



EcoMet 30

# EcoMet™ 30

## Grinder - Polisher

# EcoMet™ 30

## Grinder-Polisher Systems



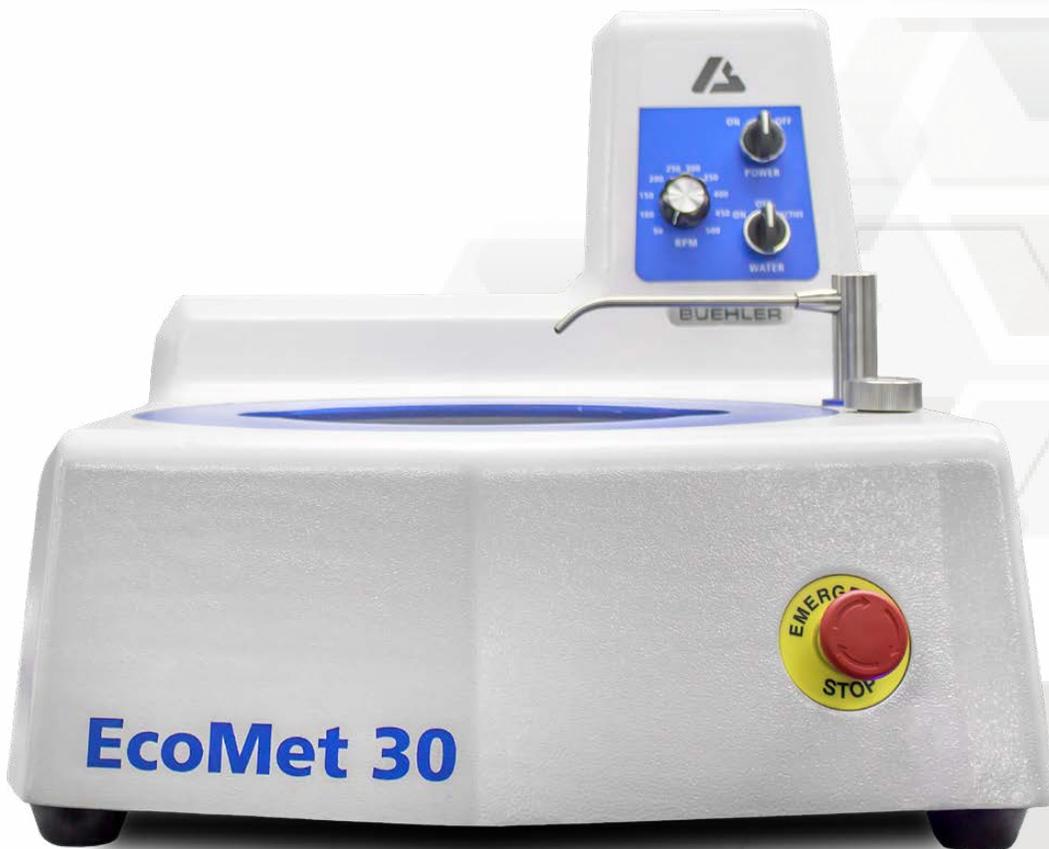
**EcoMet 30**  
Semi-Automatic  
Single and Twin



## EcoMet 30 Features

The EcoMet 30 family provides simple operation for routine grinding and polishing. The comfortable splash guard design allows for excellent control during manual grinding. The semi-automatic units are controlled with a touchscreen interface. All regularly used functions are accessed on the front screen with no complicated menus that can add time to the process and one-touch stored steps on the main menu make recall of commonly used settings easy. The EcoMet 30 saves time with advanced cleaning features. The all metal casting is durable and stable for use in busy lab environments.

