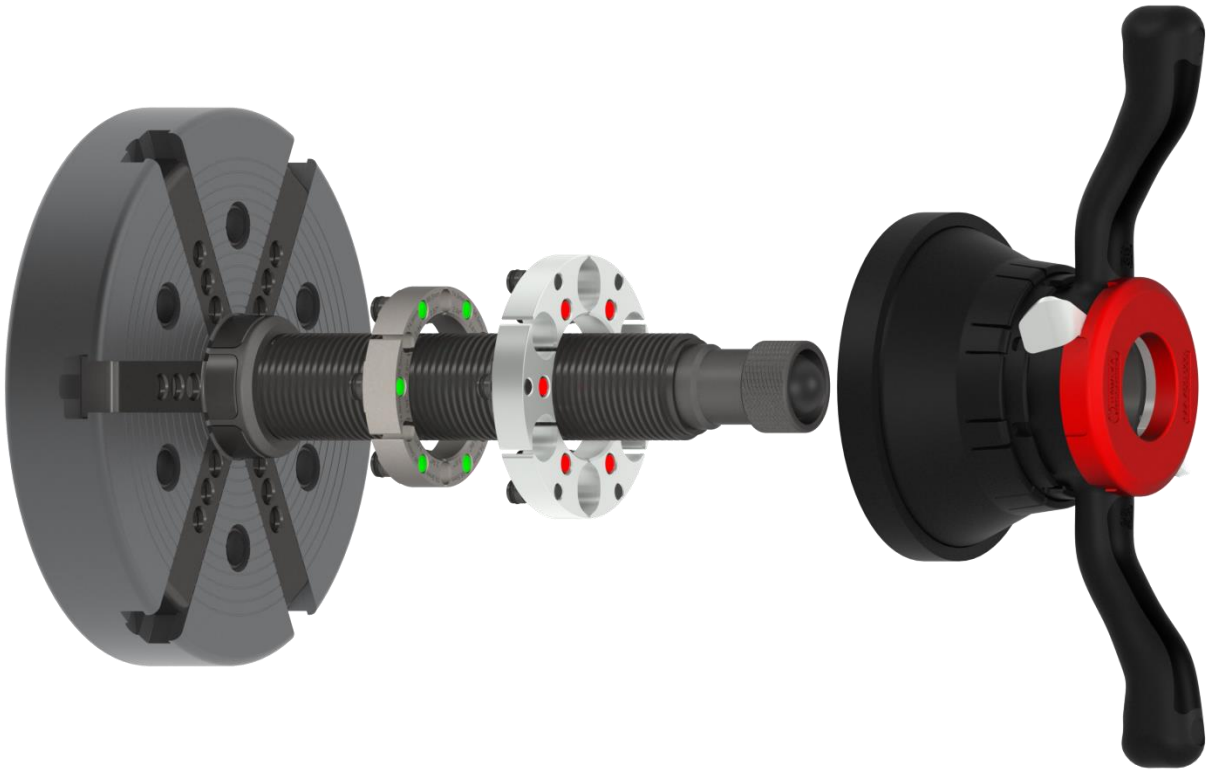
QuickHub

Universal mid centring

Installation and operating instructions



(translation of the original operating instructions)

MAL 105 006

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1. Intended use

The **QuickHub** universal mid centring device is used instead of the standard main body or the threaded shaft on a wheel balancing machine (in the following referred to as “balancing machine”) and allows centring of the vehicle wheels without additional centring sleeves or cones.

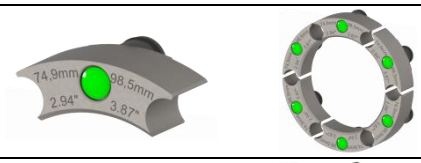
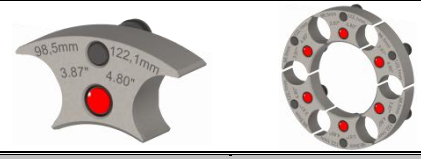
In conjunction with an optional flange plate adapter (e.g. QuickPlate) and the supplied quick-release nut (SoftGrip), the vehicle wheel is centred by the centre hole in the vehicle rim during wheel mounting on the balancing machine.

The universal mid centring **QuickHub** is designed for wheels on passenger cars, off-road vehicles and light truck and can accommodate **vehicle wheels up to max. 65 kg**.

Important information for using the QuickHub!

For calibrating the balancing machine, the QuickHub has to be removed and the original machine flange re-installed.
Calibration is carried out according to the information from the balancing machine manufacturer.

