



EXER-FLY

PLATFORM INSTRUCTION MANUAL



ONLINE
DOWNLOAD

V.1.5



Contents

Specifications	Page 3
Safety	Page 4
Introduction	Page 6
Features	Page 7
Safety Features	Page 8
Physio and Rehab	Page 10
Product Overview	Page 11
How To Use Your Exerfly Equipment	Page 13
Attaching the Wheels	Page 18
Using the Second Rope	Page 19
Device Holder	Page 20
Bench Assembly	Page 21
Accessories	Page 23
Exercise Tutorials	Page 28
Troubleshooting	Page 29

Contents

Maintenance	Page 30
Warranty	Page 31
Compliance	Page 32

Specifications

Dimensions

Top: 1300 x 1050mm (51" x 41")
Height: 310mm (13")

Weight

40kg (excl accessories and flywheels)

Overview of Parts:

- Steel shaft
- 3mm powder coated aluminum
- Hybrid ceramic bearings
- Large flywheel (0.1 kg.m²) 5kg
- Medium flywheel (0.05 kg.m²) 3.5kg
- Small flywheel (0.025 kg.m²) 2.5kg
- XSmall flywheel (0.0125 kg.m²) 1.8kg
- Max flywheels: 7 or 0.7 kg.m²
- Rope clamp
- Device Holder
- Nylon & dyneema rope
- Rotational sensor
- Non-slip surface
- Wheels
- Lever to engage/disengage 2nd rope

Accessories

- Squat Harness
- Squat Belt
- Ankle Cuff
- Flywheel Holder
- Flywheel Bag
- Rope Guide
- Bench
- Foot Block
- Long Bar
- Short Bar
- Curl Bar
- Tricep Rope
- Stirrup Grip
- Device Holder

Safety

The output of flywheel training depends on how much energy you put into it, so if you don't move it very quickly then it won't give you much back. In many ways it's self limiting but you should always exercise at an intensity you can manage.

If you haven't done a lot of activity then you may feel quite sore for a few days afterwards as your muscles will not be used to the constant resistance.

- 1 >> Keep away from the spinning flywheel and other moving parts when you or someone is using it.
- 2 >> Start with low inertial flywheels to learn how your body moves through the range of motion with the flywheel.
- 3 >> If you feel pain or dizziness during exercise, stop immediately. Likewise, be mindful when fatigue hits as this can affect balance and uncontrolled body movements. If you have problems with balance make sure someone can support you, or hold on to another fixed object like a wall or broomstick.
- 4 >> Keep children and pets away from the machine when in use.
- 5 >> Always place the equipment on a solid, flat surface.
- 6 >> Don't stop an exercise in the top position.
- 7 >> Don't let the rope clamp hit the equipment, make sure you absorb the load before it hits the equipment.
- 8 >> Make sure the flywheel stops fully before finishing using the equipment.
- 9 >> Always have both feet on the Exerfly Platform when using, unless the equipment is fixed to the ground.

Safety - Motorized

- 1 >> Read the Sensor & App Instructions.
- 2 >> Using the Eccentric boost amplifies the energy of the flywheel in the eccentric phase. Improper use could cause significant injury. Make sure you've had ample warm up and conditioning before attempting to use the motor boost. If this is your first time using the motor boost, always start with a low Eccentric Overload Boost % (eg, 1 - 5%) to get the feeling of what you can handle.
- 3 >> Small flywheels can spin very quickly, so it's actually safer to use large flywheels to start with because they spin more slowly.. Begin with a 1.0 kg.m² inertia (large) flywheel at 1 - 5% overload.
- 4 >> The use of the motor overload is not suitable for people with injuries, unfit, deconditioned or elderly people. The Exerfly Platform is still able to be used without using the motor.
- 5 >> The Exerfly Platform uses an automatic wind-in mechanism to get started when using the motor boost.

Introduction

Overview

The Exerfly Platform flywheel training equipment is a stable and capable piece of strength training equipment built for everything from heavy-duty workouts to rehabilitation. The Exerfly Platform allows users to perform a vast range of exercises in a small footprint, and caters to a wide range of users from elite athletes and teams, to intermediate users wanting to build on their health and fitness, and can also assist in rehabilitation.

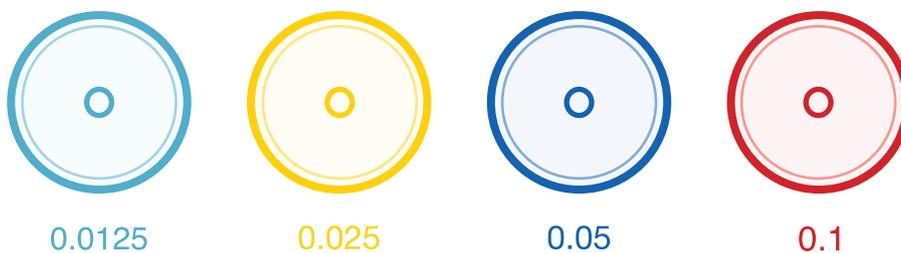
Using your muscles, you accelerate and decelerate flywheels on the Exerfly equipment to stimulate your muscles and nervous system, resulting in increased strength and muscle activation over time.

