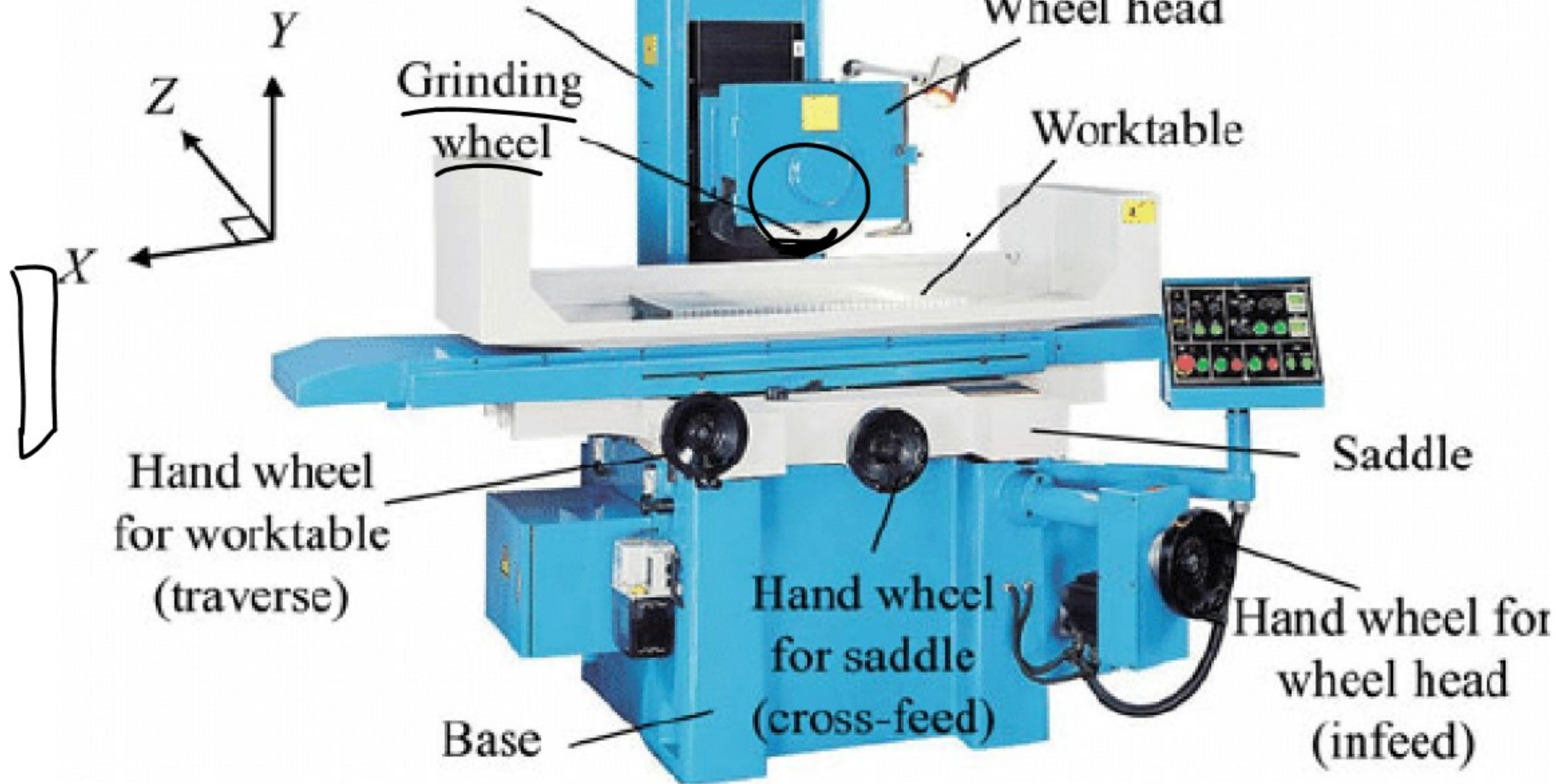
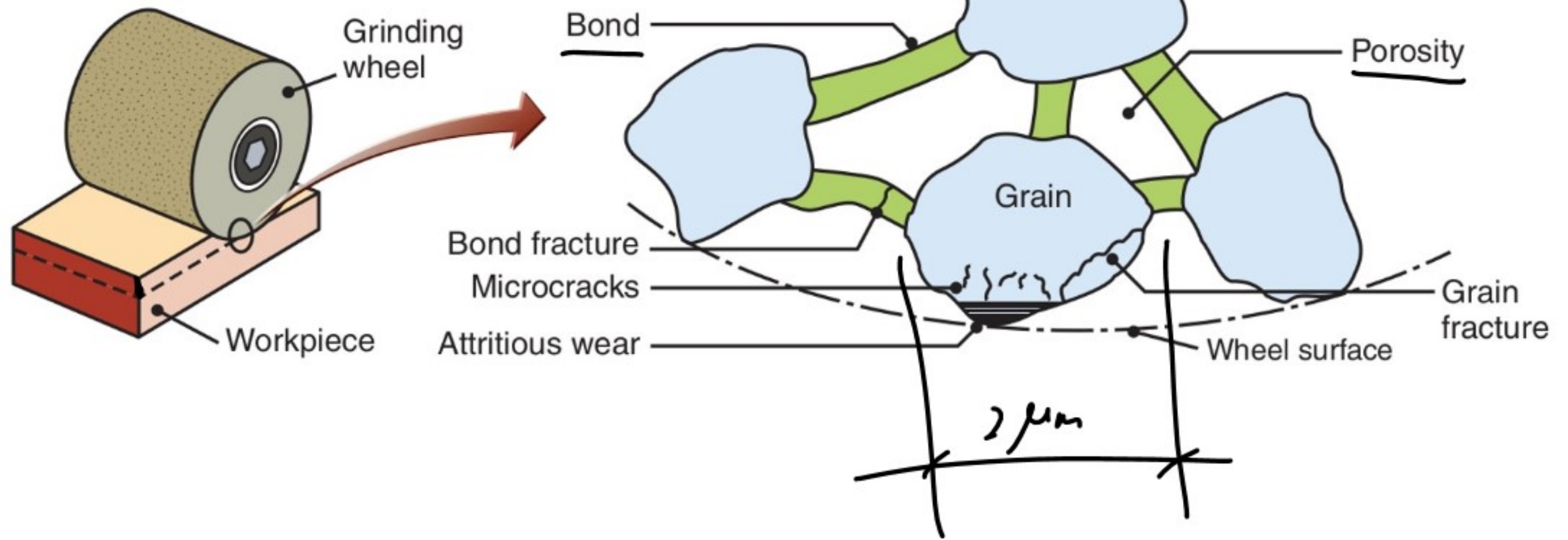


