

## Renishaw Select a Division

### Product bulletin number: PBC-02315

<b>Title:</b>	PHS range (update 1)		
<b>Product:</b>	PHS1 and PHS-2	<b>Issue Date:</b>	13/08/2019
	<b>Name</b>	<b>Signature:</b>	
<b>Originator:</b>	Dave Joynson	Dave Joynson	
<b>Reviewer:</b>	Andy Holding	Andy Holding	
<b>Confidentiality:</b>	Open	<b>Type:</b>	Product Information

#### Summary:

PHS1 and associated arms have been superseded by the new PHS-2 and a new range of arms. This bulletin details the new part numbers associated with PHS-2 and the support options available to users of PHS1.

[Update 1 to original product bulletin dated 13/08/2008](#)

#### Distribution – Select at least one

Subsidiaries       Customers       Service centres       OEMs, Agents & Distributors

#### Detail:

Renishaw has developed the PHS-2 servo head as a modern replacement for the PHS1 which has been for sale since 1999.

The PHS-2 head uses the same precision bearings and backlash free gearboxes as the PHS1 and as a result provides the same outstanding performance whilst offering two new features.

The new PHS-2 arms are fully interchangeable with the PHS1 arms i.e. both arm types operate on both head types and provide the same reach and clearance – see figure 2

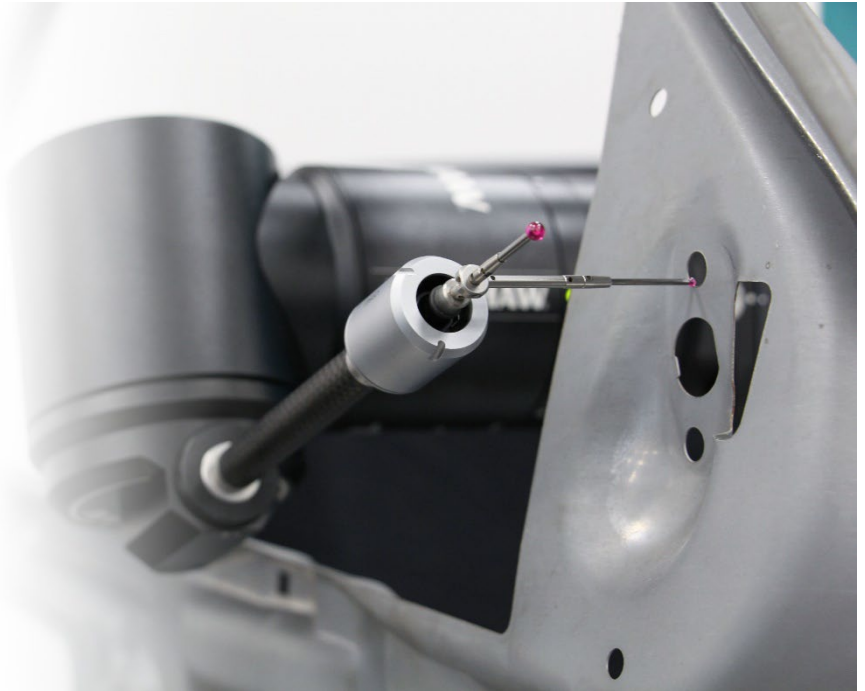


If you have any questions or comments on this bulletin, please contact [cmm.support@renishaw.com](mailto:cmm.support@renishaw.com)

## Further details:

In some installations the PHS-2 is not a drop-in replacement for the PHS1 therefore please discuss with your CMM OEM / agent before upgrading to PHS-2.

The PHS-2 has an improved current sensing overtravel system which replaces the mechanical overtravel design used in PHS1. If accidentally driven into the workpiece the head disengages, an error signal is sent to the controller and the PHS-2 LEDs flash.



The PHS-2 also has a new additional referencing method which improves the repeatability of referencing / homing. Your CMM OEM / agent will have specific details about the availability with your installation.

## Service and support

There are several service options available for PHS1 and PHS-2. ~~These are detailed in Appendix 1.~~

- ~~• PHS1 RBE is not available at this time but we will endeavour to repair PHS1 heads of all ages, but the success of this repair action is likely to be far less for heads that are greater than 10 years in age.~~
- Unfortunately RBE and repair options are now unavailable for PHS1. Support is via upgrade only.
- There are three upgrade options from PHS1 to PHS-2; please discuss with your CMM OEM / agent about suitability before upgrading.
  - upgrade to a new PHS-2 (12 months warranty) \*
  - upgrade to a cosmetic PHS-2-RBE, the head will be cosmetically as new and will have been fully refurbished (6 months warranty) \*
  - upgrade to a non-cosmetic PHS-2-RBE. It may have marks, scratches or dents on the outside and will have been fully refurbished, subject to availability (6 months warranty) \*

