

GreenTRACK

protect your forest



GreenTRACK

The use of forestry machinery is moving to more complex terrains, where there is no room for compromise. It is necessary to ensure good traction of the machine, minimal impact on the forest ground and minimal fuel consumption.

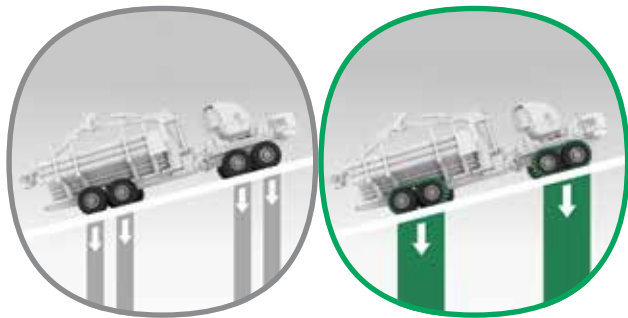
WHY CHOOSE GREENTRACK?

ENHANCED STABILITY OF THE MACHINE AND GREATER LOADS

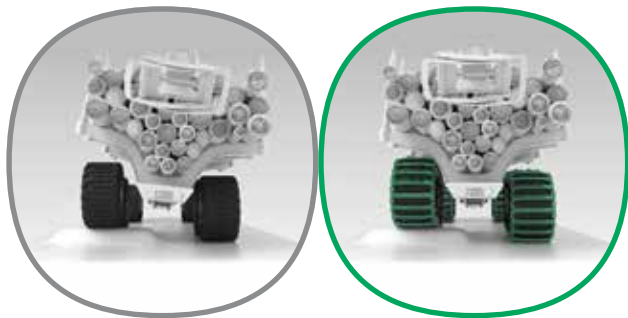
Tracks have a much larger contact area with the ground compared to forestry chains.

ADVANTAGES:

- Greater contact area with the ground;
- Uniformly distributed force on the surface;
- Constant traction with the ground;



- Increased stability reduces machine tilting;
- The work machine is more stable when driving over uneven terrain;
- Transport of larger loads;

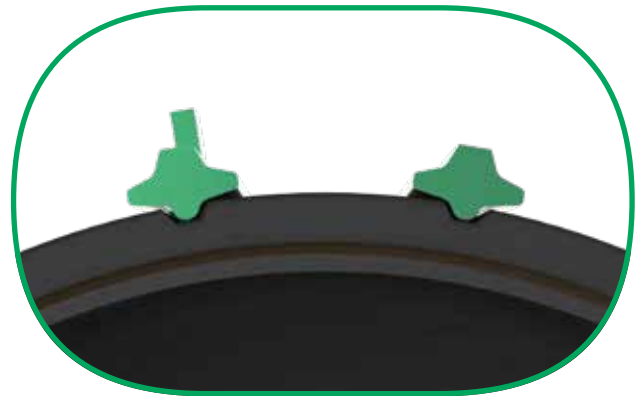


- Faster driving;
- Reduced fuel consumption;

ENHANCED TRACTION AND TRANSMISSION OF FORCE

Regardless on what ground you use the work machine, the GreenTrack tracks provide good traction and greater force transmission.

For optimal traction of the tracks with tyres, it is recommended to use tyres with a special channel, into which the track "rests".



PROLONGED SERVICE LIFE OF THE TYRES

An important part of the machine are the tyres, which represent a substantial cost. With tracks, the lifetime of the tyres is prolonged by up to 60%. GreenTrack tracks have a dual role in the protection of the tyres:

1. The shape of the profile prevents the wheels from slipping inside the track, while also contributing to the reduced wear of the tyre tread.
2. Protection of the tread and the sides against sharp objects (stones, rocks), which "cut" into the tyre profile, thus destroying it.

