-leaf springs
- galvanisable supports
- > static axle load compensation through equalising beams
- > equalising beams with maintenance-free rubber-steel bushes or greasable bronze bushes available

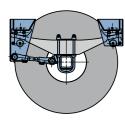
|                                     | Wheel co     | nnaction     |                             |                    |                      | Ride height | (FH) (mm)            | Suspension unit weight <sup>4)</sup> (kg) |                              |                              |                        |  |
|-------------------------------------|--------------|--------------|-----------------------------|--------------------|----------------------|-------------|----------------------|---|------------------------------|------------------------------|------------------------|--|
|                                     | Wileel CO    | IIIIECUUII   |                             |                    | with multi-          | leaf spring | with parab           | olic spring                               | Suspension unit weight" (kg) |                              |                        |  |
| Overall width across the tyres (mm) | Wheel studs  | Ø H / K (mm) | Wheel-<br>base (RS)<br>(mm) | Support<br>version | Loaded <sup>3)</sup> | Unloaded    | Loaded <sup>3)</sup> | Unloaded                                  | Single<br>axle               | Tadem-<br>axle<br>suspension | Tri-axle<br>suspension |  |
| 2.435                               | 10 x M22x1,5 | 280,8 / 335  | 1.310                       | niedrig            |                      |             | 232                  | 256                                       | 427                          | 896                          |                        |  |
| 2.435                               | 10 x M22x1,5 | 280,8 / 335  | 1.310                       | mittel             |                      |             | 268                  | 292                                       | 430                          | .891                         | 1.353                  |  |
| 2.435                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | mittel             | 337                  | 379         |                      |   | 489                          | 1.009                        | 1.530                  |  |
| 2.435                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 367                  | 409         |                      |   | 494                          | 1.015                        | 1.536                  |  |
| 2.405                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 367                  | 409         |                      |   | 493                          | 1.013                        | 1.533                  |  |
| 2.432                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 367                  | 409         |                      |   | 491                          | 1.009                        | 1.527                  |  |
| 2.365                               | 10 x M22x1,5 | 175,8 / 225  | 1.310                       | niedrig            |                      |             | 232                  | 256                                       | 429                          | 900                          |                        |  |
| 2.485                               | 10 x M22x1,5 | 175,8 / 225  | 1.310                       | mittel             |                      |             | 268                  | 292                                       | 445                          | .921                         | 1.368                  |  |
| 2.505                               | 10 x M22x1,5 | 280,8 / 335  | 1.310                       | hoch               |                      |             | 313                  | 337                                       | 502                          | 1.031                        | 1.560                  |  |
| 2.505                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               |                      |             | 388                  | 412                                       | 529                          | 1.084                        | 1.640                  |  |
| 2.465                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               |                      |             | 388                  | 412                                       | 530                          | 1.086                        | 1.643                  |  |
| 2.505                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | mittel             | 375                  | 417         |                      |   | 578                          | 1.189                        | 1.799                  |  |
| 2.465                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | mittel             | 375                  | 417         |                      |   | 577                          | 1.187                        | 1.796                  |  |
| 2.505                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 405                  | 447         |                      |   | 584                          | 1.194                        | 1.805                  |  |
| 2.465                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 405                  | 447         |                      |   | 583                          | 1.192                        | 1.802                  |  |
| 2.465                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 405                  | 447         |                      |   | 585                          | 1.196                        | 1.808                  |  |
| 2.495                               | 10 x M22x1,5 | 280,8 / 335  | 1.360                       | hoch               | 405                  | 447         |                      |   | 592                          | 1.210                        | 1.829                  |  |
| 2.465                               | 10 x M22x1,5 | 280,8 / 335  | 1.820                       | hoch               | 405                  | 447         |                      |   |                              | 1.232                        | 1.879                  |  |
| 2.495                               | 10 x M22x1,5 | 280,8 / 335  | 1.820                       | hoch               | 405                  | 447         |                      |   |                              | 1.246                        | 1.900                  |  |

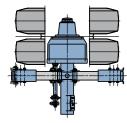
For higher axle loads, choose the tried and tested ECO Cargo VB HD. Please get in touch for more information.

