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# 7 Towing & Recovery

2014 edition

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# Towing and Recovery



Recovering bogged vehicles and towing large machinery is a common event on construction and mining sites with any delays in recovery often creating substantial costs.

Robertsons' understands the importance of moving vehicles both quickly and safely, and therefore only offers cost effective, high quality equipment suited to recovering and towing everything from four wheel drives and smaller machinery right through to large mining vehicles.

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## Plasma Recovery Bog Stops

### Plasma Recovery Bog Stops

PLASMA gives you a high strength, low stretch, easy to handle product, which is tough, strong, reliable and safe.

PLASMA Recovery Bog Stops are used on:

- › Competition 4WD trucks.
- › Mine sites as Tow Recovery Bog Stops to free bogged mining equipment.

#### Features

- › Highest strength synthetic fibre available
- › Low stretch
- › Low creep
- › Soft on hands
- › Torque free
- › Floats in water
- › Does not store energy, which means there is no recoil at breaking point.

#### Plasma Tow Recovery Bog Stops Standard Sizes and Model Numbers

Strength (t)	Standard Lengths	Mass (kg)	Extra Mass per metre (kg)
151	6	8.3	1.6
151	8	11.5	1.6
151	10	14.7	1.6
151	15	22.7	1.6
226	6	14.44	2.45
226	8	19.34	2.45
226	10	24.24	2.45
226	15	36.49	2.45
362	6	25.56	3.8
362	8	33.16	3.8
362	10	40.76	3.8
362	15	59.76	3.8
482	6	37.7	4.95
482	8	47.6	4.95
482	10	57.5	4.95
482	15	82.25	4.95



\* Other Tonnages and Lengths available on Request





# Twin-Path Tow Slings

## Twin-Path Tow Slings

Twin-Path Slings are manufactured in Australia by Beaver Brands, (under licence from Slingmax), and are constructed with K-Spec® high performance fibres with a bulked nylon outer cover that is extremely abrasion resistant.

Variety of sizes up to 600 tonnes are available.



Our high performance fibres known as (K-Spec) have 1% elongation at rated capacity.

With a high resistance to chemicals, heat & moisture.



### Weight Advantage

- › 80% Lighter than steel wire rope/ chain slings.
- › 50% Lighter than polyester.

### Control of Slings

- › Lightweight allowing better control by operators.

### Storage, Retrieval and Salvage

- › Easily rolled and folded for storage.
- › Ease of Transport.

### Water Resistant Covermax Outer cover Woven

- › Outer cover fabric is more abrasive resistant than common nylon or polyester.

### Reduced Rigging Times

- › Up to 80% reduction in rigging times.

### Safety

- › Reduce exposure to back and work related injury.

### Protective Sleeves

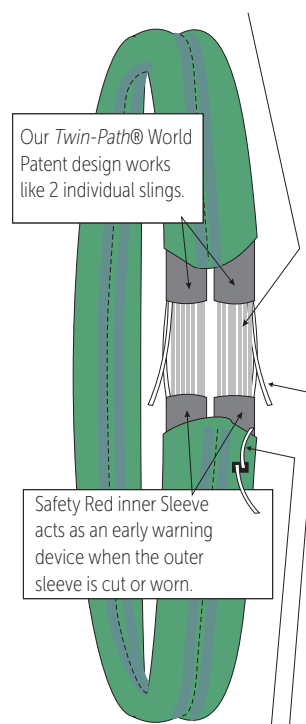
- › Synthetic Armor™ pads

### Tell Tails / Optical Fibres

- › Allows continual monitoring of sling safety.

### Applications

- › Special and Heavy Lifts
- › Mining, Towing, Lifting
- › Marine - Naturally Buoyant - K-Spec does not absorb moisture
- › Power Stations

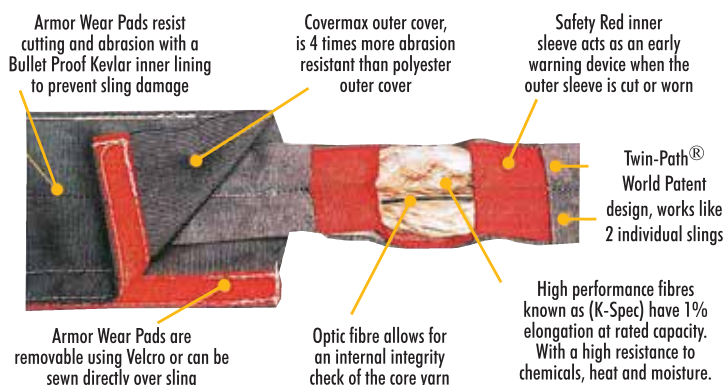


Our optical fibre allows for internal integrity check of the core yarn.