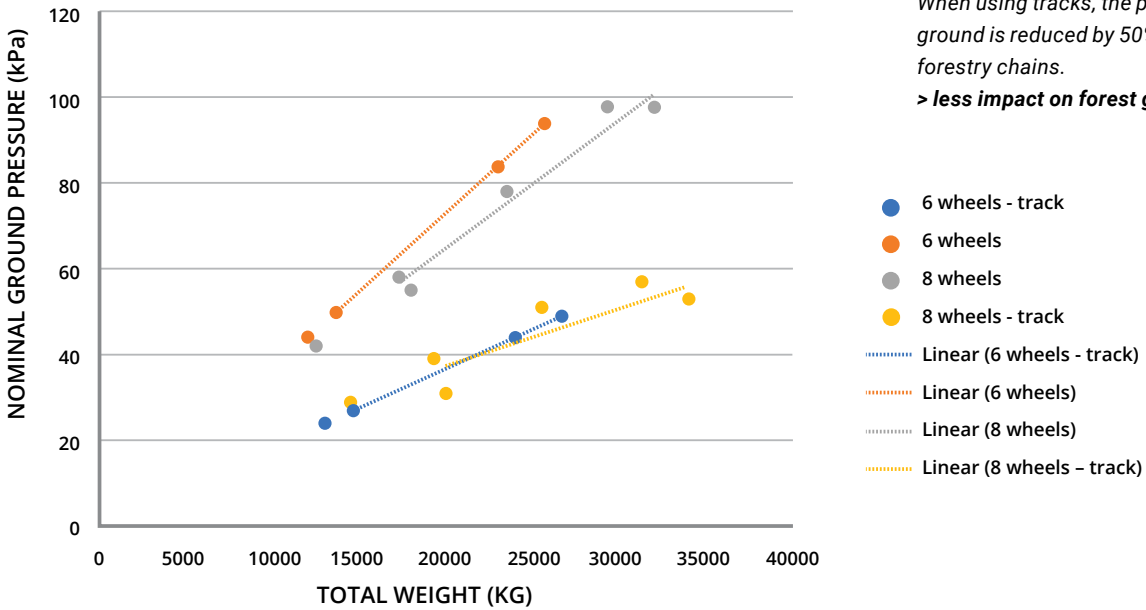


VIDEO

CARE FOR THE ENVIRONMENT

> LESS IMPACT ON FOREST GROUND

In a society where caring for the environment is becoming increasingly important, we cannot ignore the impact forestry machinery has on forest ground. To this end, the Biotechnical Faculty of the University of Ljubljana conducted a study in 2010. The graph below shows a part of the study, i.e. reduced nominal ground pressure between 30 and 50% when using tracks instead of forestry chains.

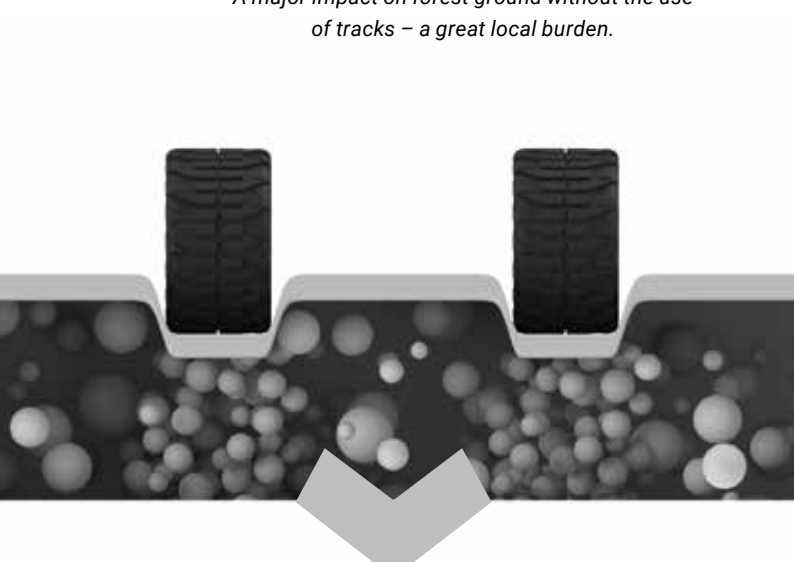


When using tracks, the pressure on the ground is reduced by 50% compared to forestry chains.

