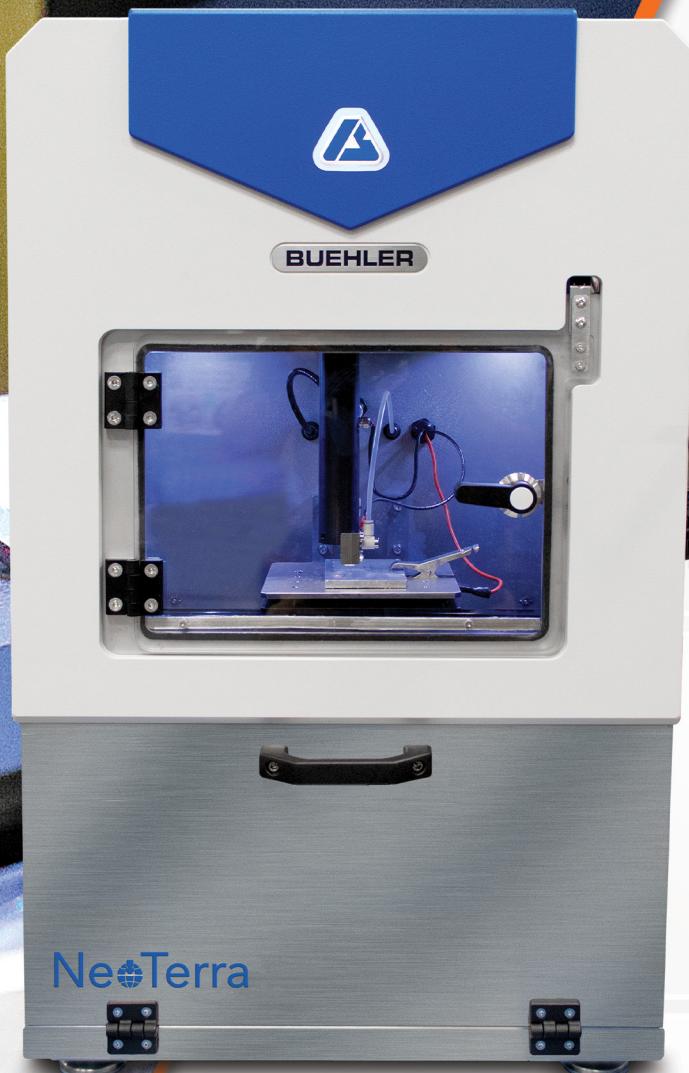


# NeoTerra®

## Electrolytic Metallography System



Fast



Easy

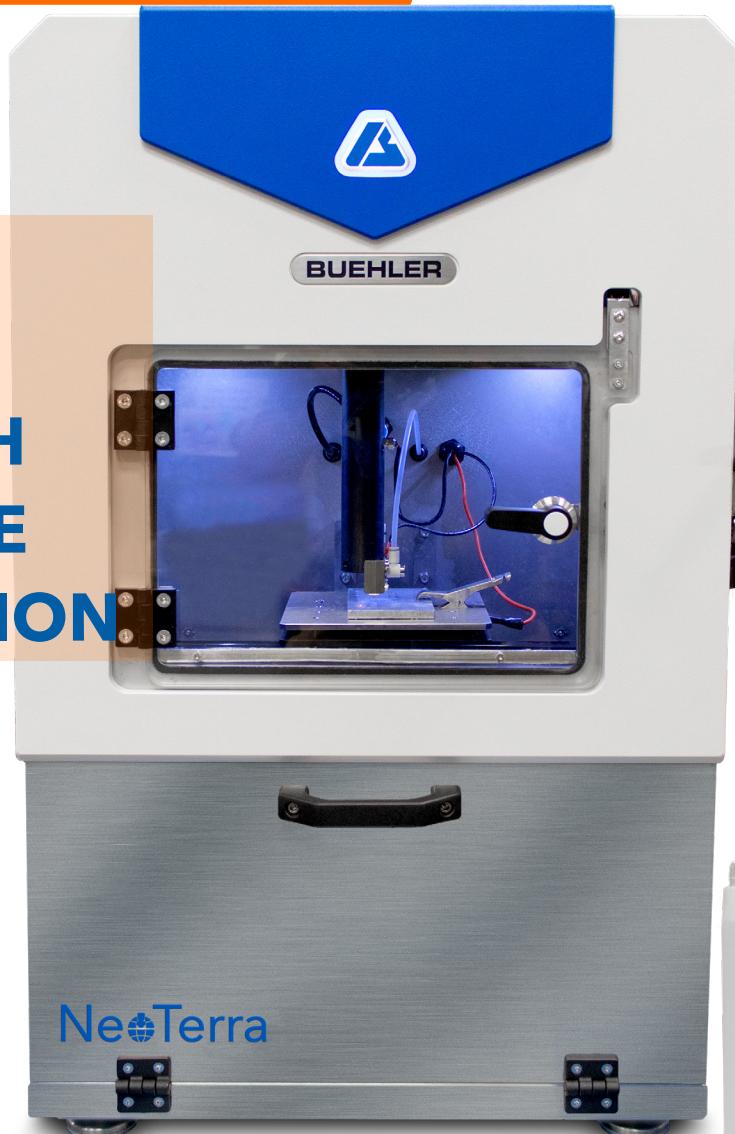


Safe



Electrolytic Metallography System

**A SAFER,  
SMARTER  
APPROACH  
TO SAMPLE  
PREPARATION**



**NeoTerra** prepares samples in minutes using our acid free **TerraBlends**. Skip multiple steps while obtaining consistent, repeatable results from every technician in the lab. Simply select your material, choose a method, select your etch area and run.

The **NeoTerra** also includes a built in washdown function and the **TerraBlends** recirculate in the self-contained system.

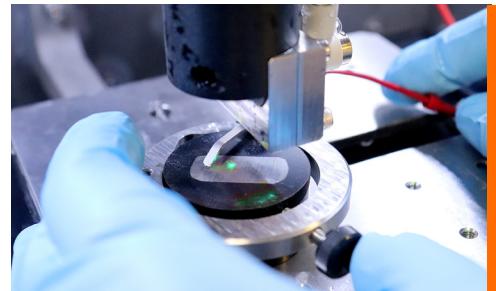


# How does NeoTerra™ work?



1

## Prep & Place



Start with a fast, reduced-step grinding and polishing workflow. Then load the sample into NeoTerra and establish the circuit.

2

## Target & Tap



Use the joystick and laser sight to select your target area. Choose your pre-programmed method with just a tap.

3

## Press Play & Reveal



Press play and watch NeoTerra reveal the microstructure.



Scan to view the **NeoTerra** Demonstration Video or visit [www.buehler.com/neoterra-demo-video](http://www.buehler.com/neoterra-demo-video)