## *Grinding & Polishing Made Simple*



**EcoMet 30  
Manual  
Single and Twin**



# Easy to Use

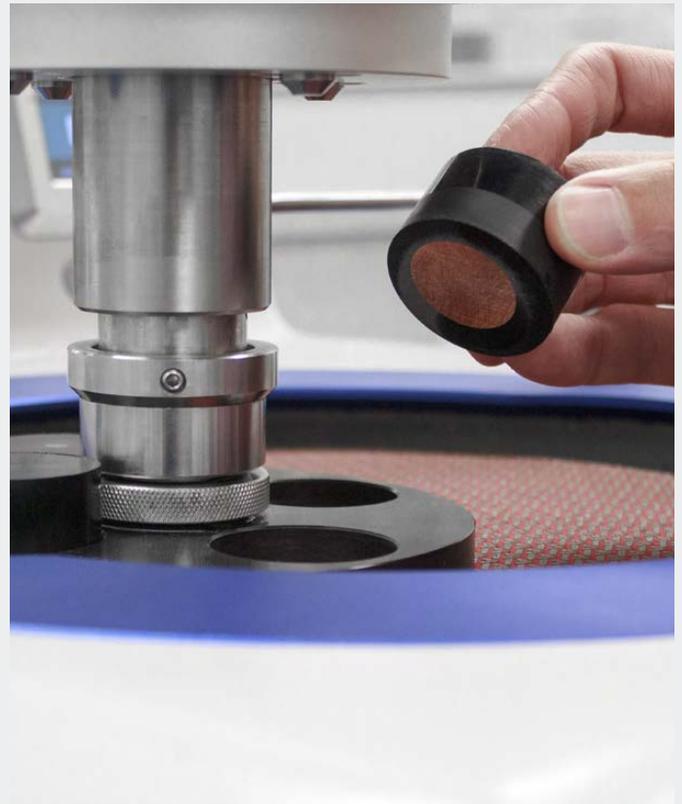
## User Friendly TouchScreen

The EcoMet 30 Semi-Automatic provides simple operation for grinding and polishing with a user-friendly touchscreen interface. All regularly used functions are on the front screen without complicated menus. Store the parameters of up to 5 steps and recall with a single touch.



## Easy Specimen Loading

The EcoMet 30 Semi-Automatic system has a swing out head and easy load specimen holders to save time when accessing samples between preparation steps.



# Durable

The EcoMet 30 was designed and extensively tested in continuous use laboratories. The robust cast aluminum platform used on both the Semi-Automatic and Manual models greatly enhances performance and durability.

## Rinse & Spin Function

A rinse and spin function is included on the semi-automatic versions to prevent cross contamination between polishing steps. At the touch of a button the rinse and spin function will turn on the water, spin the platen at a user defined speed for a user defined time. The water is turned off during the last 10 seconds of the cycle to remove excess water in preparation for the next polishing step.

