



WWW.MAXXXFORCE.COM



Patent No. US 12,311,230 B2
Patent No. US 9,707,435 B1



INTRO

MaXXX-Force is a full-body adaptive resistance machine with five pulley and attachment points, enabling all free-weight style exercises in one unit. With customizable pre-workout settings, real-time data, and stored performance results, it offers unmatched versatility, precision, and strength optimization.

Tower Pulley Collar

The tower pulley collar can be set at any height (from the base of the platform to the height of the pullup bar), based on the exercise being performed.

It has an easily interchangeable mount for either a tower pulley swivel, or safety bench support cups.

Middle Pulley

The middle pulley is designed for high-load exercises. Capable of sustainable forces of 3,000+lbs, it can handle even the most elite athletes in the world.

Platform

The platform is equipped with a full 1/2" athletic rubber surface providing a familiar gym-like feel for athletes. The platform houses the internal ropes and pulleys that connect the central drivetrain to the 5 different pulley locations.



Tower Pulley

The tower pulleys (2), swivel automatically and align with any exercise pull direction (Up, Down, In, Out). They can be set at any height from the base of platform to the height of the pullup bar.

Control Station

The control station houses the brains and drive system for the entire machine. A coach is able to provide personalized training from behind the control station using a feathered joystick and coach facing touch screen.

Alternatively, users can pre-program all workout parameters on a portable touchscreen and perform exercises without the need for a coach/trainer present.

Outer Pulley

The outer pulleys (2) can be used simultaneously with a bar/handles, or can be used independently for single side movements.



MaXXX-FORCE vs. OTHER RESISTANCE SYSTEMS

Performance Capabilities	MaXXX-Force	Free-Weights	Fly Wheel	Digital Weights
Provides real-time adaptive resistance based on the user's unique strength curve	✓	✗	✗	✗
Adaptive resistance allows safe, effective unlimited reps at max (or % of) concentric, isometric, and eccentric strength levels	✓	✗	✗	✗
Enables unlimited maximal isometrics at any point in the range of motion	✓	✗	✗	✗
Provides TRUE Eccentric Overloading for every rep	✓	✗	✗	✗
Ability to train at a preset % of the users maximum strength and load curve capacity	✓	✗	✗	✗
Safely train at max intensity year-round without risk of injury	✓	✗	✗	✗
Customizable adaptive programs safely load rehab users, accelerating recovery	✓	✗	✗	✗
Ability to preset ROM and Time Under Tension/Speed to ensure maximal results and safety	✓	✗	✗	✗
Real-time strength curve and performance data	✓	✗	✗	✓
Perform all exercise movements in one compact machine	✓	✗	✗	✓
Meaningful and Adaptative stimulus every second of every rep, Superior gains in 80% less time	✓	✗	✗	✗

