



DOZER & EXCAVATOR TRACK GEAR

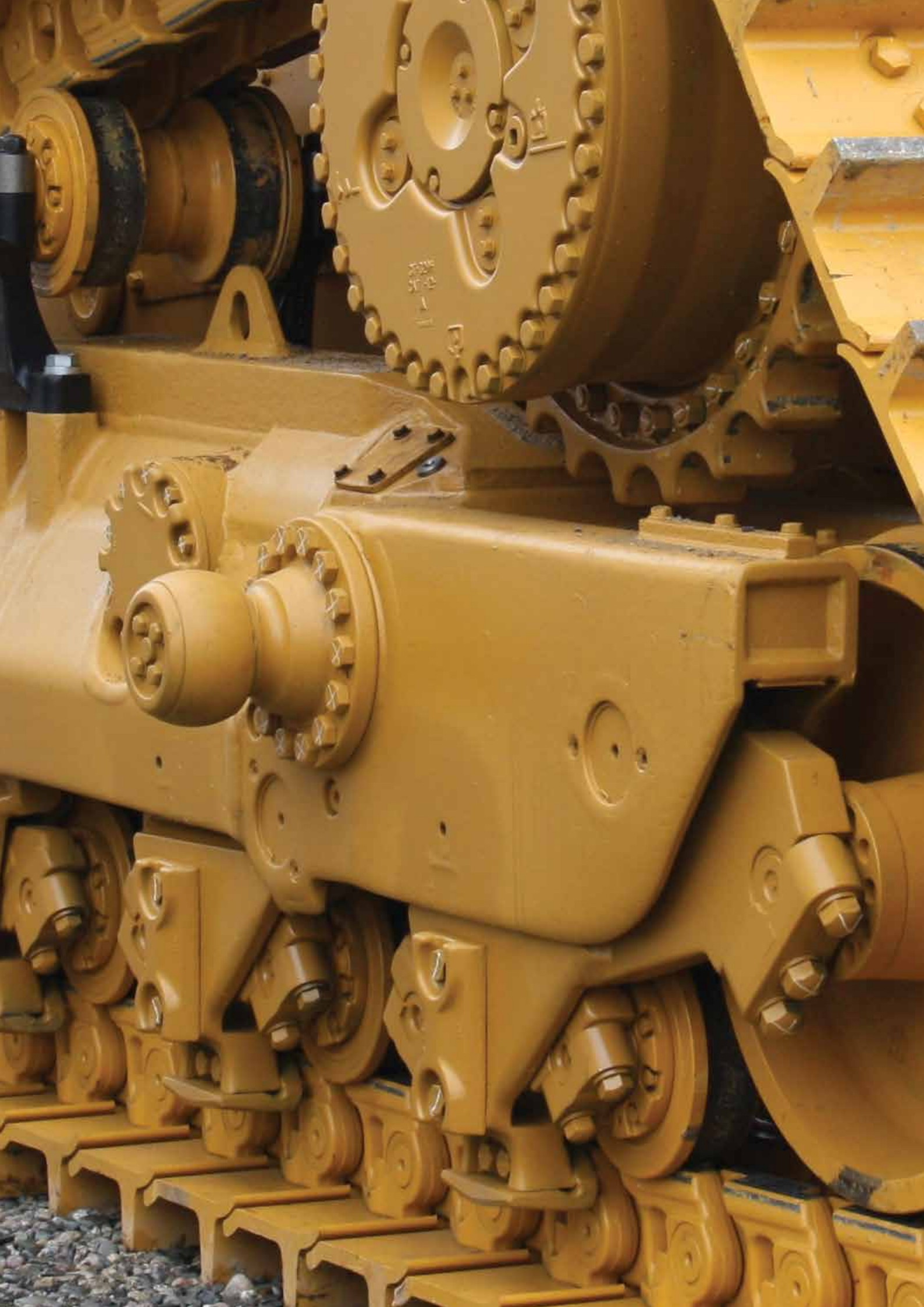
ARE YOU ON THE RIGHT TRACK? STAY ON TRACK WITH OUR HUGE RANGE
OF TRACK GEAR FOR ALL MAKES & MODELS OF DOZERS & EXCAVATORS

Call 0800 654 323 for your Track Gear needs!



West-Trak
UNRIVALLED STRENGTH

Issue Date: June 2023



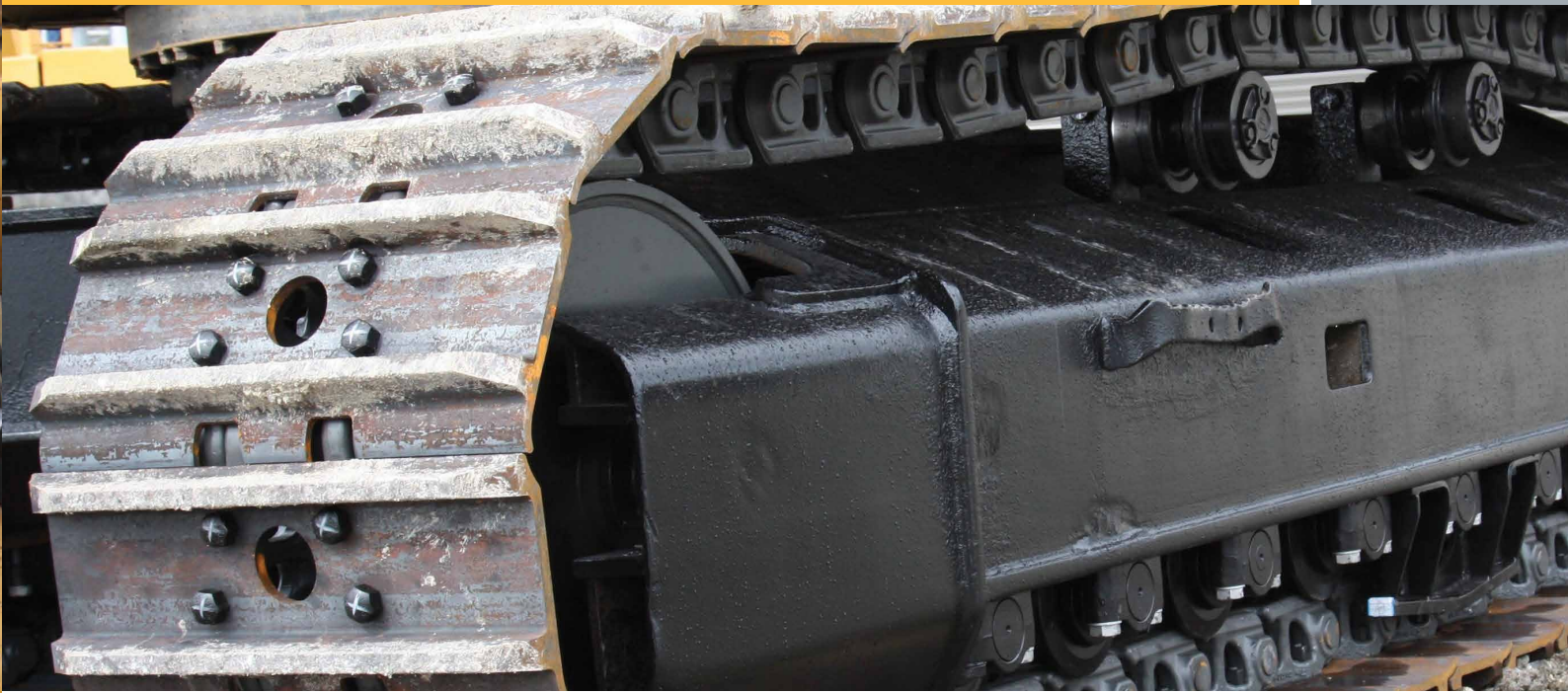
UNDERCARRIAGE

Stay on track with our huge range of Undercarriage Parts for all makes & models of Excavators, Dozers & Crawler Cranes

“12 month/2000hr warranty on all parts”

■ UNDERCARRIAGE SOLUTIONS	4
■ GREASED & SEALED EXCAVATOR CHAINS	5
■ SALT TYPE DOZER CHAINS	6
■ SPARE TRACK LINKS & PINS	7
■ EXCAVATOR TRACK GUARDS	8
■ 1 BAR DOZER SHOES	9
■ 1 BAR FORESTRY SHOES	10
■ 2 & 3 BAR EXCAVATOR SHOES	11
■ GROUSER RELUG BAR	13
■ CUSTOMISED TRACK GROUPS	15
■ ROLLERS	17
■ IDLERS	18
■ SPROCKETS & SEGMENTS	19
■ TRACK ADJUSTERS	20
■ UNDERCARRIAGE HARDWARE	21
■ UNDERCARRIAGE SERVICES	30
■ HELPFUL TRACK TIPS	35
■ TROUBLE SHOOTING & SOLUTIONS	39
■ CRAWLER CRANE UNDERCARRIAGE	49





Are you on the right track?

KEEP YOUR MACHINES ON TRACK WITH OUR LARGE RANGE OF UNDERCARRIAGE PARTS FOR MOST MAKES & MODELS OF EXCAVATORS & DOZERS

We've been the trusted Track gear specialists for over 25 years, with a huge range of Undercarriage Parts in stock, to fit most makes & models of Excavators & Dozers up to 100 tonne size. Crawler Crane track parts are also available for cranes up to 800 tonnes.

Our Track parts are high-quality aftermarket brands, which interchange with OEM fitment and are well proven in Forestry, Mining, Quarry & Construction industries, often outperforming other brands and delivering the best cost per hour.

We're committed to increasing your uptime and reducing unexpected downtime. As a one-stop-shop, you'll get trusted advice, guaranteed quality, fast service and reliable back up support to keep your machines moving.

All Undercarriage Parts have a 12 month, 2000-hour warranty (whichever comes first).

Large stocks of track parts are warehoused in Auckland & Westport to support our customers nationwide. Track Presses & bolt-up tables are also based in each of these locations.

With our team of experienced track technicians we offer a range of services including Track Shoe re-lugging, Track Group bolt ups, Pin & Bush turns, onsite Wear Measuring and technical advice.

You can rely on our expertise and huge database of machine models to deliver the right parts, fast. We know what fits your machine, so repeat ordering is quick and easy.

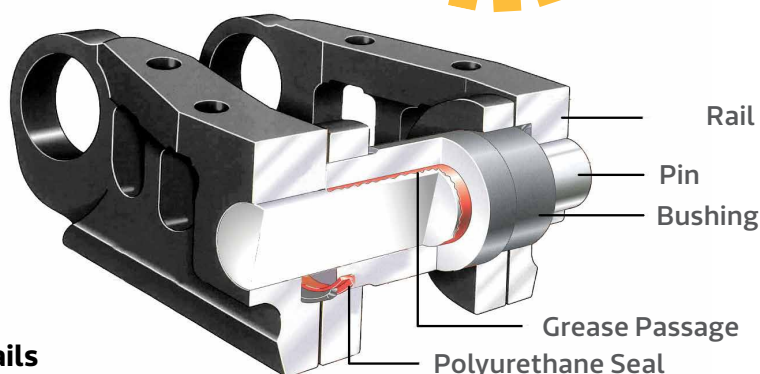
Our international network of world leading manufacturers ensures we have your Undercarriage needs covered, with access to the largest range of parts on the planet.

GREASED & SEALED EXCAVATOR CHAINS



**HIGH QUALITY, KOREAN MADE
GREASED & SEALED EXCAVATOR
CHAINS ARE AVAILABLE FOR ALL
MAKES & MODELS OF STEEL
TRACKED EXCAVATORS**

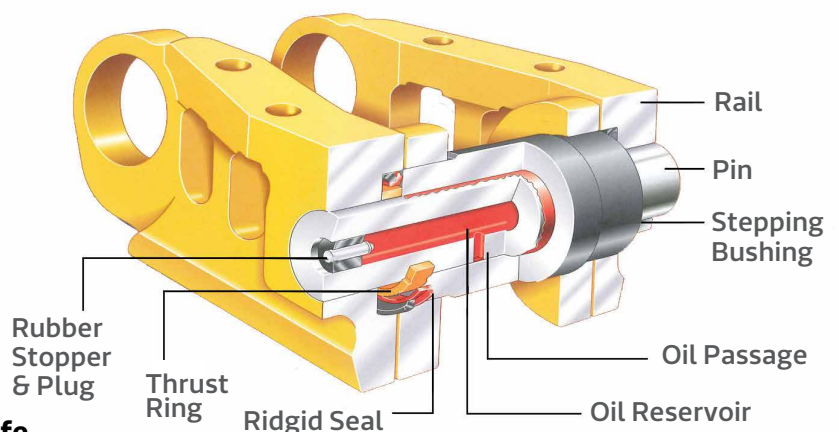
- Grease filled and sealed with polyurethane seals (not steel) for quiet operation and extended wear life
- Polyurethane seals prevent abrasives from entering the internal pin & bushing, reducing bush wear
- Internal bushing life is extended about 20% compared dry chains
- Rails are heat treated boron steel, hardened to 48-56RC up to 10mm deep for increased service life and higher wear resistance
- All Pins and Bushes are hardened to 55-60RC
- Heavy Duty EWL (Extended Wear Life) chains are available for some models. These have bigger bushes and higher rails for greater strength & extended wear life





HIGH QUALITY, KOREAN MADE SEALED & LUBRICATED DOZER CHAINS ARE AVAILABLE FOR ALL MAKES & MODELS OF BULLDOZERS

- Oil filled lubricant eliminates internal friction and wear between the pin and bushing
- Internal bushing life is extended by up to 50% compared to standard sealed tracks
- Every link is individually pressure tested for guaranteed sealing
- Rails are heat treated boron steel, hardened to 48-56RC up to 13mm deep for increased wear life and wear resistance
- Pins and bushes are hardened to 55-60RC
- Heavy Duty EWL (Extended Wear Life) chains are available for some models. These have bigger bushes and higher rails for longer service life



SPARE TRACK LINKS & PINS



- A large range of spare Track Link Kits & Master Pin Kits are available for all Greased & Sealed Excavator Chains & SALT type Dozer Chains
- These are available as individual Links pressed together with 2x Rails, 1x Bush, 1x Track Pin and 2x Seal Groups
- Master Pin Kits are available as Press fit type and T-type to suit various chains and come with 2x steel Seals



