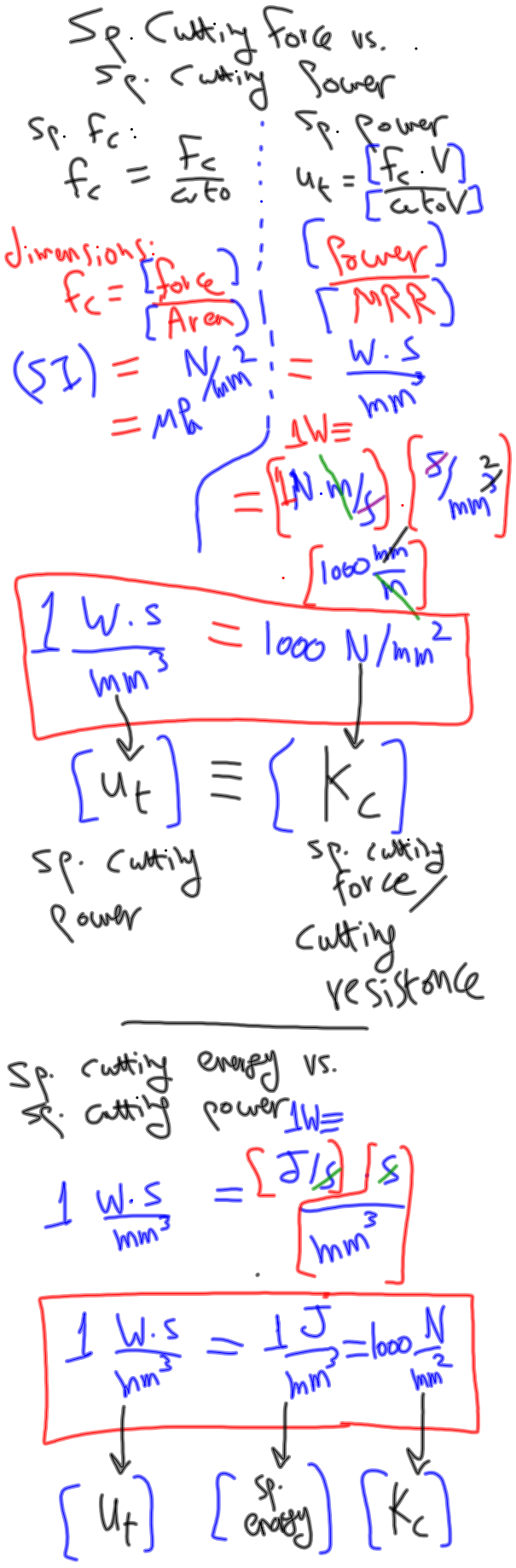
Sp. Cutting Force vs.
Sp. Cutting Power
Sp. fc:
fc = Fc / a·to
Sp. Power
ut = [fc · V] / [a·to·V]
dimensions:
fc = [force] / [Area]
[Power] / [MRR]
(SI) = N/mm² = W·s/mm³
= MPa
1W ≡
= [1 N·m/s] [s/mm³]
[1000 mm/m]
1 W·s/mm³ = 1000 N/mm²
[ut] ≡ [kc]
Sp. Cutting Power
Sp. Cutting Force / Cutting Resistance
Sp. Cutting Energy vs.
Sp. Cutting Power
1W ≡
1 W·s/mm³ = [J/s] [s] / [mm³]
1 W·s/mm³ = 1 J/mm³ = 1000 N/mm²
[ut]
[Sp. Energy]
[kc]