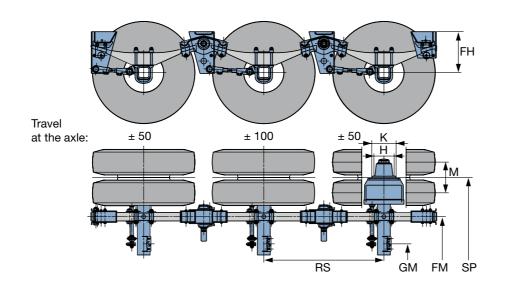
Please consult with BPW about offers for 4-axle combinations.

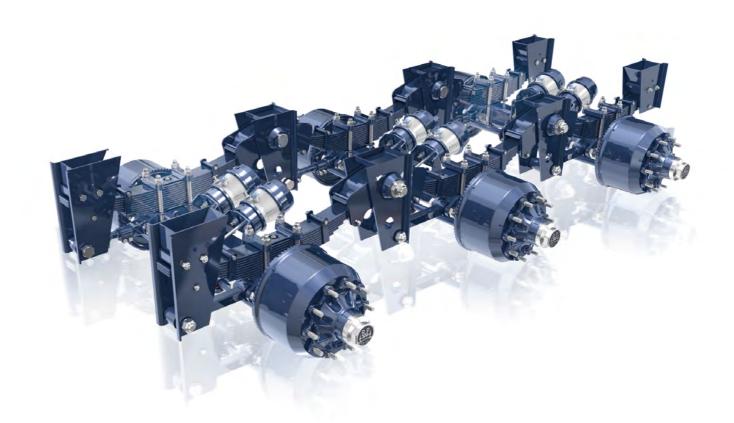
### BPW axle assemblies, VB HD Series.

Axle loads of 14,000 kg to 20,000 kg.









