



CLARK TYRE TRACKS

Heavy Duty Tracks for Skidders, Forwarders and
Harvesters

 **West-Trak**
UNRIVALLED STRENGTH

CLARK TRACKS
high performance for maximum work life

0800 654 323 www.west-trak.co.nz



Multi-Terrain



Demanding



Flotation

ENGINEERED ON EXPERIENCE, BUILT WITH PRIDE

Welcome

Clark Tracks Ltd specialize in developing and manufacturing forest machine tracks to suit almost all Cut-to-length machines and Skidders. Our company can supply tracks in various sizes and designs to suit virtually all terrain, all climates and all machine types.

This brochure has been collated to offer assistance, both in track selection and in the use of our tracks. The information provided will help you to achieve maximum performance as well as trouble free operation throughout the working life of your tracks.

Stewart Kelly
Director

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CLARK TRACKS™

high performance for maximum work life



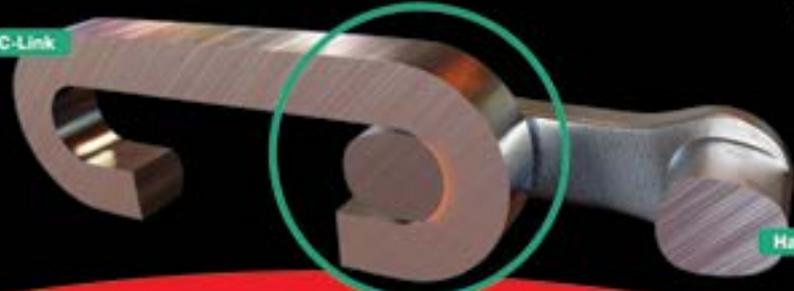
Haggis Ultra Link

TRACK LIFE EXTENDER

HAGGIS LINK INSTALLED

- Bearing surfaces matched
- Maximum contact area
- Reduced contact pressure
- Reduced wear
- Protects C-Link from premature wear
- Less maintenance and downtime as less re-tensioning and adjustments are required
- Specially designed side flanges inhibit link twisting.

C-Link



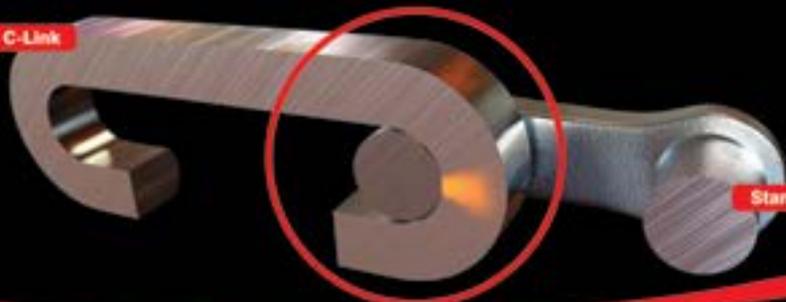
Haggis Link

Large Contact area
Reduced pressure

STANDARD TRACK LINK

- Contact surfaces mismatched
- Smaller contact area
- High pressure on contact surface
- High initial wear rate to C-Link & solid link
- Re-tensioning and adjustment frequently required during bedding in period.

C-Link



Standard, Round Pin, Link

Small Contact area
High pressure

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CLARK TRACKS™

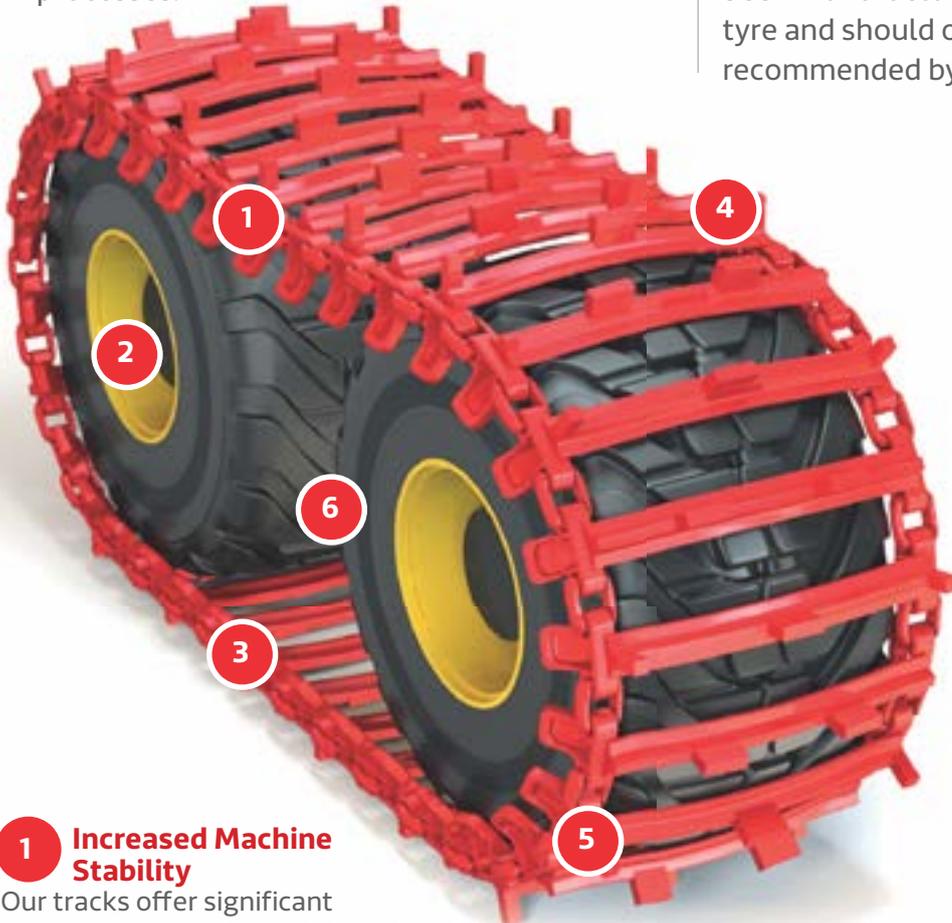
high performance for maximum work life

Designed and printed by: haggis@clarktracks.com Dimensions 11" and 50" are approximate
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Why choose Clark Tracks?

All of Clark Tracks Forest Machinery Tracks are manufactured from special boron alloy steel. The durability and toughness of the steel is maximised using specialised induction heating processes.

Specifically designed and manufactured steel sections and forgings are used to give high performance combined with the longest possible working life. Each set of tracks has been manufactured for use with a particular tyre and should only be used as recommended by this handbook.



1 Increased Machine Stability

Our tracks offer significant improvements in the stability of a machine by increasing the traction footprint and lowering the machines center of gravity. This is particularly advantageous on steep slopes with loader crane movements.

2 Reduce Fuel Consumption

Putting the link system close to the effective rolling radius of the tyre reduces the drag the track adds to the machine / transmission.

3 Reduced Ground Damage

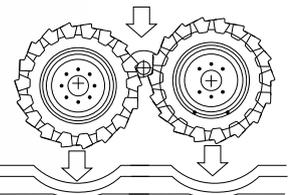
Clark Tracks Lite-Link System combined with our advanced flotation profiles (see tracks in the FL, TXL and TXCL ranges) have been specifically designed to minimise ground disturbance by reducing pressure on sensitive soils and ensuring constant levels of grip and traction.

4 Increased Traction

Using our tracks will significantly increase traction over normal tyres. This allows forest machines to climb slopes and negotiate obstacles that would otherwise have been impossible.

