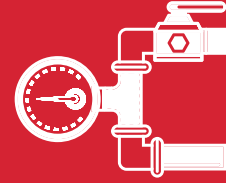


VERTICAL MATERIAL LIFT SYSTEM COMPARISON



MECHANICAL



HYDRAULIC

Will never leak.

FLUIDS



Will eventually leak. Slight seepage is considered normal. This is an environmental issue, as hydraulic fluid is extremely toxic.

Driven by an electric brake motor cyclo-reducer, which lifts the platforms with cables or chains.

LIFTING FORCE



Electric motor drives the hydraulic pump forcing fluid thru a system of control valves, flexible hoses, and cylinders. Higher applications must also add cables or chains, increasing complexity and maintenance.

100% duty cycle.
(Lift usage is not limited)

CYCLE LIMITS



Only 6 cycles per hour average.

Steady & smooth. Precise positioning with limit switches.



TRAVEL

High oil temperature, which could lead to a lift shutdown, can cause jerky and inconsistent movement. Precise intermediate stops and leveling are not possible due to hydraulic drift.

Very quiet.



NOISE

Higher noise level.
High pitched whine.

The cable will stretch over time, but that is all that will have to be replaced.

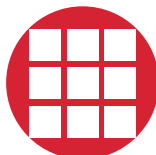
MAINTENANCE



As the unit ages, the hydraulic pump, cylinders, chain, seals, packings, and hydraulic oil will need to be replaced for the lift to continue to move the rated capacity.

No difference

LIFTING CAPACITY



No difference