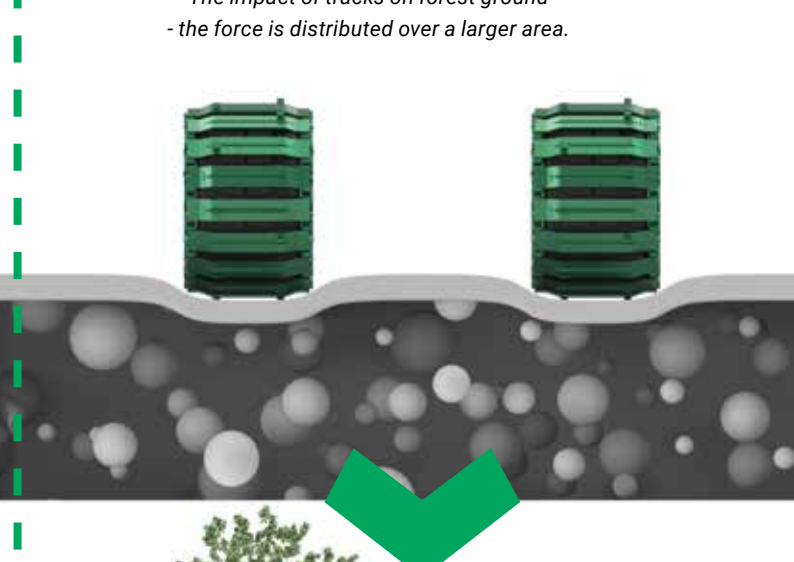
> less impact on forest ground.

- 6 wheels - track
- 6 wheels
- 8 wheels
- 8 wheels - track
- Linear (6 wheels - track)
- Linear (6 wheels)
- Linear (8 wheels)
- Linear (8 wheels - track)

A major impact on forest ground without the use of tracks – a great local burden.



The impact of tracks on forest ground – the force is distributed over a larger area.



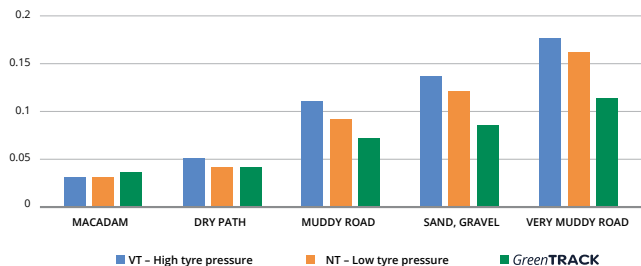
Long term impact on the environment with the use of forestry machinery.



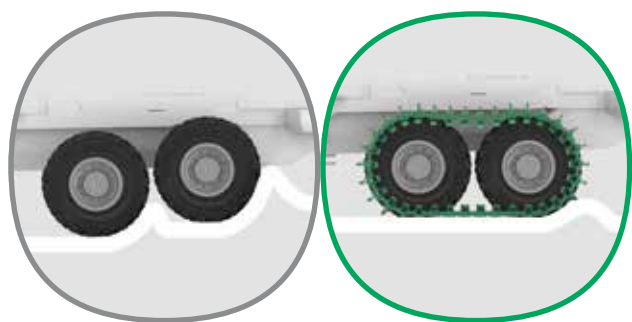
Long term impact on the environment with the use of forestry machinery.

> LOWER FUEL CONSUMPTION

The use of GreenTrack tracks increases the contact area, thereby reducing the draft of the machine and the resistance which has to be overcome, while at the same time reducing fuel consumption..

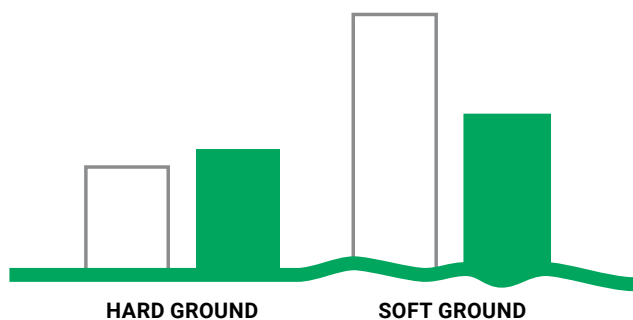


The use of tracks provides a minimum rolling resistance on all terrains, which results in lower fuel consumption and more stable driving.