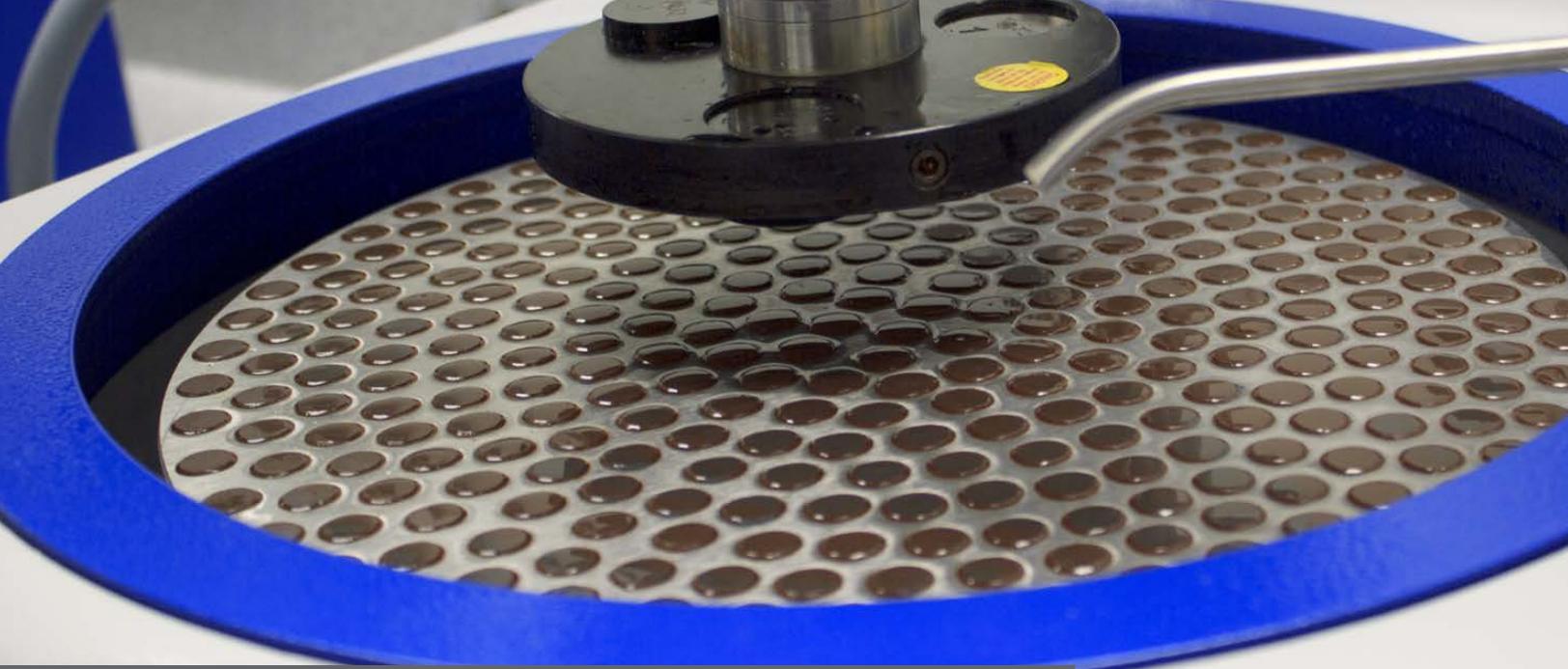


On the main screen, press and hold the "Rinse and Spin" button to begin the cycle.

## Burst Dispensing

The EcoMet 30 Semi-Automatic units can be connected to the Burst Dispensing System for increased throughput in the lab. The Burst will automatically dispense during the cycle allowing a user to operate other machines during the polishing process.





# Simple Cleaning

## Easy to Remove Platen

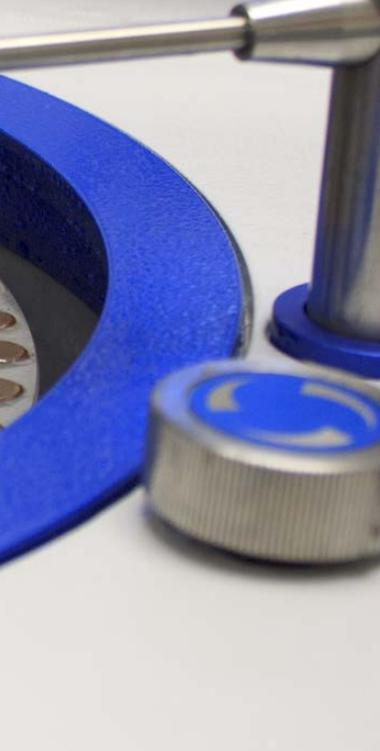
Deep clean more frequently and prevent cross contamination with our easy to remove platen. Simply lift the platen to remove it from the machine without any tools to access the bowl for cleaning.



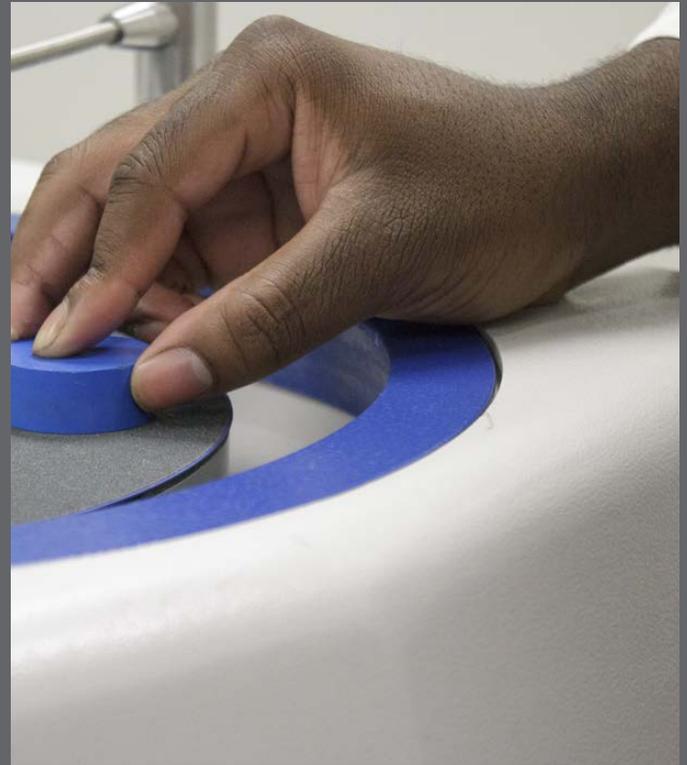
## Quick Clean Bowl Liner

With the platen removed, simply rinse or replace the bowl liner and place back into the bowl. Insert the platen and begin polishing.





