Kit Options & Prices

8600C All-In-One Kit

$6,300-

Optical Depth Micrometer
Lab Stand w/ X-Y Stage
Dino-Eye Eyepiece Camera
4-Leg Micrometer Base
Offset Micrometer Base
Acrylic V-Block Micrometer Base
10X Eyepiece

10X Objective Lens
LED Flashlight
Scratch Sample Plate
Foam Lined Rolling Case

32 LBS, 22" x 18" x 12"

8600R Microset® Upgrade

Fits easily in the 8600C case storage pocket.

$495-

50ml Dispensing Gun
50ml Replication Compounds (Qty 2)
50/Pack 50ml Mixing Nozzles
100/Pack Backing Paper
Tilting Stage Base

8600CK 8600C Upgrade

Upgrade 8400K Kit to 8600C Kit (existing customers).

$3,300-

Lab Stand w/ X-Y Stage
AM7025X Dino-Eye Edge Eyepiece Camera
Foam Lined Rolling Case
Offset Micrometer Base

8400K Optical Depth Micrometer

$4,295-

Optical Depth Micrometer
3-Leg Micrometer Base
4-Leg Micrometer Base
Acrylic V-Block Micrometer Base
10X Eyepiece
20X Eyepiece

10X Objective Lens
4X Objective Lens
LED Flashlight
Scratch Sample Plate
Foam Lined Case

7 LBS, 14"x12"x6"

NSN 6650 01 220 8942 **GSA GS-24F-0043N**

5500L Lab Stand

$2,400-

Lab Stand with X-Y Stage
Foam Lined Carrying Case

22 LBS, 20" x 16" x 8"

4400M Surface Replication Kit with Microset®

$1,400-

50ML Dispensing Gun
50ML Replication Compounds (5)
50ML Nozzle Pack (50/Pack)
Backing Slides (50/Pack)

Backing Paper (100/ Pack)
Tilting Stage Base
Tall Tripod Micrometer Base
Foam Lined Case

14 LBS, 20" x 16" x 8"

NSN 3610 01 680 3404

JCHADWICK
Optical Depth Micrometers

Kit Catalog
& Price List

B1 Rev JAN 2023

Take the guesswork out of inspecting scratches, pits, cracks, and other surface marks.

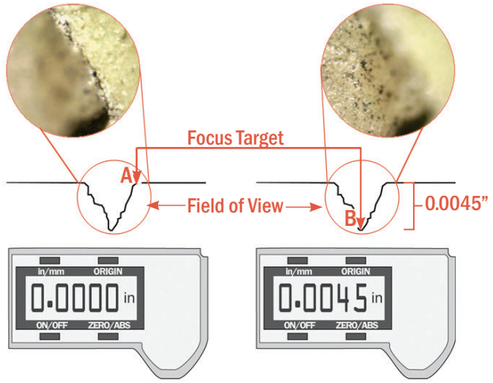
Optical Depth Micrometer

More information at
www.jchadwickco.com

www.jchadwickco.com (866) 358-9955 sales@jchadwickco.com CAGE 65956

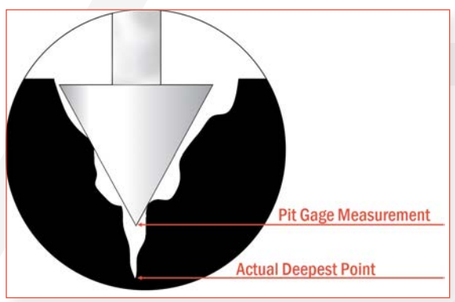
How It Works

The Optical Micrometer measures depth by using a simple focus method. First, set a starting position for the measurment by focusing on the surface directly next to the damaged area (Surface A). Once in focus, press a button to set the digital display to zero. Next, focus on the very bottom of the damaged area (Surface B), and record the depth from the digital display.