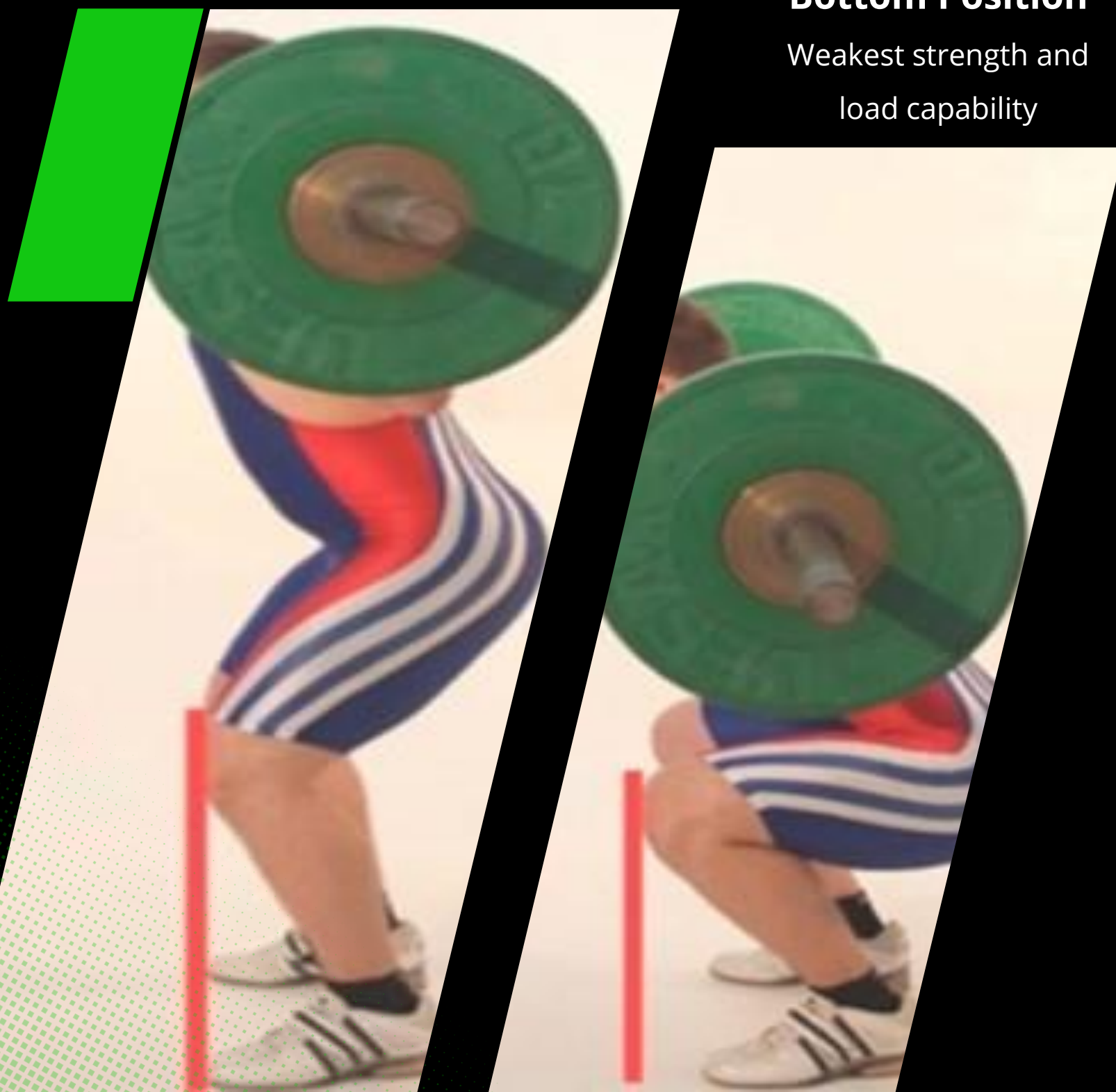


Top Position

Strongest strength and load capability

Bottom Position

Weakest strength and load capability



WHAT IS MAXXX-FORCE?

MaXXX-Force is an adaptive resistance and eccentric overloading machine that loads users according to their real-time strength curve capabilities.

Strength Curve:

The body's strength/load capabilities varies throughout the range of motion (ROM); it's not linear.

ROM Example:

Users are stronger at the top of a squat and weaker at the bottom due to mechanical disadvantages.

Adaptive Resistance & Eccentric Overload:

MaXXX-Force dynamically adjusts resistance based on the user's real-time strength curve.

Eccentric Strength Advantage:

The body is up to 2.5x stronger during the eccentric (lowering) phase than the concentric (lifting) phase.

Eccentric Training Benefits:

Eccentric loading is crucial for building strength, muscle mass, neuromuscular efficiency, and injury prevention.

[Learn More](#)

Current Equipment Limitations:

Traditional equipment cannot safely and efficiently train users to their true eccentric potential.