5 Reduced Ground Pressure

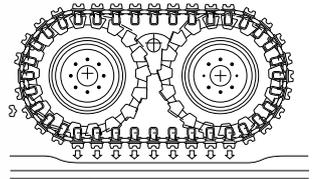
Using our tracks will increase the overall footprint of the machine and spread its weight over a much bigger ground contact area. This reduces ground pressure by as much as 50% or more over normal tyres and allows machines to be driven in conditions often impassable without tracks.



Before

Bare Tyres:

- Increased Ground Pressure
- Less flotation
- Deep ruts
- Soil Disturbance and compaction



After

With Clark Tracks:

- Increases Contact Area
- Lower Ground Pressure
- Increased Flotation
- Greater Machine Stability
- Increased Traction
- Reduced Ground Disturbance



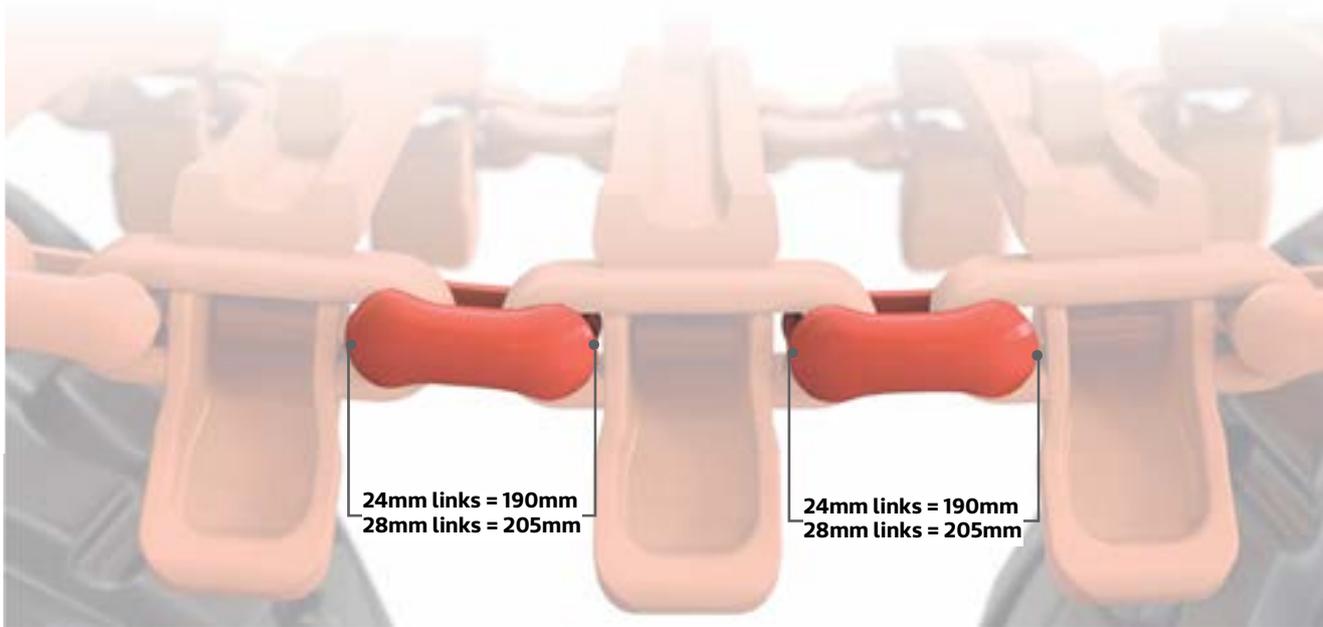
Lite-Link System



28mm The Lite-Link System features side
24mm mounted joining links

which are positioned at approximately the same level as the tyre surface, thereby providing a smoother running track which absorbs much less machine driving power than other link systems

The track is held onto the machines tyres using a system of side “paws”, which have the added benefit of tyre side wall protection. Clark Tracks, lite range of products, offer tracks that are both kind to the forest floor and forest roads, whilst delivering excellent grip, traction and flotation.



Available with 24mm STANDARD or 28mm HEAVY DUTY diameter links, the Lite-Link System offers many advantages over other track link systems:

- **Kind to the forest floor and roads**
- **Suitable for use on sensitive soils**
- **Low machine driving power requirements**
- **Reduces fuel consumption**

Suitability

Lite-Link systems are suitable for all forest machine applications - Forwarders, Harvesters & Scarifiers etc.

- **Easy to fit and tension on tyres**
- **Wide range available to suit all terrains**
- **Long service life**

Choosing your tracks

Great care should be taken when selecting tracks as some will perform better than others in specific terrain.

Although Clark Tracks cannot make exact recommendations due to the fact working conditions, machine or tyre limitations and terrain can vary considerably, this handbook aims to help all customers make an informed decision.

Warning...Some tracks are unsuitable for use in heavy snow and some types of sticky mud conditions.

Track Identification / General Rules



Date of
Manufacture

Serial
code stamp

Tyre Size

Tyre tread
pattern

As a general rule, close spaced tracks with wide plates are better suited to soft terrain. Wider spaced tracks with narrower plates are better suited to harder terrain and steeper slopes, offering greater climbing ability.

However, it should be noted that tracks with close spaced plates are not suited to use in heavy snow conditions or some types of sticky mud conditions. This is due to the potential for material being unable to escape between the track plates and building up between track and tyre which can, in extreme cases, cause

machine bogey transmission problems.

Each set of tracks carries identification badges giving the exact tyre size and tread pattern for which the track was designed. Also included here is date of manufacture and serial number.

It is essential that the correct track is used for each tyre type.





TERRA85



MULTI-TERRAIN



Terra85 is the ultimate all-terrain, all-season track. Featuring a double grouser track plate, grip and flotation are assured. The low profile also means less vibration and a smoother ride.

- **Low profile design reduces vibration and results in less operator fatigue**
- **Arguably the best multi-terrain tracks on the market**
- **Use all year round**
- **Special heat treatment for cold weather durability**

Machine



Climate



Ground Cond



Grip



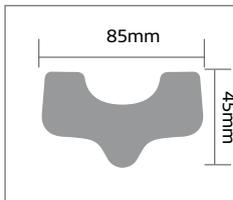
Flotation



Link



28mm
24mm







TERRA95

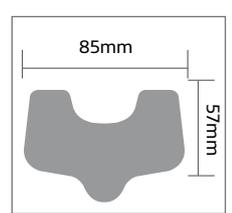
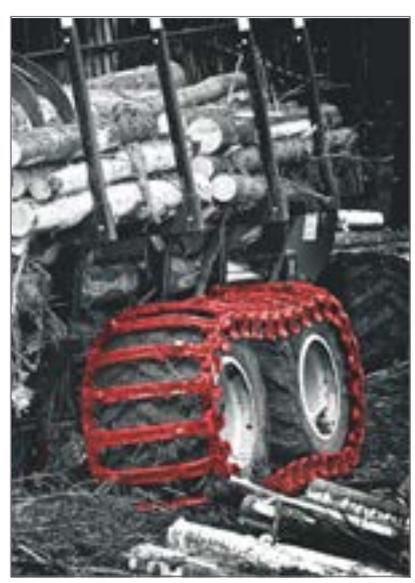
MULTI-TERRAIN



Terra95 is the undisputed class leading heavy duty, all-terrain all-season track. Heavy plate section and our 28mm durable links ensure long service life when fitted to the latest high horsepower, heavy Forwarders and Harvesters.

