

## Technical Specifications

3D Metrology																						
Product		Tip								Cantilever						Coating		Chip				
Order code	Material	Tip vertical edge height /VEH	Tip eff. length /l	Tip total width /d	Tip overhang /OH	Tip edge radius /r	Tilt comp. /θ	Pyramid height	Tip set back	Material	Shape	Length /L	Width /W	Thick-ness /T	Force Const. /k	Res.Freq. /f	Tip side	Back side	Length /L_chip	Width /B_chip	Thickness /D_chip	Alignment grooves
<b>CDR130-EBD</b> 130nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR130_NCHR_3	<b>HDC/DLC</b>	10 nm	300 nm	130	30 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(250-350 nm)	(+ 5 nm)	(20-35 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						
<b>CDR70-EBD</b> 70nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR70_NCHR_3	<b>HDC/DLC</b>	10 nm	300 nm	70 nm	10 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(250-350 nm)	(+ 5 nm)	(5-10 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						
<b>CDR50-EBD</b> 50nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR50_NCHR_3	<b>HDC/DLC</b>	10 nm	200 nm	50 nm	10 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(200-250 nm)	(+ 5 nm)	(5-10 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						
<b>CDR40-EBD</b> 40nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR40_NCHR_3	<b>HDC/DLC</b>	10 nm	150 nm	40 nm	10 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(150-200 nm)	(+ 5 nm)	(5-10 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						
<b>CDR30-EBD</b> 30nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR30_NCHR_3	<b>HDC/DLC</b>	10 nm	150 nm	30 nm	8 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(150-200 nm)	(+ 5 nm)	(5-10 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						
<b>CDR20-EBD</b> 20nm full carbon CD probe. Low vertical edge height, constant edge radius maintains resolution over tip life.																						
order#: CDR20_NCHR_3	<b>HDC/DLC</b>	10 nm	150 nm	20 nm	7 nm	5 nm	3°	15 μm	15 μm	Si	NT-TESPA	125 μm	30 μm	4 μm	42 N/m	320 kHz	none	reflex	3400 μm	1600 μm	315 μm	yes
		(<15 nm)	(150-200 nm)	(+ 5 nm)	(>5 nm)	(<10 nm)	( +0.5°)	(10 - 15 μm)	(5 - 25 μm)			(+2 μm)	(+1 μm)	(3 - 5 μm)	(35 - 45 N/m)	(300-340 kHz)						