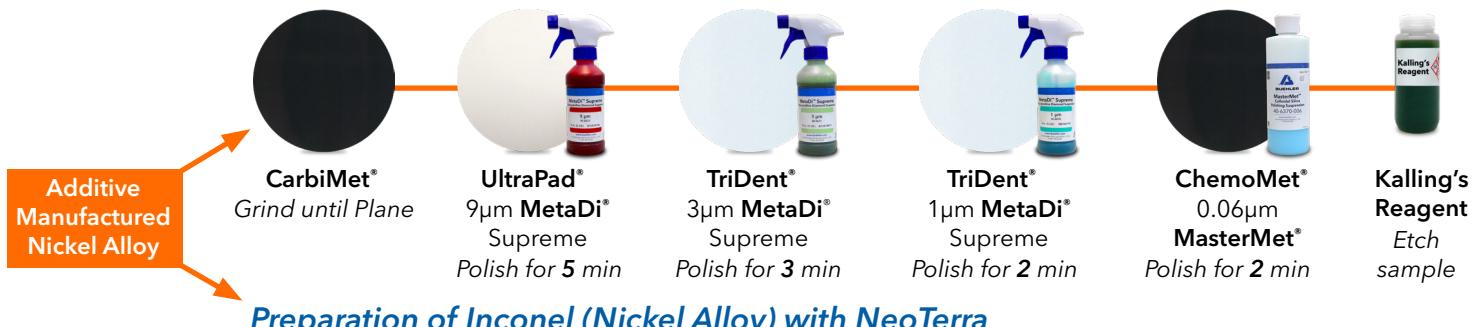


# FAST

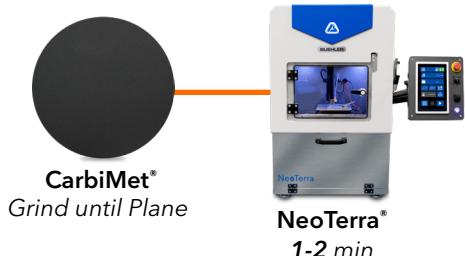
## Great Results with Fewer Preparation Steps

Save time on preparation and analyze sooner. Most NeoTerra preparation methods are 1-2 steps.

### Traditional Preparation of Inconel (Nickel Alloy)



### Preparation of Inconel (Nickel Alloy) with NeoTerra



Prepared with the  
**NeoTerra™**

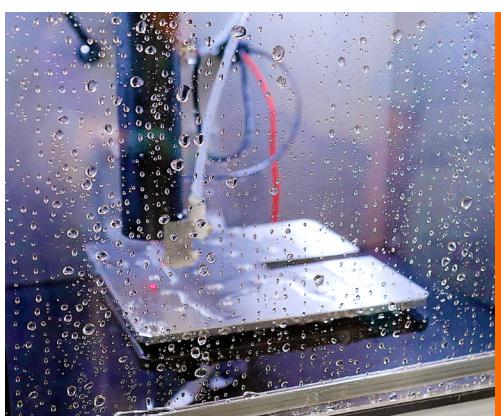
Achieve the same  
great results in **fewer  
steps** and **less time**



# EASY

## One touch Programs Deliver Consistent Results

The interface couldn't be easier. Simply select your material, choose a method, select your etch area and run. **NeoTerra** includes selectable programs for your samples allowing everyone in the lab to achieve good results



For easy cleaning, **NeoTerra** offers both automatic and manual washdown options. An automatic washdown is triggered after a user-defined period of inactivity. Manual washdown is available any time at the touch of a button.





# SAFE

Every step taken to control risks creates a safer environment in the lab. **TerraBlends** do not contain the dangerous chemicals typically used for metallographic etching. Now labs can etch their samples without using a fume hood!



## COMPARISON OF ETCHING METHODS

	Traditional Electrolytic Etching	Chemical Etching	NeoTerra
<b>Preparation time prior to etch</b>	Often saves preparation steps	Full preparation process with high quality polish	Often saves preparation steps
<b>Set up difficulty</b>	Can be difficult to find the right electrolyte, pump settings, etch time, voltage and current.	Can be complex to select the right etchant for purpose	Custom programs stored and recalled. Terrablend type is selected by Buehler.
<b>Repeatability</b>	Repeatable results once set up complete unless etch area is changed	Variable results person to person - experience required	Excellent repeatability with virtually no training required even if etch area is changed
<b>Chemicals used</b>	Uses hazardous chemicals that are sometimes explosive-often requiring a fume hood	Uses hazardous chemicals often requiring a fume hood. Some chemical are highly reactive	Safe electrolytes that can be used without a fume hood



## Designed for the Needs of Busy Labs



The unique nozzle design does the work of multiple traditional grinding and polishing steps.



Select your etch area using the joystick and laser indicator. The etch area rectangle can be large or small and placed anywhere on the sample.



Vary the number of passes by the nozzle to lighten or darken the etch.



Dual tanks hold 2 acid free TerraBlends that are recirculated, processing hundreds of samples per tank\*. TerraBlend life indicator is customizable to alert users simplifying routine maintenance.