Flywheels

The flywheels are available in four sizes - very small, small, medium and large. Small flywheels are easier to move and spin faster, whereas large flywheels are harder to move and spin slower but have more energy and momentum and are more difficult to stop. You can stack the flywheels to make your workouts more difficult as you progress.

If you are first starting out with flywheel training, then start with smaller flywheels while you become familiar with the movements. Although, larger muscles like the leg muscles can handle extra resistance with larger flywheels.

Mounting and removing flywheels is easy, just unscrew the end cap and slot a flywheel on to the square shaft. Then screw the end cap on. You can optionally use the end cap tool to tighten or loosen the grip on the flywheels.



Features



Eccentric Loading

Your muscles are about 40% stronger in the eccentric phase (sometimes called negative phase) of a movement. This is when your muscles are undergoing lengthening. It's difficult to train your muscles eccentrically with traditional gym equipment because the weights always weigh the same and people tend to let the weights drop with gravity. Often a 2nd person is required to add force to the eccentric movement.

The benefits of eccentric training are well understood, and the Exerfly equipment makes it easy to train your muscles eccentrically. If you can speed up the movement in the concentric phase of a movement, you'll produce a lot of energy in the flywheel, and decelerate in a shorter amount of time, then you'll experience an eccentric overload.

Eccentric overload training is very beneficial but also very fatiguing, so you will likely exhibit muscle soreness over a few days if you are not used to it. This is called delayed onset muscle soreness (DOMS).



Range of Exercises

One of the main features of the Exerfly Platform is it allows a huge range of exercises at different intensities. Because the resistance is variable based on how many flywheels you use and how hard you pull, you can get a range of muscle stimulus to suit professional athletes and teams, or more pedestrian movements and rehab. The Exerfly Platform also allows users to do 2-handed exercises such as bench press, incline bench press, hip thrusts and many more.



Ergonomics

The Exerfly Squat Harness gives users the confidence to approach squats with ease. The Exerfly Squat Harness spreads the load across the shoulders and lower back so it's much more comfortable to use than a traditional squat bar and perfect for people who find squats difficult due to back problems. The squat belt is an even better choice for people who have back problems as it only loads the hips when doing squat exercises.



Noise Reduction

Usage of the Exerfly Platform is virtually silent, so it's also perfect for home or office use. Additionally, there's no need to constantly change weights, or risk dropping weights and making a lot of noise. Some users may find the flywheels make a noise when changing direction, to remedy this make sure the end cap is tightened by using the end cap tool.

Safety Features



At Exerfly, we believe that prevention is key. That's why we've engineered a product with a strong focus on safety and injury prevention that maximizes effort and results.

Continuous Motion



Flywheel training provides a constant, smooth resistance for muscles throughout the entire range of movement of an exercise. The motion of pulling a flywheel is incredibly fluid and smooth, with no snap between the concentric and eccentric phases of motion, meaning less risk of injury to the athlete.

Physio and Rehab



Exerfly's reactive resistance training methods make it perfect for use in rehab and physio, as athletes can vary the resistance from rep to rep as needed. Its smooth motions make it the ideal option for slowly rebuilding muscle according to the needs of the individual user.

Self-Managed Resistance



Users are able to manage their own resistance load in a safe range of motion and determine their own force output, meaning the resistance is based directly on the expended effort of the athlete. This allows the athlete to warm up at their own pace, then slowly increase their effort while the machine adapts to their movements, as opposed to conventional weight training with static loads unable to adapt and respond to the athlete's needs.

Reduced Risk of Injury



A recent study of flywheel training shows that adding a weekly eccentric overload squat training to a regular basketball and volleyball exercise routine enhanced lower limb muscle power without triggering patellar tendon complaints. Another study also showed that football players participating in eccentric overload training just 1-2 times a week were significantly lower risk for hamstring injuries.

Safety Features



Constant Tension

The constant tension and emphasis in the eccentric phase of the exercise adapts muscles for power and speed, and helps reduce the likelihood injury. Exerfly mimics natural sports movements, meaning the athlete is less likely to injure themselves both on and off the machine.



Recovery From Injuries

Exerfly's carefully engineered design makes it the perfect tool for recovery. Whether recovering from surgery, when atrophy and loss of muscle strength occurs rapidly, in early rehabilitation and strength training, or in late-stage rehabilitation of musculoskeletal injuries, Flywheel training addresses both strength and power and can be used in most stages of rehabilitation.

Studies show that Eccentric training for injured tendons leads to a reduction in pain, decreased stiffness in the tendon, increased neovascularization, enhanced neuroplasticity, and increased shielding of muscles.

