

SBF-SEM Imaging Survey Results

(Responses as of October 2024)

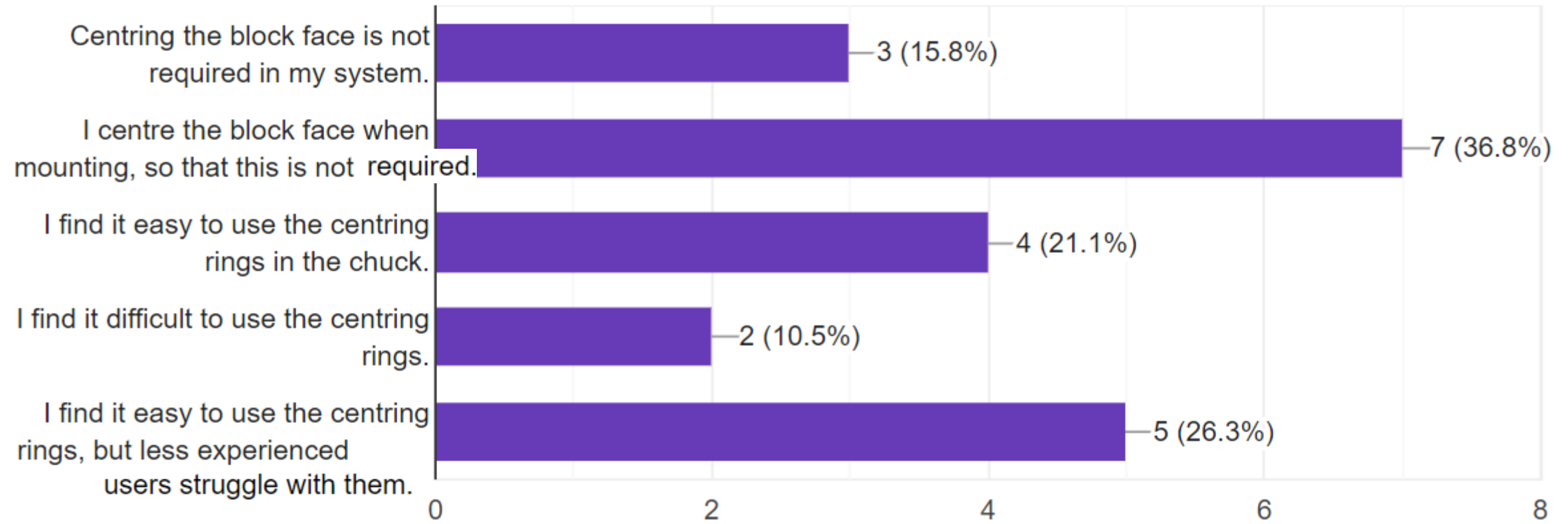
How would you describe yourself regarding SBF-SEM?

19 responses



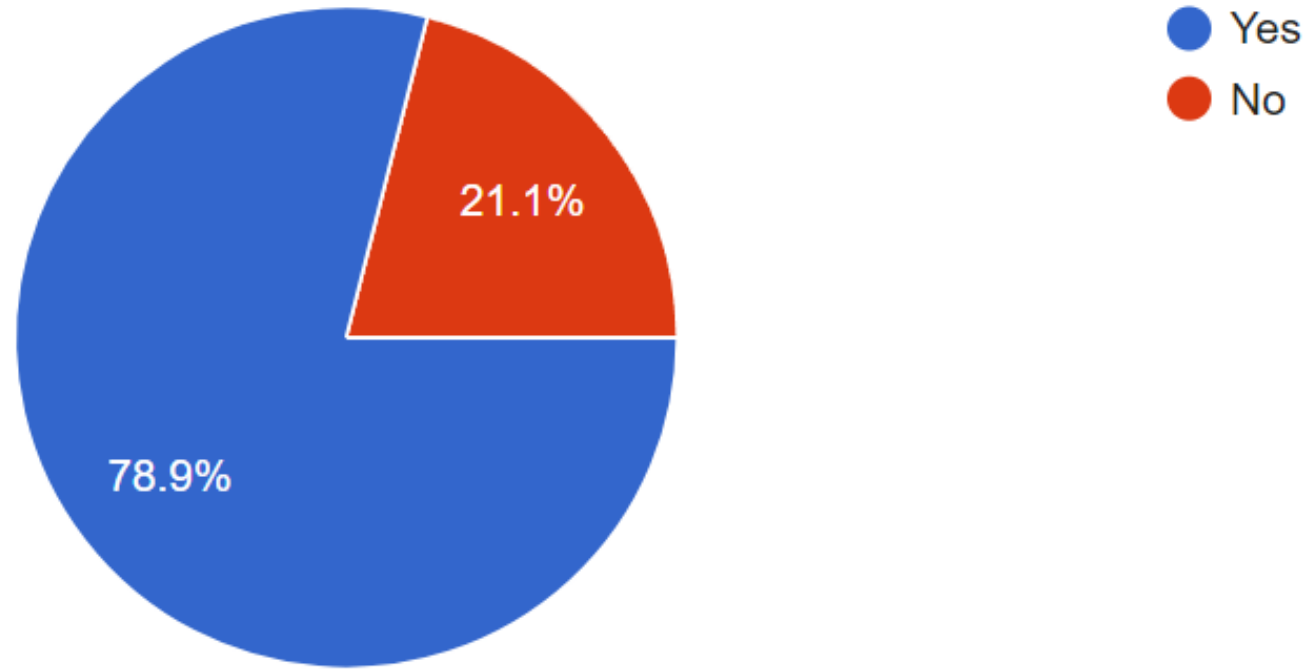
Regarding fitting the sample in the chuck and centring the block face, what option(s) below best describe your experiences:

19 responses



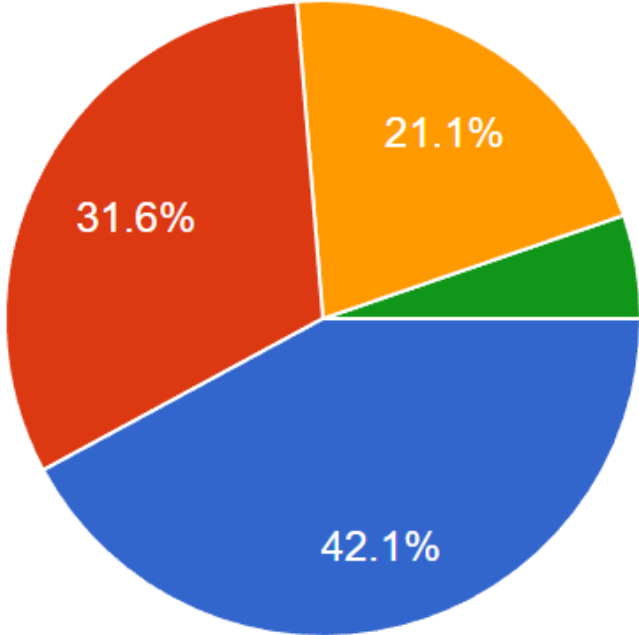
Does your system rely on some level of mechanical (i.e., non-motorized) approach?