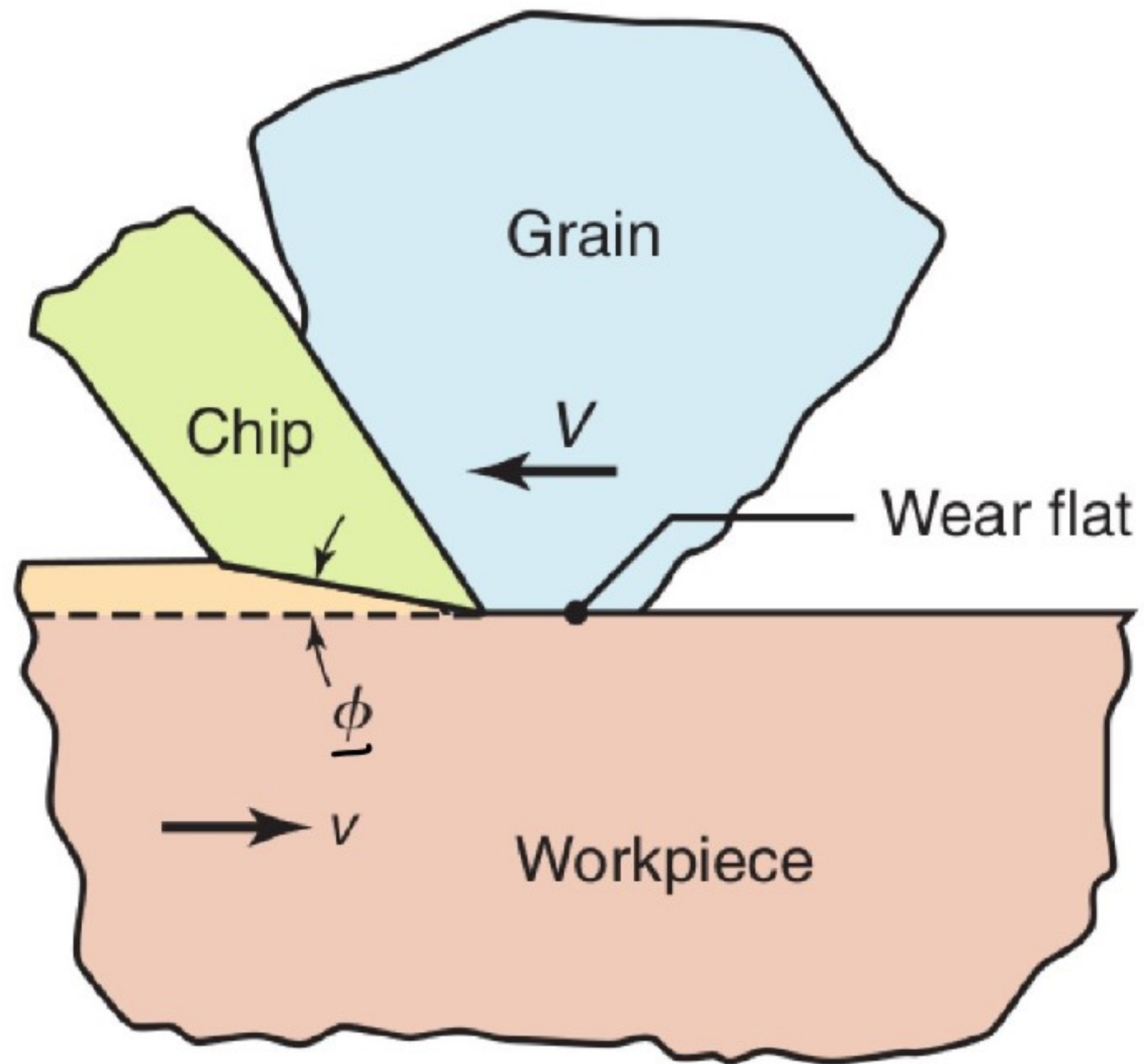
Grinding

Surface

Grinder







Grinding Wheels

Aluminium Oxide

Silicon Carbide

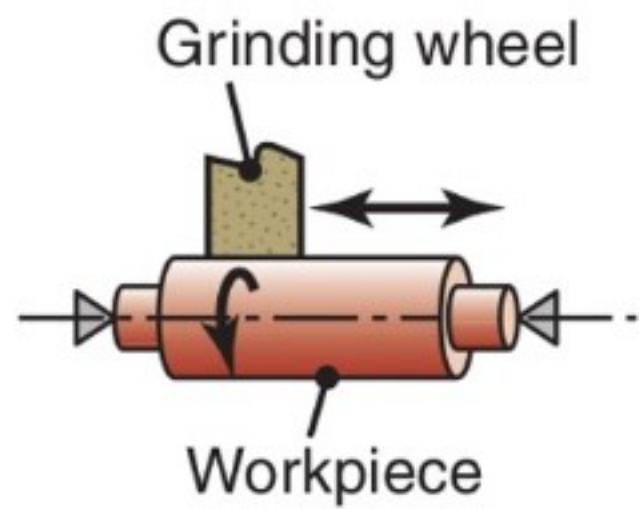
Cubic Boron Nitride

Diamond

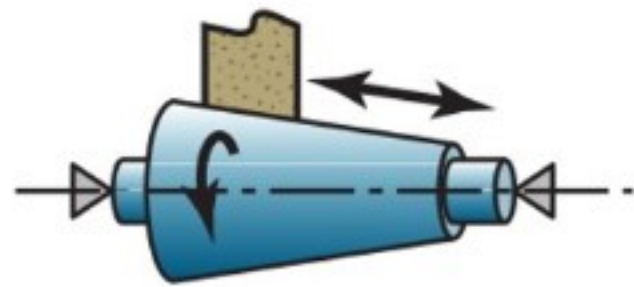
Grinding Ratio

$$G = \frac{\text{Volume of Material Removed}}{\text{Volume of Wheel Removed}}$$

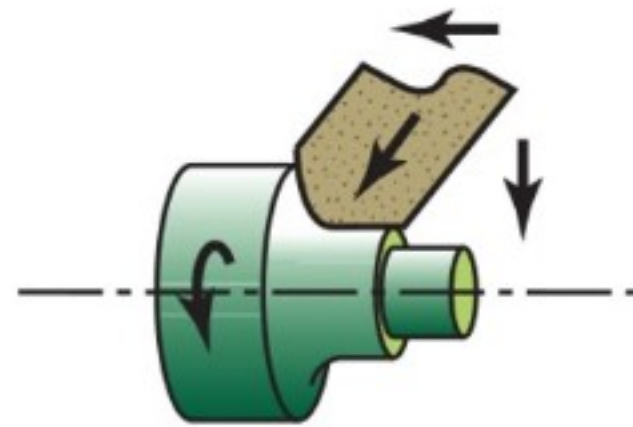
G typically between 2 and 200



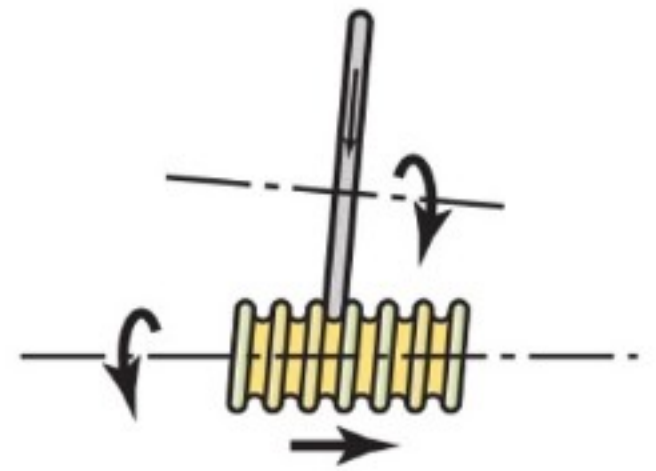
(a)



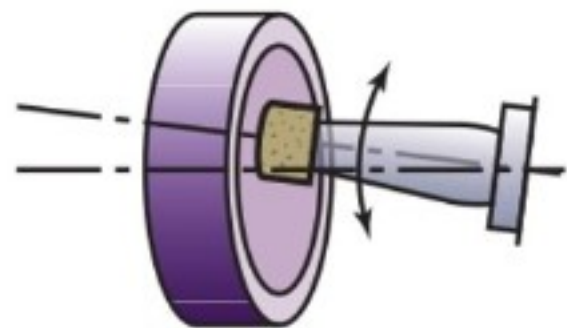
(b)



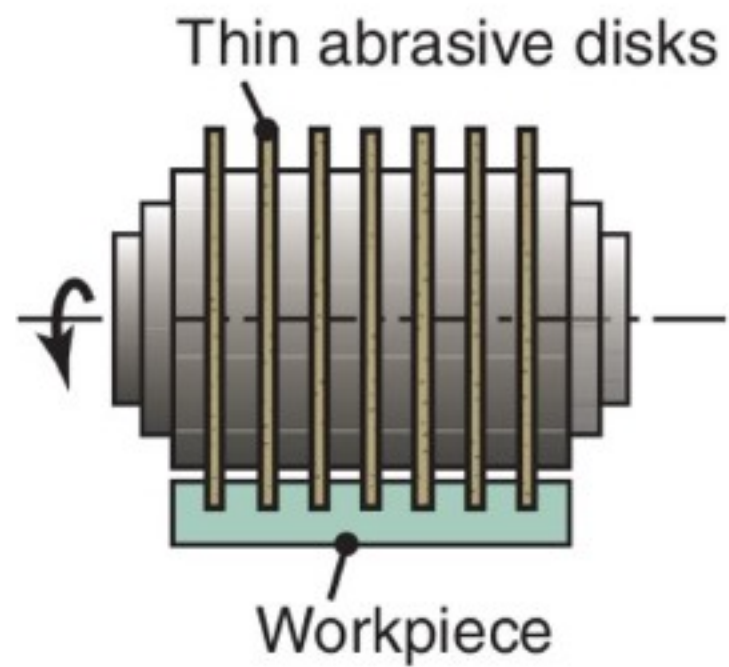
(c)



