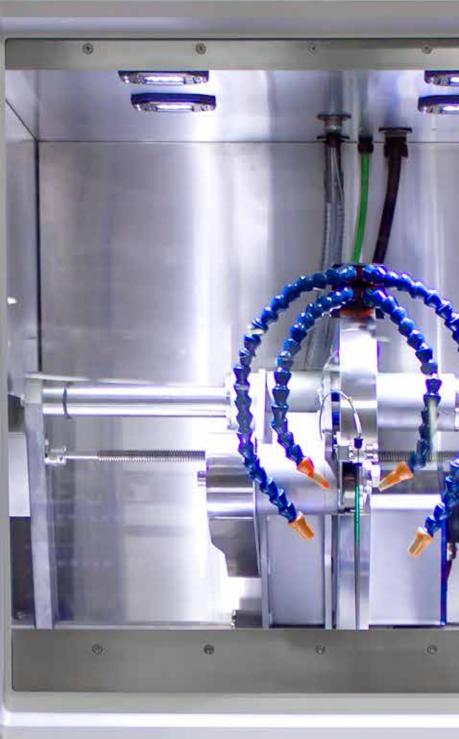
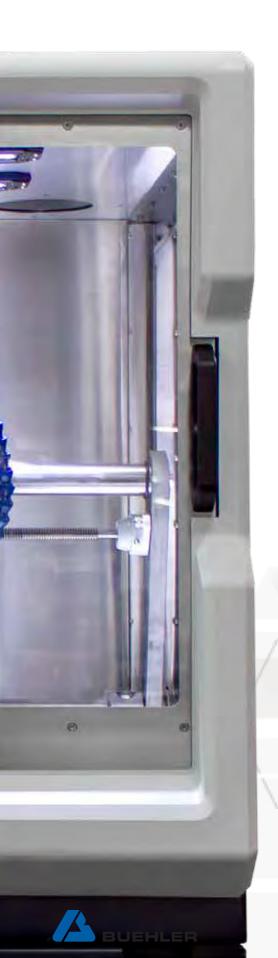


AbrasiMet[™] XL Pro







AbrasiMet XL Pro is Designed for Demanding Environments

The AbrasiMet XL Pro provides consistent and repeatable cut quality for large samples with programmable methods, automatic cutting and many advanced features. The intuitive user interface, robust design and expanded chamber are ideal in demanding environments.



- Precisely align samples with 3 axis manipulation of the blade and table
- Cut hard and large materials with the 13.4 hp [10kW] motor equipped with SmartCut



- · Fit large parts up to 49" [1245mm] in width in the chamber
- Use serial cutting mode to perform multiple automatic cuts without user interference
- Utilize the NEW recirculation system to quickly empty debris from the system without the use of consumables
- · Save Time, Have More Flexibility, Trust The Reliability



POWERFUL ROBUST INTUITIVE



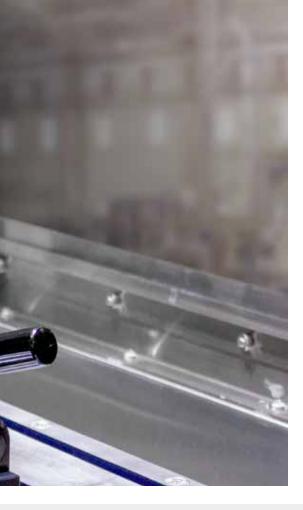
High-Output Motor

The AbrasiMet XL Pro comes with an incredibly powerful 13.4hp [10kW] motor allowing it to cut through both large and high-strength materials quickly, saving the user time in the sectioning process. When equipped with SmartCut, which changes the feed rate to the fastest optimal speed for the sample cut, the motor can cut continuously without stalling for as long as is needed.









Expanded Chamber Size

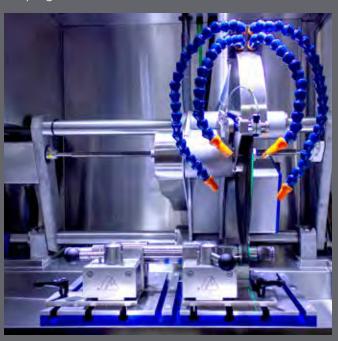
The motor is separated from the spindle and blade and therefore cannot interfere with the parts and clamping features in the chamber while making a cut. With the motor out of the way, the maximum part size for this expanded chamber is 49in W x 25in D x 7in H [1245 x 635 x 178mm] which is large enough to cut most parts in a production environment.



Robust

Enclosed Motor

The AbrasiMet XL Pro motor is separated from the spindle by a belt drive. The encased motor-cutting arm system increases the reliability of the system by keeping coolant and debris out.



