

FLX
ErgoSkeleton



The Flx is a wearable exoskeleton
for the active worker.



TWIST RESIST STRAPS

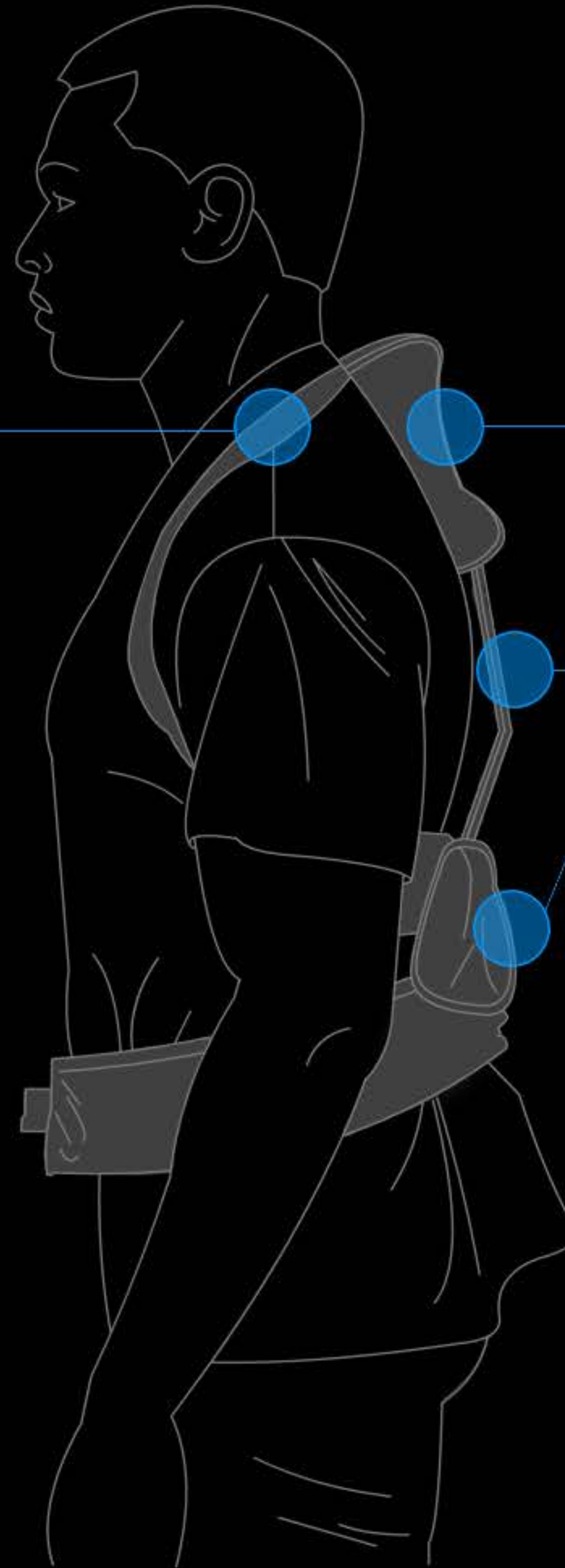
Functions like an external muscle preventing over rotation of the torso

POSTURE PADS

Poron® pods that align with pressure points on the back to give sensory feedback to the body.

FLX COLUMN

ExoSpine - mimics and supports the natural curvature of the spine



Twisting:

Twisting your back while lifting can cause disc herniation and accelerates degeneration of the spine.

Poor Posture:

Poor posture causes significant damage to the vertebrae, back muscles or intervertebral discs, which may translate into chronic lower back pain or severe injury.