### Tell-Tails

When the sling is stretched beyond its elastic limit, they retreat and eventually disappear under the tag.

Take out of service if Tell-Tails are not visible.





## Twin-Path Slings – Technical Information for Towing

Code	MBS (kg)	Tube Width (mm)	Weight per Metre (kg)
TPXC5	25000	75	0.3608
TPXC6	30000	75	0.4330
TPXC8	40000	75	0.5773
TPXC10	50000	75	0.7216
TPXC12	60000	100	0.8659
TPXC15	75000	100	1.0824
TPXC20	100000	125	1.4432
TPXC25	125000	125	1.8040
TPXC30	150000	150	2.1648
TPXC35	175000	150	2.5256
TPXC40	200000	150	2.8864
TPXC45	225000	150	3.2472
TPXC50	250000	200	3.6080
TPXC55	275000	200	3.9688
TPXC60	300000	200	4.3296
TPXC65	325000	200	4.6904
TPXC70	350000	200	5.0512
TPXC75	375000	250	5.4120
TPXC80	400000	250	5.7728
TPXC85	425000	250	6.1336
TPXC90	450000	250	6.4944
TPXC95	475000	300	6.8552
TPXC100	500000	300	7.2160

Code	MBS (kg)	Tube Width (mm)	Weight per Metre (kg)
TPXC105	525000	300	7.5768
TPXC110	550000	300	7.9376
TPXC115	575000	300	8.2984
TPXC120	600000	300	8.6592
TPXC125	625000	300	9.0200
TPXC130	650000	300	9.3808
TPXC135	675000	300	9.7416
TPXC140	700000	300	10.1024
TPXC145	725000	250 & 100	15.6948
TPXC150	750000	250 & 100	16.2360
TPXC155	775000	250 & 100	16.7772
TPXC160	800000	250 & 100	17.3184
TPXC165	825000	250 & 100	17.8596
TPXC170	850000	200 & 150	18.4008
TPXC175	875000	200 & 150	18.9420
TPXC180	900000	200 & 150	19.4832
TPXC185	925000	250 & 150	20.0244
TPXC190	950000	250 & 150	20.5656
TPXC195	975000	250 & 150	21.1068
TPXC200	1000000	250 & 150	21.6480
TPXC250	1250000	250 & 150	27.0600
TPXC300	1500000	200 & 200	43.2960



# Rubber Strops

## Rubber Recovery Strops

Black Snake Kevlar® Recovery Strops are designed for recovery and towing of mining, heavy commercial, and military vehicles as well as plant machinery.

They are an ideal substitute for heavy and unwieldy chains and wire rope recovery equipment. The low stretch and recoil during the recovery/tow makes the Black Snake safe to use in all conditions.

The rubberised outer coating protects the load bearing fibres from the elements and is more durable than most fibre ropes, synthetic webbing straps or round slings.



### Features:

- › Ranges in size from 20 tonne to 300+ tonne for a wide range of applications.
- › Fibres offer very low stretch (4%)
- › Ultra high strength to weight ratio
- › Abrasion/cut resistant rubber protects the strop from the elements.
- › Specially designed steel eyes suit attachment to shackle pins, hitch pins, and G Type couplings
- › Special end fittings or steel thimbles can also be fitted according to customer requirements
- › Lengths available from 500mm to 20metres and can be manufactured to order in non-standard lengths
- › Break strength is clearly marked on each strop
- › Serial numbers provide traceability