Lifetime Testing

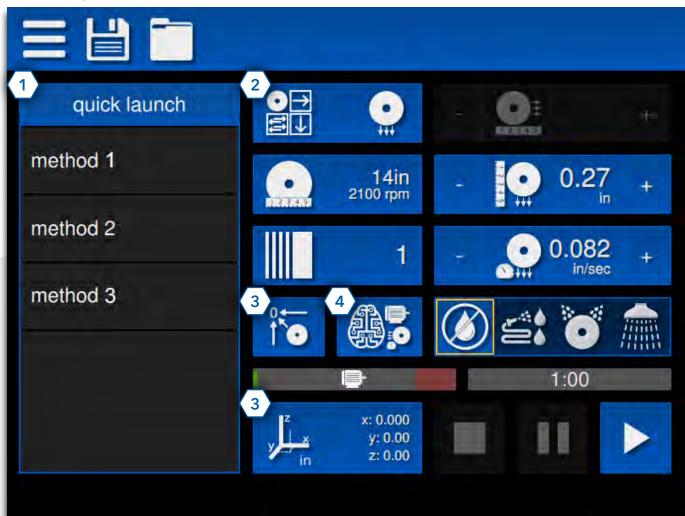
The AbrasiMet XL Pro is engineered to meet the rigorous demands of a high-volume quality control environment. The strong machine design has gone through extensive life testing to validate its ability to withstand constant usage while maintaining a high quality cut.





Intuitive Interface

The intuitive user interface is one of the key ways in which The AbrasiMet XL Pro makes the sectioning process easier. All recent programs and primary sectioning functions are on the main screen making it easy to either launch a program or set up your cut in as little time as possible.



Repeatable Cut

Saved methods make loading the correct program easy to quickly start your cut. By reducing the time in between cuts, the total cycle time is reduced.

Cut Type

The cut type screen opens a menu to choose between 4 cutting types: Z-cut, Y-cut, planar cut, and manual cut. The flexibility in cutting method allows the user to choose the cutting option best for their needs.

Homing and Tracking

The machine always keeps track of its relative position in comparison to the home position. This allows the user to repeatably make the same cut by returning to the set "Home" position.

Variable SmartCut

Smart Cut takes the guess work out of setting appropriate feed rate for material samples of varying hardness and dimension. The smart cut system automatically adjusts the feed rate to limit the potential for damage to the motor, abrasive blade and sample in the event motor load approaches its max limit. By doing this, SmartCut helps the user optimize feed rate and cut quality for any given application.

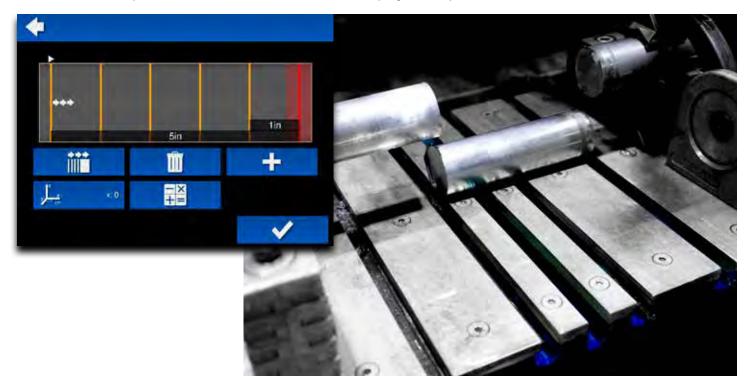


With Variable SmartCut, the first variable motor limiting function by Buehler, users can now set the level of SmartCut protection to maximize the motor reliability and optimize the machine for the best cut quality for the given application. HigherSmartCut protection limits the load and wear on the motor and can increase the motor and blade lifetime.



Serial Sectioning

Set up multiple cuts to be automatically performed by the machine. With precise X movement of the blade, users can set uniform or custom cut widths to perform the desired sections without re-clamping the sample.



Customize to Your Application



Cleaning & Washdown

Both the washdown and spray hose features can be activated through the touch screen. Users can clean the viewing windows with the washdown feature, which sprays coolant fluid to increase visibility. Users can use the external spray nozzle to rinse and clean the chamber.



Table Collision Warning

Introducing the **NEW** "Table Collision Warning" feature to reduce the risk of cutting into the vise table. Set the maximum cut depth and a warning message will appear if a user attempts to cut below this limit.

Programmable Features



SmartCut

Protects the motor from stalling and automatically adjusts to max speed for part size and hardness



SmartCut Sensitivity

Set the level of SmartCut Protection to optimize the machine for a specific application



Serial Cut

Cut multiple samples in one program



Passcode Lock

Selectively lock out machine settings



Table Collision Warning

Set Z-limit to protect T-slot table from being cut.



