

NOVA UNDERCARRIAGE



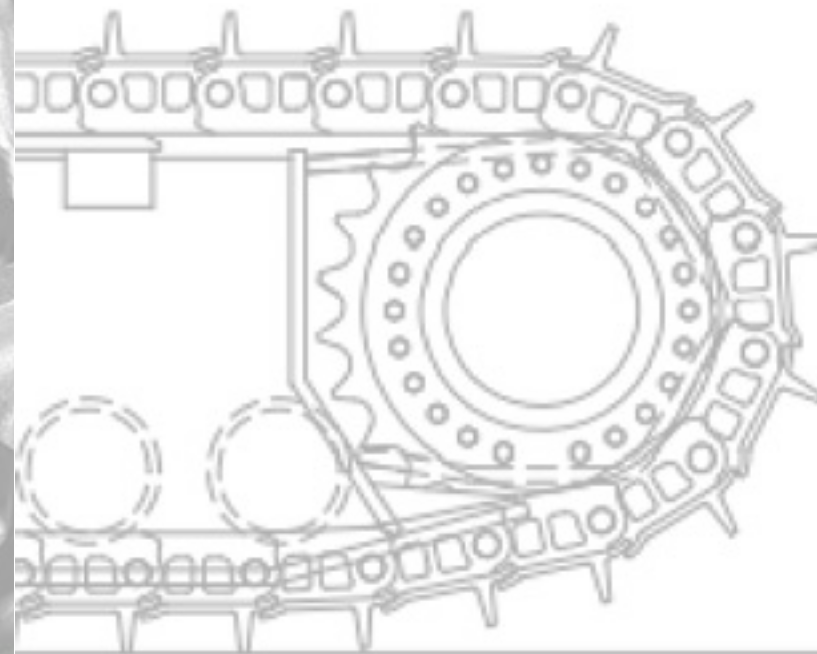


V2.0

NOVA Undercarriage: OEM Quality with Aftermarket Pricing.

You may know the name: NOVA has 12 years of experience in the heavy-equipment aftermarket and is a credible competitive player in the supply of Ground Engaging Tools.

Following a similar path with our construction, forestry and mining products, all the undercarriage is manufactured and assembled using world-class practices and technology.





Committed to Build Better

NOVA Undercarriage is built in South Korea with incredible attention to detail, resulting in better performance, higher cost-per-hour savings, and lower maintenance costs. Machinery, iron and steel are strong exports from the South Korean industrial sector. Established in 1957, Hoe Leong is a leading global manufacturer and supplier of undercarriage components for heavy equipment,

including bulldozers and excavators. Located in the South Korean undercarriage power zone, the factory is one of the world's leading undercarriage manufacturers.

From the forests of British Columbia to the oil sands of Alberta and construction sites all over North America, NOVA Undercarriage is the only choice.

Excellence and Innovation Built into Every Design

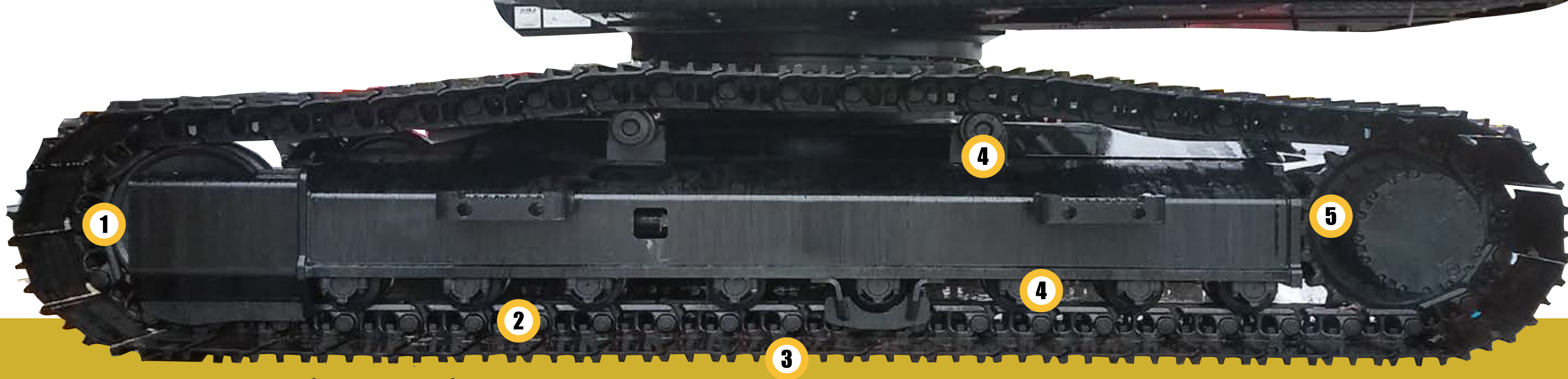
Quality Raw Materials

Boron alloy steel is used for its exceptional hardenability, strength, and wear resistance. A material that responds well to heat treatment with relatively low tempering temperatures, the use of boron steel results in lower energy consumption and reduces our manufacturing carbon footprint.