# Ergonomic Design



Large flat work space and ergonomic bowl height provides better control and more comfort for manual polishing. The additional control improves sample quality and reduces grinding time.

# Straight Drain System

Minimizes debris build up and saves cleaning time.



Low force switches and large touchscreen buttons provide an easy to reach and easy to see solution for all lab users.

# Ordering Information

## Get Started

Four models are available to meet lab needs. All models come with a Bowl Liner(s).

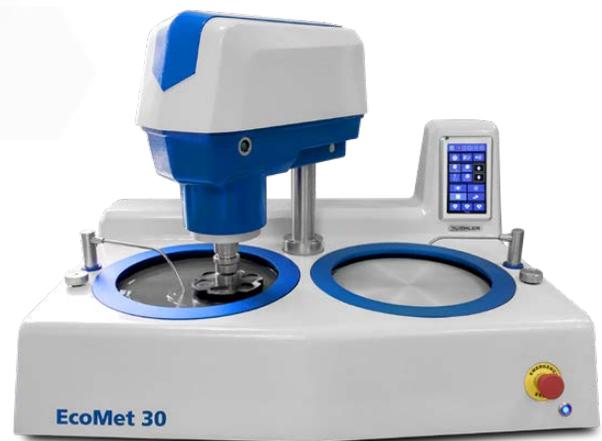
EcoMet 30 Manual (49-10070)

EcoMet 30 Manual Twin (49-10072)



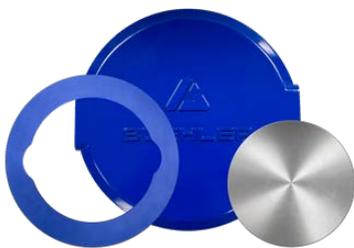
EcoMet 30 Semi-Automatic (49-10075)

EcoMet 30 Semi-Automatic Twin (49-10076)



## Add a Platen Kit

Platen kits include a platen, splash guard and cover. All EcoMet 30 models are capable of running 8in [203mm], 10in [254mm] or 12in [305mm] platens.



8in [203mm] Platen Kit  
(49-1008)

10in [254mm] Platen Kit  
(49-1010)

12in [305mm] Platen Kit  
(49-1012)

## Replacement Bowl Liners

Each EcoMet 30 ships with a Bowl Liner for each bowl. Order additional Bowl Liners to replace the original Bowl Liner.

