



2024-2025

2024-2025 PRODUCT CATALOG

METALLOGRAPHIC EQUIPMENT AND CONSUMABLES

ABRASIVE & PRECISION CUTTING
COMPRESSION & CASTABLE MOUNTING
GRINDING & POLISHING
MICROSCOPY & ANALYSIS
HARDNESS TESTING
LAB FURNITURE

PRECISION SECTIONING

PICO-155S LOW TO MEDIUM SPEED SAW



PICO-155S

PICO-155S

Precision Cutter with Digital Control

- Precise cutting
- 0.17 hp (125 W) Dynamic torque motor
- Microprocessor controlled with touch screen control
- Internal coolant pump
- Digital feedback speed control
- LED interface display
- Highly reproducible, dependable and robust
- Easy to use

PICO-155P LOW TO MEDIUM SPEED SAW



PICO-155P

PICO-155P

Precision Cutter with Analog Control

- Precise cutting
- Internal coolant pump
- Digital feedback speed control
- LED speed display with analog control
- Highly reproducible, dependable and robust
- Flexible
- Ideal for all materials
- User friendly

PICO-200 VARIABLE SPEED TABLE SAW



PICO-200

PICO-200

Variable Speed Table Saw

- Digital feedback speed control
- LED speed display
- Highly reproducible, dependable and robust
- Easy to use
- Flexible
- Ideal for all materials
- User friendly
- Easy service access

METALLOGRAPHIC WAFERING SAWS

Low to Medium Speed Metallographic Precision Cutter

FEATURE	PICO-155S DESCRIPTION	PICO-155P DESCRIPTION
Control	5-inch touchscreen with Digital LED display	Analog Buttons and Speed Control
Cutting capacity	Max. diameter 2-inch (50 mm)	Max. diameter 2-inch (50 mm)
Coolant	Dual nozzle with pump	Dual nozzle with pump
Table feed	3-inch (75 mm) - 7-inch (175 mm)	3-inch (75 mm) - 7-inch (175 mm)
Arbor size	0.5-inch (12.7 mm)	0.5-inch (12.7 mm)
Variable Speed (rpm)	200-1500 rpm continuously adjustable with digital speed display	200-1500 rpm continuously adjustable with LED speed display
Cutting Load	0-1500 gram load	0-1500 gram load
Micrometer feed distance	0 to 1-inch (0-25 mm)	0 to 1-inch (0-25 mm)
Micrometer accuracy	2 microns	2 microns
Electrical Specification	110V/220V (50/60 Hz) (single phase)	110V/220V (50/60 Hz) (single phase)
Motor power	125W (24V)	125W (24V)
Dimensions (WxDxH)	19 x 23 x 14-inch (48 x 58 x 37 cm) (hood closed) 19 x 29 x 19-inch (48 x 74 x 37 cm) (hood open)	19 x 23 x 14-inch (48 x 58 x 37 cm) (hood closed) 19 x 29 x 19-inch (48 x 74 x 37 cm) (hood open)
Weight	66 lbs (30 kg)	66 lbs (30 kg)
Catalog Number	PICO-155S	PICO-155P

 Machinery Directive 2006/42/EC
 2014/35/ EU Low Voltage Directive
 2014/30/EU Electromagnetic Compatibility Directive

2 year warranty
Limited Warranty

Benefits:

- ◆ Microprocessor controlled (PICO-155S)
- ◆ 200-1500 rpm speeds
- ◆ Accepts 3-7 inch (75-175 mm) wafering blades
- ◆ Built-in digital micrometer
- ◆ Counter balanced loading
- ◆ Sliding weight gravity feed loading up to 1500 grams
- ◆ Built-in coolant system with internal pump
- ◆ Magnetic safety switch
- ◆ Emergency stop switch
- ◆ Optional cutting table attachment

REQUEST A QUOTE
www.metallographic.com

Variable Speed Metallographic Table Saw

FEATURE	PICO-200 DESCRIPTION
Cut-off blade size	Max. diameter 8-inch (200 mm)
Cutting capacity	1.5-inches (38 mm)
Specimen feed	Table feed
Coolant tank	3 Liters
Arbor size	0.5-inch
Variable Speed (rpm)	300-3000 rpm continuously adjustable with LED speed display
Motor power	0.5 hp (400 W)
Electrical Specification	110V/220V (50/60 Hz) (single phase)
Dimensions (WxDxH)	18 x 20 x 14-inch (46 cm x 50 cm x 35 cm)
Weight	85 lbs (38 kg)
Catalog Number	PICO-200