The Problem with Pit Gages

Ball scribes, pit gages and probes may be cheap and portable, but they are also very unreliable. These gages come with a risk of false positives and misleading results. Whether vernier, analog or digital, they all rely on a probe dropping down and making contact with a lower surface, like the bottom of a scratch or pit.



The pit gauge will give a false result if the geometry prevents the probe from reaching the lowest point.

It's also almost impossible to hold the pit gauge still and at the same angle, making repeatability very difficult on anything other than a flat surface.

Finally, there's an additional benefit in seeing the damage because it can expose other, more severe, hidden structural problems like exposed substrate material or an originating crack.

Repairable Limits?

When it comes to surface damage, small problems can have a big impact on maintenance resources.

"Negligible, repairable or scrap?"

The right inspection tool can drastically reduce costs by eliminating needless part replacements. The wrong inspection tool can give false and misleading results, causing maintenance decisions that are costly or unsafe. Accurate and repeatable measurements are essential to identify repairable damage with confidence.

Optical Depth Micrometer

The Optical Depth Micrometer is a visual inspection microscope designed to make quick, accurate and repeatable measurements of the depth of small surface features, like pits and scratches. It works on flat and curved surfaces and most materials including metal, plastic, latex, composite, paint, chemical finishes, glass and other transparencies.

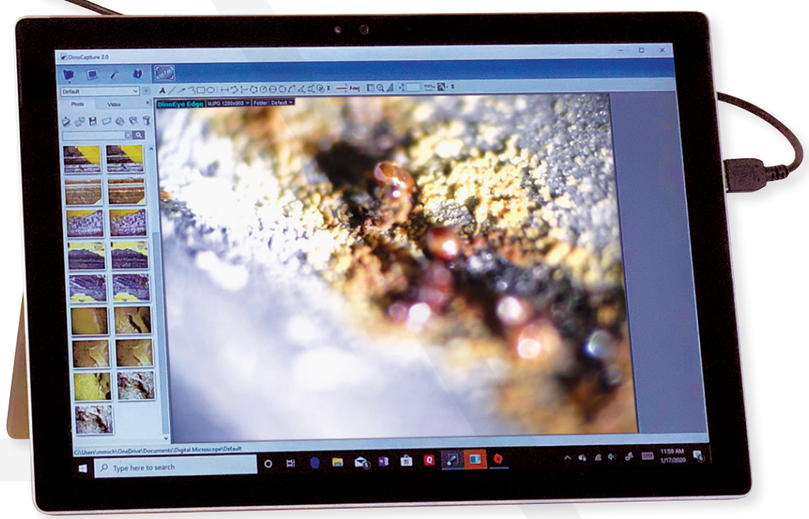
Lab Stand with X-Y Stage

For use in situations where the subject's surface geometry prevents using the hand-held Micrometer on a standard base. Brackets with complex shapes are a good example of this problem. The X-Y stage makes it easy to precisely position subjectswithin the field of view.

www.dinolite.us

Dino-Eye® Edge Eyepiece Camera

Replace the eyepice with the Dino-Eye camera to connect the Optical Micrometer to a laptop or tablet and create electronic records with detailed annotations and high-resolution images.



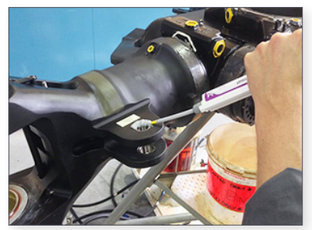
www.microset.co.uk

Surface Replication with Microset®

Microset replicas provide a solution for inspecting damage on otherwise inaccessible internal surfaces, like threaded holes and other inside walls or diameters.

The Optical Micrometer can be used as a hand-held device for easy portability or on a Lab Stand to give clearance for uneven surfaces or complex shapes.

The DinoEye Camera creates detailed digital inspection records.



Microset provides a way to inspect damage in hard-to-reach areas.

Don't rely on guesswork to measure surface damage. We make a great tool for that.