Enjoy cleaning with automatic washdown after a set period of inactivity. A clear indicator shows when the feature is active, and you can also start a washdown anytime directly from the main menu.



Custom recipes created by our Buehler experts specifically for your samples are selectable on the main menu.



# Ordering Information

Part Number	Description
499200	NeoTerra Electrolytic Metallography System 100-240 VAC/50-60Hz Single phase

## Ring Holders for Mounted Samples

Choose these ring holders for use with mounted samples to facilitate setting an electrical circuit.

Part Number	Description
4992000025	Specimen Holder, 1in [25mm]
4992000030	Specimen Holder, 1.25in [30mm]
4992000040	Specimen Holder, 1.5in [40mm]
4992000050	Specimen Holder, 2in [50mm]
4992000001	Specimen Holder, Unmounted

## TerraBlends® Bundle

Acid-Free solution for use with the NeoTerra.

Part Number	Description
499221	Terrablend 1 5L with replacement filter
499222	Terrablend 2 5L with replacement filter



## Conductive Mounting Media

The fastest and easiest method to set the electrical circuit. Especially when working with small samples.

Part Number	Description
20-3385-064	ProbeMet® 4 lbs [1.8kg]



# Technical Specifications

<b>Machine Dimensions</b>	Width: 35in [889mm] Depth: 27.5in [699mm] Height: 30.5in [775mm]
<b>Max. Sample Size</b>	6in x 6in x 2in
<b>Maximum Polishing Etch Area</b>	3.6in [93mm] X 3.7in [96mm]
<b>Voltage</b>	110-220 (-15/+10%)VAC, 50/60Hz, Single Phase
<b>Max Wattage</b>	3000 W
<b>Weight</b>	150lbs [68kg]





**BUEHLER**



- Lake Bluff, IL, US
- Coventry, UK
- Dardilly, FR
- Leinfelden-Echterdingen, DE
- Shanghai, CN
- Tokyo, JP

## Worldwide Locations

Solutions for Materials Preparation, Testing and Analysis

### **BUEHLER Worldwide Headquarters**

#### **BUEHLER North and South America**

41 Waukegan Road, Lake Bluff, Illinois 60044

**P:** +1 847 295 6500 | **800 BUEHLER** (800 283 4537)

**W:** [www.buehler.com](http://www.buehler.com) | **E:** [info@buehler.com](mailto:info@buehler.com)  
[shop.buehler.com](http://shop.buehler.com)

#### **European Headquarters**

##### **BUEHLER Germany - Leinfelden-Echterdingen**

##### **ITW Test & Measurement GmbH**

**P:** +49 (0) 711 4904690-0

**W:** [www.buehler-met.de](http://www.buehler-met.de) | **E:** [info.eu@buehler.com](mailto:info.eu@buehler.com)  
[www.metallographie.biz](http://www.metallographie.biz)

#### **BUEHLER France - Dardilly**

**P:** +33 (0) 800 89 73 71

**W:** [www.buehler.fr](http://www.buehler.fr) | **E:** [info.eu@buehler.com](mailto:info.eu@buehler.com)  
[www.metallographie.fr](http://www.metallographie.fr)

#### **BUEHLER United Kingdom - Coventry**

**P:** +44 (0) 800 707 6273

**W:** [www.buehler.co.uk](http://www.buehler.co.uk) | **E:** [info.eu@buehler.com](mailto:info.eu@buehler.com)  
[www.metallography.biz](http://www.metallography.biz)

### **Asia Headquarters**

#### **BUEHLER China - Shanghai**

ITW Test & Measurement (Shanghai) Co., Ltd.

Asia Headquarters

**P:** +86 400 111 8683

**W:** [www.buehler.cn](http://www.buehler.cn) | **E:** [info.cn@buehler.com](mailto:info.cn@buehler.com)

#### **BUEHLER Japan**

**P:** +81 03 5439 5077

**W:** [www.buehler.jp](http://www.buehler.jp) | **E:** [info.japan@buehler.com](mailto:info.japan@buehler.com)