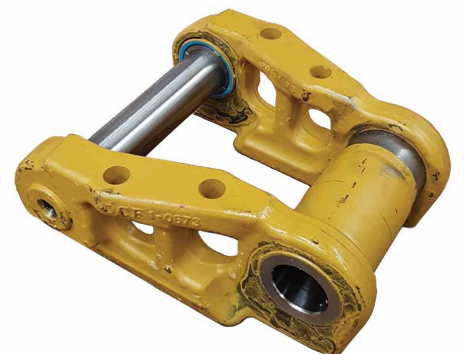
Excavator Link Kit



Press fit Master Pin



T-type Master Pin



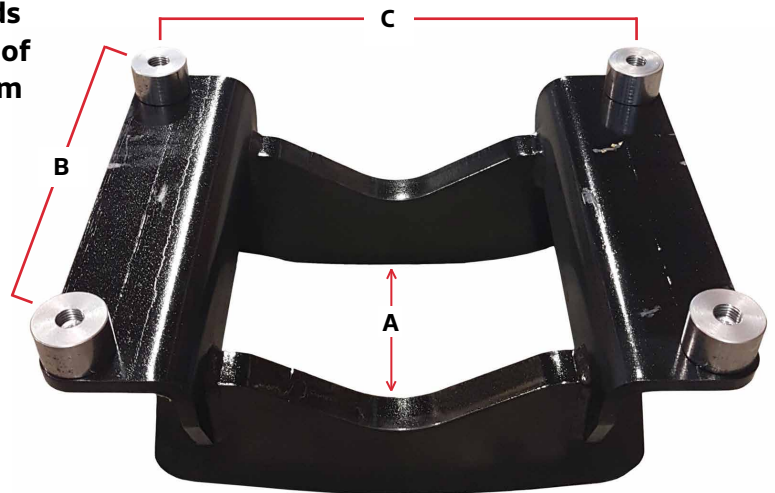
Dozer Link Kit



Stay on track with us

GET LONGER LIFE FROM YOUR EXCAVATOR CHAINS BY USING TRACK GUARDS

- High quality, custom made Track Guards are available for all makes and models of 10-40 tonne size Excavators. Made from G450 Abrasion resistant wear steel for maximum strength and wear life
- Our Track Guards have 4 x mounts that weld to your track frame and the Track Guards bolt to them. Multiple Track Guards can be fitted along the track frame to get full length protection
- Track Guards prevent your Excavator Chains from snaking and de tracking, prolonging the life of your Chains and Rollers. These are a must have for steep slope and forestry applications where roller flange wear and chain snaking can be a big issue
- All Track Guards come with 4x bolts and spring washers included



Part No/Size	A	B	C	KG
10-14_TON	200mm	280mm	235mm	14
16-24_TON	240mm	320mm	425mm	35
25-29_TON	255mm	340mm	240mm	25
30-35_TON	270mm	380mm	260mm	40
40_TON	290mm	374mm	455mm	45

1 BAR DOZER SHOES



When pushing performance matters!

MAXIMISE YOUR TRACTION & PUSHING POWER WITH OUR 1 BAR DOZER SHOES

- Standard Dozer Shoes with no mud holes are available for light duty, low abrasion applications such as agricultural and civil earthworks
- Extreme Service Shoes (ESS) are available for high impact, high abrasion applications such as Quarry, Mining and Forestry. These shoes are thicker & stronger with more wear material and resistance to bending
- Options of Round or Trapezoidal mud holes to help reduce material packing in landfill, forestry and sticky clay applications
- Large range of sizes & styles are available to suit all makes and models of Dozers



No Mud Hole



Trapezoidal Mud Hole



Round Mud Hole



Stick to the slopes safely

GET MORE GRIP & STAY SAFER ON THE SLOPES WITH OUR 1 BAR TRACK SHOES

1 BAR FORESTRY SHOES

- Heavy duty Shoe design for steep slope forestry machines, providing maximum traction and safety
- Extreme Service shoe (ESS) type which is thicker & stronger, with more resistance to wear and bending
- Options of Round or Trapezoidal mud holes to clear debris and prevent material packing in the chains
- Options of Square or Clipped lug corners for maximum slope stability & ease of turning
- Large range of shoes for all makes & models of forestry machines from 20 - 40 tonne size



Square Corners



Clipped Corners



2 & 3 BAR EXCAVATOR SHOES



2 BAR FORESTRY & MINING SHOES

- A good Shoe type for Forestry, Quarry and Mining excavators in heavy duty and high abrasion applications
- Extreme Service Shoe (ESS) type which is thicker & stronger than standard shoes
- Higher lug height providing more penetration and traction than 3 bar Shoes
- Options of Round or Trapezoidal mud holes to prevent material packing in the chains
- Large range of sizes available to suit all makes and models of excavators



Round Mud Hole



Trapezoidal Mud Hole



3 BAR STANDARD SHOES

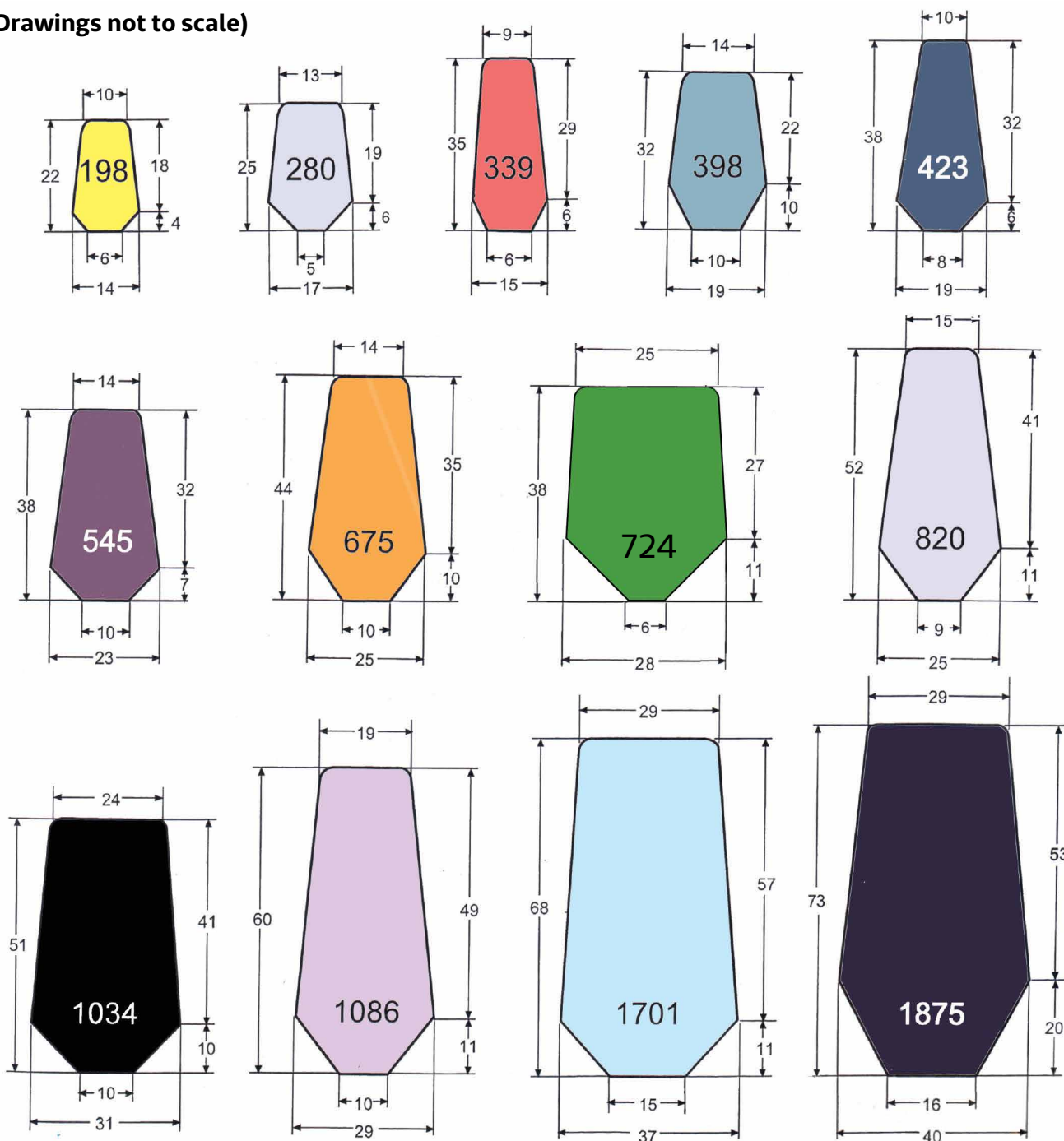
- A general purpose shoe for excavators that provides good flotation and moderate traction
- Recommended for applications that require good turning capability with minimal ground disturbance
- Oval shape mud holes to prevent material packing in the chains
- Large range of sizes available to suit all makes and models of excavators



- A great way to increase your machine's traction by re-lugging your old shoes, or enhancing your new ones
- Available in 3000mm lengths or cut to any size
- Heat treated to 450HB for long wear life
- These can be welded using low hydrogen electrodes, E7018, and Mig 71T flux core wire or equivalent



(Drawings not to scale)





Maximise your traction on forestry machines

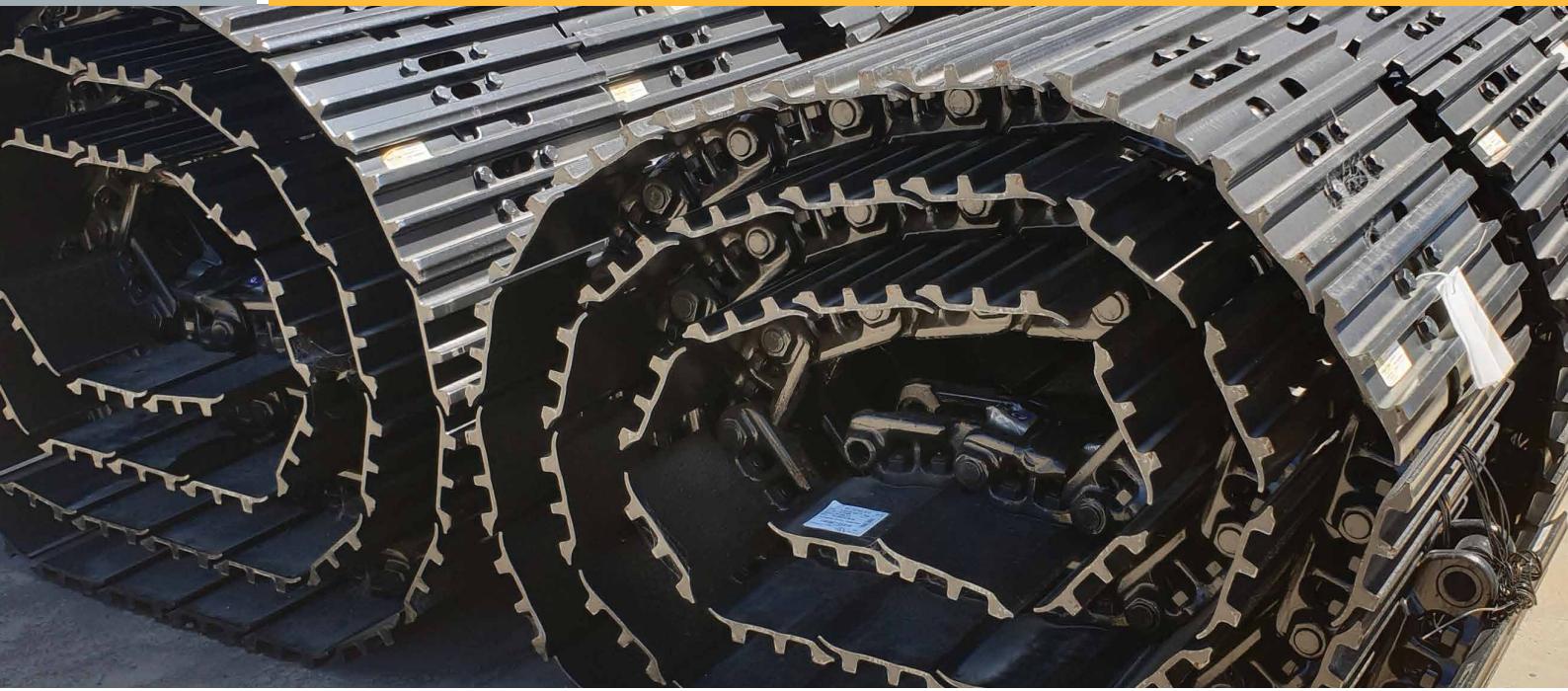
**STAY SAFE AND STICK TO THE SLOPES WITH GROUSER BAR GRIP.
THIS 'STAGGERED' GROUSER BAR PATTERN WILL DO JUST THAT**

- Better ground penetration, increasing traction
- Reduces sideways slippage on hillsides
- Less grouser bar and welding, reducing weight and downtime
- Less packing of material on top of the shoes
- Can be fitted to 1, 2 & 3 bar shoes
- Increased safety on the slopes
- Go more places, get more done

**CALL US NOW
0800 654 323**

to discuss your needs!





Ready to roll on

SAVE YOURSELF THE HASSLE OF BOLTING TRACK SHOES TO YOUR CHAINS AND BUY THEM READY TO ROLL ON AS A TRACK GROUP

We make track replacements easy by supplying Track Groups with your choice of Track Shoes already bolted on. You can just roll off the old, roll on the new and keep on tracking!

A huge range of 1, 2 & 3 Bar Track Groups are available in stock for most makes and models of Excavators & Dozers up to 100 tonne size.

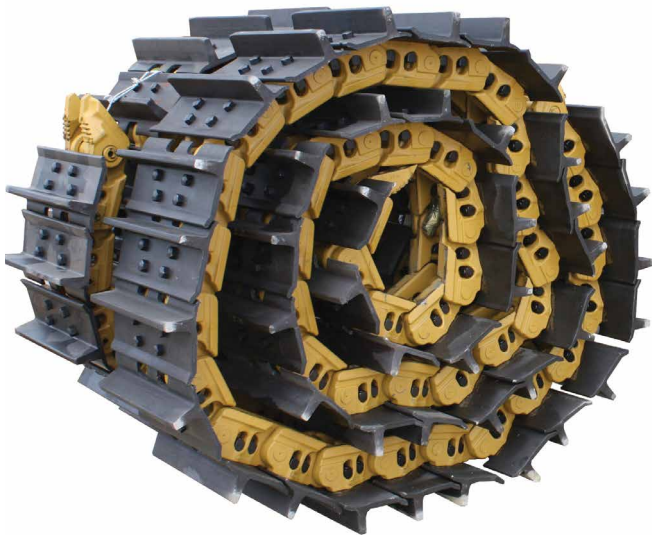
Our hydraulic nut runner and roller bed offers a fast and efficient shoe fitment, ensuring the right shoe-chain installation and correct bolt torque settings are applied.