- Arguably the best multi-terrain tracks on the market
- Particularly suited to medium and large harvesters and forwarders, 14t payload upwards
- Low profile design reduces vibration resulting in less operator fatigue
- All-season use; assured Winter and Summer performance
- Durable and hard wearing, even on rocky terrain
- Suitable for scarifying and Skidder operations

Machine    Climate    Ground Cond   Grip     Flotation     Link 





FX



'West-Trak Stock Item'

HEAVY DUTY MULTI-TERRAIN

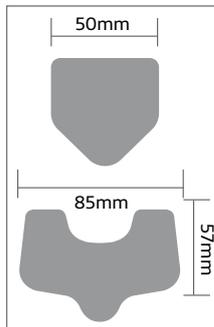


FX is a development of the heavy duty Terra95. These tracks are built for endurance and are suited to the heaviest Forwarders working on the toughest terrain. Double Rocky spikes on each track pad are secure and extremely long lasting compared to standard spikes, even on stony ground. FX tracks are the informed choice for the professional forester looking for maximum productivity from their heavy weight forwarder

- **Durable design and components for the most arduous terrain**
- **Confidence with supreme grip and flotation**
- **Good design for all round conditions**



Machine Climate Ground Cond Grip Flotation Link 28mm





<http://www.west-trak.co.nz/blog/d11t-track-group-bolt/>



GROUZER



DEMANDING TERRAIN



The Grouzer is a popular track with outstanding traction and climbing ability. This track is able to cope with almost any terrain and machine. Clark Tracks, "Grouzers" are the choice of the professional looking to challenge the toughest terrain.

- **Single grouzer section giving confidence and security in virtually all terrains**
- **All-season, all-terrains**
- **Exceptional climbing ability**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm



CS



CLIMBING SPECIAL



CS is a development of the popular Grouzer track. Traction is maximised through the addition of wide paddle spikes to the track pad and long shovel spikes to the edges. This track can take Harvesters and medium Forwarders further and more safely than before on demanding slopes. The pinnacle of climbing tracks.

- **Aggressive spike pattern for climbing**
- **Maximum traction**

Machine Climate Ground Cond Grip EXTRA Flotation Link 28mm 24mm



CX



CLIMBING XTREME



CX is a further Grouzer development, featuring wide paddle spikes, doubled up on each track plate. This track is best suited to Harvesters and medium to heavy Forwarders. They give peak performance for climbing with unsurpassed traction.

- **Aggressive spike pattern for climbing**
- **Maximum traction**

Machine Climate Ground Cond Grip EXTRA Flotation Link 28mm 24mm





TXL



ULTIMATE FLOTATION

TXL Tracks are in a class all of their own when it comes to ULTRA FLOTATION. Numerous studies have proven that TXL offers the best traction and lowest ground pressure of any track. This places them in a whole new class of flotation tracks. The flexibility of our production enables many options. Typically Asymmetric and Symmetrical extensions are available in any width required by our customer thus enabling operations on the softest and most sensitive soils with minimal ground disturbance. TXL is offered as standard width, 930mm and 1000mm from our regular track range. Both 930mm and 1000mm from our regular track range. Both 930mm and 100mm are available in symmetrical or asymmetrical designs. Please consult your dealer or Clark Track technical department for further details.

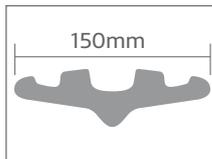
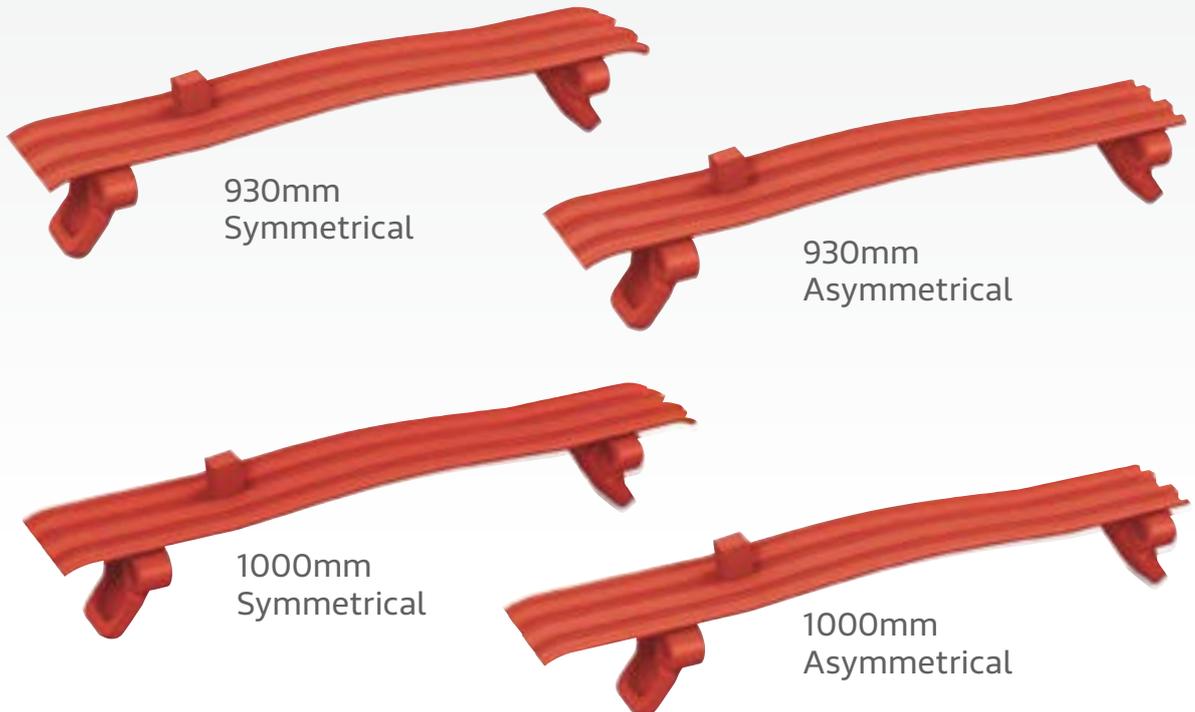
- **Advanced flotation track that offers excellent traction**
- **Close spaced, extra wide tracks for maximum flotation**
- **Suitable for all weights of machines**
- **Suitable for forest roads (without side slip spikes) and sensitive soils**
- **Available with extra width where machine design permits**
- **Clark Tracks lowest ground pressure track**

Machine Climate Ground Cond Grip EXTRA Flotation Link 28mm 24mm

Extra Track Plate width options for TXL

It is often possible for us to increase the overall width of the track by simply increasing the length of the track plate during manufacture. We offer both Symmetrical and Asymmetrical versions of TXL at 930mm and 1000mm as shown below. Some width and tyre combinations are not possible, please consult your dealer or Clark Tracks technical department for further information.

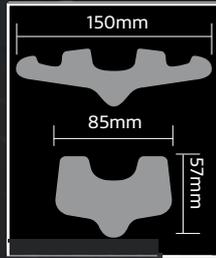
- **Extended both sides**
- **Extended more on one side than the other. Often done where there is little clearance between machine bodywork and tyre side wall**
- **Folded down track plate ends. It should be noted that this is not always possible**



TXCX



MULTI-TERRAIN FLOTATION



TXCX takes TXCL to the heaviest machines. Featuring Terra95 and TXL track pads, even the heaviest machines can work on sites featuring soft, muddy terrain and then climb moderate slopes.