Physio and Rehab



Adaptive Resistance for Recovery

With Exerfly flywheel training, resistance is based on the inertia of the flywheel and the input force of the athlete's expended effort. This means the machine adapts to the needs and capabilities of the individual athlete, whether that be intense, intermediate, or recovery. As a reactive and responsive piece of equipment, Exerfly offers a better form of recovery than static, conventional weights that do not adapt to the individual's performance. It allows the athlete to ease into the exercise at their own pace, lessening or challenging the resistance as needed.



Preserve Joint Health and Prevent Injury

Lower body eccentric training using the Exerfly can be performed with a harness. This reduces injury risk by distributing the load evenly across the shoulders and lower back throughout the movement, reducing strain commonly experienced by the lower back in exercises such as weighted squats.



Space Efficient

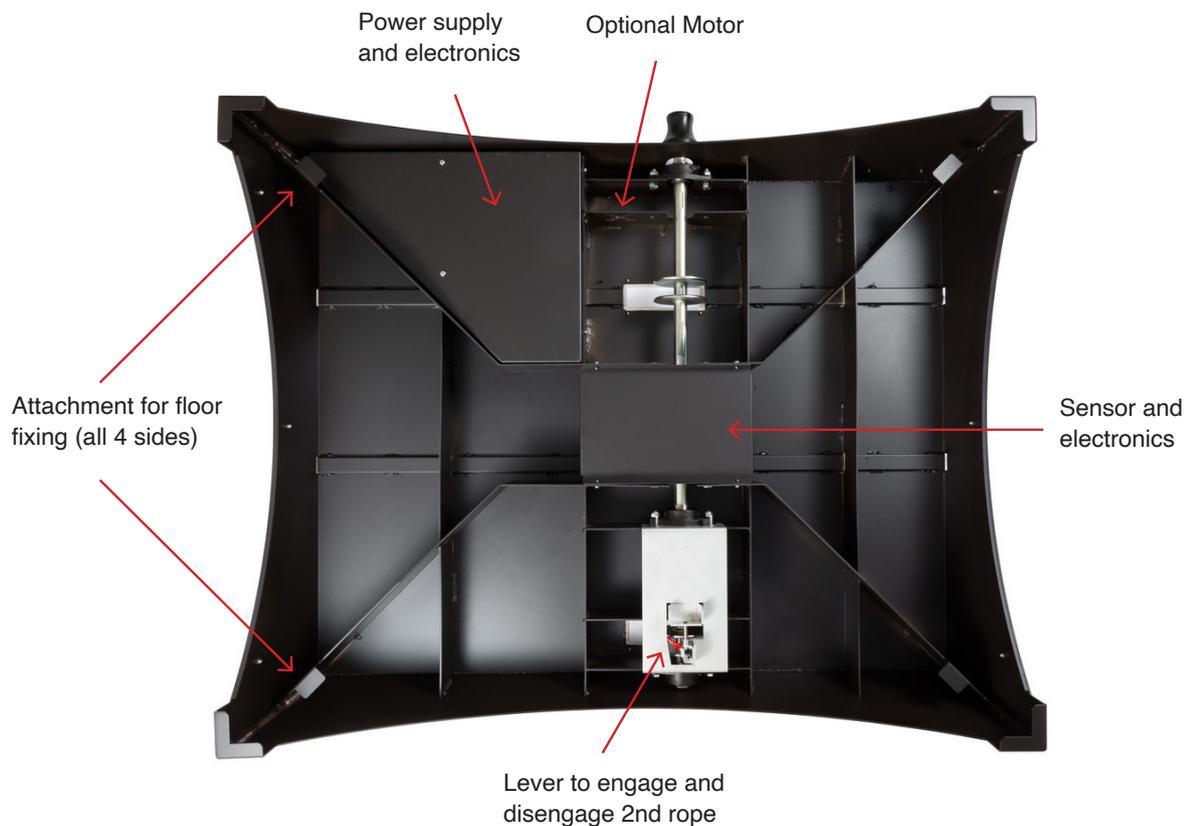
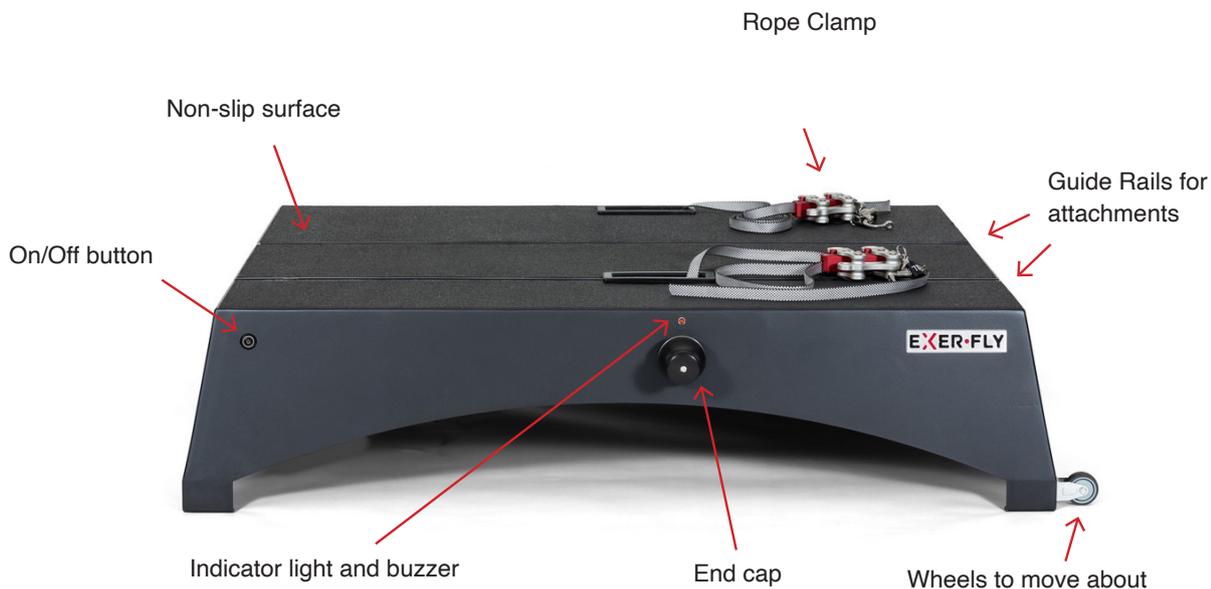
The compact size of the Exerfly also means it is ideal for office or home use, eliminating the need for gyms or large training spaces in the workplace. It is portable and easily maneuverable, fitting neatly into small office spaces without compromising on value.



