

Specification

Repeatability: 1µm (2σ) at stylus tip 50mm (1.97in) from connector face.

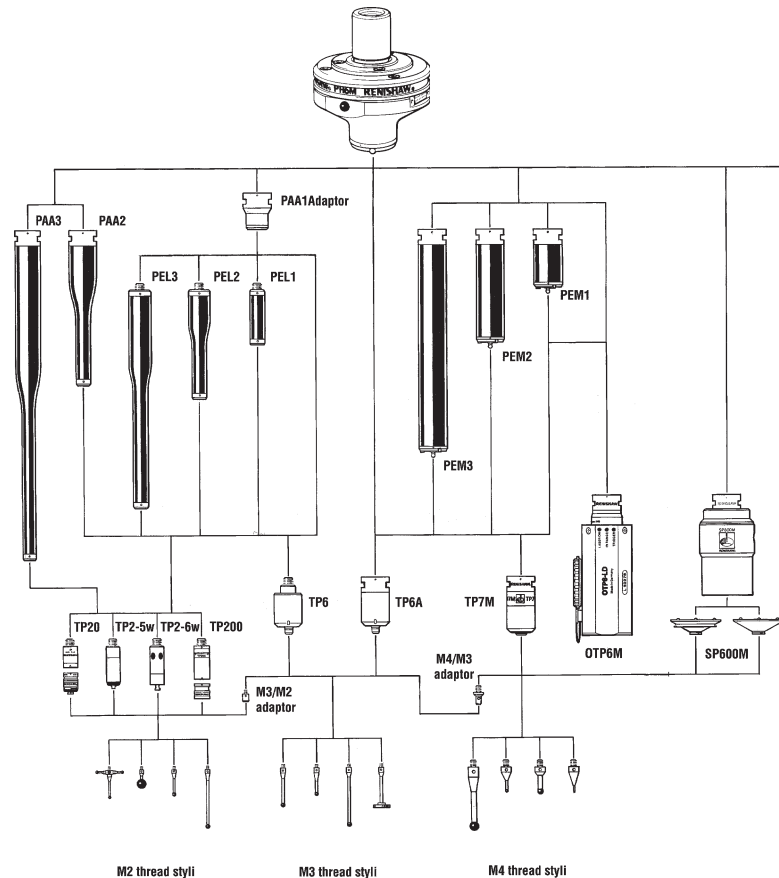
Probe compatibility: Direct fitting of TP7M, OTP6M, SP600M and TP6A.
PAA series adaptor/extension required for M8 connector probes TP200, TP20 and TP2.

Dimensions: Length 40mm (1.57in) – without shank
Diameter 60mm (2.36in)

Probe mount: Multiwired autojoint

Weight: 160g (0.36lb)

Product compatibility



Accessories

AM1 Adjustment module for precise alignment of the head axes with the CMM or Autochange rack. Part no. A-1026-0320