The continuous centring of the QuickHub covers the following clamping ranges for the wheel centre hole:

QuickHub	Clamping range diam. [mm]	View
QuickHub without expansion	53.5 – 77.1	---
With expansion unit 1 Colour: Green (article no. 100e008 039)	74.9 – 98.5	
With expansion unit 2 Colour: Red (article no. 100e008 038)	98.5 – 122.1	
Optional accessories		
With expansion unit 3 Colour: Blue (article no. 100e008 037)	123.5 – 147.1	
With expansion unit 4 Colour: Orange (article no. 100e008 036)	147.9 – 171.5	

2. Different designs of the QuickHub

The QuickHub is available in different versions depending on the type of balancing machine.

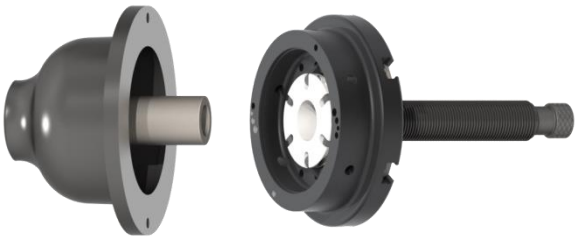
1) **Conical** shaft connection on the balancing machine

QuickHub	
Article no.	**suitable for:**
105 818 004	All balancing machines with conical connection

2) **Cylindrical** shaft connection on the balancing machine with "**short pin**" on the holding flange.

QuickHub	
Article no.	**suitable for:**
105 447 004	Bright
105 589 004	Pneumatic machines: Cemb ø40 Hofmann Megaplan TipTop
105 589 005	Cemb ø40 Hofmann Megaplan TipTop
105 618 004	Hunter GSP DSP series
105 627 004	Ravaglioli / Butler / Space
105 957 004	JBC

3) **Cylindrical** shaft connection on the balancing machine with "**long pin**" on the holding flange.



QuickHub	
Article no.	**suitable for:**
105 907 004	Corghi Standard

3. Installation on the balancing machine

Depending on the balancing machine type, the QuickHub is mounted in different ways.

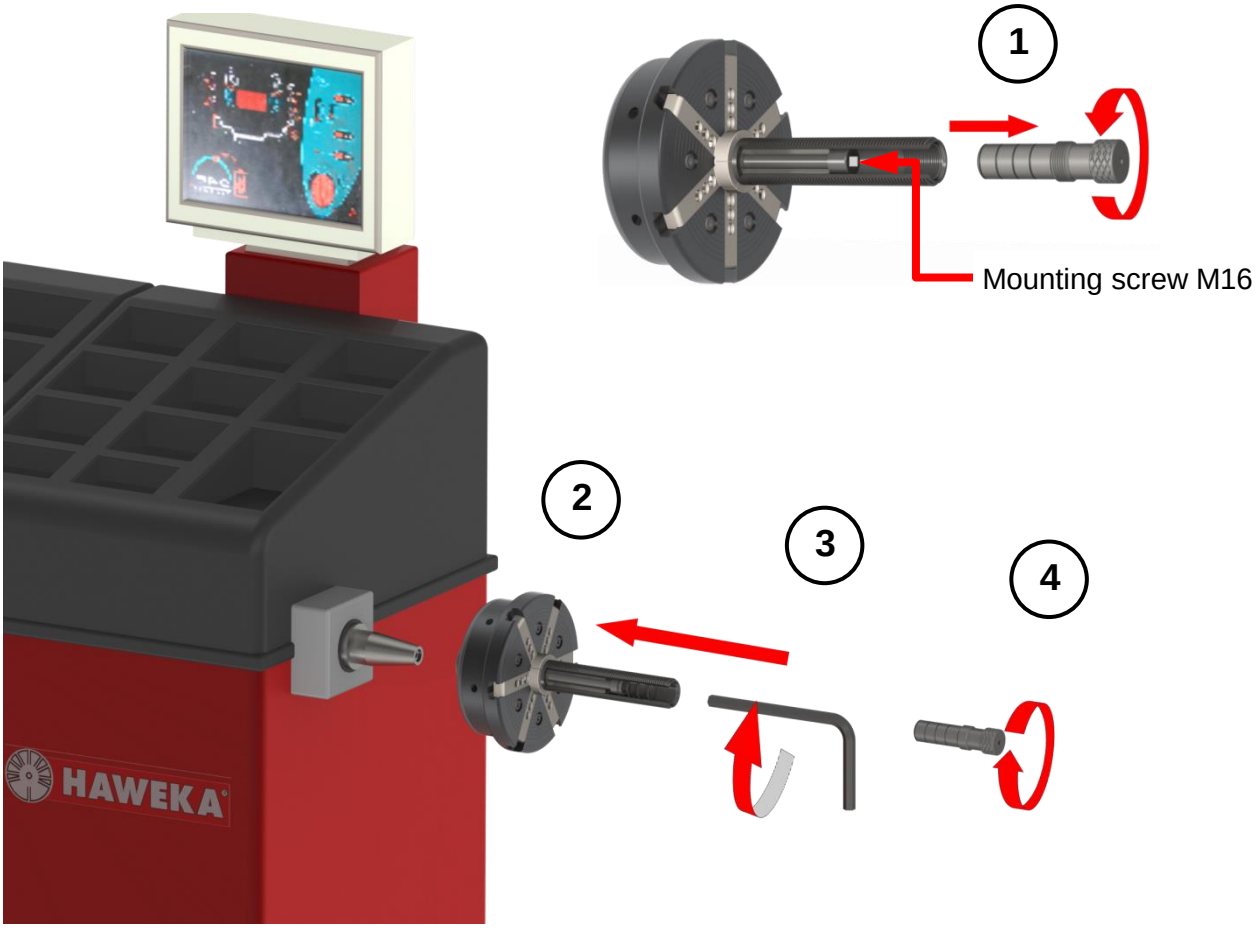
3.1 Mounting on conical shaft connection