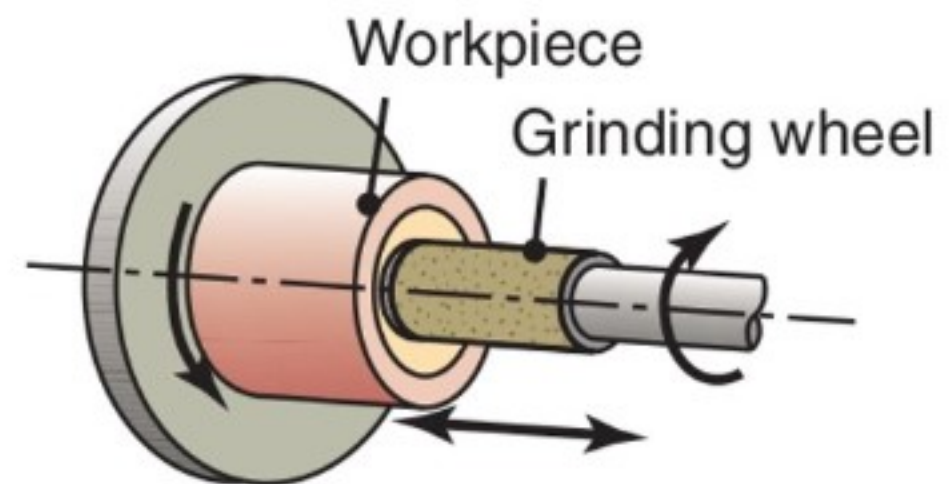
(d)



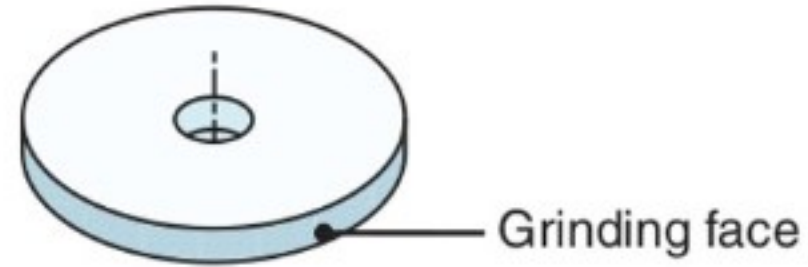
(e)



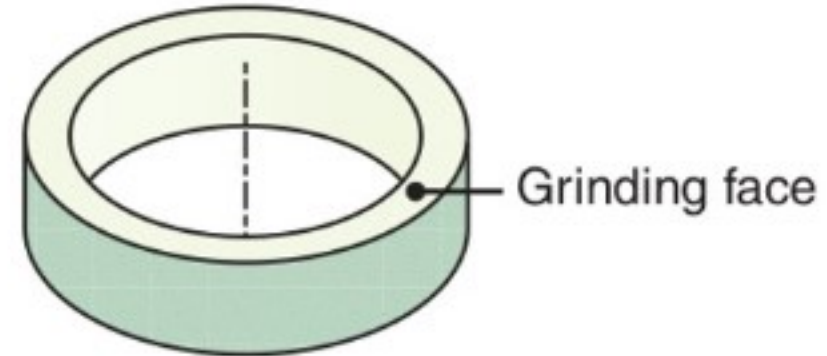
(f)



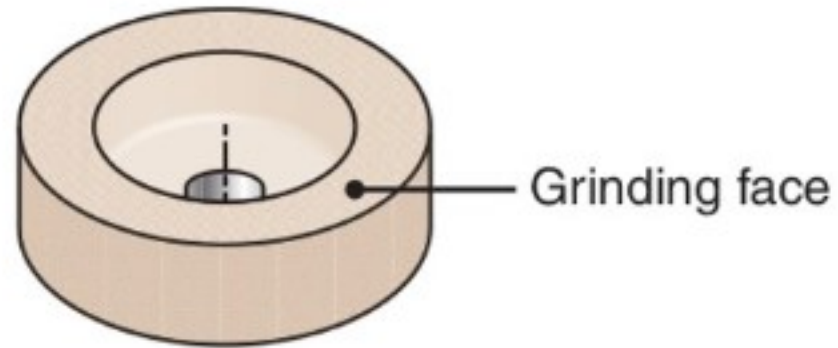
(g)



