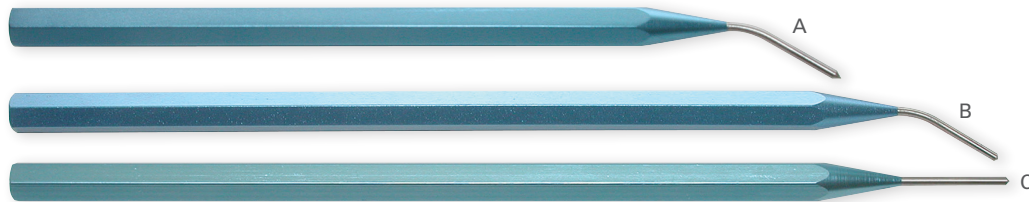


DIAMOND SCRIBES

FOR PRODUCT DETAILS AND COMPLETE SELECTIONS
www.tedpella.com



HEXAGONAL ALUMINUM HANDLES WITH POLISHED DIAMOND TIPS

These general purpose scribing tools are suited to a wide range of industrial and laboratory use. Each of these high-quality hand-held tools is equipped with a polished quality industrial diamond that is vacuum bonded to a 1.57mm (.062") dia. steel tip shaft. Scribes create fine lines in a wide range of materials, from metals to silicon to plastics to glass.

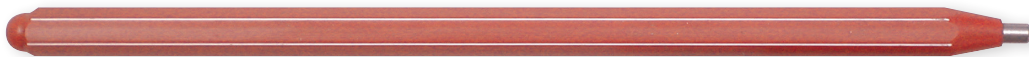
- | | | |
|-----------|---|------|
| (A) 54482 | Diamond Scribe Head Angle: 30°; Diamond Tip Included Angle: 60°; Overall Length: 11.5cm (4.5")..... | each |
| (B) 54483 | Diamond Scribe Head Angle: 30°; Diamond Tip Included Angle: 90°; Overall Length: 17cm (6.69")..... | each |
| (C) 54484 | Diamond Scribe Head Sraight; Diamond Tip Included Angle: 90°; Overall Length: 17.1cm (6.75")..... | each |



FINE POINT DIAMOND SCRIBERS

Applications include scribing under a microscope, precision scribing and repairing thin film circuits, micro circuits, small circuit boards or integrated circuits. This fine point scribe (0.005" radius) may also be used to clean or trim circuits or break or build up new lines. Overall length:120mm (4.72"); diamond has a 60° included angle. Tip shaft diameters: 0.8mm (1/16") x 8mm (5/16") long.

- | | | |
|-----------|--|------|
| (A) 54466 | Fine Point Diamond Scribe, Straight..... | each |
| (B) 54467 | Fine Point Diamond Scribe, Bent 30°..... | each |



DIAMOND SCRIBER PEN

Plastic pen-like handle with steel shaft and diamond tip. Marks glass slides, sribes metal, scores for breaking wafers, glass and glass knives. Tip included angle 90°; shaft diameter: 3.15mm (0.124"); shaft length from handle, with diamond: 5.9mm (0.232"); diamond diameter, exposed: 1.14mm (0.045"); diamond length, exposed: 0.86mm (0.034"); overall length, without cap: 155.6mm (6.125").

- | | | |
|-------|--------------------------|------|
| 64463 | Diamond Scribe Pen | each |
|-------|--------------------------|------|



HIGH PRECISION DIAMOND SCRIBING TOOLS

These professional scribing tools are used in the electronic industry for scribing of delicate components or any other scribing tasks calling for precision work. All scribing tools have hardness-oriented, quality, industrial diamonds for outstanding performance. A 60° included angle is standard. All tools are available in straight or bent tip configuration. Many more tips available.

- | | | |
|-----------|---|------|
| (A) 54411 | Tool Handle, 4.75" (120mm) Long, Lightweight, Anodized Aluminum | each |
| (B) 54412 | Straight Tip Scribe, 0.50mm (0.020") Diameter by 1.5mm (0.060") Tip Length | each |
| (C) 54413 | Bent Tip Scribe, 0.50mm (0.020") Diameter by 1.5mm (0.060") Tip Length | each |
| (D) 54418 | Straight Heavy Duty Tip Scribe, 0.84mm (0.033") Diameter by 3.18mm (0.125") Tip Length..... | each |



DELUXE DIAMOND SCRIBING PEN

High-quality precision diamond scribing tool in a durable chromium pen housing. Screw-type precision mechanism works smoothly and diamond mounting (quality industrial diamond tip) is firmly affixed when exposed; no wobble. Twist-type barrel exposes or retracts diamond tip. Refills available. Diamond is ground and lapped to a 60° included angle. Overall length: 133mm; weight: 26 grams.