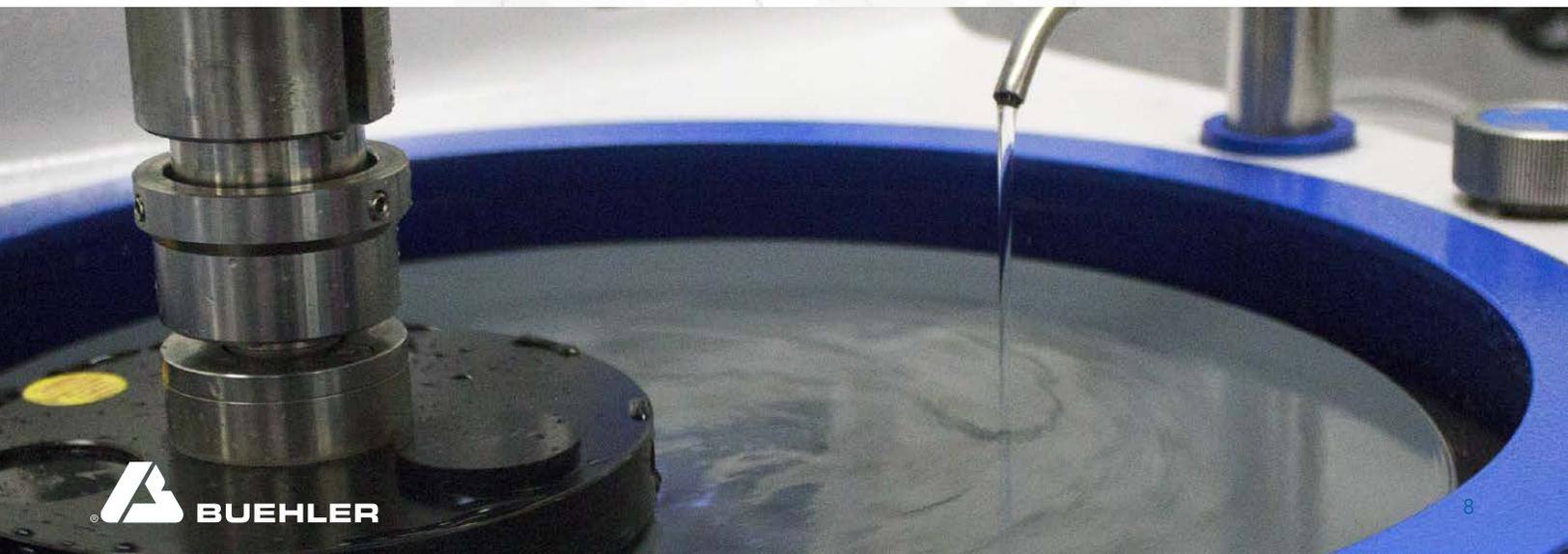


Bowl Liner (Qty 5)  
49-1005



# Technical Specifications

	EcoMet 30 Manual	EcoMet 30 Manual Twin	EcoMet 30 Semi Auto	EcoMet 30 Semi Auto Twin
Machine Power	100-240VAC,50/60Hz,1 phase			
Motor Power	300W	440W		
Platen Diameter	8in [203mm], 10in [254mm], 12in [305mm]			
Platen Wheel Speed	50-500rpm stepless speed regulation		50-500rpm in 50rpm increments	
Wheel Direction	Counter-Clockwise		Platen:Counter-Clockwise, Head:Clockwise/Counter-Clockwise	
Power Usage	0.64kW,5.6/2.78A @115/230VAC	0.97kW8.5/4.1A @115/230VAC	1kW,8.8/4.3A @115/230VAC	
Control Panel	Membrane with switch switch		Full color LCD Screen, 7in [75mm] diagonal	
Program Storage	5 saved steps with password protection			
Water Supply Pressure	40-116 psi (2.7-8 bar)			
Water Supply Hose	0.25in [6mm] OD tube			
Sound Rating	65dB @ 500rpm		65dB @500rpm & 200rpm head	
Head Motor Power	300W			
Weight	102lbs [46kg]	154lbs [70kg]	165 lbs [75kg]	231.5 lbs [105kg]
Dimensions (L x D x H)	19.7in x 25.6in x 17.7in [500mm x 650mm x 450mm]	37.4in x 26in x 17.7in [950mm x 660mm x 450mm]	19.7in x 25.6in x 25.6in [500mm x 650mm x 650mm]	37.4in x 26in x 25.6in [950mm x 660mm x 650mm]
Head Wheel Speed	30-200rpm in 10rpm increments			
Central Specimen Force	5-40lbs [25-200N]			
Single Specimen Force	1-10lbs [5-40N]			
Central Force Specimen Capacity	1in,1.25in,1.5in,25mm,30mm,40mm			
Single Force Specimen Capacity	1in,1.25in,1.5in,25mm,30mm,40mm			
Air Supply Hose	0.25in [6mm] OD tube			
Air Supply Pressure	≥0.4Mpa [58 psi], [4 bar]			
Compliance	CE Directives			



# EcoMet 30 Accessories

Sample holders are designed to facilitate process automation and optimization. Many options for different sample sizes and shapes are available depending on the shapes, sizes, and capacities required.

## Single Force Specimen Holders

○ Round/Barrel   
 □ Rectangle   
  Slides   
 ∇ Teardrop

For use with 60-9005 Drive Adapter

Part Number	Style	Size	Capacity	Additional Accessories
60-10060	○	1in	4	63-1022 Retaining Rings (Qty 6pk)
60-10061	○	1.25in	4	63-1023 Retaining Rings (Qty 6pk)
60-10062	○	1.5in	4	63-1024 Retaining Rings (Qty 3pk)
60-10063	○	25mm	4	63-1022 Retaining Rings (Qty 6pk)
60-10064	○	30mm	4	63-1023 Retaining Rings (Qty 6pk)
60-10065	○	40mm	4	63-1024 Retaining Rings (Qty 3pk)



## Central Force Specimen Holders

○ Round/Barrel   
 □ Rectangle   
  Slides   
 ∇ Teardrop

For use with 60-9000 Drive Adapters

Uses Loading Plates 60-2411 or 60-2413, 130mm diameter for 8", 10" or 12" platens