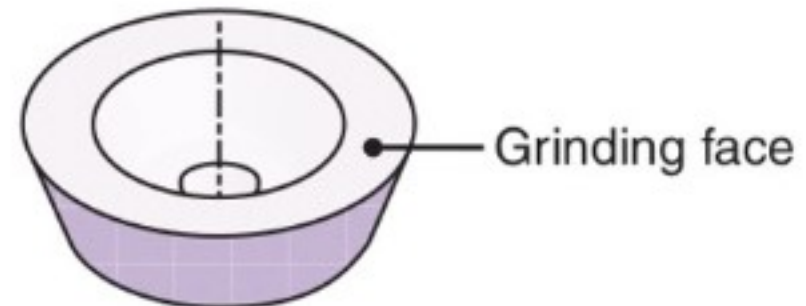
(a) Type 1—straight



(b) Type 2—cylinder



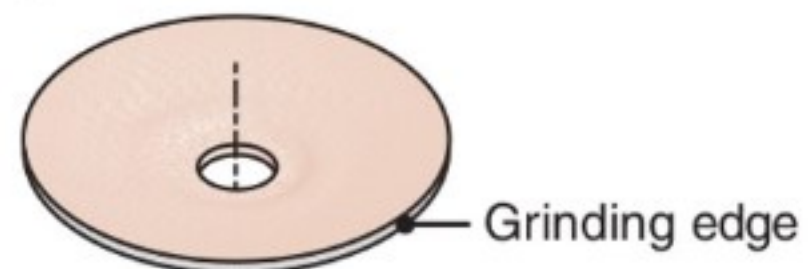
(c) Type 6—straight cup



(d) Type 11—flaring cup



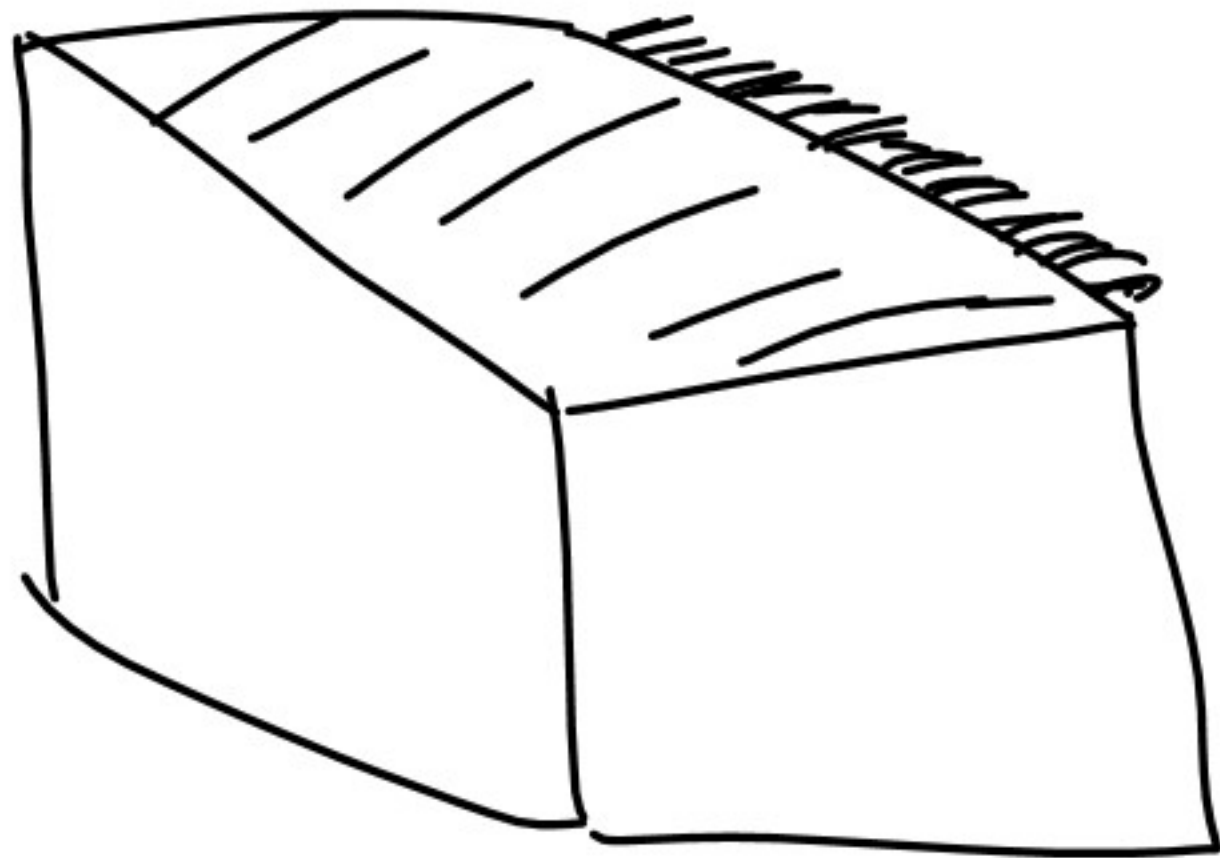
(e) Type 27—depressed center

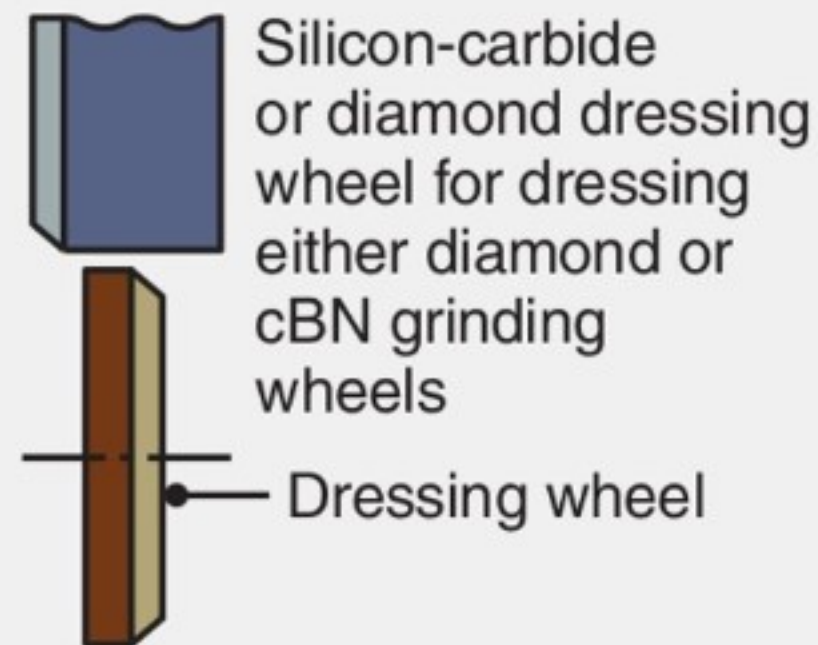
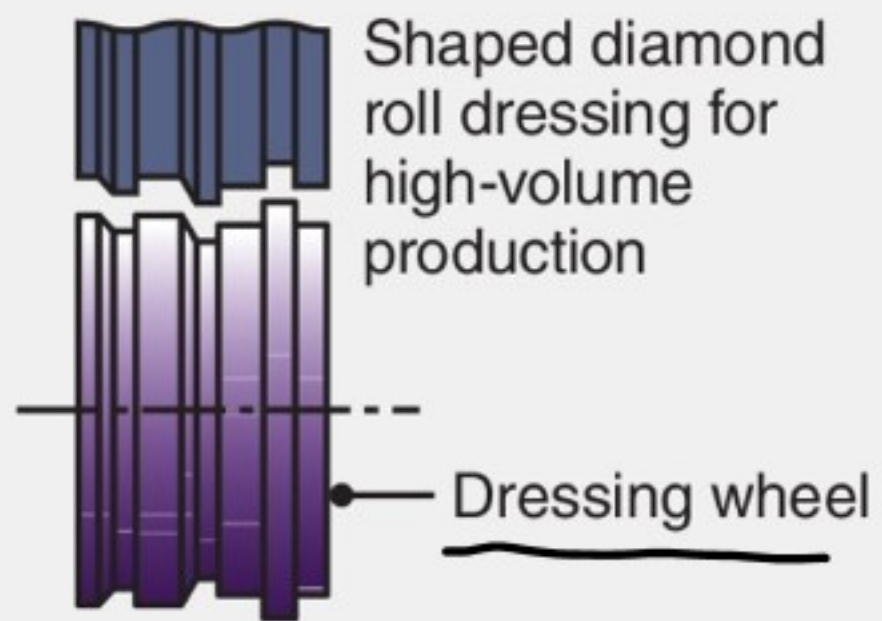
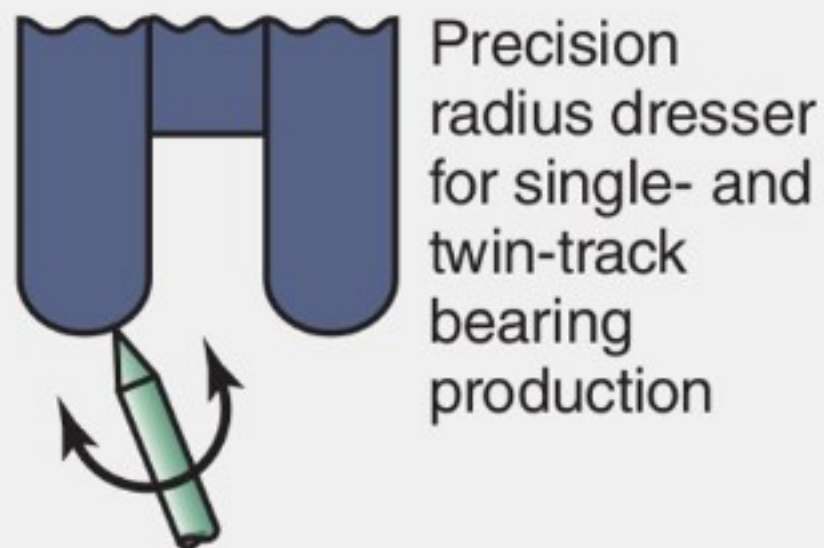
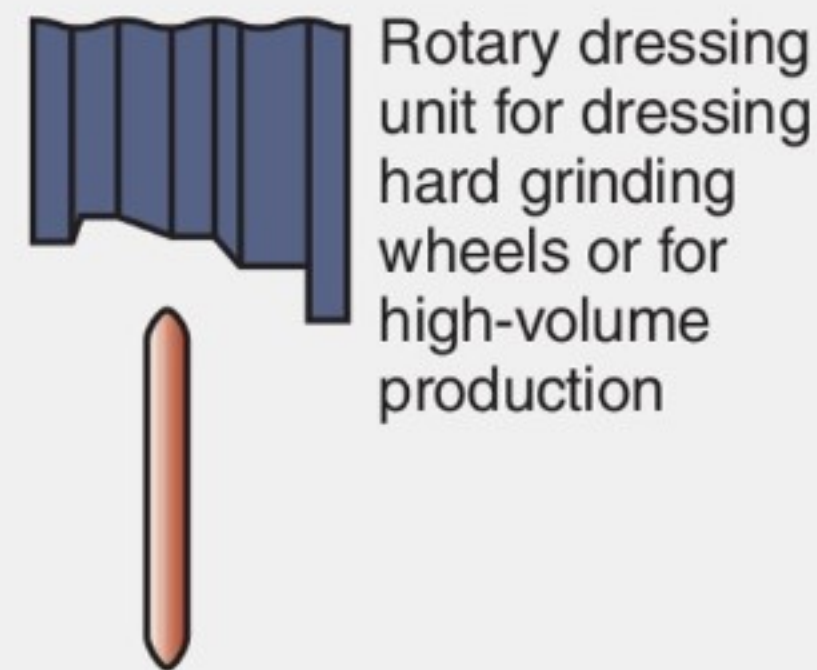
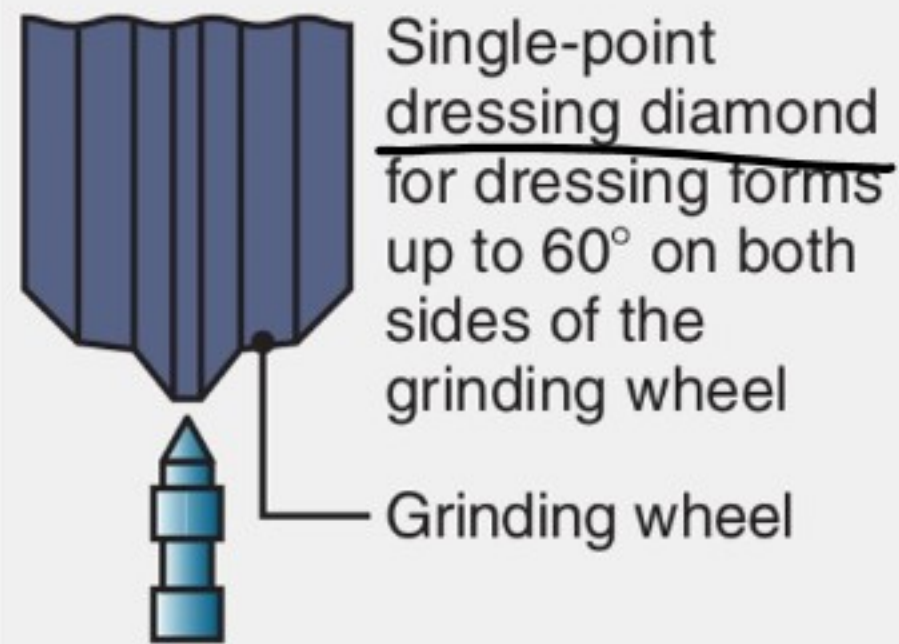