|                    |             |                           |              |                       |                          |                    |                                  |  |                        |                                    |   |                                | wheet conhection |              | Kide Height (FR) (IIIIII) |          | Suspension unit weight" (kg) |                              | Jiit (Ng/              |
|--------------------|-------------|---------------------------|--------------|-----------------------|--------------------------|--------------------|----------------------------------|--|------------------------|------------------------------------|---|--------------------------------|------------------|--------------|---------------------------|----------|------------------------------|------------------------------|------------------------|
| Type <sup>1)</sup> | Single axle | Tandem-axle<br>suspension | Triaxle unit | Version <sup>2)</sup> | S-cam brake<br>Ø x width | Track (SP)<br>(mm) | Spring<br>centre<br>(FM)<br>(mm) | Brake<br>chamber<br>bracket<br>centre (GM)<br>(mm) | Wheelbase<br>(RS) (mm) | Example<br>tyre <sup>3)</sup> (mm) | M =<br>Centre-to-<br>centre<br>distance | Overall width across the tyres | Wheel stud       | Ø H / K (mm) | Loaded <sup>4)</sup>      | Unloaded | Single<br>axle               | Tadem-<br>axle<br>suspension | Tri-axle<br>suspension |
| HZFVB              |             | 2/14.010                  | 3/14.010     | HD/HDE                | SN 420 x 200             | 1.820              | 900                              | 266  | 1.360                  | 12 R20                             | M = 350                                 | 2.496                          | 10 x M22 x 1,5   | 280,8 / 335  | 430                       | 475      |                              | 1.527                        | 2.300                  |
| HZFVB              |             | 2/14.010                  | 3/14.010     | HD/HDE                | SN 420 x 200             | 1.820              | 900                              | 266  | 1.410                  | 12 R24                             | M = 360                                 | 2.509                          | 10 x M22 x 1,5   | 280,8 / 335  | 435                       | 480      |                              | 1.548                        | 2.331                  |
| HZFVB              | 14.010      | 2/14.010                  | 3/14.010     | HD/HDE                | SN 420 x 200             | 1.820              | 900                              | 266  | 1.500                  | 12 R24                             | M = 360                                 | 2.509                          | 10 x M22 x 1,5   | 280,8 / 335  | 455                       | 500      | 814                          | 1.592                        | 2.432                  |
| HZMVB              |             | 2/16.010                  | 3/16.010     | HDE                   | SN 420 x 200             | 1.820              | 900                              | 261  | 1.360                  | 12 R20                             | M = 350                                 | 2.496                          | 10 x M22 x 1,5   | 280,8 / 335  | 475                       | 500      |                              | 1.640                        | 2.4 69                 |
| HZMVB              |             | 2/16.010                  | 3/16.010     | HDE                   | SN 420 x 200             | 1.950              | 900                              | 281  | 1.410                  | 12 R24                             | M = 360                                 | 2.639                          | 10 x M22 x 1,5   | 280,8 / 335  | 460                       | 495      |                              | 1.678                        | 2.525                  |
| HZMVB              |             | 2/16.010                  | 3/16.010     | HDE                   | SN 420 x 200             | 2.250              | 1.200                            | 505  | 1.500                  | 12 R24                             | M = 360                                 | 2.939                          | 10 x M22 x 1,5   | 280,8 / 335  | 490                       | 530      |                              | 1.767                        | 2.659                  |
| HZMVB              | 16.010      | 2/16.010                  | 3/16.010     | HDE                   | SN 420 x 200             | 1.820              | 900                              | 261  | 1.500                  | 12 R24                             | M = 360                                 | 2.509                          | 10 x M22 x 1,5   | 280,8 / 335  | 490                       | 530      | 864                          | 1.715                        | 2.581                  |
| HZMVB              | 18.010      | 2/18.010                  | 3/18.010     | HDE                   | SN 420 x 200             | 1.820              | 900                              | 261  | 1.500                  | 12 R24                             | M = 360                                 | 2.496                          | 10 x M22 x 1,5   | 280,8 / 335  | 460                       | 480      |                              | 1.735                        | 2.612                  |
| HZMVB              | 18.010      | 2/18.010                  | 3/18.010     | HDE                   | SN 420 x 200             | 1.950              | 900                              | 281  | 1.500                  | 14 R20                             | M = 428                                 | 2.776                          | 10 x M22 x 1,5   | 280,8 / 335  | 460                       | 480      |                              | 1.757                        | 2.645                  |
| HZMVB              | 18.010      | 2/18.010                  | 3/18.010     | HDE                   | SN 420 x 200             | 2.320              | 1.200                            | 407  | 1.500                  | 14 R20                             | M = 428                                 | 3.146                          | 10 x M22 x 1,5   | 280,8 / 335  | 460                       | 480      | 940                          | 1.817                        | 2.735                  |
| HZMVB              | 20.010      | 2/20.010                  | 3/20.010     | HDE                   | SN 420 x 200             | 1.950              | 900                              | 278  | 1.500                  | 14 R20                             | M = 428                                 | 2.776                          | 10 x M24 x 1,5   | 280,8 / 335  | 455                       | 480      |                              | 1.885                        | 2.837                  |
| HZMVB              | 20.010      | 2/20.010                  | 3/20.010     | HDE                   | SN 420 x 200             | 2.200              | 1.100                            | 354  | 1.500                  | 14 R20                             | M = 428                                 | 3.026                          | 10 x M24 x 1,5   | 280,8 / 335  | 455                       | 480      |                              | 1.931                        | 2.906                  |
| HZMVB              | 20.010      | 2/20.010                  | 3/20.010     | HDE                   | SN 420 x 200             | 2.400              | 1.300                            | 554  | 1.500                  | 14 R20                             | M = 428                                 | 3.226                          | 10 x M24 x 1,5   | 280,8 / 335  | 455                       | 480      | 1.015                        | 1.967                        | 2.960                  |

Also available as Trilex version.

1) Trilex version also available: Type designation HIZVB ... Track widths vary according to tyre size and spacer ring.

2) HD: Equaliser bearing in rubber/steel bushes / HDE: Equaliser bearing in bronze bushes.

