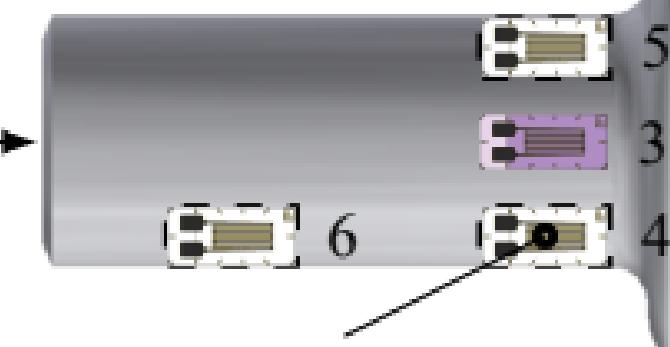


Power supply

Oscillator  
and controller

Piezoelectric  
transducer

Flange



Strain gauge

Sample

US vibration  
direction

2

1

Cutting tool

Rotation

y  
x  
z

Feed direction