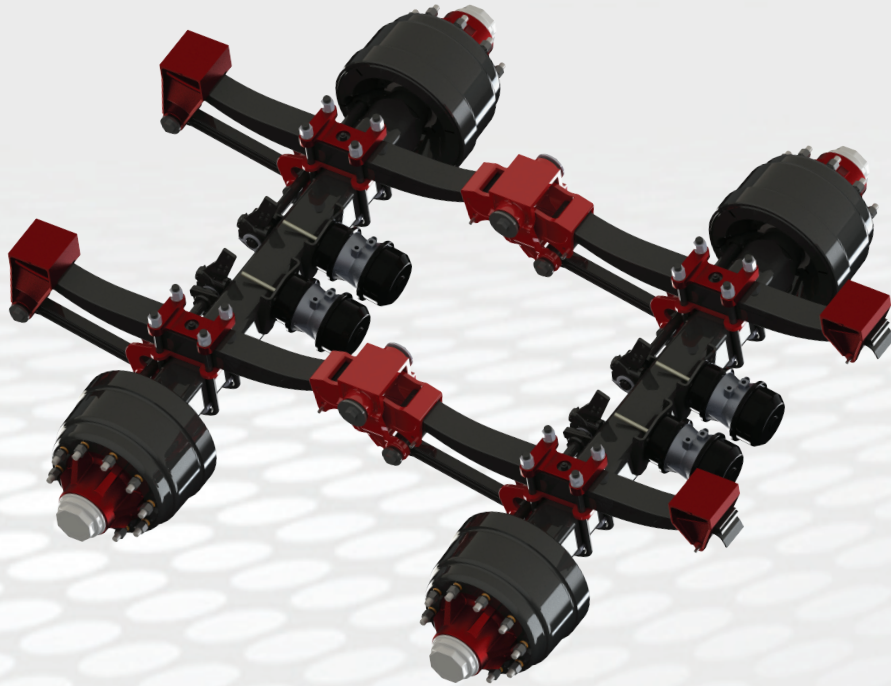
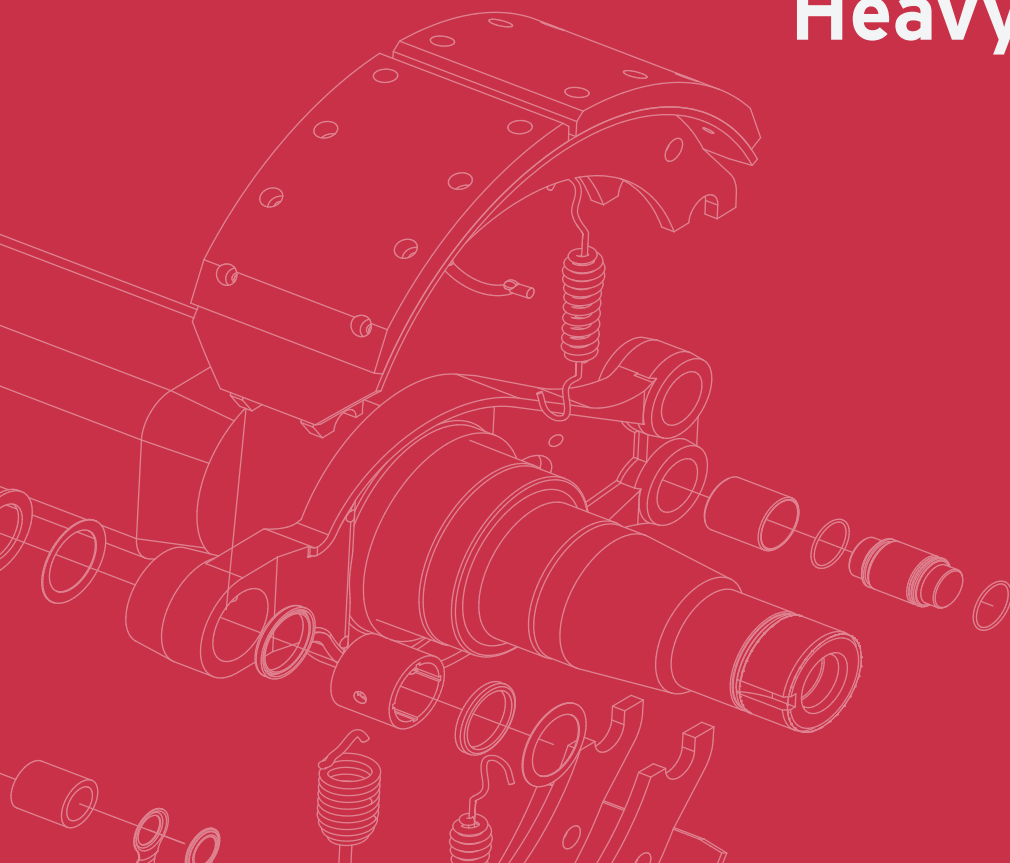




Heavy Duty Range

July 2021





Ireland

Naas Industrial Estate
Naas, Co. Kildare
W91 YH30, Ireland

Tel +353 (0) 45 897 553

Fax +353 (0) 45 848 638

United Kingdom

Unit 1, Westway 21
Chesford Grange
Woolston, Warrington
WA1 4SZ, England

Tel +44 (0) 1925 817 689

Fax +44 (0) 1925 817 153

Northern Ireland

201 York Road
Belfast, Northern Ireland
BT15 3HB

Tel +44 (0) 2890 740 055

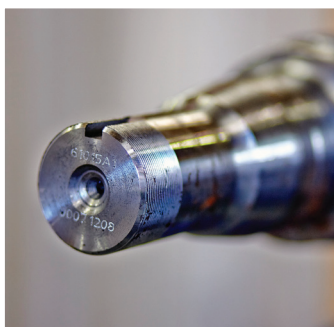
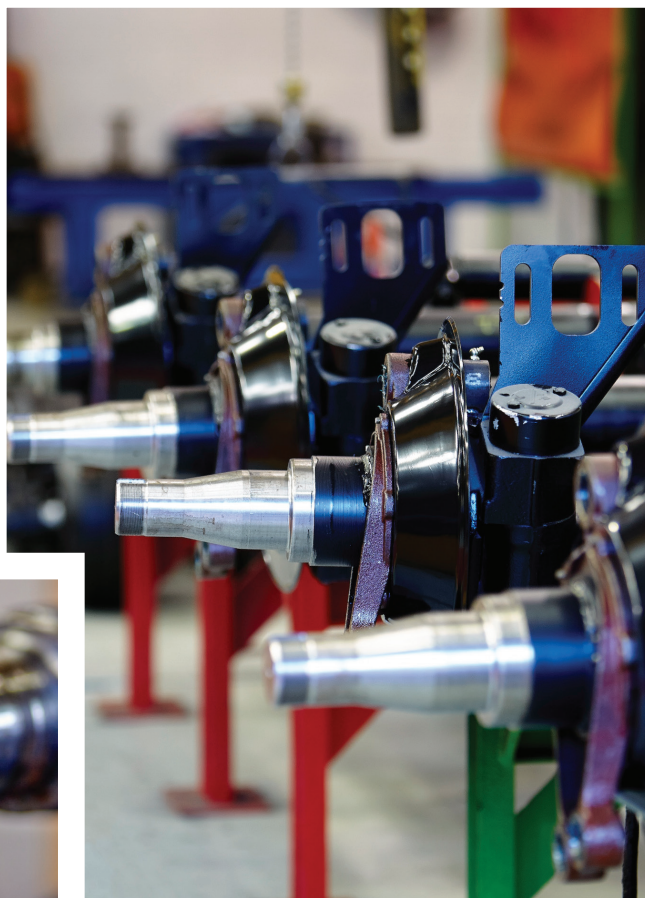
Fax +44 (0) 2890 740 718