2 year warranty
Limited Warranty

Benefits:

- ◆ Variable cutting wheel speeds from 300-3000 rpm
- ◆ Hard anodized working table
- ◆ Dry or wet cutting
- ◆ T-slot clamping vises for mounting versatility

PRECISION SECTIONING

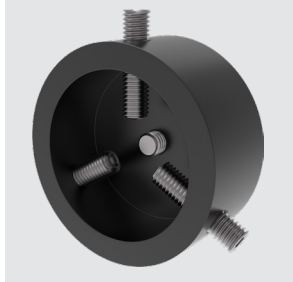
PICO-155P/155S Accessories

32 mm Circular Vise



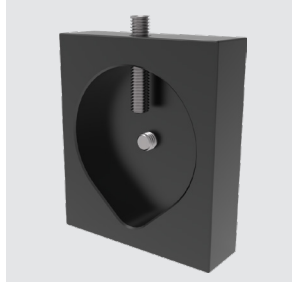
Sample holder for small round and mounted specimens (1.25-inch / 32 mm)
Catalog no. P150-707

40 mm Circular Vise



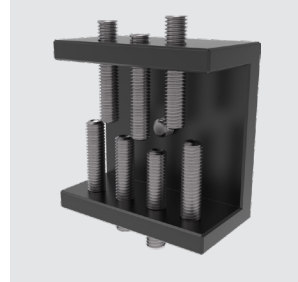
Sample holder for large round and mounted specimens (1.5-inch / 40 mm)
Catalog no. P150-708

Teardrop Vise



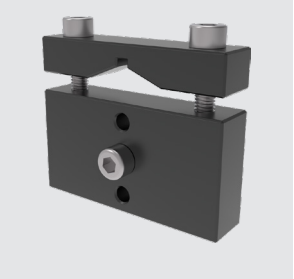
Specimen teardrop holder for 0.6-1.6-inch (18-40 mm)
Catalog no. P150-710

Irregular Sample Vise



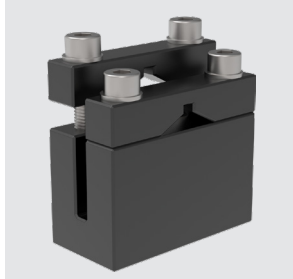
Sample vise for irregular shaped samples
Catalog no. P150-706

Single Saddle Vise



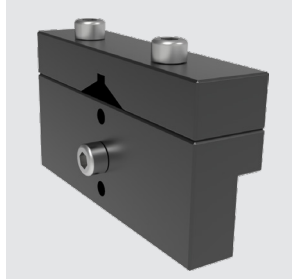
Universal specimen vise (single saddle)
Catalog no. P150-702

Double Saddle Vise



Sample holder with double parallel vise for long specimens (double saddle)
Catalog no. P150-703

Large Universal Vise



Large single saddle vise with support lip
Catalog no. P150-702b

Adhering Vise



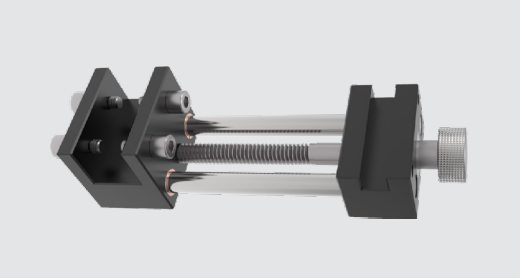
Specimen vise for adhering or gluing samples
Catalog no. P150-709

Fastener Vise



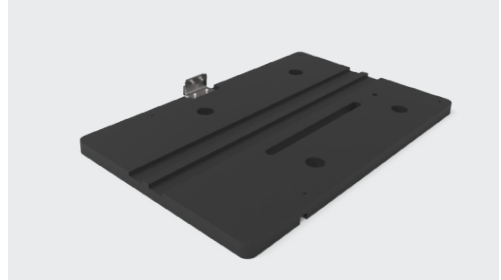
Fastener vise for longitudinal sectioning of fasteners, tubes, etc.
Catalog no. P150-711

