

General 2020 Cardio Information

Commercial Rating

- All equipment designed and tested to meet EN 957 international test standards for strength and durability
- All equipment is subjected to in-house accelerated laboratory testing for component durability to meet or exceed anticipated lifetime usage in commercial facilities
- A complete list of internal and third-party testing is available upon request

Hardware

- All external bolts, washers, and nuts are zinc-plated or stainless-steel for corrosion resistance

Paint

- All painted surfaces are zinc pre-treated then electrostatically painted (powder coated) and heat cured
- Iced silver finish uses an extra clear coat

Leveling Adjustments (Unique to Matrix)

- With the exception of treadmills, all cardio equipment has top down levelers, allowing service technicians to level equipment without moving it or tipping it for access

Speed, Incline and Resistance Controls

- Performance, Endurance and Lifestyle frames use water-resistant, orange-coated, tactile feedback controls for adjusting speed, resistance and incline
- The shape and size of buttons are similar between treadmills, Ascent Trainers and ClimbMills, reducing the time needed to learn how to use the equipment

Transportation

- All equipment has front roller wheels for easy, convenient portability
- Performance and Endurance cycles have a rear lift handles to assist transportation
- Performance Series ClimbMills have rear locking caster wheels, the Endurance series ClimbMills do not

2020 Treadmill Information

Ultimate Deck System (Unique to Matrix)

- Features a 25 mm / 1" thick, phenolic-coated MDF base material with a proprietary wax treatment on both sides
- Reversible design extends deck life
- Eight maintenance-free elastomers between the deck and frame cushion every step
- Six of the elastomers are circular (donut /toroid) shaped while the two elastomers at the back of the treadmill are solid and cylindrical

- Cushions are designed to provide comfortable shock-absorption during walking or running
- Flat running surface lets users run without searching for optimal cushioning

Performance Series Treadmill Information

Continuous Multi-grip Handlebars (Unique to Matrix)

- Offers multiple hand positions for quick on and off movements during intense workouts
- Users can reach the water-resistant, sealed controls to change speed and incline without going outside their normal range of motion

Cast-aluminum End Caps

- Eliminate a damage point in treadmills caused by moving equipment, regular maintenance and user activity like calf stretches

Dual Service Casters

- Standard on Performance Plus Treadmill, optional on Performance Treadmill
- Eliminates the need to pick up the treadmill to move it
- Casters are engaged by a standard Allen wrench stored under the cord-wrap cover

Frame-side Protective Trim (Unique to Matrix)

- Footrails and lower molded trim strip protect the frame from damage during installation and regular maintenance

Performance Plus Treadmill Information

Pure Stride Cushioning System (Unique to Matrix)

- Provides a solid, shock-absorbing experience comparable to running on a premium-quality track and lasts for up to 100,000 miles with minimal maintenance

PMSM Motor

- Highly efficient (IE4 rating) and powerful, allowing for a 20% incline, and 25 km/h / 16 mph) top speed

Synchronous Response Drive System (Unique to Matrix)

- Offers 2.2 kW of high-efficiency performance for a higher top speed (25 km/h / 16 mph) than industry-standard AC motors while using less power to reduce operating costs

Heavy-duty Lift Motor

- Offers 748 kg / 1,650 lbs. of thrust for smooth, quick adjustments and 20% incline for demanding HIIT workouts and intense group training

Front-mounted Drive System (Unique to Matrix)

- Drive motor, lift motor and key electronic components are located in the front of the treadmill under the motor cover
- Simplifies service and allows for a low step-on height
- Protects key components from sweat and debris

Maximum Weight of 227 kg / 500 lbs.