sales@granningaxles.ie

Content

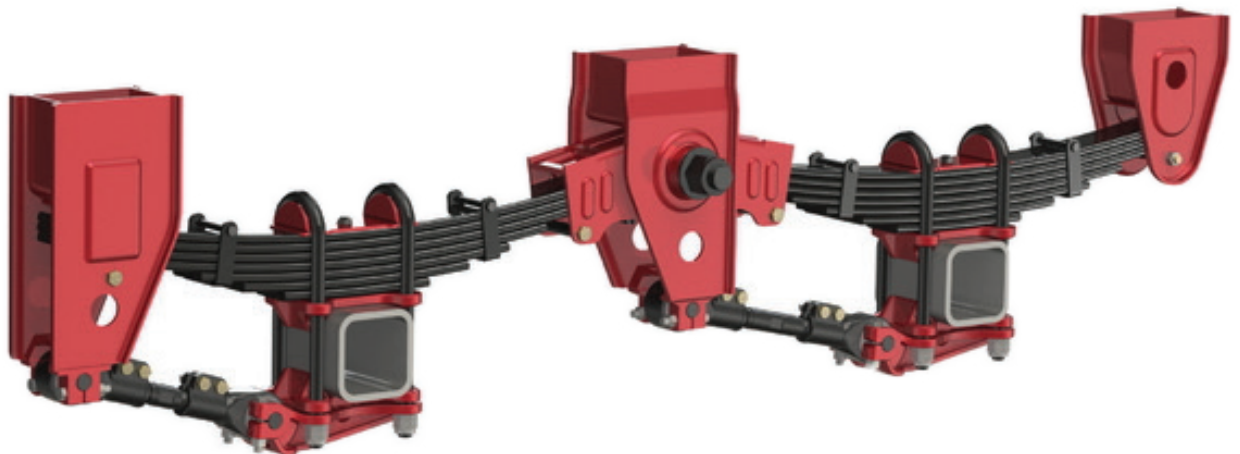
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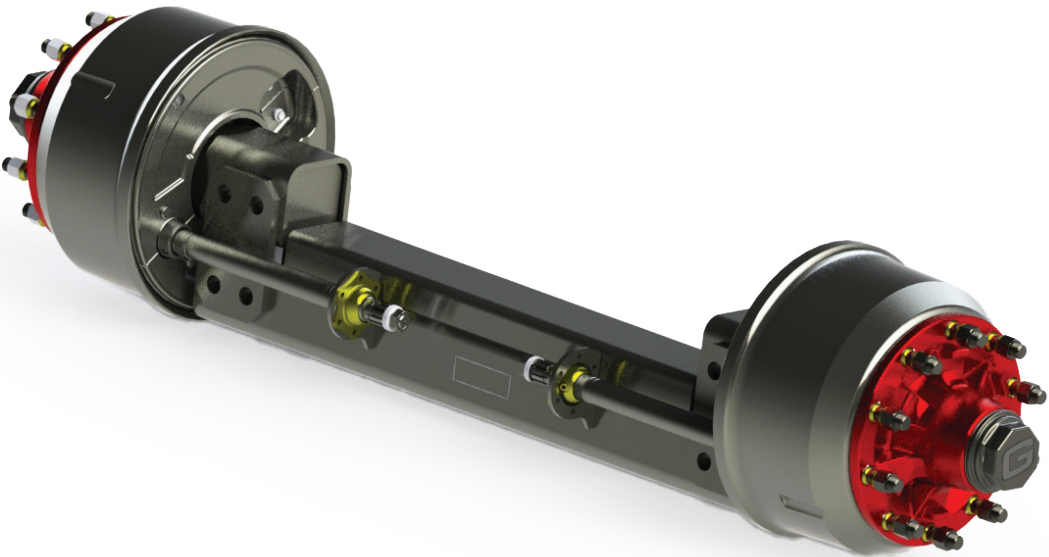
Heavy Duty Straight Axles	4
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Heavy Duty Range

Axles, Suspensions, Walking Beams & Extreme Weight

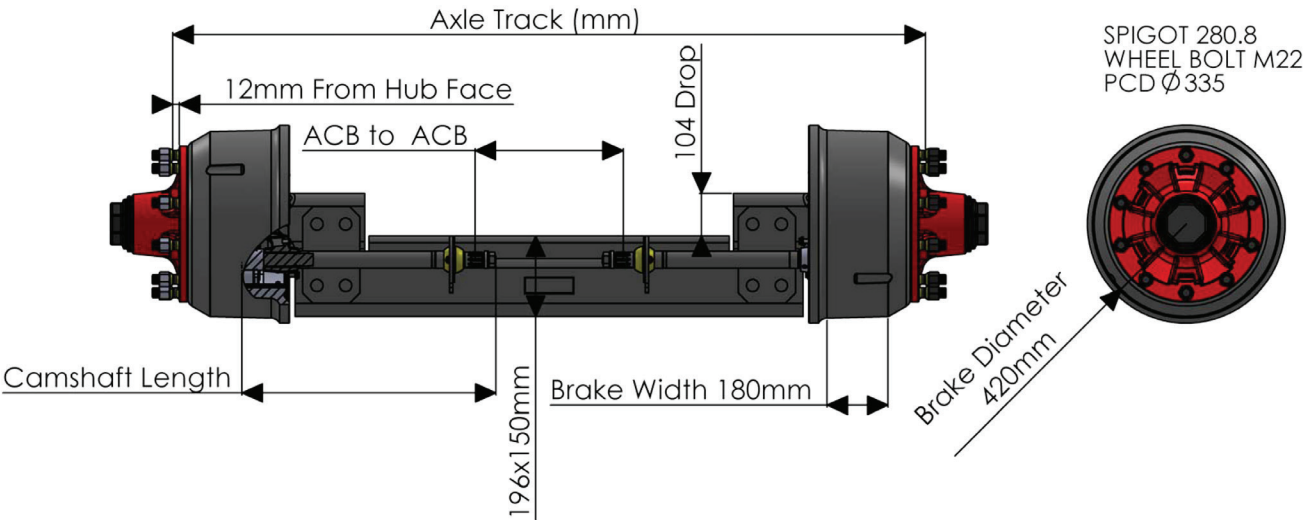




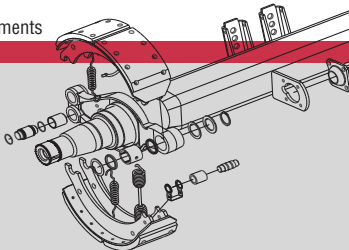
250 Series - Stepped Axle

Part No	Brake Size	Beam Type	Track	Camshaft	ACB to ACB	Beam Capacity*	Wheelbolt
60250	420x180	□ 150mm	1830mm	623mm	350mm	14,000kg	DTT
60251	420x180	□ 150mm	2000mm	623mm	520mm	14,000kg	DTT
60252	420x180	□ 150mm	1830mm	663mm	270mm	14,000kg	DTT
60253	420x180	□ 150mm	2000mm	280mm	1212mm	14,000kg	DTT

* Values provided may vary depending on suspension overhang, speed, road conditions, offset wheels.



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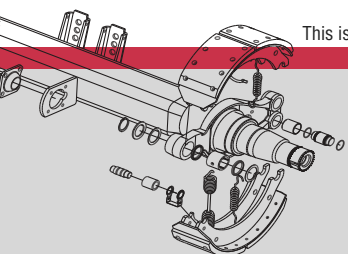
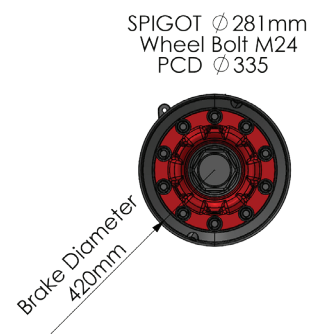
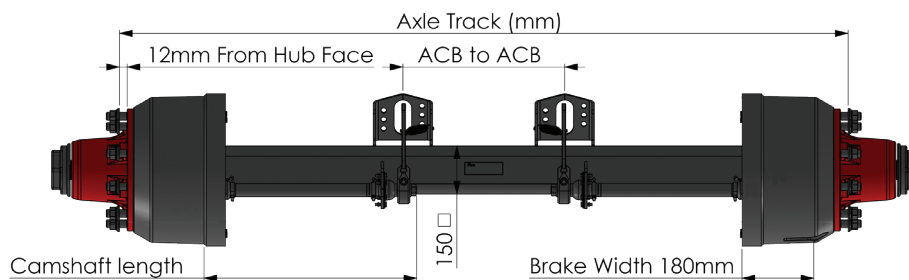
Heavy Duty Straight Axles



500B Series

Part No	Brake Size	Beam Type	Track	Camshaft	ACB to ACB	Beam Capacity*	Wheelbolt
69500	420x200	□ 150mm	1850mm	641mm	284mm	18,000kg	MTT
69501	420x200	□ 150mm	2250mm	725mm	505mm	18,000kg	MTT

* Values provided may vary depending on suspension overhang, speed, road conditions, offset wheels.