<sup>3)</sup> Observe any specifications from tyre manufacturers for load index and dimensions.

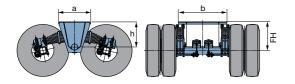
<sup>4)</sup> For suspension axles, make allowance for dynamic damping and swing angle clearance.

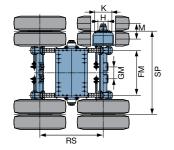
<sup>5)</sup> Weight without wheels and tyres: Weight deviations are within permitted DIN tolerances for respective production processes.

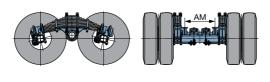
Page 10 ECO Cargo W Page 11

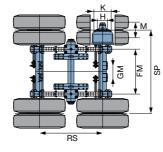
### BPW axle suspension, W Series.

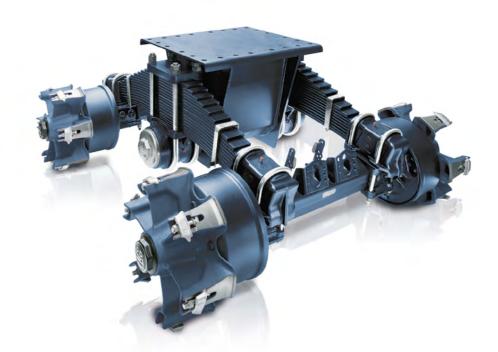
Axle loads from 20,000 kg to 40,000 kg.