19 responses



Regarding knife positioning / alignment / cutting window setting, how would you describe your experiences:

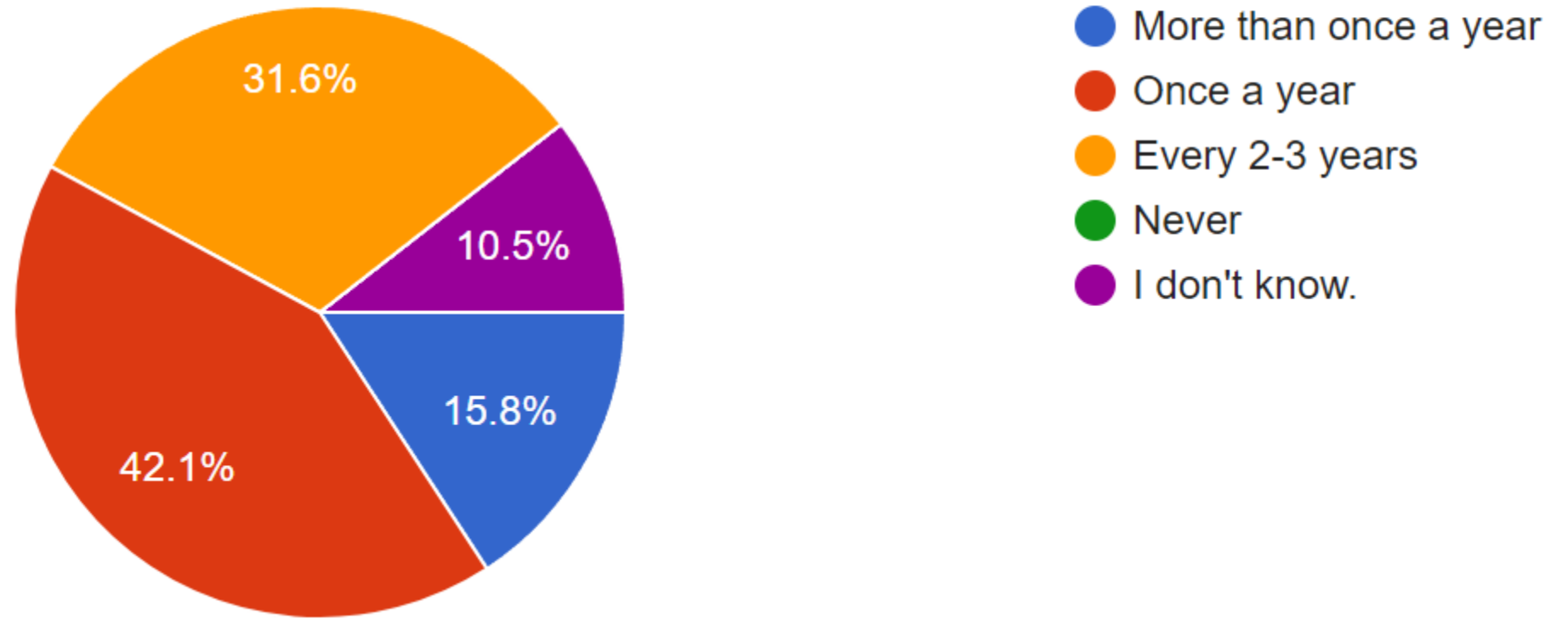
19 responses



- This is mechanical in my system and it is easy to perform.
- This is mechanical in my system, and it is somewhat tricky.
- This is motorized in my system, and it is easy to perform.
- This is motorized in my system, but it could be improved.

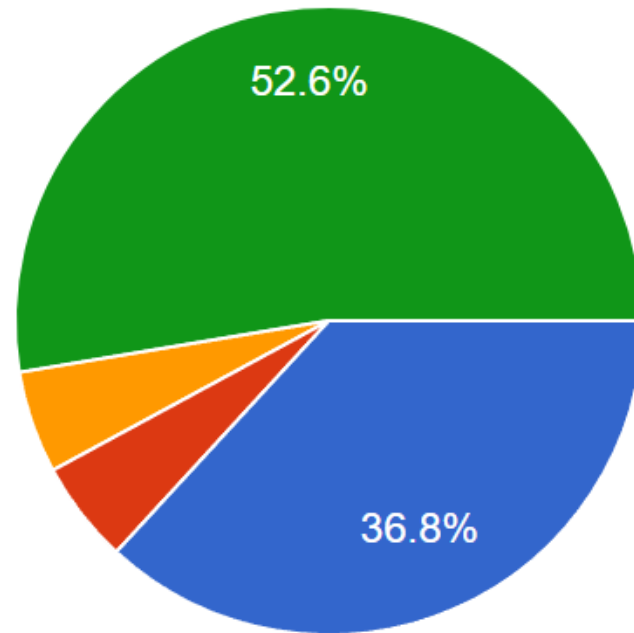
How often does the diamond knife need changing (due to the accumulation of small marks)?