Rehabilitation After Injury

Because of its low-impact nature, Exerfly training can effectively aid rehabilitation after injury. A crucial part of Anterior Cruciate Ligament (ACL) rehabilitation focuses on knee control and landing form, which is best rebuilt through eccentric training. By applying resistance throughout the entire range of movement, the muscle gains strength through this entire range as well, allowing for more force without the heavyweight and stress. For upper body injuries, for example arm injuries, attachments such as the squat harness can be attached so the athlete is not totally restricted by their inability to hold heavy weights.

Product Overview





Product Overview



End Cap

How To Use Your Exerfly Equipment

Now that you have assembled your Exerfly Equipment, you need to learn how to use it properly. If at any time you have questions or are unsure about how to use the equipment please book an appointment to talk to a specialist.



Calendly Support

<https://calendly.com/exerfly-support/15min>

SCAN ME

IMPORTANT!

One of the fundamental ideas around flywheel training is to use your muscles to absorb the force in the downward or winding in phase of a movement. Therefore, make sure you absorb the force when the rope is being wound in so that the rope clamp doesn't hit the Exerfly equipment as this can cause damage to the device.

Foot Placement

Feet will be placed differently according to which exercise you are doing. If one foot is placed on the ground depending on the exercise, then the Platform should be weighed down by weights, someone else standing on it or attached to the floor with the ground attachment kit.

Attach the Rope Clamp

The rope clamp attaches to the squat harness, squat belt, hand grips, bars and most other gym accessories. Make sure the shackle on top of the rope clamp is properly closed when using the equipment. The rope clamp tightens when it's under tension and you use your hands to release it and move it to a different position on the rope.

Rope Clamp
How-To Video



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How To Use Your Exerfly Equipment

Selecting Flywheels

Each flywheel has a different inertia value. The larger flywheels have higher inertia and take more muscular force to spin and build momentum and again require more muscular force to stop. Smaller flywheels have lower inertia and spin faster.

With the Exerfly Equipment you can combine flywheels to give you more inertia, up to a maximum of 7 flywheels.



0.0125

Small flywheels are useful for light rehab movements.



0.025

Medium flywheels are good for starting out and for arm exercises.



0.05

Large flywheels are good for leg exercises.



0.1

To begin with, select a medium flywheel and get used to the movement and feel as it's slightly different to traditional equipment due to the constant force. For more information see the Workout Zones section below.

Workout Zones

For beginners or users trying new exercises, you should use small-medium sized flywheels and low intensity to adjust to the feeling of the exercise. It's easier to correct technique at lower speeds and intensity with smaller flywheels, and then increase the flywheel inertia and intensity.

Follow these as guides for working out to get the most out of your exercise regime.

Warm Up	Low to medium inertia with low intensity
Improving Technique	Medium inertia with low intensity
Power	Low inertia with max intensity
Strength	High inertia with medium/high intensity
Eccentric Overload	See 'Other Movements' below
Isometric	See 'Other Movements' below

How To Use Your Exerfly Equipment

Using the Harness

Make sure the harness fits well and is not too loose. The shoulder pads should not slip down.

- 1 Tighten the horizontal straps with each buckle on the front.
- 2 Attach the rope clamp shackle to the two D-rings at the bottom of the harness.
- 3 Adjust the rope clamp along the rope to reach a desired height so that the rope becomes tight at the top of an exercise.

Beginners/Rehab:

The top position of an exercise should be just before all your active body joints are fully extended.

Experienced Users:

Depending on your focus, there can be some slack in the top position but be aware that there may be a jolt when the movement switches to going down. Most users prefer to have time under tension and keep the rope tight at the top of the exercise.