- Improved traction and climbing for heavy forwarders compared to TXL
- Better cleaning when used in some mud and snow conditions (caution advised to be aware for snow or mud packing).



TXCL



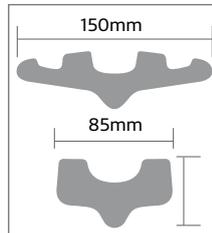
MULTI-TERRAIN FLOTATION



TXCL takes the advantages of the legendary TXL and combines them with the traction of the Terra85 track. This gives better climbing effort than the standard TXL. TXCL tracks are the leaders in mixed; soft terrain and moderate slopes.

- Improved traction and climbing compared to TXL
- Better cleaning when used in some mud and snow conditions (caution advised to be aware for snow or mud packing).

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm





TXGL

DEMANDING FLOTATION

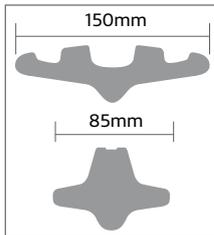


TXGL is the best of TXL and Grouzer combined to get forest machines through the wettest and marshiest ground and then climb demanding slopes with ease.

- **Maximised traction and climbing compared to TXL alone**
- **Better cleaning when used in some mud and snow conditions (caution advised to be aware for snow or mud packing)**



Machine  Climate  Ground Cond  Grip  Flotation  Link  28mm 24mm





FL15



ADVANCED FLOTATION

Flotation, FL15 is a high-flotation track suited to Harvesters and light to medium Forwarders. The low ground pressure and good grip help maintain productivity in wet and marshy conditions.

- **Wide, close spaced flotation plate design offers low ground pressure**
- **Tried and proven 'U' shape plate ensures excellent traction**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm



FL16



ADVANCED FLOTATION

Flotation, FL16 is the high flotation track suited to larger harvesters and medium to heavy forwarders. Strong, tough and durable, the FL16 is the clear choice for heavier machines in wet and marshy conditions.

- **Wide, close spaced flotation plate design offers low ground pressure**
- **Tried and proven 'U' shape plate ensures excellent traction**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm

SFL15



SUPER FLOTATION

The SFL15 track is an extended variant of the FL15. Featuring upturned edges, these tracks are perfect for thinning and working on brush mats. In addition, the end profiles enable easier steering which is extremely beneficial in thinning operations. Suitable for Harvesters and Forwarders up to 15t payload.

- **Symmetrical upturned edges**
- **Upturned edges protect roots and don't cut brush**
- **Easier steering**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm



SFL16



SUPER FLOTATION

The SFL16 track is a special variant of the FL16. Featuring upturned edges, these tracks are perfect for thinning and working on brush mats. In addition, the end profiles enable easier steering which is extremely beneficial in thinning operations.

- **Symmetrical upturned edges**
- **Upturned edges protect roots and don't cut brush**
- **Easier steering**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm



ATF



ALL-TERRAIN FLOTATION

Designed for use in wet marshy conditions and also snow and ice. A special link system is utilized to enable better cleaning and ejection of snow and mud. Wide and upturned edges give flotation whilst a pinched mid-section generates traction

- **Wet, marshy, snow and ice performance**
- **Broad, upturned edges for flotation and easy steering**

Machine Climate Ground Cond Grip Flotation Link 28mm 24mm



UNDER DEVELOPMENT



ROCKY



SNOW AND ICE



Rocky tracks feature a wide spaced square section track plate design. This gives superior grip and traction to large machines working in demanding, steep and rocky conditions.

- **Square section track plate for optimum traction in rocky terrain**
- **Heavy duty for use on large machines**
- **Exceptional climbing ability**



Machine

Climate

Ground Cond

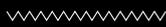
Grip

Flotation

Link

SINGLE TRACK

GSG



'West-Trak Stock Item'

ULTIMATE CLIMBING



Grouzer Super Grip (GSG) is the single wheel track that delivers maximum climbing capability for 6-wheeled machines. GSG's give exceptional traction and requires less maintenance than tyre chains.

- **Maximum grip and low maintenance**
- **Best design for all round conditions**



Machine

Climate

Ground Cond

Grip

Flotation

Link

TXSG



SUPER GRIP FLOTATION

TXSG is the solution for 6 wheeled harvesters looking to maximise productivity on the safest and most sensitive forest areas. TXSG increases the machine footprint and reduces ground pressure considerably.

- **Additional Flotation on soft or sensitive soils.**



Machine

Climate

Ground Cond

Grip

Flotation

Link



TERRA95



MULTI-TERRAIN



Skidders are notoriously hard on their tyres and tracks, which is why the Heavy Duty Terra95 is the best track bar design to maximise productivity through good traction, tyre protection and long service life. Terra95 is a must for the latest Skidders.

Terra95 is a class leader for heavier Cut-To-Length machines, and also for Skidders with Tandem or Bogie axles.

- Arguably the best multi-terrain tracks on the market
- Low profile design reduces vibration resulting in less operator fatigue
- All-season use; assured Winter and Summer performance
- Durable and hard wearing, even on rocky terrain
- At time of order, please specify the exact machine make, model, tyre and bogie length

Machine Climate Ground Cond Grip Flotation Link



FX



HEAVY DUTY MULTI-TERRAIN



FX tracks are based on the extremely robust Terra95. These tracks are built for endurance and maximum traction, even on the toughest terrain. Double Rocky spikes on each track pad are secure and extremely long lasting compared to standard spikes. FX tracks are the vital component for harnessing the raw power and torque of the biggest most powerful Skidders built.

FX tracks are built for endurance and maximum traction, even on the toughest terrain.

- Robust design for the most arduous terrain
- Confidence with supreme traction
- Harnesses the power of your Skidder and delivers it securely to the forest floor
- At time of order, please specify the exact machine make, model, tyre and bogie length

Machine Climate Ground Cond Grip Flotation Link



GSG



ULTIMATE CLIMBING



Grouzer Super Grip (GSG) is the single wheel track that connects your Skidder to the terrain so you can stay in control. GSG's for Skidders give exceptional traction and require less maintenance than tyre chains.

'West-Trak Stock Item'

- Maximum grip and low maintenance
- Control and safety

Machine Climate Ground Cond Grip Flotation Link

Skidder manufacturers have various rules relating to the fitting of traction aids (Tracks and Chains). It is the operators responsibility to ensure they comply with these rules prior to fitting traction aids.



SINGLE TYRE SKIDDER CHAINS NWS (net with studs)

A range of CLARK Tyre Chains are available for the most common Skidders and tyre sizes. These are a studded, 2-Diamond, small ring chain and case hardened for longer service life. Designed for maximum durability and low maintenance, the open chain pattern knows no limits for terrain or climate.

'West-Trak
Stock Item'



Chains

Clark Tracks Ltd. now offer a range of chains for the most popular Cut-To-Length and Skidder machines (see table below for available tyre sizes). Our CTC-Xplorer range has been developed in conjunction with our sister company OFA, producers of the worlds largest range of Forestry Chains for professional use.

NEW
for 2016

CTC-Xplorer chains go back to chain design basics to ensure durability and low maintenance. The open chain pattern knows no limits for terrain or climate.