increased resistance while driving

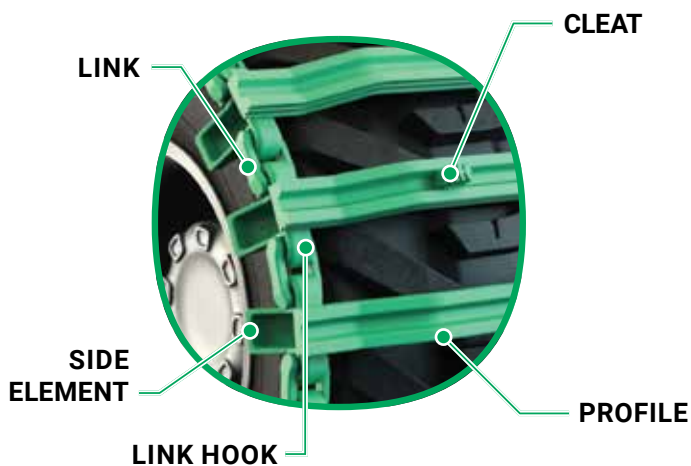
less resistance while driving



The use of tracks on soft ground results in significantly lower fuel consumption.

DEVELOPMENT

We have been gradually developing the GreenTRACK tracks for many years before reaching the desired results and offering the product on the market. We have been in a constant search to find a compromise between material durability, price and impact on the environment. During the development, we cooperated with experts in the field of materials and thermal processing, and end users who have the most experience and, most importantly, provided feedback regarding the use of tracks.



> MATERIAL SELECTION

We have chosen rolled profiles, not castings, as various researches conducted by experts have shown that only rolled profiles achieve an correspondingly fine structure of the material, ensuring an even and adequate hardness and toughness through the entire profile.

We have chosen boron steel, which achieves an optimal ratio between hardness and toughness after the process of hardening. Hardness is important because of the abrasion of the tracks, while toughness ensures the material is not fragile and does not crack during higher loads.

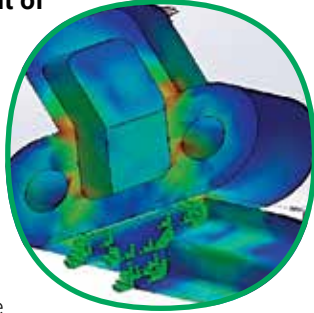
- We have put a lot of emphasis on the selection of material during the development of the tracks. The optimal use of the tracks requires sufficiently hard and tough material, allowing abrasion and impact damage resistance, thus providing a longer lifetime.
- Quality welds are essential for the functionality of the product and the lifetime of the track.
- A special boron steel includes all the characteristics the material needs for the quality manufacture and use of the tracks.
- The tracks are heat-treated until the hardness 42–45 HRC is achieved. This ensures abrasion resistance, while at the same time the material is not too hard to break on hard and stony terrain.

> LINKS

A vital part of the tracks are the links. Based on analyses and testing, we have determined the optimal diameters of the links, which provide the appropriate transmission of forces and do not increase the weight of the track.

We have developed Ø 22, Ø 26 and Ø 30 mm links.

Most commonly integrated are Ø 26 links, which are designed to withstand the hardest tasks and enable a smooth application. To prolong the lifetime of the track or enable its use in extreme conditions, we recommend the Ø 30 link. With additional material, it ensures the transmission of greater forces and a longer lifetime, while only slightly increasing the weight of the tracks. If the total weight of the track is more important than the force, i.e. during operation, it is possible to install slightly lighter Ø 22 mm links.



> SIDE ELEMENTS OF THE TRACKS

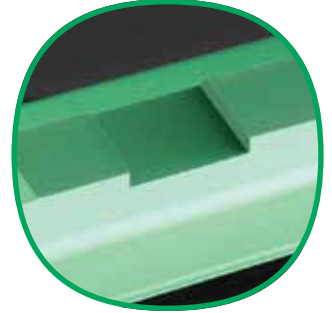
The function of a sidepart is:

- To restrict the position of the track on the tyre – self-centring;
- The side elements allow the tyres to move within the track at all times – this also enhances the traction between the tyres and the track which ensures smoother driving;
- Lateral stability of the track – when driving on slopes, the side parts ensure the required support on the tyres;
- Lateral protection of the tyre – protects the tyre against sharp objects and excessive wear.

