



Mechtro Sdn. Bhd.

Renishaw PH10 PLUS motorised indexing heads

Category: Renishaw Motorized Probe Head

PH10 PLUS motorised indexing heads

The range of PH10 PLUS heads increase throughput by giving automated CMMs the added capability of program controlled probe re-orientation.

The range comprises three PH10 PLUS models, each of which can carry a range of probes and extensions and can be orientated in 720 repeatable positions, giving access to the most difficult-to-reach workpiece features. This enables the inspection of features at different angles without the need for frequent, time consuming stylus cluster changes.

All three variants of the PH10 PLUS heads are supplied with a repeatability specification of just $0.4 \mu\text{m}$ (2σ) (specified at a distance of 100 mm), giving users improved positioning at the stylus tip.

PH10M PLUS

The PH10M PLUS can carry long extension bars and complex probes such as SP25M or TP7M. The highly repeatable autojoint allows rapid probe or extension bar changing without the need for re-qualification.

PH10MQ PLUS

The PH10MQ PLUS is a variant of the PH10M PLUS that allows the motorised head to be attached directly to the quill with the B-axis of the head inside the quill itself.

This option provides a neater and shorter probe mount, with only the A-axis protruding from the quill.

PH10T PLUS

The PH10T PLUS is similar to the PH10M PLUS, except that it features an M8 thread probe mount in place of the autojoint.

All M8 threaded probes, such as TP20 and TP200, and extension bars fit directly onto the head. The PH10T PLUS is fully compatible with all of Renishaw's stylus and module change systems.

Length	117 mm
Width	62 mm
Weight	620 g
Probe mounting	Autojoint (multiwire)
Head mounting	PH10M PLUS shank to suit CMM
Suitable controller	PHC10-3 PLUS
Repeatability of position	$0.4 \mu\text{m}$ (0.0002 in) specified at a distance of 100 mm
Total number of positions	720
Maximum recommended drive torque	0.45 Nm
Maximum extension bar	300 mm (11.8 in) using PAA3 extension 450 mm (17.7 in) using PAA3F special order only extension

Length	73 mm
Width	80 mm
Weight	730 g
Probe mounting	Autojoint (multiwire)
Head mounting	Direct to quill
Suitable controller	PHC10-3 PLUS
Repeatability of position	$0.4 \mu\text{m}$ (0.0002 in) specified at a distance of 100 mm
Total number of positions	720
Maximum recommended drive torque	0.45 Nm
Maximum extension bar	300 mm (11.8 in) using PAA3 extension 450 mm (17.7 in) using PAA3F special order only extension

Length	103 mm
Width	62 mm
Weight	645 g
Probe mounting	M8 thread (2-wire)
Head mounting	Shank to suit CMM
Suitable controller	PHC10-3 PLUS
Repeatability of position	$0.4 \mu\text{m}$ (0.0002 in) specified at a distance of 100 mm
Total number of positions	720
Maximum recommended drive torque	0.45 Nm
Maximum extension bar	300 mm (11.8 in) using PEL4 extension