

# Mobile Roughness Measuring Instrument MarSurf Pocket Surf IV



### Application:

A pocket-sized economically priced, completely portable instrument which performs traceable surface roughness measurements on a wide variety of surfaces; can be used confidently in production, on the shop floor and in the laboratory.

### Technical Data

| Order no.                                        |    | 2191800                                           | 2191802                                           |
|--------------------------------------------------|----|---------------------------------------------------|---------------------------------------------------|
| Product type                                     |    | Pocket Surf IV                                    |                                                   |
| Parameters                                       |    | Ra, Ry, Rmax, Rz                                  |                                                   |
| Stylus                                           |    | 10 µm / .0004"                                    | 5 µm / .0002"                                     |
| Data interface:                                  |    | RS232C, USB                                       |                                                   |
| Rechargeable batteries                           |    | Battery, 9V                                       |                                                   |
| H x W x D                                        | mm | 140 x 76 x 6,35 mm                                |                                                   |
| Weight                                           | kg | 1.03                                              |                                                   |
| Measuring principle                              |    | Skid probe system                                 |                                                   |
| Probe                                            |    | Piezoelectric skid probe                          |                                                   |
| Measuring range                                  | mm | Ra –6.35 µm / 250 Ry, Rmax, Rz –25.3 µm / 999 µin | Ra –6,35 µm / 250 Ry, Rmax, Rz –25,3 µm / 999 µin |
| Profile resolution                               |    | 0,01 µm / 1 µin                                   |                                                   |
| Number n of sampling length according to ISO/JIS |    | Selected: 1 –5                                    |                                                   |
| Measuring force                                  | N  | 15 mN                                             |                                                   |

- Durable cast aluminum housing to provide years of accurate and reliable surface finish gaging
- Can be used to measure any one of four, selectable, parameters: Ra, Rmax/Ry, Rz
- Review any of the parameters after the measurement is complete
- Selectable traverse length 1, 3 or 5 cut-offs of 0.8 mm/0.030"
- Operates in any position – horizontal, vertical, and upside down
- Four switchable probe positions – axial (folded) or at 90°, 180° or 270°
- Even difficult-to-reach surfaces such as inside and outside diameters are accessible
- MarConnect data output for easy SPC processing that is compatible with the most common data processing systems
- Easy-to-read LCD readout presents the measured roughness value, in micro inches or micro-meters, within half a second after the surface is traversed
- Out-of-range (high or low) and "low battery" signals are displayed
- Improved digital calibration process eliminates scandrivers and potentiometers to simplify and enhance the calibration process
- Improved battery life with easy to replace standard 9V battery

# Mobile Roughness Measuring Instrument MarSurf Pocket Surf IV

## Accessories

| Order no. | Product description                                                                                                                 | Product type     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 2008010   | General purpose probe, 10µm/90°                                                                                                     | EGH-1019         |
| 2213247   | Transverse chisel probe, 10 µm                                                                                                      | EGH-1020-W1      |
| 2213248   | Parallel chisel probe, 10 µm                                                                                                        | EGH-1020-W2      |
| 2213249   | Small bore probe, 10µm/90°                                                                                                          | EGH-1021         |
| 2213250   | General purpose probe, 5µm/90°                                                                                                      | EGH-1026         |
| 2213251   | Small bore probe, 5µm/90°                                                                                                           | EGH-1027         |
| 2213252   | Groove bottom probe, 10µm/90°                                                                                                       | EGH-1028         |
| 2008024   | Compact height stand                                                                                                                | EAS-2496         |
| 2008025   | Universal Stand                                                                                                                     | EAS-2426         |
| 2008026   | Column clamp and bracket for EAS-2426                                                                                               | EAS-2567         |
| 2008027   | Adapter plate                                                                                                                       | EPL-1681         |
| 2008023   | Portable V-fixture                                                                                                                  | EAS-2421         |
| 2008022   | Bottom plate                                                                                                                        | EAS-2584         |
| 2008021   | Bore adapter kit                                                                                                                    | EAS-2839         |
| 2008020   | V-adapter kit                                                                                                                       | EAS-2739         |
| 2008030   | Certified specimen, incl. test certificate                                                                                          | PMD-90101        |
| 2008031   | Precision reference specimen, without certificate                                                                                   | EMD-90010        |
| 4102357   | Data Connection Cable USB                                                                                                           | 16 EXu           |
| 4102410   | Data Connection Cable RS232C                                                                                                        | 16 EXr           |
| 4102212   | Software interface                                                                                                                  | MarCom Prof. 5.1 |
| 2238983   | Certified reference specimen, double patch, 0,4 µm / 16 u" - 3,0 µm / 118 u", certified for Ra, Rz, Rmax, and Sm                    |                  |
| 2008143   | Certified Reference specimen, sinusoidal, single patch, certified for Ra 3,0 / 118 u", Rz 9,75 µm / 386 u" and Rmax 9,8 µm / 386 u" |                  |



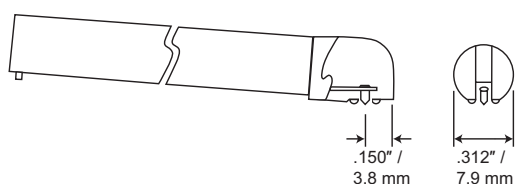
EAS-2421



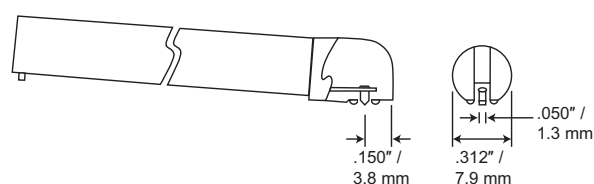
EAS-2839



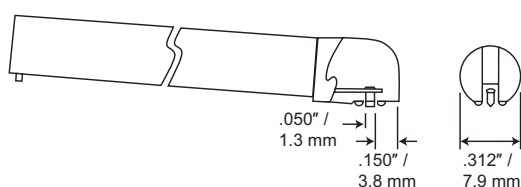
EAS-2739



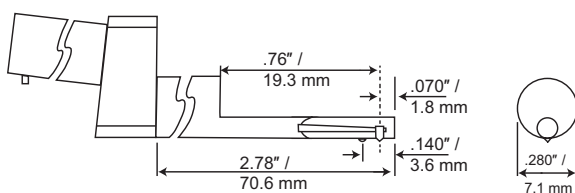
EGH-1019



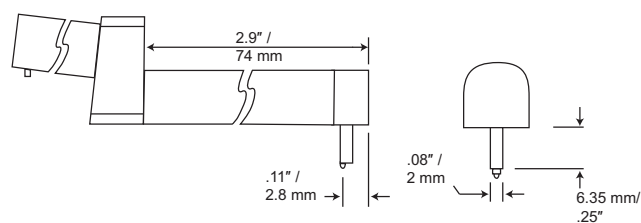
EGH-1020



EGH-1020W2



EGH-1023



EGH-1028