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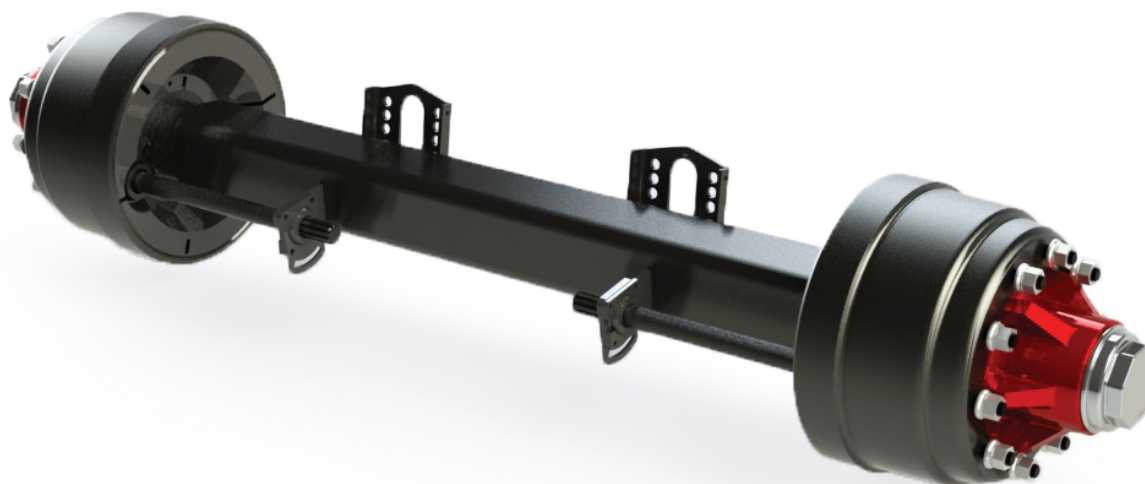
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Heavy Duty Straight Axles



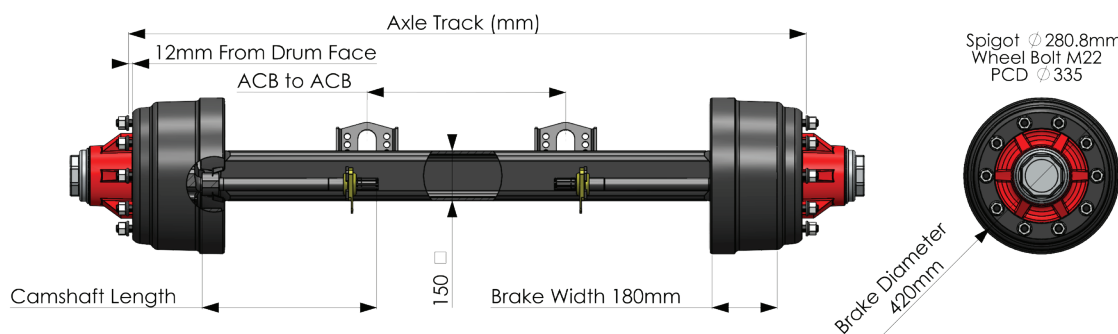
950 Series

Part No	Brake Size	Beam Type	Track	Camshaft / SP	ACB to ACB**	Beam Capacity*	Brake Capacity*	Wheelbolt
60957FD	420x180	□ 150mm	1840mm	543mm / 37	390mm	13,000kg	11,000kg	DTT
60961FD	420x180	□ 150mm	2324mm	613mm / 37	734mm	13,000kg	11,000kg	DTT
60965FD	420x180	□ 150mm	2424mm	443mm / 37	1074mm	13,000kg	11,000kg	DTT
60969F	420x180	□ 150mm	2224mm	700mm / 37	460mm	13,000kg	11,000kg	MTT
60974FD	420x180	□ 150mm	2024mm	705mm / 10	250mm	13,000kg	11,000kg	DTT
60976FD	420x180	Ø 127mm	1880mm	524mm / 10	468mm	11,500kg	11,000kg	MST
60977FD	420x180	Ø 127mm	2024mm	685mm / 10	290mm	12,500kg	11,000kg	DTT
60982F	420x180	□ 150mm	2024mm	695mm / 10	226mm	13,000kg	11,000kg	MTT
60983F	420x180	□ 150mm	2174mm	695mm / 10	376mm	13,000kg	11,000kg	MTT
60984F	420x180	□ 150mm	2224mm	695mm / 10	426mm	13,000kg	11,000kg	MTT
60991FD	420x180	□ 150mm	2174mm	705mm / 10	400mm	13,000kg	11,000kg	DTT
60992FD	420x180	□ 150mm	2224mm	705mm / 10	450mm	13,000kg	11,000kg	DTT
60993FD	420x180	□ 150mm	2024mm	618mm / 10	424mm	13,000kg	11,000kg	DTT

* Values provided may vary depending on suspension overhang, speed, road conditions, offset wheels.

** All ACB components comes loose.

SP - No. of Splines



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6

Ireland

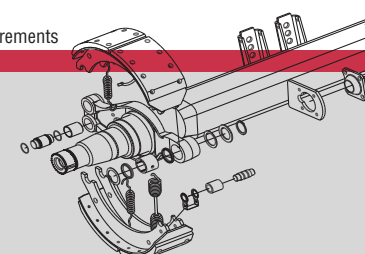
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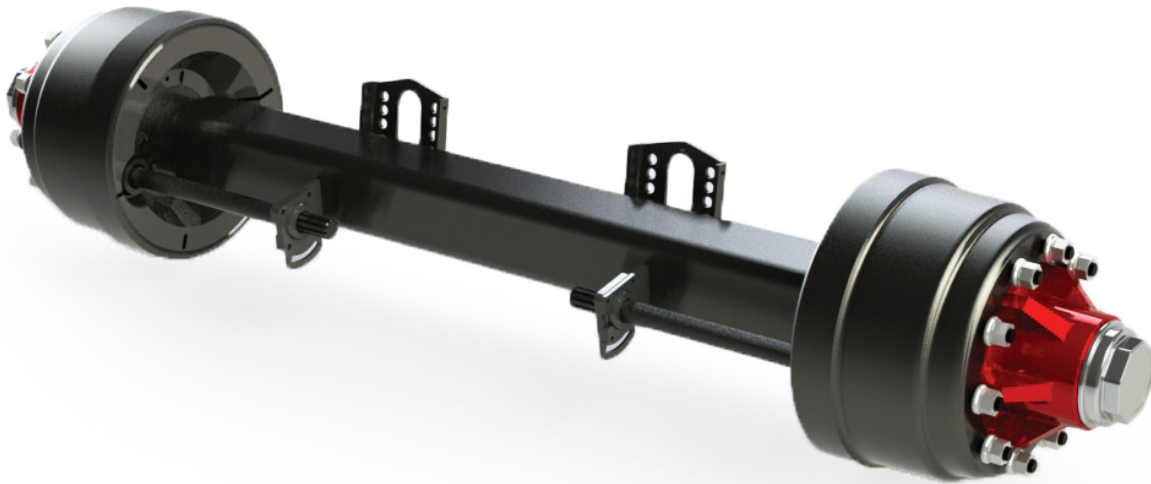
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Heavy Duty Straight Axles