- Allows members of all sizes run comfortably

Expanded Running Surface

- Available running surface is largest in the industry at 157 x 61 cm / 62" x 24"

Low Step-on Height

- 25 cm / 10.5" is among the lowest of any slat-belt treadmill in the industry

Endurance Series Treadmill Information

Console Options

- Five Universal Consoles, including 2 touchscreen consoles and 3 LED consoles
- Two touchscreens (22" and 16") with wireless charging
- Three LEDs, including an industry-exclusive Premium LED Console

Dynamic Response Drive System

- 4.2 HP drive recalibrates with each footfall for a smoother run

Ultimate Deck System

- Includes a 56 x 152 cm / 22" x 60" running surface

Sealed Tactile Controls

- Durable, sweat-resistant sealed design
- Tactile response makes it easy for users to adjust speed, incline or resistance

Enhanced Serviceability

- Cord management system
- Easy-to-access internal components

Lifestyle Series Treadmill Information

Console Options

- Five Universal Consoles, including 2 touchscreen consoles and 3 LED consoles
- Two touchscreens (22" and 16") with wireless charging
- Three LEDs, including an industry-exclusive Premium LED Console

Ultimate Deck System

- Includes a 56 x 152 cm / 22" x 60" running surface

Dynamic Response Drive System

- 4.2 HP drive recalibrates with each footfall for a smoother run

Comfortable, Convenient Touchpoints

- Crossbar with easy-to-reach, tactile speed and incline controls
- Ergonomically contoured ABS handlebars

Sealed Tactile Controls

- Durable, sweat-resistant sealed design
- Tactile response makes it easy for users to adjust speed, incline or resistance

Enhanced Serviceability

- Cord management system
- Easy-to-access internal components

Endurance Series Information

Console Options

- Five Universal Consoles, including 2 touchscreen consoles and 3 LED consoles

Sealed Tactile Controls

- Durable, sweat-resistant sealed design
- Tactile response makes it easy for users to adjust speed, incline or resistance

Enhanced Serviceability

- Easy-to-access internal components

2020 ClimbMill Information (Performance and Endurance)

EN ISO 20957-8 Certified

- ClimbMill meets regulatory requirement ISO 20957-8
- Includes a frame emergency stop, a handrail emergency stop, and Control Drive clutched drive system that stops the stairs as soon as a fall is detected

Step Positioning Software

- Works with locking staircase to stop rotation at the lowest point possible, making it easier for users to get on and off

Service Panels with Quarter-Turn Fasteners (Unique to Matrix)

- Easy-open design streamlines service and maintenance

Full-wrap Handlebars (Unique to Matrix)

- Provide a variety of hand positions, reducing the chance users will grab the console

Drive System Service Light (Unique to Matrix)

- Makes it easier to identify and service components

Sweat Management System (Unique to Matrix)

- Routes sweat and excess cleaning solution away from sensitive components

Control Zone (Performance Series Only)

- Offers extra security by allowing a trainer to stop the staircase rotation simply by stepping on the center of the platform
- Acts as a step, reducing the height of the first step, making it easier to get on and off

Control Drive (Unique to Matrix)

- Immediately stops ClimbMill if an object pushes against stair rotation

Sealed Motorcycle Drive Chain (Performance Series only)

- More resistant to sweat and cleaning solutions than a standard chain
- Extends maintenance intervals to six months

2020 Ascent Trainer and Suspension Elliptical Information

Smallest Footprint in Industry (Unique to Matrix)

- Front-drive design and patented suspension design offers the smallest footprint in the industry
- Overall length is approximately 40 cm / 16"; 20% shorter than competitive equipment
- Linkage arms and foot pedals do not travel beyond the frame, making room for clearly defined walkways behind and in front of the equipment

Rear User Access

- Rear access (rather than side) eliminates the need to step over any frame or linkage
- Frames can be placed side by side, optimizing floor space
- Approximately 45% narrower than competitive ellipticals, requiring 40% less floor space

Patented Suspension Design

- Patented suspension design with constant rate of acceleration is wheel- and track-free to reduce noise and friction while providing a smooth, consistent feel

Variable Stride (Ascent Trainer only)

- Patented suspension design allows a user to adjust the "incline," increasing stride length and stride (or step-over) height delivering a stair climbing movement with the consistency and smooth feel of our Constant Rate of Acceleration. The Ascent Trainer maintains an elliptical path even when fully inclined as opposed to a shuffle incline.
 - o 20-33 cm / 8-13" Adjustable Stride Height
 - o 51-61 cm / 20-24" Adjustable Stride Length
 - o Low 24 cm / 9.5" Step on Height

Durability

- Controls are completely sealed, making them sweat resistant and durable

Drive Position (Performance Series only)