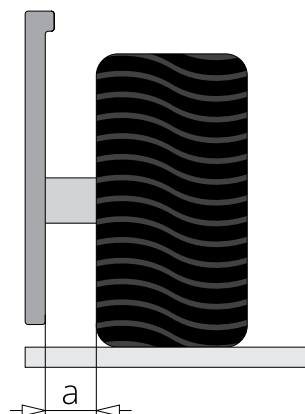
Minimal space between the tyre and the bodywork is a=15 cm

> WELDING THE CLEAT

In addition to the links, welded cleats are also under a great load and the most exposed. The material is the same as for the profiles, ensuring the same welding conditions. The cleats are serially welded prior to the heat treatment of the track in order to avoid any local softening of the material. The place where the cleats are welded is of a specific form, providing additional support. The welds are even and continuous, ensuring a long lifetime and usefulness of the cleats. In most cases, one cleat is welded on the crosspiece – alternately on each side.



At the customer's request, we can also weld more cleats in different places, thus increasing the traction.





QUICK OVERVIEW



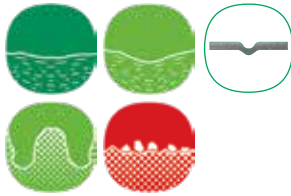
GreenTRACK
MULTI | MU



GreenTRACK
GROOVE | GR



GreenTRACK
SOFT | so



GreenTRACK
EXTREM | EX



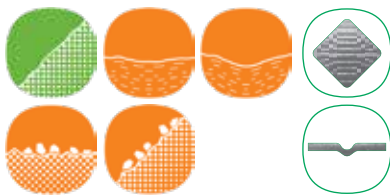
GreenTRACK
COMBO MS | cms



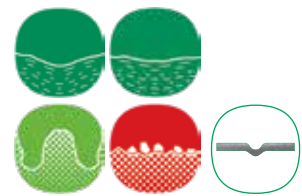
GreenTRACK
COMBO GS | cgs



GreenTRACK
COMBO ES | ces



GreenTRACK
MEGA | ME



GreenW-TRACK
MULTI | w-mu

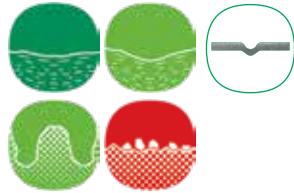


GreenW-TRACK
MULTI SKIDDER | w-mu-s





Green **W-TRACK**
SOFT | W-SO



Green **W-TRACK**
GROOVE | W-GR



STEEP
TERRAIN



ROCKY
TERRAIN



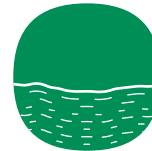
DEMANDING
TERRAIN



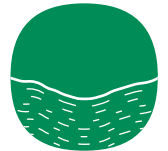
UNEVEN
TERRAIN



SOFT
TERRAIN



VERY SOFT
TERRAIN



PERFECT

GOOD

CONDITIONAL

NOT RECOMMENDED

MULTI	GROOVE	SOFT	EXTREM
<p>A 84 mm</p> <p>B 55 mm</p>	<p>A 82 mm</p> <p>B 57 mm</p>	<p>A 150 mm</p> <p>B 30 mm</p>	<p>A 65 mm</p> <p>B 65 mm</p>



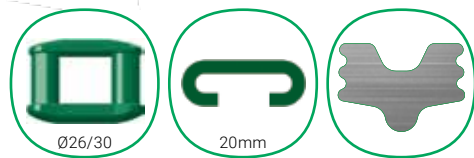
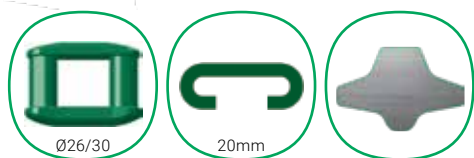