Slightly bend your knees and start to spin the flywheel left or right with your hand or foot so it winds in the rope so you're at the lower point of a squat. Next, accelerate the flywheel by starting to move upwards in the exercise. Keep moving with the exercise up and down and go with the movement of the flywheel to avoid any rests inbetween.

You should reach your desired training intensity after 2-4 reps of spinning the flywheel, and complete 6-12 reps in your set according to your training methods.

To stop the flywheel, decelerate the flywheel by slowing down your movement and stopping at the bottom of the movement. Slowly return to the start position and make sure the flywheel stops completely. Detach the rope clamp from the harness, step off the equipment and have a rest before the next exercise.

Squat Harness
Example Video



How To Use Your Exerfly Equipment

Arm and Shoulder Workouts

- 1 Attach the rope clamp shackle to the stirrup handle or bar.
- 2 Adjust the rope clamp along the rope to reach a desired height so that the rope becomes tight at the top of an exercise.
- 3 Start to spin the flywheel left or right with your hand or foot so it winds in the rope so your arm(s) are at the lower point of the exercise. Next, accelerate the flywheel by starting to move your arms in the exercise. Keep moving with the exercise up and down and go with the movement of the flywheel to avoid any rests in between.
You should reach your desired training intensity after 2-4 reps of spinning the flywheel, and complete 6-12 reps in your set according to your training methods.

To stop the flywheel, decelerate the flywheel by slowing down your movement and stopping at the bottom of the movement. Slowly return to the start position and make sure the flywheel stops completely. Detach the rope clamp if necessary, step off the equipment and have a rest before the next exercise.

Exercise
Example Video



Recording Workout Stats / Metrics

If your Exerfly equipment features a sensor, you can get workout statistics for each rep and exercise to display on a mobile device or computer so you can track your progress over time. Please see the Exerfly Sensor manual to connect the sensor to your device.

Online Platform
Sensor Manual



How To Use Your Exerfly Equipment

Other Movements

One of the benefits of using Exerfly Equipment is that the range of exercises you can do is almost unlimited. Additionally, you can achieve other techniques such as isometric exercises and eccentric overload.

Isometric - Used to maintain strength. The muscle doesn't move much in these exercises. Use a partner to hold the flywheel from moving while you exert maximum pull on the rope.

Exercise
Example Video



Eccentric Overload - In the eccentric phase of a movement, your muscles are up to 40% stronger so being able to overload your muscles in this phase can bring benefits to your strength and rehab that are difficult or impossible to achieve with traditional equipment. Use a partner or your legs to assist in speeding up the concentric phase of a movement so the corresponding eccentric phase is overloaded.

Exercise
Example Video



If your Exerfly Platform came with the motorized technology, you can select how much eccentric overload to include in your reps.

Exercise
Example Video



Using the Second Rope

Using the 2nd Rope

To use the 2nd rope, move the lever under the Exerfly Platform forward. To engage both ropes, they will both need to be facing upwards as it only locks in one position.



2nd rope engaged



2nd rope disengaged

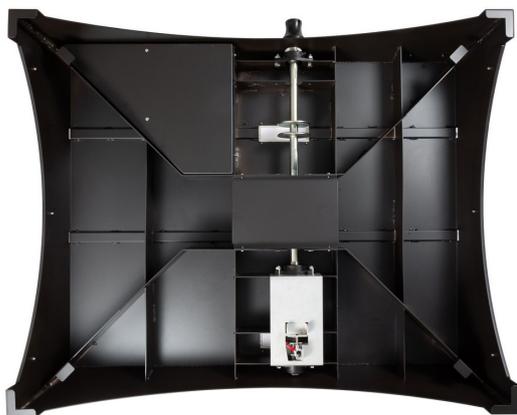
Using two ropes together lets a user complete exercises like the bench press and hip thrust. As with all exercises with the Exerfly equipment, you need to start in the position where the exercise finishes for each rep.

For bench press, use the rope clamp to set one arm at the correct length along the rope - imagine you're using a bar with weights and each rep finishes at the top, that's where you set your arm length. Then, using the other rope clamp, set the other arm to the correct length. You can now begin the exercise by moving the flywheel with your foot to get it moving, your arm, or ask another person, or use the motorized windup feature if the platform includes this.

Attaching the Wheels

The Platform comes fully assembled and ready to use, except for the wheels which can be added on if needed. The two wheels should be added to the side closest to the shaft. This will make it the easiest to lift the other end and move the platform around.

- 1 Turn the platform upside down.



- 2 Using the supplied tools (a cross head screwdriver and a hex head screwdriver) use the 4 bolts and nuts to fix the wheel to the 4 bolt holes. The cross head screw driver is really only used to hold the bolt head from turning, as it will be much easier to turn the nut given the tight space.



Device Holder

Device Holder

A flexible pole that holds the user's device at any desired level. This allows you to control the app during your workout. To browse our selection of tablets online, scan the QR code below.



