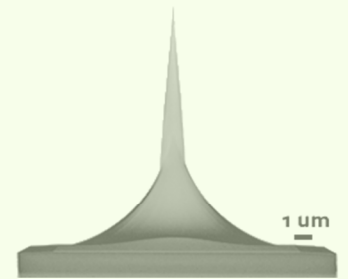
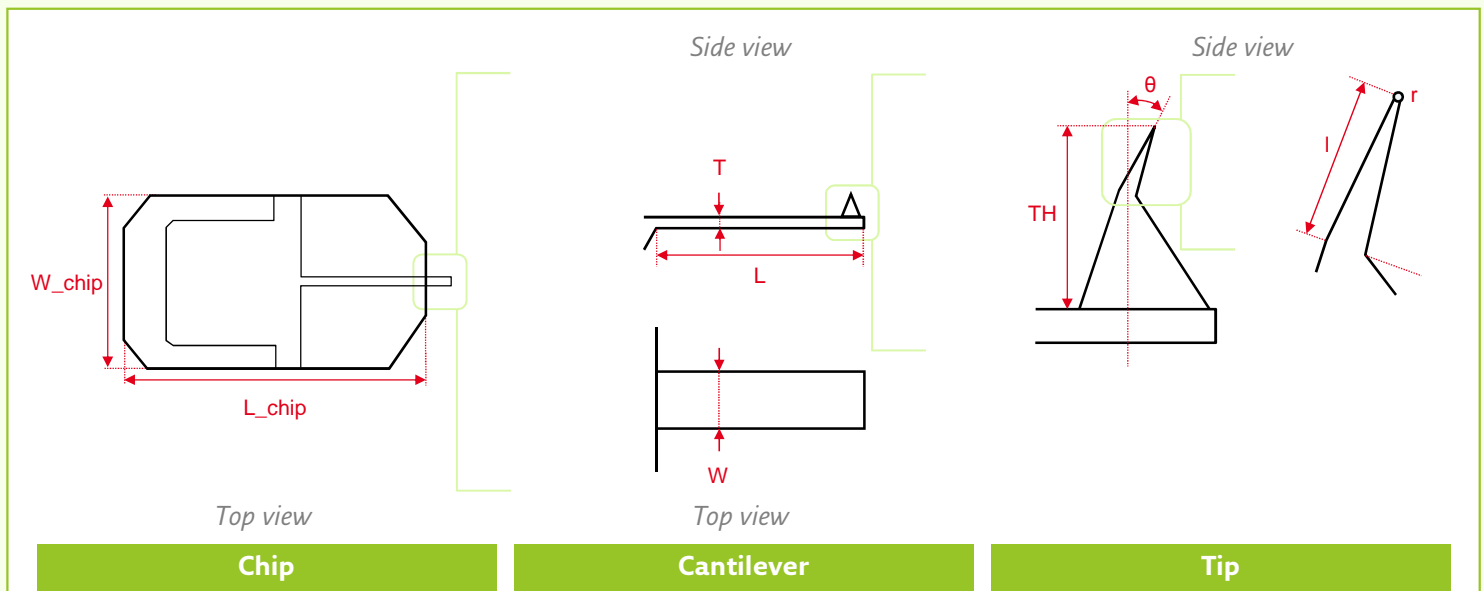


	biotool cell	biotool high resolution	biotool cell XXL
<b>Part number</b>	NT_biotool_v0010	NT_biotool_v0020	NT_biotool_v0030
<b>Tip</b>			
Length / l	n/a	200 nm	15 $\mu\text{m}$
Sharpness / r	25 nm	2 nm	25 nm
Tilt compensation / $\theta$	n/a	12°	12°
Total tip height / TH	7 $\mu\text{m}$	7 $\mu\text{m}$	15 $\mu\text{m}$
<b>Cantilever</b>			
Material	Quartz	Quartz	Quartz
Shape	qp-bioAC	qp-bioAC	qp-bioAC
Length / L	60 $\mu\text{m}$	60 $\mu\text{m}$	60 $\mu\text{m}$
Width / W	25 $\mu\text{m}$	25 $\mu\text{m}$	25 $\mu\text{m}$
Thickness / T	0.4 $\mu\text{m}$	0.4 $\mu\text{m}$	0.4 $\mu\text{m}$
Force constant / k	0.1 N/m	0.1 N/m	0.1 N/m
Resonance frequency / f	50 kHz	50 kHz	50 kHz
Tip side coating	none	none	none
Back side coating	Gold reflex	Gold reflex	Gold reflex
<b>Chip</b>			
Length / L_chip	3400 $\mu\text{m}$	3400 $\mu\text{m}$	3400 $\mu\text{m}$
Width / W_chip	1600 $\mu\text{m}$	1600 $\mu\text{m}$	1600 $\mu\text{m}$
Thickness / T_chip	315 $\mu\text{m}$	315 $\mu\text{m}$	315 $\mu\text{m}$
Alignment grooves	yes	yes	yes

- Up to 15  $\mu\text{m}$  carbon
- Gentle 50 nm tip apex
- Soft cantilever



n/a: specification not applicable for this product | Values for resonance frequency and force constant are calculated from the (measured) cantilever geometry.



For more information, visit  
[www.nanotools.com](http://www.nanotools.com)

nanotools GmbH  
 Reichenbachstraße 33  
 D-80469 Munich  
 Phone +49 (0)89 12 11 38-0  
[info@nanotools.com](mailto:info@nanotools.com)



Serving the semiconductor industry  
 since 1997



ISO 9001 certified quality