SKIDDER

CODE	MU	GR	SO	EX	CMS	CGS	CES	ME	W-MU	W-GR	W-SO	W-MU-S
MODEL	Green-TRACK MULTI	Green-TRACK GROOVE	Green-TRACK SOFT	Green-TRACK EXTREM	Green-TRACK COMBO MS	Green-TRACK COMBO GS	Green-TRACK COMBO ES	Green-TRACK MEGA	Green W-TRACK MULTI	Green W-TRACK GROOVE	Green W-TRACK SOFT	Green W-TRACK MULTI SKIDDER
ADDITIONAL WELDED ELEMENTS RECOMMENDED FOR TRACTION												
RUNNING SURFACE COVERAGE	***** **** 9	***** **** 9	***** ***** 10	***** **** 9	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** **** 9	***** **** 9	***** ***** 10	***** **** 9
STABILITY	***** **** 9	***** **** 9	***** ***** 10	***** **** 9	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** **** 9	***** **** 9	***** ***** 10	***** **** 9
SUITABLE FOR HARD GROUND	***** **** 9	***** **** 9	***** ** 7	***** ***** 10	***** *** 8	***** *** 8	***** *** 8	***** ** 7	***** **** 9	***** **** 9	***** ** 7	***** **** 9
SUITABLE FOR SOFT GROUND	***** ** 7	***** ** 7	***** ***** 10	***** ** 7	***** **** 9	***** **** 9	***** **** 9	***** ***** 10	***** ** 7	***** ** 7	***** ***** 10	***** ** 7
TRACTION	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10	***** ***** 10

GreenTRACK MULTI MU

GreenTRACK GROOVE GR



Universal form of the profile, which enables excellent traction and stability of the machine on various types of foundation. It is suitable for steep and stony terrains and also for mud and snow.

Special form of the profile, which enables excellent traction and stability of the machine on various types of foundation. It is suitable for steep and stony terrains and also for mud and snow.

APPLICATION:

- Demanding and rocky terrain;
- Mud and snow.

APPLICATION:

- Demanding and rocky terrain;
- Mud and snow.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

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- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cogs;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cleats;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.

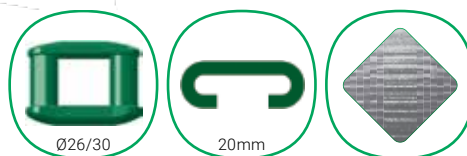
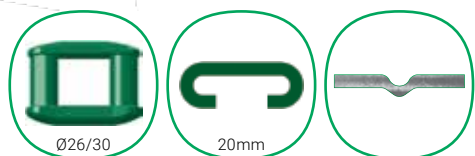


GreenTRACK SOFT

SO

GreenTRACK EXTREME

EX



Due to the form of the profile, it provides a great contact surface with forest ground, and, consequently, outstanding traction and stability of the machine on swampy and soft foundations. The profile with the least impact on forest ground.

APPLICATION:

- Soft and marshy terrain;
- On terrain where minimum impact on the environment and undergrowth must be ensured;

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread has been designed to have the least impact on forest ground;
- The tread shape enables an excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cogs;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.

Tracks are intended for the most challenging terrains. The construction of the profile enables outstanding traction and stability of the machine on steep terrains as well as constant traction between the tyre and the tracks.

APPLICATION:

- Demanding and rocky terrain;
- Tread for the steepest terrain.

PRODUCT PROPERTIES:

- Optimal traction on hard and rocky terrain;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cogs;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.

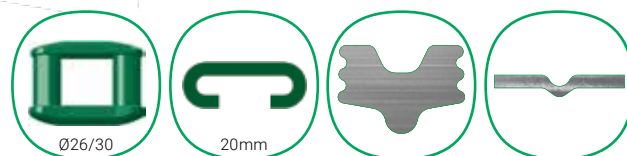
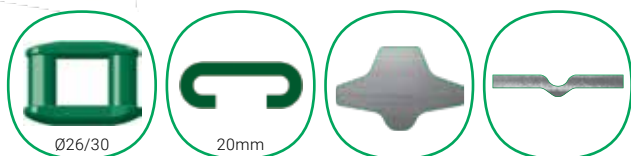


GreenTRACK COMBO MS

CMS

GreenTRACK COMBO GS

CGS



Combination of MULTI and SOFT profiles. The tracks also offer greater traction on changing terrain.