19 responses



Regarding the use of focal charge compensation (FCC) or variable pressure (VP), what best describes your experiences:

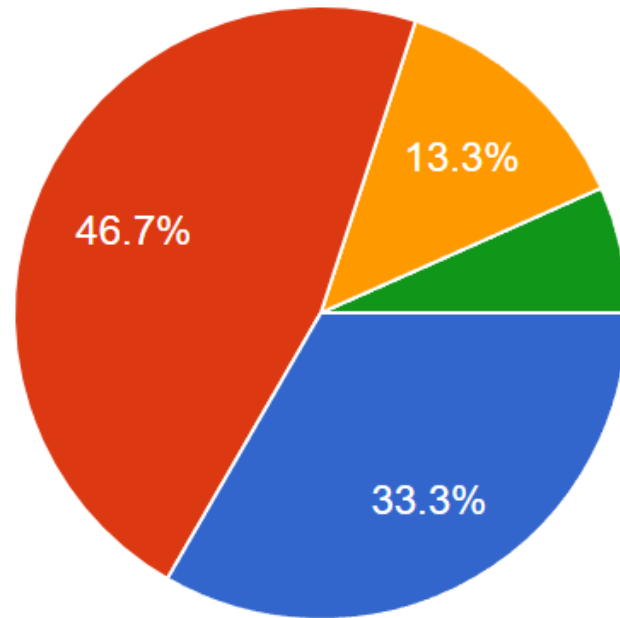
19 responses



- I use FCC all the time.
- I use FCC sometimes, but sometimes I find VP better.
- I never use FCC, as I find VP better.
- My system does not have FCC.

If your system has focal charge compensation, how would you describe your experiences with positioning the needle correctly:

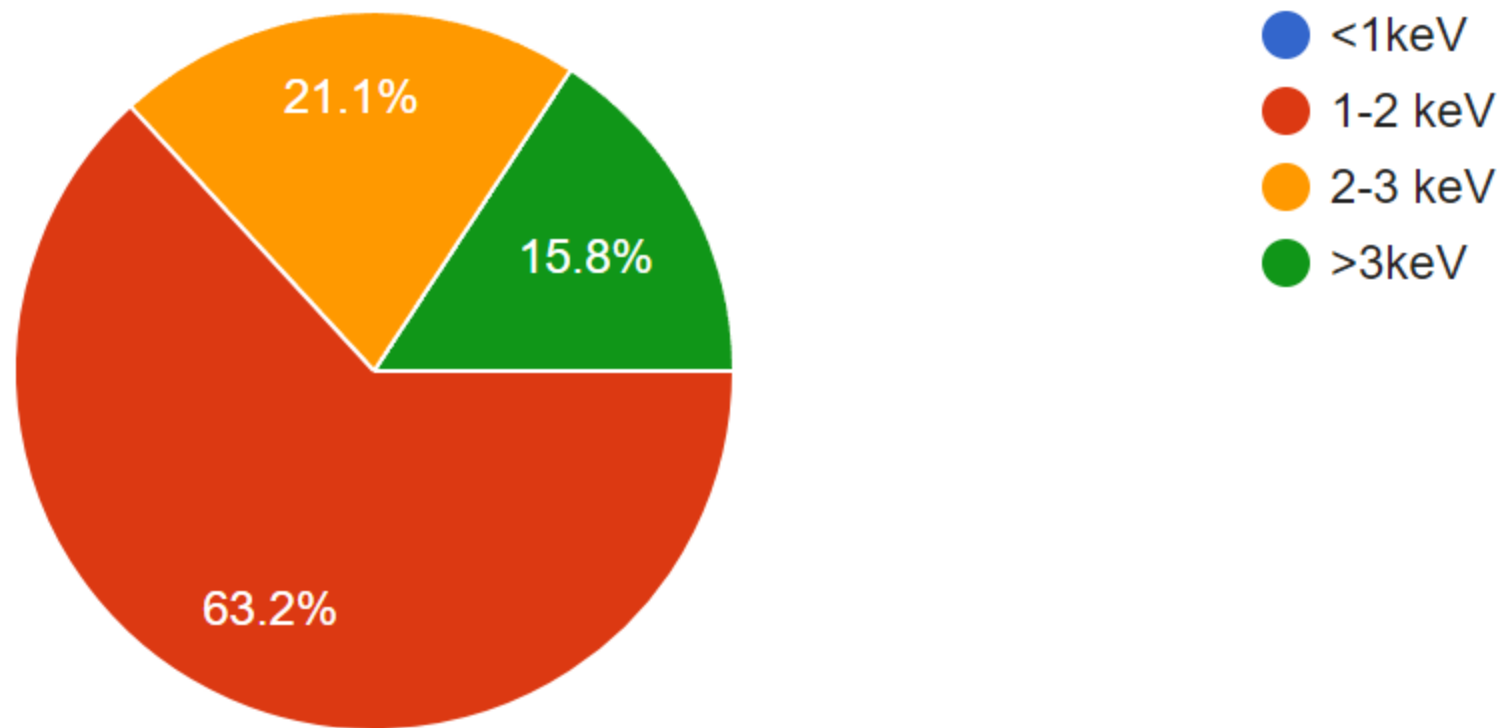
15 responses



- It is not required; it works in any position as long as the block face is roughly central in the pin.
- Correct needle positioning is difficult in my system.
- Correct needle positioning is not particularly difficult in my system.
- Correct needle positioning is easy in my system.

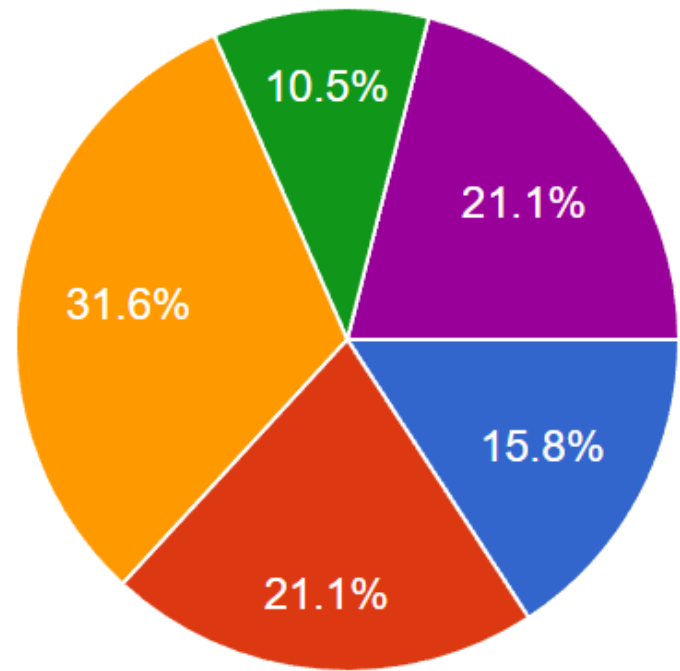
Which EHT range do you use the most?

19 responses



Which aperture size do you use the most?