|                              |                                      |                          |                       |                                  |         |                                |                                  |                        | Ride height (FH) (mm) |          | Wheel con      | nection     |                            |                                  |                                      |   |
|------------------------------|--------------------------------------|--------------------------|-----------------------|----------------------------------|---------|--------------------------------|----------------------------------|------------------------|-----------------------|----------|----------------|-------------|----------------------------|----------------------------------|--------------------------------------|---|
| Туре                         | Axle loads up<br>to 105 km/h<br>(kg) | S-cam brake<br>Ø x width | Track<br>(SP)<br>(mm) | Spring<br>centre<br>(FM)<br>(mm) | GM (mm) | Support<br>center<br>(AM) (mm) | High support<br>(a x b x h) (mm) | Wheelbase<br>(RS) (mm) | Loaded                | Unloaded | Wheel stud     | Ø H/K (mm)  | Example tyre <sup>3)</sup> | Center-to-center<br>distance (M) | Overall width across then tyres (mm) | Suspension<br>unit weight <sup>4)</sup><br>(kg) |
| HZFW 2/10010                 | 20.000                               | SN 420 x 200             | 1.820                 | 980                              | 261     | 660                            |                                  | 1.400                  | 213                   | 253      | 10 x M22 x 1,5 | 280,8 / 335 | 11 R20                     | M = 348                          | 2.482                                | 1.650   |
| HZFW 2/10010                 | 20.000                               | SN 420 x 200             | 1.820                 | 980                              | 261     |                                | 700 x 1.060 x 550                | 1.400                  | 588                   | 628      | 10 x M22 x 1,5 | 280,8 / 335 | 11 R20                     | M = 348                          | 2.482                                | 1.840   |
| HZFW 2/12010 B <sup>1)</sup> | 24.000                               | SN 420 x 200             | 1.820                 | 980                              | 261     | 660                            |                                  | 1.400                  | 213                   | 253      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R20                     | M = 350                          | 2.496                                | 1.710   |
| HZFW 2/12010 B <sup>1)</sup> | 24.000                               | SN 420 x 200             | 1.820                 | .980                             | 260     |                                | 700 x 1.060 x 600                | 1.400                  | 638                   | 678      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R20                     | M = 350                          | 2.496                                | 1.862   |
| HZFW 2/12010 C <sup>2)</sup> | 24.000                               | SN 420 x 200             | 1.820                 | 980                              | 261     | 660                            |                                  | 1.500                  | 207                   | 253      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 360                          | 2.509                                | 1.650   |
| HZFW 2/12010 C <sup>2)</sup> | 24.000                               | SN 420 x 200             | 1.820                 | .980                             | 261     |                                | 700 x 1.060 x 600                | 1.500                  | 630                   | 675      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 360                          | 2.509                                | 1.820   |
| HZ(M)W 2/14010-1             | 28.000                               | SN 420 x 200             | 1.820                 | 900                              | 266     | 520                            |                                  | 1.500                  | 191                   | 262      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R20                     | M = 350                          | 2.496                                | 2.073   |
| HZ(M)W 2/14010-1             | 28.000                               | SN 420 x 200             | 1.820                 | 900                              | 266     |                                | 800 x 980 x 600                  | 1.500                  | 605                   | 661      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R20                     | M = 350                          | 2.496                                | 2.262   |
| HZ(M)W 2/14010-1             | 28.000                               | SN 420 x 200             | 1.920                 | 900                              | 290     | 520                            |                                  | 1.650                  | 191                   | 262      | 10 x M22 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.746                                | 2.203   |
| HZ(M)W 2/14010-1             | 28.000                               | SN 420 x 200             | 1.920                 | 900                              | 290     |                                | 800 x 980 x 600                  | 1.650                  | 591                   | 662      | 10 x M22 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.746                                | 2.385   |
| HZMW 2/16010                 | 32.000                               | SN 420 x 200             | 1.800                 | 900                              | 241     | 520                            |                                  | 1.550                  | 212                   | 259      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.489                                | 2.385   |
| HZMW 2/16010                 | 32.000                               | SN 420 x 200             | 1.800                 | 900                              | 241     |                                | 800 x 980 x 600                  | 1.550                  | 610                   | 657      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.489                                | 2.575   |
| HZMW 2/16010                 | 32.000                               | SN 420 x 200             | 2.150                 | 1.150                            | 367     | 770                            |                                  | 1.550                  | 210                   | 257      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.839                                | 2.457   |
| HZMW 2/16010                 | 32.000                               | SN 420 x 200             | 2.150                 | 1.150                            | 367     |                                | 800 x 1.230 x 600                | 1.550                  | 610                   | 660      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.839                                | 2.638   |
| HZMW 2/18010                 | 36.000                               | SN 420 x 200             | 1.800                 | 900                              | 241     | 520                            |                                  | 1.550                  | 212                   | 259      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.489                                | 2.422   |
| HZMW 2/18010                 | 36.000                               | SN 420 x 200             | 1.800                 | .900                             | 241     |                                | 800 x 980 x 600                  | 1.550                  | 612                   | 659      | 10 x M22 x 1,5 | 280,8 / 335 | 12 R24                     | M = 350                          | 2.489                                | 2.545   |
| HZMW 2/18010                 | 36.000                               | SN 420 x 200             | 2.150                 | 1.150                            | 367     | 770                            |                                  | 1.550                  | 212                   | 259      | 10 x M22 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.976                                | 2.507   |
| HZMW 2/18010                 | 36.000                               | SN 420 x 200             | 2.150                 | 1.150                            | 367     |                                | 800 x 1.230 x 600                | 1.550                  | 612                   | 659      | 10 x M22 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.976                                | 2.619   |
| HZMW 2/20010                 | 40.000                               | SN 420 x 200             | 1.900                 | 900                              | 278     |                                | 800 x 980 x 700                  | 1.550                  | 712                   | 759      | 10 x M24 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.726                                | 2.737   |
| HZMW 2/20010                 | 40.000                               | SN 420 x 200             | 2.100                 | 1.150                            | 254     | 770                            |                                  | 1.550                  | 212                   | 259      | 10 x M24 x 1,5 | 280,8 / 335 | 14 R20                     | M = 428                          | 2.926                                | 2.577   |

Trilex version also available.
1) Version for heavy-duty use.
2) Version for road use.

<sup>3)</sup> Observe any specifications from tyre manufacturers for load index and dimensions.

<sup>4)</sup> Weight without wheels and tyres: Weight deviations are within permitted DIN tolerances for respective production processes.

we think transport - we think - we thi