Dressing Fixture

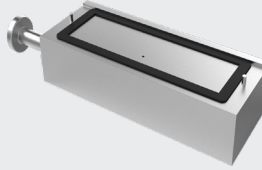
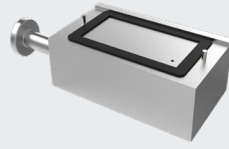


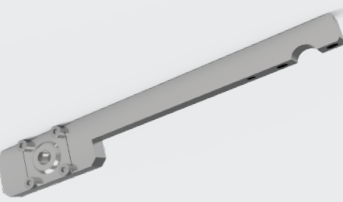
Dressing stone attachment
Catalog no. P150-701

Cutting Table

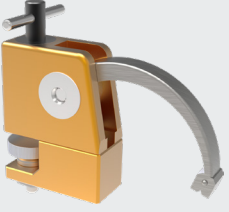
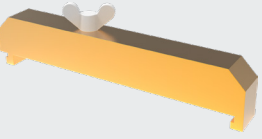


Cutting table attachment for manual cutting of flat specimens and PCB's
Catalog no. P150-601

50 mm Flanges	75 mm Flanges	100 mm Flanges	1x3-inch Glass Slide	27x46 mm Glass Slide
				
50 mm diameter arbor flanges Catalog no. P155-M-002	75 mm diameter arbor flanges Catalog no. P155-M-003	100 mm diameter arbor flanges Catalog no. P155-M-100	Vacuum glass slide holder for 1x3-inch petrographic slides Catalog no. P155-GHL	Vacuum glass slide holder for 27x46 mm petrographic slides Catalog no. P155-GHS

Sample Support Arm	Swivel Support Arm	Weight Stack
		
Sample support arm with multiple specimen vise positioning locations Catalog no. P150-407	Sample support arm with swivel for angular cutting Catalog no. P150-713	Stainless steel weight stack components: Counter balance rod Catalog no. P150-411 Counter balance weight Catalog no. P150-410 250 gram weight Catalog no. P155-M-012 300 gram weight Catalog no. P155-M-013

PICO-200 Accessories

Vertical Clamping Vise	Cutting Guide
	
PICO 200 vertical clamping vise Catalog no. P200V	PICO 200 cutting guide Catalog no. P200-ANGLE

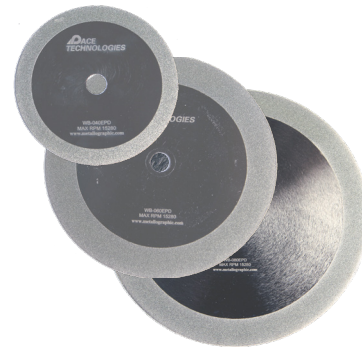
PRECISION SECTIONING CONSUMABLES



Metallographic Copper Plated Diamond Blades



Metallographic Stainless Steel Diamond Blades



Electroplated Diamond Blades

3-inch (75 mm) Diamond Blades (1/2-inch arbor, 0.006-inch thick)



PACE Product Name	Catalog Number	Qty	Price (\$)
3-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0030LC	each	310.00
3-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0035LC	each	310.00
3-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0035HC	each	310.00
3-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0035	each	310.00

4-inch (102 mm) Diamond Blades (1/2-inch arbor, 0.012-inch thick)



PACE Product Name	Catalog Number	Qty	Price (\$)
4-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0040LC	each	325.00
4-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0045LC	each	325.00
4-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0045HC	each	325.00
4-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0045	each	325.00
4 x 0.024 x 0.5-inch Electroplated 120-grit Diamond Blade	WB-040EPD	each	190.00

5-inch (127 mm) Diamond Blades (1/2-inch arbor, 0.015-inch thick)



PACE Product Name	Catalog Number	Qty	Price (\$)
5-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0050LC	each	375.00
5-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0055LC	each	375.00
5-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0055HC	each	375.00
5-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0055	each	375.00
5 x 0.024 x 0.5-inch Electroplated 120-grit Diamond Blade	WB-050EPD	each	205.00