Movement Tracking

Track movement and set "home" position



Homing Button

Automatically bring blade and table to "Home" position



Washdown

Set the time for washdown when activated



Saved Methods

Save programmed cut parameters



Green Laser

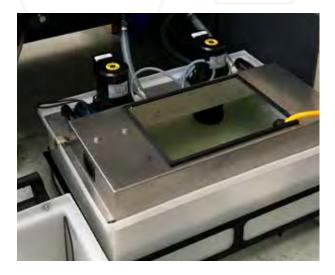
Easy alignment of cut on sample

Recirculation/Filtration Tank

Buehler's new recirculation tank design makes the cleaning process simpler and faster without using any consumables, allowing users to spend more of their time on the rest of the sample prep process.

The system comes equipped with two powerful pumps which will always ensure quality cuts with a strong coolant flow. The high capacity of the system, 45gal [170L], in combination with the design, maximizes the time in between cleaning out the full system.





The dual tank design is the differentiating feature of the system. By regularly cleaning out the inner tank, which traps large debris, users can extend the lifetime of their coolant and spend less time cleaning the full system. Additionally the system comes equipped with a vibration unit to keep the filtration screen clear and compact the debris to further extend the time between cleanings.

When it comes time to clean out the entire system, simply detach the recirculation system from the machine and roll it to the disposal area.



Technical Specifications

AbrasiMet XL Pro

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Cut Operation	Automatic, Manual, or Smart Cut control Linear Blade Feed	
Units	English and Metric	
Blade Movement Axis	Horizontal, Vertical (X,Z)	
Table Movement Axis	Linear (y)	
Cut Type	Chop, Y-Feed, Planar	
Display	10.5in [267mm] LCD Display with LED Back lighting	
Controls	Touch Screen; Joystick Controller	
Lighting	4 LED Strip, Adjustable brightness	
Programming	Retains Last Settings, Serial Sectioning, Customizable Methods	
Laser	Green Laser (520nm, Class 2)	

Dimensions

Maximum Sample Width	Up to 49in [1245mr	m]		
Cut Length Increment	0.01 in [1mm]			
Recirculation/Filtration Tank Capacity	45 gal [170L]			
T-Slot Table Dimensions	19.9in x 11.8in [505	19.9in x 11.8in [505mm x 300mm]		
Machine Dimensions	Depth:50.7in [1288	Width: 54in [1372mm] Depth:50.7in [1288mm] Height : 75in [1905mm]		
Weight	1750 lbs [794kg]			
Blade Sizes	14in [356mm]	16in [406mm]	18in [457mm]	
Blade Table Clearance	9.71in [247mm]	8.71in [221mm]	7.71in [196mm]	
Cut Capacity	5in [127mm]	6in [152mm]	7in [178mm]	
Blade Speed	2100rpm	1900rpm	1860rpm	

Electrical

13.4Hp [10kW]	
380-480VAC, 3 Phase, 50/60Hz	
25amp @ 460VAC	
Interlock Door Switch, Emergency Stop, 2 Hand Operation for Black Movement (Open Door), Smart Cut	
CE Directives	



Ordering Information

Get Started



AbrasiMet XL Pro

10-2320-400 (3-phase, 400-480 VAC)

Includes:

Quick Lock Nut and Recirculation/Filtration Tank



Quick Lock Nut



Recirculation/Filtration Tank

Required Consumables

Visit www.buehler.com



Abrasive Blades
Range in sizes from
14in [356mm] to 18in [457mm]



Cool 3

10-6010 Water miscible fluid concentrate (2.6gal, 10L)

Optional Accessory

Visit www.buehler.com



Mist Extractor 10-2343-400

Use the Mist Extractor to remove vapor from the chamber and increase visibility. Highly recommended for customers without a current exhaust option.



Vising Options

Large Speed Clamping Vise

10-3547 (Right) 10-3546 (Left)

Max Opening: 7.3" [185mm] **Clamping Plate:** 3.1" x 3.5" [78 x 89mm]



Large Vertical Clamping Kit

10-3528

Provide a strong clamp for parts up to 7in [180mm] in diameter



MetKlamp VIII

95-C1822 (Right) 95-C1821(Left)

Holds specimens up to 1.5in [38mm] from 2 point



Large Riser Blocks

10-3528

Increase the height of the Large Vertical Clamps for larger parts.





Large Sliding Vise Kit

10-3543 (Right) 10-3542 (Left)

Holds parts of any width.



Vee Blocks Clamp Kit

10-3527

Raise samples above the table



Premium Resin Abrasive Blades



Buehler's new resin abrasive blades are individually targeted to cut a full range of metallic materials and last up to 3 times longer than competitor blades. Users can rely on the consistency of the blades while the longevity leads to fewer blade changeovers and purchases. Have confidence in the consistency, cut quality and new prolonged life of these blades to improve your preparation process.

1.25in [32mm] Arbor (Qty 10) Blade thickness for all blades listed below is 0.125in [3mm]

Recommended Use	16in [406mm]		
Non Ferrous Materials	10-31650-010		
Ferrous Materials HRC 50-60	10-31612-010		
Ferrous Materials >HRC 60	10-31610-010		
Super Alloys	10-31605-010		



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