Combination of GROOVE and SOFT profiles. The tracks also offer greater traction on changing terrain.

APPLICATION:

- Demanding terrain;
- Mud and snow;
- Soft or soggy terrain;

APPLICATION:

- Demanding terrain;
- Mud and snow;
- Soft or soggy terrain;

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
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- Heat-treated material, which reduces the wear of tracks;

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cogs;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cleats;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.



GreenTRACK COMBO ES

CES

GreenTRACK MEGA

ME



Combination of EXTREM and SOFT profiles. The tracks also offer greater traction on changing terrain.

APPLICATION:

- Demanding terrain;
- Mud and snow;
- Soft or soggy terrain.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks.

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cleats;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.



The MEGA profile is an upgrade of the SOFT profile. It is developed for conditions where additional surface of the tracks is necessary - for very soggy terrains and greater side stability of the machine.

APPLICATION:

- Soft and marshy terrain;
- On terrain where minimum impact on the environment and undergrowth must be ensured.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread has been designed to have the least impact on forest ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- Option of lengthening the profile on both sides
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks.

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cleats;
- Option of zincifying;
- Option of Ø26 / Ø30mm and Ø30 / Ø35mm connectors.



Green **W-TRACK** MULTI W-MU



Intended for six-wheel forestry machines, which are meant to protect the tyres and assure better traction in the most challenging conditions. Universal form of the profile, which enables outstanding traction and stability of the machine on various types of terrain. It is suitable for steep and stony terrains and also for mud and snow.

APPLICATION:

- Demanding and rocky terrain;
- Tread for the steepest terrain.
- Substitute and upgrade of forestry chains.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- Heat-treated material, which reduces the wear of tracks.

TECHNICAL FEATURES:

- Simple shortening/lengthening of the track;
- Option of welding additional cleats;
- Option of zincifying;
- Option of Ø 26 /30 mm connectors.

Green **W-TRACK** MULTI SKIDDER W-MU-S



The Skidder option of the W-Track is intended for use on Skidder forestry machines, which are meant to protect the tyres and assure better traction in the most challenging conditions. Universal form of the profile with 2 cleats enables outstanding traction and stability of the machine on various types of terrain. It is suitable for steep and stony terrains and also for mud and snow.

APPLICATION:

- Demanding and rocky terrain;
- Mud and snow;
- Substitute of forestry chains.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- Heat-treated material, which reduces the wear of tracks.

TECHNICAL FEATURES:

- Simple shortening/lengthening of the track;
- Connection options: Ø 30/35.



Green **W-TRACK** SOFT

W-SO



Intended for six-wheel forestry machines, which are meant to protect the tyres and assure better traction in the most challenging conditions. Due to the form of the profile, it provides a great contact surface with forest ground, and, consequently, outstanding traction and stability of the machine on swampy and soft foundations. The profile with the least impact on forest ground.

APPLICATION:

- Soft and marshy terrain;
- On terrain where minimum impact on the environment and undergrowth must be ensured;
- Substitute and upgrade of forestry chains.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread has been designed to have the least impact on forest ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- Heat-treated material, which reduces the wear of tracks.

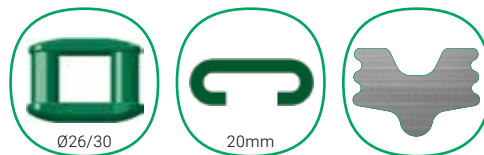
TECHNICAL FEATURES:

- Simple shortening/lengthening of the track;
- Option of welding additional cleats;
- Option of Ø 26 /30 mm connectors.



Green **W-TRACK** GROOVE

W-GR



Special form of the profile, which enables excellent traction and stability of the machine on various types of foundation. It is suitable for steep and stony terrains and also for mud and snow.

APPLICATION:

- Demanding and rocky terrain;
- Mud and snow.
- Substitute and upgrade of forestry chains.

PRODUCT PROPERTIES:

- Optimal traction on different types of ground;
- The tread shape enables excellent traction between the pneumatic tyre and track;
- The structure enables automatic cleaning while driving;
- Heat-treated material, which reduces the wear of tracks;

TECHNICAL FEATURES:

- Option of adjusting the tension on the track;
- Simple shortening/lengthening of the track;
- As it aligns itself with the pneumatic tyre, it extends its service life;
- Option of welding additional cleats;
- Option of Ø 26 /30 mm connectors.

