



Part No. **8400K**  
**Digital Optical  
Micrometer Kit**

A maintenance tool specifically designed to quickly and effectively determine the severity of surface damage.

• **Exact and repeatable.**

Very specific tolerances often apply to surface damage and **exact measurements are essential** to determine if a part should remain in service. The 8400K allows “*repair or replace*” maintenance decisions to be **made with absolute certainty**, and backed up with **precise measurement data**.

• **Eliminate Guesswork.**

**Quickly and confidently** perform visual inspections and make **real assessments of damage severity**. **Avoid using substandard parts or scrapping parts** that are still within safety and tolerance limits.

• **Portable and Versatile.**

The kit has interchangeable bases and lenses for use on almost any surface, including transparencies and composites. **Use one tool to inspect many types of damage**; corrosion pitting, scribe lines, bubbles, crazing, and scratches on parts.

• **Simple Operation.**

Unlike analog models, the 8400K is **repeatable and requires no manual calculations**. The digital LCD display is easy to read and toggles between inches and millimeters. Optional accessories allow data to be exported to a PC or handheld device.

**Take the guesswork  
out of visual inspection.**



**APPLICATIONS**

Inspect Damage on

- Windshields
- Canopies
- Fuselage Skins
- Shafts, Masts, Rotors
- Mechanical Parts
- Leading Edges
- Propellers
- Composites

and many other applications.



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For more information:

Toll Free (866) 358-9955  
 sales@jchadwickco.com  
 www.jchadwickco.com

**“Repair or Replace?”**

- Fast, accurate and repeatable measurements of surface damage to parts.
- Replace the “*finger nail test*” with a precise tool and make maintenance decisions with confidence.
- **Save Time and Money.** Quickly determine the severity of damage. Avoid scrapping parts that are still within tolerance limits.
- Read and record results easily from clear digital LCD display, or export directly to a PC.
- Improve traceability, **quality control** and monitor trends over time.



The 8400K kit is durable and portable for easy use on or off an aircraft, in the shop or in the field.

**TECHNICAL DATA**

**Dimensions & Weight**

Micrometer with Base 3”DIA x 9”H, 1.5 LBS  
 Kit in Case 13”L x 11”W x 6”H, 7 LBS

**Accuracy** **Range**  
 +/- 0.0005”/0.01mm 0.25” (10X), 1.2”(4X)

**Resolution** **Repeatability**  
 0.0005”/0.01mm 0.01mm / .0005”

**FEDERAL AGENCIES**

8400K is National Stock No.  
**NSN 6650-01-220-8942**

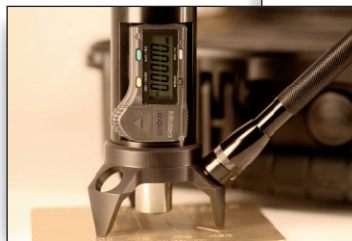
CCR & ORCA Registered, Cage Code  
**65956**

Available on **GSA** contract No.  
**GS-24F-0043N**

**Part No. 8400K is a kit & includes:**

- 8400-0 **Digital Optical Micrometer** with LCD display
- 8400-7 **3-Leg Base** with plastic tipped feet to protect surface finish
- 8400-8 **4-Leg Base**
- 8400-9 **V-Block Base**
- 8400-14 **20X Eyepiece**
- 8400-15 **10X Eyepiece** with a reticle scale for visual width measurements
- 8400-16 **10X Objective Lens**
- 8400-17 **4X Objective Lens**
- 9400-23 **LED Flashlight**
- 8400-15 **Foam lined, ABS plastic case**
- 8400-32 **Scratch Sample Plate** for training and demonstration

**Allen Wrench, Spare Batteries  
 Manual, Calibration Certificate**



Each kit includes a test plate engraved with different depth scratches for training.

**MADE IN THE USA**

## Digital Optical Micrometer Kit

## Part No. 8400K

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The 8400K from J Chadwick Co performs quick and accurate measurements of surface damage to mechanical parts. Inspect scratches, blemishes and corrosion pits easily with repeatable results, where other methods are time consuming and inconclusive.

The 8400K can be used to inspect damage on drive shafts, masts, couplings, turbine blades, propellers, leading edges, fuselage skin, windshields, canopies and many other applications.