6-inch (153 mm) Diamond Blades (1/2-inch arbor, 0.020-inch thick)

PACE Product Name	Catalog Number	Qty	Price (\$)
6-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0060LC	each	465.00
6-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0065LC	each	465.00
6-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0065HC	each	465.00
6-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0065	each	465.00
6 x 0.032 x 0.5-inch Electroplated 120-grit Diamond Blade	WB-060EPD	each	225.00



7-inch (175 mm) Diamond Blades (1/2-inch arbor, 0.020-inch thick)

PACE Product Name	Catalog Number	Qty	Price (\$)
7-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0070LC	each	605.00
7-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0075LC	each	605.00
7-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0075HC	each	605.00
7-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0075	each	605.00
7 x 0.039 x 0.5-inch Electroplated 120-grit Diamond Blade	WB-070EPD	each	250.00



8-inch (204 mm) Diamond Blades (1/2-inch arbor, 0.024-inch thick)

PACE Product Name	Catalog Number	Qty	Price (\$)
8-inch Diamond Wafering Blade (fine-grit, low conc.)	WB-0080LC	each	620.00
8-inch Diamond Wafering Blade (medium-grit, low conc.)	WB-0085LC	each	620.00
8-inch Diamond Wafering Blade (medium-grit, high conc.)	WB-0085HC	each	620.00
8-inch CBN Wafering Blade (medium-grit, high conc.)	WCBN-0085	each	620.00
8 x 0.039 x 0.5-inch Electroplated 120-grit Diamond Blade	WB-080EPD	each	310.00



Precision Abrasive Blades (1/2-inch arbor)

PACE Product Name	Catalog Number	Qty	Price (\$)
5 x 0.040-inch SiC Abrasive Blade (non-ferrous metals)	MAX-C125	10	155.00
6 x 0.038-inch SiC Abrasive Blade (non-ferrous metals)	MAX-C150	10	155.00
6 x 0.062-inch Alumina Abrasive Blade (ferrous metals)	MAX-D150	10	155.00
7 x 0.028-inch Abrasive Blade (general purpose)	MAX-7000S	10	205.00



PRECISION SECTIONING CONSUMABLES

Wafer Cutting Accessories

WAFER CUTTING ACCESSORIES



PACE Product Name	Catalog Number	Qty	Price (\$)
DIACUT™ Dressing Stick (1/2 x 1/2 x 4-1/2-inch)	DRES-0010	each	14.50
DIACUT™ Oil-based Cutting Fluid (16 oz)	OL-3000-16	16 oz	12.50
DIACUT™ Oil-based Cutting Fluid (32 oz)	OL-3000-32	32 oz	22.50
DIACUT™ Water-based Cutting Fluid (16 oz)	WL-3000-16	16 oz	12.50
DIACUT™ Water-based Cutting Fluid (32 oz)	WL-3000-32	32 oz	22.50
DIACUT™ 2 Water-based Anti-corrosion Cutting Fluid (16 oz)	WL2-3000-16	16 oz	12.50
DIACUT™ 2 Water-based Anti-corrosion Cutting Fluid (32 oz)	WL2-3000-32	32 oz	22.50
Propylene Glycol-based Anti-Corrosion Additive (32 oz)	PCC-5000-32	32 oz	28.00

Economical Stainless Steel Diamond Wafering Blades (Best Value)

Diamond / CBN Wafering Blades with Corrosion Resistant Stainless Steel Core (1/2-inch arbor) - General Purpose Blade

PACE Product Name	Catalog Number	Qty	Price (\$)
4-inch stainless steel general purpose diamond/CBN Wafering Blade	WB-004GP	each	205.00
5-inch stainless steel general purpose diamond/CBN Wafering Blade	WB-005GP	each	235.00
6-inch stainless steel general purpose diamond/CBN Wafering Blade	WB-006GP	each	310.00
7-inch stainless steel general purpose diamond/CBN Wafering Blade	WB-007GP	each	375.00
8-inch stainless steel general purpose diamond/CBN Wafering Blade	WB-008GP	each	435.00