Break strength <sup>1</sup>	20 (t)	30 (t)	50 (t)	70 (t)	100 (t)	150 (t)	200 (t)	300 (t)
500mm length	3kg	3kg	4kg	N/A	N/A	N/A	N/A	N/A
1 metre length	3.5kg	3.5kg	4kg	5kg	N/A	N/A	N/A	N/A
1.5 metre length	5kg	5kg	6kg	7kg	13kg	15kg	N/A	N/A
3 metre length	8kg	8kg	9kg	12kg	16kg	18kg	N/A	N/A
6 metre length	11kg	11kg	13kg	18kg	24kg	25kg	32kg	45kg
10 metre length	16kg	16kg	20kg	28kg	35kg	37kg	44kg	59kg
15 metre length	24kg	24kg	27kg	33kg	40kg	50kg	59kg	86kg
20 metre length	28kg	28kg	36kg	44kg	56kg	65kg	77kg	112kg

Severely bogged vehicle <sup>3</sup> – Max GVW2	15 tonne	20 tonne	35 tonne	50 tonne	70 tonne	100 tonne	150 tonne	200 tonne
Thimble hole size and eye width	Ø72mm and 40mm	Ø56mm and 34mm	Ø56mm and 44mm	Ø63mm and 56mm	Ø100mm and 70mm	Ø80mm and 70mm	Ø80mm and 80mm	Ø90mm and 100mm

Recommended S Grade Shackle Pin	8.5-12 tonne	8.5 -17 tonne	12-25 tonne	17-35 tonne	25-42 tonne	35-55 tonne	42-55 tonne	55-85 tonne
Recommended coupling	Coupling link 18 - 20mm	Coupling link 16mm	Coupling link 22mm	Coupling link 26mm	Coupling link 32mm	N/A	N/A	N/A

**Note.** <sup>1</sup>Break strength is the applied load at which the recovery strop fails. <sup>2</sup>Maximum GVW is the maximum recommended gross vehicle weight of a severely bogged vehicle for a given tow strop. <sup>3</sup>A severely bogged vehicle is judged as a vehicle which is resting on its axles or chassis. The vehicle is being dragged with no rolling of the wheels.

## Cable Strops

### Cable Recovery Strops



#### Superflex Recovery Strops

Superflex strops are made of Superflex Cable, which is a plaited configuration, not laid or twisted like wire rope. The interplaiting of the sets of strands creates a very tough and set-resistant cable which provides ease of handling, long life and gripping power.



#### Features

- › Provides strong yet flexible cable for rescuing heavy vehicles
- › Specially designed to engage directly onto the ripper of a bulldozer without damage
- › Flexible and easy identification of the size
- › Special thimbles can be reused in case of cable damage
- › The thimbles are not rigidly attached to the cables, thus enabling multiple plies of cable to equalise their loads and attain maximum strength

Break Strength	30 (t)	50 (t)	70 (t)	100 (t)	150 (t)	200 (t)	300 (t)
1 metre length	3.5kg	4kg	N/A	N/A	N/A	N/A	N/A
3 metre length	8kg	6kg	12kg	15kg	18kg	N/A	N/A
6 metre length	11kg	13kg	18kg	21kg	25kg	32kg	45kg
10 metre length	16kg	20kg	28kg	30kg	37kg	44kg	59kg
15 metre length	21kg	27kg	33kg	38kg	50kg	59kg	86kg
20 metre length	28kg	36kg	44kg	52kg	65kg	77kg	112kg
<b>Max. (GVW) Severely bogged vehicle*</b>	<b>20 (t)</b>	<b>35 (t)</b>	<b>50 (t)</b>	<b>70 (t)</b>	<b>100 (t)</b>	<b>150 (t)</b>	<b>200 (t)</b>
Recommended couplings	12T to 25T S grade shackle pin	17T to 25T S grade shackle pin	17T to 35T S grade shackle pin	25T to 35T S grade shackle pin	35T to 55T S grade shackle pin	42.5T to 55T S grade shackle pin	55T to 85T S grade shackle pin

# Shackles and Headings

## Grade S Safety Shackle



Bow Type. Safety Factor 6:1

At Robertsons we stock an extensive range of shackles for an array of towing and recovery applications.