Don't take the risk of your shoes coming loose when you're hard at work. You can trust our team of expert track technicians to get it right every time.

Get more grip with Grouser Relug Bar welded to your Track Shoes! You can boost traction on your forestry machines and stick to slopes for longer with our huge range of profiles to suit all Shoe sizes.

We can weld this Relug Bar to your new Track Shoes in various patterns to enhance your climbing performance and productivity.

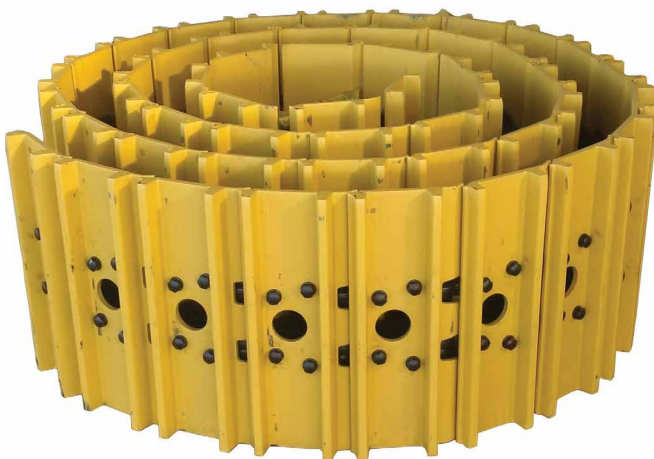




1 Bar Dozer Track Group



1 Bar Excavator Track Group



2 Bar Excavator Track Group



3 Bar Excavator Track Group



A LARGE RANGE OF ROLLERS ARE AVAILABLE TO SUIT ALL MAKES AND MODELS OF EXCAVATORS, DOZERS AND OTHER TRACKED MACHINERY

- Manufactured with reinforced flanges for increased wear life and structural reliability under severe operating conditions
- Heavy Duty Duo-Cone seal groups are fitted to guarantee perfect sealing in all working applications
- Shafts are made from forged alloy or rolled carbon steel and hardened over 3mm deep to 56-60 RC
- Roller shells are forged in two halves, welded together by friction or submerged arc then through hardened and machined



**Shaft Type
Carrier Roller**



**Bolt on Type
Carrier Roller**



**Single Flange
Track Roller**



**Double Flange
Track Roller**



**Inner Flange
Track Roller**

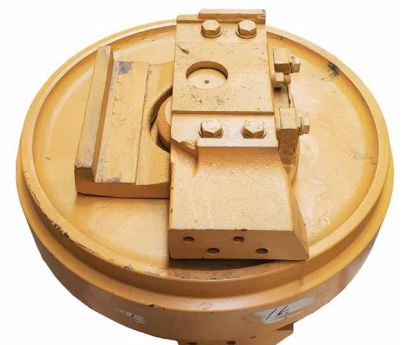


A LARGE RANGE OF IDLERS ARE AVAILABLE TO SUIT ALL MAKES AND MODELS OF EXCAVATORS, DOZERS AND OTHER TRACKED MACHINERY

- Cast idler groups come completely assembled with heavy duty Duo-Cone seal groups, shafts and/or mounting arms, blocks or brackets
- Through hardened Manganese steel is used for Idlers and Rollers, which provides high strength and good wear resistance
- Idler shells are cast or forged, depending on the design, then heat treated to 48-56 RC and machined to size
- All Idlers are made to OEM fitment specifications and are pressure tested to ensure guaranteed sealing and reliability
- 12 month/2000 hour Warranty (which ever comes first) on all Undercarriage Parts



Shaft Type
Dozer Idler



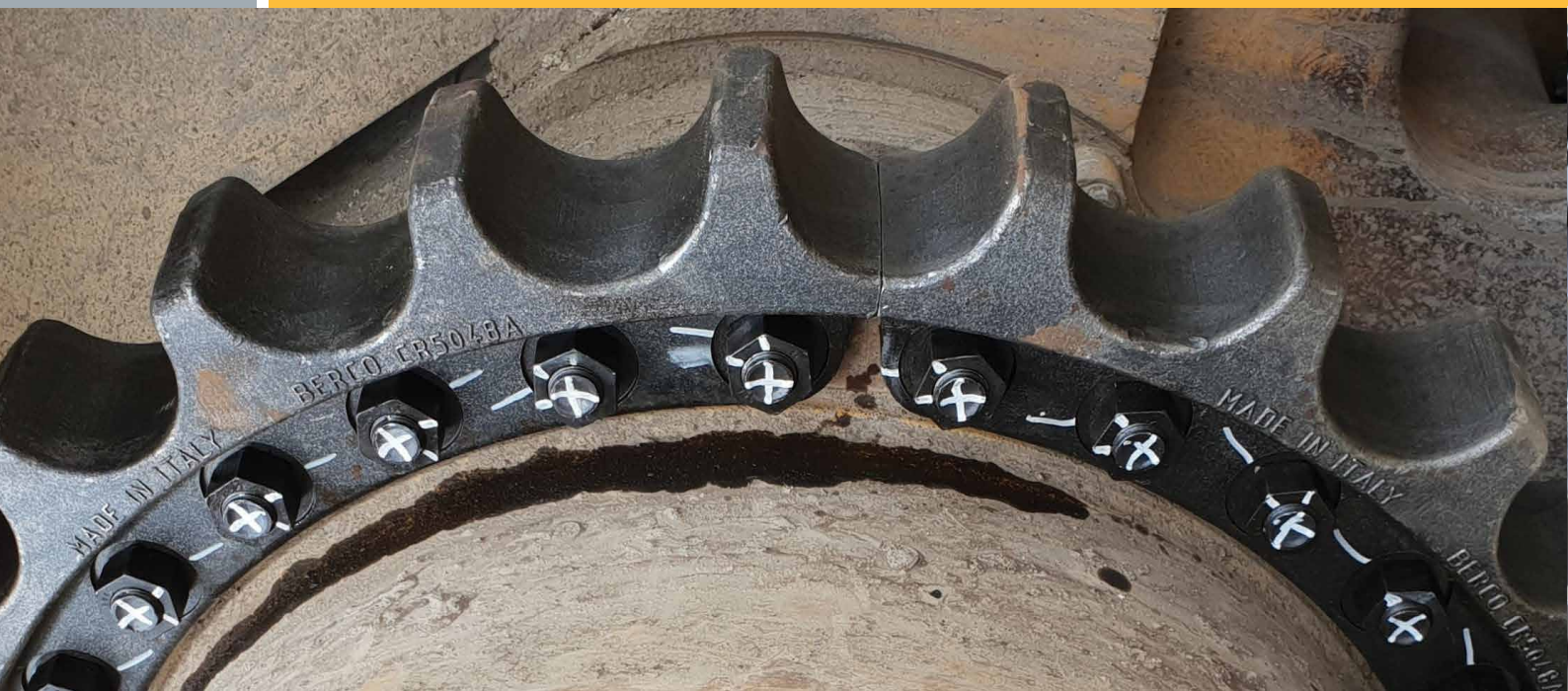
Bracket Type
Dozer Idler



Arm Type
Excavator Idler

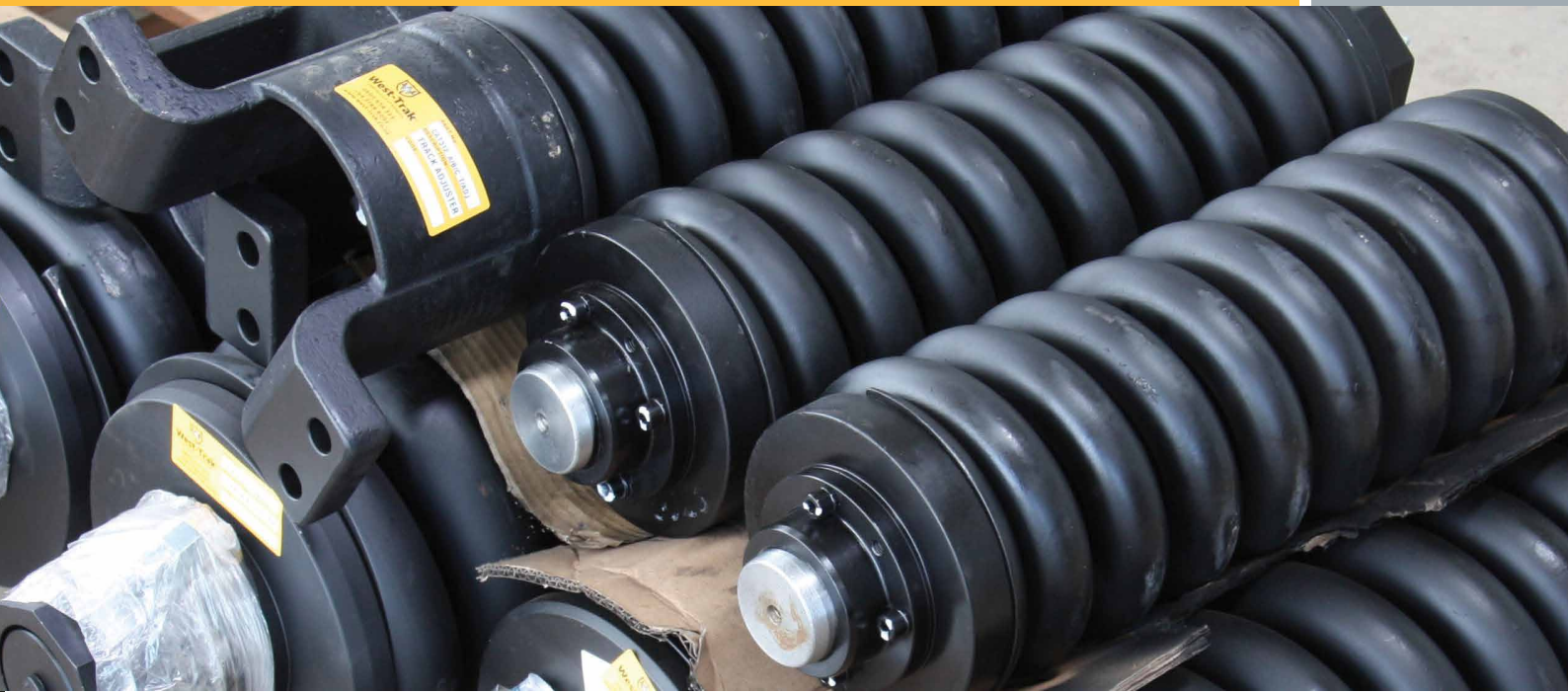


Block Type
Excavator Idler



- A large range of high quality Sprockets & Segments are available to suit all makes and models of Excavators, Dozers and other tracked machinery up to 100 tonne size
- Sprockets are made to OEM fitment specifications and manufactured from cast steel, with the external tooth profiles deep induction hardened in excess of 50RC to provide long service life
- Segments are made to OEM fitment specifications and manufactured by forging, with the tooth profiles being through hardened for extra toughness, better wear resistance and long service life

**Sprocket****Segment****Sprocket Hub**



- A large range of Track Adjusters are available to suit most makes and models of Excavators
- A Track Adjuster assembly consists of a recoil spring, cylinder and sometimes a yoke, depending on the machine model
- All Track Adjusters are manufactured to OEM fitment specifications and are fully inspected and tested to ensure reliable performance
- Maintaining proper track tension is critical for getting the longest possible undercarriage life and ensuring even wear rates. Track Adjusters are designed to absorb shock, keep proper track tension and protect the entire track system
- Weak or broken recoil springs and leaking Track Adjusters will cause unnecessary wear and tear on all Track components including, idler and roller flange wear, sprocket jumping, chain damage and de-tracking issues



HARDWARE RANGE

- A full range of Metric and Imperial Track Bolts, Sprocket/Segment Bolts, Roller Bolts and hardened washers are stocked to suit all models of tracked machines
- Track Bolts, Segment Bolts and Split Master Link Bolts are 12.9 grade
- Roller Bolts and Sprocket Bolts are 10.9 grade
- All hardware is forged from alloy steels and heat treated to the specifications of OEM

**TRACK BOLTS & NUTS****SPROCKET /SEGMENT BOLTS & NUTS****SPLIT MASTER LINK BOLTS****ROLLER BOLTS****INSTALLATION NOTES:**

- Remove all paint and scale from points of connection
- Clean bolt holes from all grease and foreign materials
- Align parts together and thread bolts in by hand or with a rattle gun before applying the final torque setting
- Install self-interlocking, HD cone type track nuts with rounded corners against the link
- Tighten ALL bolts 70% of torque rating before applying the final torque value
- It is recommended to use OEM torque settings for all roller and sprocket bolts

TRACK BOLTS & NUTS - METRIC RANGE

Size	Part Type	Part No	Pitch	Grade
M12x39mm	Track Bolt	M12X39X1.5P	1.5P	12.9
M12mm	Track Nut Square	M12_SQUARE	1.5P	12.9
M14x39mm	Track Bolt	M14X39X1.5P	1.5P	12.9
M14x45mm	Track Bolt	911407	1.5P	12.9
M14x56mm	Track Bolt	911408	1.5P	12.9
M14mm	Track Nut Square	970114	1.5P	12.9
M16x46mm	Track Bolt	911607	1.5P	12.9
M16mm	Track Nut Square	M16SQ	1.5P	12.9
M18x57mm	Track Bolt	911809	1.5P	12.9
M18mm	Track Nut Square	970118	1.5P	12.9
M20x60mm	Track Bolt	912009	1.5P	12.9
M20x63mm	Track Bolt - stepped shank	912008	1.5P	12.9
M20x68mm	Track Bolt	912011	1.5P	12.9
M20x85mm	Track Bolt	M20X85X1.5P	1.5P	12.9
M20mm	Track Nut Square	970120	1.5P	12.9
M22x55mm	Track Bolt	912255	2.0P	12.9
M22x66mm	Track Bolt - stepped shank	912200	1.5P	12.9
M22x70mm	Track Bolt	M22X70X1.5P	1.5P	12.9
M22mm	Track Nut Square	970122	1.5P	12.9
M24x68mm	Track Bolt - stepped shank	150-4741	1.5P	12.9
M24x76mm	Track Bolt	912412	1.5P	12.9
M24mm	Track Nut Square	970124	1.5P	12.9
M27x82mm	Track Bolt	KM263	1.5P	12.9
M27x92mm	Track Bolt	4218740	2.0P	12.9
M27mm	Track Nut Square	KM264	1.5P	12.9



