What is claimed is:

1. A linear actuator, comprising:

a piston having a piston slot and configured to:

linearly shift from a first piston position to a second piston position; and

rotate as the piston shifts towards the first piston position;

an activating lever comprising:

a shoulder that the piston engages as the piston shifts to the second piston position,

wherein the activating lever is configured to shift from a first activating lever position to a second activating lever position after piston engages the shoulder; and

a retractable rail configured to shift from a first retractable rail position downwards to a second retractable rail position, and comprising:

a retractable rail tab positioned in a groove of the piston slot as the piston shifts from the first piston position to the second piston position and while the retractable rail is in the first retractable rail position.

2. The linear actuator of claim 1, wherein the piston is configured to linearly shift from the second piston position to a third piston position and away from the first piston position, and wherein the activating lever is configured to shift from the first activating lever position to the second activating lever position as the piston linearly shifts from the second piston position to the third piston position.

3. The linear actuator of claim 2, wherein the piston is configured to linearly shift from the third piston position to a fourth piston position and towards the first piston position, and wherein the activating lever maintains in the second activating lever position while the piston linearly shifts from the third piston position to the fourth piston position.

4. The linear actuator of claim 2, wherein the activating lever further comprises an activating lever slot, and wherein the piston further comprises a piston tab that is configured to slide within a groove of the activating lever slot.

5. The linear actuator of claim 4, wherein the piston tab is configured to slide into the groove of the activating lever slot before the piston engages the shoulder of the activating lever.

6. The linear actuator of claim 5, wherein at least a portion of the piston tab remains in the groove of the activating lever slot while the piston is in the second piston position and while the piston is shifting from the second piston position to the third piston position.

7. The linear actuator of claim 4, wherein the piston tab is configured to slide into the groove of the activating lever slot while the retractable rail tab is positioned in the groove of the piston slot.

8. The linear actuator of claim 2, wherein the retractable rail further comprises one or more protrusions extruding from one or both sides of the retractable rail, and the activating lever further comprises one or more openings along one or both sides of the activating lever, each opening having a sloped profile, the protrusions and the sloped profiles are positioned such that as the activating lever shifts from the first activating lever position to the second activating lever position, the activating lever pushes the protrusions down the sloped profiles, and this shifts the retractable rail from the first retractable rail position to the second retractable rail position.

9. The linear actuator of claim 2, wherein the activating lever comprises a second shoulder, and wherein a threshold amount of force applied to the second shoulder while the piston is shifting towards the first piston position shifts the activating lever from the second activating lever position to the first activating lever position.

10. The linear actuator of claim 9, wherein the retractable rail further comprises one or more protrusions extruding from one or both sides of the retractable rail, and the activating lever further comprises one or more openings along one or both sides of the activating lever, each opening having a sloped profile, the protrusions and the sloped profiles are positioned such that as the activating lever shifts towards the first activating lever position, the activating lever pushes the protrusions up the sloped

profiles, and this shifts the retractable rail from the second retractable rail position to the first retractable rail position.

11. The linear actuator of claim 1, further comprising a spring that is compressed from a natural state to a compressed state as the retractable rail shifts from the first retractable rail position to the second retractable rail position, and wherein a force applied by the spring returning to the natural state shifts the retractable rail from the second retractable rail position to the first retractable rail position.

12. The linear actuator of claim 1, further comprising a ball screw that is coupled to the piston and configured to rotate in a first direction to linearly shift the piston from the first piston position to the second piston position.

13. The linear actuator of claim 1, wherein the activating lever further comprises an opening having a sloped profile along a side of the activating lever, and wherein the retractable rail further comprises a protrusion positioned along a side of the retractable rail and fitted in the opening, wherein as the activating lever shifts from the first activating lever position to the second activating lever position, the protrusion is pushed down the sloped profile to shift the retractable rail to the second retractable rail position, and wherein the retractable rail tab is not positioned within the groove of the piston slot while the retractable rail is in the second retractable rail position.

