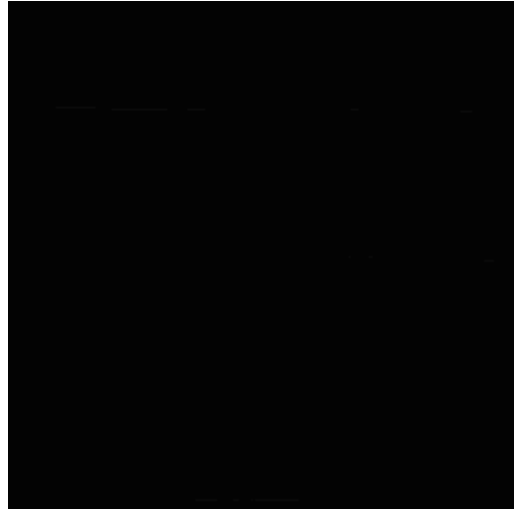


Reconstruction

For users who appreciate the importance of high-quality images to reliable quantitative analysis, SCANCO Medical systems are the first choice. Our standard acquisition and reconstruction protocols handle very large numbers of projections, with small angular separation, to deliver images with high signal-to-noise ratio and high resolution, essential characteristics for accurate, reproducible quantitative 3D analysis.

Tomographic image reconstruction is an inherently parallel operation. Reconstruction tasks are distributed automatically among all available processors in [microCT workstations](#), and run in parallel to scanning and other tasks. In microCT systems with multiple computers in a [cluster](#), reconstruction workload is spread among more processors, further reducing total time required for reconstruction of all slices in a given scan.



The table below shows the time required to reconstruct typical images sizes on a single processor.

Image size	# projections / 180°	Reconstruction time
1024 x 1024 pixels	250 (0.72° ang. incr.)	3 sec
2048 x 2048 pixels	500 (0.36° ang. incr.)	24 sec
2048 x 2048 pixels	1000 (0.18° ang. incr.)	48 sec

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