S10 Autojoint key Part no. A-1051-0040

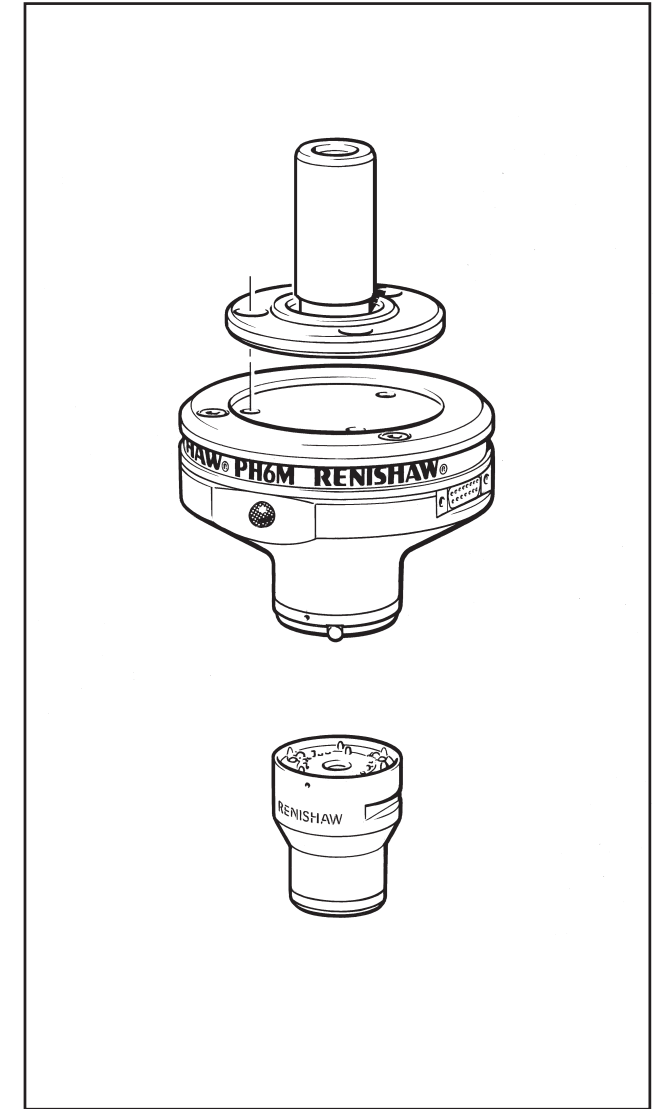
Parts list – please quote the Part no. when ordering equipment

The PH6M probe head can be supplied with a mounting shank defined by the following part numbers:

Type	Part no.
PH6M + MS1 shank	A-1074-0031
PH6M + MS2 shank	A-1074-0032
PH6M + MS3 shank	A-1074-0033
PH6M + MS9 shank	A-1074-0039
PH6M + MS13 shank	A-1074-0043
PH6M + MS15 shank	A-1074-0045

<p>Australia – Renishaw Oceania Pty Ltd Tel +61 3 9521 0922 Fax +61 3 9521 0932 email australia@renishaw.com</p>	<p>India – Renishaw Metrology Systems Private Ltd Tel +91 80 5320 144 Fax +91 80 5320 140 email india@renishaw.com</p>	<p>South Korea – Renishaw Liaison Office Tel +82 2 565 6878 Fax +82 2 565 6879 email southkorea@renishaw.com</p>
<p>Brazil – Renishaw Latino Americana Ltda Tel +55 11 4195 2866 Fax +55 11 4195 1641 email brazil@renishaw.com</p>	<p>Indonesia – Renishaw Representative Office Tel +62 21 428 70153 Fax +62 21 424 3934 email indonesia@renishaw.com</p>	<p>Spain – Renishaw Iberica S.A. Tel +34 93 478 21 31 Fax +34 93 478 16 08 email spain@renishaw.com</p>
<p>The People's Republic of China – Renishaw Representative Office Tel +86 10 6410 7993 Fax +86 10 6410 7992 email china@renishaw.com</p>	<p>Italy – Renishaw S.p.A. Tel +39 011 966 10 52 Fax +39 011 966 40 83 email italy@renishaw.com</p>	<p>Switzerland – Renishaw A.G. Tel +41 55 415 50 60 Fax +41 55 415 50 69 email switzerland@renishaw.com</p>
<p>France – Renishaw S.A. Tel +33 1 64 61 84 84 Fax +33 1 64 61 65 26 email france@renishaw.com</p>	<p>Japan – Renishaw K.K. Tel +81 3 5332 6021 Fax +81 3 5332 6025 email japan@renishaw.com</p>	<p>Taiwan – Renishaw Representative Office Tel +886 4 251 3665 Fax +886 4 251 3621 email taiwan@renishaw.com</p>
<p>Germany – Renishaw GmbH Tel +49 7127 9810 Fax +49 7127 88237 email germany@renishaw.com</p>	<p>The Netherlands – Renishaw International BV Tel +31 76 543 11 00 Fax +31 76 543 11 09 email benelux@renishaw.com</p>	<p>UK (Head Office) – Renishaw plc Tel +44 1453 524524 Fax +44 1453 524901 email uk@renishaw.com</p>
<p>Hong Kong – Renishaw (Hong Kong) Ltd Tel +852 2753 0638 Fax +852 2756 8786 email hongkong@renishaw.com</p>	<p>Singapore – Renishaw Representative Office Tel +65 897 5466 Fax +65 897 5467 email singapore@renishaw.com</p>	<p>USA – Renishaw Inc Tel +1 847 286 9953 Fax +1 847 286 9974 email usa@renishaw.com</p>
<p>Slovenia – RLS merilna tehnika d.o.o. Tel +386 1 52 72 100 Fax +386 1 52 72 129 email mail@rls.si</p>	<p>For all other countries Tel +44 1453 524524 Fax +44 1453 524901 email international@renishaw.com</p>	