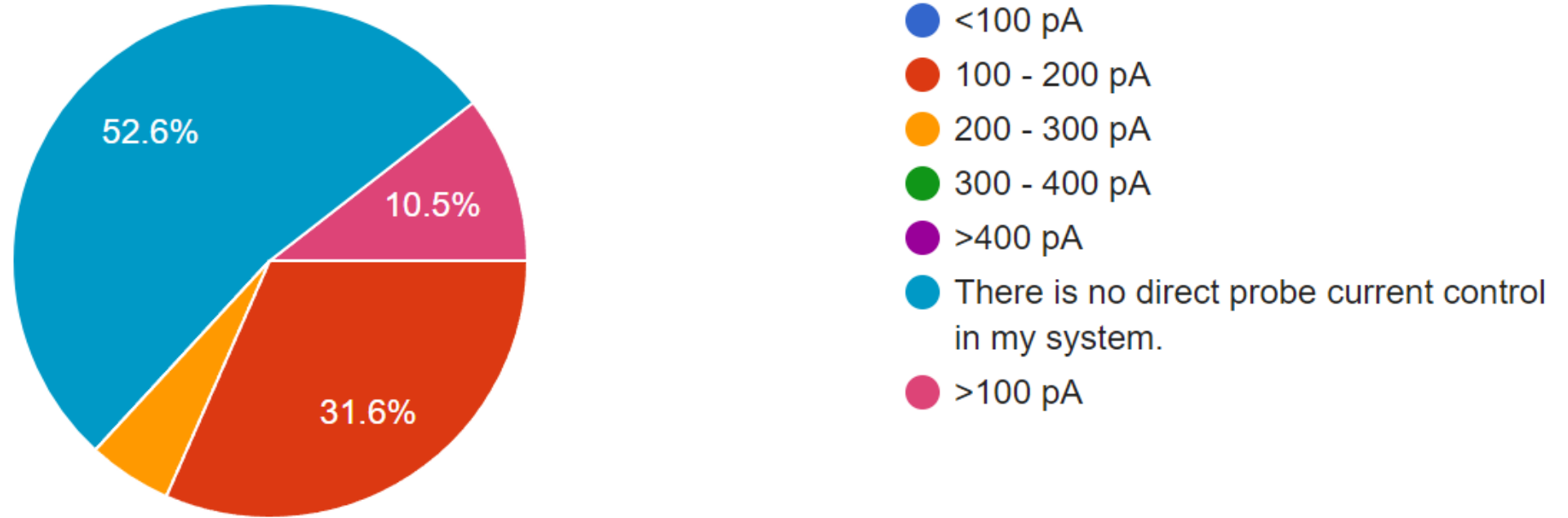
19 responses



- 10 um
- 20 um
- 30 um
- >30 um
- I don't know (apertures cannot be changed directly in my system)

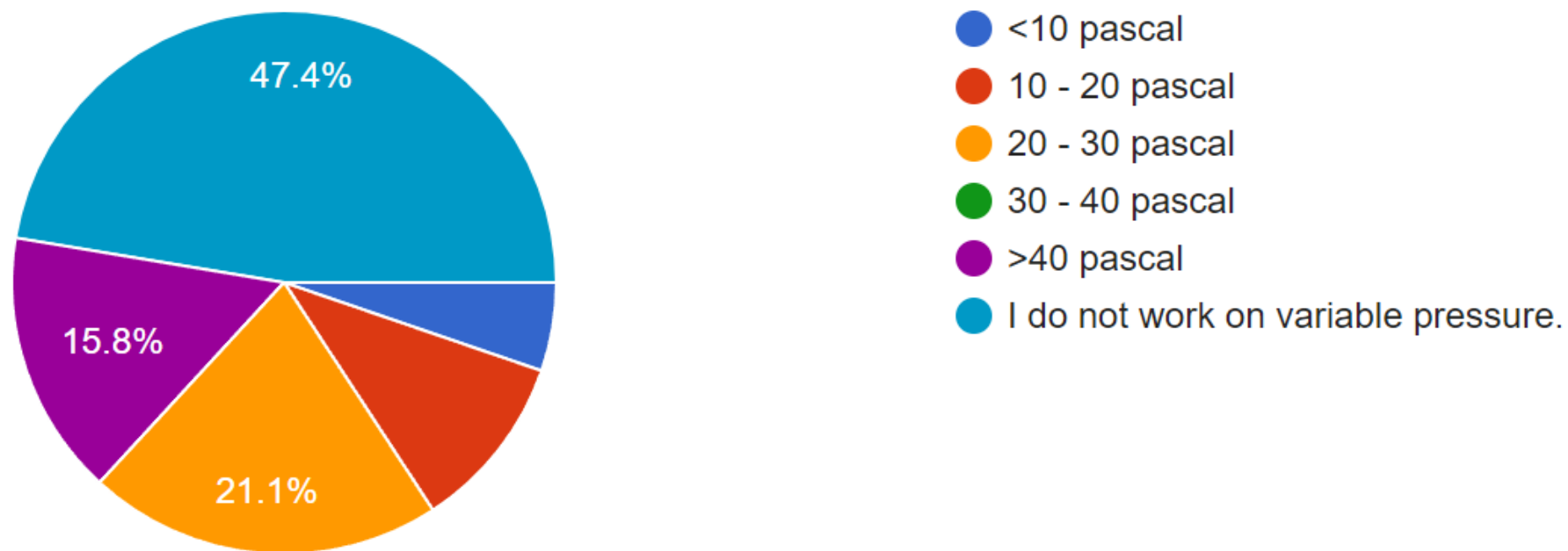
Which probe current do you use the most?