Heat Treatment

Our boron steel products go through deep induction heat treatment to achieve outstanding durability in extreme conditions and offer an extended lifespan. Our track links, pins and bushings all undergo this process of heat treatment. This ensures that our products are built for maximum strength, wear resistance and durability in the harshest terrains and environments.



Components: Engineered with Value



Idler
The idler carries the track chain around the front of the track frame.

Track Chain
The track chain includes link assemblies that connect to form a complete chain.



Track Shoes
The track shoes are installed onto the track chain.



Bottom Roller:
Single Flange

4



Bottom Roller:
Double Flange



Drive Sprocket
The drive sprockets transmit engine power to the tracks.

Check for Signs of Wear

Regularly measure and monitor the wear areas of your undercarriage to determine any issues, especially in abrasive and high-impact conditions.

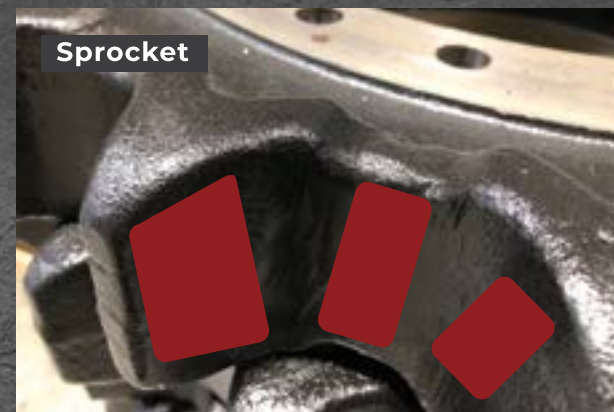
Idler
Flange Top side wear
Flange Side wear
Top Flange wear

Sprocket
Reverse drive wear
Radial wear
Forward drive side wear

Roller
Side Flange wear
Top Flange deformation

Linkage
Pin boss wear
Excessively worn side rails
Excessive facial wear

Track Shoes
Height of the lug
Wear of overlapping surfaces
Holes for expanded bolts



NOVA UNDERCARRIAGE Limited Warranty

NOVA Undercarriage warranty covers only new parts sold by QCC that are correctly installed and used in normal operations. (As per the operational manual of the machine manufacturer)

Coverage is limited to the first 4500 hours of service, three years from purchase, or 100% worn, whichever comes first.

This coverage includes crawler skidders, forestry applications and other non-traditional use equipment.

Any NOVA components that are not sold in full quantity (IE: 3 roller replacement), will have the warranty reduced by 50%.

Adjustment is determined pro-rata based on the measurement of key components or the ratio of service life received. The pro-rata value is at NOVA's determination.

If any undercarriage components are replaced due to warranty coverage listed above, with the Customer paying more than 50% of new pricing, the undercarriage warranty will restart on the newly purchased components.

Adjustment for premature dry joints in oil-lubricated chains is limited to the failed parts replaced.

Excavator track link assemblies that are seized due to periods of inactivity in high moisture environments are not considered product defects and, therefore, not eligible for warranty.

Product coverage is for:

- Components and assemblies of rollers, idlers, sprockets, chains, shoes and fasteners.
- Seal leakage in SALT (Sealed And Lubricated Track) chains, rollers and idler groups.
- Abnormal breakage of components.

How to Measure Undercarriage



Track Shoes

- Measure the with of the shoes with a tape measure and the depth of the shoes with a depth gauge.
- Count mud holes, clipped corners and the number of grouser bars.
- Measure the pad bolt hole spacing



Carrier Rollers

Use the caliper tool to measure the diameter. Be sure to measure both sides of the rollers to average out the measurements.



Front Idler

Use the depth gauge to measure the wear on the front idler.



Pitch of the Rail

Determine the pitch of the rail (the length or amount of stretch) by determining the distance between five pins, center to center, using a tape measure.



Rail Heights

- Find the underside of the track and insert the horizontal bar on the depth gauge across the bottom of a rail segment. Then run the depth indicator post up to the shoe's bottom to measure the wear on the rails.
- Measure in multiple spots to find an average.