Remove the existing main body from the balancing machine.

- For this, release the hexagon socket screw in the shaft with the Allen key and remove the main body from the machine connection.

For correct mounting, the conical contact surface of the machine shaft has to be cleaned thoroughly with a rag before mounting the QuickHub.

- Unscrew the quick adjuster from the QuickHub shaft (1).
- Position the QuickHub on the machine flange (2).
- Tighten the QuickHub with the mounting screw (3).
- Screw the quick adjuster back into the shaft (4).



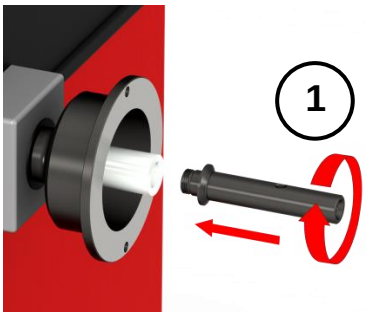
See item 4 for use of the QuickHub.

3.2 Mounting on the cylindrical shaft connection with short pin on the flange

Remove the existing shaft off the main body of the balancing machine.

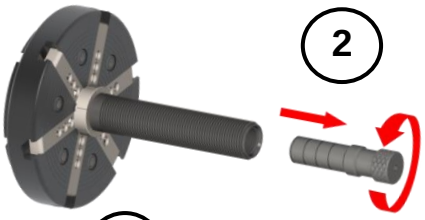
- Remove the shaft according to the operating instructions from the balancing machine manufacturer.

> The feed shaft has to be moved out for electro-pneumatic machines.

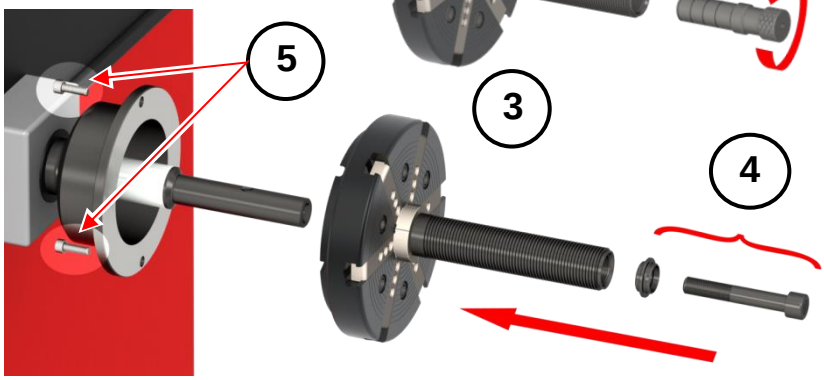


- Mount a new machine connection pin (1) on the machine flange and tighten using a suitable rod.
- Unscrew the quick adjuster from the QuickHub shaft (2).