19 responses



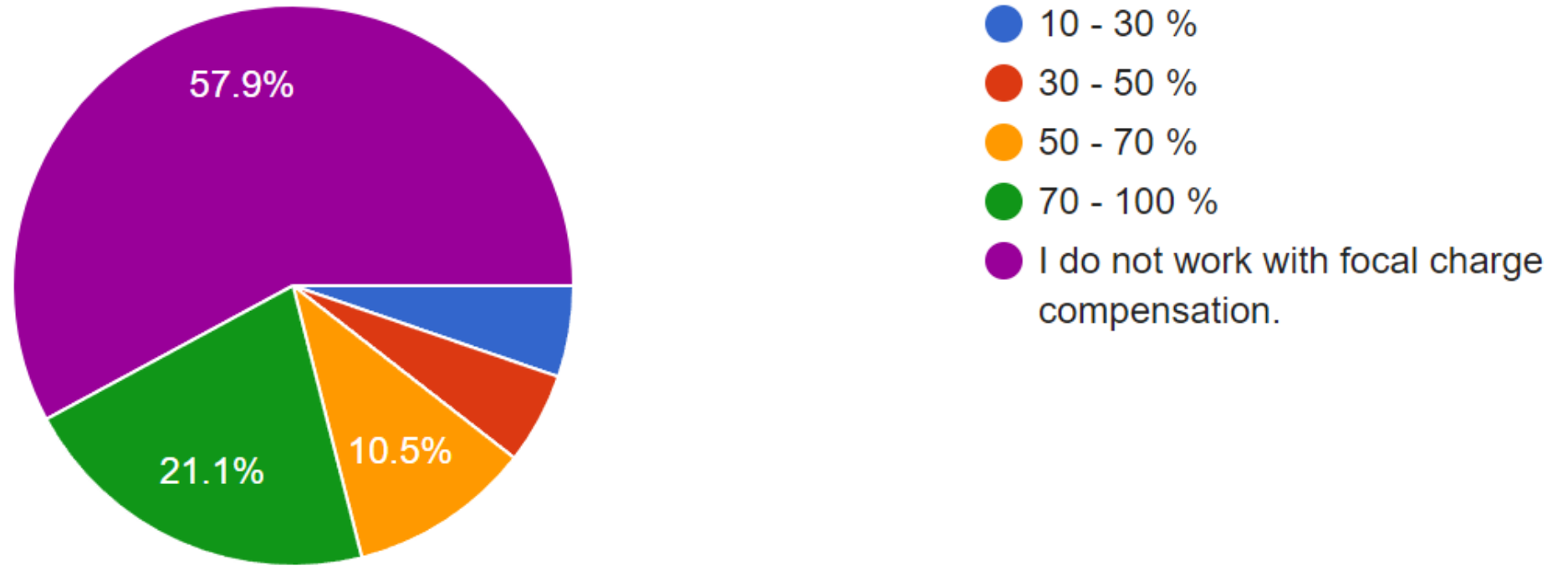
If working in variable pressure, which is your favourite chamber pressure?

19 responses



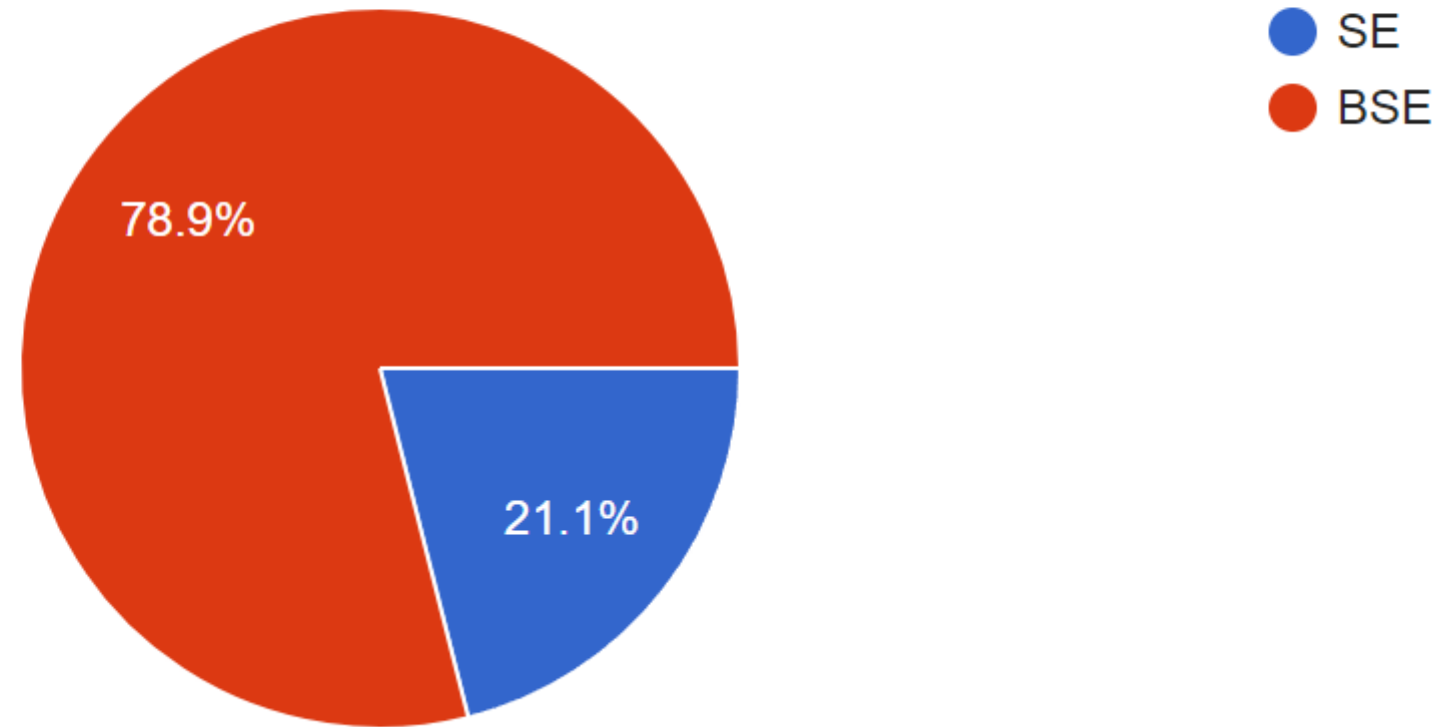
If working with focal charge compensation, what is your favourite FCC output?