Track Bolt



Track Nut



Track Nut HD Cone Type

TRACK BOLTS & NUTS - IMPERIAL RANGE

Size	Part Type	Part No	Pitch	Grade
1/2"x1.11/16"	Track Bolt - stepped shank	890821	20-UNF	12.9
1/2"	Track Nut Square	950108	20-UNF	12.9
5/8"x1.13/16"	Track Bolt	891004	18-UNF	12.9
5/8"x2.3/32"	Track Bolt	891006	18-UNF	12.9
5/8"x2.5/32"	Track Bolt - stepped shank	891046	18-UNF	12.9
5/8"	Track Nut Square	950110	18-UNF	12.9
3/4"x2.5/32"	Track Bolt	891206	16-UNF	12.9
3/4"x2.13/32"	Track Bolt - stepped shank	891210	16-UNF	12.9
3/4"x2.5"	Track Bolt	7H3598	16-UNF	12.9
3/4"x105mm	Track Bolt	6T2162	16-UNF	12.9
3/4"	Track Nut Square	950112	16-UNF	12.9
7/8"x2.21/32"	Track Bolt - stepped shank	891410	14-UNF	12.9
7/8"x3.27/64"	Track Bolt	891435	14-UNF	12.9
7/8"	Track Nut Square	950114	14-UNF	12.9
1"x3.35/64"	Track Bolt	891631	14-UNS	12.9
1"	Track Nut Square HD Cone Type	950121	14-UNS	12.9
1.1/8"x3.25/32"	Track Bolt	7T1000	14-UNF	12.9
1.1/8"	Track Nut Square HD Cone Type	5P8221	14-UNF	12.9
1.3/8"x4.1/4"	Track Bolt	6T-8853	12-UNF	12.9
1.3/8"	Track Nut Square HD Cone Type	3T-6292	12-UNF	12.9



Track bolt torque settings

FINAL TORQUE SETTING METHOD

Metric Thread - Grade 12.9	
Bolt Size	Final Torque ft-lb
M12 x 1	118 ± 6
M14 x 1.5	177 ± 7
M16 x 1.5	273 ± 15
M18 x 1.5	398 ± 22
M20 x 1.5	553 ± 30
M22 x 1.5	752 ± 37
M24 x 1.5	995 ± 50
M27 x 1.5	1423 ± 74
M30 x 2	1917 ± 96
M33 x 2	2754 ± 125

UNF Imperial Thread - Grade 12.9	
Bolt Size	Final Torque ft-lb
7/16" - 20 UNF	88 ± 5
1/2" - 20 UNF	133 ± 7
9/16" - 18 UNF	192 ± 7
5/8" - 18 UNF	265 ± 15
3/4" - 16 UNF	472 ± 22
7/8" - 14 UNF	752 ± 37
1" - 14 UNF	1150 ± 59
1.1/8" - 12 UNF	1630 ± 81
1.1/4" - 12 UNF	2198 ± 110
1.3/8" - 12 UNF	3053 ± 155

PRE-TORQUE PLUS ADDITIONAL 1/3 TURN METHOD

Metric Thread - Grade 12.9		
Bolt Size	Initial Pre-Torque ft-lb	Final Torque Additional Turn
M12 x 1	-	-
M14 x 1.5	185 ± 18	+ 1/3 Turn
M16 x 1.5	130 ± 30	+ 1/3 Turn
M18 x 1.5	-	-
M20 x 1.5	300 ± 50	+ 1/3 Turn
M22 x 1.5	370 ± 50	+ 1/3 Turn
M24 x 1.5	370 ± 50	+ 1/3 Turn
M27 x 1.5	400 ± 50	+ 1/3 Turn
M30 x 2	-	-
M33 x 2	-	-

UNF Imperial Thread - Grade 12.9		
Bolt Size	Initial Pre-Torque ft-lb	Final Torque Additional Turn
7/16" - 20 UNF	-	-
1/2" - 20 UNF	165 ± 15	+ 1/3 Turn
9/16" - 18 UNF	65 ± 15	+ 1/3 Turn
5/8" - 18 UNF	130 ± 30	+ 1/3 Turn
3/4" - 16 UNF	300 ± 50	+ 1/3 Turn
7/8" - 14 UNF	250 ± 50	+ 1/3 Turn
1" - 14 UNF	400 ± 50	+ 1/3 Turn
1.1/8" - 12 UNF	650 ± 50	+ 1/3 Turn
1.1/4" - 12 UNF	-	-
1.3/8" - 12 UNF	1100 ± 110	+ 1/3 Turn

NOTES: These torque settings are a guide only. Please refer to your machine manual to Confirm.



Track Bolt



Track Nut

ROLLER BOLTS - METRIC RANGE

Size	Part Type	Part No	Pitch	Grade
M12x70mm	Roller Bolt	M12X70X1.75P	1.75P	G10.9
M14x55mm	Roller Bolt	M14X55X2.0P	2.0P	G10.9
M14x65mm	Roller Bolt	M14X65X2.0P	2.0P	G10.9
M16x60mm	Roller Bolt	M16X60X2.0P	2.0P	G10.9
M16x65mm	Roller Bolt	M16X65X2.0P	2.0P	G10.9
M16x70mm	Roller Bolt	M16X70X2.0P	2.0P	G10.9
M16x75mm	Roller Bolt	M16X75X2.0P	2.0P	G10.9
M16x80mm	Roller Bolt	M16X80X2.0P	2.0P	G10.9
M16x85mm	Roller Bolt	M16X85X2.0P	2.0P	G10.9
M16x90mm	Roller Bolt	M16X90X2.0P	2.0P	G10.9
M18x65mm	Roller Bolt	M18X65X2.5P	2.5P	G10.9
M18x75mm	Roller Bolt	M18X75X2.5P	2.5P	G10.9
M18x80mm	Roller Bolt	M18X80X2.5P	2.5P	G10.9
M18x90mm	Roller Bolt	M18X90X2.5P	2.5P	G10.9
M18x100mm	Roller Bolt	M18X100X2.5P	2.5P	G10.9
M20x70mm	Roller Bolt	M20X70X2.5P	2.5P	G10.9
M20x90mm	Roller Bolt	M20X90X2.5P	2.5P	G10.9
M20x95mm	Roller Bolt	M20X95X2.5P	2.5P	G10.9
M20x100mm	Roller Bolt	M20X100X2.5P	2.5P	G10.9
M20x110mm	Roller Bolt	M20x110x2.5P	2.5P	G10.9
M22x100mm	Roller Bolt	M22X100X2.5P	2.5P	G10.9
M22x110mm	Roller Bolt	M22X110X2.5P	2.5P	G10.9
M22x120mm	Roller Bolt	M22X120X2.5P	2.5P	G10.9
M22x150mm	Roller Bolt	M22X150X2.5P	2.5P	G10.9
M22x75mm	Roller Bolt	M22X75X2.5P	2.5P	G10.9
M22x90mm	Roller Bolt	M22X90X2.5P	2.5P	G10.9
M24x110mm	Roller Bolt	M24X110X3.0P	3.0P	G10.9
M24x120mm	Roller Bolt	M24X120X3.0	3.0P	G10.9
M30x120mm	Roller Bolt	7X-2583	3.5P	G10.9

**Roller Bolt**

ROLLER BOLTS - IMPERIAL RANGE

Size	Part Type	Part No	Pitch	Grade
5/8"x2.1/2"	Roller Bolt	0S1625	11-UNC	G12.9
5/8"x2.1/4"	Roller Bolt	8S9092	11-UNC	G12.9
5/8"x2.3/4"	Roller Bolt	1A8537	11-UNC	G12.9
5/8"x3.1/4"	Roller Bolt	0S-2318	11-UNC	G12.9
5/8"x3.3/4"	Roller Bolt	0L1169	11-UNC	G10.9
3/4"x2.3/4"	Roller Bolt	ID-4608	10-UNC	G12.9
3/4"x3.1/4"	Roller Bolt	ID4610	10-UNC	G12.9
7/8"x3.1/2"	Roller Bolt	ID-4629	9-UNC	G12.9
7/8"x86mm	Roller Bolt	6T1140	9-UNC	G12.9
7/8"x5"	Roller Bolt	19H2702	9-UNC	G12.9
1"x97mm	Roller Bolt	6T1139	8-UNC	G12.9
1"x4.1/4"	Roller Bolt	ID-4640	8-UNC	G12.9
1"x7"	Roller Bolt	2438A700	8-UNC	G12.9

SPROCKET BOLTS

Size	Part Type	Part No	Pitch	Grade
M16x35mm	Sprocket Bolt	M16X35X2.0P	2.0P	10.9
M16x45mm	Sprocket Bolt	M16X45X2.0P	2.0P	10.9
M16x50mm	Sprocket Bolt	M16X50X2.0P	2.0P	10.9
M16x55mm	Sprocket Bolt	M16X55X2.0P	2.0P	10.9
M18x45mm	Sprocket Bolt	M18X45X2.5P	2.5P	10.9
M18x50mm	Sprocket Bolt	M18X50X2.5P	2.5P	10.9
M18x60mm	Sprocket Bolt	M18X60X2.5P	2.5P	10.9
M20x45mm	Sprocket Bolt	M20X45X2.5P	2.5P	10.9
M20x50mm	Sprocket Bolt	M20X50X2.5P	2.5P	10.9
M20x55mm	Sprocket Bolt	M20X55X2.5P	2.5P	10.9
M20x60mm	Sprocket Bolt	M20X60X2.5P	2.5P	10.9
M20x65mm	Sprocket Bolt	M20X65X2.5P	2.5P	10.9
M22x50mm	Sprocket Bolt	M22X50X2.5P	2.5P	10.9
M22x60mm	Sprocket Bolt	M22X60X2.5P	2.5P	10.9
M22x65mm	Sprocket Bolt	M22X65X2.5P	2.5P	10.9
M22x70mm	Sprocket Bolt	M22X70X2.5P	2.5P	10.9
M24x60mm	Sprocket Bolt	M24X60X3.0P	3.0P	10.9
M24x70mm	Sprocket Bolt	M24X70X3.0P	3.0P	10.9
M24x75mm	Sprocket Bolt	M24X75X3.0P	3.0P	10.9
M30x90xmm	Sprocket Bolt	J833090	3.0P	10.9

SEGMENT BOLTS & NUTS - METRIC RANGE

Size	Part Type	Part No	Pitch	Grade
M18x61mm	Segment Bolt	931861	1.5P	12.9
M18mm	Segment Nut Hex	960118	1.5P	12.9
M20x64mm	Segment Bolt	295-7802	1.5P	10.9
M20mm	Segment Nut Hex	8T-3573	1.5P	12.9
M22x71mm	Segment Bolt	932271	1.5P	12.9
M22mm	Segment Nut Hex	960122	1.5P	12.9
M24x80mm	Segment Bolt	932479	1.5P	12.9
M24mm	Segment Nut Hex	962401	1.5P	12.9
M24x90mm	Segment Bolt	195-27-12630	1.5P	12.9

SEGMENT BOLTS & NUTS - IMPERIAL RANGE

Size	Part Type	Part No	Pitch	Grade
5/8"x1.7/8"	Segment Bolt	941054	18-UNF	12.9
5/8"x2.7/64"	Segment Bolt	941057	18-UNF	12.9
5/8"	Segment Nut Hex	960310	18-UNF	12.9
3/4"x2.3/8"	Segment Bolt	3S0336	16-UNF	12.9
3/4"x2.1/2"	Segment Bolt	941268	16-UNF	12.9
3/4"	Segment Nut Hex	960312	16-UNF	12.9
7/8"x2.9/16"	Segment Bolt	9S2727	14-UNF	12.9
7/8"x3"	Segment Bolt	941464	14-UNF	12.9
7/8"	Segment Nut Hex	960314	14-UNF	12.9
1"x3"	Segment Bolt	5P0233	14-UNS	12.9
1"x92mm	Segment Bolt	5P-5422	14-UNF	10.9
1"	Segment Nut Hex	2M-5656	14-UNF	12.9

**Sprocket Bolt****Segment Bolt****Segment Nut**



Split Master Link Bolt torque settings

PRE-TORQUE PLUS ADDITIONAL $\frac{1}{3}$ TURN METHOD

Metric Thread - Grade 12.9		
Bolt Size	Initial Pre-Torque ft-lb	Final Torque Additional Turn
M12 x 1	-	-
M14 x 1.5	185 ± 18	+ $\frac{1}{3}$ Turn
M16 x 1.5	130 ± 30	+ $\frac{1}{3}$ Turn
M18 x 1.5	-	-
M20 x 1.5	300 ± 50	+ $\frac{1}{3}$ Turn
M22 x 1.5	370 ± 50	+ $\frac{1}{3}$ Turn
M24 x 1.5	370 ± 50	+ $\frac{1}{3}$ Turn
M27 x 1.5	400 ± 50	+ $\frac{1}{3}$ Turn
M30 x 2	-	-
M33 x 2	-	-

UNF Imperial Thread - Grade 12.9		
Bolt Size	Initial Pre-Torque ft-lb	Final Torque Additional Turn
7/16" - 20 UNF	-	-
1/2" - 20 UNF	165 ± 15	+ $\frac{1}{3}$ Turn
9/16" - 18 UNF	65 ± 15	+ $\frac{1}{3}$ Turn
5/8" - 18 UNF	130 ± 30	+ $\frac{1}{3}$ Turn
3/4" - 16 UNF	300 ± 50	+ $\frac{1}{3}$ Turn
7/8" - 14 UNF	250 ± 50	+ $\frac{1}{3}$ Turn
1" - 14 UNF	400 ± 50	+ $\frac{1}{3}$ Turn
1.1/8" - 12 UNF	650 ± 50	+ $\frac{1}{3}$ Turn
1.1/4" - 12 UNF	-	-
1.3/8" - 12 UNF	1100 ± 110	+ $\frac{1}{3}$ Turn

NOTES: These torque settings are a guide only. Please refer to your machine manual to Confirm.

Split master link joining Instructions

**FOR SALT TYPE DOZER CHAINS THAT HAVE
AN ALLIGATOR STYLE JOINING LINK**

WARNING

Install the new track chain according with safety precautions and procedures explained in your machine Operation and Maintenance Manual and/or Service and Repair Manual.