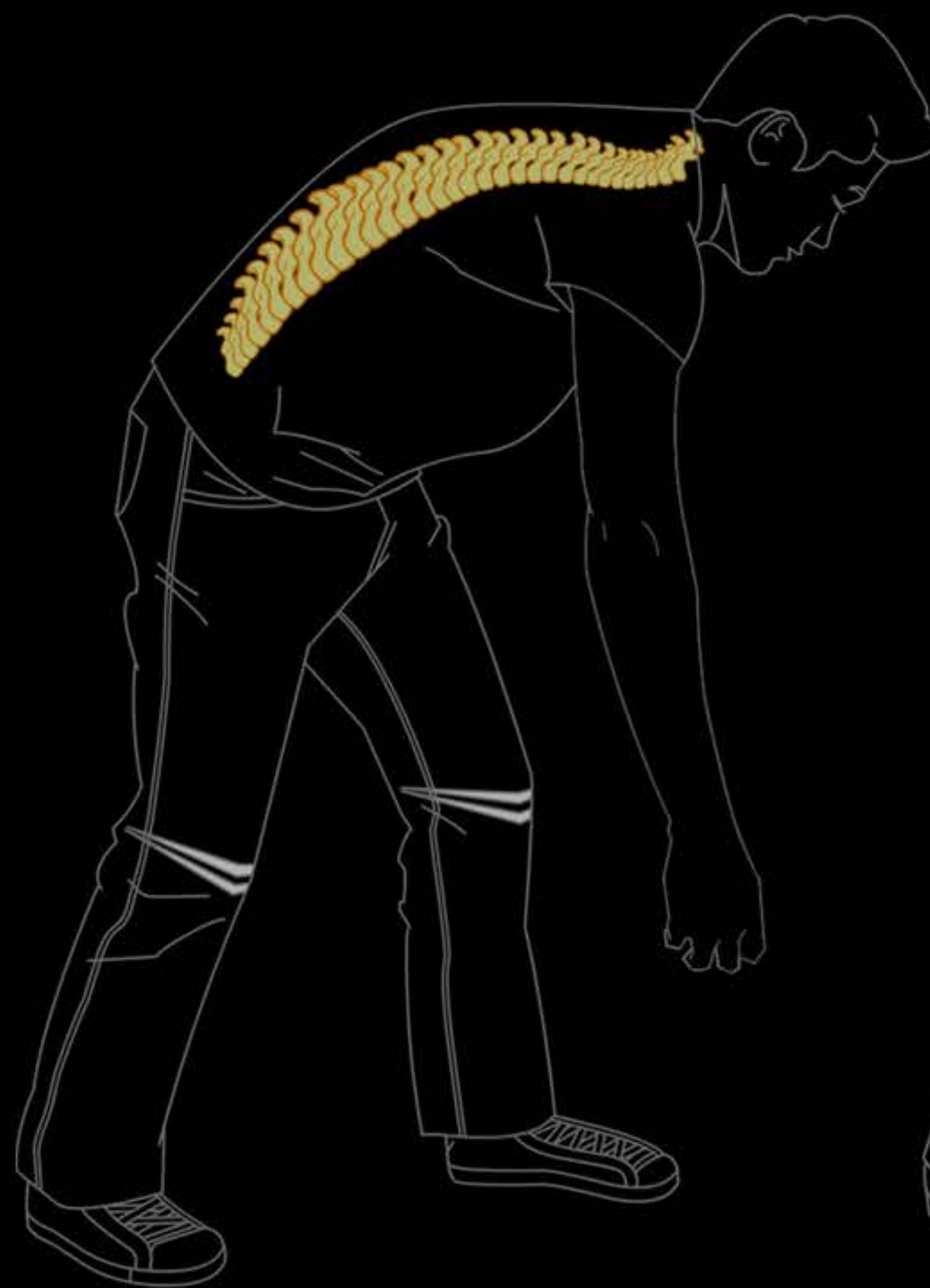
Until the FLx, we had no way of knowing that we had stressed or over-extended our body.

By keeping the lifter in a safe working range, the FLx reduces the risk of injury and increases productivity.





Strength Zone



Risk Zone



Danger Zone



StrongArm FLx Work Zones

Strength Zone - lifters are safest and most balanced. This range keeps proper form, and is the most efficient posture for productivity

Risk Zone - risk of minor injury

Danger Zone - positions deemed by OSHA as unsafe





Range of Motion

Worn like a backpack, the FLx enables the user to perform with full agility and dexterity while making it harder to enter positions of **risk** or **danger**.