980 Series

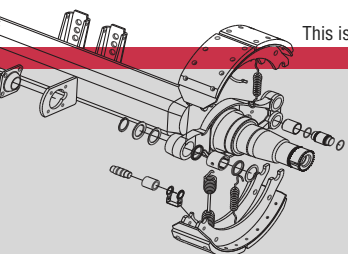
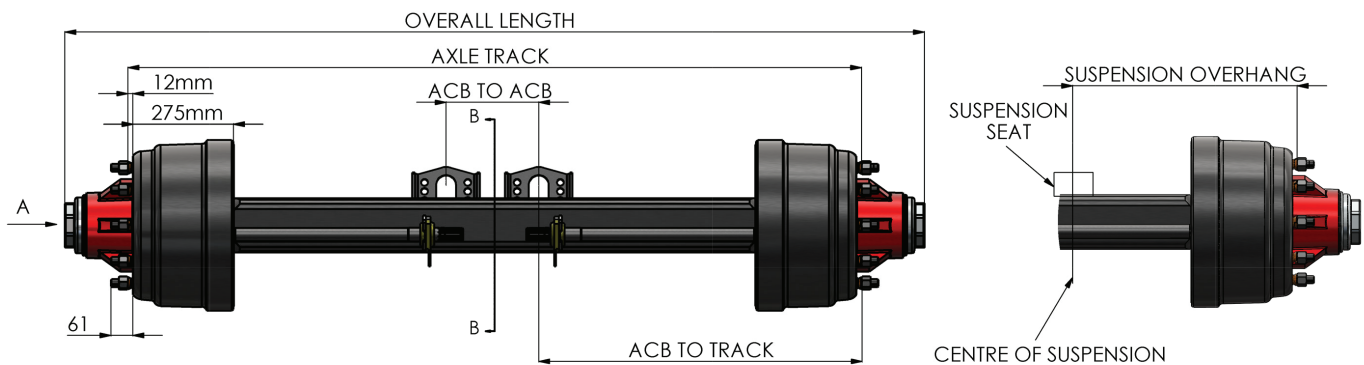
Part No	Track	Camshaft	Wheelbolt	Overall Length	ACB to ACB*	ACB* to Track	Beam Capacity**	Inside Drum to Inside Drum
60987FD	2100mm	705mm	Twin Wheel DIN Nut	2460mm	322mm	889mm	16,000kg	1520mm
60988FD	1840mm	543mm	Twin Wheel DIN Nut	2200mm	386mm	727mm	16,000kg	1260mm
60979FD	2024mm	705mm	Twin Wheel DIN Nut	2384mm	250mm	889mm	16,000kg	1444mm

* All ACB components come loose.

** Increased beam capacity for Off Road use:

Example 'Therefore at common speed limit of 25kph, Max beam loading @ 450 overhang would be 19,000kg'.

For full specification please ref to online datasheet: <https://granningaxles.ie/420x180-980-series>



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F. +353 (0) 45 848 638

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F. +44 (0) 2890 752 718

Heavy Duty Straight Axles



C Range

Brake Size	Beam Type	Track	Camshaft length	ACB to ACB*	Load Capacity	Wheelbolt
420x220	□ 140mm	2149mm	700mm	530mm	13,000kg at 105km/h	10 stud Single ISO
420x220	□ 140mm	2040mm	700mm	421mm	13,000kg at 105km/h	10 stud Single ISO

* All ACB components comes loose.

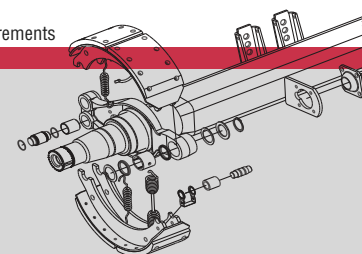


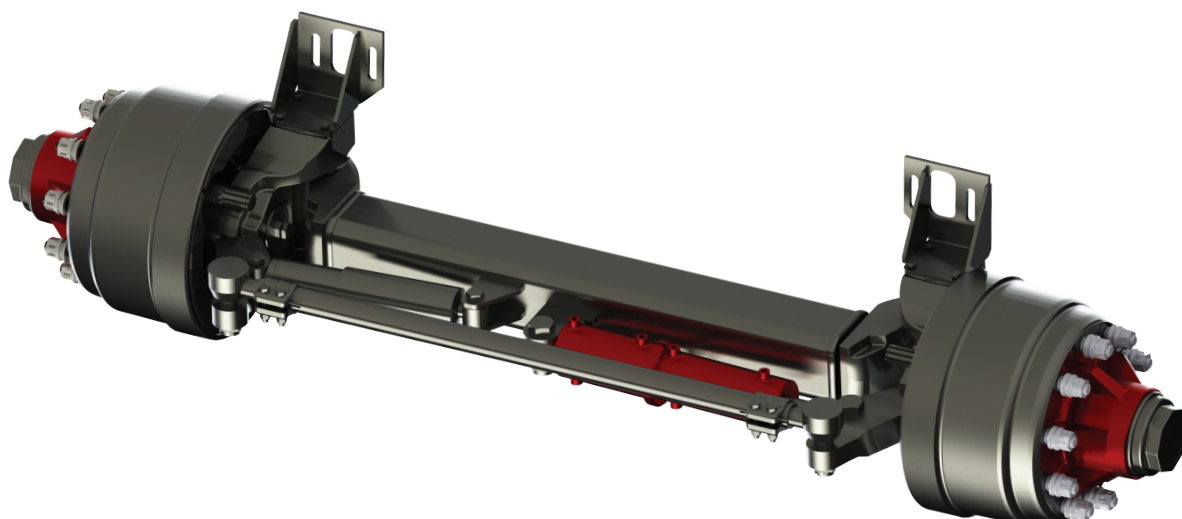
T Range

Brake Size	Beam Type	Track	Camshaft length	ACB to ACB*	Load Capacity	Wheelbolt
420x220	Ø 178mm	2300mm	641mm	408mm	32000Kg 10km/h	10 stud Single ISO

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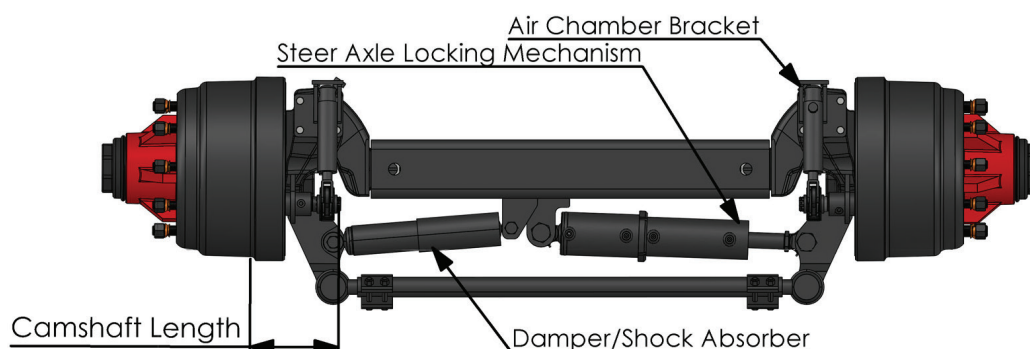
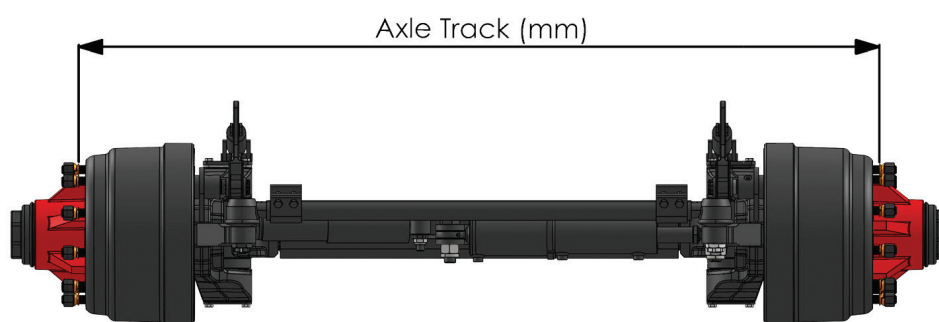




980 Series

Part No	Track	Beam Type	Camshaft	Self Steer Command	Locking	B.Chamber Position	Wheelbolt
60979AS1	2024	□ 150mm	212mm	Both	Hydrualic	Over axle	DST
60987AS1	2100	□ 150mm	212mm	Both	Hydrualic	Over axle	DST
60989AS1	2040	□ 150mm	212mm	Both	Hydrualic	Over axle	DST

S at the end of the axle code signifies it is a steer axle. The last digits indicates the exact steer axle type in that axle series.