Attaching the Device Holder

- 1 Remove the small black button from above the Exerfly plate and insert the bottom of the Device Holder.



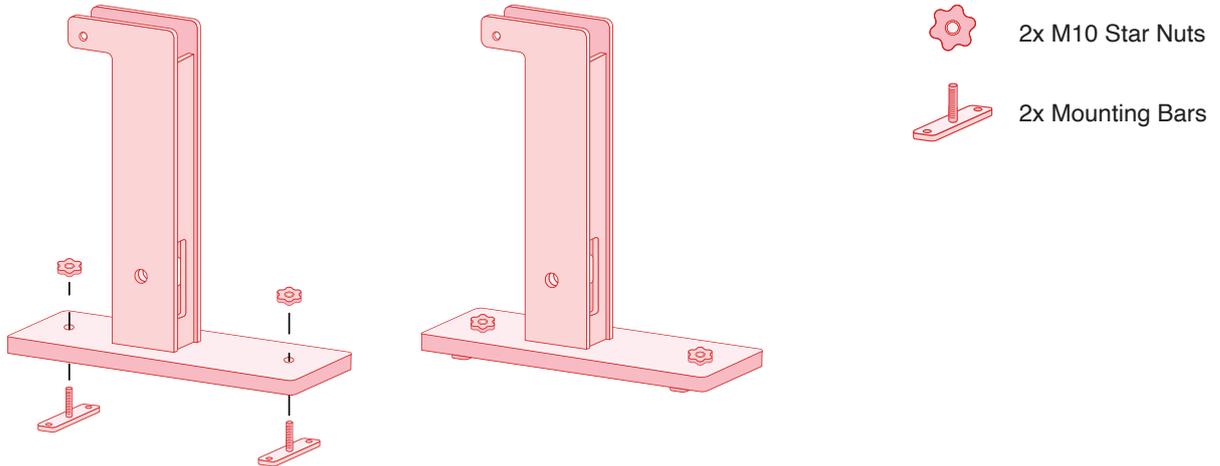
[exerflysport.com](https://www.exerflysport.com)

- 2 From underneath the Platform, secure the Device Holder by tightening the washer and wingnut onto the screw end.