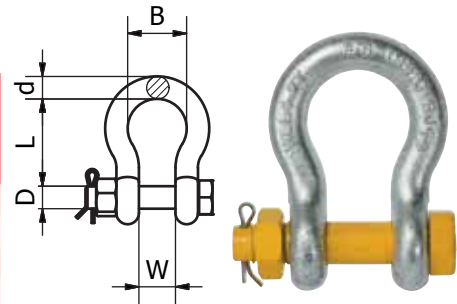
### Features

- > Grade 'S' bow safety shackle
- > Full traceability with markings
- > Manufacturer conducts proof tests of shackles to guarantee quality

### Safety Bow Shackles

Product Code	WLL (t)	DIA d (mm)	DIA PIN D (mm)	Inside Width W (mm)	Inside Length L (mm)	Width of Bow B (mm)	Approx Weight (kg)	MBS (t)
03250620	25	44	51	73	178	127	14.99	150
03250630	35	51	57	83	197	146	20.65	210
03250640	55	63	70	105	267	184	41.05	330
03250650	85	76	83	127	330	200	62.24	510
03250660	120	89	95	146	381	241	110.00	720

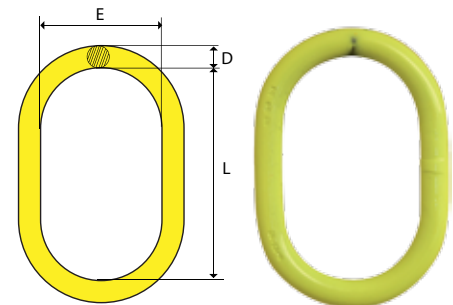
Other sizes and styles available. Call your local Robertsons branch for further information.



### Head Rings

Product Code	WLL (t)	L (mm)	E (mm)	D (mm)	Weight (kg)	MBS (t)
M-3632-10	56	350	200	55	20.47	224
M-4536-10	70	375	210	60	26.4	280
M90T-10	90	450	250	70	42.8	360
M-125T-10	125	450	260	80	57	500

Other sizes and styles available. Call your local Robertsons branch for further information.

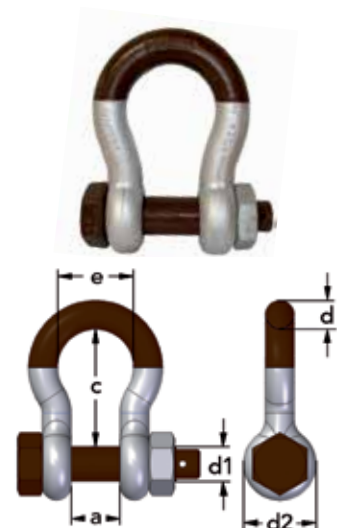


## Lightweight Super Shackles #858

Bow Type. Safety Factor 5:1

Product Code	WLL (t)	d1 (mm)	Dim d (mm)	a (mm)	c (mm)	d2 (mm)	e (mm)	Weight (kg)	MBS (t)
A085835	21	38	35	57	132	74	89	7	105
A085838	30	42	38	60	146	89	99	8.8	150
A085845	40	50	45	74	178	105	126	15	200
A085857	55	57	57	83	197	117	138	22	275
A085870	85	70	70	105	260	143	180	38	425
A085883	120	83	83	127	329	162	190	70	600
A085895	150	95	95	144	400	208	238	112	750

Other sizes and styles available. Call your local Robertsons branch for further information.





## Black Rat 4WD Accessories

### Black Rat 4WD Accessories



#### Black Rat 4WD Nylon Heavy Duty Recovery (Snatch-em) Strap Kit

Specifically designed to recover your vehicle when bogged.

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
342304BHK	Each kit contains, 9m x 60mm Heavy Duty Snatch Strap, Leather Safety Gloves, 2 Bow Shackles 16 x 19mm 3.2t W.L.L., Carry Bag.	9000	4.2	Each	1
342322BHK	Each kit contains, 9m x 75mm Heavy Duty Snatch Strap c/w red overload indicator fibre, Leather Safety Gloves, 2 Bow Shackles 16 x 22mm 4.7t W.L.L., Carry Bag.	12000	4.4	Each	1



#### Black Rat 4WD Nylon Heavy Duty (Snatch-em) Strap

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
342319B	9m x 60mm Heavy Duty	9000	2.38	Each	8
342322B	9m x 75mm Heavy Duty	12000	3.4	Each	8
342316	9m x 60mm Heavy Duty 2 Ply	16000	3.9	Each	1
342318F	9m x 60mm Heavy Duty 4 Ply	30000	7.7	Each	1



## Black Rat 4WD Accessories

### Black Rat 4WD Polyester Tree Trunk Protector Strap with Carry Bag



The Tree Trunk Protector is designed for tying off or anchoring a vehicle to a tree. It is used when attempting to reverse, steer up or pull out of an awkward position. The 75mm wide x 3 metre polyester webbing has a minimum breaking strain "MBS" of 10,000 kgs.