19 responses



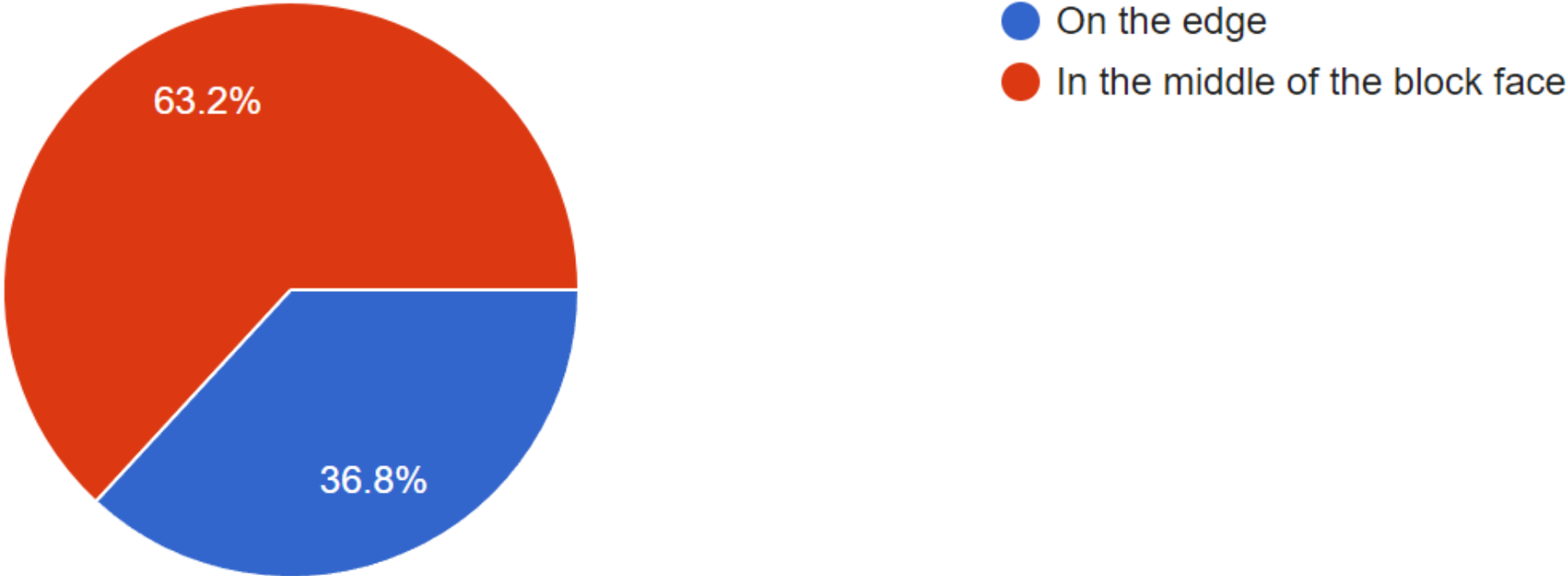
Do you adjust aperture positioning and astigmatism in SE or BSE mode?

19 responses



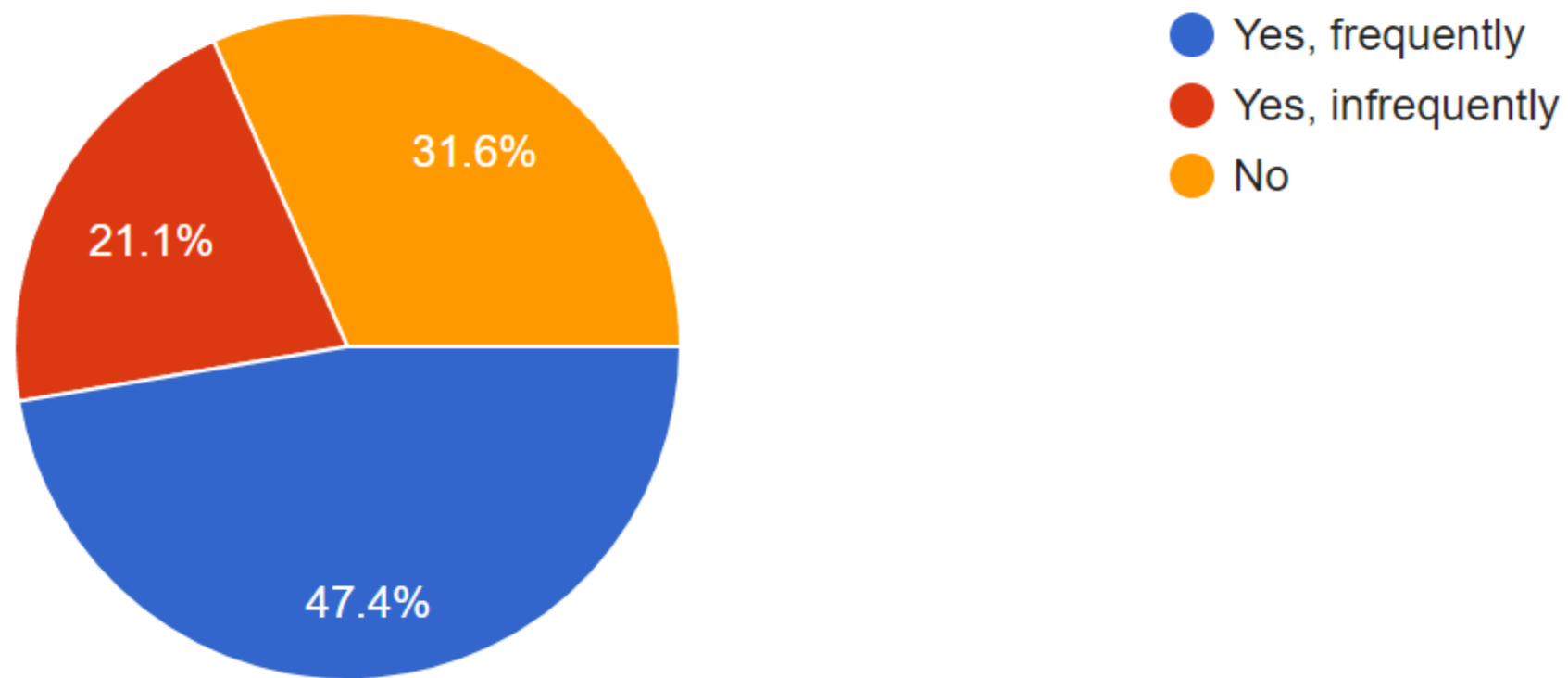
Do you adjust aperture positioning and astigmatism in the middle of the block face, or on the edge of the block?

