

Application Note

Comparison of the two models of Gentle Mill

Gentle Mill (Mod. IV5)	Gentle Mill 3 (GM3 Mod. IV8)
Gas flow regulation for optimized ion source setting	
Gas flow control via a needle valve enables manual optimization of the ion source performance	Motorized needle valve control makes possible automatic, user-independent ion source setup
Setting of the milling parameters	
Manual setting of the milling parameters such as the angle of beam incidence, the speed and the oscillation angle of in-plane sample motion	Pre-programmed milling recipes for automatic setting of mechanical milling parameters (manual adjustment is also possible)
Imaging system	
CCD camera with fixed magnification in 45x and 90x steps	High-resolution color CMOS camera with manual zoom video lens of 50-400x magnification range
Termination of the milling process	
Built-in timer function for termination of the milling procedure	Optical termination of the milling process supported by an image analysis module (detecting the sample perforation or monitoring the surface topography)
Special sample holders for SEM applications	
Not available	Sample holders: for ion beam slope cutting of SEM samples for final polishing of EBSD samples