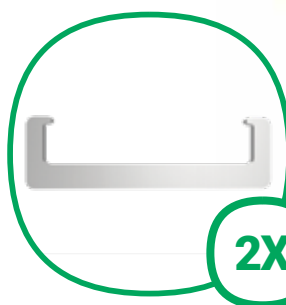


TRANSPORT

The packaging of the tracks depends on the size and length of the tracks.

- Each pair consists of at least four pieces;
- Most of them are prepared for transport by ½ pair per pallet;
- Pallet dimensions are 1200 x 1200 mm;

With an order of one pair of tracks, the client receives 8 short and 8 long assembly elements, fitted with screws and nuts and 2 assembly hooks.



2X

assembly hooks



8X

assembly link - medium



8X

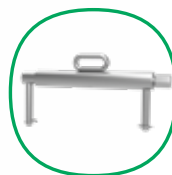
assembly link - short

MAINTENANCE

To prolong the lifetime of the tracks and their optimal use, proper maintenance is required.

- Before use, inspect whether the track is damaged and, if necessary, replace the assembly elements – this prevents unexpected breakages and production downtime;
- Check the sag in the track:
 - for proper and optimal use, the track must be properly tensioned at all times.
 - the OPTIMAL SAG is 5 cm → this reduces the wear of the track and tyres and improves traction;
- If the machine is stored for a longer period of time, it is recommended to clean the track, in order to remove soil or snow, which cause corrosion;
- It is recommended to store the tracks in a dry and covered space, protected from external influences. It is also recommended to impregnate/oil them – this substantially prolongs the lifetime of the track.

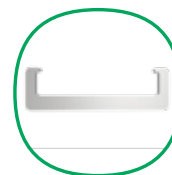
ADDITIONAL EQUIPMENT



Mounting tools
OR-MON-G-SK – ID 42494



Tracks mounting tools
OR-MON-G-INI – ID 40723



Assembly hooks
KLJ-MON-G – 33991



Assembly link - short
CMG-26X75 – ID 33921
CMG-30X75 – ID 39134



Assembly link - medium
CMG-26X120 – ID 33920
CMG-30X120 – ID 39135



Assembly link - long
CMG-26X165 – ID 40898



Assembly gloves
RM-LXL – ID 25604



Cleat
34163 ZOB 20X50X50 TO
46539 ZOB KOVAN 50 TO
46540 ZOB KOVAN 80 TO



Connecting link C
CP-C 20X50 D26 TO – ID 34552
CP-C 20X50 D30 TO – ID 38394



Connecting link
CPG-Ø 26/30 – ID 34547
CPG-Ø 30/35 – ID 38396



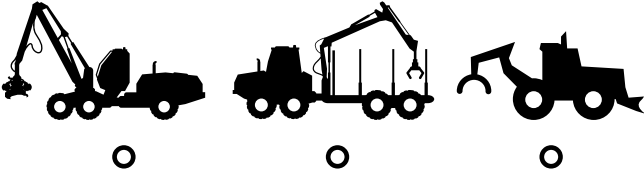
Ratchet for tightening the assembly
RA-NK 3/4" – ID 34391

QUESTIONNAIRE FOR TRACKS

Before placing an order, you must complete the following questionnaire.

Machine data:

Type of machine:



Machine brand*: _____

Type of machine*: _____

Total weight* (kg): _____

Tyre data:

Manufacturer*: _____

Profile*: _____

Dimensions*: _____

Tyre dimensions:

D* = _____ mm

B* = _____ mm

L* = _____ mm

Distance:

a = _____ mm

b* = _____ mm

GreenTRACK

protect your forest

Contact information:

Company name: _____

Company address: _____

Email: _____

Contact person: _____

Tracks data:

Terrain:

- steep terrain
- rocky terrain
- demanding terrain
- uneven terrain
- soft terrain
- very soft terrain

Additional terrain description: _____

Currently used tracks:

Brand: _____

Type of tracks: _____

* Mandatory data