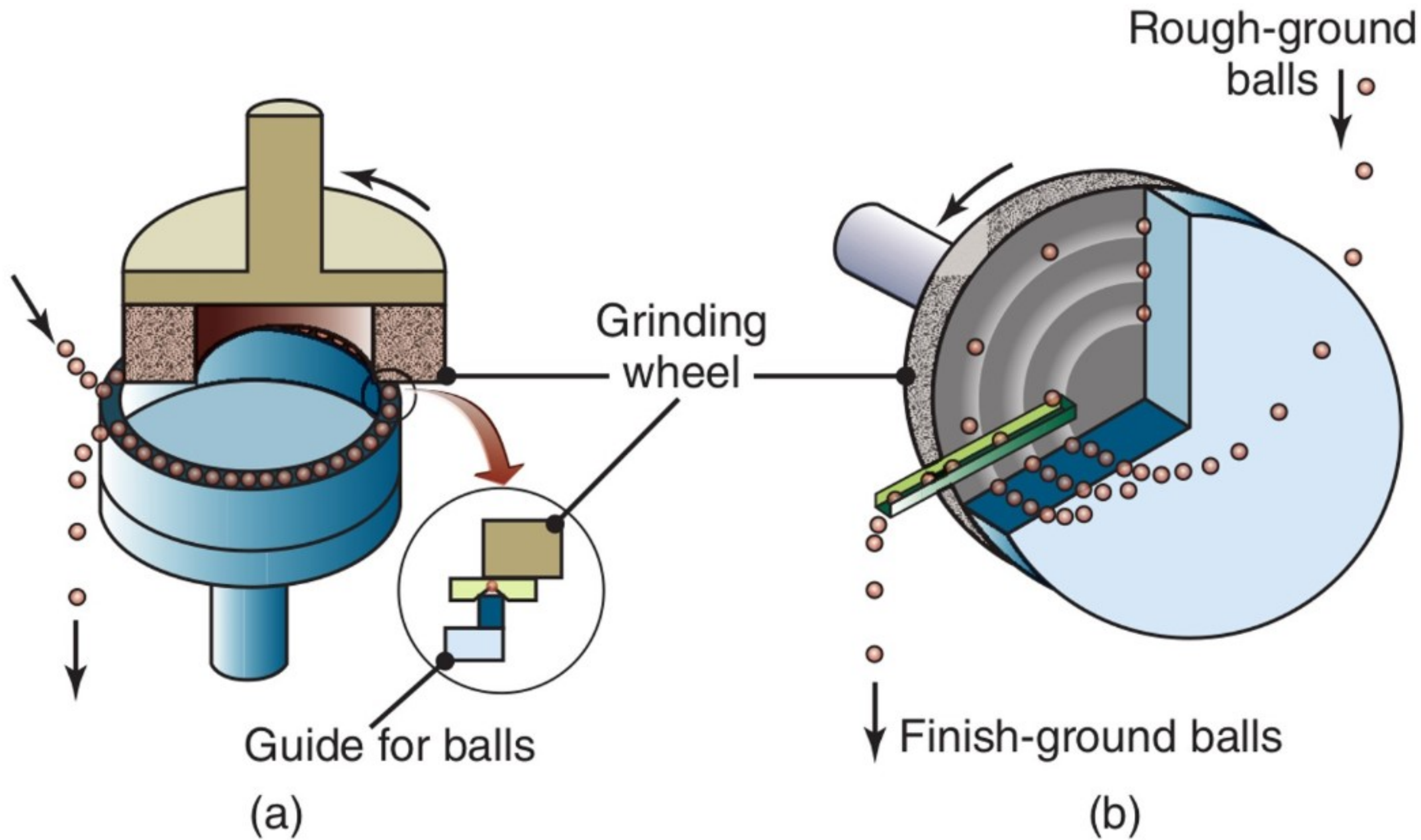
(f) Type 28—depressed center



(g) Mounted

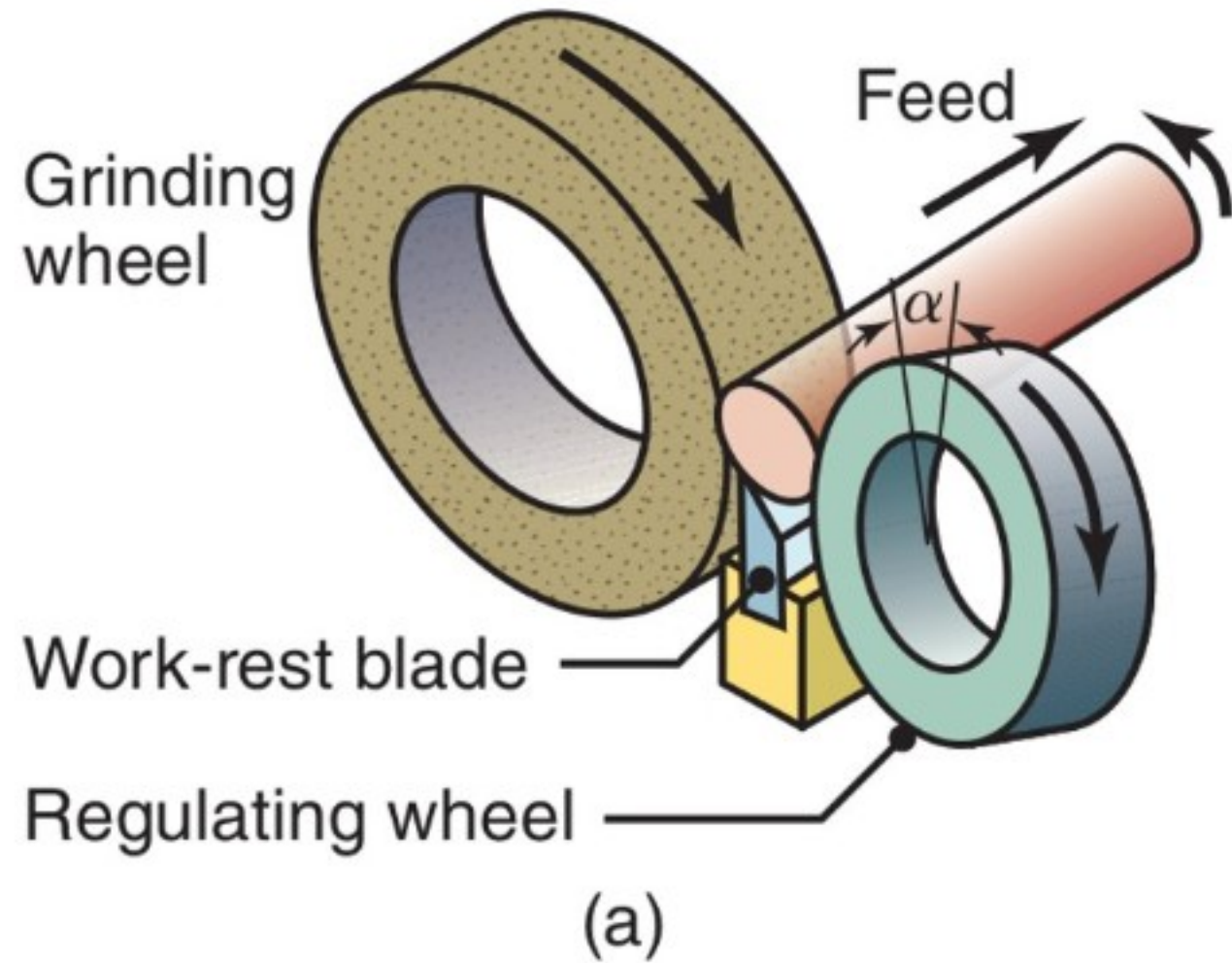




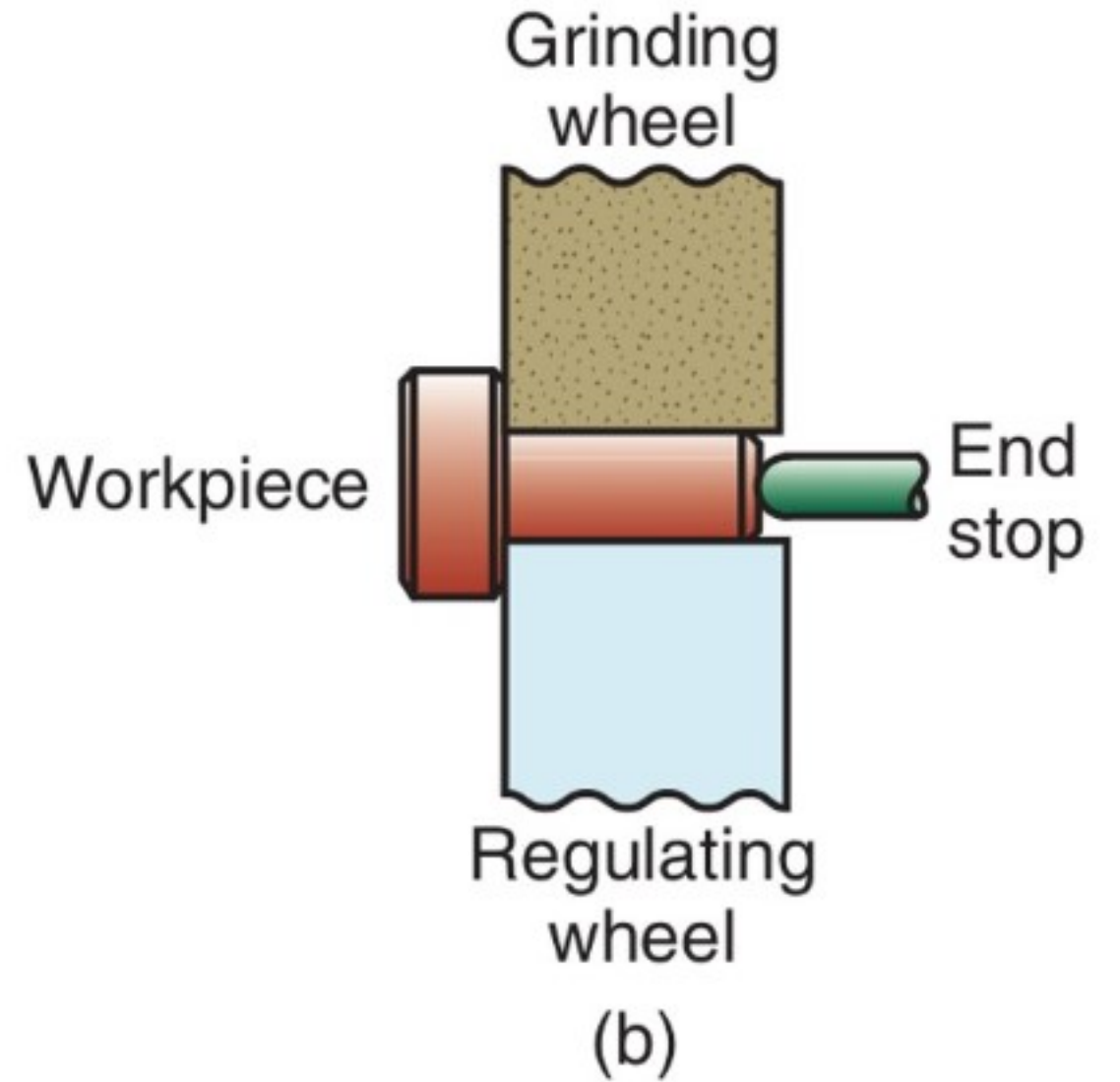


