

PCID v. competitor comparison											
13-Feb.-15											
Item	Cole PCID	ARTAS	Neograft	Harris SAFE	Feller	Ellis	Alphagraft	Ertip	LeadM	mPCID	Vortex
<b>Main system items</b>	Control box, handpiece, touch screen	Controller, chair with robotic arm, computer.	Controller, vacuum pump	Controller, handpiece	Handpiece	Control box, handpiece	Handpiece, charger	Controller, handpiece (Six different versions)	Controller, handpiece	Control box, handpiece	attery Handpiece
<b>Power</b>	Electric	Electric	Electric, Suction	Electric	Battery powered	Electric	Battery	Electric	Electric	Battery	Battery
<b>Software</b>	Yes, Low risk,	Complex, 3-D mapping site for both donor extraction and recipient insertion	Present	No	No	No	No	No	Translated from Google to store and manage mosquito equation (Handpiece program).	Yes	No
<b>Foot switch</b>	Wired foot switch, Wireless foot switch	Wired foot switch	Wired foot switch	No	No	Wired foot switch	No	Wired foot switch for five of the six versions	Wired foot switch	Wired foot switch	Wired foot switch
<b>Overall size and weight</b>	Desktop	Stationary	Stationary	Desktop	Handheld	Desktop	Portable	Desktop	Desktop	Desktop	Portable
<b>Parameters</b>	1-7,000 RPM rotary constant and <b>rotary ramp</b> (1-7,000 RPM in some models), 4-3,500 CPM oscillate constant and <b>oscillate ramp</b> (angle dependent), angle 5 to 540 deg , <b>Rotoscillate</b> (rotary followed by oscillate ramp).	Rotary only, speed range not given.	Rotary only. Speed range not given.	Rotary. Speed range not given.	Oscillating (Not listed on website)	Rotary and oscillate. Speeds not given	Not listed	Rotary, rotates clockwise or counterclockwise	Oscillate. Speed 1 to 8 rev/sec, angle 90 to 540 deg	500-4,000 RPM rotary constant and <b>rotary ramp</b> (250 RPM increments) , 500-3,500 CPM Oscillate constant and <b>oscillate ramp</b> (250 CPM increments) at angle 90 to 540 degrees (angle dependent, 90 degree increments), <b>Rotoscillate</b> (rotary followed by oscillate).	Rotary, rotates clockwise or counterclockwise. Max speed: 25,000 RPM
<b>Other comments</b>	Legible display, Graft counter, Depth stop, Quick connect to switch handpieces, safe handpiece holder	Takes up office space for use. Operated by remote control from doctor and/or computer from surgical tech.	Medicamat. Suction used for vacuuming hair follicles.			Contra Angle handpiece included (Holds 0.5 mm - 1.3 mm punches)		25,000 RPM is rechargeable, 30,000 RPM had speed indicator on it.	Manufactured in South Korea, two handpieces	Graft counter, Depth stop, Quick connect to switch handpieces, safe handpiece holder	Digital speed indicator (shown in 1,000 RPMs), Depth stop, portable, holder for both controller and handpiece
<b>Punches</b>	<b>Shank:</b> 2.35 mm/ .092 in <b>Cutting diameter:</b> 0.75 - 1.35 mm, <b>Type:</b> regular and serrated.	Custom	Cutting diameter: 0.8 - 1.4 mm. Type not given.	Not listed	Cutting diameter: 0.9 mm, 1.00 mm regular	Cutting diameter: 0.75 mm - 1.25 mm regular (Ellis)	Not listed	Cutting diameter: 0.6 mm - 1.0 mm, 1.3 mm rounded (Their measurements at inner diameter. Outer diameter from July 2014 measurements were 0.25 mm larger.)	Not listed	<b>Shank:</b> 2.33 mm/ .092 in <b>Cutting diameter:</b> 0.75 - 1.35 mm, <b>Type:</b> regular and serrated.	<b>Shank:</b> 2.35 mm/ .092 in <b>Cutting diameter:</b> 0.75 - 1.35 mm, <b>Type:</b> regular and serrated.