- Save time - make fast, accurate and repeatable measurements.
- Save money - stop scrapping parts that are still in tolerance.
- Eliminate guesswork - replace the "fingernail test" with a precise instrument.
- Backup visual inspections with exact measurement data.
- Improve traceability and quality control.
- Improve documentation and monitor trends over time.

### Each 8400K Kit Contains:

- Micrometer with digital display
- 2 eyepieces
- Flashlight with spare batteries
- Scratch sample plate for training
- 3 interchangeable bases
- 2 objective lenses
- Allen wrench
- Sealed, foam lined case

### Documentation Included:

- Manufacturer's Certificate of Conformance
- Certificate of Accuracy  
Calibration certificate traceable to NIST is available for additional \$175.00.
- Manual and Warranty

### Terms & Conditions:

For most customers, payment for all products is required prior to shipment. Net 30 terms are available to qualified businesses on approved credit. Accepted payment methods are business check, cashiers check or money order, Bank EFT, Visa, Master Card, and American Express.

Please review the Terms and Conditions of Sale prior to placing an order.

### Shipping:

Ground shipping is included for destinations within the continental United States. Expedited, Express and International shipping rates are available on request. Standard lead time is 7-10 days ARO.

**Please call (866) 358-9955 to place an order, or for any questions concerning our products.**

# COMMERCIAL SALE TERMS & CONDITIONS

These terms and conditions of sales are the terms and conditions upon which John Chadwick Corporation ("JCC") will make all sales. JCC will not accept any other terms and conditions of sale, unless Buyer and JCC have executed a master contract specifically superseding these terms and conditions. Acceptance of all purchase orders is expressly made conditional upon Buyer's assent, expressed or implied, to the terms and conditions set forth herein without modification or addition. JCC's acceptance is expressly limited to the terms and conditions hereof in their entirety without addition, modification or exception, and any term, condition or proposals hereafter submitted by Buyer (whether oral or in writing) which is inconsistent with or in addition to the terms and conditions set forth hereon is objected to and is hereby rejected by JCC. JCC's silence or failure to respond to any such subsequent or different term, condition or proposal shall not be deemed to be JCC's acceptance or approval thereof.

## ACCEPTANCE

Buyer's acceptance of these terms and conditions shall be indicated by any of the following, whichever first occurs: (a) Buyer's making of an offer to purchase products from JCC; (b) Buyer's written acknowledgment hereof; or (c) Buyer's acceptance of any shipment of products from JCC.

## DELIVERY

Unless otherwise agreed in writing, delivery shall be made in accordance with JCC's shipping policy in effect on the date of shipment. For all transactions, title to, and all risk of loss or damage with respect to purchased products shall pass to Buyer upon delivery by JCC to the shipping carrier or Buyer's representative at JCC's facility. JCC assumes no responsibility for charges attendant to Customs clearance in the country of delivery, customs duty, VAT or any other charges or taxes within the country designated for delivery by the Buyer. Delivery is subject to the payment provisions set forth herein and to JCC's receipt from Buyer of all necessary information and documentation including all import certificates, exemption certificates, licenses and other documents as may be required from Buyer. Buyer shall promptly notify JCC, in no event later than five (5) business days after delivery, of any claimed shortages or rejection as to any delivery. Such notice shall be in writing and shall be reasonably detailed, stating the grounds for any such rejection. Failure to give any such notice within such time shall be deemed an acceptance in full of any such delivery. JCC shall not be liable for any shipment delays beyond the reasonable control of JCC, including, but not limited to, delays caused by natural disasters, acts of war; acts or omissions of Buyer; fire, strike, riot, or governmental interference; unavailability or shortage of materials, labor, fuel or power through normal commercial channels at customary and reasonable rates; failure or destruction of plant or equipment arising from any cause whatsoever; or transport failures.