MaXXX-Force Solution:

Enables safe, efficient, and targeted eccentric training tailored to individual strength curves



WHY MAXXX-FORCE IS THE ULTIMATE RESISTANCE TRAINING MACHINE

Real-Time Adaptive Resistance:

Unlike static-resistance systems (e.g., free weights, flywheels, Tonal, OxeFit), MaXXX-Force adapts resistance in real time to the user's strength curve.

Dynamic Load Adjustment:

Resistance continuously adjusts throughout the entire range of motion and across all contraction phases—concentric, isometric, and eccentric.

Maximized Efficiency:

Every rep and second of training is optimized with the most effective load for the user's current capability.

Custom Intensity:

Users can train at their max or a set percentage of their max across all movement types.

Accelerated Results:

Adaptive, full-spectrum loading leads to faster and more effective strength development.





MAXXX-FORCE PROVIDES TRUE ECCENTRIC OVERLOADING

01

True eccentric overload happens only when external force exceeds the muscle's maximum output—something most current systems fail to achieve.

- Eccentric overload = external force > muscle's max output.
- Flywheels, digital machines, and pulleys often claim to offer eccentric overload.
- These systems only provide slightly higher static loads in the eccentric phase.
- As a result, they do not deliver true eccentric overload stimulation.

02

MaXXX-Force uniquely delivers true eccentric overload by adapting in real time to exceed the user's output, driving superior performance and recovery.

- Real-time adaptation ensures external force exceeds user's effort in the eccentric phase.
- Actively lowers the user regardless of their applied force.
- Maximizes:
 - Strength and force output
 - Type II muscle fiber activation
 - Neural drive and total muscle tension
 - Muscle mass development
- Leads to faster, more effective gains in athletic performance and rehabilitation





01

Set the time under tension for the concentric and eccentric direction

02

Establish a safe and effective Range of Motion (ROM)

03

Adjust the number of reps to be performed

04

Add isometric pauses within the workout for any desired rep

05

Prescribe the desired load curve percentage the user will train at

HOW MAXXX-FORCE WORKS

The MaXXX-Force patented design and technology enables strength coaches, trainers, physical therapists, doctors and users alike, the ability to preset workout parameters based on the user or clients training protocol.





01 MUSCLE RECRUITMENT

02 STRENGTH

03 FORCE OUTPUT

04 MUSCLE GROWTH



MaXXX-Force: The Leading Machine for Performance and Rehabilitation

MaXXX-Force provides real-time adaptive resistance for safe, effective strength, force, and power training across all levels—ideal for both performance and rehab.

- Enables precise, year-round high-intensity workouts without traditional equipment risks.
- Delivers controlled eccentric overload to maximize tension on muscles and connective tissues.
- Enhances force absorption during lengthening, boosting performance and reducing injury risk.
- Supports in-season training, injury prevention, and accelerated rehabilitation.
- Adapts to individual capacity to restore strength, stability, and flexibility efficiently.
- Promotes faster strength gains and long-term joint and muscle health through safe eccentric loading.