19 responses



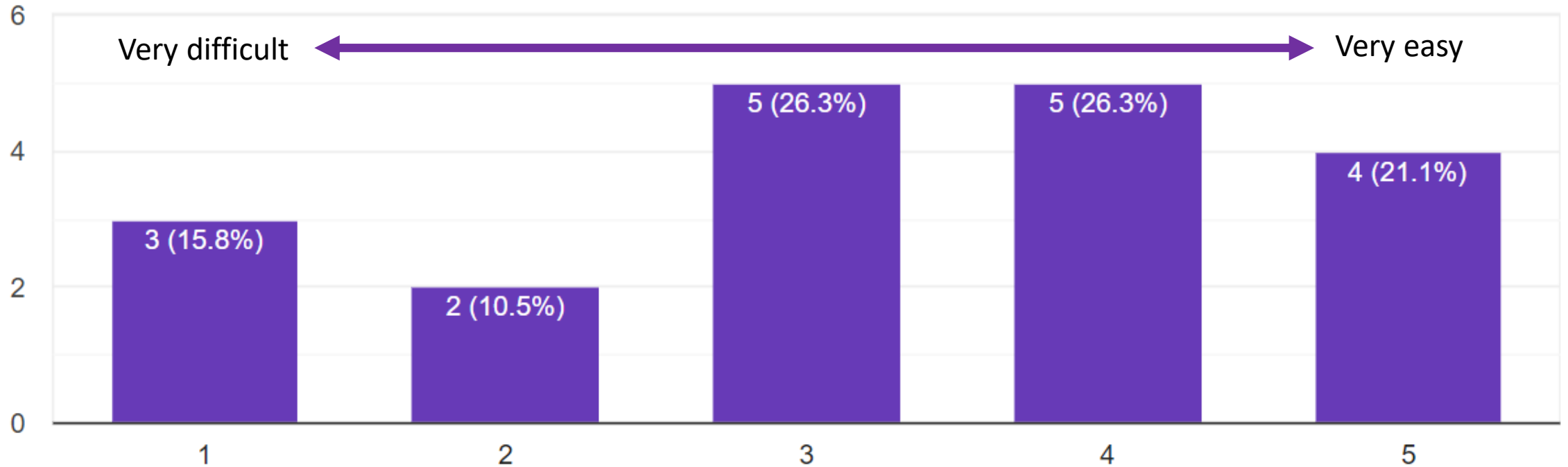
Do you use montage / multiple ROI image acquisition?

19 responses



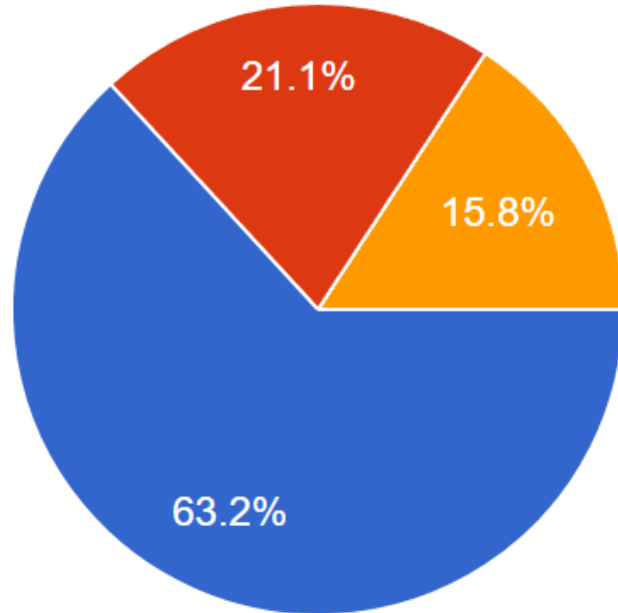
If you said YES to the previous question, how easy is it to set up montage / multiple ROI acquisition?

19 responses



How stable is focus/astigmatism during the run?

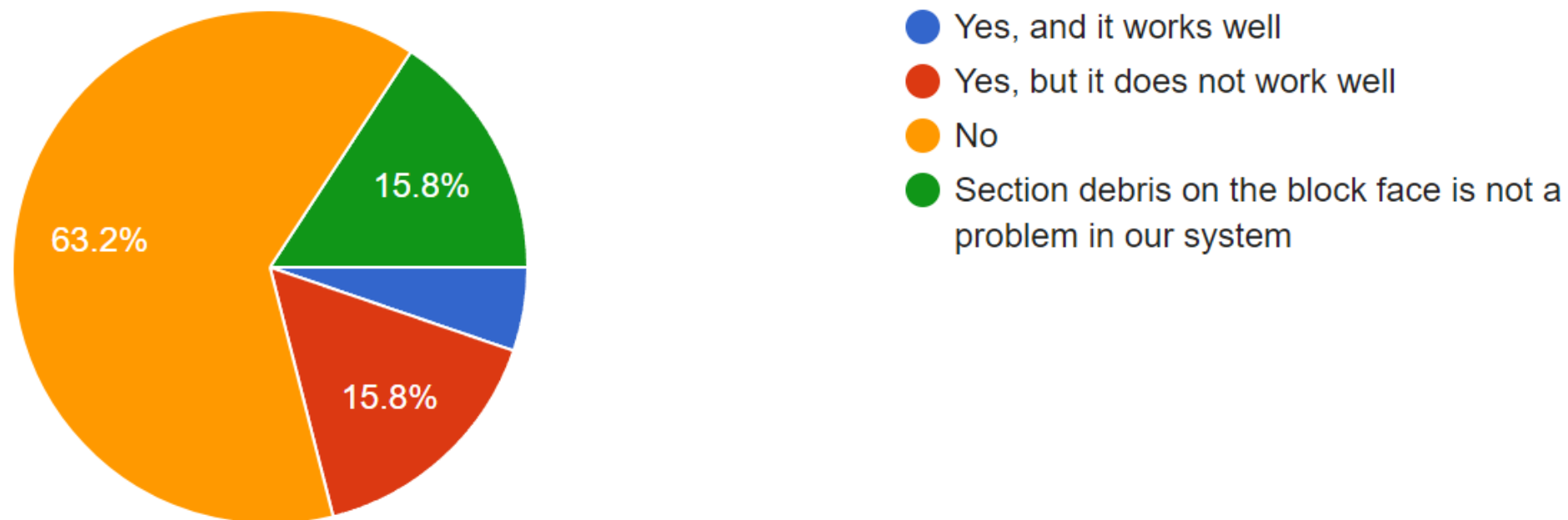
19 responses



- Stable - focus/stigmatism only needed after > 100 sections
- Not so stable - focus/stigmatism needed between 50 - 100 sections
- Unstable - focus/stigmatism needed after < 50 sections