- Custom fixed handlebar design allows users to lean forward into a more aggressive "drive" position for increased posterior muscle activation

Top-down Levelers (Unique to Matrix)

- Available on all ellipticals, Ascent Trainers, cycles and Performance Series ClimbMills
- Allow for routine adjustment with only one tool and without needing to move the equipment

2020 Cycles Information

Upright Cycle Low Step-over Height

- Frame design offers low, 10" step-over height for easy access

Tool-free Crank Arm Removal

- Unique to Matrix
- Streamlines service and maintenance

Command Seating Position (Unique to Matrix) (Performance Series Hybrid Cycle only)

- Intuitive seat height adjustment and an ergonomic 45-degree angle simplifies finding the correct seat position and allows a user to easily step "over" to begin a workout, enhancing comfort and workout effectiveness

General Legacy Cardio Information

Commercial Rating

- All equipment designed and tested to meet EN 957 international test standards for strength and durability
- All products are further subjected to in-house test accelerated laboratory testing for component durability to meet or exceed anticipated lifetime usage in commercial facilities (A complete list of internal and 3rd party testing is available on request)

Hardware

All external bolts, washers, and nuts are zinc-plated or stainless-steel for corrosion resistance

Paint

- All painted surfaces are zinc pre-treated then electrostatically painted (powder coated) and heat cured
- Iced silver finish uses an extra clear coat

Leveling Adjustments (Unique to Matrix)

- With the exception of treadmills, all cardio equipment has top down levelers, allowing service technicians to level equipment without moving it or tipping it for access

Speed, Incline and Resistance Controls

- 5x and above frames use orange-colored, water-resistant, tactile feedback controls for adjusting speed, resistance and incline
- The shape and size of buttons are similar between treadmills, Ascent Trainers and ClimbMills, reducing the time needed to learn how to use the equipment

Transportation

- All equipment has front roller wheels for easy, convenient portability
- Cycles have a rear lift handles to assist transportation
- 5x ClimbMills have rear locking caster wheels, 3x ClimbMills do not

Legacy Treadmill Information

Ultimate Deck System

- Features a 25 mm / 1" thick, phenolic-coated MDF base material with a proprietary wax treatment on both sides
- Reversible design extends deck life
- Eight maintenance-free elastomers between the deck and frame cushion every step
- Six of the elastomers are circular (donut /toroid) shaped while the two elastomers at the back of the treadmill are solid and cylindrical
- Cushions are maintenance-free and are designed to provide comfortable shock-absorption during walking or running
- Flat running surface lets users run without searching for optimal cushioning

Dynamic Response Drive System (Unique to Matrix)

- Drive system responds immediately to each footfall for smooth, natural feeling
- Motor and motor control electronics continually adjust to the user at any speed or incline, making incline walking or interval running equally smooth

5 mm Socket Head Motor Cover Bolts (Unique to Matrix)

- Allows the motor cover to be removed for regular cleaning and maintenance without damaging the mounting bolts

Removable Cord-wrap Cover (Unique to Matrix)

- Keeps power and data cords organized

T1 / T3 Treadmill Information

T1x Optional Full Handrail

- 50 mm diameter tubing is easy for most any user to grasp
- Handrail extends the full length of the treadmill, so users who need assistance can securely get on, off and support themselves during walking
- Handrail is a low-cost option for T3xh and T3xm Treadmills when only extra handrail length is needed

T3x Handrails

- Custom-molded for comfort

T3xh / T3xm Treadmill Information

Designed for Rehab and Active Aging Environments

- Developed and created with specific features for rehabilitation and physical therapy

Extended Ergonomic Handrails with Neutral Position Angled Grips (Unique to Matrix)

- Neutral-position angled grips offer comfortable and secure hand positions when getting on and off the treadmill
- Angled grip can assist user from both a standing and seated position
- Developed with the input of doctors and physical therapists

One-piece Full Length Handrails (Unique to Matrix)

- Seamless design eliminates gaps for dirt and dust, simplifying cleaning
- The custom shape also assists a user who needs to support themselves during an exercise
- One-piece design gives therapists complete access to the user's legs during therapy

Belt Movement

- Includes forward and reverse belt movement
- Low 0.16 km/h / 0.1 mph start speed in forward and reverse allows users start at a speed right for their abilities
- Low 19 cm / 7.5" step-on height offers easy access