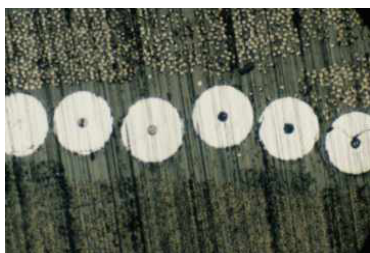


Diamond Wafering Blades (low concentration) with Corrosion Resistant Stainless Steel Core (1/2-inch arbor)

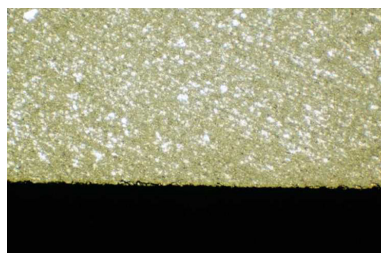
PACE Product Name	Catalog Number	Qty	Price (\$)
4-inch stainless steel low concentration diamond Wafering Blade	WB-004LCS	each	205.00
5-inch stainless steel low concentration diamond Wafering Blade	WB-005LCS	each	235.00
6-inch stainless steel low concentration diamond Wafering Blade	WB-006LCS	each	310.00
7-inch stainless steel low concentration diamond Wafering Blade	WB-007LCS	each	375.00
8-inch stainless steel low concentration diamond Wafering Blade	WB-008LCS	each	435.00

METALLOGRAPHIC WAFERING BLADES WITH STAINLESS STEEL CORE

MATERIAL	CHARACTERISTIC	SPEED (RPM)	LOAD	BLADE (grit/conc)
Silicon substrates	Soft/Brittle	<300	Low	Fine/Low
Gallium arsenide	Soft/Brittle	<200	Low	Fine/Low
Boron composites	Hard/Brittle	500	Medium	Fine/Low
Ceramic fiber composites	Hard/Brittle	1000	Medium	Fine/Low
Glass	Brittle	1000	Medium	Fine/Low
Minerals	Friable/Brittle	Maximum	High	Fine/Low
Alumina ceramic	Hard/Tough	Maximum	High	Medium/Low
Zirconia (PSZ)	Hard/Tough	Maximum	High	Medium/Low
Silicon nitride	Hard/Tough	Maximum	High	Medium/Low
Metal matrix composites	Hard/Tough	Maximum	High	Medium/High
General Purpose		Variable	Variable	Medium/High



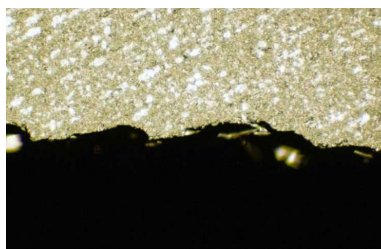
Boron-graphite composite sectioned with fine grit diamond wafering blade. Boron fibers damage minimal



Silicon edge intact after sectioning with fine grit diamond wafering blade



Boron-graphite composite sectioned with medium grit diamond wafering blade. Boron fibers damaged



Silicon edge damaged after sectioning with medium grit diamond wafering blade

TIP: Precision Wafering

1. Properly fixture or clamp the sample/specimen
2. Select the proper wafering blade and cutting fluid
3. Set the blade speed and load
4. For samples with coatings orient the sample so the coating is cut in compression
5. Dress or condition the blade periodically when the cutting rate diminishes

Diamond Wafering Blades (high concentration) with Corrosion Resistant Stainless Steel Core (1/2-inch arbor)

PACE Product Name	Catalog Number	Qty	Price (\$)
4-inch stainless steel high concentration diamond Wafering Blade	WB-004HCS	each	205.00
5-inch stainless steel high concentration diamond Wafering Blade	WB-005HCS	each	235.00
6-inch stainless steel high concentration diamond Wafering Blade	WB-006HCS	each	310.00
7-inch stainless steel high concentration diamond Wafering Blade	WB-007HCS	each	375.00
8-inch stainless steel high concentration diamond Wafering Blade	WB-008HCS	each	435.00

Improved Precision Wafering Blades:

- ◆ Stainless steel core for improved corrosion resistance
- ◆ Economical Option
- ◆ High Quality Blade
- ◆ Available with a general purpose diamond / CBN hybrid abrasive and with the traditional low and high medium grit diamond concentration