14. The linear actuator of claim 1, wherein the retractable rail further comprises an opening having a sloped profile along a side of the retractable rail, and wherein the activating lever further comprises a protrusion positioned along a side of the activating lever and fitted in the opening, wherein as the activating lever shifts from the first activating lever position to the second activating lever position, the protrusion is pushed down the sloped profile to shift the retractable rail to the second retractable rail position, and wherein the retractable rail tab is not positioned within the groove of the piston slot while the retractable rail is in the second retractable rail position.

15. A motor assembly, comprising:

a motor;

a gearbox; and

a linear actuator that is coupled to the motor, comprising:

a piston having a piston slot and configured to:

linearly shift from a first piston position to a second piston position; and

rotate as the piston shifts towards the first piston position;

an activating lever comprising:

a shoulder that the piston engages as the piston shifts to the second piston position,

wherein the activating lever is configured to shift from a first activating lever position to a second activating lever position after piston engages the shoulder; and

a retractable rail configured to shift from a first retractable rail position downwards to a second retractable rail position, and comprising:

a retractable rail tab positioned in a groove of the piston slot as the piston shifts from the first piston position to the second piston position and while the retractable rail is in the first retractable rail position.

16. The motor assembly of claim 15, wherein the piston is configured to linearly shift from the second piston position to a third piston position and away from the first piston position, and wherein the activating lever is configured to shift from the first activating lever position to the second activating lever position as the piston linearly shifts from the second piston position to the third piston position.

17. The motor assembly of claim 16, wherein the piston is configured to linearly shift from the third piston position to a fourth piston position and towards the first piston position, and wherein activating lever maintains in the second activating lever position while the piston linearly shifts from the third piston position to the fourth piston position.

18. The motor assembly of claim 15, wherein the activating lever further comprises an activating lever slot, and wherein the piston further comprises a piston tab that is configured to slide within a groove of the activating lever slot before the piston engages the shoulder of the activating lever.

19. The motor assembly of claim 15, further comprising a spring that is compressed from a natural state to a compressed state as the retractable rail shifts from the first retractable rail position to the second retractable rail position, and wherein a force applied by the spring returning to the natural state shifts the retractable rail from the second retractable rail position to the first retractable rail position.

20. The motor assembly of claim 15, further comprising a ball screw that is coupled to the piston and configured to rotate in a first direction to linearly shift the piston from the first piston position to the second piston position.

21. The motor assembly of claim 15, wherein the activating lever further comprises an opening having a sloped profile along a side of the activating lever, and wherein the retractable rail further comprises a protrusion positioned along a side of the retractable rail and fitted in the opening, wherein as the activating lever shifts from the first activating lever position to the second activating lever position, the protrusion is pushed down the sloped profile to shift the retractable rail to the second retractable rail position, and wherein the retractable rail tab is not positioned within the groove of the piston slot while the retractable rail is in the second retractable rail position.

22. The motor assembly of claim 15, wherein the retractable rail further comprises an opening having a sloped profile along a side of the retractable rail, and wherein the activating lever further comprises a protrusion positioned along a side of the activating lever and fitted in the opening, wherein as the activating lever shifts from the first activating lever position to the second activating lever position, the protrusion is pushed down the sloped profile to shift the retractable rail to the second retractable rail position, and wherein the retractable rail tab is not positioned within the groove of the piston slot while the retractable rail is in the second retractable rail position.

23. A method to actuate a device, comprising:

linearly shifting a piston from a first piston position to a second piston position, the piston having a piston slot that is engaged with a retractable rail tab of a retractable rail while the piston shifts from the first piston position to the second piston position;

engaging the piston to a shoulder of an activating lever;

shifting the activating lever from a first activating lever position to a second activating lever position to disengage the retractable rail tab from the piston slot; and

linearly shifting the piston from the second piston position to a third piston position and away from the first piston position to actuate the device.

24. The method of claim 23, wherein the activating lever comprises an opening having a sloped profile along a side of the activating lever, and wherein the retractable rail comprises a protrusion positioned along a side of the retractable rail and fitted in the opening, and the method further comprising pushing the retractable rail down the sloped profile to shift the retractable rail from a first retractable rail position to a second retractable rail position, wherein the retractable rail tab is disengaged from the piston slot while the retractable rail is in the second retractable rail position.