

# Elcometer 133 Ships Propeller Roughness Comparators



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Comparators allow the estimation of surface roughness by both touch and sight. The Elcometer 133 Ships Propeller Roughness Comparators have been developed for the specific profiles related to the condition of ships propellers over the life of the propeller. Comparators are also supplied with guidance on the report of the Propeller Blades.

Two versions are available, one for above water (dry dock) inspection and another for inspection work carried out underwater.

### Surface Profile

The proper and effective preparation of a surface prior to coating is essential. Making sure that the correct roughness – or profile – has been generated is essential.

If the profile is too low, the adhesion of the coating to the surface will be reduced. Too high and there is the danger that the profile peaks will remain uncoated – allowing rust spots to occur.

### At a glance

- Estimate surface roughness by touch and sight.
- Specifically developed to estimate condition of ships propellers.
- Two versions for dry dock inspection or underwater inspection.

Nominal Profiles	Surface Comparator	Underwater Comparator
Ra	1, 2, 4, 8, 16, 30µm	1, 2, 4, 8, 16, 30µm
Rs	6, 12, 24, 48, 96, 180µm	6, 12, 24, 48, 96, 180µm
Part Number	H133--15A	H133--16A

## Related products



Elcometer 125

Surface comparators allow the estimation of surface roughness by both touch and sight. These simple roughness gauges consist of 4 blasted profiles of varying roughness and are available either in a grit blasted or a shot blasted version.



Elcometer 127

These comparators from Keane-Tator are designed to be used with a magnifier. Consisting of 5 blasted profiles on displayed with the roughness value on each disc. In the middle of the disc there is a hole for the comparison to be undertaken using the magnifier. Sand, shot or grit versions available.



Elcometer 129

Similar to the Elcometer 125, the Elcometer 129 roughness comparators are available in two models: The Elcometer 129 Rubert is available in grit and shot versions whereas the Elcometer 129 Rugotest includes the shot and grit profiles on the same block.



Elcometer 124

The Elcometer 124 thickness gauge is used to measure the peak-to-valley height of a surface profile formed in the Elcometer 122 Testex Tape.



Elcometer 122

The Elcometer 122 testex tape allows the user to measure the peak-to-valley height of the profile and record it. Testex tape consists of foam with a non-compressible backing. The foam side is rubbed into the surface providing a permanent mould of the profile. The Elcometer 124 Thickness Gauge is then used to measure the peak-to-valley height of the profile formed.



Elcometer 101/45

Whereas comparators allow the estimation of surface roughness by both touch and sight, the Elcometer 101 estimates the roughness of iron and steel surfaces. Its scale indicates the suitability of the surface for paints, metal coatings and hard metal coatings.



Elcometer 223

The Elcometer 223 is a battery operated digital surface profile gauge which measures the peak-to-valley height of a surface in a similar way to the Elcometer 123 analogue equivalent, but with the added benefit of a direct RS232 output for data logging.

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