

Cantilever Data	Value	Range*
Resonance Frequency	6 kHz	3 - 14 kHz
Force Constant	0.03 N/m	0.004 - 0.54 N/m
Length	500 µm	495 - 505 µm
Mean Width	100 µm	95 - 105 µm
Thickness	1 µm	0.5 - 2.5 µm

NanoWorld® Arrow™ TL8 probes are tipless AFM cantilevers for special applications. They can for example be used for attaching spheres and other objects to the free end of the AFM cantilever, or for functionalizing and sensing applications.

All SPM and AFM probes of the Arrow™ series are made from monolithic silicon which is highly doped to dissipate static charge and are chemically inert. The TL8 probes feature eight rectangular AFM cantilevers having a triangular free end. The AFM cantilevers have a pitch of 250 µm.

The Arrow™ TL8Au probes feature a sample facing side gold coating. They are optionally available without a coating (Arrow™ TL8).

Tip shape: Tipless

Coating: Gold on Sample Facing Side

Gold Coating

The gold coating consists of a thin gold layer deposited on the sample facing side of the AFM cantilevers. As the coating is almost stress-free the bending of the AFM cantilevers due to stress is less than 2 degrees.

Order Code	Quantity	Data Sheet
ARROW-TL8Au-50	50	Nominal values