MAXXX-FORCE PROVIDES THE MOST EFFICIENT AND EFFECTIVE RESISTANCE IN THE MARKET

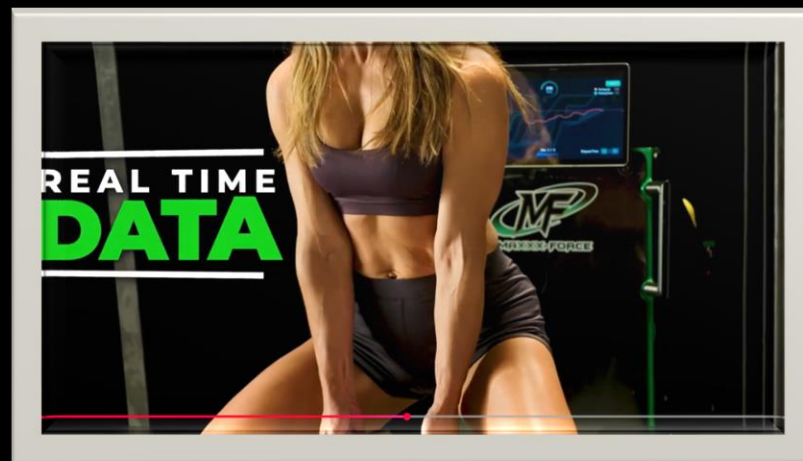


MaXXX-Force offers the most efficient resistance training by isolating all contraction phases and providing adaptive, maximal load stimulation throughout every rep.

- Patented system isolates concentric, isometric, and eccentric phases.
- Enables safe training at max or scaled loads in each phase.
- Provides continuous, adaptive resistance every second of every rep.
- Eliminates wasted effort for more effective workouts.
- Achieves superior results in up to 80% less time

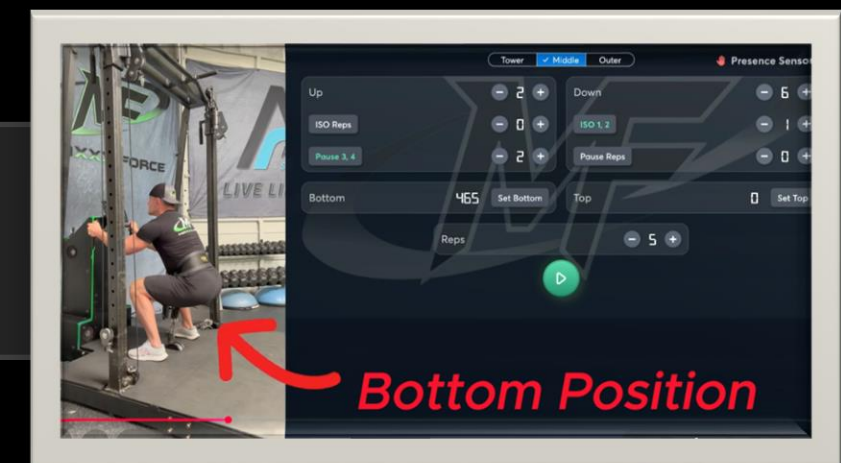


MAXXX-FORCE VIDEO GUIDES ON

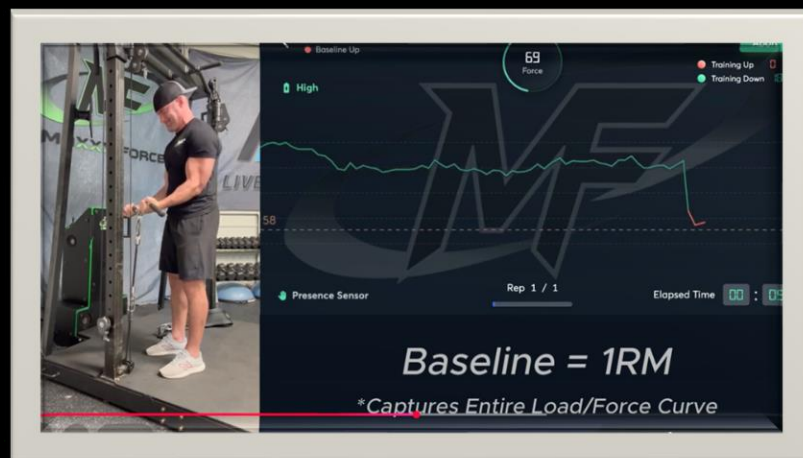


<<< MaXXX Force Intro

Quickstart >>>



<<< Baseline Set



Training Mode >>>





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THANK YOU

In conclusion, MaXXX-Force represents the most advanced and effective strength enhancement technology available. Designed for both athletic performance optimization and rehabilitation, its adaptive resistance system delivers a highly personalized and efficient training experience tailored to the unique needs of the human body.