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
342312B	3m x 75mm Tree Trunk Protector	10000	1.5	Each	8



### Black Rat 4WD Polyester Winch Extension Straps

Black Rat Extension Straps are designed for extending the winch cable when the cable is too short. They are made from 50mm black polyester webbing and have a minimum breaking strain, MBS, of 4,000kg. They have yellow reinforced eyes and are available in 10, 20 and 30 metre lengths

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
342305B	10m x 50mm Winch Extension Strap	4000	1.35	Each	1
342306B	20m x 50mm Winch Extension Strap	4000	2.47	Each	1
342308B	30m x 50mm Winch Extension Strap	4000	3.42	Each	1



## Black Rat 4WD Accessories



### Black Rat 4WD Safety Recovery Bag Kit

Product Code	Description	Weight (kg)	UOM	Pack Qty
342350BK	Complete Kit	11.6	Each	1

#### The kit contains:

- > 1 x 4WD recovery bag complete with reflective triangle
- > 1 x 9 metre x 60mm heavy duty snatch strap
- > 1 x heavy duty off road block .to suit up to 11mm wire rope
- > 1 x 3 metre x 75mm tree truck protector with 10,000kgs MBS
- > 1 x 5 metre x 25mm heavy duty ratchet .tie down assembly with a lashing capacity of 500 kg to AS/NZS 4380
- > 1 x 16 x 19mm screw pin bow grade S shackle, W.L.L. 3.2T
- > 1 x 19 x 22mm screw pin bow grade S shackle, W.L.L. 4.7T
- > 1 x open mesh drying bag
- > 1 pair of riggers leather gloves



### Black Rat 4WD Open Weave Mesh Drying Bag

Product Code	Description	Weight (kg)	UOM	Pack Qty
342351B	4WD Open Weave Mesh Drying Bag	0.3	Each	12



### Black Rat 4WD Safety Recovery Bag

Product Code	Description	Weight (kg)	UOM	Pack Qty
342350B	4WD Safety Recovery Bag	0.9	Each	25



# Black Rat 4WD Accessories

## Black Rat 4WD Recovery Hoist, c/w Wire Rope

The light weight Recovery Hoist is manufactured from robust steel and is simple and safe to use in all recovery situations. These units are supplied in capacities of 800 and 1,600 kgs and come complete with: 20 metres of wire rope with a safety hook fitted one end, wire rope reel, extendible handle and spare shear pins. Complies with AS1418.

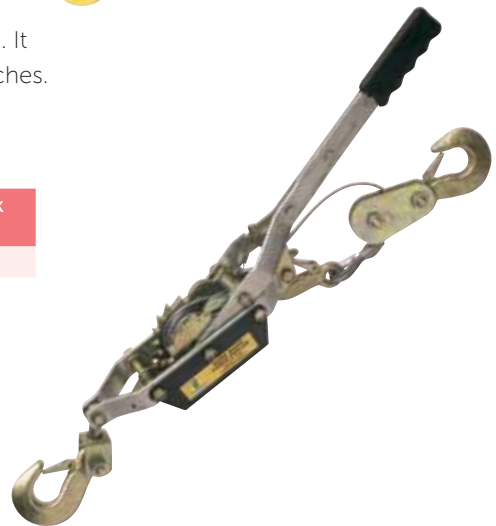


Product Code	Description	Weight (kg)	UOM	Pack Qty
519508B	800kg capacity, supplied with 20m of 8mm wire rope, c/w safety hook. Other lengths available on request	14	Each	1
519516B	1600kg capacity, supplied with 20m of 11mm wire rope, c/w safety hook. Other lengths available on request	26	Each	1

## Black Rat 4WD 2 Tonne Cable Puller

This light weight multi-purpose wire rope puller is a great asset when off-road. It has an all steel construction with drop forged hooks complete with safety latches. One hook has a built-in sheave block for ease of recovery. It comes with 1.5 metres of 5mm wire rope and has a 2 tonne pulling capacity.

