

Type: ball

High Density Carbon Tip



Type: **ball** - for applications that require hard contact between tip and sample

This SPM probe offers a hemispherical, symmetric and extremely smooth hard tip side coating. This coating, made of EBD diamond like carbon, features extremely high wear resistance. The macroscopic tip radius of curvature is precise to +/- 5 nm of the nominal value.

The probe offers unique features:

- EBD, high dense carbon tip
- hydrophobic surface properties
- clean, smooth surface
- reliable and precise tip dimensions
- SEM certificate for every tip
- high mechanical Q-factor of cantilever for high sensitivity
- no tip artifacts due to nanoroughness



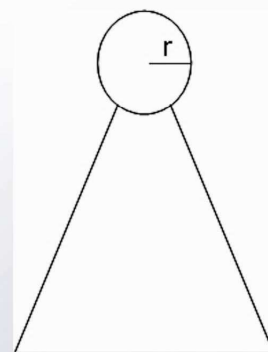
Technical Data

	B1 (r: 10-25 nm)	B2 (r: 30-50 nm)	B50 (r: 50 nm +/- 10 %)	B100 (r: 100 nm +/- 10 %)	B150 (r: 150 nm +/- 10 %)
NCHR l: 125 µm w: 30 µm t: 4 µm k: 42 N/m f: 320 kHz	B1_NCHR	B2_NCHR	B50_NCHR	B100_NCHR	B150_NCHR
FMR l: 225 µm w: 28 µm t: 3 µm k: 2.8 N/m f: 75 kHz	B1_FMR	B2_FMR	B50_FMR	B100_FMR	B150_FMR
CONTR l: 450 µm w: 50 µm t: 2 µm k: 0.2 N/m f: 13 kHz	B1_CONTR	B2_CONTR	B50_CONTR	B100_CONTR	B150_NCHR

Tip shape: hemispherical
Coating: Tip side: none Back side: 30 nm Al reflex

First in Quality

A 100% quality check by SEM for every tip, high scan speeds, flexibility in combination with stiffness and a hydrophobic nature are key parameters. Datasheet for every tip with precise tip dimensions provided. **nanotools®** is the first and only probe manufacturer being quality certified to ISO 9001.



For more information please contact: info@nano-tools.com
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