Type	Part Code	Tyre Size	Net weight (kg)
CTC-Xplorer 16	CT93589668	710/45-26.5,700/50-26.5	383
CTC-Xplorer 16	CT93589756	750/55-26.5	416
CTC-Xplorer 16	CT93589676	700/55-34	440
CTC-Xplorer 16	CT93589736	700/70-34	517
CTC-Xplorer 16	CT93589325	23.1-26	403
CTC-Xplorer 16	CT93588328	28.1-26 (28L-26)	474
CTC-Xplorer 16	CT93589230	30.5-32	646
CTC-Xplorer 16	CT93589232	35.5-32	790



SUIT YOURSELF!

CUSTOMISATION

DESIGN YOUR PERFECT TRACK WITH OUR CUSTOMISATION OPTIONS

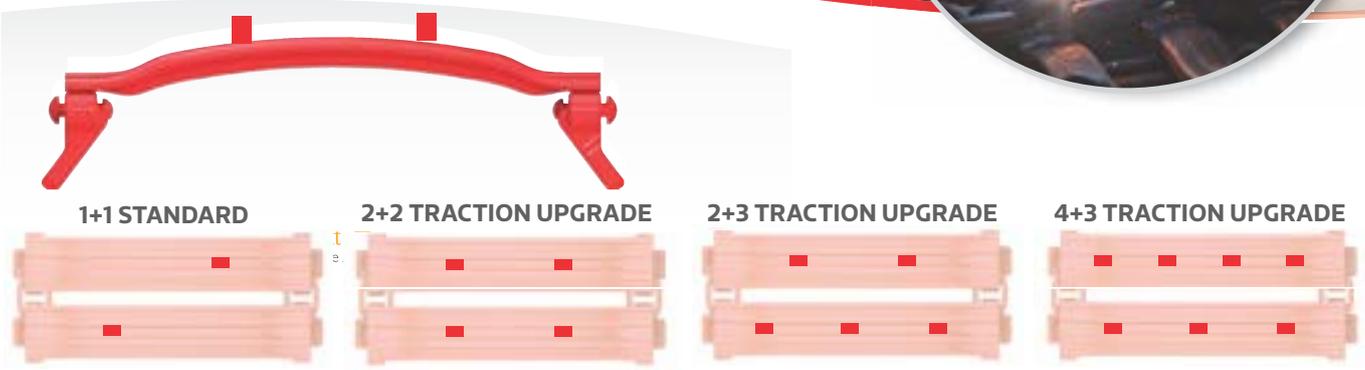
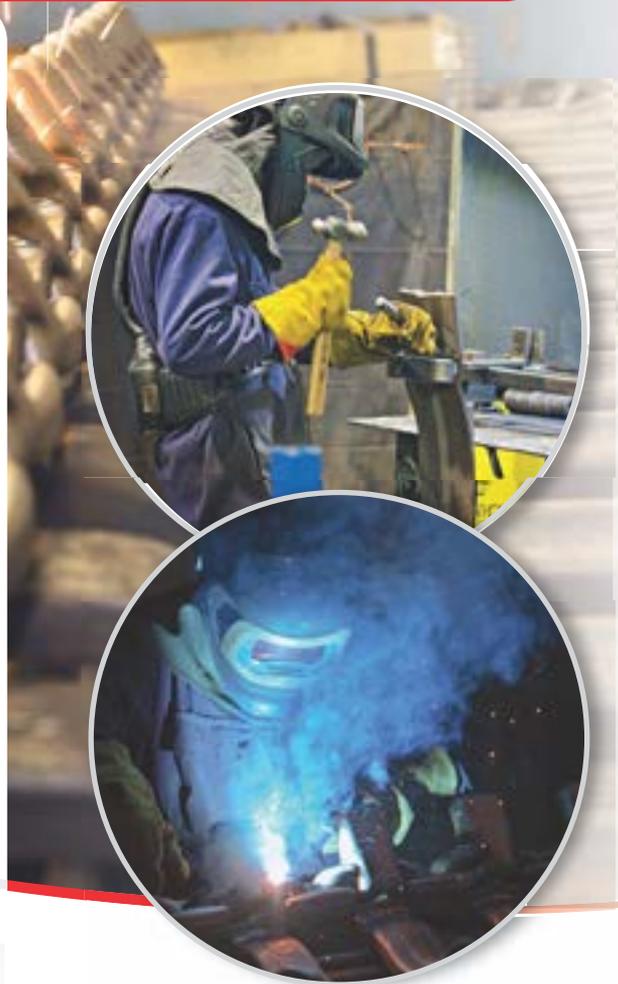
Anti-Skid Spikes

Anti-Skid spikes are designed to stop the forest machine sliding sideways when crossing side slopes. They are normally between 40mm and 50mm in height, depending on track model, one spike per plate alternating left and right from track plate to track plate.

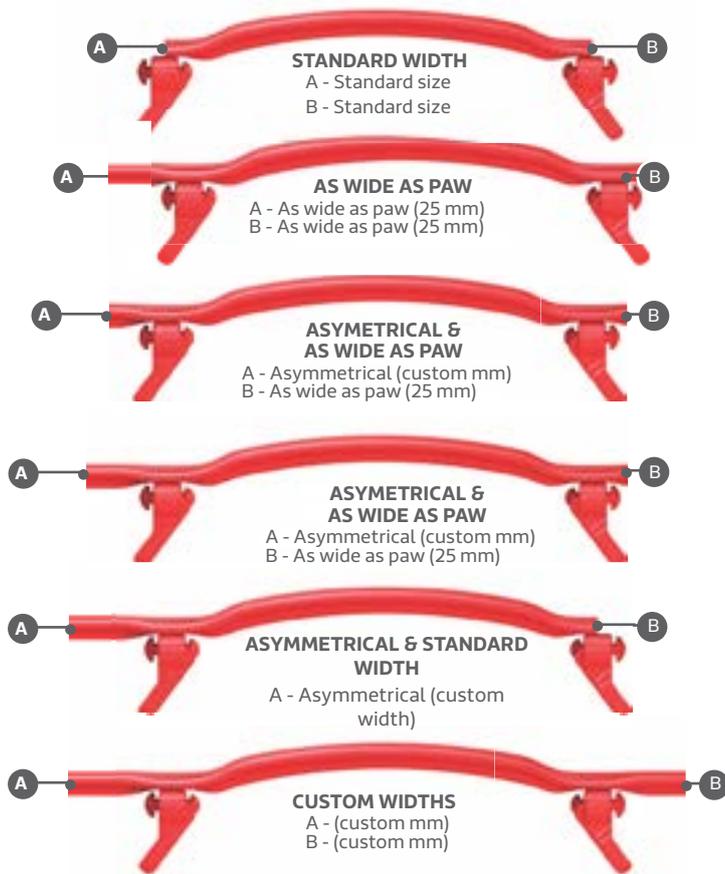
Spikes are available in a range of sizes for welding to forest tracks. Manufactured from heat treated boron alloy steel which is easily welded, these spikes combine hardness with strength. Welding instructions are available at www.clarktracks.com

We can offer the following Anti-Skid Spike options:

- **No spikes at all - for level ground and forest roads**
- **Two spikes per plate (one each side)**
- **Higher and lower height spikes (40mm, 50mm, 60mm and 70mm in stock)**
- **Spikes welded to different position on track plate**
- **Paddle Spikes - 75mm wide by 50mm high - for ultimate climbing**
- **Rocky Spike - 75mm extra heavy duty spikes for Terra 95's**



Clark Tracks technical department will advise of options and possibilities



Extra Track Plate Width

It is often possible for us to increase the overall width of the track by simply increasing the length of the track plate during manufacture. We therefore offer the following track plate options:

- **Extended both sides**
- **Extended more on one side than the other. Often done where there is little clearance between machine bodywork and tyre sidewall**
- **Folded down track plate ends. It should be noted that this is not always possible**

Extra width options are limited by track model and tooling constraints. Please email Clark Tracks technical department to discuss options and availability.