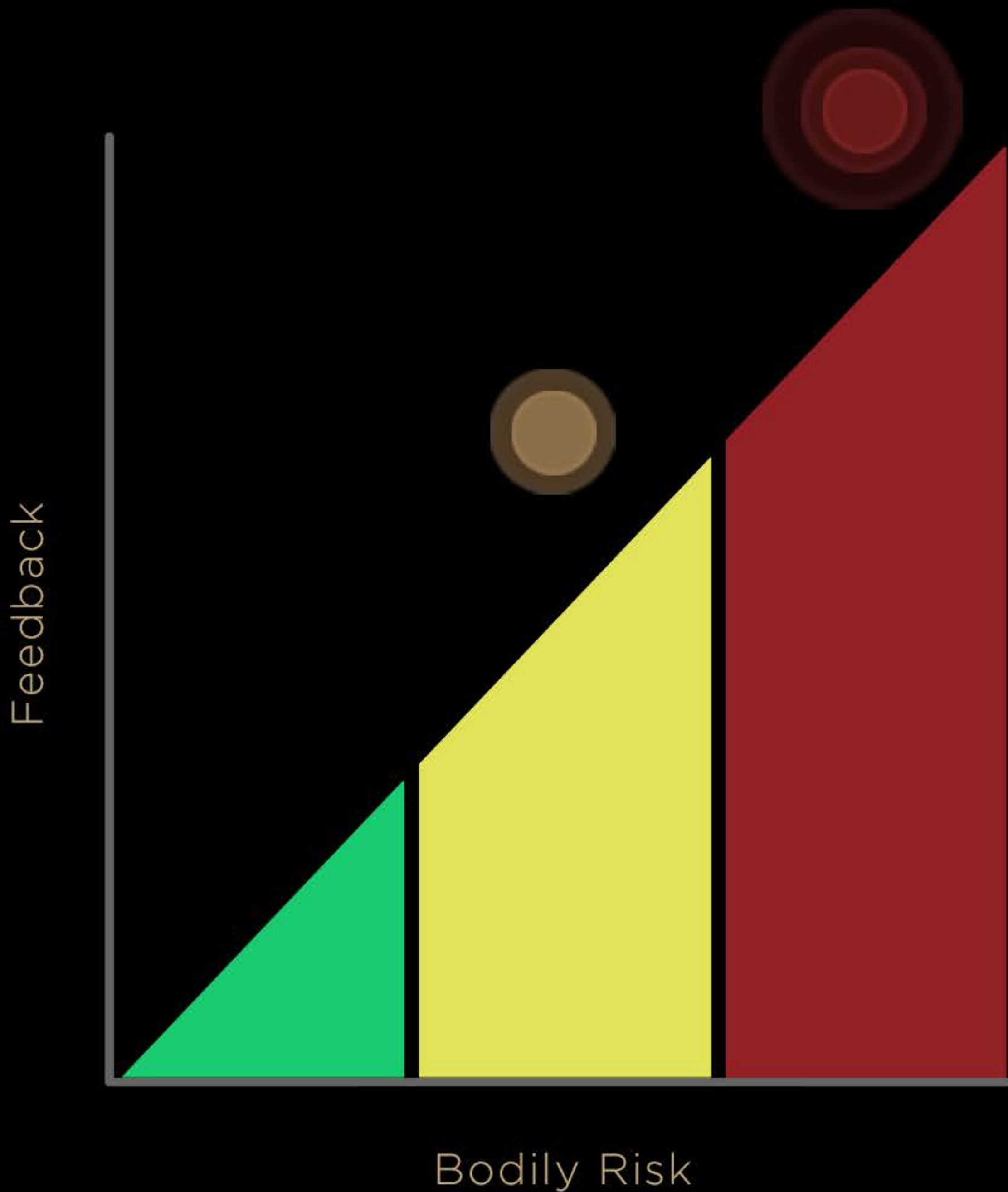


NFS

The FLx helps build better posture through a negative feedback system (NFS). NFS delivers immediate feedback to users in response to body movement and alerts wearers of injury risk.