RENISHAW
www.renishaw.com



RENISHAW

PH6M
User's Guide

The PH6M probe head

General description

The PH6M is a shank mounted, fixed orientation, probe head incorporating the Renishaw autojoint probe connector.

The PH6M is compatible with the AM1 adjustment module to allow precise autojoint alignment with machine axes, enabling trouble-free autochange operation.

Probe reach may be extended using the PEM or PEM/S range of extension bars for multiwired probes or the PAA series for adapting to M8 connector system probes.

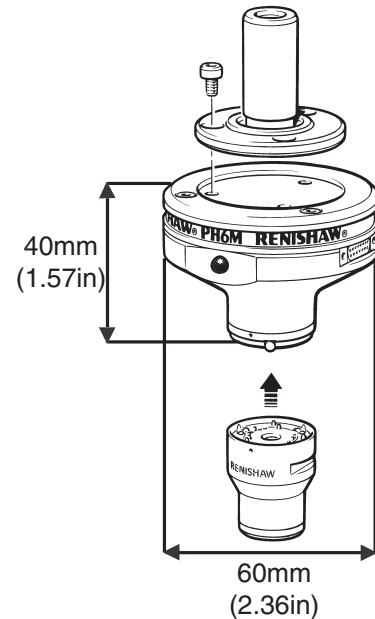
Electrical connection is made via a 15-pin micro 'D' type connector. A range of mating cables is available with the remote end either terminated or unterminated according to installation requirements.

An integral LED is available to indicate the status of touch-trigger probes.

Installation and connection

For instructions on how to install and connect the PH6M, refer to the *Touch-trigger probe systems User's Guide* (Renishaw Part no. H-1000-5021).