Failure to follow these recommendations and instructions could result in damages to your machine and track chain components

IMPORTANT NOTES

- Remove all grease or foreign matter from the bolt holes
- Remove all paint from mating surfaces of the links and shoes
- Ensure bolts are clean and apply anti-seize compound to the threads

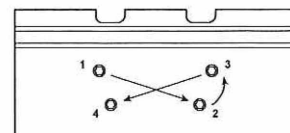
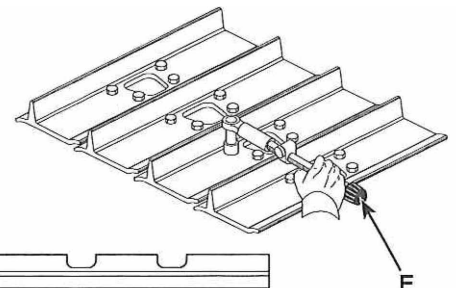
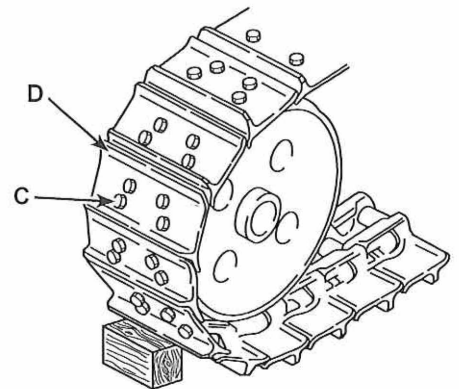
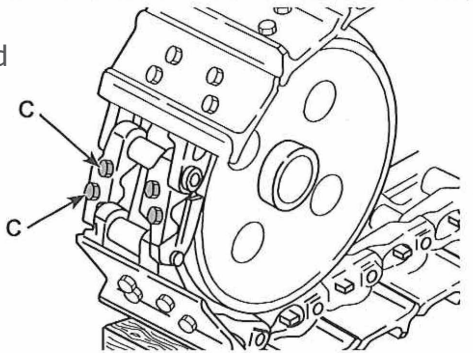
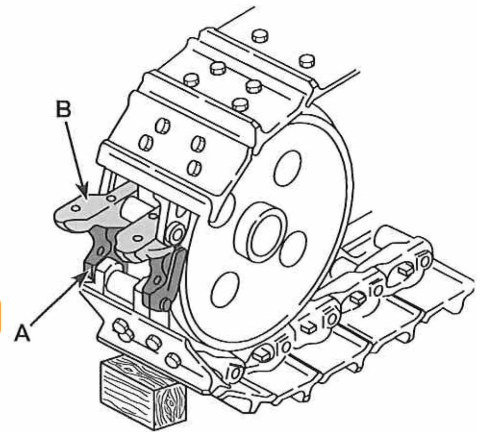
1. Engage the master links (A) & (B) and check the bolt hole alignment. Screw in the four bolts (C) without fitting the shoes (the bolts must go easily in by hand). Do not force the track bolts into misaligned holes; damage to bolt and link threads will occur.

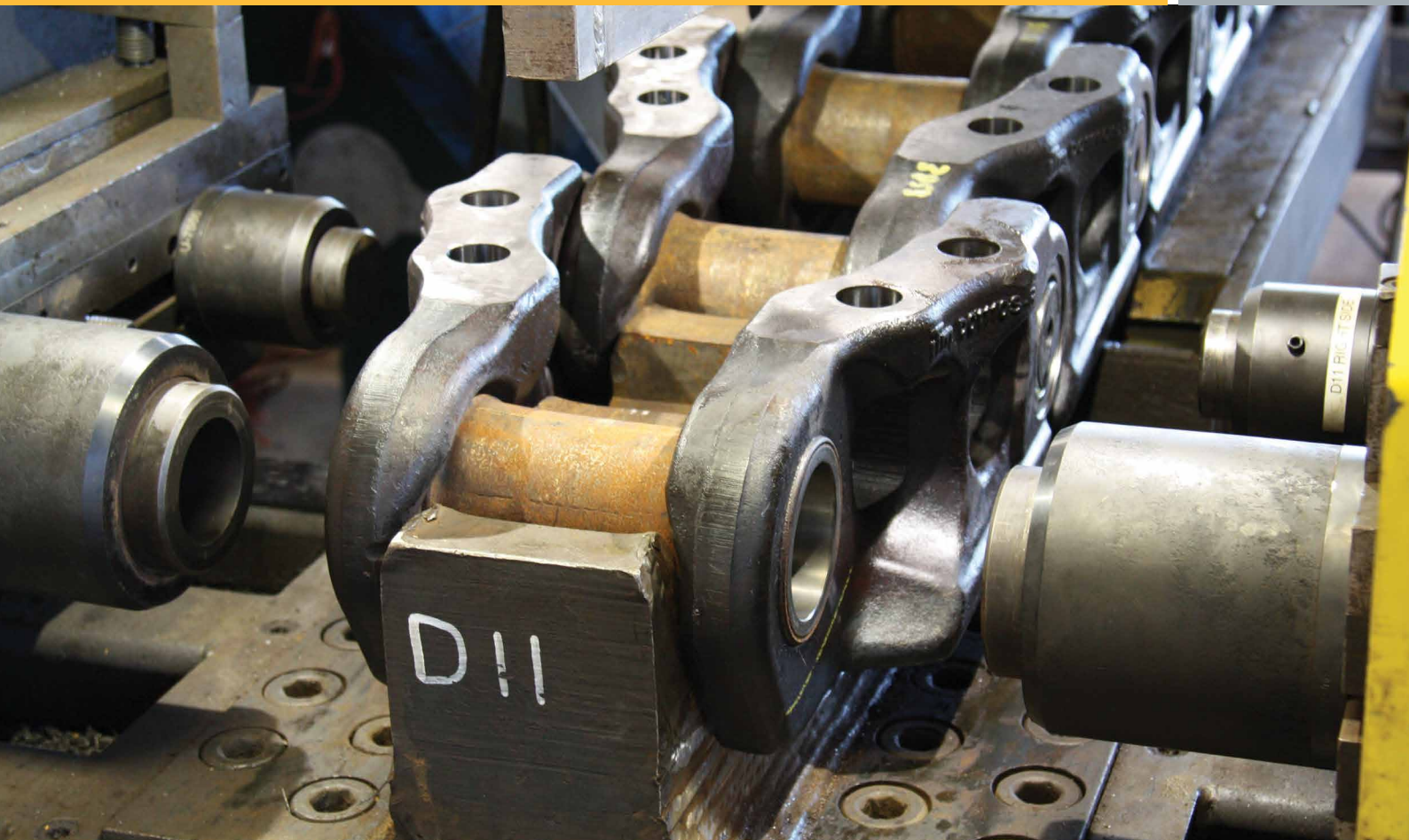
2. Remove the four bolts (C).

3. Position the track shoe (D) on the master link by aligning the bolt holes, then screw up all four bolts (C) fully by hand. Check that the split master link mating faces remains precisely aligned.

4. Use a suitable torque wrench (E) to tighten the four bolts (C). Tighten the bolts in order 1 to 4 as shown.

5. After installation, check the master shoe bolts (C) tightening torque after the first 100 machine working hours and again after 500 working hours.





Pin & bush turns

TRACK RE-BUILDING IS A GREAT WAY TO GET MORE FROM YOUR CHAINS & SHOES

Keeping your tracks properly maintained and in top working order is critical for getting the longest possible service life & return on investment.

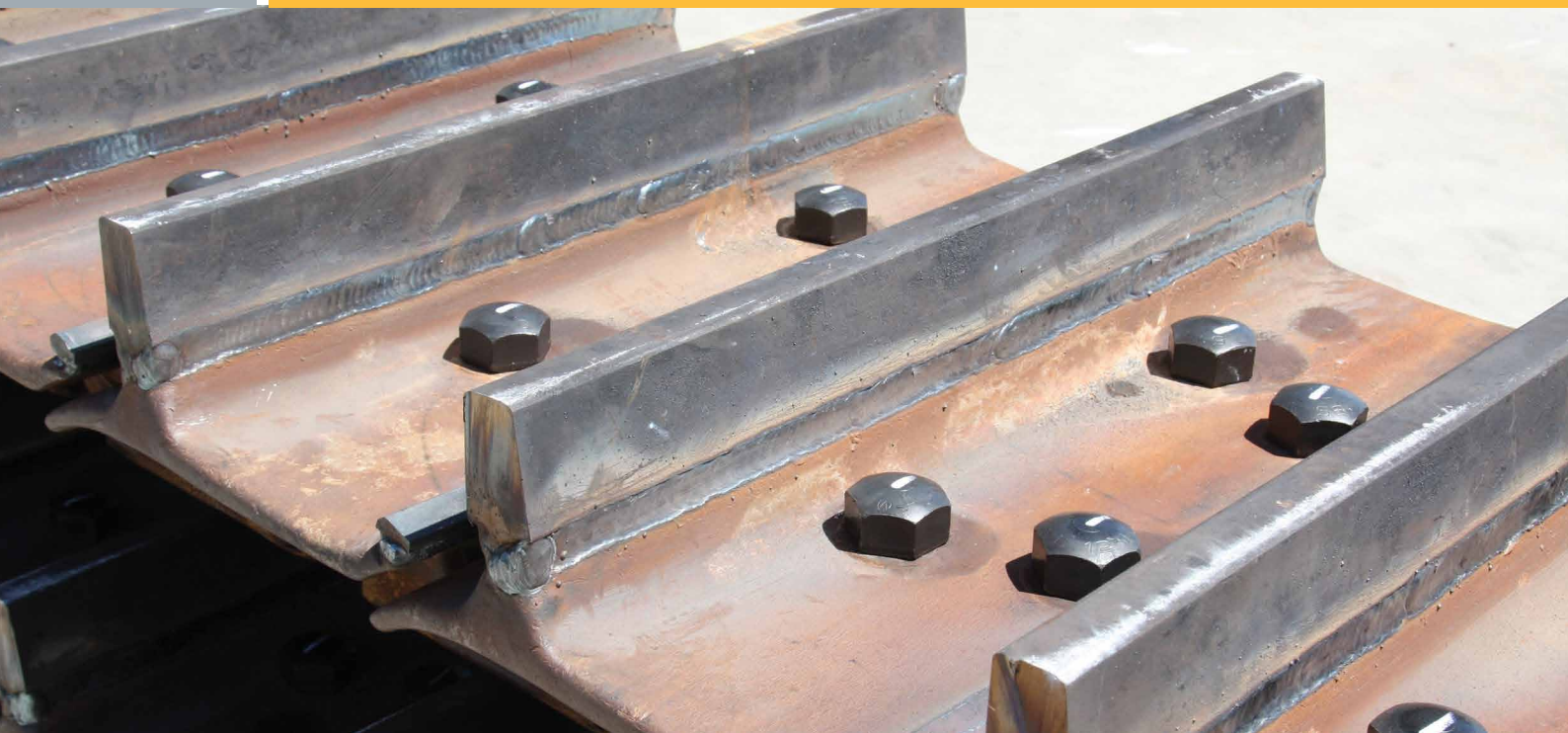
With a 200 tonne hydraulic track press at our Auckland branch & a 400 tonne track press in Westport, we can service up to D11/D475 size Bulldozer SALT chains and 200 tonne size Excavator chains, for pin and bush turns and other repairs.

The track rebuild process involves removing the track shoes, disassembling the chain and carefully inspecting each & every track component for excessive wear or damage.

The chain is then assembled back together by fitting post turn seals, turning the bushes around 180 degrees, refilling the pins with oil & refitting the track shoes.

It is recommended for large Dozer Chains to have a mid-life pin & bush turn to maximise the useful service life of the chains and ensure even wear rates of the chain components. Our team of experienced Undercarriage technicians have the know-how to deliver a complete roll off roll on, hassle free rebuild service you can rely on.

Get in touch with West-Trak for your pin & bush turn needs today! 0800 654 323



Track shoe re-lugging

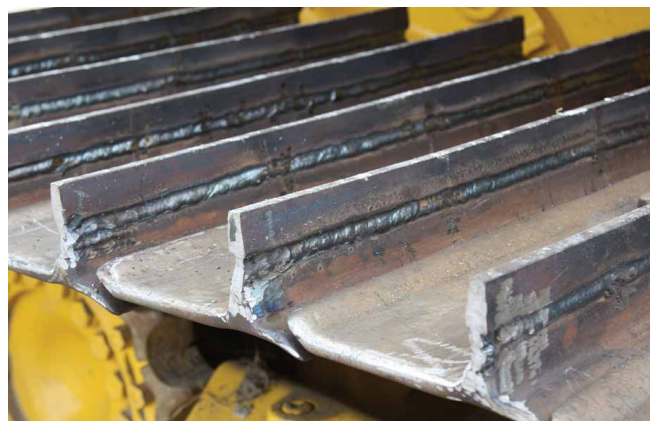
INCREASE TRACTION WITH GROUSER RELUG BAR WELDED ON YOUR TRACK SHOES

Extend your track shoe life & get more grip, with Grouser Relug Bars welded on. This bar is a quick and effective way to rebuild your old shoes or enhance your new shoes to maximise traction for any application.

The lug height of your shoes is an important factor for track shoe strength & machine performance. Different patterns of grouser bars can be fitted to any size Excavator or Dozer shoes.

Forestry machines require extended lug heights to help stick to the slopes, safely. Bulldozers need to maintain a high lug height to ensure good pushing performance.

Grouser Bar is made from 450HB hardened wear steel and is available in 3000mm long lengths or cut to any size. We stock a huge range of profile sizes to fit all track shoes. Send us your shoes for rebuilding today.





Track group bolt-ups

GET YOUR CHAINS & SHOES BOLTED TOGETHER, READY TO ROLL AS A TRACK GROUP

Stay on track for longer with less hassle, less downtime! We make it easy by supplying your choice of track shoes bolted to your chains, so you can roll off the old, roll on the new & keep on tracking.

Don't take the risk of your shoes coming loose when you're hard at work. Our trained Undercarriage technicians and engineers ensure the right shoe-chain fitment & correct bolt torque settings are applied.

With our hydraulic nut runners & roller beds based at our Auckland & Westport branches, we offer a fast and efficient shoe fitment and shoe swap service, nationwide.

We stock a huge range of track shoes and chains, available for all makes & models of Excavators & Dozers. Get in touch with us today for your next Track Group!.