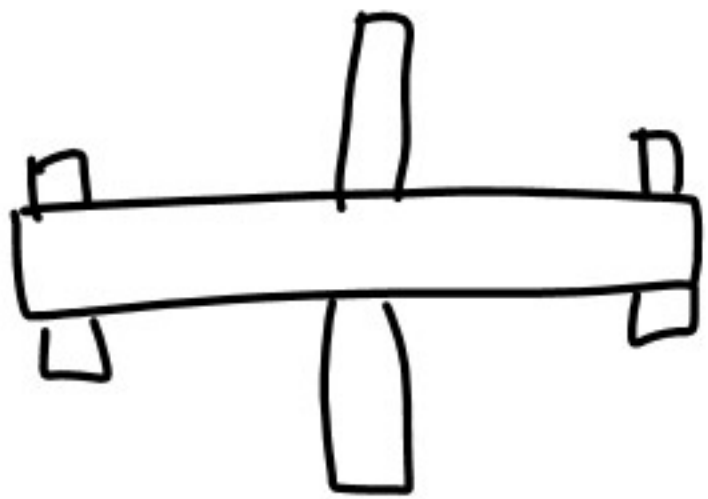
Centerless grinding

Through-feed grinding

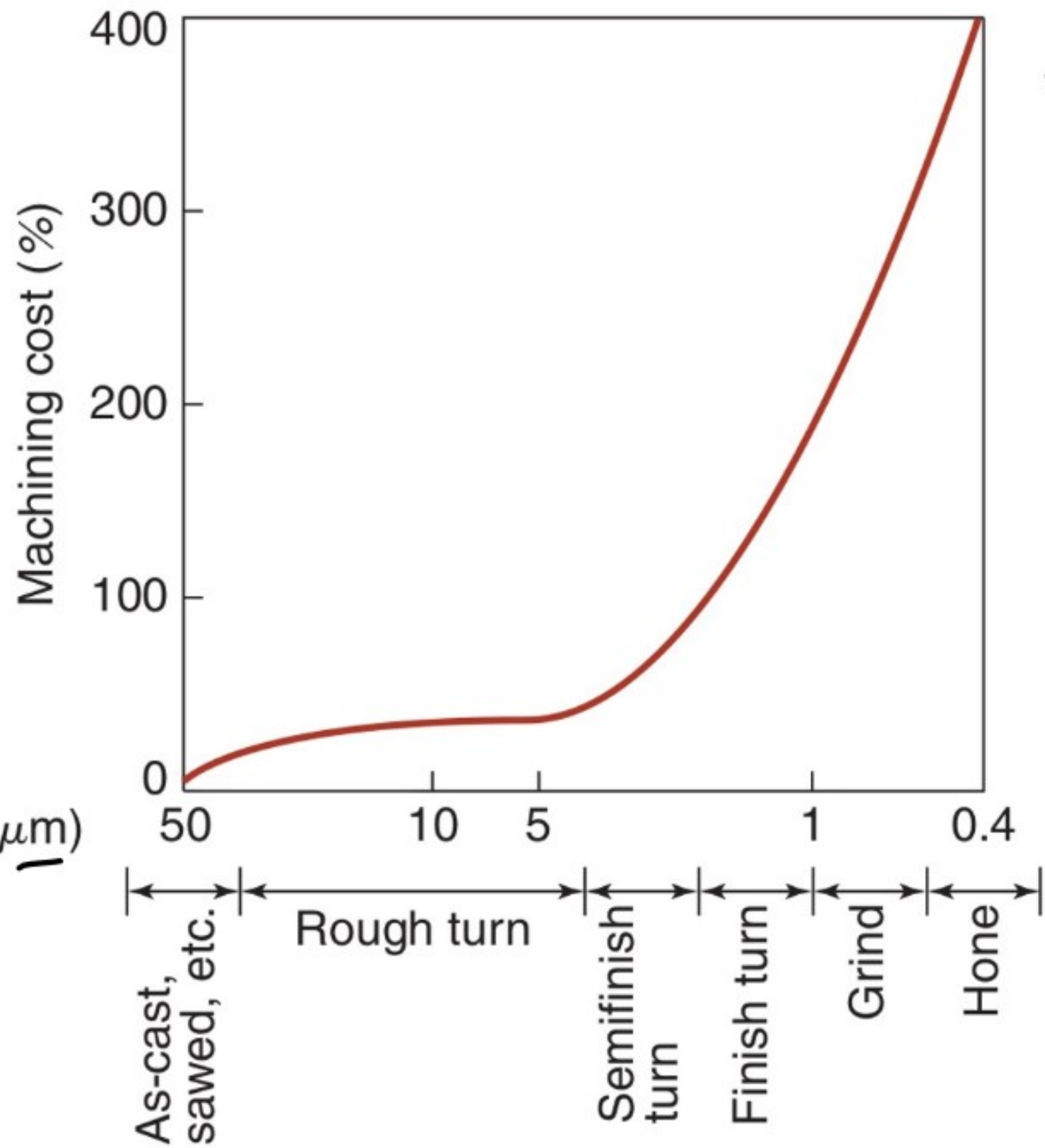


Plunge grinding





Surface
finish, R_a (μm)