Asymmetrical **A** & **B** width sizes can be manufactured to suit your needs.

CUSTOMISATION

WIDTH MATTERS

ANY CUSTOM WIDTH CAN BE MANUFACTURED
JUST GIVE US A CALL

Tensioner Tools

NEW • NEW • NEW • NEW • NEW • NEW

Clark Tracks Ltd - Hydraulic Tensioner – QTT500



Hydraulic Tensioner - QTT500

The ultimate tool for fitting your Clark Tracks, our new QTT500 contains a rechargeable battery and hydraulic power to simplify the process. The hydraulics are incredibly powerful, exerting nearly 3t of closing force to enable effortless tensioning.



Quickie Track Tensioner Tool QTT400

For fast, easy tensioning this tool fits most types of forest tracks. Adjustment is via a 3/4" drive ratchet and 38mm socket onto the end but (not supplied).

Track Tensioner Tool QTT401

The QTT401 is a specially extended variant of the robust QTT400. The extended fork legs allow the tensioner to be engaged on the inside of the track links. This is beneficial where a QTT400 is not able to be used due to space constraints or where the track plates have been extended (e.g. TXL).

Track Tensioner Tool QTT402

For single wheel tracks (GSG tracks) the QTT402 features high strength pin to engage the tracks and tension with ease.

Spare Parts

Clark tracks carry a large stock of spare parts and can ship anywhere in the world at short notice.

Track End Plate Links

Available to suit Clark 24mm or 28mm track repair links, end links can be welded onto the tracks of any make or model during refurbishment.



Track Joining Links

Available in 18mm, 24mm and 28mm diameter sizes, Clark Track Joining Links are designed for ease of use. Forged from heat treated boron alloy steel for maximum hardness and strength, these links combine one bolt locking with smooth tyre friendly profiles.

The new 24mm and 28mm Links combine bolt head locking, for single spanner tightening, and a new tapered locking tongue design.



Fitting Staples (310mm)

Fitting staples make track tensioning even easier. Used in line with the Quickie Track Tensioner, these devices hold the track in the correct position for fitting to the machine.



Track Repair Links

Forged links and track plate end links are available in a range of sizes for the repair of all types and sizes of tracks. They are manufactured from heat treated boron alloy steel for strength and hardness, resulting in a durable, hard wearing link.



Spike Welding Procedure

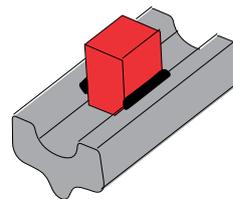
When welding spikes onto the track plate, it is vitally important that the tracks are clean and dry and also at ambient temperature of at least 18°C. Preheating to 200°C is also desirable.

Recommended MIG wire electrode
 ESAB AUTROD 13.12 (or similar)

Recommended welding electrode
 ESAB OK74.78 (or similar)

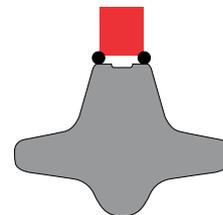
Stage 1

Start by tacking all spikes in place. Do not place spikes on the center of the track pad, nor within 100mm of existing spikes. To avoid overheating the track plate, work along and round the track as per stages 2-5 below.



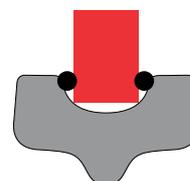
Stage 2

Work along length of track, welding only 1 side of the spike, no greater than 5mm fillet weld (Terra).



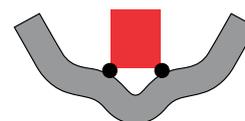
Stage 3

Work down other side of track, welding only 1 side of the spike, no greater than 5mm fillet weld (Terra).



Stage 4

Work along the first side of the track (step 2), performing the second weld per spike.



Stage 5

Finish by working along the second side (as started in stage 3), completing the second weld per spike.





Driving with Tracks

Tracks increase machine stability, offer increased traction and flotation. However, in order to obtain maximum advantages from using tracks, the following points should be duly observed.

- **The correct track must be selected for each task, considering terrain, machine size, tyre type and size to which the tracks will be fitted, driver experience and working practices**
- **Tracks must be correctly fitted and tensioned**
- **Tyres must be inflated to correct working pressure - usually maximum permitted tyre pressure**
- **Tracks should not hit or foul the machine bodywork**
- **Special note should be made of tracks which have worn anti-skid spikes. These spikes prevent lateral sliding of tracks, particularly on side slopes and should be replaced when worn.**

Driving Speeds

The maximum driving speed with tracks should never exceed 12km/hr. This applies even on flat smooth surfaces or forest roads. Speeds should be considerably reduced in the forest and reduced further with a loaded forwarder and when operating on extreme terrain.

Track Interaction with Tyre

Through in depth research and development, Clark Tracks have designed tracks which achieve a fine balance - reduced track on tyre slippage while preventing severe tyre damage.

Every track plate has been manufactured to have an underside grouser bar, used to grip the tyre surface. Where this grouser bar is lubricated - as when driving in wet peat or clay conditions - or worn due to old age, slippage between track and tyre can occur. Tyre slippage can also be a problem on very large, high horsepower machines which are

heavily loaded and working on steep, wet ground. Where the bar is too sharp or aggressive, tyre damage will occur.

As standard there is a 5-10mm gap between the paw and tyre (design range is between 2 and 20mm depending upon track design and tyre condition).

Tyre Suitability

Almost every tyre can be fitted with tracks, some are more suitable than others.

- Tyres should be designed for use with tracks
- The ideal tyre has a smooth, less aggressive tread pattern, with slightly rounded shoulders
- The tyre should have steel reinforcement within the carcass and be of heavy ply rating
- The tyre must be fitted to the correct steel reinforced wheel rim for forestry use
- The tyre must be fitted with the correct recommended inner tube, where applicable
- Radial tyres are generally unsuitable for tracks, the notable exception being the NOKIAN Forest Rider range of tyres
- Some tyre rubber compounds are not suited to steel tracks - if in doubt, please consult the tyre manufacturer
- Tracks can only be fitted to machines with fixed wheel center bogeys
- Tracks cannot be fitted to machines with independent wheel suspension as found on some models of dump trucks



Forest Rider



TRS LS-2



Twin 422



Twin 428



Forest King F



Forest King F2



T440



T480

Tyre Pressure (NOKIAN)

CROSS PLY			
Dimension	Ply Rating	kPa	PSI
600/50-22.5	16	430	62
600/50-22.5	20	550	80
700/45-22.5	16	390	57
710/40-22.5	16	430	62
710/40-24.5	20	550	80
600/55-26.5	16	460	67
600/55-26.5	20	550	80
650/60-26.5	12	280	41
650/60-26.5	20	550	80
650/65-26.5	20	550	80
700/50-26.5	20	550	80
710/45-26.5	16	460	67
710/45-26.5	20	550	80

Dimension	Ply Rating	kPa	PSI
750/55-26.5	20	550	80
780/55-26.5	20	550	80
800/40-26.5	20	500	73
600/65-34	14	290	42
700/55-34	14	280	41
700/70-34	16	280	41
RADIAL			
Dimension	Ply Rating	kPa	PSI
650/45R24.5		550	80
600/55R26.5		550	80
710/45R26.5		550	80
800/50R26.5		550	80
600/65R34		400	58
710/55R34		400	58

For information on Trelleborg tyre pressures, please visit our web site.