Track measuring & reporting

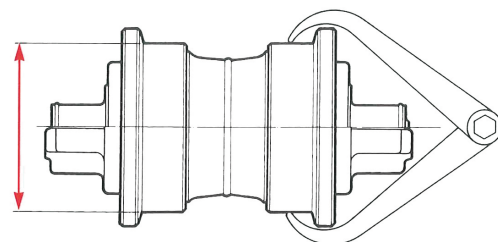
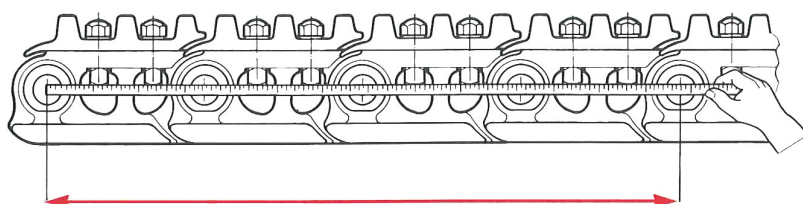
We know wear, we know Track Gear! We'll help you stay on track and increase uptime of your Excavators and Dozers by monitoring and measuring the performance of your entire Undercarriage system. Don't get caught out with unexpected break downs and downtime.

Lack of Undercarriage management can account for more than half of a machine's maintenance costs and Track Gear replacements can be the second largest expense after your machine purchase, so it's important to keep an eye on your Undercarriage performance, to maximise return on investment.

Our experienced team of track technicians come to you with a range of measuring tools and technology to check and inspect your wear performance. They'll measure the individual Track components to determine remaining service life and look for any potential issues that need repairing or replacing.

Supported by our huge database of product drawings, and wear limit measurements, we'll provide the right advice to keep you on track.

This service will help you to plan for upcoming maintenance repairs or replacements and ensures you get the best possible wear life from your Track gear.



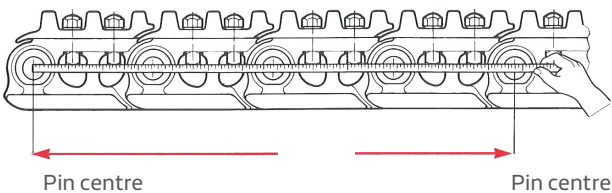
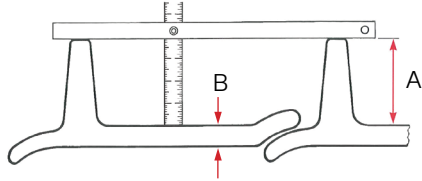
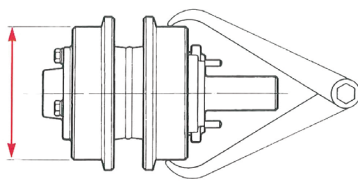
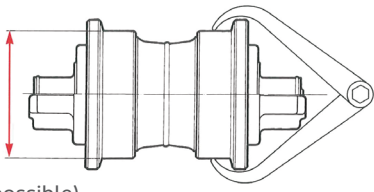
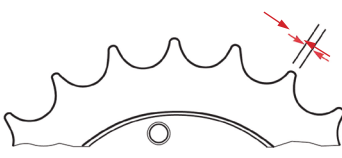
TRACK MEASURE UP FORM

**Under-
carriage**

You can use this page to check the critical wear measurements of each Undercarriage Component. Copy the page and fill out the information below. You can email to **sales@west-trak.co.nz** and we will advise the remaining service life percentage

Company Name: Contact person:
 Phone: () Mobile:
 Email: Machine Model:
 Serial No: Hours at time of inspection:

Please record all measurements below in millimetres (mm). Please note for Excavators - the sprockets should be facing the back of machine to accurately define the R/H and L/H sides.

<p>Chain stretch (Measure 4 sections of links)</p> <p>R/H: L/H:</p> <p>Brand: Part No:</p>	 <p>Pin centre Pin centre</p>
<p>Shoe Width:</p> <p>Number of Shoes:</p> <p>Rail Height R/H: L/H:</p>	 <p>Shoe Lug Height (A) R/H: L/H:</p> <p>Shoe Thickness (B) R/H: L/H:</p>
<p>Idler Diameter (B):</p> <p>Front Idler Flange (A) R/H: L/H:</p> <p>Rear Idler Flange (B) R/H: L/H:</p> <p>(High Track Dozers)</p>	 <p>Top Roller Diameter R/H: 1) 2) 3)</p> <p>Top Roller Diameter L/H: 1) 2) 3)</p> <p>(Measure from sprocket end)</p>
 <p>List Roller Brand(s) (if possible)</p>	<p>Track Roller diameter R/H (Measure from sprocket end)</p> <p>1) 2) 3) 4) 5)</p> <p>6) 7) 8) 9) 10)</p> <p>Track Roller diameter L/H (Measure from sprocket end)</p> <p>1) 2) 3) 4) 5)</p> <p>6) 7) 8) 9) 10)</p>
<p>Outside Bushing Diameter:</p> <p>R/H: L/H:</p>	 <p>Width of Sprocket Tip:</p> <p>R/H: L/H:</p> <p>Number of Holes:</p> <p>Number of Teeth:</p>



Tips for new undercarriage installations

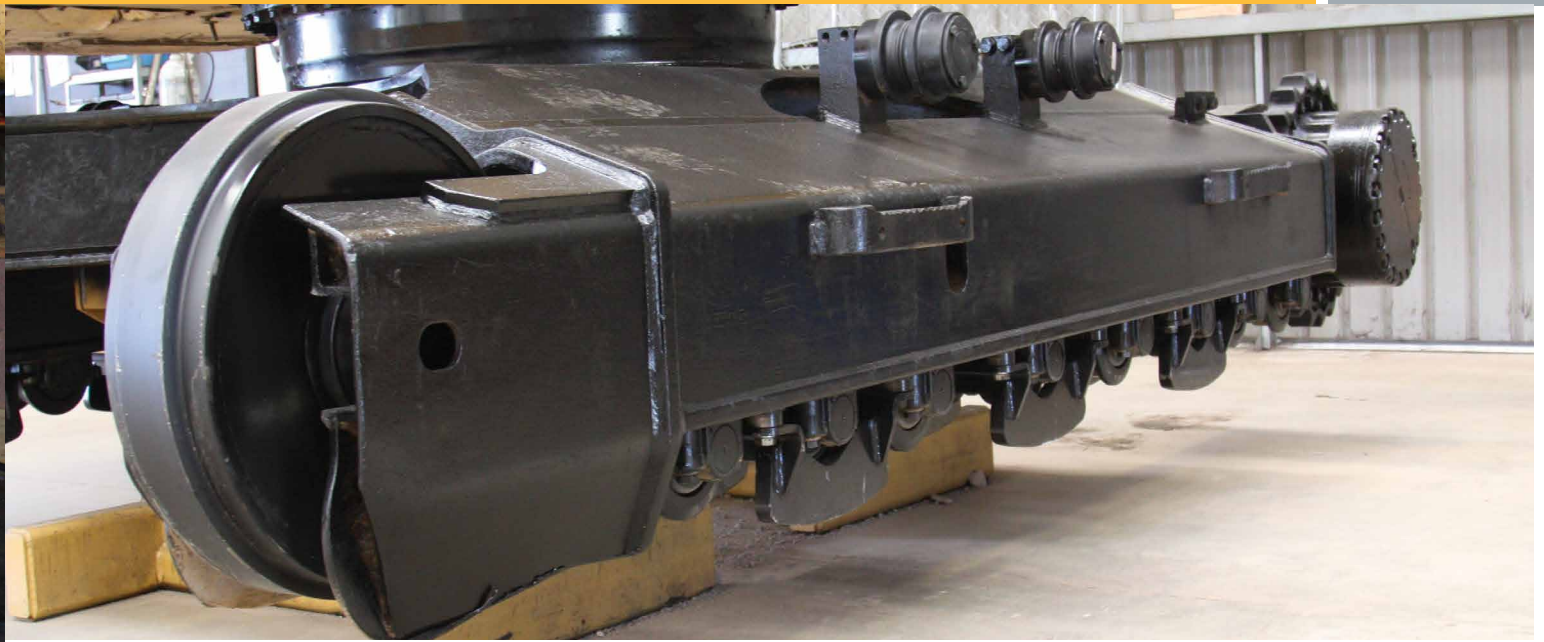
A NUMBER OF PRODUCT SELECTION, OPERATIONAL AND MAINTENANCE THINGS CAN BE DONE TO HELP PROLONG THE SERVICE LIFE OF YOUR UNDERCARRIAGE

TRACK ROLLERS & IDLERS

- Avoid mixing new and old track rollers on the same side as this will overload the new ones because they sit lower than the worn ones, therefore taking a lot of extra weight
- If not replacing all new bottom rollers, it is recommended to fit all the old/worn rollers on one side and all the new ones on the other side. This helps keep even pressure on each roller without overloading individual ones
- When replacing new rollers and idlers, do not travel long distances without stopping the machine frequently as they could overheat and seize. Stop every 4-5 minutes and go the opposite direction to help circulate the oil. This is standard precaution for the first 100 hours

CHAINS BUNCHING UP

- While there is no one reason for this to happen, it can be caused by wet working conditions or the machine sitting stationary for long periods, and moisture gets in causing seizure of the seals. Pressing out the affected track pins, re-greasing the bush & re-fitting the pins can help to fix this issue
- This can also be caused by putting bent grouser shoes onto new chains in a different order than they came off especially on wider shoes - 700 - 900mm. Bent shoes can catch or lock into each other, preventing the Chain to move freely. Track bolts may also be breaking if this happens



FITTING DOZER CHAINS THE CORRECT WAY

- With Dozer chains, the grouser shoe lug goes closest to the front of the machine when looking at the top of the chains

FITTING EXCAVATOR CHAINS THE CORRECT WAY

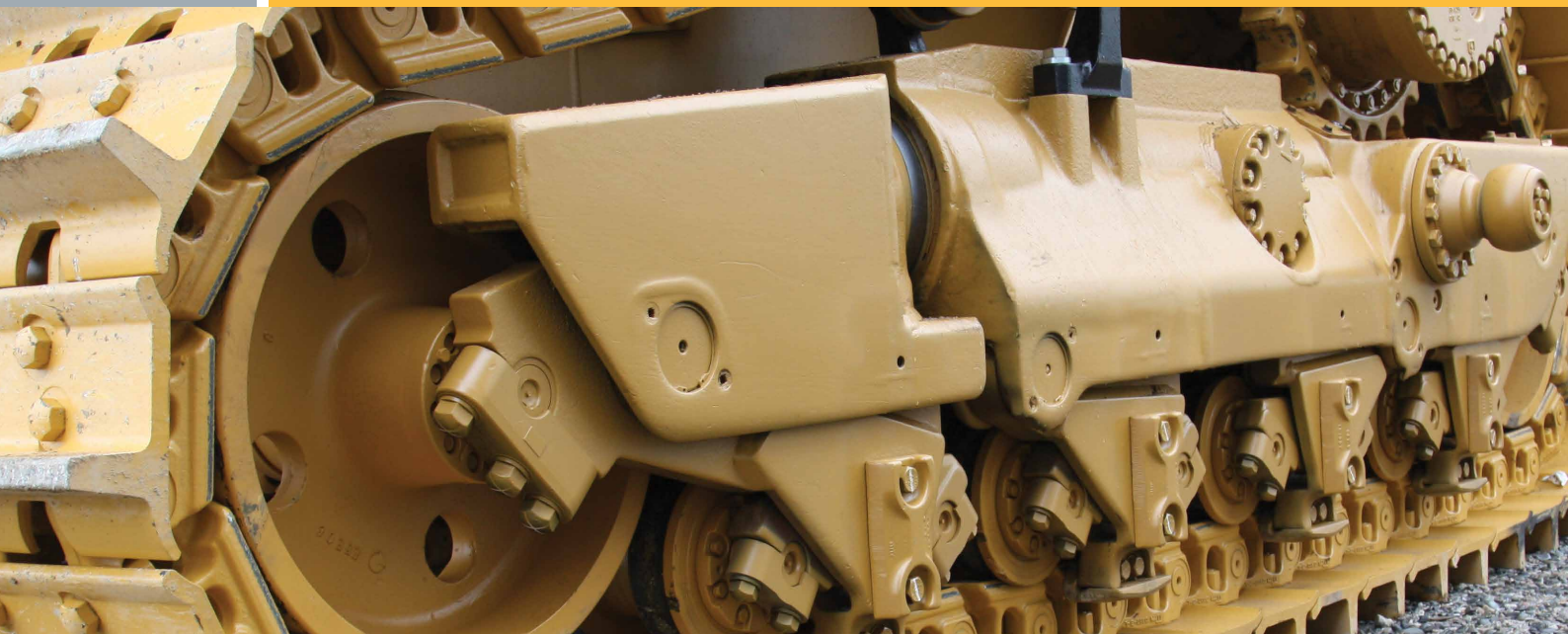
- The open end of the chain goes under the bottom rollers and over the sprocket end first

GROUSER SHOES

- Always use the narrowest shoe possible for adequate flotation. The wider the shoes, the less life you will get out of the chains
- Always grind paint, scale or surface rust off shoes and chains when fitting. These must be metal to metal contact, otherwise the bolts will come loose and shoes may fall off
- Mud holes in shoes are to stop 'material packing' inside the chains under the plates. When the chain passes around the sprocket, the sprocket teeth will push the dirt out. Very necessary in coal, muddy, swampy, forestry and landfill conditions

CHAINS JUMPING ON THE SPROCKETS

- If the chains are slipping or jumping on the sprockets, it can mean the sprockets are very worn. If the chains and sprockets are new, it may be the track adjuster spring is broken causing it to retract and loosening the chain tension
- Some sprockets are offset and will only fit one way; they could be on incorrectly and running into the side rails of the chains and not in the centre.
- Sprockets could be the wrong pitch for the chains or vice versa
- Worn track roller flanges can cause the chain to waver out to the side and become misaligned with the sprocket. Track guards will help to prevent this issue



Tips to make your undercarriage last longer

CHOOSING HEAVY DUTY, GREASE FILLED AND POLY SEALED EXCAVATOR CHAINS WILL:

- Extend external bush wear up to 20%
- Reduce internal bush wear up to 25% compared to dry chains
- Reduce undercarriage noise for operator comfort

CHOOSING THE NARROWEST SHOE POSSIBLE, WITH GOOD FLOTATION WILL:

