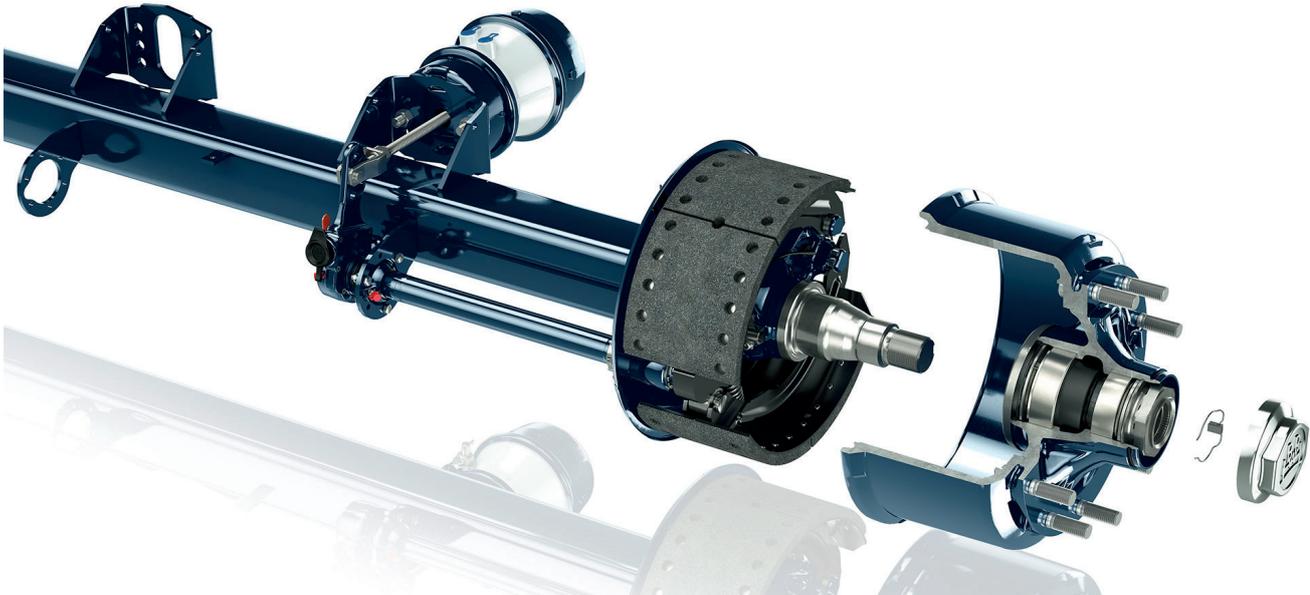




ECO Plus 3 series launch

On the 15 May 2015, BPW started the launch of the 9t ECO Plus 3 bearing technology with the introduction of the offset 120 version for disc brake (offset 120 - Wheel End). The launch introduced the continuous hub flange and open spoke design (offset 120).



The continued advantages of the ECO Plus series technology are:

- Maintenance-free, closed bearing system: 5 + 3 years ECO Plus warranty with unlimited mileage.
- Automatically set bearing pre-load by central axle nut with integrated torque limiter.
- Easy and quick to remove and install using the Formula 1 principle with the central axle nut.
- Globally available DIN ISO tapered roller bearings.
- Easy greasing of the bearings via the grease cartridge.
- Improved sealing by new robust ECO seal and threaded hub cap with "O" ring seal.

From October 2015, BPW will launch the ECO Plus 3 bearing technology for ECO Drum and ECO Disc (offset 0) braked axles, for 22.5" wheels. The introduction of the new ECO Plus series technology will allow BPW to standardise the designs of the booster bracket and the brake camshaft in the drum brake.

This will considerably streamline the drum brake product portfolio, adapting it to the needs of the current market and making the customer process more efficient.

The standardisation of the brake camshaft and the booster brackets versions only affect 9t ECO Plus 3 rigid axles with drum brakes. Other tonnage or versions (steering axles, stub axles, swing axles) are not affected.

For spare parts requirements, previous brake camshafts and booster brackets are still available.

From 1 March 2016, the final phase of the ECO Plus 3 series launch will include the conversion of the two wheel ends 19.5" with wheel connection 8/275 and 17.5" with wheel connection 10/225.

Important: Please note the following technical changes with ECO Plus 3

1.1 Exciter ring with 90 teeth

All disc brake ECO Plus 3 versions will be fitted with an exciter ring and will be prepared for retrofitting an ABS-sensor.

