

COST OF INJECTION MOLDING

1 PROJECT CONSTRAINTS

- 1. BUDGET
- 2. LEAD TIME
- 3. PRODUCTION QUANTITY
- 4. PART DRAWINGS
- 5. MATERIALS
- 6. TOLERANCES
- 7. SURFACE FINISH

2 MACHINE CONSTRAINTS

- 1. MAX. SHOT SIZE
- 2. MAX. MOLD SIZE
- 3. MAX. CLAMPING FORCE
- 4. PLASTICITY

3 COST ESTIMATION

1. RAW MATERIAL COSTS

- a. Part weight
- b. Runner size

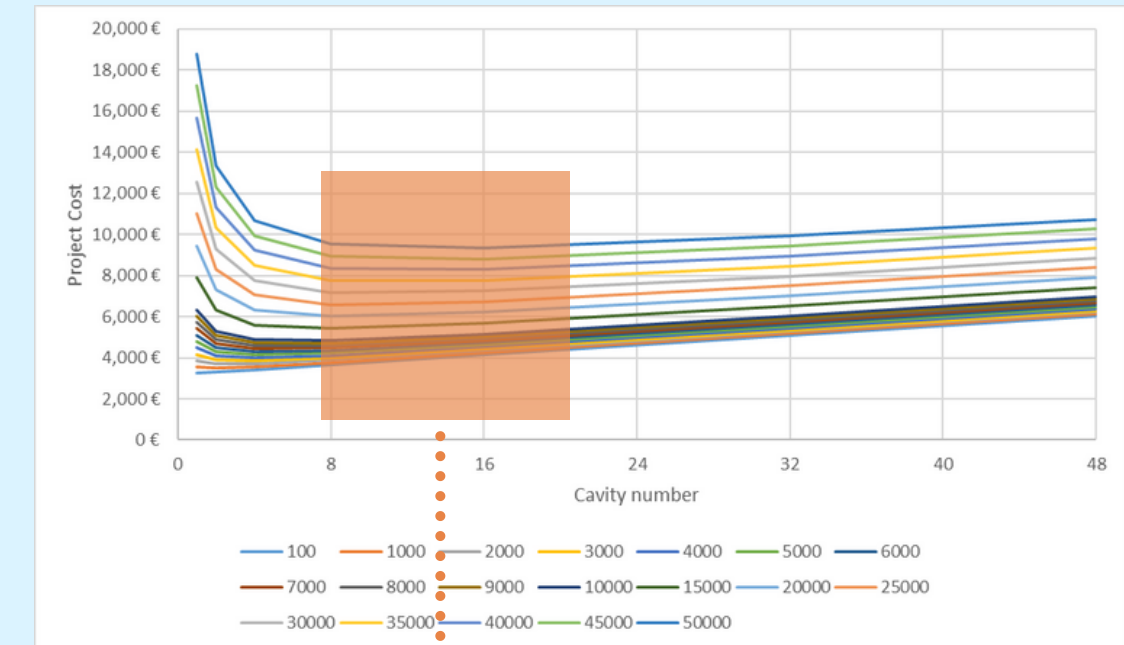
2. MOLD COSTS

- a. Fixed min. time to start
- b. Raw material cost
- c. Hourly machine and op. rate
- d. Machine depreciation
- e. CAD design
- f. Fixed time per cavity machined
- g. Difficulty level
- h. Surface finish

3. MANUFACTURING COSTS

- a. Cycle time for 1 cavity
- b. Prolonged cycle time per cavity
- c. Hourly machine op. rate
- d. Machine depreciation
- e. Consumables and other costs

4 FINDING OPTIMAL COST



e.g.
1000€-5000€
4-8 WEEKS
20K-50K PCS

e.g.
1-8 CAVITIES

e.g.
6000€
4 WEEKS
20K PCS
8 CAVITIES