

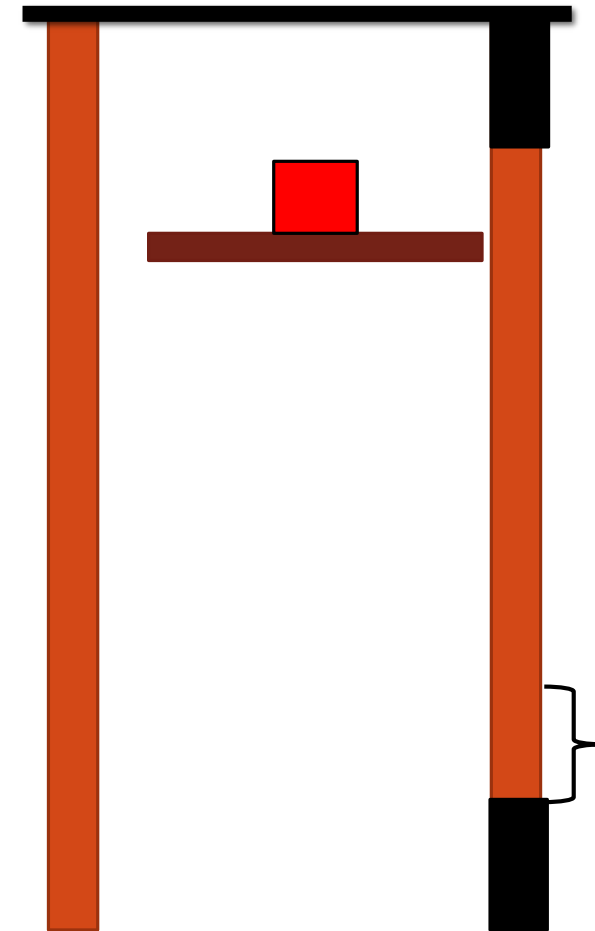
Lifter

VIBODHA B

UOC, UVA

Back lash measurement of the lifter

- Move the lifter to a lower position
- Move 100 steps down and up to remove initial backlash
- Read the initial distance from a hard stop
- Move 50000 steps Up
- Move 50000 steps Down
- Read final distance from the hard stop



Results

Trial	Initial Length (in)	Final Length (in)	Difference (in)
1	1.300	1.302	0.002
2	1.304	1.305	0.001
3	1.302	1.302	0
4	1.303	1.303	0
5	1.303	1.303	0
6	1.303	1.303	0
7	1.303	1.303	0

- The backlash of the lifter is too small to measure with a caliper
- Measured backlash Upward → Downward movement
- Since the lifter movement is vertically there can be a higher backlash value for Downward → Upward (only a suspicion)
- Need to check the backlash for the other direction.

Thank You