Fitting your Tracks



This task should only be carried out by a trained operative.
Please carry out a risk assessment to ensure safety for yourself and others.



The tracks will be supplied in four sections, with two joined sections required for each side of the machine. Tracks are manufactured in standard lengths for each tyre size and may be too long, requiring the removal of one full track plate section prior to fitting in order to obtain the correct tension. This is dependent upon whether the track is fitted to new or worn tyres and can also vary due to machine type and bogey design.

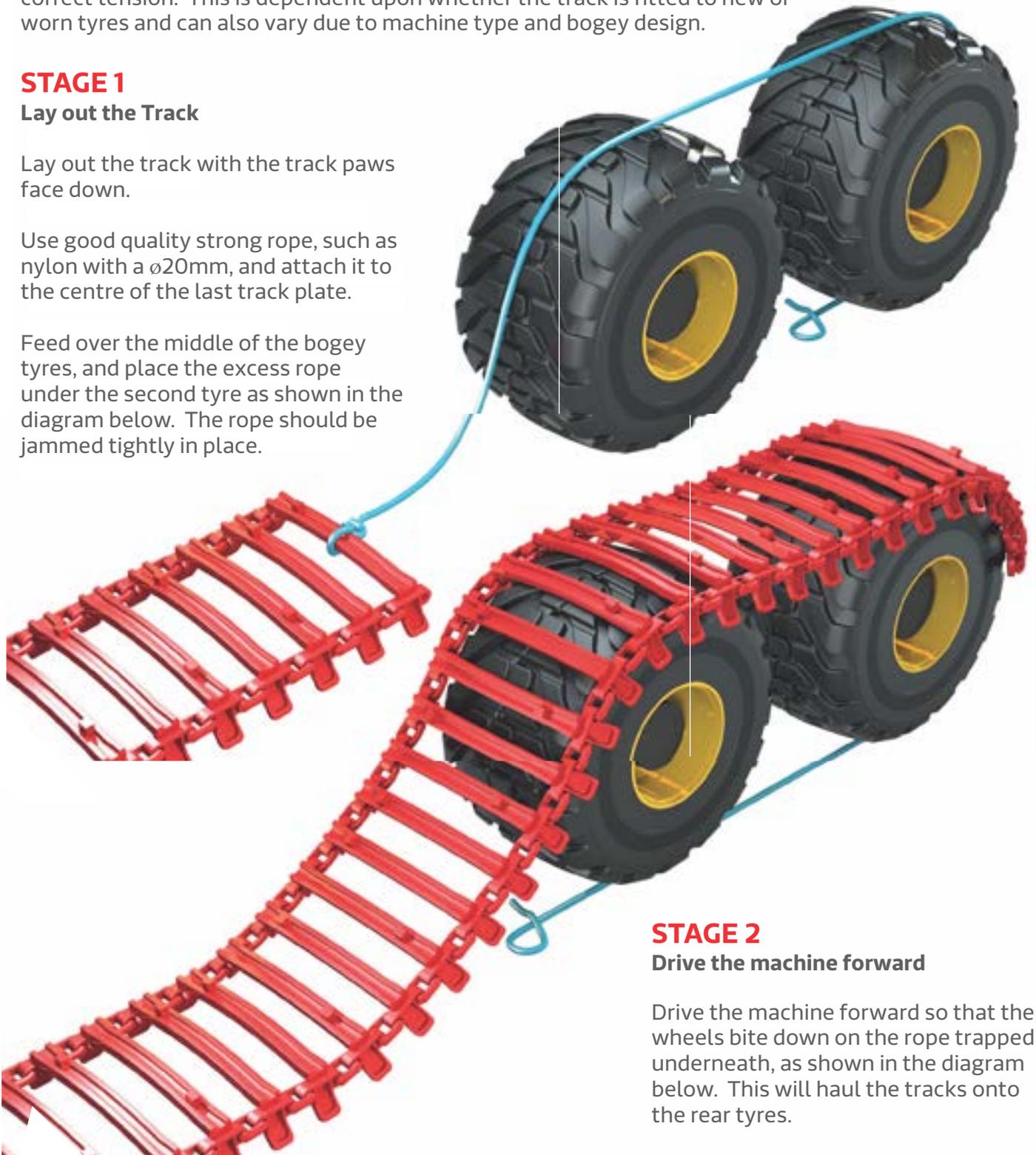
STAGE 1

Lay out the Track

Lay out the track with the track paws face down.

Use good quality strong rope, such as nylon with a $\varnothing 20\text{mm}$, and attach it to the centre of the last track plate.

Feed over the middle of the bogey tyres, and place the excess rope under the second tyre as shown in the diagram below. The rope should be jammed tightly in place.



STAGE 2

Drive the machine forward

Drive the machine forward so that the wheels bite down on the rope trapped underneath, as shown in the diagram below. This will haul the tracks onto the rear tyres.

