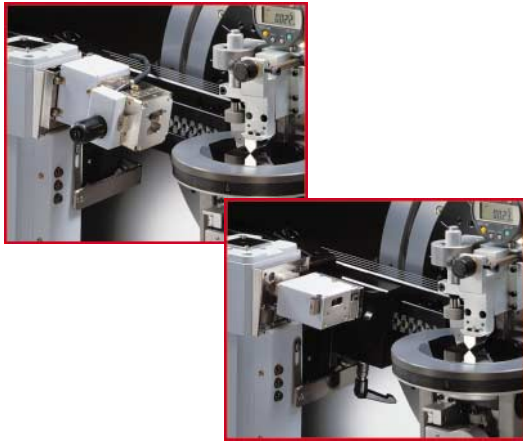


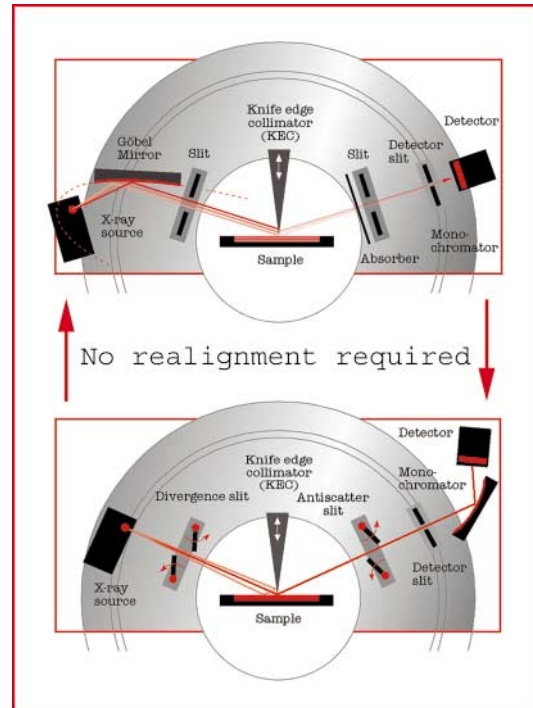
## PUSH-PLUG FOR THE D8 ADVANCE – CONVENIENCE IF DESIRED, FLEXIBILITY IF REQUIRED



The new Push-Plug Optics for the D8 ADVANCE makes the diffractionist's life easier. Push-Plug means the ability to change from Bragg-Brentano geometry to parallel beam with Göbel Mirror geometry without realignment. Change the optical component and tell the software what happened: that's all you need to do.

The convenience of the Push-Plug optics does not cost flexibility. The analytical demands on a diffraction system often increase from year to year. Therefore, it is advantageous if a system is flexible enough to allow for extensions or re-assemblies to accommodate upcoming new requirements. The D8 family offers this flexibility by being equipped with high-precision dovetail tracks for free positioning of various x-ray sources, optical components and detectors. The D8 goniometer also offers the ability to be converted from Theta/2Theta geometry to Theta/Theta on-site. Furthermore, the D8 DISCOVER's Universal Beam Concept UBC with its line-focus x-ray source and Göbel Mirror optics offers the conversion from line to spot focus applications by inserting collimators. Alignment is not required.

If the application changes and new analytical requirements show up, the D8 ADVANCE can be rearranged to D8 DISCOVER UBC optics set



up - and vice versa. Furthermore, existing D8 ADVANCE systems can be upgraded to Push-Plug optics in the field.

The flexible D8 family offers both: the Push-Plug optics for easy and convenient XRD operation and the UBC optics for advanced material research XRD applications.

- Push-Plug for quick geometry change without re-alignment
- Push-Plug for Bragg-Brentano and Parallel Beam geometry for convenient XRD operation
- Push-Plug upgrade ability for existing D8 ADVANCE systems

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## THE NEW 4-POSITION ABSORBER – SET AND FORGET

The D8 UBC source provides more than  $10^9$  cps primary intensity flux for x-ray diffraction and reflection experiments. The newly-introduced 4-position rotary absorber is the device which allows the user to routinely and conveniently get the most out of all 9 decades of this dynamic range. Motorized and completely integrated in the new DIFFRAC<sup>plus</sup> software, the rotary absorber is especially useful for measurements exceeding a dynamic range of  $10^6$  cps and higher. The user configures two intensity levels for absorber actions - DIFFRAC<sup>plus</sup> takes care of the implementation of the appropriate absorption factor. Set the levels once and execute measurements with a linear data acquisition up to  $10^9$  cps.



The advantages at a glance:

- easy-to-use due to completely DIFFRAC<sup>plus</sup> integrated operation
- exceeds linear x-ray detection range up to  $10^9$  cps due to automated operation
- enables completely automated XRR and HRXRD alignment and measurement procedures

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