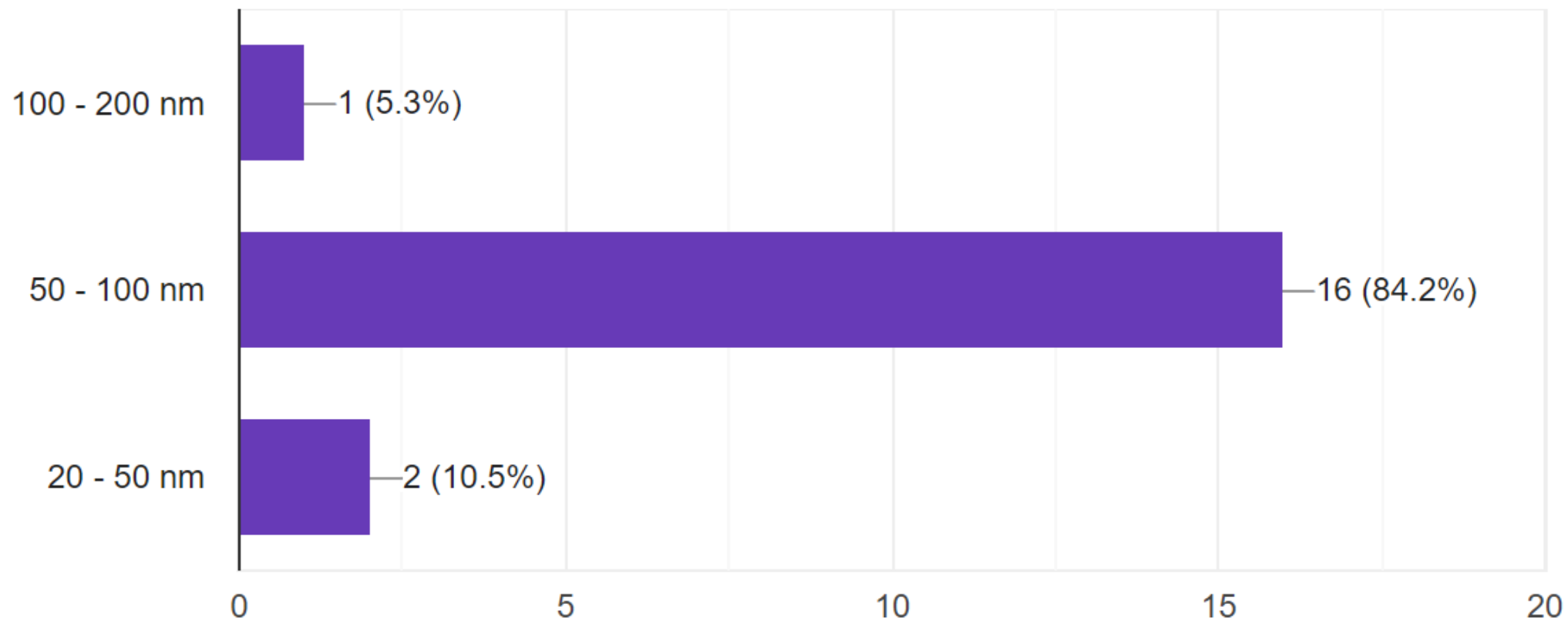
Does your system have settings to clear section debris from the block face?

19 responses



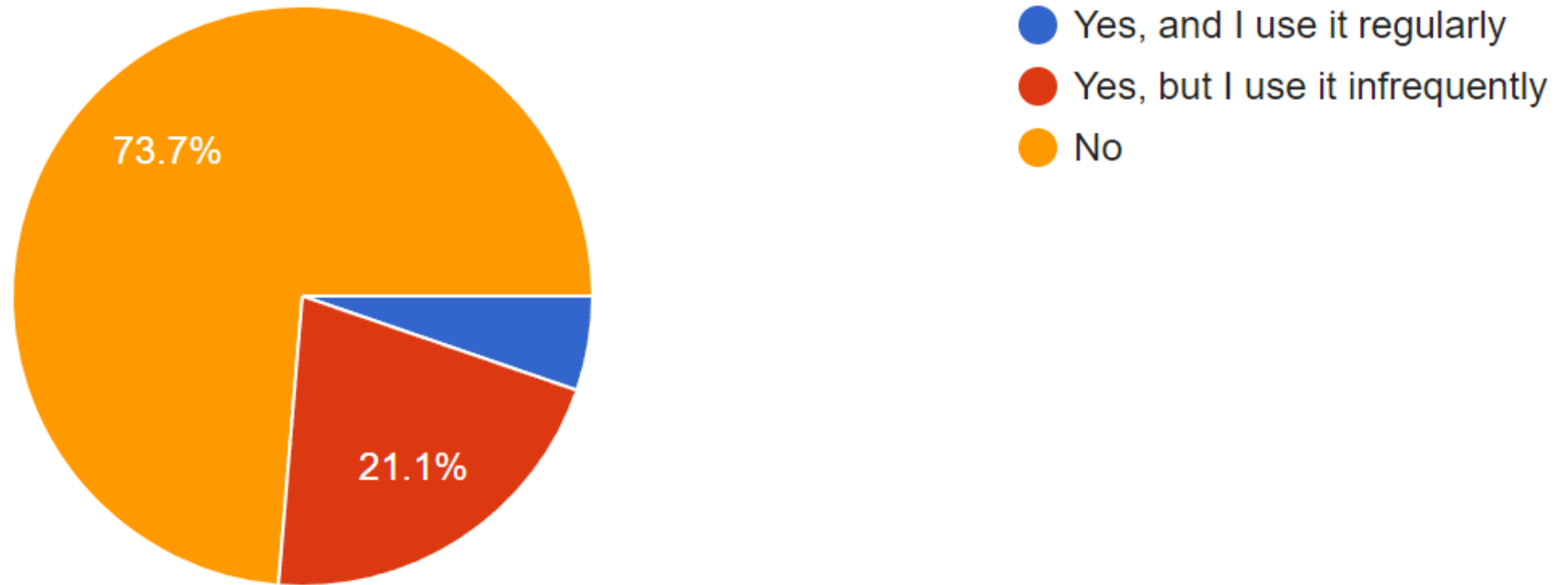
What z sectioning range do you use more often?

19 responses



1) Do you have energy deconvolution in your system and how often do you use it, if at all?

19 responses



2) Do you use knife oscillation in your system and do you feel that it improves sectioning?

19 responses