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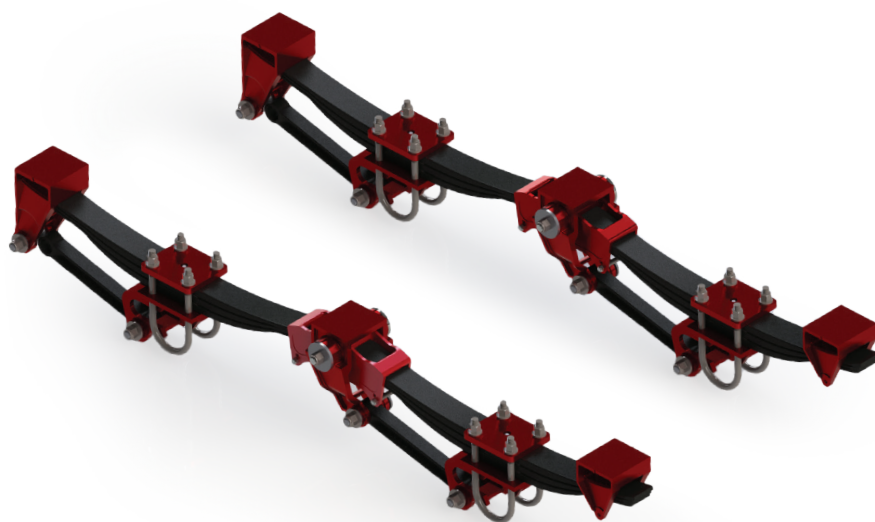
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Heavy Duty Mechanical Suspensions



**Offset Hanger
Arrangement**



100mm Wide (13 Tonne)

Part No	Axle Spread (mm)	Unladen Height	No. of Axles	Spring Type	Axle Seat Type	Hanger Spacing	Hanger Height
97656	1360	315	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97657	1360	380	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97658	1360	315	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97659	1360	315	TANDEM	100mm 3 LEAF	36187	1205,1205	A=286, B=289, C=175
97660	1360	380	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97661	1360	380	TANDEM	100mm 3 LEAF	36187	1205,1205	A=286, B=289, C=175
97668	1500	315	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97669	1500	315	TANDEM	100mm 3 LEAF	36187	1260,1260	A=286, B=289, C=175
97670	1500	380	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97671	1500	380	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97672	1500	380	TANDEM	100mm 3 LEAF	36187	1260,1260	A=286, B=289, C=175
97773	1500	315	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97676	1360	315	TRI	100mm 3 LEAF	97704	1205,1363, 1205	A=286, B=289, C=175

* Capacity calculated per Axle

Other suspension arrangements with mono leaf, multileaf , riser blocks also available. See website for more info.

Axle Seat Types



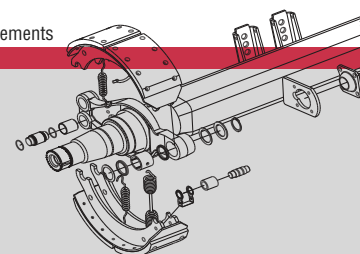
**97704 SEAT
(R127)**



**36187 SEAT
(150SQ)**

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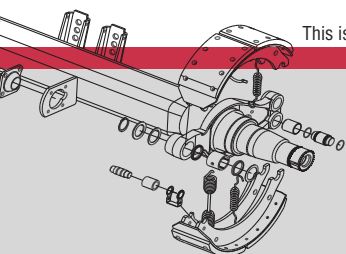
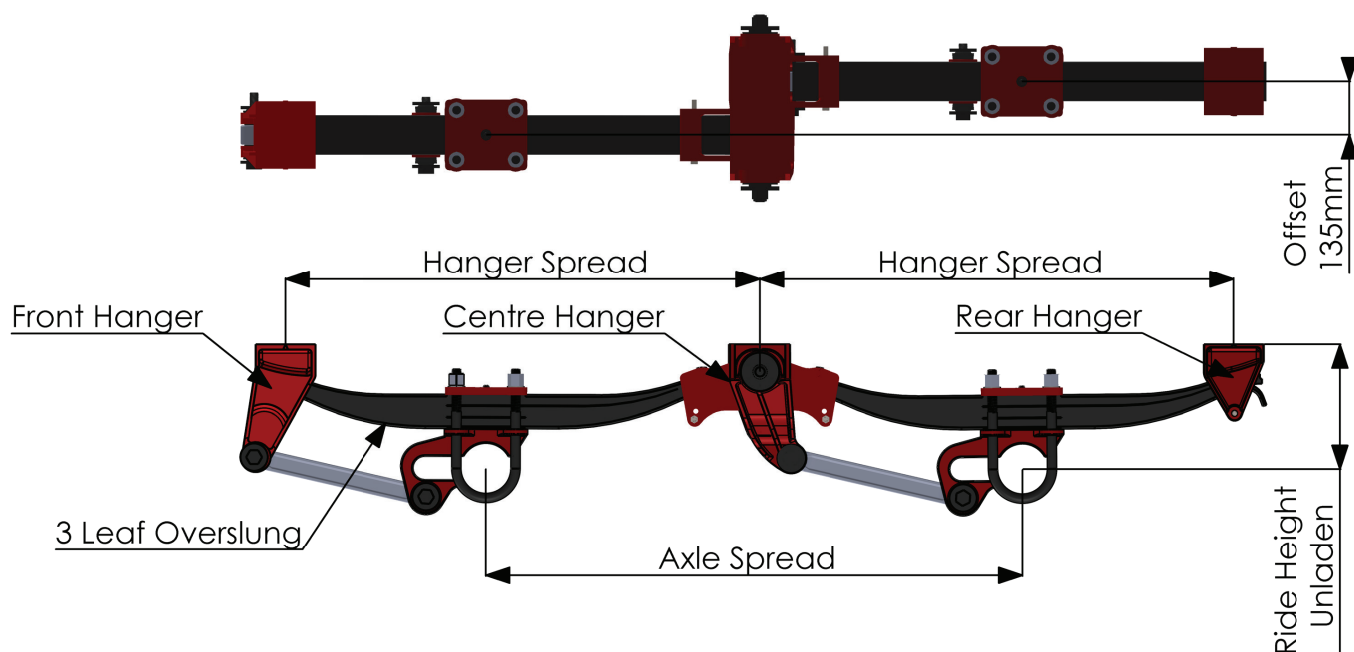


100mm Wide Offset (13 Tonne)

Part No	Axle Spread (mm)	Unladen Height	No. of Axles	Spring Type	Axle Seat Type	Hanger Spacing	Hanger Height
97662	1360	315	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97663	1360	315	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97664	1360	315	TANDEM	100mm 3 LEAF	36187	1205,1205	A=286, B=289, C=175
97665	1360	380	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97666	1360	380	TANDEM	100mm 3 LEAF	97704	1205,1205	A=286, B=289, C=175
97667	1360	380	TANDEM	100mm 3 LEAF	36187	1205,1205	A=286, B=289, C=175
97673	1500	315	TANDEM	100mm 3 LEAF	36187	1260,1260	A=286, B=289, C=175
97674	1500	380	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97675	1500	380	TANDEM	100mm 3 LEAF	36187	1260,1260	A=286, B=289, C=175
97774	1500	315	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175
97781	1500	315	TANDEM	100mm 3 LEAF	97704	1260,1260	A=286, B=289, C=175

* Capacity calculated per Axle

Other suspension arrangements with mono leaf, multileaf , riser blocks also available. See website for more info.