In comparison to previous ECO Plus 2 versions all ECO Plus 3 exciter rings will have 90 teeth. Please consider this when setting the EBS parameters to your vehicle.

2.2 Wheel studs with 93mm

The 93mm wheel bolts, which were introduced in 2012 with the ECO Air Compact, will also now be used in the ECO Plus 3 axles.

3.3 New ECO METER

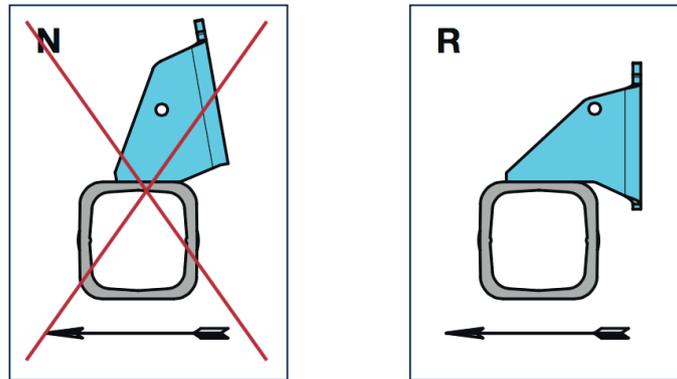
Introduction of the new ECO METER variants for the corresponding tyre sizes:

No.	ECO Plus 3	Rolling Circumference	Tyre Dimension
1	05.212.75.10.0	2170	205/65 R17,5
2	05.212.75.11.0	2350	215/75 R17,5
3	05.212.75.12.0	2425	235/75 R17,5
4	05.212.75.13.0	2560	245/70 R19,5
5	05.212.75.14.0	2620-2650	265/70 R19,5
6	05.212.75.15.0	2712-2750	285/70 R19,5
7	05.212.75.16.0	2730-2790	445/45 R19,5 285/70 R19,5 385/55 R19,5
8	05.212.75.17.0	2830-2860	435/55 R19,5
9	05.212.75.18.0	2915	275/70 R22,5
10	05.212.75.19.0	2960	425/55 R19,5
11	05.212.75.20.0	3015-3134	315/70 R22,5 385/55 R22,5
12	05.212.75.21.0	3175-3220	11.00 R22,5 10.00 R20
13	05.212.75.22.0	3240-3260	385/65 R22,5
14	05.212.75.23.0	3280-3310	12.00 R22,5
15	05.212.75.24.0	3410-3470	13.00 R22,5
16	05.212.75.25.0	3505	445/65 R22,5



4.4 Unification of the booster brackets types N and R

The two booster bracket types now differ only by a small angular position of 10°, which was originally used for the drainage of brake cylinders. Since cylinders all now have drainage holes, such a position is no longer needed. Because of this, the booster brackets can be converted to the R-type as a new standard, which offers significantly more space in the upper area.

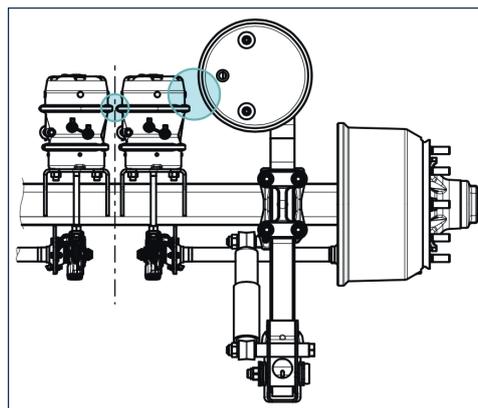


5.5 Unification of camshaft lengths

Within the BPW running gear, the length of the camshaft is influenced by the minimum booster bracket centres and the space between cylinders and air bags (see figure below).

In future, BPW offers within these two space limitations, a standard length for single and for twin wheels.

If a different camshaft length is required in vehicle construction for reasons of space (e.g. large booster bracket centres for vehicles with space requirements in the middle of the vehicle), there are 2 further optional lengths.



Please note the following points:

- The combination of the old ECO Plus 2 modules and the new ECO Plus 3 modules within the same vehicle is possible.
- Aftermarket: There is no compatibility of single components (e.g. hub caps, axle bolts) between ECO Plus 2 and ECO Plus 3. For this reason, ECO Plus 2 components and Wheel Ends will still be available in the aftermarket.

Our Technical Services Department can provide you with any further information required. Contact **0116 281 6199** or email **engineering@bpw.co.uk**