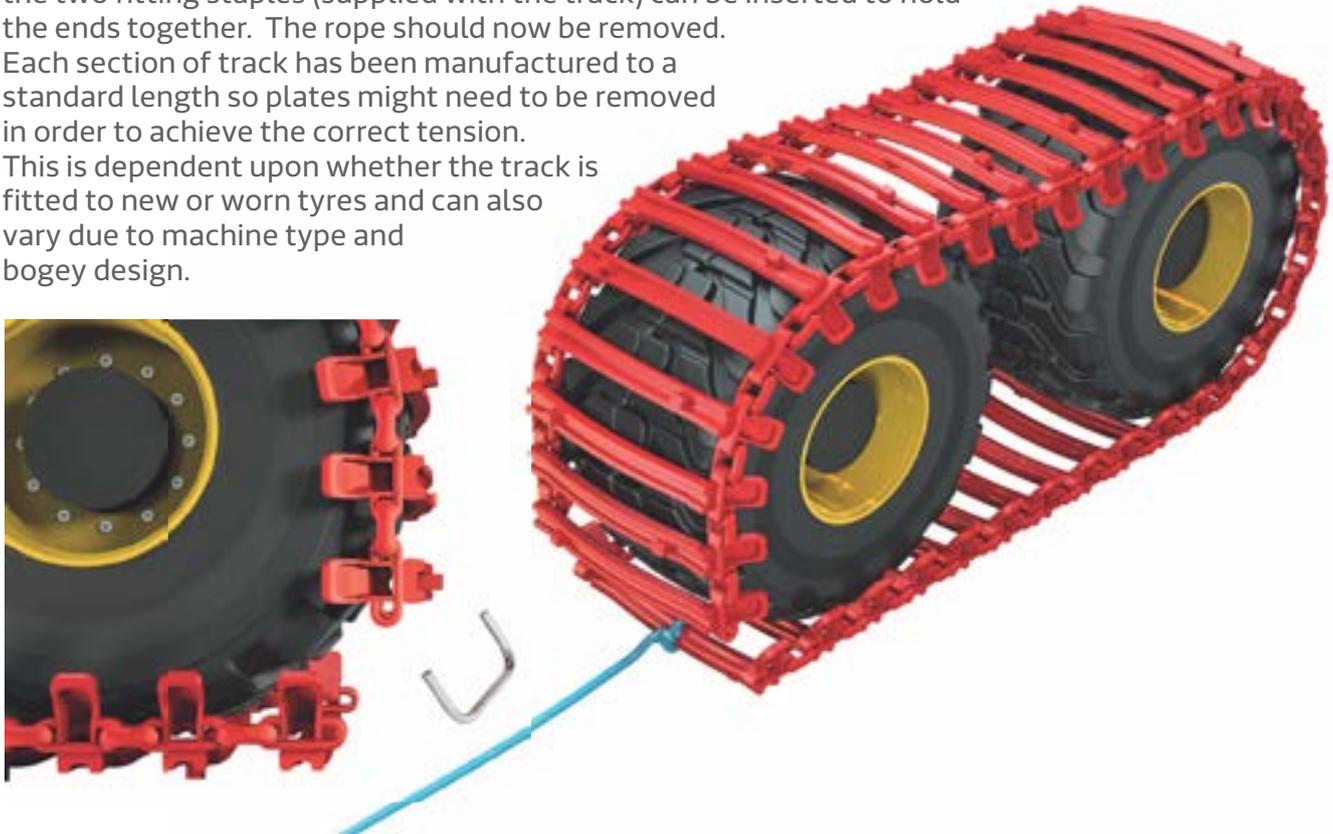
STAGE 3

Insert the two fitting staples

When the track is sitting fully on the machine as shown in the diagram, the two fitting staples (supplied with the track) can be inserted to hold the ends together. The rope should now be removed.

Each section of track has been manufactured to a standard length so plates might need to be removed in order to achieve the correct tension.

This is dependent upon whether the track is fitted to new or worn tyres and can also vary due to machine type and bogey design.



STAGE 4

Drive the machine forward again

Drive the machine forward so that the stapled section is in the center of the bogey

PLEASE NOTE...

A 3/4" drive ratchet spanner and 38mm socket are required to operate the Tensioner. Ensure the Tensioner is correctly and safely fitted to the tracks prior to use.



...cont Fitting your Tracks

STAGE 5

Place the Track Tensioner

The track Tensioner should then be placed on either end of the track, on either the right or left side, and a ratchet used to tighten the track. The staple should then be replaced by the track joining link. This process is then repeated on the other side of the track



STAGE 6

Fitting of track joining links

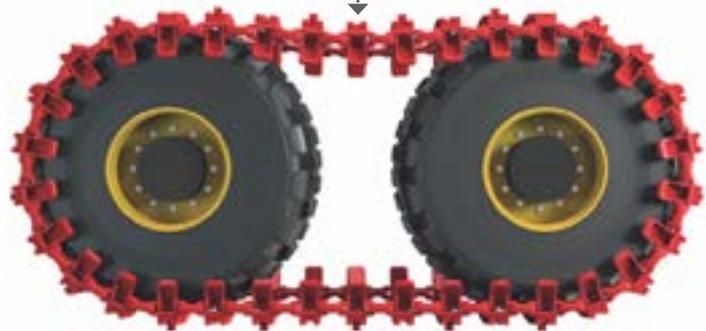
These links must be fitted with the smooth surface of the link facing towards the tyre, with the end plate fitted to the outside. Fitting these links the wrong way round can result in tyre damage with the link pins contacting the tyre side wall.

STAGE 7

Ensure correct track tension

Ensure correct track tension. Where tracks are run too slack, with excessive amount of centre sag, there are potential problems with tracks falling off. There is also a danger of tracks hitting and rubbing on bogey drive boxes and in extremely neglected cases, wearing grooves and holes in the drive box.

Centre Sag
40mm-70mm



Machine Clearance

In order to avoid tracks hitting or fouling the machine bunk or bodywork (which can in extreme cases cause transmission problems), a minimum clearance gap of 50mm between track and machine should exist. The tracks should be properly tensioned at all times.

This clearance gap should be measured with:

- **The track pushed on the tyres towards the machine**
- **The bogey at maximum tilt angle - the worst possible scenario**

Without this clearance there is a possibility of track/machine fouling when tracks wear, become slack or are run at faster than normal speeds



PLEASE NOTE...

Many 8 wheel drive machines have less clearance at the front of the machine for tracks than at the back. When tracks are fitted to the front of the machine, ensure there is adequate clearance between tracks and machine bodywork such as:

- Clearance from doors
- Air intakes
- Front blades
- Cab ladders

This should be tested at all bogey tilt angles with tracks pushed towards the machine on the tyres. When tracks are fitted to the rear of the machine, clearance is required between the tracks and the bunk frame. When bunk frames are repositioned, e.g. for different timber lengths, this can change track to frame clearances and must also be checked. Some machines are fitted with hydraulic bogey lifting rams and may be unsuitable for use with tracks due to inadequate clearances. Checks must be made prior to fitting tracks.

When space is restricted using the QTT400 tensioner, the QTT401 may provide a safe alternative

Re-tensioning of tracks

When tracks are new, they will quickly slacken off over the first few days of use and will require re-tensioning. Re-tensioning involves the replacement of long track links with short track links and then the removal of one full track plate in order to maintain correct tension. This process should be done using the Clark Track "Quickie Tensioner" as shown in the Spare Parts section of this hand book and described in our fitting instructions.

This slackening of new tracks is not any form of material stretching, but simply a "bedding in" process due to the numerous components in the track link system.

It can be expected that the track will require re-tensioning frequently during the first week of work, with this task becoming less frequent as the tracks bed in. It can also be expected to have to remove one complete track plate within the first three or four weeks of work and perhaps a second track plate after three to six months of work. The amount of wear experienced by the track link system over its working life is dependent upon the abrasiveness of the terrain together with the load and tension experienced by the tracks. Over-tensioned tracks will wear more quickly.

Tracks should be run with as low a tension possible providing that:

- **The tyres are not slipping and spinning inside the track**
- **The track is not falling off the tyres**
- **The track is not hitting the bodywork or any part of the machine**
- **The track is not causing any damage to the tyres**

Tracks which are over-tensioned unnecessarily will stress axles and hub bearings as well as increase tyre and track wear.

Design & Quality

All Clark Forest Machine Tracks are designed and manufactured in our own dedicated track production factory by skilled engineers, trained in all aspects of track manufacture. This allows us to react quickly and economically to system requirements and ensures that we have control of all aspects of manufacture and quality control.

All Clark Forest Machine Tracks go through checking and testing procedures which are well documented and recorded so that we can continue to improve, therefore providing the highest quality to the customer.

Every section of Clark Forest Machine Tracks has badges attached which are stamped with a serial number allowing complete traceability

Delivery

Each set of Clark Tracks are supplied in four quarter sections and comes complete with all necessary joining links. Tracks are normally packed on two open pallets for shipping with two sections rolled per pallet.



Repair & Support

All Clark Forest Machine Tracks are manufactured from heat treated boron alloy steel, which can be welded like any conventional high strength alloy steel.

- **The material must be clean and dry and prepared for welding**
- **Preheating to approximately 200°C is desirable**
- **Normal welding materials may be used for gas - shielded metal inert gas (MIG) welding**

Please consult Clark Tracks Technical Support Department prior to commencing repairs

We pride ourselves on the level of technical support and backup we can offer our dealers and customers both through information contained in this unique handbook and in the technical ability of our staff to solve problems.

We are also willing to talk directly with customers who require technical assistance even out of office hours. We are only a phone call away.

WARRANTY

For further information on our warranty terms and conditions, please contact us via email or telephone









Scan the code to
view the Clark
Tracks video!

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