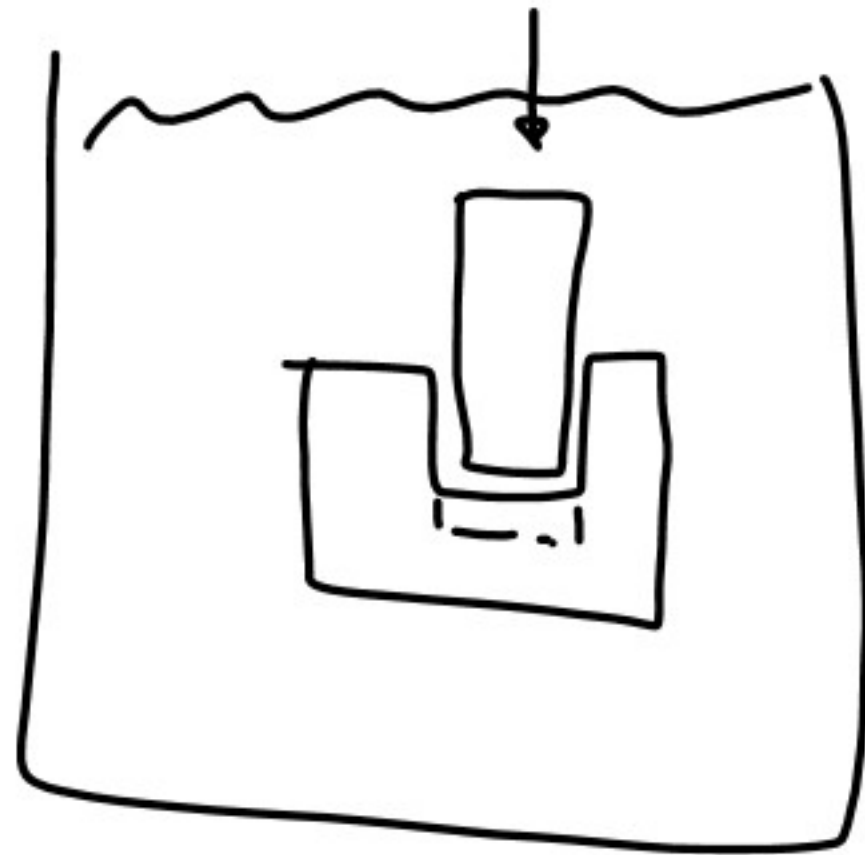


Esoteric

Electrical Discharge Machining

1940s

EDM

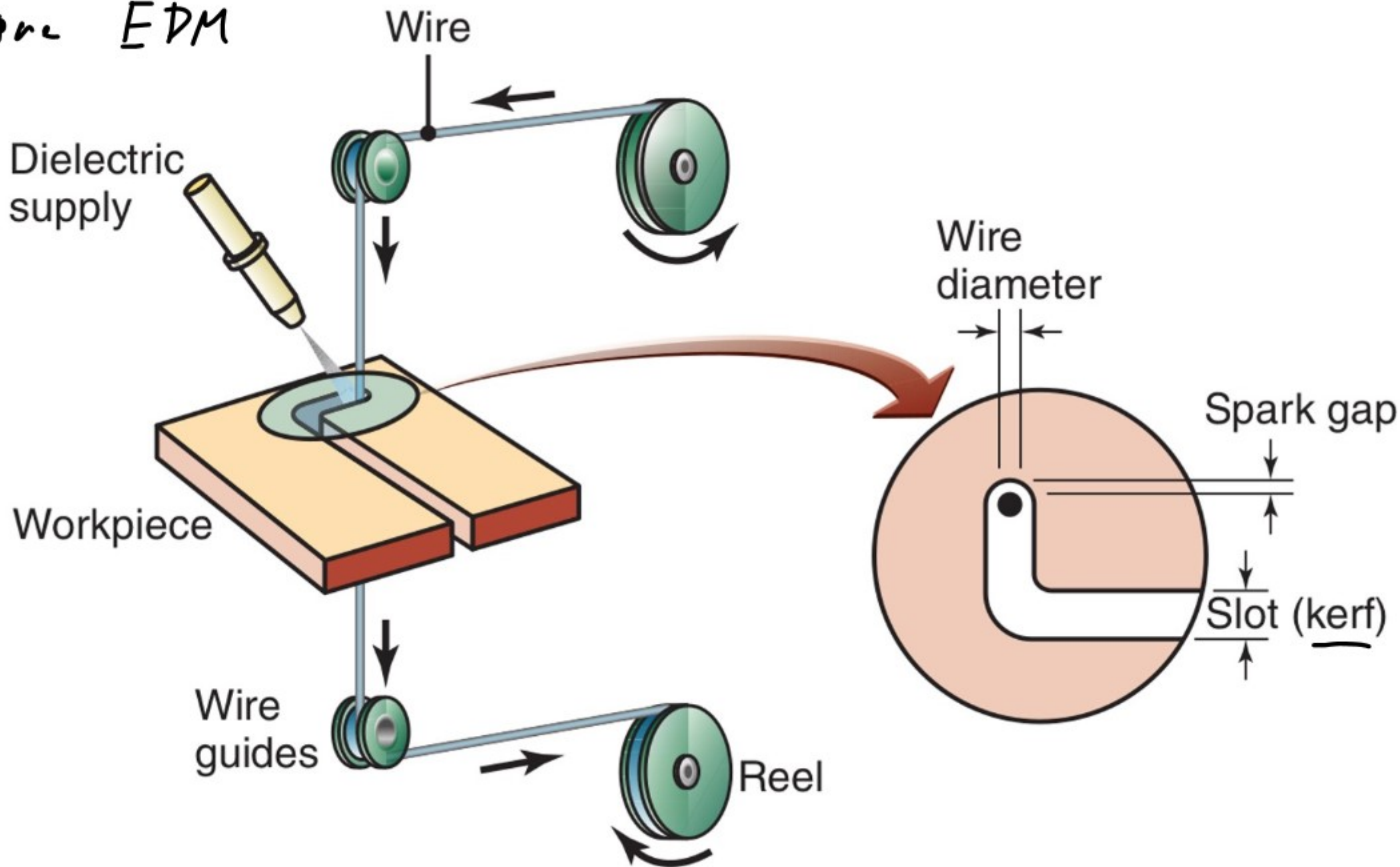


Dielectric



Sinker EDM

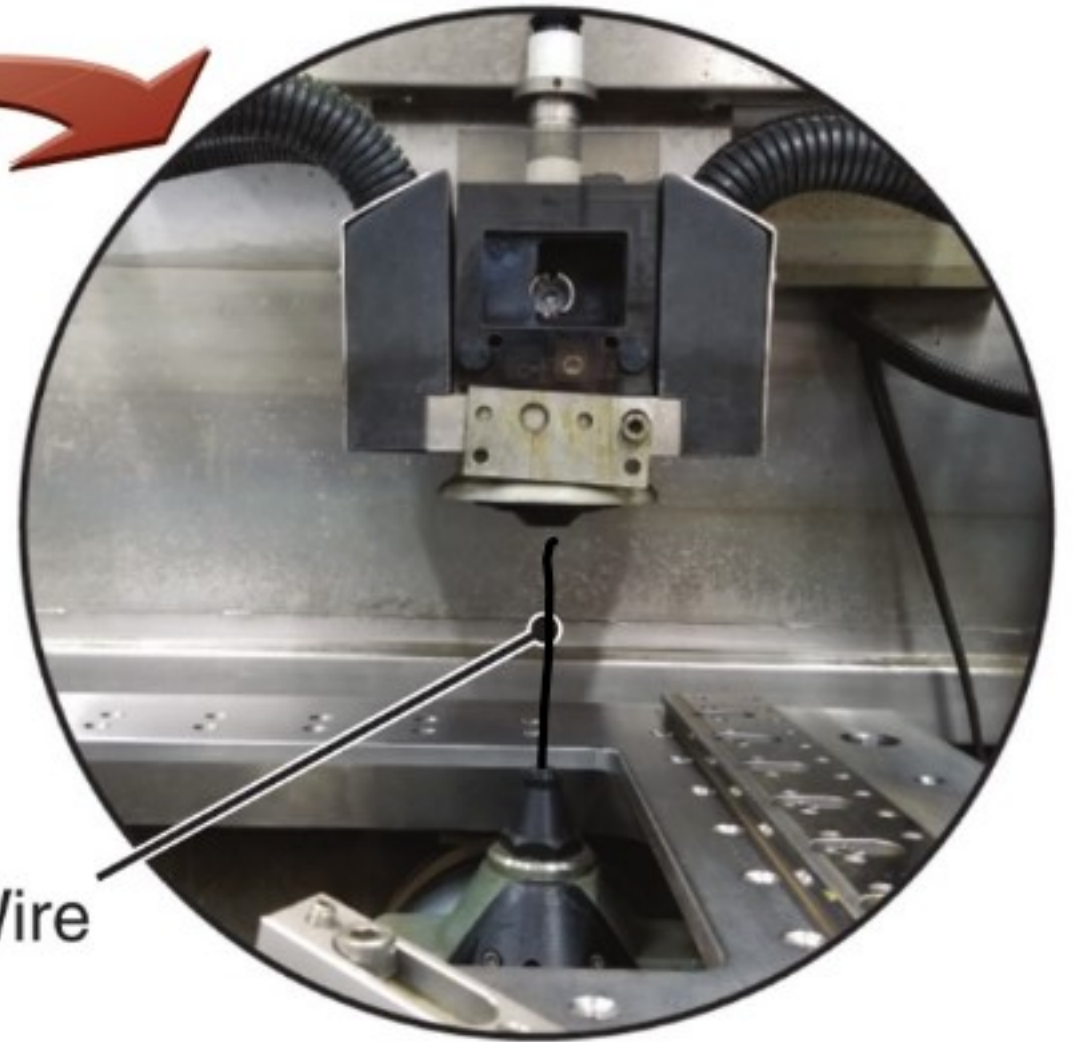
Wire EDM



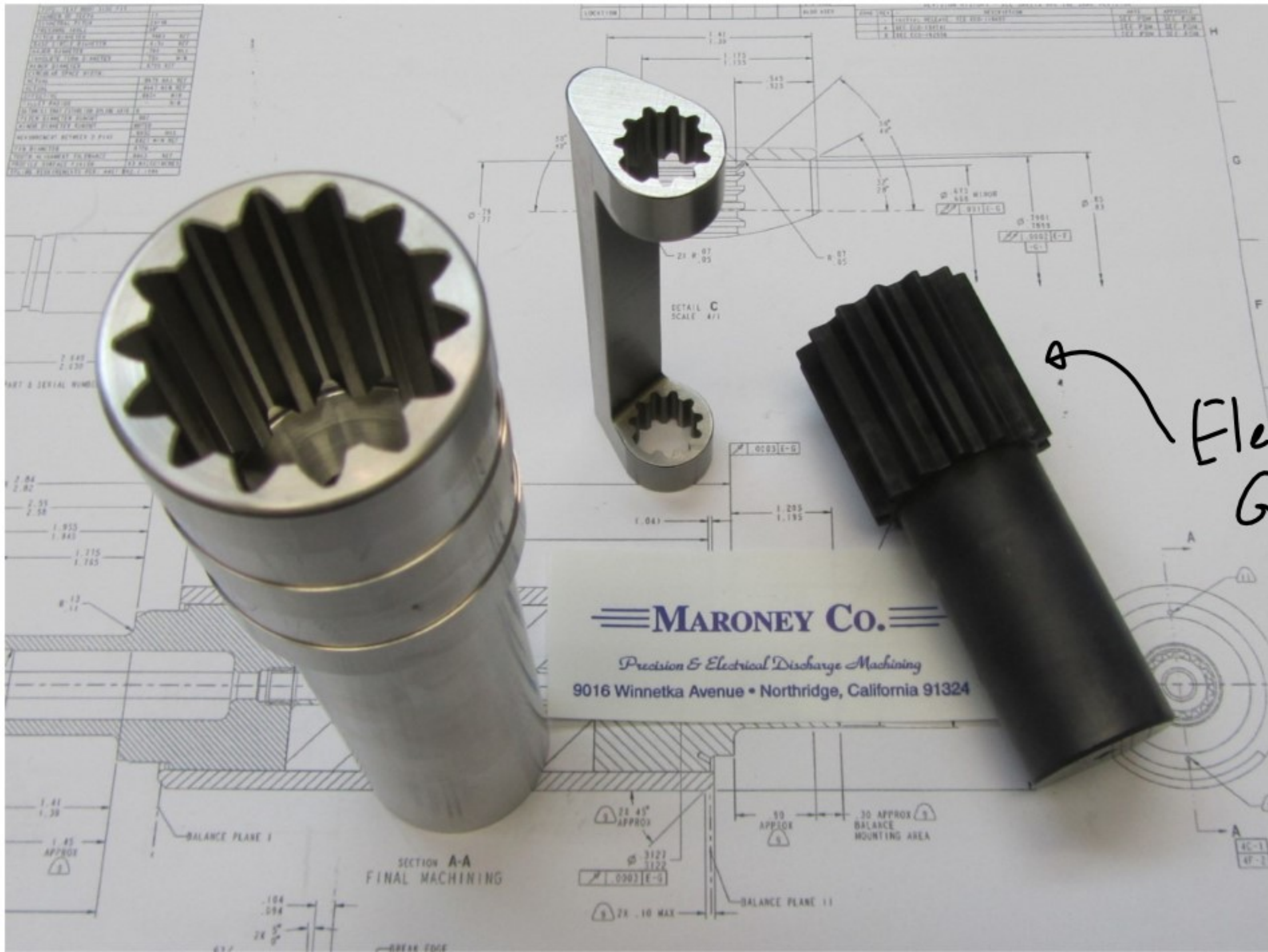
Wire spool



Wire



ITEM NO.	DESCRIPTION	QTY
1
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14
15
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49
50



Electrode
Graphite

MARONEY Co.

Precision & Electrical Discharge Machining
9016 Winnetka Avenue • Northridge, California 91324

SECTION A-A
FINAL MACHINING

2X 45° APPROX
3127
3122
0.003 E-S
2X .10 MAX
90 APPROX
30 APPROX BALANCE MOUNTING AREA
BALANCE PLANE I
BALANCE PLANE II

- ▶ Surface Grinding (<https://youtu.be/X2h-YgvSNx8?t=2067>)
- ▶ Centerless Grinding (<https://www.instagram.com/p/CWL2TTBJXSw/>)
- ▶ Broaching (<https://www.tiktok.com/@epgiou4/video/7144735884028693806>)
- ▶ Surface Plate Lapping (https://youtu.be/k82T0T_4UHg?t=2151)
- ▶ Sand Casting Molds (<https://youtu.be/7nlJjy4Dekw?t=492>)
- ▶ Sand Casting Pouring (<https://youtu.be/nylHKJaldEI?t=800>)