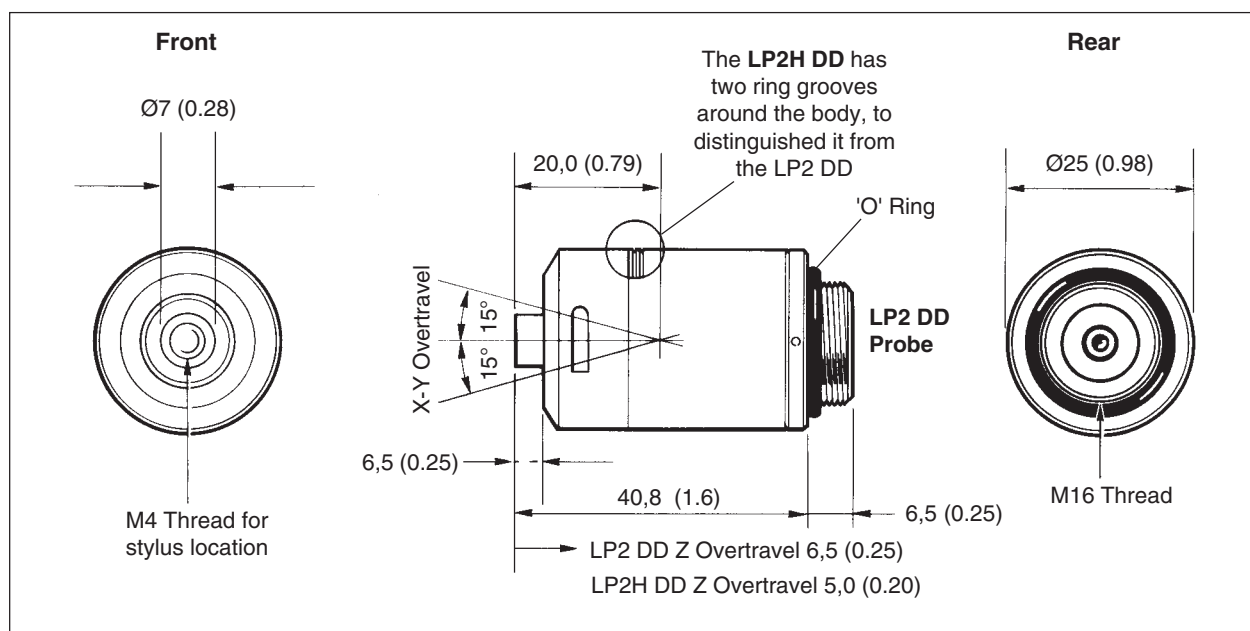


LP2 DD and LP2H DD Probes

For use on grinding machines and other applications subject to particle laden coolant



LP2 DD and LP2H DD probes are a variants of LP2 and LP2H probes. They are similar in all respects to the LP2 range except the front end is protected by a double diaphragm arrangement in place of the diaphragm and metal eyelid seal used on the LP2. LP2 DD and LP2H DD probes are specified for use with applications subject to particle laden coolant.

Double diaphragm probes require minimal maintenance and are suitable for use in a high volume production environment.

The diaphragm material is resistant to coolants and elevated temperatures. However if the probe is subjected to continual exposure to hot chips, use of the swarf deflector is recommended.

Note: When the swarf deflector is used, Z axis over-travel is restricted to 4,75mm (0.19in) for both LP2 DD and LP2H DD probes. The swarf deflector does not restrict the use of Renishaw styli.

The LP2 DD and LP2H DD are both mechanically and electrically compatible with all accessories available for the LP2 and LP2H.

A conversion kit is available to convert existing LP2 and LP2H probes to the DD standard.

An outer diaphragm replacement kit is available for LP2 DD and LP2H DD probes (see overleaf).

