

A close-up, front-facing view of a yellow Mercedes-Benz G-Class G-Wagen. The vehicle is parked on a sandy, uneven terrain. The front grille features the Mercedes-Benz logo in the center. Below the grille is a black bumper with two round fog lights. A white tow bar is attached to the front of the vehicle, extending towards the right. The large, treaded tires are visible at the bottom of the frame.

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03.7 TOWING AND RECOVERY

Towing

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Towing

Definitions

Lack of traction only

The wheels of the vehicle remain substantially on the surface of the ground and are unable to gain traction due to the slippery or greasy conditions.

Medium bogging

The wheels of the vehicle are unable to gain traction and have dug in to the ground to about 33% of the wheel diameter.

Severely bogged

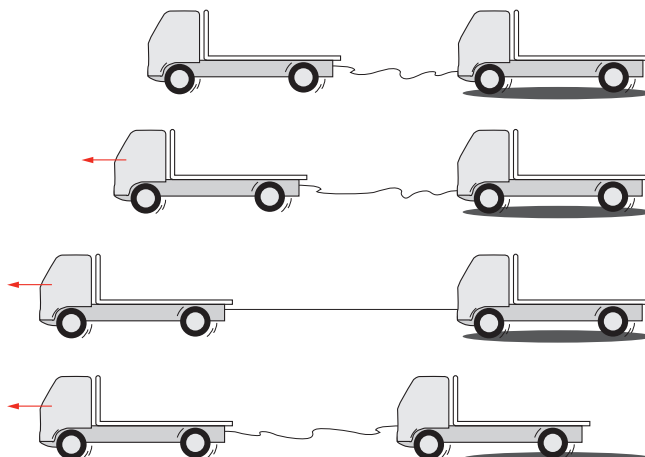
The wheels of the vehicle are unable to gain traction and have buried themselves up to the axles.

Break Strength

The amount of force the strap will resist before breaking.

Tow Strap Calculator for Bogged Vehicles

Break Strength (kg)	Stuck due to lack of traction (kg)	Stuck due to medium bogging (kg)	Stuck due to severe bogging (kg)
4000	8000	4000	2500
8000	16000	8000	5000
10000	20000	10000	6000
20000	40000	20000	12000
30000	60000	30000	18000
40000	80000	40000	24000
50000	100000	50000	30000
60000	120000	60000	36000
80000	160000	80000	48000
100000	200000	100000	60000
	(200%)	(100%)	(60%)



The "Snatch" Method

Snatch Straps Versus Tow Straps

“Snatching” a vehicle is very different from towing a vehicle. When a vehicle is towed the attachment strop is generally static, that is, it has limited stretch and the force is taken up gently and progressively between the tow vehicle and the bogged or incapacitated vehicle.

These straps can be polyester, modified high performance polyester, aramid fibres (as in Kevlar) or high strength polyethylene.

When using a snatch strap, these are usually high stretch nylon. This stretching property allows the strap to store kinetic energy, which is used to pull vehicles from a bog.

After the vehicles are attached, the snatch strap remains slack as the recovering vehicle moves forward at a moderate rate and the strap begins to stretch.

The dynamic force of the moving vehicle and the progressive stretch of the strap will then “snatch” the bogged vehicle out of its entrapment.

Care must be taken when attaching the snatch strap to a suitably sound structural attachment on both vehicles and adequate strength shackles are used, as these can become projectiles should they fail.

- Never try to snatch a vehicle using a tow strap
- Tow straps and snatch straps are not to be used for lifting.



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Bruiser Plus

Bruiser Plus Non-Recoil Tow Slings

Many tow slings are made from materials which allow a build up of energy when under tension. If the sling breaks due to overloading, this energy is released suddenly in a whiplash fashion which can be hazardous to personnel in proximity to the towing operation.

Bruiser plus tow slings are manufactured from high tenacity polyester with a unique safety sleeve and retention strap. Should the sling be overloaded the sling will fall immediately to ground and not recoil in a dangerous manner.

The sling is safely retained because the sleeve elasticity is perfectly matched to the sling adding a critical layer of safety to this type of operation.

Bruiser Plus Non Recoil Tow Slings Technical Data

Type and Break Strength (kg)	Eye Length (mm)	Code EWL 6m	Weight (kg)	Code EWL 10m	Weight (kg)	Code EWL 15m	Weight (kg)
Bruiser Plus 10000	300	BPT106	4.5	BPT1010	7.5	BPT105	11.25
Bruiser Plus 20000	400	BPT206	9.0	BPT2010	15.0	BPT2015	22.0
Bruiser Plus 30000	400	BPT306	13.5	BPT3010	22.5	BPT3015	33.75
Bruiser Plus 40000	400	BPT406	18.0	BPT4010	30.0	BPT4015	45.0
Bruiser Plus 50000	500	BPT506	22.5	BPT5010	37.5	BPT5015	56.0
Bruiser Plus 60000	500	BPT606	27.0	BPT6010	45.0	BPT6015	67.5
Bruiser Plus 80000	600	BPT806	36.0	BPT8010	60.0	BPT8015	90.0
Bruiser Plus 100000	600	BPT1006	45.0	BPT10010	75.0	BPT10015	112.0



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Bruiser

Bruiser Polyester Tow Slings

Manufactured from high tenacity polyester, bruiser tow slings offer reliable performance at an economical cost.