Part Number	Style	Size	Capacity
60-2482	○	1in	6
60-2483	○	1.25in	6
60-2484	○	1.25in	3
60-2422	∇	1.25in [32mm]	6
60-2485	○	1.5in	3
60-2486	○	30mm	6
60-2487	○	40mm	3
60-2409	□	1 x 1.25in [25.4 x 31.75mm]	4



Uses loading plates 60-2411 or 60-2412 157mm diameter for 10" or 12" platens

60-8240	∇	18 - 51mm	5
60-8210	∇	12 - 40mm	6
60-8262	∇	10 - 25mm	12
60-8254	□	55 x 30mm	5
60-8255	□	70 x 40mm	3



# Accessories for Specimen Holders

## Loading Fixtures and Plates



Used for loading Central Force Specimen Holders to ensure planar samples.

Part Number	Description
60-2410	Loading Fixture
60-2411	Loading Plate for 130mm and 157mm diameter
60-2412	Loading Plate for 157mm and 181mm diameter
60-2413	Loading Plate for 130mm and 181mm diameter

## Drive Adapters



Pairs specimen holders to the chuck of the automatic head

Part Number	Description
60-9000	Central Force
60-9005	Single Force

# Independent Burst Dispensing System for EcoMet 30

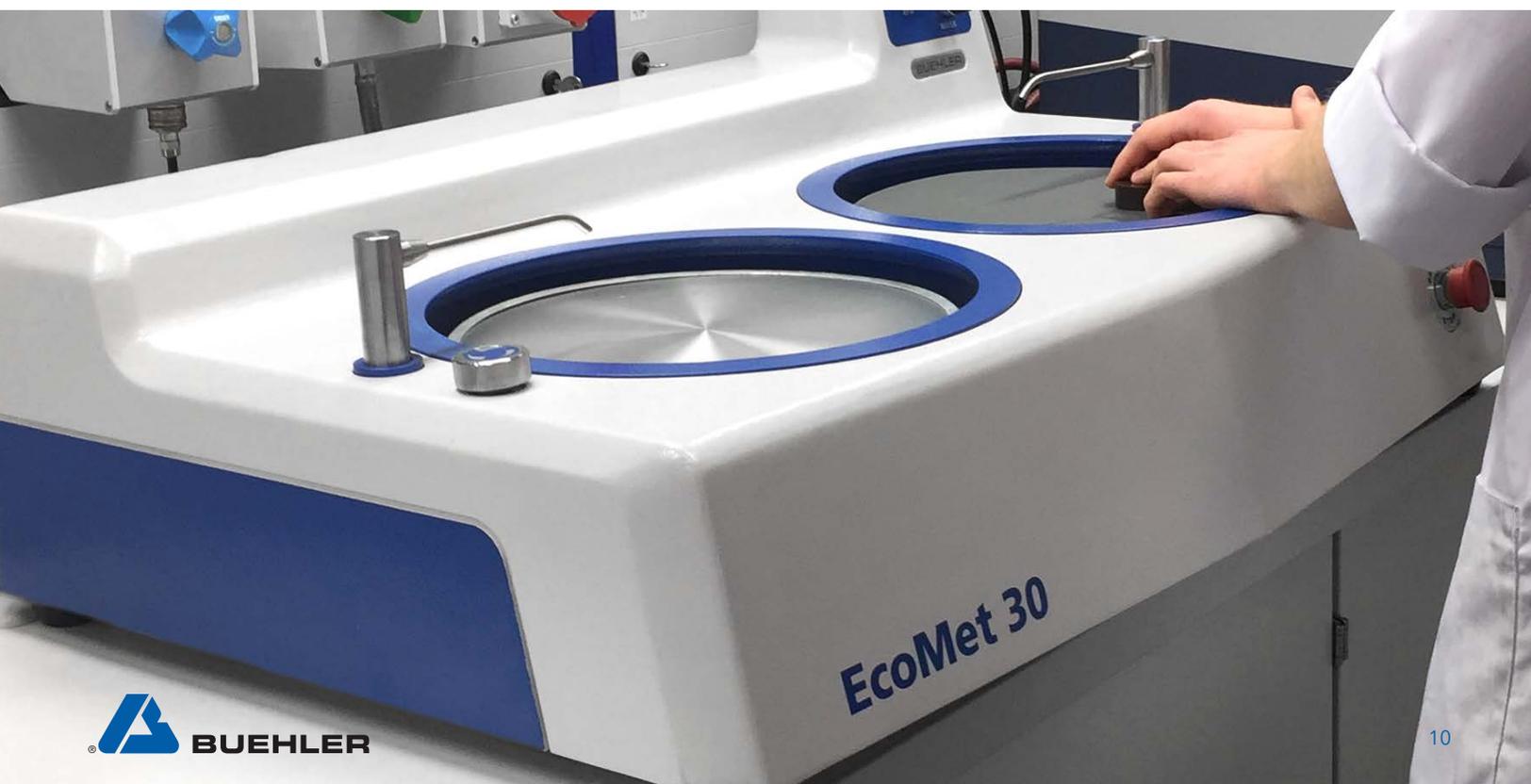
The Burst Dispensing System is a flexible, easy to operate dispensing system for all diamond and final polishing suspensions. This product improves both productivity and consistency by dispensing suspensions at fixed intervals and configurable rates.