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\*pricing is subject to a PHS1 being returned

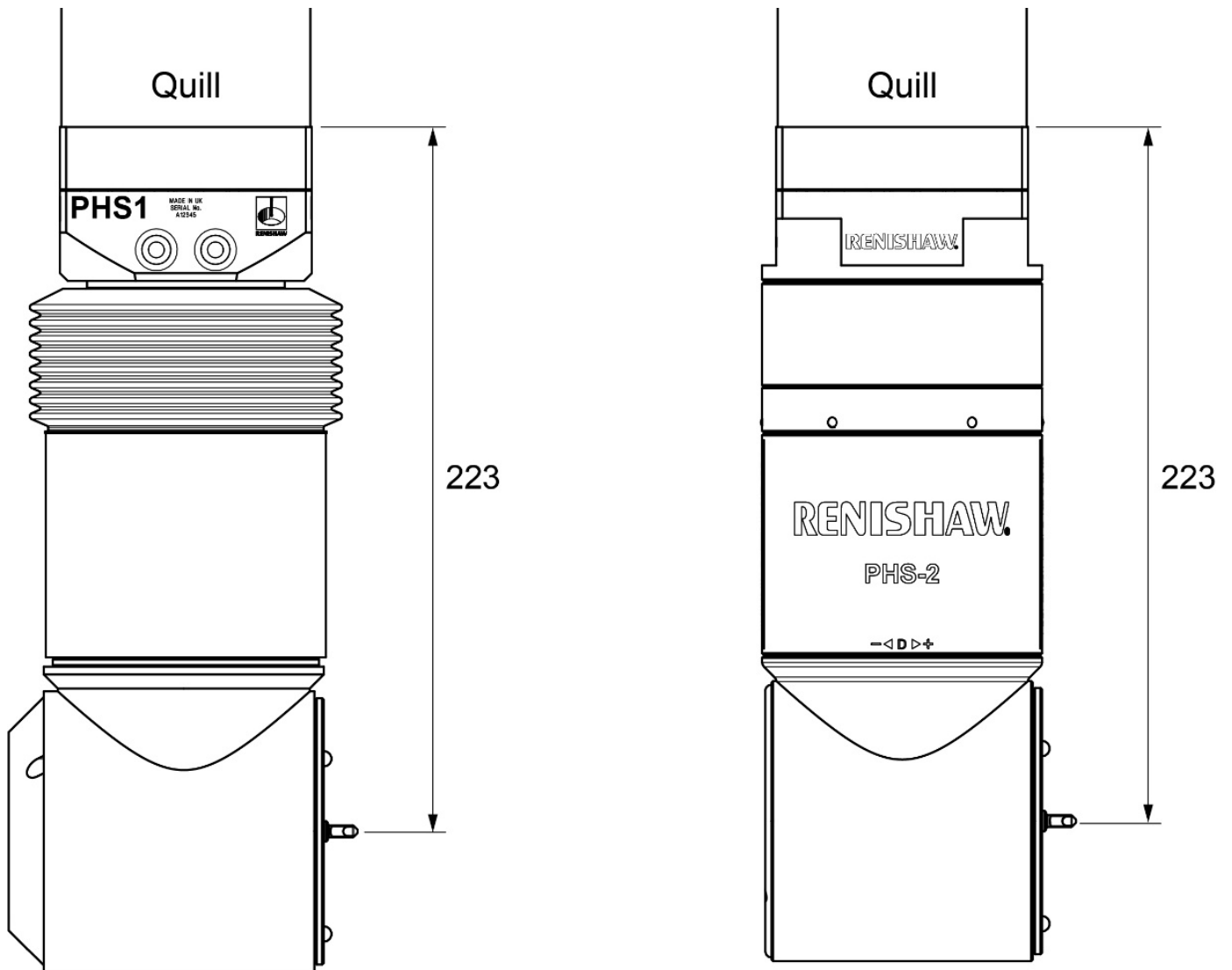


Figure 1, PHS1 and PHS-2 heads

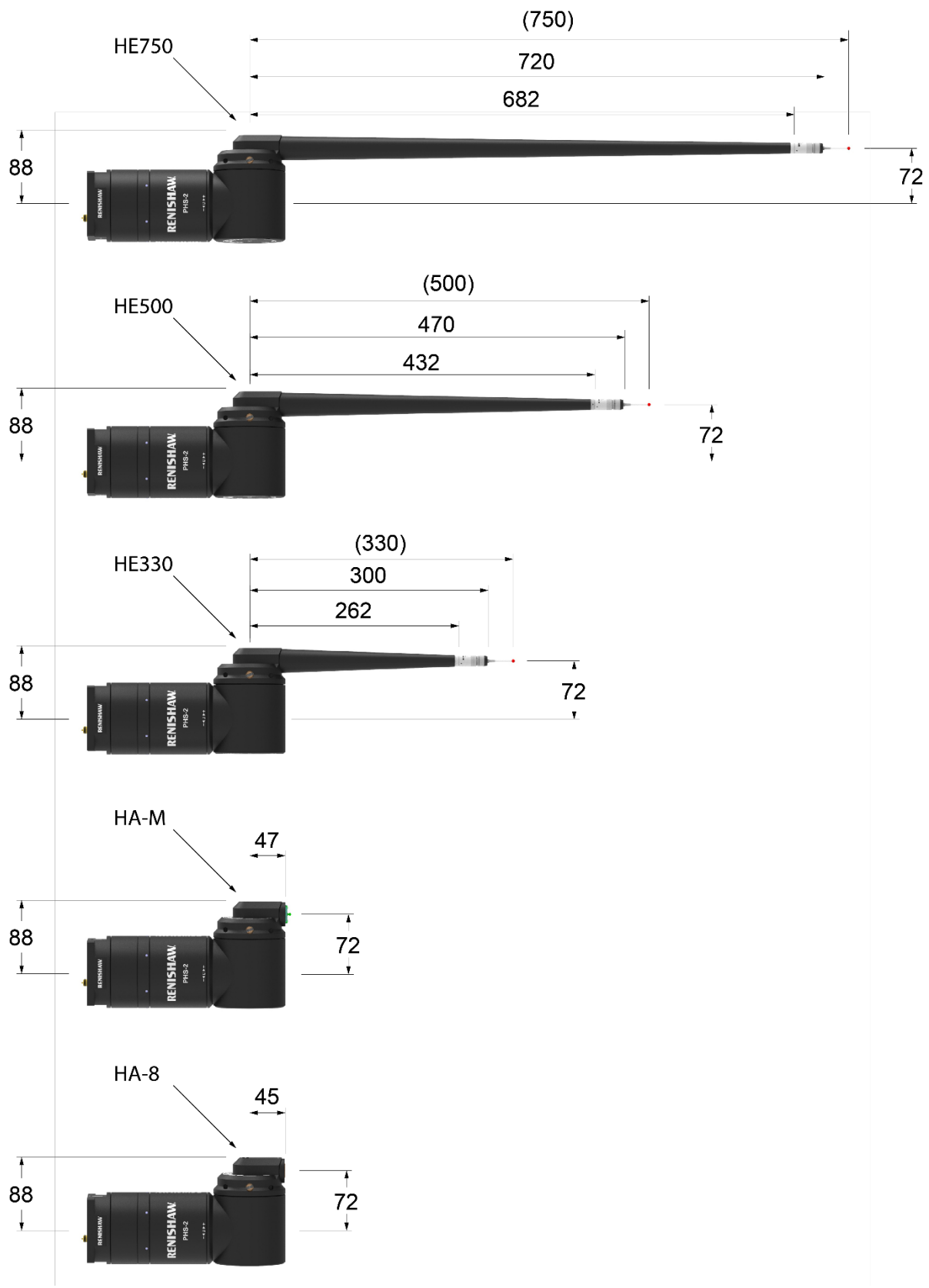


Figure 2, PHS-2 head and arm configurations,

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**New Part Numbers:**

<b>New Part number</b>	<b>Description</b>
A-5795-0001	PHS-2
A-5795-0001-UPG	PHS-2 Upgrade
A-5795-0001-RBE	PHS-2 RBE
A-5795-0100-RBE	PHS-2 non-cosmetic RBE
A-5795-1060	HE750 Extended arm
A-5795-1050	HE500 Extended arm
A-5795-1010	HAM PHS multiwire adapter
A-5795-1030	HA8 PHS M8 adapter
A-5795-1040	HE330 Extended arm
A-5795-0817	PHS-2 head kit 1 (6 x ACR2, 2 x HAM, 2 x HA8, HE500, HE750, PHS-2 head)
A-5795-0819	PHS-2 head kit 2 (2 x ACR2, KM1, HAM, HA8, HE330 HE500, PHS-2 head)
A-5795-0816	PHS-2 arm kit 1 (2 x HAM, 2xHA8, HE500, HE750)
A-5795-0827	PHS-2 arm kit 2 (HAM, HA8, HE330, HE500)

**Availability:**

PHS-2 is now in production and stock is available. Please contact your CMM OEM / agent before ordering.

**Pricing:**

Please contact your local Renishaw supplier for pricing.

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