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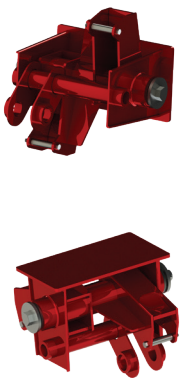
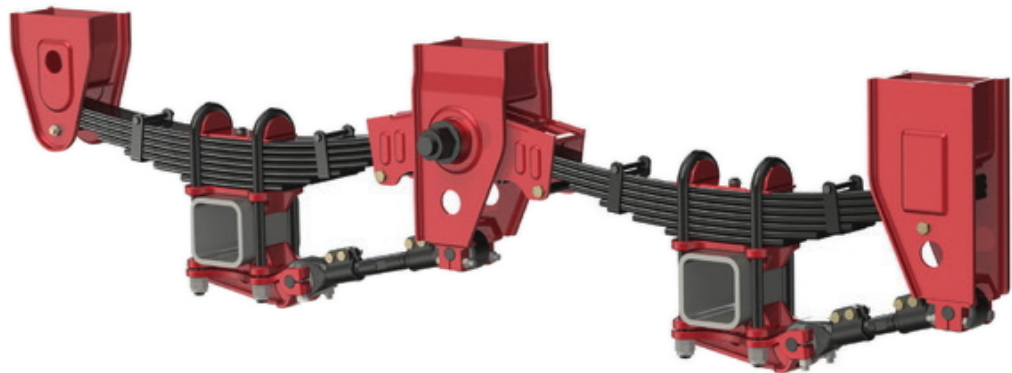
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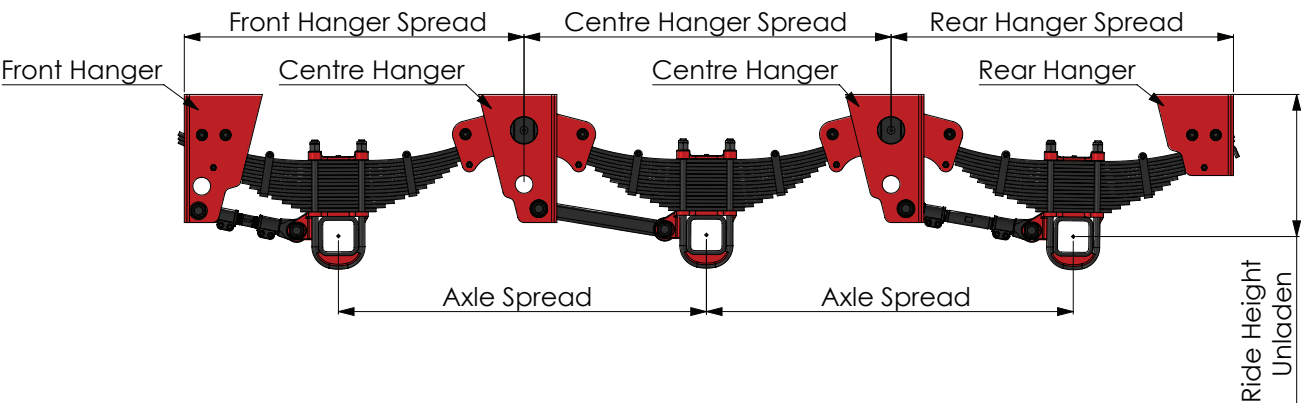
Offset Hanger
Arrangement



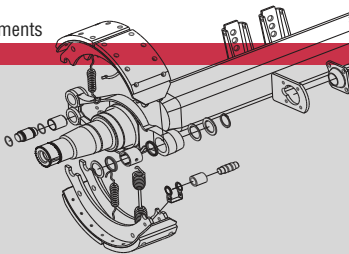
16T series

Part No	Beam Type	Suspension Capacity*	Axle Spread	Number of Axles	Ride Height (unladen)	Spring Type
SUSP G 21041	□ 150mm	16,000kg	1360mm	Tandem	200mm	9 leafs 90x16
SUSP G 21042	□ 150mm	16,000kg	1500mm	Tandem	200mm	9 leafs 90x16
SUSP G 21043	□ 150mm	16,000kg	1360mm	Tandem	250mm	9 leafs 90x16
SUSP G 21044	□ 150mm	16,000kg	1500mm	Tandem	250mm	9 leafs 90x16
SUSP G 21045	□ 150mm	16,000kg	1360mm	Tandem	395mm	9 leafs 90x16
SUSP G 21046	□ 150mm	16,000kg	1820mm	Tandem	444mm	9 leafs 90x16
SUSPM150-2	□ 150mm	16,000kg	1500mm	Tandem	395mm	9 leafs 90x16

* Capacity calculated per Axle
Offset hangers available in the above arrangements on request.



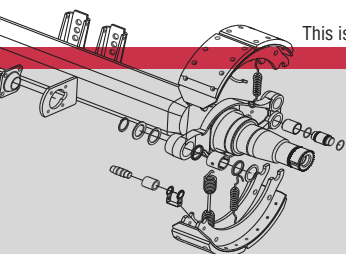
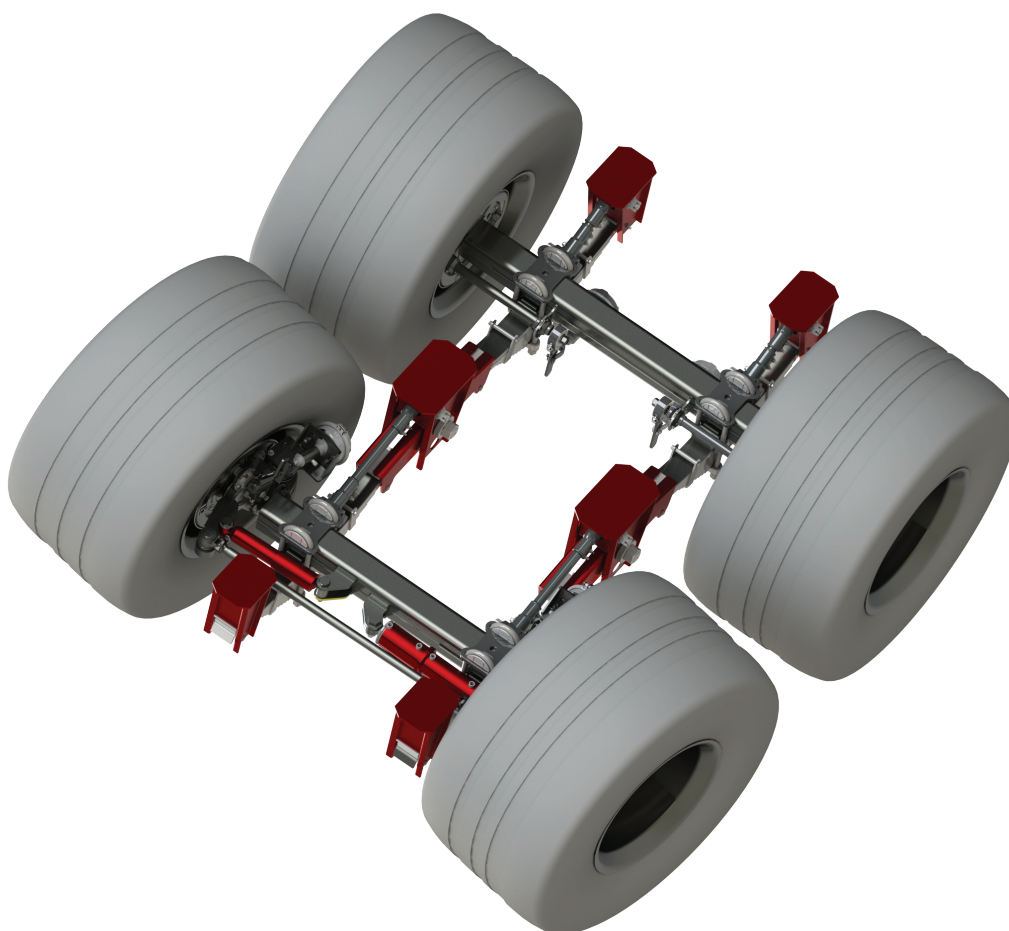
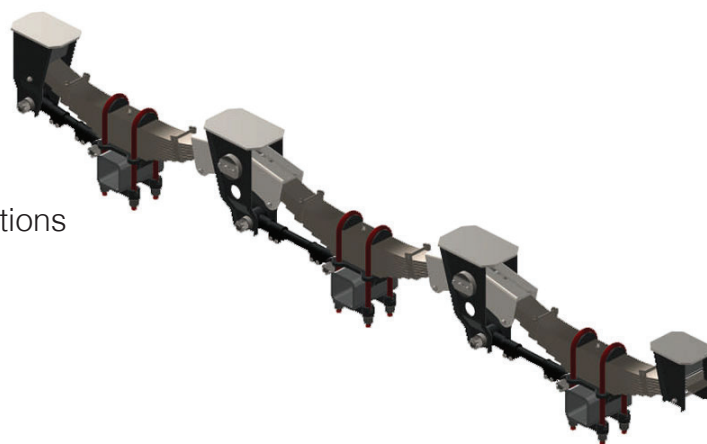
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C 22000 Range Suspensions