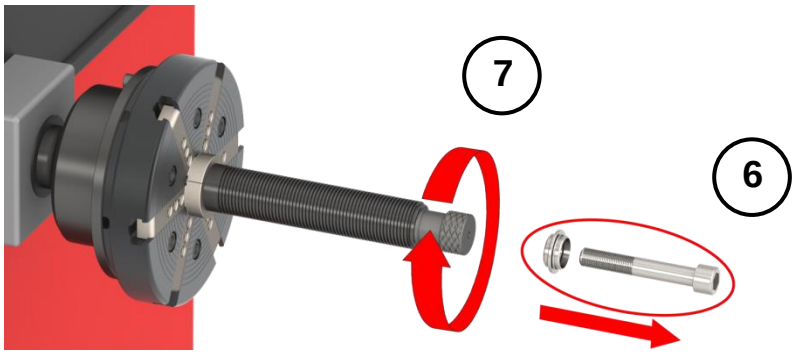
> The QuickHub is mounted on the balancing machine with an adapter disc and mounting screw.



- Push the QuickHub onto the machine connection pin (3).
- Insert the adapter disc into the shaft hole and tighten the QuickHub with the mounting screw (4) until the contact plate of the QuickHub rests against the main body of the balancing machine.
- Secure the QuickHub to the main body of the balancing machine using 2 hexagon socket screws (5).



- Remove the mounting screw and adapter disc (6).
- Screw the quick adjuster back into the shaft (7).



See item 4 for use of the QuickHub.

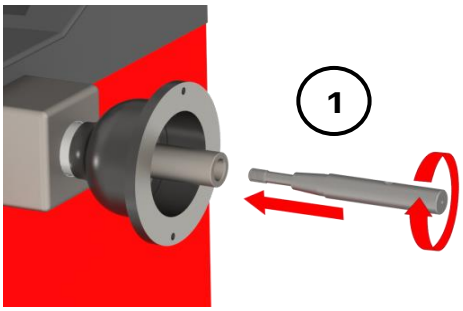
3.3 Mounting on the cylindrical shaft connection with long pin on the flange

Remove the existing shaft off the main body of the balancing machine.

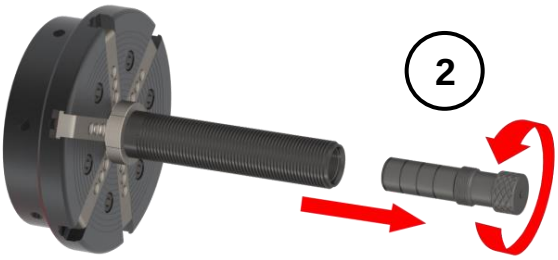
- Remove the shaft according to the operating instructions from the balancing machine manufacturer.

> The feed shaft has to be moved out for electro-pneumatic machines.

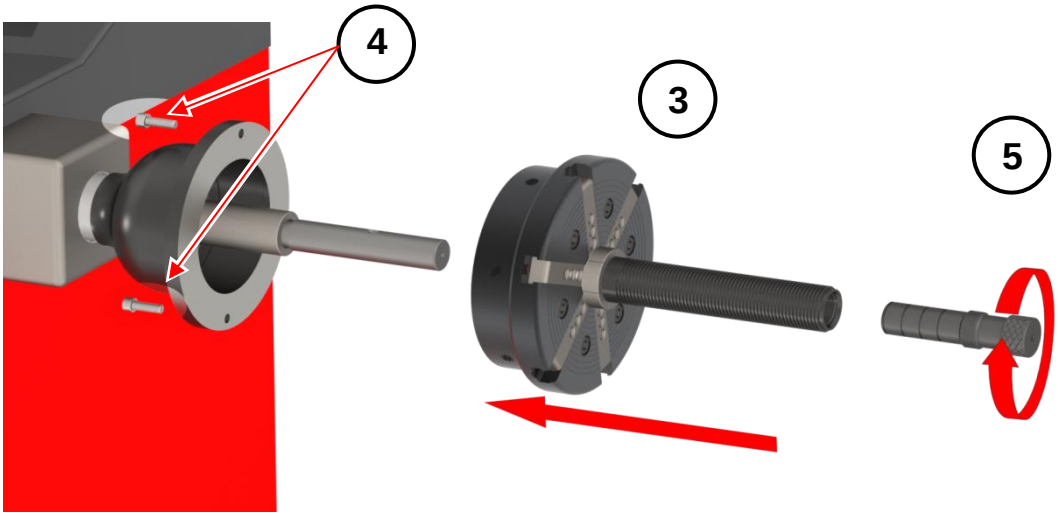
- Mount a new machine connection pin (1) on the machine flange and tighten using a suitable rod.



- Unscrew the quick adjuster from the QuickHub shaft (2).



- Push the QuickHub onto the machine connection pin (3).
- Secure the QuickHub to the main body of the balancing machine using 2 hexagon socket screws (4).
- Screw the quick adjuster back into the shaft (5).