- | | | |
|-------|----------------------------------|------|
| 54468 | Deluxe Diamond Scribing Pen..... | each |
| 54469 | Diamond Refillt | each |

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 Microscopy Products for Science and Industry

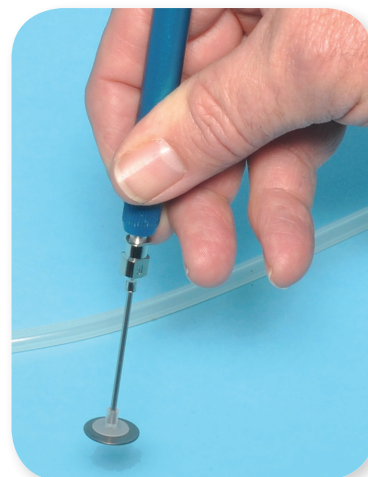
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VACUUM PICK-UP PENS

FOR PRODUCT DETAILS AND COMPLETE SELECTIONS

www.tedpella.com

Handle and Transfer Grids and Wafers Without the Use of Tweezers



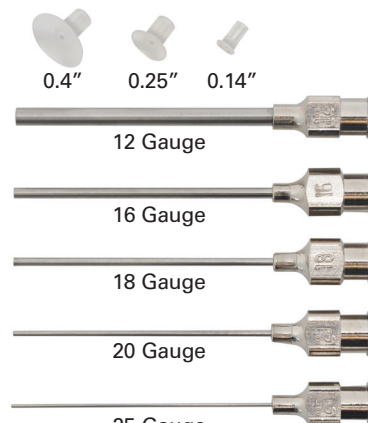
Easy Finger Control for Pick-Up or Release of Delicate Lightweight Materials

PELCO® VACUUM PICK-UP SYSTEM WITH PUMP

Use this system for picking up delicate lightweight material with finger controlled vacuum. Attach various hollow needle tips (five with system) or rubber cups (three with system) onto the pick-up pen.

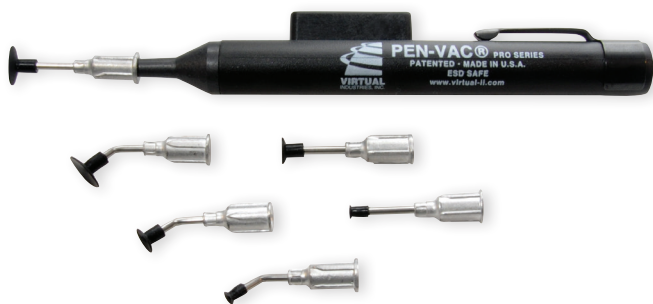
PELCO® Vacuum Pick-Up System includes: pump, finger control pen, five interchangeable needle tips (12, 16, 18, 20 and 25 gauge), three each clear silicon rubber vacuum cups (0.25", 0.14" and 0.4"), in-line filter and hose. Needle tips' length is 39mm (1.53").

- Use easy finger control for picking up or releasing.
- Not for wet or corrosive materials.
- Comes with an on/off switch on top of cabinet.
- Vacuum spec of 8" Hg. This equates to a suction force of 2.75/mm2.
- Pen-Vac® probes are interchangeable with PELCO® Vacuum Pick-Up probes.



Vacuum Tips & Cups

520-1	PELCO® Vacuum Pick-Up System, 110V	each
520-1-220	PELCO® Vacuum Pick-Up System, 220V	each



ESD SAFE PLASTIC BODY PEN-VAC® VACUUM PICK-UP TOOL WITH 6 ESD SAFE PROBES & CUPS

Self-contained vacuum needs no power supply or batteries yet lifts up to 50 gram items with flat surfaces. Vacuum is generated by pressing and releasing the vacuum push bar. Pocket-fitting, weighs less than 15g (~1/2oz.) Pen length with probe is 152mm. Black plastic ESD safe body.

Comes with 6 vacuum probes that are 1/2" long (not counting the connector), three angled and three straight. Black, ESD safe Buna-N cups, two each of 3.2, 6.4 and 9.5mm (1/8", 1/4" and 3/8").

528-2	Pen-Vac® Complete with 6 Probes and Cups	each
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