## PRICE AND PAYMENT

Buyer acknowledges and agrees that the amount due JCC is contracted in U.S. Dollars and that payment is required in U.S. Dollars. Buyer shall bear all applicable federal, state, municipal and other government taxes, as well as import or customs duties, license fees and similar charges, on the sale of products or the delivery thereof. Exemption certificates must be presented prior to shipment if they are to be honored. Net 30 terms are available to qualified businesses on approved credit. Notwithstanding any "net" payment provisions specified on the invoice, JCC shall have no continuing obligation to deliver Products on credit, and any credit approval may be withdrawn by JCC at any time and without prior notice. Customers not eligible for net 30 terms are required to pay in full for all products prior to shipment. Accepted payment methods are business check, cashiers check or money order, funds (bank wire) transfer, Visa, Master Card, and American Express. Buyer's failure to make timely payment may result in such action as commencement of proceedings for collection, revocation of credit, stoppage of shipment, delay or cessation of future deliveries, repossession of unpaid delivered goods and termination of any one or more sales agreements. In the event the sales invoice shall be placed by JCC in the hands of an attorney for the purpose of collection, with or without litigation, the Buyer agrees to pay any and all costs associated with such placement, including, without limitation, attorney's fees and costs incurred prior to, during, or subsequent to trial, and including, without limitation, collection, bankruptcy, or other creditor's rights proceedings.

## PRODUCT RETURNS

**No refunds are given; products may be returned for exchange or repair only.** No returns are accepted without prior approval from JCC. Items returned without a prior authorization will be refused. The right to return defective products shall constitute JCC's sole liability and Buyer's exclusive remedy in connection with any claim of any kind relating to the quality, condition or performance of any product. In the event JCC issues a return authorization to Buyer allowing Buyer to return product to JCC, Buyer will deliver product to JCC's address in the United States, and Buyer shall bear all applicable federal, state, municipal and other government taxes as well as import or customs duties, license fees and similar charges, however designated or levied, on any replacement Product to be shipped by JCC to Buyer.

## LIMITATION OF LIABILITY

JCC shall not be liable under any circumstances for any special, consequential, incidental, punitive or exemplary damages arising out of or in any way connected with the agreement to sell product to Buyer or the product, including, but not limited to, damages for lost profits, loss of use, lost data or for any damages paid by Buyer to third parties. The foregoing limitation of liability shall apply whether

# COMMERCIAL SALE TERMS & CONDITIONS

any claim is based upon principles of contract, warranty, negligence or other tort, breach of any statutory duty, principles of indemnity or contribution, the failure of any limited or exclusive remedy to achieve its essential purpose, or otherwise.

## APPLICABLE LAW, NO RESALE

You agree to comply with all applicable laws and regulations of the various states and of the United States. You agree and represent that you are buying only for your own internal use only, and not for resale. JCC has separate terms and conditions governing resale of product.

## EXPORT

The goods may be subject to export controls and regulations of the U.S., the country of manufacture, or the country of shipment, and export may require a valid export license. Seller's acceptance of Buyer's order and delivery of goods is conditioned on compliance with applicable export controls. Seller will have no obligation to sell or deliver any product until all required US and/or other export licenses have been granted and there are no other impediments arising from any applicable export regulations. No goods sold to Buyer may be exported or re-exported unless such export or re-export complies fully with all applicable export regulations

## GENERAL

These terms and conditions shall constitute the final, complete and exclusive agreement of the parties with respect to all sales by JCC to Buyer and shall supersede all prior offers, negotiations, understandings and agreements. Unless Buyer and JCC have executed a master contract which specifically supersedes and replaces the terms and conditions herein, it is expressly agreed that no prior or contemporaneous agreement or understanding, whether written or oral, shall contradict, modify, supplement or explain the terms and conditions contained herein. No additional or different terms or conditions, whether material or immaterial, shall become a part of any sales agreement unless expressly accepted in writing by an authorized officer of JCC in the United States. Any waiver by JCC of one or more of these terms and conditions or any defaults hereunder shall not constitute a waiver of the remaining terms and conditions or of any future defaults hereunder. No failure or delay by either party in exercising or enforcing any right hereunder shall operate as a waiver thereof or preclude any other exercise or enforcement of rights hereunder. Any provision of these terms and conditions that is prohibited or unenforceable under the laws of the State of California shall be ineffective to the extent of such prohibition or unenforceability, without impairing or invalidating the remaining provisions of these terms and conditions. All sales agreements shall be deemed made in, and shall be governed by, the laws of the State of California. The venue for any disputes arising out of any sales agreement shall be, at JCC's sole and exclusive option, California or the courts with proper jurisdiction at Buyer's location.