Integrated Frame IR Sensors (Unique to Matrix)

- Only passive IR sensor in the industry that stops the treadmill running belt if an object passes between the sensors, increasing security when the belt is moving in reverse

T3xm Only

Med CE Class I Certified

- Matrix is one of a few global fitness companies to achieve MED CE (or MDD Medical Device Directive) certification. MED CE is a rigorous global standard that incorporates product and manufacturing guidelines, similar to hospital grade medical

Biocompatible Hand grips / Touchpoints

- In accordance with more stringent MED CE standards, handrails and front handlebars materials are

restricted to reduce the risk of harmful reactions in sensitive user populations.

.1mA current leakage

- .1mA current leakage is one of the lowest in the industry; most commercial treadmills are over .5mA and require a separate power isolator to reduce current leakage
- .1mA is consistent with hospital-grade equipment

T5x / T7xe / T7xi Treadmill Information

Exposed Deck Bolts

- Help service technicians by reducing the time required to access and change hardware while servicing the running deck or belt

Neutral Grip with Crossbar Controls

- Neutral hand position is comfortable for users of different heights
- Allow users to make changes while walking and monitoring their heart rate
- Users can change speed and incline without going outside their normal range of motion

Cast-aluminum End Caps

- Eliminates a failure point in treadmills caused by moving equipment, regular maintenance and user activity like calf stretches

Legacy ClimbMill Information

EN ISO 20957-8 Certified

- ClimbMill meets regulatory requirement ISO 20957-8
- Includes a frame emergency stop, a handrail emergency stop, and a clutched drive system that stops the stairs as soon as a fall is detected

Step Positioning Software

- Works together with a Locking Staircase to stop staircase rotation at the lowest point possible, making it easier for a user to get on or off

Service Panels with Quarter-Turn Fasteners (Unique to Matrix)

- Easy-open design streamlines service and maintenance

Full-wrap Handlebars (Unique to Matrix)

- Provide a variety of hand positions, reducing the chance users will grab the console

Drive System Service Light (Unique to Matrix)

- Makes it easier to identify and service components

Sweat Management System (Unique to Matrix)

- Routes sweat and excess cleaning solution away from sensitive components

Control Zone (Performance Series Only)

- Offers extra security by allowing a trainer to stop rotation simply by stepping on the center of the platform
- Acts as a step, reducing height to first step

Sealed Motorcycle Drive Chain (5x only)

- More resistant to sweat and cleaning solutions than a standard chain
- Extends maintenance intervals to six months

Legacy Ascent Trainer and Suspension Elliptical Information

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- Front-drive design and patented suspension design offers the smallest footprint in the industry
- Linkage arms and foot pedals do not travel beyond the frame, making room for clearly defined walkways behind and in front of the equipment

Rear Access

- Rear access (rather than side) eliminates the need to step over any frame or linkage
- Easier for user
- Frames can be placed side by side, optimizing floor space

Patented Suspension Design

- Patented suspension design with constant rate of acceleration is wheel- and track-free to reduce noise and friction while providing a smooth, consistent feel

Variable Stride (Ascent only)

- Patented suspension design allows a user to adjust the “incline”, increasing stride length and stride (or step-over) height delivering a stair climbing movement with the consistency and smooth feel of our Constant Rate of Acceleration
 - o 20-33 cm / 8-13” Adjustable Stride Height
 - o 51-61 cm / 20-24” Adjustable Stride Length

Drive Position (5x only)

- Custom fixed handlebar design allows users to lean forward into a more aggressive “drive” position for increased posterior muscle activation

Low Step-on Height

- Low 24 cm / 9.5” step-on height offers easy access

Legacy Cycles Information**Lowest Step-over Height**

- Upright Cycle frame design offers easy access

Tool-free Crank Arm Removal (Unique to Matrix)

- Streamlines service and maintenance

Command Seating Position (Unique to Matrix) (Hybrid Cycle only)

- Intuitive seat height adjustment simplifies finding the correct seat position and allows a user to easily step “over” to begin a workout, ergonomic 45-degree angle enhances comfort and workout effectiveness