When the wearer is at risk of injury, the device engages and increases support to gently remind them to adjust their position.

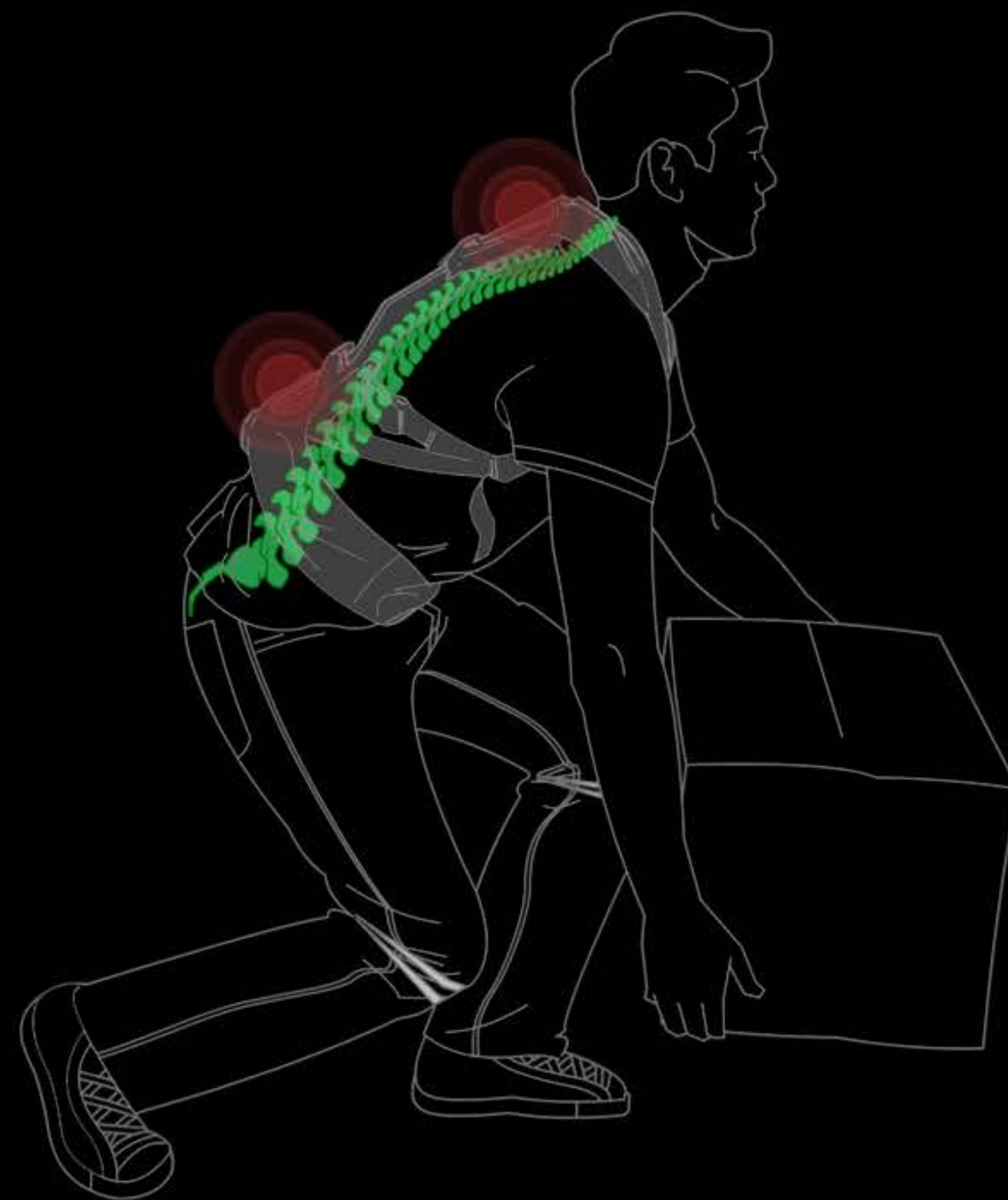


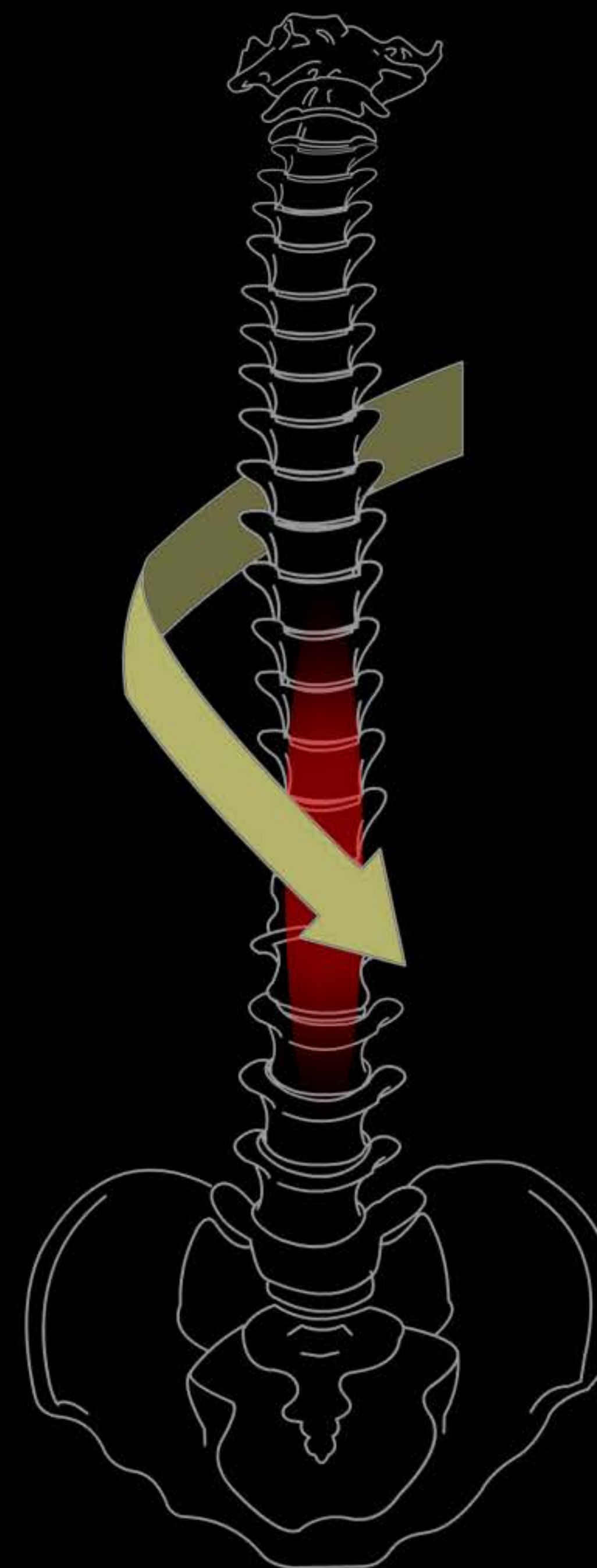
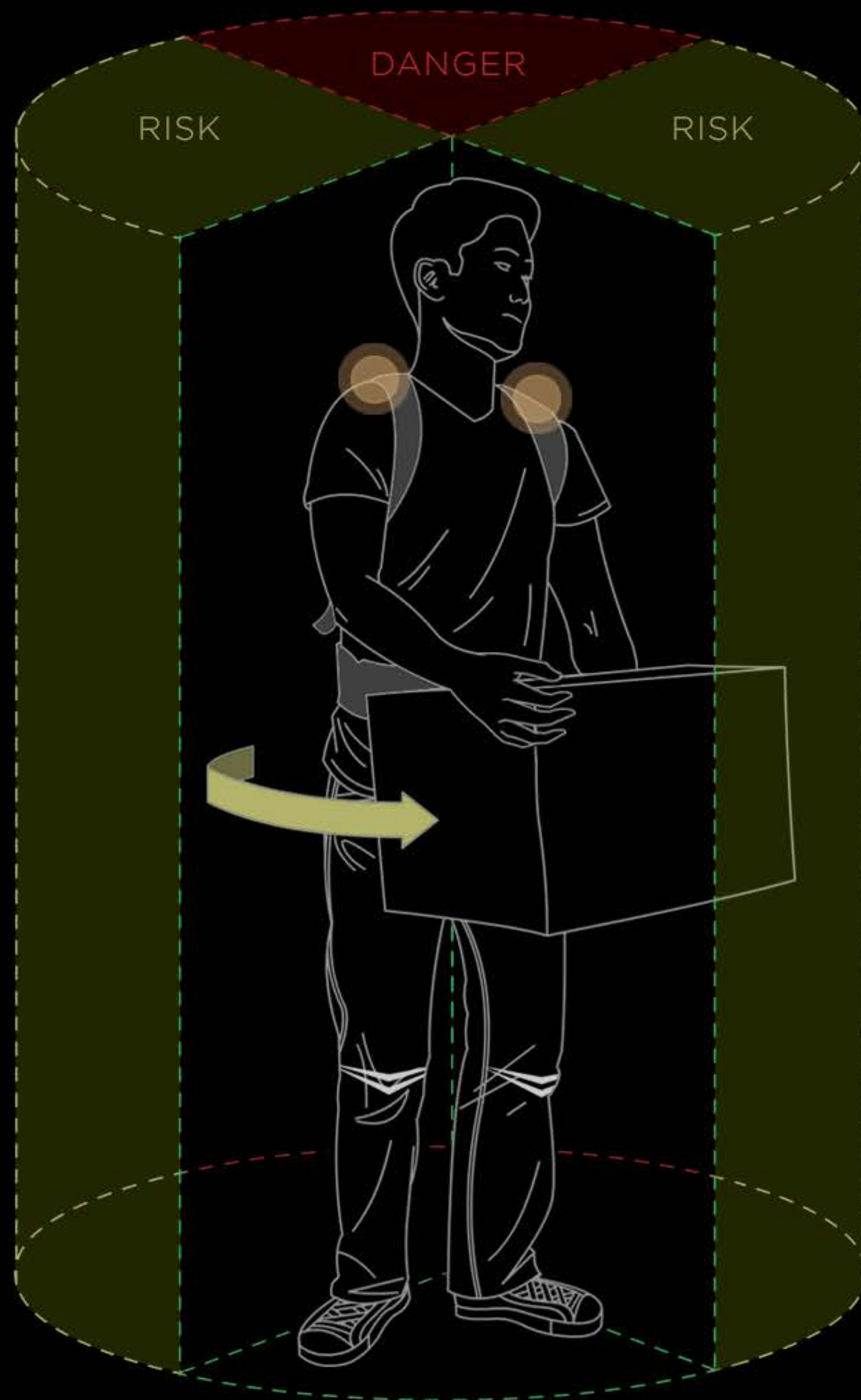


The FLx **negative feedback system** reacts to incorrect posture by providing corrective tactile feedback to the users body.

As bodily risk increases, the support provided by the FLx increases.







The FLx provides support to shoulders
when the user begins to over-rotate into
the Risk and Danger zones.



The Result





Over time, NFS creates muscle memory by conditioning the user to not enter the areas of bodily Risk or Danger.

The result is a strong and smarter workforce by changing worker behavior.

Behavior changes include:

- Pivot steps
- Positioning closer to load
- Bending knees and lifting with legs.

The Flx strengthens the body and serves to boost performance using both the right postures and the right muscle groups.



Thank You. Get Home Safe.