Bench Assembly

1 Fasten the 2x Mounting Bars to the bottom of the Bench Post.

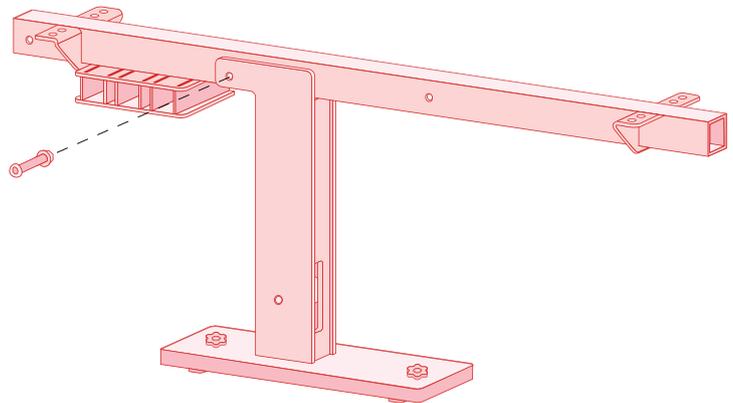


2 Secure the Seat Beam to the Bench Post.

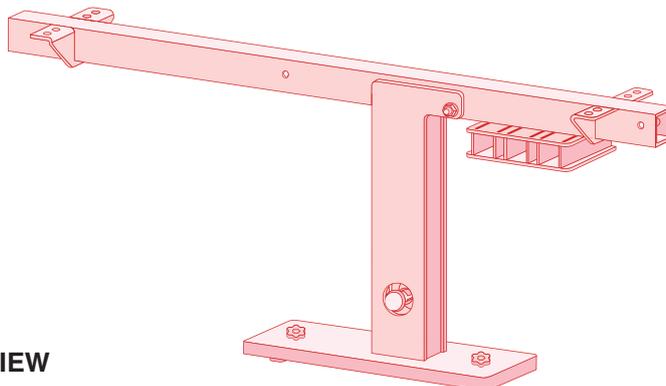
 1x M10x85 Button Head Screw

 1x M10 Flat Washer

 1x M10 Nyloc Nut



FRONT VIEW

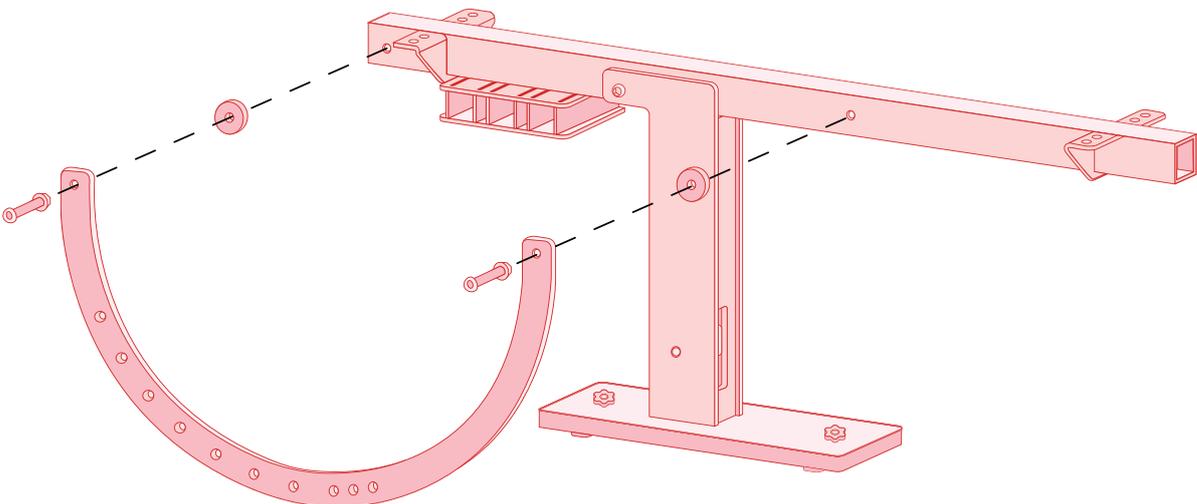


BACK VIEW

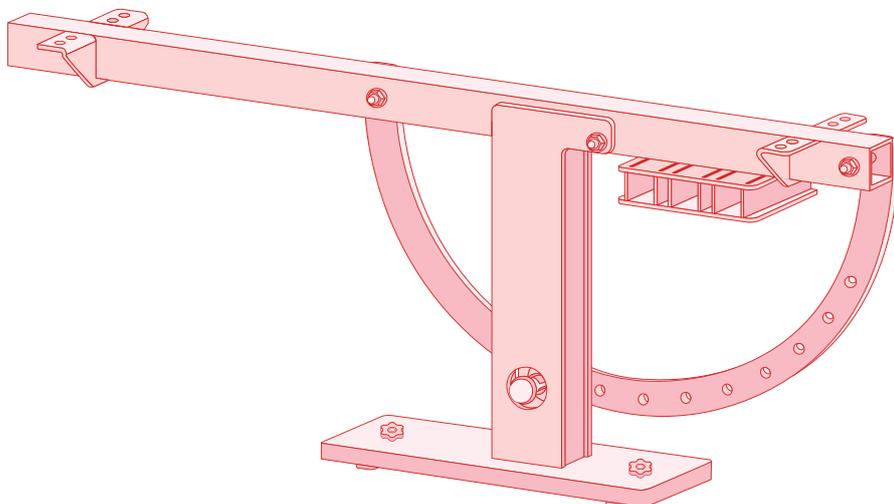
Bench Assembly

3 Fit the Tilt Bar to the Seat Beam.

-  2x M10x85 Button Head Screw
-  2x M10 Flat Washer
-  2x M10 Nyloc Nut
-  2x M10 Nyloc Nut



FRONT VIEW



BACK VIEW



Accessories

Carabiner

Useful when doing rotational or horizontal exercises.



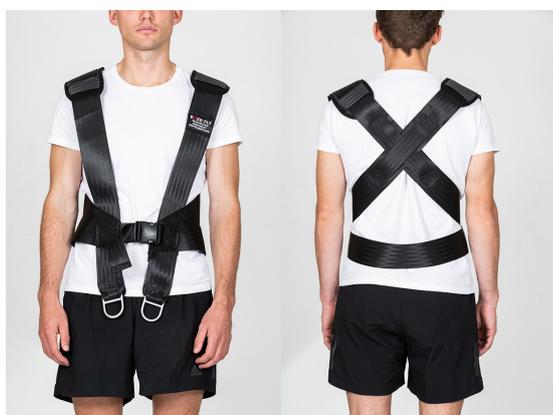
End Cap Tool

Some users may find the flywheels make a noise when changing direction, to remedy this make sure the end cap is tightened by using the end cap tool.



Squat Harness

The Exerfly squat harness gives users the confidence to approach squats with ease. The Exerfly squat harness spreads the load across the shoulders and lower back so it's much more comfortable to use.



Squat Harness
Example Video



If you need a different sized harness, please reach out to us at: sales@exerflysport.com

Accessories

Short Bar

The short bar enables exercises like hip thrusts where the bar fits across hips.



Short Bar
Example Video:



SCAN ME

Long Bar

The long bar enables exercises like bench press, with 2 ropes, and rotational exercises using one rope.



Long Bar
Example Video:



SCAN ME

Accessories (available for purchase)

Exerfly Bench

The Bench lets you easily do exercises like bench press, incline bench press, flys, hip thrusts, bulgarian squats and other exercises. It even inclines to a vertical seat. The Bench slides on in any direction on the Platform.

Exerfly Bench
Example Video:



SCAN ME



Foot Block

Enables users to do lateral leg exercises for those sports which require change of direction. Also useful for glute activation and elevation of the foot for calf raises.