Bruiser Tow Slings Technical Data

Type and Break Strength (kg)	Eye Length (mm)	Code EWL 6m	Weight (kg)	Code EWL 10m	Weight (kg)	Code EWL 15m	Weight (kg)
Bruiser 10000	300	BT106	4.4	BT1010	7.4	BT105	11.15
Bruiser 20000	400	BT206	8.8	BT2010	14.8	BT2015	21.8
Bruiser 30000	400	BT306	13.3	BT3010	22.3	BT3015	33.55
Bruiser 40000	400	BT406	17.8	BT4010	29.7	BT4015	44.8
Bruiser 50000	500	BT506	22.2	BT5010	37.2	BT5015	55.7
Bruiser 60000	500	BT606	26.1	BT6010	44.8	BT6015	67.1
Bruiser 80000	600	BT806	35.6	BT8010	59.6	BT8015	89.6
Bruiser 100000	600	BT1006	44.6	BT10010	74.6	BT10015	111.6



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Titan

Titan Modified High Performance Polyester Tow Slings

These high performance tow slings are manufactured from our Modified high performance polyester. Twice as strong as traditional polyester also means half the size and weight of standard slings.

Advantages such as easier shackle interface and manual handling benefits make these high performance slings an ideal choice for the safety conscious.

They are encased within a protective sleeve for further durability and are capable of exceptional strength to weight ratio, especially attractive when dealing with high tonnage applications.

Titan Tow Slings Technical Data

Type and Break Strength (kg)	Eye Length (mm)	Code EWL 6m	Weight (kg)	Code EWL 10m	Weight (kg)	Code EWL 15m	Weight (kg)
Titan 20000	200	TT206	4.5	TT2010	7.5	TT2015	11.0
Titan 30000	200	TT306	6.75	TT3010	11.25	TT3015	16.5
Titan 40000	300	TT406	9.0	TT4010	15.0	TT4015	22.0
Titan 50000	300	TT506	11.25	TT5010	18.75	TT5015	27.5
Titan 60000	400	TT606	13.5	TT6010	22.5	TT6015	33.0
Titan 80000	400	TT806	18.0	TT8010	30.0	TT8015	44.0
Titan 100000	400	TT1006	22.5	TT10010	37.5	TT10015	55.0
Titan 150000	500	TT1506	33.75	TT15010	56.0	TT15015	82.5
Titan 200000	500	TT2006	45.0	TT20010	75.0	TT20015	110.0
Titan 300000	600	TT3006	67.5	TT30010	112.0	TT30015	165.0



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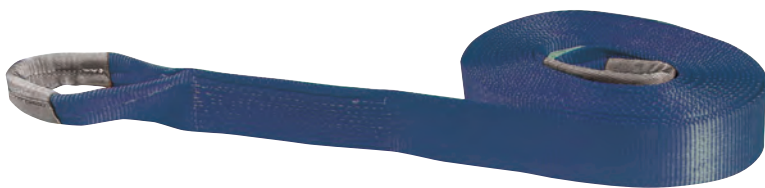
Pink Polyester Tow Slings and 4WD Snatch Straps

Based on traditional polyester round lifting slings, these are coloured pink to differentiate from the lifting sling colour code standard and to be identified as a tow sling only.



Pink Tow Slings Technical Data

Break Strength (kg)	Thickness Under Load	Width Under Load	Code/Length 2 Metres	Code/Length 5 metres	Code/Length 10 metres	Code/Length 20 metres	Weight Per Metre
7,000	6	45	EP1000x2.0	EP1000x5.0	EP1000x10.0	EP1000x20.0	0.40
14,000	7	48	EP2000x2.0	EP2000x5.0	EP2000x10.0	EP2000x20.0	0.60
21,000	8	60	EP3000x2.0	EP3000x5.0	EP3000x10.0	EP3000x20.0	0.80
35,000	10	75	EP5000x2.0	EP5000x5.0	EP5000x10.0	EP5000x20.0	1.20



4WD Snatch Straps Technical Data

Code	Type	Length (m)	Width (m)	Break Strength (kg)	Stretch (%)
RS9-0x9.0	Standard snatch strap	9.0	60	8,000	20
RS9HD-0x9.0	Heavy duty snatch strap	9.0	60	16,000	20
TTP-0	Tree trunk protector	3.0	75	8,000	10
WS-L10	Winch extension strap	10.0	50	4,000	10
WS-L20	Winch extension strap	20.0	50	4,000	10
WS-L30	Winch extension strap	30.0	50	4,000	10
C2-2-RS9HD-0x9.0	Super heavy duty snatch strap	9.0	120	24,000	20

4WD Snatch Straps

SpanSet nylon recovery straps offer 20% stretch for smooth snatches in four wheel drive situations where winching is not a viable option.