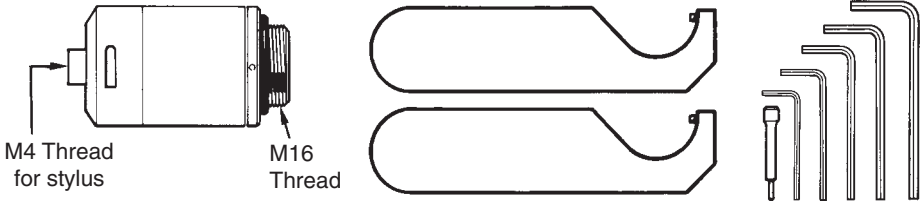
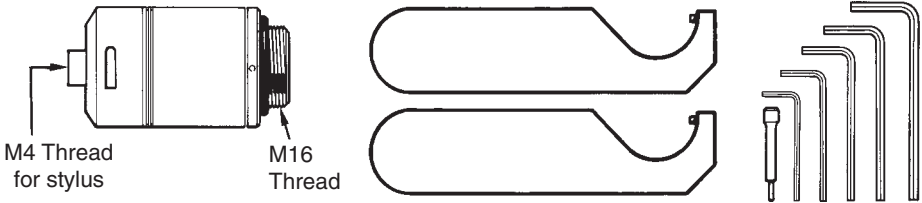
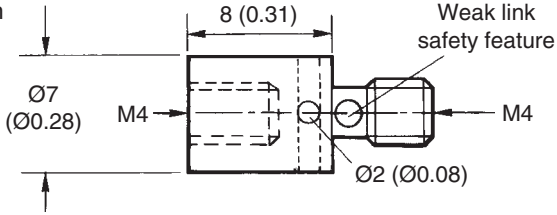
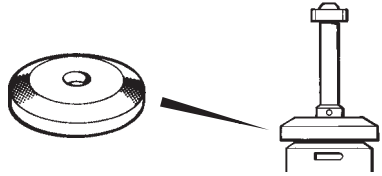
LP2DD PROBE

Sense Directions	$\pm X, \pm Y, +Z$
Stylus overtravel	15° X and Y directions 6,5mm (0.25in) Z direction.
Uni-directional Repeatability Max 2 Sigma (2σ) value	Repeatability of 1,0 μ m (40 μ in) is valid for test velocity of 480mm/min (1.5ft/min) at stylus tip. Using a stylus 35mm (1.37in) long.
Stylus trigger force X and Y direction	Set at 0,5N / 50gf (1.76ozf) giving 0,9N / 90gf (3.17ozf) max.
Z direction	5,85N / 585gf (20.6ozf).

LP2H DD PROBE

Sense directions	$\pm X, \pm Y, +Z$
Stylus overtravel	15° X and Y directions 5,0mm (0.20in) Z direction
Uni-directional Repeatability Max 2 Sigma (2σ) value	Repeatability of 2,0 μ m (80 μ in) is valid for test velocity of 480mm/min (1.5ft/min) at stylus tip. Using a stylus 35mm (1.37in) long.
Stylus Trigger Force X and Y direction	Set at 2,0N / 200gf (7.05ozf) giving 4,0N / 400gf (14.10ozf) max.
Z direction	30N / 3,0kgf (6.6lbf).

Parts List Please quote the Part No. when ordering equipment

Type	Part No.	Description
LP2 DD	A-2063-8020	LP2 DD Probe complete with Two C Spanners and TK1 Probe Head Tool Kit  M4 Thread for stylus M16 Thread
LP2H DD	A-2064-0032	LP2H DD Probe complete with Two C Spanners and TK1 Probe Head Tool Kit  M4 Thread for stylus M16 Thread
DDCK	A-2063-8023	Conversion Kit comprising Two C Spanners, Front Ring, Outer Diaphragm and 'O' Ring  Front Ring Diaphragm Rear 'O' Ring
DDRK	A-2063-8030	Replacement Kit comprising Outer Diaphragm and 'O' Ring  Diaphragm Rear 'O' Ring
SA8	M-5000-7582	Stylus Adaptor with Break Protection In the event of a collision the adaptor is designed to break and protect the probe from damage  Weak link safety feature 8 (0.31) Ø7 (Ø0.28) M4 Ø2 (Ø0.08) M4
SD1	M-2063-8003	Swarf Deflector When fitted with the swarf deflector Z overtravel is limited to 4,75mm (0.19in). 

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