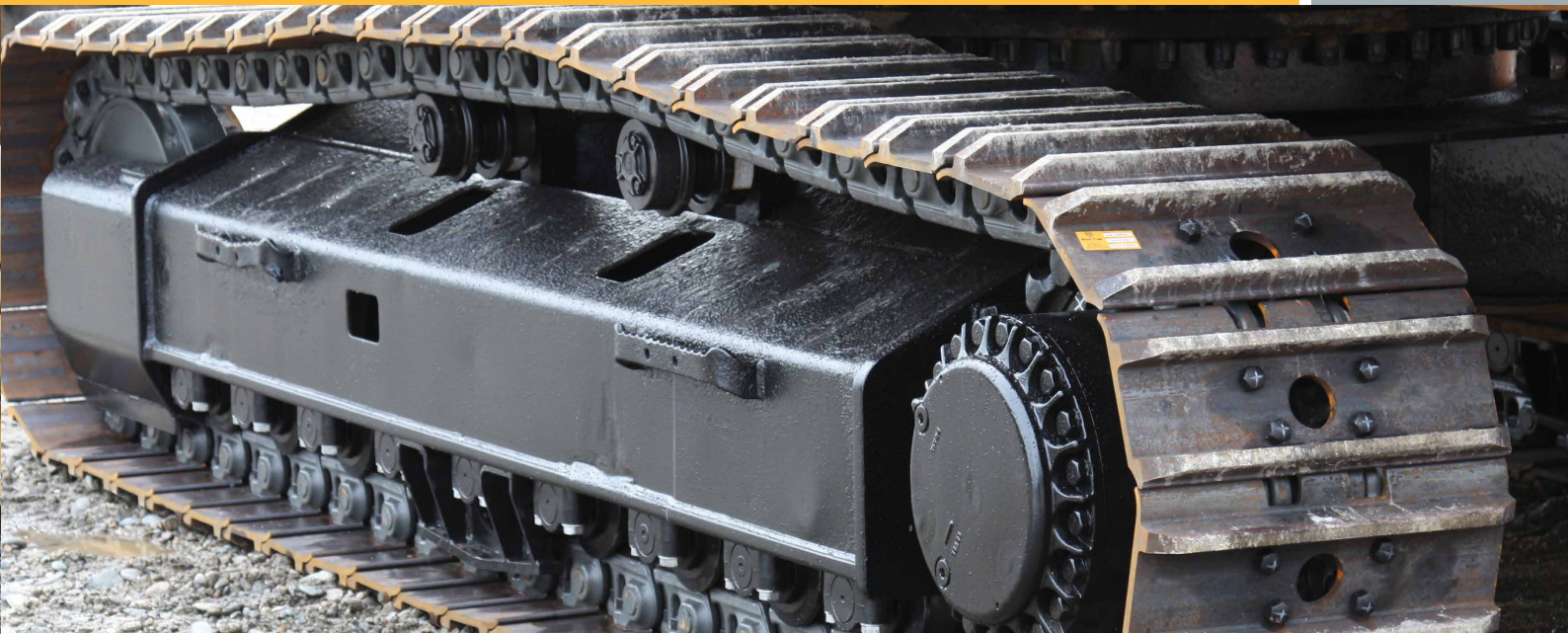
- Minimize internal wear on pins and bushes
- Reduce shoe wear and prevent bending or cracking
- Reduce stress and wear on the entire undercarriage system

MINIMIZE REVERSING

- Excavator and Dozer chains are designed to operate with less wear when travelling forwards. Excessive reverse travel can cause faster undercarriage wear. The extra power required when reversing will also increase fuel consumption

ALWAYS DIG OVER YOUR IDLERS

- It's important to note for excavator operation that digging over your sprockets will increase bush wear and possibly cause pin and bush cracking. Always dig over your idlers as the weight is on the chain links and not directly on the pins and bushes.



CORRECT CARE AND MAINTENANCE WILL INCREASE SERVICE LIFE

- Ensure the correct track adjustment is maintained - check this regularly after installing a new set of undercarriage
- Measuring and monitoring of track components is important to determine any wear issues - especially in abrasive and high impact conditions
- Keep the undercarriage components as clean as possible at all times. If you allow the tracks to pack or build up with dirt, mud, dust and other ground products it will lead to increased wear rates, perceived lower power and increased fuel usage

KNOW YOUR WORKING CONDITIONS

- Consider the conditions where your equipment is operating as this can be a major contributor to wear. High impact, abrasive or sandy materials on a wet site, will contribute to faster undercarriage wear
- In the past it was accepted in an abrasive environment that you would simply run SALT type dozer tracks to destruction, then replace them. Now the preferred option is to carry out regular inspections and do a mid-life pin and bush turn (turning the pins and bushes 180 degrees) to get longer service life

MAINTAIN GROUSER SHOE LUG HEIGHT

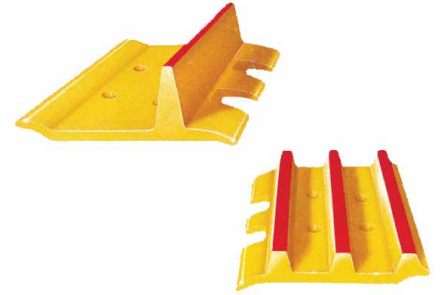
- Keeping a good lug height on your Grouser shoes will ensure proper traction and help reduce track slippage. A spinning track under load will increase the wear rate of your undercarriage system. Grouser relug bars can be used to build up your worn shoe lugs and maximise traction.

USE TRACK GUARDS

- Using Track Guards will help extend the life of your undercarriage parts by keeping the track chains running straight and ensuring even wear on all track components.

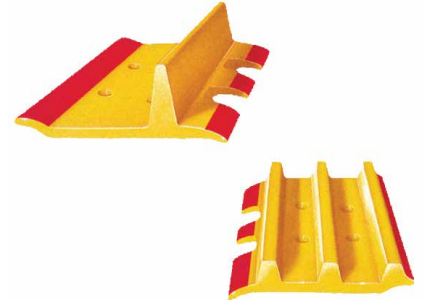
Grouser Shoes

- The most important wear is the relative height of the grouser lug from the top of the shoe. A depth gauge is used to measure this



ACCELERATED WEAR OF OVERLAPPING SURFACES

- This is normally caused by a worn snaking chain and is eliminated by tightening or replacing the chains



SEVERE WEAR OF THE END OF THE GROUSER

- This is especially noticeable on single bar grousers and is usually caused by using shoes too wide for the type of ground the tractor is operating on. The use of a narrower shoe will eliminate this problem



BENDING AND CRACKING

- This is due to excessive impact or stress on the shoes. The use of narrow shoes or Extreme Service (ESS) shoes will help prevent this happening



ENLARGED BOLT HOLES

- This is caused by movement between the chain and shoe due to loose bolts or machine motion
- Reduced shoe size or the use of shoes with less penetration (i.e. double or triple grousers) and accurate control of the bolt torque will help prevent this happening



Track Links

- The normal wear area on track links is on the surface that contacts the rollers and idlers



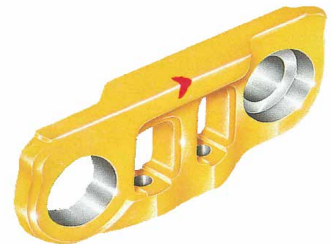
EXCESSIVE SIDE RAIL WEAR

- Besides the operational conditions, steep ground or frequent sudden turns, this wear could be caused by track misalignment, excessive chain snaking or worn chains



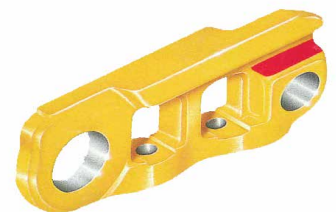
INDENTATIONS ON INTERNAL SURFACE OF RAIL

- This is caused by the sprocket teeth rubbing on the inside of the link because of sloping ground, misaligned sprocket and chain or a severely bent chain. Adjust chain tension and check alignment



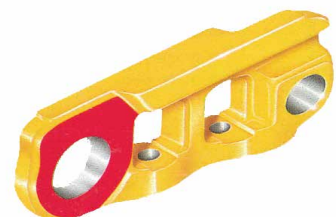
PIN BOSS SIDE WEAR

- This is caused by contact with the outside flange of the bottom track rollers. Should it occur before 100 percent of the link wear then it means the rollers are beyond their useful life and should be replaced



EXCESSIVE FACE WEAR

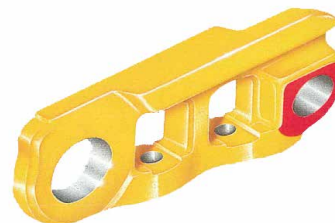
- This wear is caused by snaking of the links or highly abrasive working conditions
- The use of track guards or fitting of lubricated SALT type chains can reduce this wear



Track Links

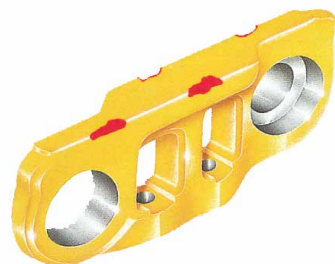
PIN BOSS WEAR FROM TRACK GUARDS

- This results from excessive snakiness of the chain rubbing against the track guards. Worn bottom rollers & working on steep slopes can be the cause.
- Check sprocket alignment and rotate some rollers will help



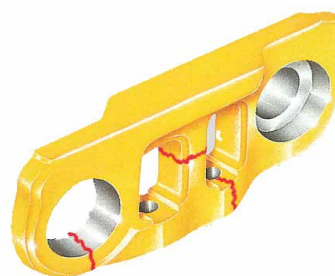
RAIL CORNERS GOUGED

- Caused by severe shock loads usually transmitted by the rollers to links
- Besides operating conditions (heavy work, speed, weight and power of machine) the situation can be aggravated by the size of the shoes and/or track tension.
- A remedy could be to reduce the shoe size and/or adjust the chain tension



CRACKS OR BREAKAGES OF THE MOST STRESSED AREAS

- Most breakages are caused by torsional stress transmitted to the link structure when the machine is used in a severe impact application
- To reduce this failure, narrower shoes can be used and the chain tension regularly adjusted



BUSHING COUNTERBORE AND PIN BOSS DEFORMATION

- If this is not caused by incorrect tooling being used when assembling or disassembling the chain, then it is caused by bending stresses in the pins and bushes
- This problem can be reduced by fitting smaller shoes and by having the correct chain tension

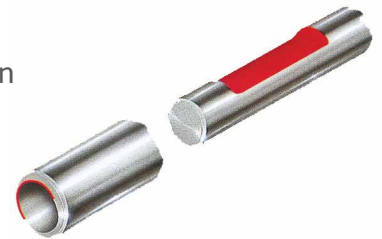
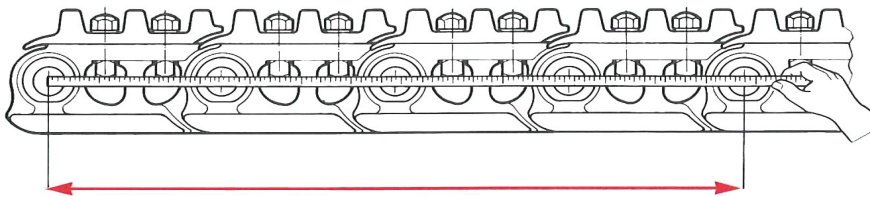


Pins & Bushes

grease filled type

INTERNAL PIN WEAR

- The internal pin and bush wear on greased and sealed chains is measured by the chain stretch. This is done by measuring the pin centres over 4-5 links and comparing to new chain specs.



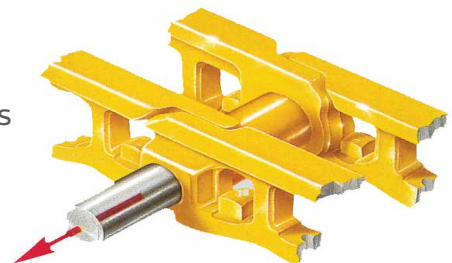
WORN PIN END

- Besides the obvious factor of hillside operation and uneven ground, this type of wear is caused by incorrect chain tension and roller wear
- If chain elongation has not reached the limit, then adjust chain tension and rotate some rollers
- If this pattern of wear starts immediately after installing a new undercarriage, then check position of the track guards is not too close to the chain



LOOSE PINS

- If there is no obvious fault such as incorrect assembly or disassembly, then this can be caused by bending stresses during heavy operation of the machine
- To eliminate this, replace any worn shoes, check bolt tension and/or fit narrower shoes



Pins & Bushes

grease filled type

EXTERNAL BUSHINGS

- Wear is caused at the point of contact between the bushing and the sprocket tooth. To measure this wear, use a small outside calliper



CRACKING OR BREAKING OF SURFACES IN CONTACT WITH SPROCKET

- Due to excessive wear either externally or internally, will allow the bush to break
- It could also be caused by to heavy working conditions or packing sprockets. To reduce this effect, check and adjust chain tension and use track shoes with mud holes in.



PIN BREAKAGES

- Main cause of this failure is extreme shock or high static loads which occur when the machine works on rocky ground and/or when material packs in the sprocket causing extreme tension on the track chain
- Protect the track chain and sprocket from material packing under the shoes by using shoes with mud holes in

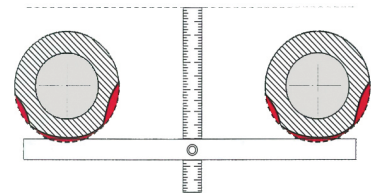
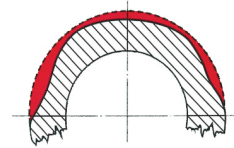
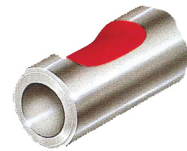


Pins & Bushes

oil filled SALT type

EXTERNAL BUSHINGS

- The normal bush wear is on the external surface. The bushing wears evenly and should be measured in the centre of the wear area
- One way to measure external wear is to evaluate the distance from the underside of the shoe (top of link) to the centre of the wear area on the bushing
- A depth gauge or ultrasonic wear indicator tool can be used.



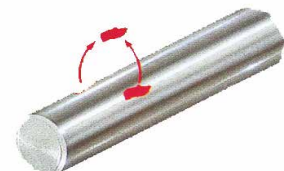
PIN GALLING

- This is due to interference between the pin and bushing in the press fit contact areas and is caused by fine abrasions getting in or the pins bending under load
- This effect is of no consequence for greased chains and the pin can be reused. However for oil filled S.A.L.T chains this may damage the seals causing oil to leak. The pins should not be reused.



PIN SPALLING

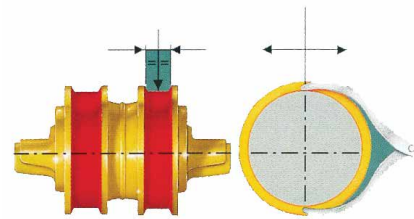
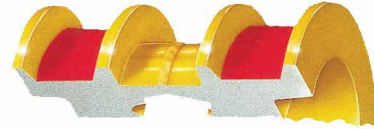
- All spalling is due to large bending stresses in heavy working conditions
- Besides the application of the machine, this can be caused by excessive chain tension due to build up and packing of material
- Adjust the chain correctly and protect against packing of rocky material between chain and sprocket by using track shoes with mud holes in.



