**RENISHAW**

apply innovation™

# Inspection Plus with SupaTouch

## Specification

| Part number | A-5755-4101 |
|---|---|
| Control memory requirements | 46 kilobytes (typical); 69 kilobytes (maximum) |
| Supported controls | Fanuc 0iM, 15iM, 16iM, 18iM, 21iM and Series 3x*i* <br> Meldas 700 series or later |
| Compatible probe types | All Renishaw touch-trigger – RENGAGE™ or kinematic – probes |
| Cycle features | Protected positioning. <br> Measurement of internal and external features to determine size and position, including: <br>     Obtaining a hard copy printout of the feature data. <br>     Applying tolerances to both size and position. <br> Additional features for feedback of errors, including: <br>     Application of experience values to the measured size. <br>     Application of percentage feedback of the error. <br>     Null-band zone for no tool offset update. <br>     Statistical process control (SPC) feedback based on average value. <br> Calculation of feature-to-feature data. <br> Measurement of external and internal corners for corner surfaces which may not be parallel to an axis. <br> Calibration of multiple probes (with individual probe turn-on methods). <br> 4th axis datum setting and tolerancing. <br> Angular measurement of features. <br> Software option to turn off the tolerance alarms and provide a flag-only alarm. (Suitable for FMS and unmanned applications.) <br> Built in stylus collision and false trigger protection for all cycles. <br> Diagnostic and format error checking routines for all cycles. <br> Self-optimisation for optimum performance. |
| Calibration cycles | **Calibration options** <br> Calibrating the probe length: probe-free length setting for improved pre-positioning. <br> Calibrating the stylus ball offsets and radii. <br> Calibrating on a reference sphere. |
|  | **Special calibration cycles** <br> Optimisation report. <br> Centring on a calibration feature. <br> Calibrating the stylus X and Y offsets. <br> Calibrating the stylus ball radius. |

**RENISHAW®**

**apply innovation™**

| Measurement cycles | Standard measuring cycles | XYZ single surface measurement. |
|---|---|---|
| | | Web measurement. |
| | | Pocket measurement. |
| | | Bore measurement. |
| | | Boss measurement. |
| | | Finding an internal corner. |
| | | Finding an external corner. |
| | | 5-point external rectangle feature. |
| | | 5-point internal rectangle feature. |
| | | Probe start. |
| | | Probe stop. |
| | Vector measuring cycles | Angled surface measurement using A and D inputs. |
| | | Angled surface measurement using X, Y and Z inputs. |
| | | Angled web measurement. |
| | | Angled pocket measurement. |
| | | 3-point bore measurement. |
| | | 3-point boss measurement. |
| | Additional cycles | 4th axis measurement. |
| | | Bore on PCD measurement. |
| | | Boss on PCD measurement. |
| | | Stock allowance. |
| | | Determining feature-to-feature data in the XY plane. |
| | | Determining feature-to-feature data in the Z plane. |
| | | Updating the statistical process control (SPC) tool offset. |
| | | Angled measurement in the X or Y plane. |
| **Add-ons** | | Automatic selection of one-touch or two-touch measurement. |
| | | Automatic optimisation cycle providing: |
| | |     Optimised feedrates for measuring. |
| | |     Optimised protected positioning feedrates. |
| | |     Optimised back-off (two-touch) and recovery (one-touch) for quick and reliable measurement. |
| | |     A printed optimisation report. |
| **Operation modes** | | Prove-out mode: use to validate programmed measurement cycles. |
| | | Production mode: provides fast, unprotected positioning once cycles are proven. |

**For worldwide contact details, visit www.renishaw.com/contact**

Issued: 01.2016

H-5755-8200-01