Product Code	Description	Weight (kg)	UOM	Pack Qty
341002B	2 tonne Cable Puller c/w 1.5 mtr wire rope	3.8	Each	4



## Black Rat 4WD Off-Road Block c/w Vinyl Carry Bag

Specifically designed for off-road use, this is a robust block made up of two heavy duty steel cover plates that slide open to allow easy insertion of the wire rope. The cast iron sheave will accept up to 11mm wire rope. The block comes in a gold finish complete with lubricated bearings, all packed in a vinyl carry bag. Minimum breaking strain, MBS, of 8,000kg.

Product Code	Description	Weight (kg)	UOM	Pack Qty
514125B	Off-Road Block with Carry bag	3.8	Each	1



## Black Rat 4WD Accessories



### Black Rat 4WD Recovery Folding Shovel c/w Handy Carry Pouch

This compact, light weight shovel is made from steel for durability with a serrated blade for tough jobs. It has a knurled collar to easily secure the blades in position. Each unit comes with a carry bag and measures 425mm x 152mm in a folded position.

Product Code	Description	Weight (kg)	UOM	Pack Qty
519507B	Folding Shovel c/w Carry Bag	1.1	Each	20



### Black Rat 4WD Polyester. Equalising Straps fitted with Grade 70 Safety Hooks each end.

Manufactured from 50mm black polyester webbing and fitted with Grade 70 safety hooks each end. This product is connected to both front recovery points of the vehicle and equalises the forces on the chassis when being towed.

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
519503B	4m x 50mm Equalising Straps	4000	1.3	Each	1



### Black Rat 4WD Rated Bow Shackles (Boxed)

Conforming to AS2741 these Grade S shackles are tested and marked with the Working Load Limit, WLL. The two items listed below are the most commonly used with 4WD equipment, other sizes available on request.

Product Code	Description	WLL (t)	Weight (kg)	UOM	Pack Qty
342216BK	16 x 19mm 4WD Grade S Bow Shackles	3.2	0.65	Each	2
342219BK	19 x 22mm 4WD Grade S Bow Shackles	4.7	1.115	Each	1





# Black Rat 4WD Accessories

## Black Rat 4WD Towing Hook Assembly

This handy accessory allows easy coupling of recovery equipment. These hooks are manufactured from forged steel and come in black or chrome finish with nuts, bolts and plate to suit standard tow bars. Minimum Breaking Strain, MBS, of 4,545kg.

Product Code	Description	Weight (kg)	UOM	Pack Qty
519501B	Towing Hook Assembly (BLACK)	1.015	Each	6
519502B	Towing Hook Assembly (CHROME)	1.045	Each	6



## Black Rat 4WD Towing Kit c/w Carry Bag

Comprising of a 4 metre polyester towing strap complete with reinforced eyes and a vinyl carry bag. This product has a built-in elasticised retention cord to minimise recoil. In the event that the strap is pulled to breaking strain the load bearing fibres are restrained, thus eliminating the 'sling-shot' effect of a standard nylon strap.

Product Code	Description	MBS (kg)	Weight (kg)	UOM	Pack Qty
342309BK	4m Towing Kit c/w carry bag	12000	3.5	Each	1



## Black Rat 4WD Accessories



### Black Rat Ratchet Assemblies

When lashing down loads in a 4WD situation, it is important to use heavy duty reliable tie downs. Black Rat ratchet tie downs are fully tested with polyester webbing, reinforced eyes, steel hooks and keepers, and two protective wear sleeves. They comply to Australian and New Zealand Standards AS/NZS4380. Standard sizes are 25mm x 5 metre, lashing capacity of 500kg, 35mm x 6 metre, lashing capacity of 1,000kg.

