

→ ask Dr. Liu (what cutting tools/input vars will be used)

SME Meeting

Need to ensure strain gauge placement is good

Glue → Bob Kraenick (super glue) → strain gauge kits

Size of gauge vs size of substrate

↳ transducer quality strain gauges (3S for 5)

↳ size of strain gauge vs substrate

↳ need to match gauge to thermal effects of steel

↳ if the prewired lead comes off → fucked

Regular quality → 68 for 10

Bargain strain gauges → get what you pay for

↳ grid size → occupy $\frac{1}{3}$ or less of the leg thickness

↳ is it pad or actual element (want the actual pad $\leq \frac{1}{2}$)

↳ strain of gauge → based off of gauge length
limit/
range

↳ physical consideration → tweezers, magnifying glass

↳ or 1 week to setup 28 gauges

↳ don't use a dremel

↳ soldering onto pads → need a good iron and flux

↳ wear gloves (nitrile)

↳ have to solder on after its mounted

↳ Vishay how to guide

↳ 3S in → 8.89 mm → ~3mm strain gauge max!

↳ can use polyurethane to protect gauges

↳ Boedo - ask about stress concentrations

Challenging

Sally Beauty → isopropyl alcohol (no fragrance)

→ make sure to follow catalyst instructions exactly