Suspension Specification

- 9T/12T/14T/16T/20T load per axle options
- 140mm Clamp group
- 100mm wide multileaf springs
- Overslung and Underslung options
- Offset hanger option available



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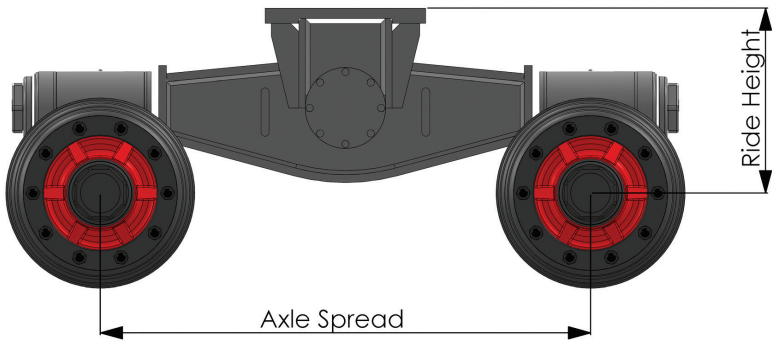


Argo Bogie

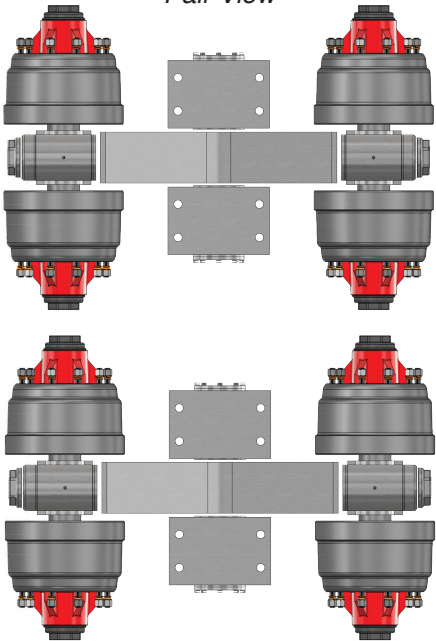
Part No	Beam Type	Capacity* (20km/h)	Axle Spread	Clamping Style	Axle Track	Mounting Height**
FW41-1550	Ø 127mm	40,000kg Pair	1220mm	Overslung	860mm	Variable
FW43-1550	Ø 127mm	80,000kg Pair	1550mm	Overslung	965mm	Variable

* Capacity calculated per pair (as per drawing below) and varies subject to speed.

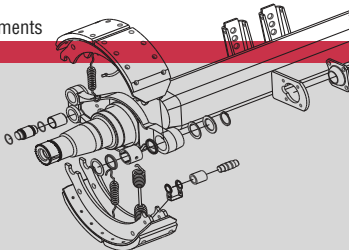
** Mounting Height options available: 335mm; 360mm; 457mm.



Pair View



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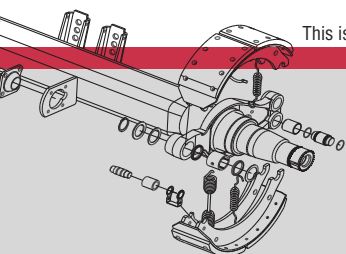
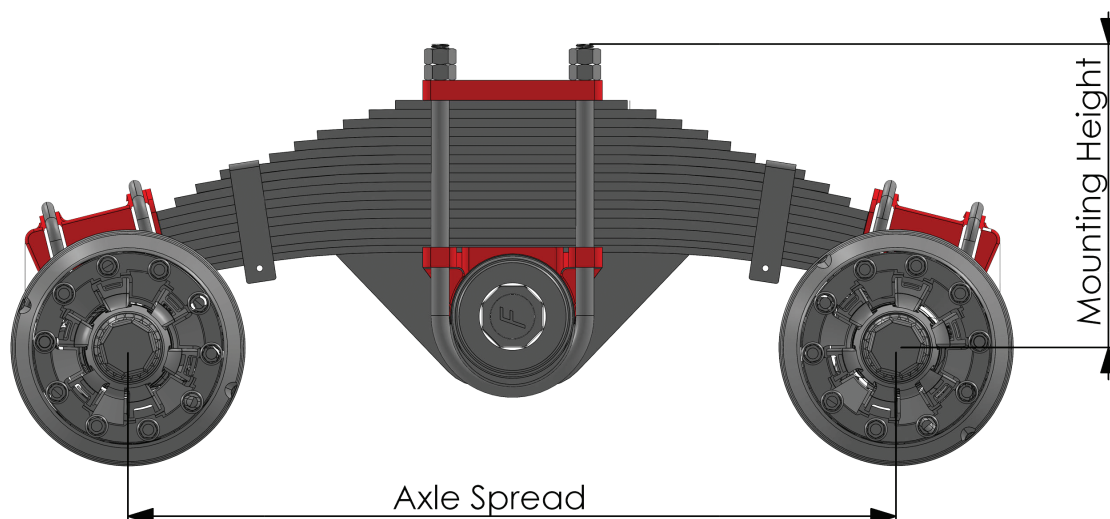




Cantilever Suspension

Part No	Beam Type	Capacity* (105km/h)	Axle Spread	Clamping Style	Axle Track	Mounting Height
FW31-900/660W	□ 150mm	36,000kg	1550mm	Overslung	1840mm	660mm
FW31-900/660	□ 150mm	40,000kg	1550mm	Overslung	1850mm	660mm

* Capacity calculated per unit and varies subject to speed.



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Air Suspension & Axle Set

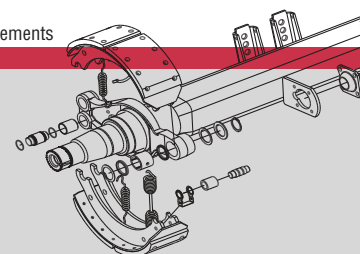
As per customer specifications, we can provide a full engineering design study on an Air Suspension solution complete with detailed drawings for approval, enabling us to provide a fully assembled Axle and Suspension set.

The approved Suspension set will be delivered fully assembled as per requested chassis centres and ride height. Granning Axles and Suspensions also provide the Air Suspension set with Brake Chambers and Slack Adjusters fitted and tested to meet brake calculation requirements. Once delivered, our customers need only weld the suspension hangers and pedestals to their chassis and finish by bolting the airbag in place thus providing savings in production times and reducing labour costs.

For further information on this service, please refer to our Request Form Section (pages 100-107), visit our website or simply contact our Engineering Department.

