



## • The New D8 DISCOVER

### Move up to the XRD<sup>®</sup> dimension in X-ray diffraction

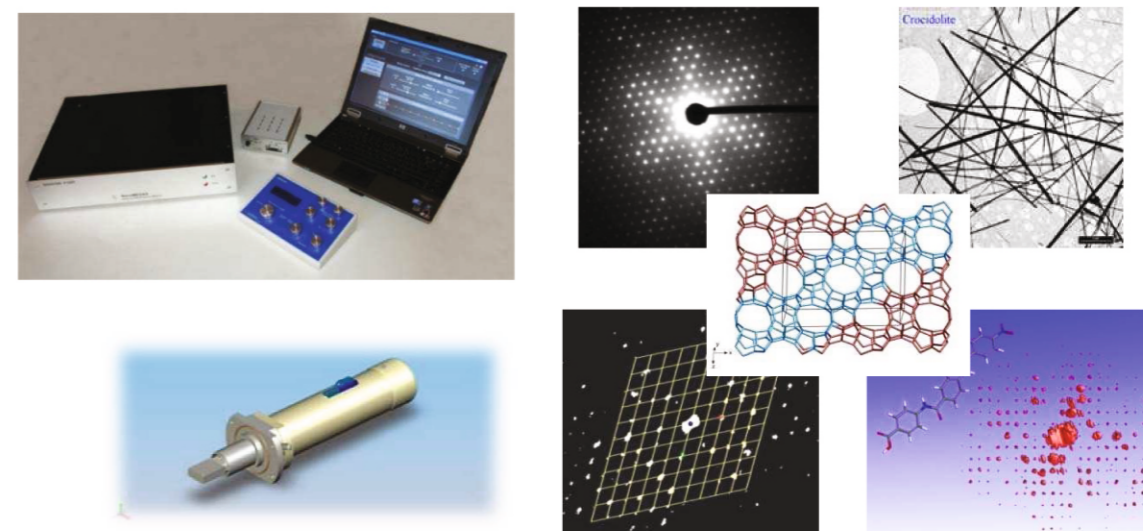
- DAVINCI.SNAP-LOCK & DAVINCI.MODE: alignment-free component change with real-time recognition
- TURBO X-RAY SOURCE: boost intensity for spot, line or micro focus applications
- TWIST-TUBE: fast and easy switching from line to spot focus
- PATHFINDER optics: motorized switching between high-resolution and high-intensity beam paths
- VÅNTEC-500: add the extra dimension of XRD<sup>®</sup>

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think forward

XRD

## Advanced TEM electron diffraction tools for nanocrystal structure determination



- the DigiSTAR digital precession unit is easily retrofit to any TEM 100- 300 KV (LaB6 /W - FEG) , alignments are stored in memory
- ab-initio structure determination of any nanostructure using exclusively electron diffraction intensities
- precession semi-angle variable from 0- 85 mrad (TEM dependent), spot distortion correction-compensation at high angles
- ab-initio structure determination for metal, minerals, ceramics, polymers, semiconductors and pharmaceuticals
- 3D cell reconstruction when used in combination with 3D diffraction tomography
- efficiently solve complex structures in combination with powder X-Ray diffraction
- easy symmetry determination for nanocrystals (space and point group)
- accurate stoichiometry refinement for nanostructures