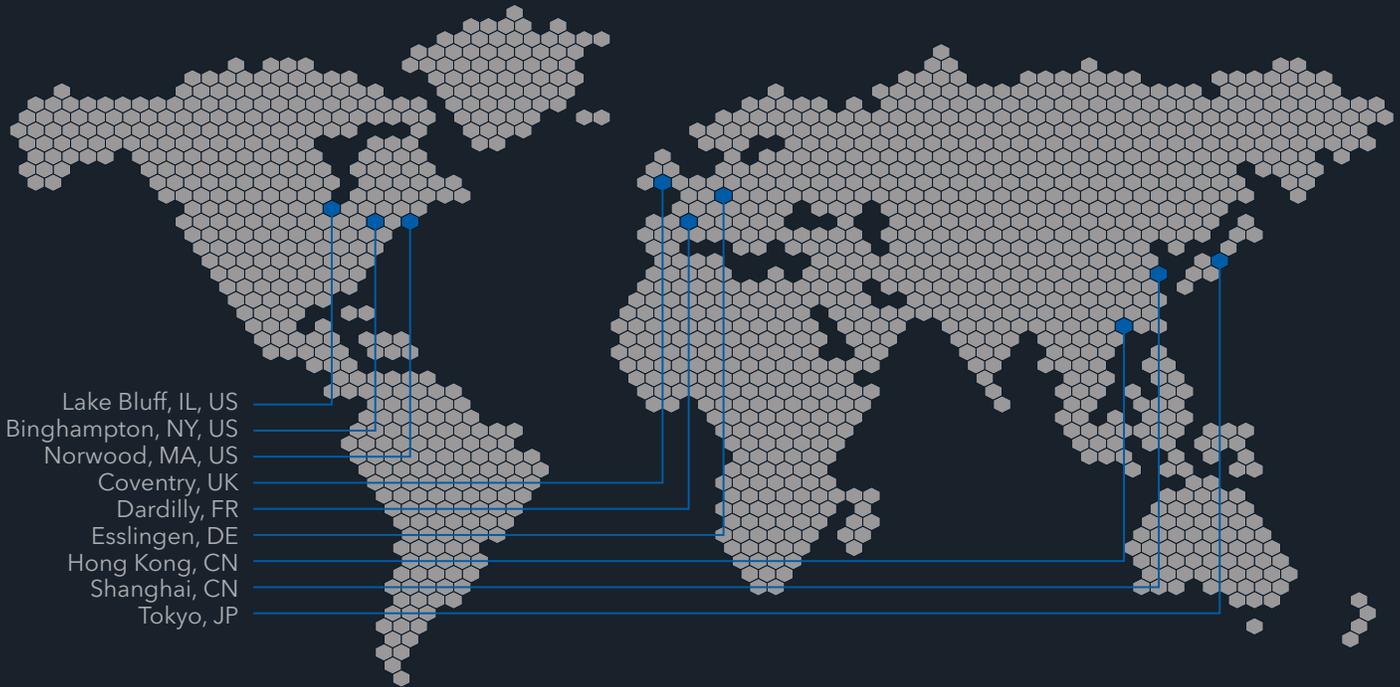
For Semi-Automatic units, utilize the connection cable to connect up to 3 Burst modules.

For Manual units, activate dispensing directly on the Burst module or use the Hand Switch.

Part Number	Description
40-10005	Burst Module
40-2823	Hand Switch
00-10100	Stir Bar (optional)
40-2704	Connection Cable for semi-Automatic units



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