Dimensions

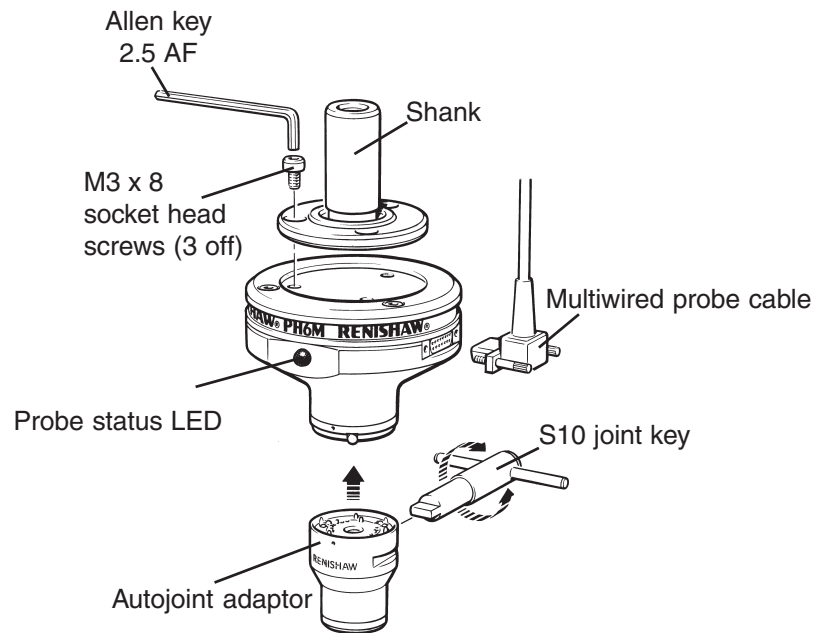


Operation

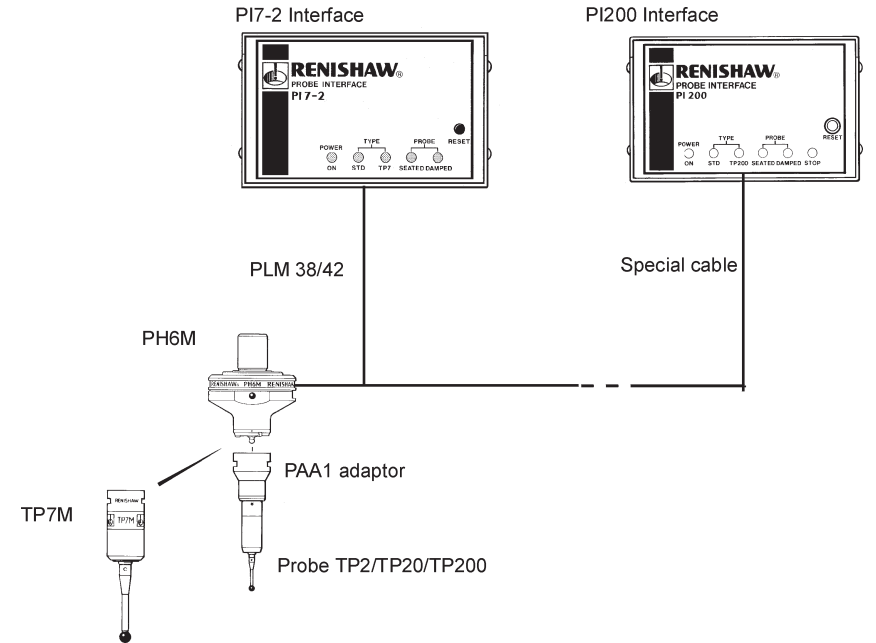
The autojoint is a highly repeatable coupling mechanism which will minimise the need for tip re-qualification after the exchange of probes or extension bars. The locking mechanism is operated by rotating an actuator contained in the mating half of the coupling, which is located on the probe or extension bar. The actuator has a drive slot which may be operated using an S10 joint key for manual probe or extension bar changing applications. Automatic probe or extension bar changing is possible using the Renishaw autochange system.

Locking and unlocking the autojoint is performed either manually using the S10 joint key supplied, or automatically using the Renishaw autochange system. This allows probes to be changed without the need to requalify.

The status of the probe is indicated by the probe status LED. This is normally lit when the probe is ready for use and extinguishes as the probe triggers.



System connection



Interconnecting cables

There is a choice of standard cables to connect from PH6M to probe interfaces PI7-2, OPI6 or the AC2 card for SP600M.

Connectors shown in brackets are supplied in kit form. The cable is supplied with the micro 'D' connector fitted and the remote end prepared, but unterminated, to facilitate assembly into machine looms.

Termination	Length	Ident	Part Number	Notes
(15 way high density 'D')	25m	PL36	A-1016-7625	Supplied unterminated
(15 way high density 'D')	25m	PL59	A-1016-6575	Supplied complete
(15 way high density 'D')	15m	PL42	A-1016-7624	Supplied unterminated
Unterminated	12m	PL56	A-1016-7617	No connector supplied
(15 way high density 'D')	8m	PL44	A-1016-7627	Supplied unterminated
(15 way high density 'D')	3.7m	PL46	A-1016-7628	Supplied unterminated
(15 way high density 'D')	1.9m	PL45	A-1016-7629	Supplied unterminated

Please contact Renishaw for details of cables for PI200.