### Black Rat 4WD Heavy Duty 5m x 25mm Ratchet Tie Down Assembly with Hook & Keeper & Protective Sleeves

Product Code	Description	Weight (kg)	UOM	Pack Qty
349025BRB	Heavy Duty Ratchet With New Rubber Grip. Fitted with 5m x 25mm webbing and Hook & Keeper c/w Protective Sleeves. L.C. 500 Kg	0.85	Each	6
349025BRSB	Heavy Duty Ratchet With New Rubber Grip. Fitted with 4m x 25mm webbing and Black Vinyl coated. "S" Hooks c/w Protective Sleeves. L.C. 450 Kg	0.8	Each	6



### Black Rat 4WD Heavy Duty 5m x 25mm Ratchet Tie Down Assembly with Hook & Keeper & Protective Sleeves

Product Code	Description	Weight (kg)	UOM	Pack Qty
349035BRB	Heavy Duty Ratchet With New Rubber Grip Fitted with 6m x 35mm webbing and Hook & Keeper c/w Protective Sleeves. L.C. 1000 Kg	1.8	Each	5
349035BRSB	Heavy Duty Ratchet With New Rubber Grip. Fitted with 6m x 35mm webbing and Black Vinyl coated. "S" Hooks c/w Protective Sleeves. L.C. 600 Kg	1.5	Each	6



# Black Rat 4WD Accessories



## 4WD Grade 70 Combo Drag Chain Kit with Grab, Lug Link & Slip Hooks

This is one of the products most used for 4WD vehicles. To give you the full range of uses, the Black Rat G70 combo drag kit comes supplied with three fittings - lug link, grab hook and slip hook complete with chain in a handy bucket. The chain is 5 metres long and manufactured from Grade 70 high tensile steel. Fully tested to Australian and New Zealand Standard AS/NZS4344.



Product Code	Description	Chain Size (mm)	Chain Length (m)	Chain Part Number	Grab Hook Part Number	Lug Link Part Number	Slip Hook Part Number	LC (kg)	Weight (kg)	UOM
412007BK	5m x 7mm with Grab, Lug Link & Slip Hooks	7.1	5	145007	354008	353008	356008	3000	6.69	Each
412008BK	5m x 8mm with Grab, Lug Link & Slip Hooks	8	5	145008	354008	353008	356008	3800	8.39	Each
412010BK	5m x 10mm with Grab, Lug Link & Slip Hooks	10	5	145010	354010	353010	356010	6000	12.8	Each

## 4WD Grade 70 Drag Chain with Grab Hook & Lug Link

Product Code	Description	Chain Size (mm)	Chain Length (m)	Chain Part Number	Grab Hook Part Number	Lug Link Part Number	LC (kg)	Weight (kg)	UOM
410007BK	5m x 7mm with Grab Hook & Lug Link	7.1	5	145007	354008	353008	3000	6.33	Each
410008BK	5m x 8mm with Grab Hook & Lug Link	8	5	145008	354008	353008	3800	8.03	Each
410010BK	5m x 10mm with Grab Hook & Lug Link	10	5	145010	354010	353010	6000	12.2	Each



## Black Rat 4WD Accessories

### 4WD Grade 70 Drag Chain with Slip Hook & Lug Link



Product Code	Description	Chain Size (mm)	Chain Length (m)	Chain Part Number	Slip Hook Part Number	Lug Link Part Number	LC (kg)	Weight (kg)	UOM
411007BK	5m x 7mm with Slip Hook & Lug Link	7.1	5	145007	356008	353008	3000kg	6.31	Each
411008BK	5m x 8mm with Slip Hook & Lug Link	8	5	145008	356008	353008	3800kg	8.01	Each
411010BK	5m x 10mm with Slip Hook & Lug Link	10	5	145010	356010	353010	6000kg	12.3	Each



### Grunt 12v Air Compressor

Product Code	Description	Cylinder (mm)	Power Supply (DC)	Max Pressure (psi)	Current (Amps)	Air Flow (l/min)	Cord with Battery Clips	PU Hose (m)	Weight (kg)	UOM	Pack Carton
GC300	12V Air Compressor- Max 72 litres/ min. Heavy Duty	40	12V	150	30	72	2.4	5	4.75	Each	4
GC400	12V Air Compressor- Max 85 litres/ min. Twin Cylinder	2*30	12V	100-150	30	84	2.4	5	4.5	Each	4





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