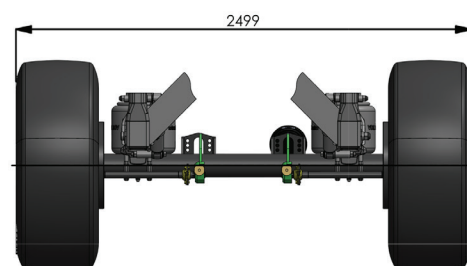
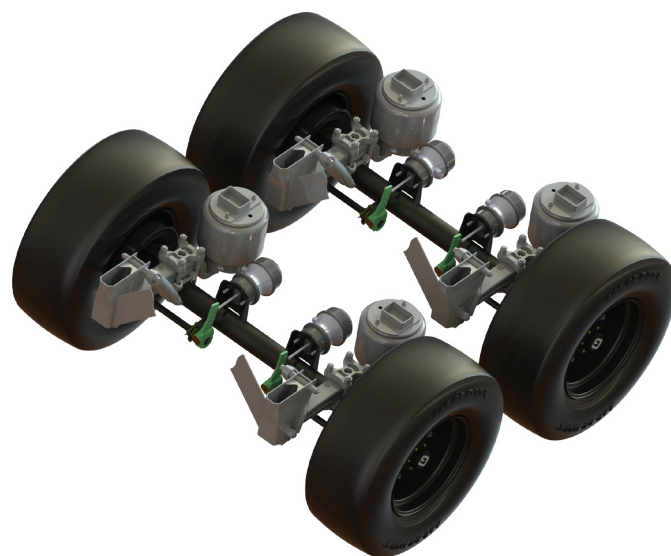
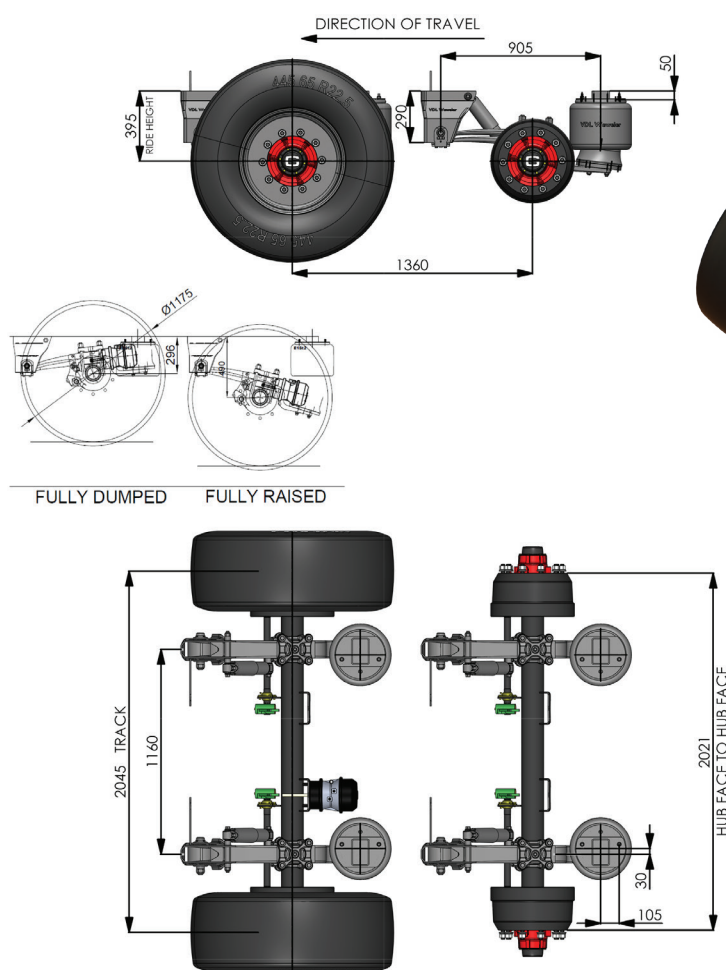
Additionally, a member of our team is always available to take your call.

This is a sample table from our range, other specifications are available or can be manufactured. Please contact us if the above does not meet with your requirements
www.granningaxles.ie



Axle & Suspension Set Case Study

- Air Suspension 31833, 13 Tonne
Ride Height range 365mm-405mm
30mm Offset, 50mm Pedestal, Ø350mm Airbag
Available on 150mm clamp group.
610mm camshaft, metric single M22 Wheel Nut, 10 studs
- Set supplied with Type 24/30 Brake Chambers
- Automatic Slack Adjusters
- Axle seat welded to beam and clamp group torqued up
- Tyres Shown 445/65 R22.5



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Ireland

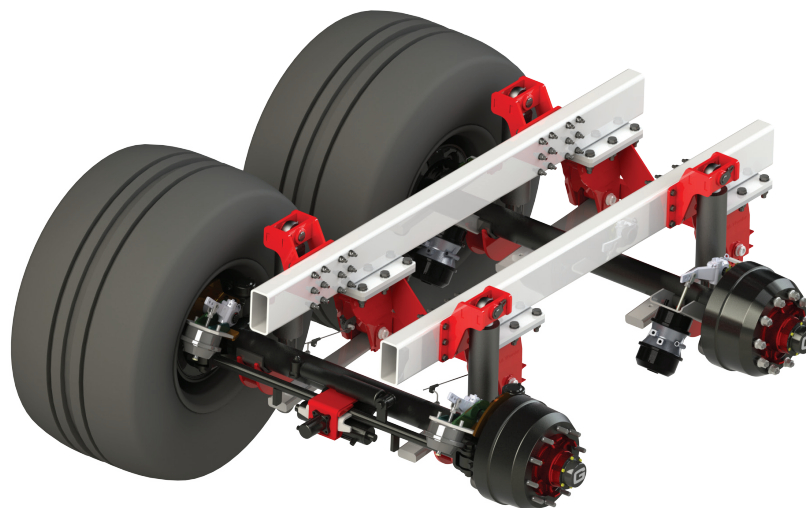
T. +353 (0) 45 897 553
F. +353 (0) 45 848 638

UK

T. +44 (0) 1925 817 689
F. +44 (0) 1925 817 153

NI

T. +44 (0) 2890 740 055
F. +44 (0) 2890 752 718



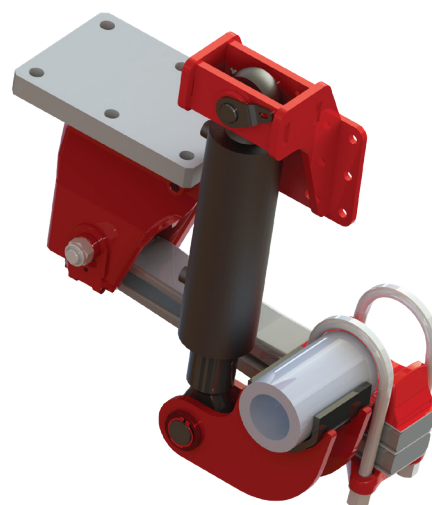
GH Series

Capacity	Suspension travel (min to max)	Ride Height range available	Axle Beam compatible	Axle Type compatibility	Suspension Features
12000kg per axle	300mm	240mm – 440mm	Ø 127mm	Fixed	Dual Acting Rams for Axle Lift (if required)
			□ 120mm	Self-Steer	Dual Acting Rams allow cross piping for added stability
			□ 150mm	Command Steer Axles	Large travel operation for uneven surfaces

Hydro-Pneumatic Suspension can be supplied with a control system to allow the suspension setup to maintain a constant ride height regardless of the vehicle load. This setup is advantageous to vehicle applications that require a constant working ride height. Hydraulic suspension is very advantageous to the constantly changing loads on agricultural machinery during operation. This suspension setup also provides a more stable and consistent centre of gravity thus improving control of the vehicle at a range of speeds and cornering.

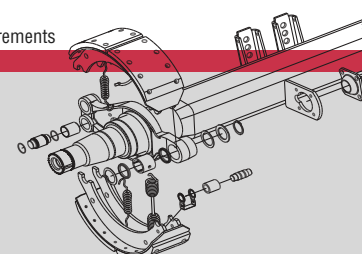
Using dual acting rams in this suspension setup allows for future expansion with developing controls systems capable of “slope control” during off-road operations. This will actively keep the load/trailer body in a vertical position when operating on uneven ground to improve safety and further reduce the risk of vehicle rolling.

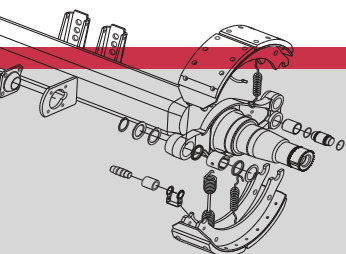
The Dual Acting Ram allows an axle to be lifted when the trailer is unladen, this helps in the reduction of tyre wear.

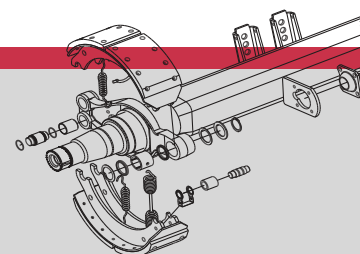


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Our Offices

Ireland

Tel +353 (0) 45 897 553

Fax +353 (0) 45 848 638

UK

Tel +44 (0) 1925 817 689

Fax +44 (0) 1925 817 153

NI

Tel +44 (0) 2890 740 055

Fax +44 (0) 2890 752 718

sales@granningaxles.ie