Foot Block
Example Video:



SCAN ME



Accessories (available for purchase)

Stirrup Handle

The Stirrup Handle is a hand grip which can be attached to the rope clamp for single arm workouts, or used in tandem for exercises like bench press.



Stirrup Handle
Example Video:



Rope Guide

Allows users to do horizontal exercises like rowing, rotational exercises and hip exercises. When using, position the rope guide close enough to where the rope comes out to avoid wearing down the protective rubber.



Rope Guide
Example Video:



Curl Bar

The curl bar is used for arm exercises like bicep curls, high pulls and dead lifts. Grip areas angled for optimal comfort when performing exercises.



Curl Bar
Example Video:

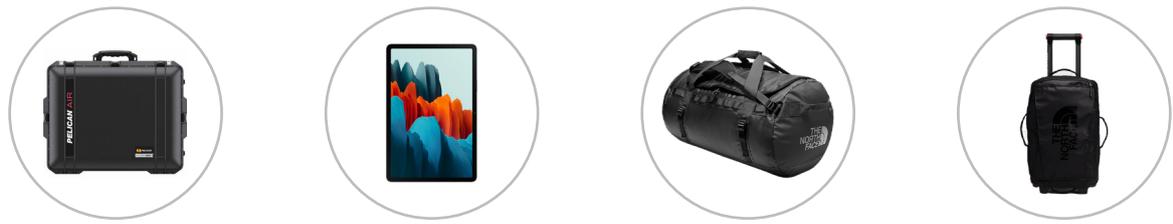


Accessories (available for purchase)

Scan the QR below and visit the website to view our full range of accessories.



Further accessories such as tablets and carry cases are available from our online shop. To browse our selection of these and other accessories, please scan the QR below.



exerflysport.com



Exercise Tutorials

Calf Raises

An exercise targeting the calf muscle, using the foot block, raise the heels off the block and lower again.



Lateral Side Lunge

Brace one foot on the foot block, the other on the ground. Drive through the heel on the block to bring yourself back to your starting position.



Incline Fly

Set your bench up at an incline of around 30°. Then lie back and perform the fly as you would with a flat bench.



Split Squats

Perform split squats by placing a single leg in front of the other and carefully lowering your body.



Bicep Curls

Standing shoulder width apart, pull the bar up to the chest. Keep elbows pinned to the sides and lower down to straighten.



For more exercise tutorials and how-to videos, visit the **Exerfly YouTube** channel.



SCAN ME

Troubleshooting

- Q.** The flywheel makes a clunking sound when it changes direction.
- A.** Make sure the end cap is on tight. If necessary, use the end cap tool to tighten the end cap to keep the flywheels on securely. This will prevent the flywheels making any noise when changing direction. The end cap tool can also be used to loosen the end cap if it proves difficult to loosen.

Add/Change
Flywheels How-To



For any questions about the app or the equipment,
please get in touch with us at: support@exerflysport.com



Or make an appointment via Calendly:
<https://calendly.com/exerfly-support/15min>



Maintenance

Bearings

These are ceramic bearings so require little maintenance but a spray of WD-40/CRC or similar every 6 months can help with smooth running.

Webbing / Rope

The rope is very strong and wear resistant, but over a long period of time you may see wear and tear. To replace the rope, follow the QR link to the video tutorial.

Replace Rope
example video:



Rope Clamp

If after repeated use the rope clamp doesn't grip as much, use a few swipes with some light sandpaper on the rubber surface to restore it.

Warranty

Exceptions

Parts through normal wear and tear such as belts, webbing, non-slip surface and other parts subject to wear. Defects in coatings. Additionally, where the customer has misused or abused the product, repair or service was not done in accordance with Exerfly Sport instructions, OEM products were not used, use of the product continued after the defect was first noticed.

Support

Exerfly Sport technicians will attempt to rectify the defect by any methods available, such as Phone, Email, Instant Messaging, video, service center and if needed, will ship a replacement or replacement part, subject to availability within a reasonable time after the buyer has contacted Exerfly Sport.

Transportation

Customer will ship or bring the product to/from a local service center at their expense and risk.

Limitation of Liability

The customer is not entitled to compensation for personal injury or property damage.



2 Years

Warranty from the date of purchase.



30 Days

Money-back guarantee



Free

Shipping and taxes

Statement of Compliance

Exerfly Sport Limited hereby confirms that the following product manufactured by Exerfly Sport Limited are in compliance with EU Directives.

2014/53/EU on Radio Equipment

2014/30/EU on electromagnetic compatibility

2011/65/EU on Restriction of hazardous substances in electrical and electronic equipment

2014/35/EU on Low Voltage

2006/42/EC on Machinery

Description of goods:

Exerfly Platform

Exerfly Platform with motor option

Exerfly Portable

Exerfly Rack Mount

Exerfly Rack Mount with motor option

All Exerfly Accessories.



Exerfly Sport Limited, 67 Halton Street, Christchurch 8052, New Zealand.