Pin and Bushing

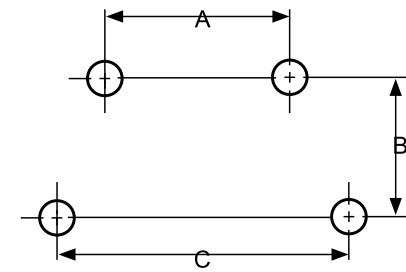
Use your pin and bushing calipers to measure the diameter of the bushing. Measure in multiple spots to find the average.



Track Sag

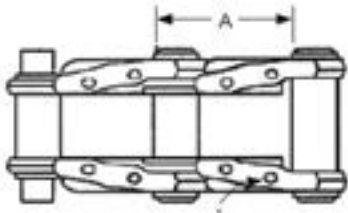
Pull a straight edge across the shoes from the back roller to the front roller. Measure how far down the track sags in the middle.

Undercarriage Measurement Form



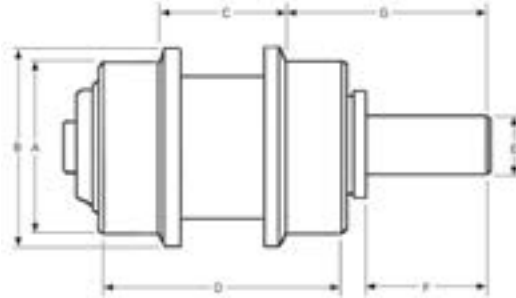
Track Shoes

Bolt Hole Spacing (A) _____
Bushing Outside Dia. (B) _____
Rail Spread Inside (C) _____
Bolt Size _____
Track Shoe Part # _____



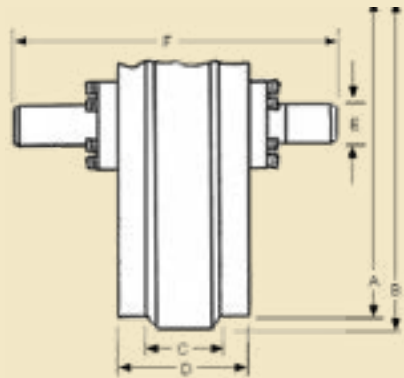
Pin and Bushings

Pitch (A) _____ Length of Pin (F) _____
Bushing Outside Dia. (B) _____ Rail to Pin Boss (G) _____
Rail Spread Inside (C) _____ Rail to Bushing (H) _____
Outside (D) _____ Bolt Size (I) _____
Link Height (E) _____ Link Part # _____



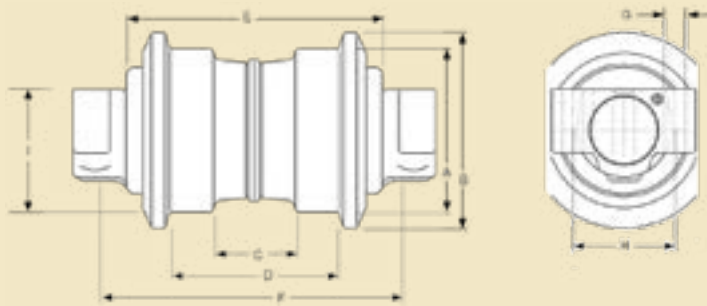
Carrier Rollers

Tread Outside Dia. (A) _____ Shaft Length (F) _____
Flange Outside Dia (B) _____ Reference Dim. (G) _____
Roller Inside (C) _____ Bolt Size _____
Outside (D) _____ Track Shoe Part # _____
Shaft Outside Dia (E) _____



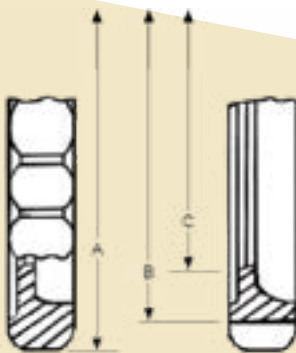
Front Idlers

Tread Outside Diameter (A) _____
Flange Outside Diameter (B) _____
Idler Inside (C) _____
Outside (D) _____
Shaft Outside Diameter (E) _____
Shaft Length (F) _____
Idler Assembly Part # _____



Bottom Rollers

Tread Outside Dia. (A) _____ (F) _____
Flange Outside Dia. (B) _____ Bolt Size (G) _____
Roller Inside (C) _____ Bolt Hole Spacing (H) _____
Outside (D) _____ Roller Frame to Tread Surface (I) _____
Roller Width (E) _____ Single Flange Part # Qty: _____
Width Between Bolt Centers Double Flange Part # Qty: _____



Sprockets

Tip Diameter (A) _____
Root Dia. (B) _____
Inner Dia. (C) _____
Sprocket Part # _____

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