Lower Track Rollers

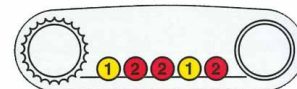
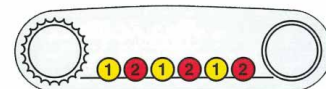
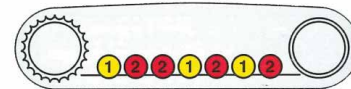
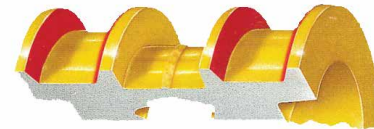
ROLLER TREAD WEAR

- The tread wear of the roller is most important and is measured on the roller diameter. The most suitable tool is a large outside calliper.
- The correct measurement is to take the least diameter of either tread on the roller which will be the one with the highest wear. Because of the difficulty in measuring the rollers on the machine, it is usually sufficient to measure the front (nearest idler) and back (nearest sprocket) roller as the greatest wear occurs at these two points due to the rocking action of the machine



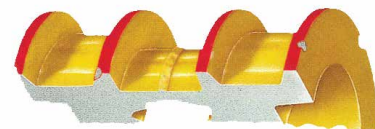
EXCESSIVE SIDE FLANGE WEAR

- Besides operational conditions, this wear can be caused by misalignment or excessive slackness of the chain
- If the rollers have not reached their wear limit, then adjust the chain tension and rotate some of the rollers
- It should be noted that double flange rollers have a longer life and the correct sequence of double and single flange rollers is important
- If longer life is required due to the operating conditions, then more double flange rollers can be fitted



TOP FLANGE DEFORMATION

- This is caused by contact of the link pin boss or due to the chain sliding over the flanges because of exceptional wear of the chain rails or bottom roller wear



Top Carrier Rollers

ROLLER TREAD WEAR

- The normal wear condition can be measured as for the bottom rollers. Other wear patterns are analysed below



EXCESSIVE FLANGE SIDEWEAR

- This can be caused by hillside operation, using special offset grousers, and incorrect alignment or track tension
- To increase the roller life, align carrier rollers with idler and sprocket and rotate top rollers if more than one are fitted to the machine



FLAT SPOTS AND IRREGULAR WEAR

- This is usually caused by material packing under the top carrier roller and restricting its rotation
- Rollers should be cleaned and all material removed regularly



Idlers

IDLER TREAD WEAR

- Radial tread wear is the most important wear factor. The easiest method of measuring tread wear is to measure the depth of the tread from the centre of the idler flange.
- Check the idler flange has not worn from the original diameter, before comparing wear rates



EXCESSIVE FLANGE SIDEWEAR

- The main causes of this wear is abrasive soil conditions, hillside operation or excessive turning
- Other factors influencing side wear can be incorrect roller alignment or chain tension
- To reduce side wear to a minimum, make sure the correct chain tension is used and the idler is correctly aligned in the track frame or use track guards.



TOP FLANGE WEAR

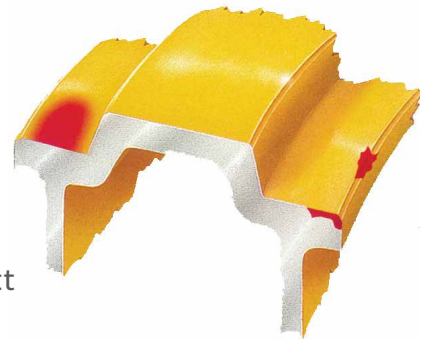
- Usually caused by material packing under the chain rails or excessive idler tread wear. To eliminate this, make sure that the chain is correctly adjusted, check the idlers are not worn or use track shoes with mud holes in.



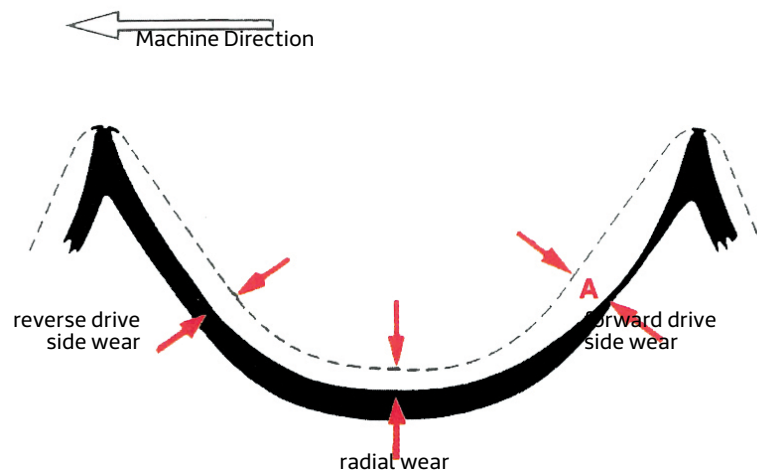
Idlers

TREAD CRACKING AND SPALDING

- This can be caused by high impact loads due to heavy working conditions or by excessive wear of the idler
- The condition of the chain can also contribute to the effect
- Unfortunately the factors which lead to the breakdown of the idler can not be controlled and therefore the only remedy will be not to exceed the wear limits of the idler or any of the undercarriage components



Sprockets & Segments



- If chains are jumping on the sprockets, check chains are on the correct way and check the pitch of chains and sprockets are the same. If worn sprockets are doing this they are due for replacement
- Sprocket wear measurement is one of the most difficult to take. Under normal conditions of work, the wear occurs in such a way that no trace of the original toothing remains as a valid reference to base measuring the wear on
- Consequently it is not possible to get the exact data and for any evaluation, it is always necessary to refer to an unused sprocket of the same type
- As a general rule, the sprocket has to be replaced or rerimmed when the wear line reaches the limits as outlined in the figure above
- Due to the fact that the wear is never even, the point where there is major wear must be considered

CRAWLER CRANE UNDERCARRIAGE



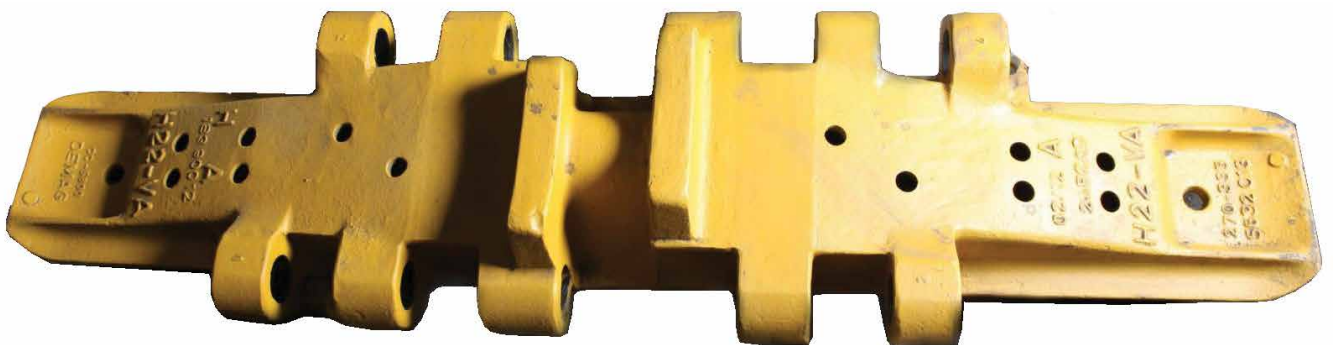
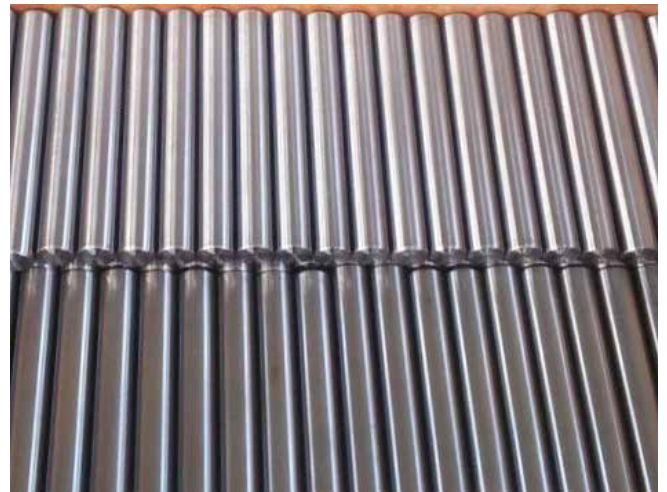
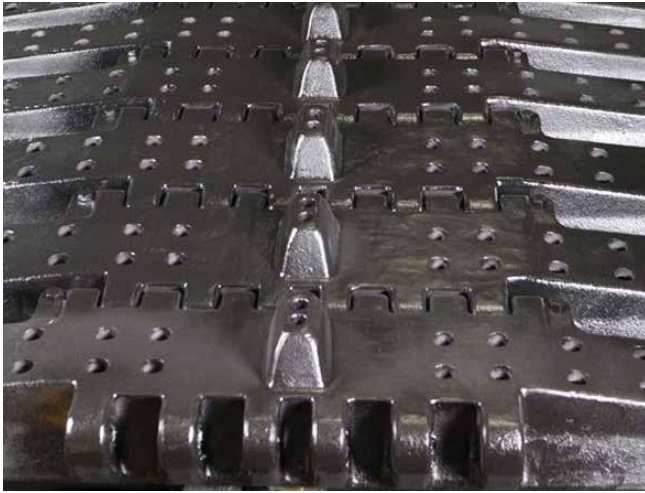
A LARGE RANGE OF HIGH QUALITY TRACK PARTS ARE AVAILABLE FOR MOST MAKES & MODELS OF LARGE CRAWLER CRANES, EARTH DRILLS & PILE DRIVERS

Crane Make	Crane Model
HITACHI	KH70, KH100, KH100-1, KH100D, KH125, KH125-2, KH125-3, KH150, KH150-2, KH150-3, KH180, KH180-2, KH180-3, KH230, KH230-3, KH250HD, KH300, KH300-2, KH300-3, KH500-2, KH500-3, KH700-2, KH850, KH850-3, KH1000, U106A, TH55, CX300, CX350, CX500, CX550, CX650, CX700, CX900, CX1000, CX1100, CX1800, CX2000, PD7, PD100, CD1500, CD2000 etc.
SUMITOMO	SC350, SC400, SC400-2, SC500, SC500-2, SC500-3, SC550-2, SC650, SC650-2, SC650DD-2, SC650-3, SC700, SC700-2, SC800, SC800HD, SC1000, SC1000-2, SC1500-2, LS78RH, LS78RM, LS78RH5, LS78RHD5, LS98, LS108RH5, LS100C, LS118RH3, LS118RH5, LS118RH6, LS118RM, LS120RH5, LS138H, LS138RH5, LS208H, LS218H, LS218RH5, LS238RH2, LS238RH3, LS238RH5, LS248RH5, LS458HD, LS468HD, LS518, LS528, LS528-S, SD205, SD307, SD407, SD510, SD610 etc.
HITACHI-SUMITOMO	SCX300, SCX300-C, SCX400, SCX500, SCX550E, SCX700, SCX700-2, SCX700HD, SCX800, SCX800-2, SCX800HD, SCX800HD-2, SCX900, SCX900-1, SCX900-2, SCX900HD, SCX900HD-1, SCX900HD-2, SCX1000, SCX1200, SCX1200-2, SCX1200HD, SCX1200HD-2, SCX1500, SCX1500-2, SCX2000, SCX2000HD, SCX2500, SCX2600, SCX2800-2, SCX3500, CX5000(CT10000), SCX6500(CT12000), 6000SLX, 6000SLX(SL-N), 6000SLX(SL-T), 218HSL, SDX207 etc.
KOBELCO	P&H60P, P&H70P, P&H75P, P&H100P, P&H315, P&H320, P&H325, P&H330, P&H335, P&H335AS, P&H345, P&H440, P&H550A, P&H550-1, P&H550-2, P&H550S, P&H5035, P&H5045, P&H5055, P&H5100, 7035, 7045, 7050, 7055, 7065, 7070, 7080, 7090, 7100, 7120, 7150, 7200, 7250, 7250-2, 7300, FS80, FS90, BM500, BM600, BM650, BM700, BM700HD, BM750, BM800, BM800HD, BM900, BM900HD, BM1000HD, BM1200, CKS600, CKS2500, CKE600, CKE700, CKE700-1, CKE800, CKE850, CKE900, CKE1000, CKE1100, CKE1350, CKE1800, CKE2000, CKE2500, CKE2500-2, CK800, CK850, CK1000, CK1000G, CK1600, CK2000-2, CK2500, SL4500, SL6000, TK350, TK750, TK550, etc.
IHI	CH350, CH500, CCH250W, CCH280W, CCH300T, CCH350, CCH350-D3, CCH400, CCH500, CCH500-2, CCH500-3, CCH500-T, CCH550, CCH650, CCH700, CCH800, CCH800-2, CCH1000, CCH1000-5, CCH1200, CCH1500, CCH1500HDC, CH1500-2, CCH1500E, CCH2000, CCH2500, CCH2800, DCH650, DCH700, DCH800, DCH1000, DCH1200, DCH6020, DCH15030, DCH2000, K300, K400A, K400B, K1000, etc.
MANITOWOC	2900wc, 3900, 4100, 8500, 10000, 12000, 14000, 777S2, 888, 16000 BRS, 3000, 888 II, etc
LIEBHERR	LR1100, LR1550, LR1280, LR1300, LR1600, LR1650, LR1750, HS852HD, HS853HD, HS855HD, HS871HD, HS872HD, HS873HD, HS875HD, HS882HD, HS883HD, HS885HD, etc.

Parts for other models not listed here may be available on request.

CRAWLER CRANE UNDERCARRIAGE

CRANE MONO BLOCK TRACK SHOES & PIN RANGE



CRANE SPROCKET RANGE



CRAWLER CRANE UNDERCARRIAGE

CRANE IDLER & ROLLER RANGE







***Delivering the solutions
you need to stay
productive***



Phone us on
0800 654 323



Email us at
sales@west-trak.co.nz



Visit our Website
www.west-trak.co.nz



Head Office
32 Robertson Street
Westport, 7825



Auckland Branch
14 Hobill Ave, Wiri
Auckland, 2104



Like us on **Facebook**



Follow us on **Linkedin**

Call 0800 654 323 for your Track Gear needs!



West-Trak
UNRIVALLED STRENGTH