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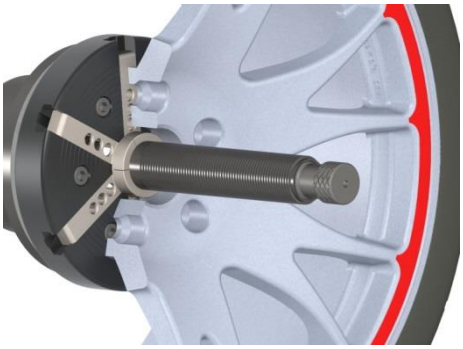
4. Using the QuickHub

4.1 First mounting of the vehicle wheel

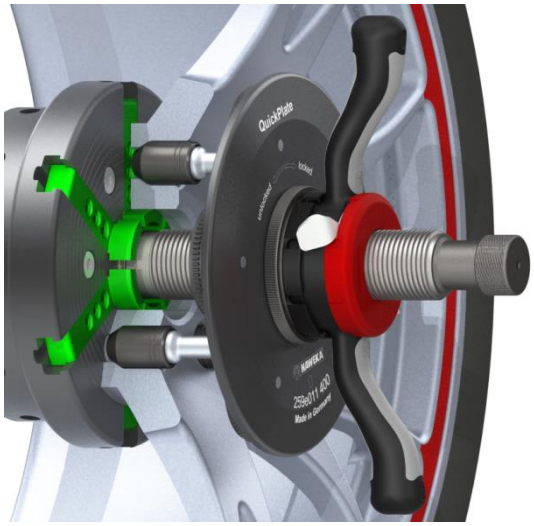
- Unscrew the quick adjuster of the QuickHub (1) until there is no more pre-tension on the shaft and all 6 segments of the QuickHub are closed in their home position.

This makes the ring diameter of the QuickHub, before tensioning, smaller than the diameter of the wheel centre hole and the wheel can rest flush against the level surface of the QuickHub.



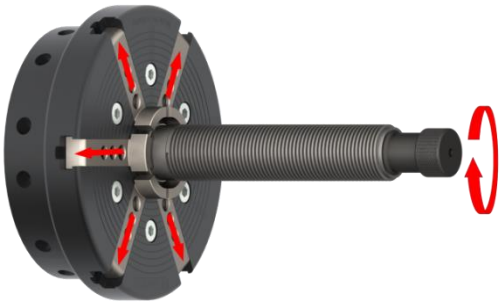
- The vehicle wheel is clamped on the balancing machine as usual, using the flange plate adapter (e.g, QuickPlate) and quick-release nut (SoftGrip).

Tightening the wheel spreads the segments of the QuickHub evenly and centres the vehicle wheel on the shaft.



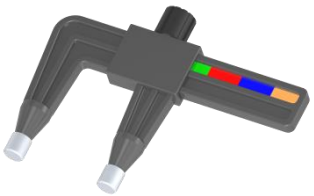
- When the vehicle wheel is mounted on the shaft, the usual balancing procedure on the balancing machine can start.

If the same wheel type with the same centre hole diameter is being balanced, the quick adjuster can be used to put pre-tension on the shaft.
This spreads the segments a little even before the wheel is mounted and shortens the centring procedure when clamping the wheel.



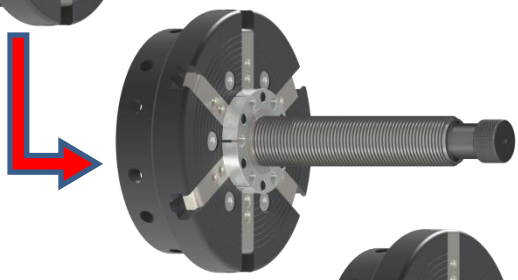
For wheels with a larger centre hole, the expansion sets can be used to extend the clamping range of the QuickHub.
For this, 6 identical clamping jaws are inserted into the lugs of the QuickHub to extend the clamping range.

The pitch circle gauge can be used to determine which expansion set is required for the rim centre hole.

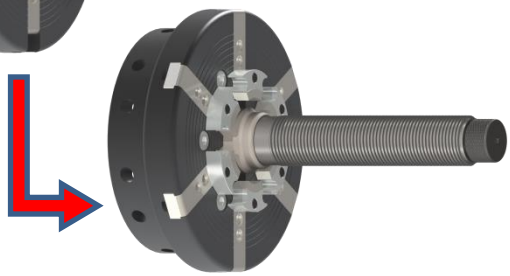


Without expansion

With expansion set 1



Maximum clamping range with expansion set 1.



Clamping ranges of the expansion sets 1 - 4, see table on page 2.

Subject to technical modifications.
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Figures: **HAWEKA AG** / D-30938 Burgwedel
V 1.2