



Moving Innovation

GENERAL CATALOGUE

USA EDITION 2026



ADR
group

The Axle Company since 1954



Moving Innovation

ADRgroup



www.adraxles.com

The Axle Company since 1954



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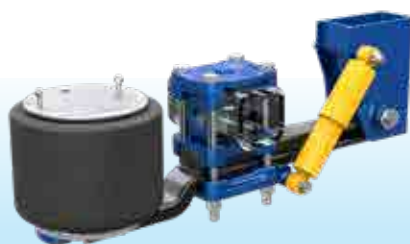
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THE NEW FACILITY



ADR AXLES USA Inc. is the United States division of the **ADR Group**, a global leader in the production of **axles, suspension systems, braking systems, and components for agricultural and industrial machinery**. With over 70 years of experience, the Group operates in more than 50 countries through 15 operational subsidiaries, standing out for its innovation, product quality, and technical customer support.

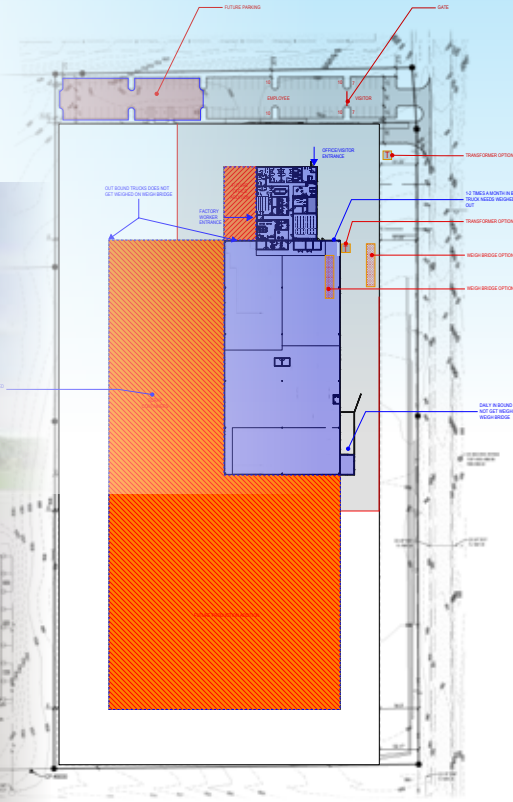
Founded in the 1950s in Italy, ADR started as a small mechanical workshop specializing in the production of wheels and axles. Thanks to continuous growth and the adoption of advanced technologies, the company has become an international reference in the agricultural components sector, ADR AXLES USA Inc. represents the Group's strategic presence in the North American market, based in **Perry, Iowa**, ensuring direct support for customers in the United States and Canada. The American subsidiary enables shorter delivery times, efficient after-sales support, and immediate contact with agricultural machinery manufacturers, distributors, and industry operators.

ADR's product range includes fixed and steering axles, mechanical, hydraulic, and pneumatic suspensions, steering systems, and customized solutions, offering reliable, high-performing, and easy-to-maintain components. The ability to provide tailored solutions allows customers to meet specific needs by combining innovation and practicality.

ADR Worldwide Presence



The new 6 000 m² facility in Perry includes production, warehousing, logistics, and technical support and further strengthens ADR's presence in the United States and demonstrates the Group's commitment to the North American market.



ADR's business model is based on close integration between research and development, in-house production, and a global distribution network, ensuring full support throughout the product lifecycle, from design to delivery and after-sales service. This strategy has enabled the company to establish strong partnerships with numerous OEMs in the agricultural sector and continue expanding its international presence.

In summary, ADR AXLES USA Inc. represents the direct extension of ADR Group's expertise, quality, and innovation. The company is committed to providing reliable and high-performance solutions, contributing to the efficiency and productivity of agricultural machinery in North America. The combination of historical experience, advanced technology, and customer proximity makes ADR AXLES USA Inc. a reference partner for those seeking high-quality components for agriculture and the industrial sector.



RESEARCH, DEVELOPMENT AND VALIDATION

Through close collaboration with leading international universities, ongoing engagement with regulatory bodies, and partnerships with major global vehicle manufacturers, the ADR Group R&D Center continuously develops, validates, and refines advanced engineering solutions.

This integrated approach enables the design and development of innovative products that have established ADR as a recognized supplier of axle, braking, and suspension systems for demanding off-highway and heavy-duty applications. Numerous international patents reflect the company's commitment to technological innovation and engineering excellence, proudly developed and manufactured in Italy.

Comprehensive testing programs, simulation of extreme operating conditions, and rigorous control of materials and component quality are fundamental to ensuring the reliability, durability, and performance customers expect from ADR products.



At the heart of this commitment is the ADR Testing Laboratory. Equipped with state-of-the-art technologies and staffed by highly qualified engineers and technicians, the laboratory enables detailed analysis, validation, and verification of complete systems and components. Every critical performance parameter is carefully monitored to ensure compliance with the highest quality and performance standards.



CUSTOMIZATION

Tailor-Made Engineering Approach

Our customization capability is driven by strong engineering expertise and represents a core element of our business model. At ADR Group, every axle, suspension, and braking system is designed and manufactured to meet specific customer requirements, following an application-driven, tailor-made engineering approach.

Safety and Application Support

We operate in global markets, providing flexible engineering solutions tailored to meet specific application requirements. We support our customers throughout the entire development process, from initial concept definition through to validation and final approval.



APPROVALS

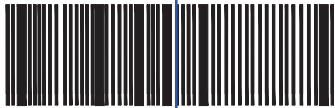
ADR braking axles are approved according to current international regulations: ECE-R13 for road vehicles and EU-2015/68 for agricultural machinery. We also offer a wide range of type approvals to facilitate the customer in the approval process for the complete trailer.

Having approved axles allows manufacturers to confidently determine, from the early stages of the project, the compatibility of the undercarriage with the characteristics of their vehicle and to create a product harmonized with current regulations for circulation in industrialized countries. This achieves the dual objective of standardizing the product and expanding their commercial horizons.



American products section

HOW TO READ THE IDENTIFICATION PLATE

ADR CODE		CUSTOMER CODE		PRODUCTION LOT	
SI4M1ZNF0000		ABC123FD		20261234/10 CB0001	
20mph		32Km/h		2015/68 ID1:NF ID2:356E ID3:4905 ID4:36104917	2015/68 ID1:NF ID2:356E ID3:4905 ID4:36105017
10000lbs		4536Kg			
J 001					
PRODUCTION SITE		CAPACITY (KG)		BRAKE TEST REPORT NO.	

HUBS & SPINDLES

Hubs & Spindles

ADR hubs and spindles are engineered to deliver high performance, reliability, and long service life, meeting the demanding requirements of OEMs and distributors worldwide.

These critical components ensure a secure connection between wheel and axle, providing stability and optimal performance even under heavy loads and in harsh working conditions typical of agricultural and transport applications.

Manufactured according to strict quality standards and OEM specifications, ADR hubs, and spindles guarantee:

- high load capacity and structural strength
- durability over time with reduced maintenance needs
- precision machining for perfect fit and easy assembly
- reliable performance in both agricultural and on-road applications

Designed to support a wide range of uses ADR solutions combine engineering expertise with manufacturing efficiency, ensuring consistent quality and operational reliability.



Load Ratings and Capacities

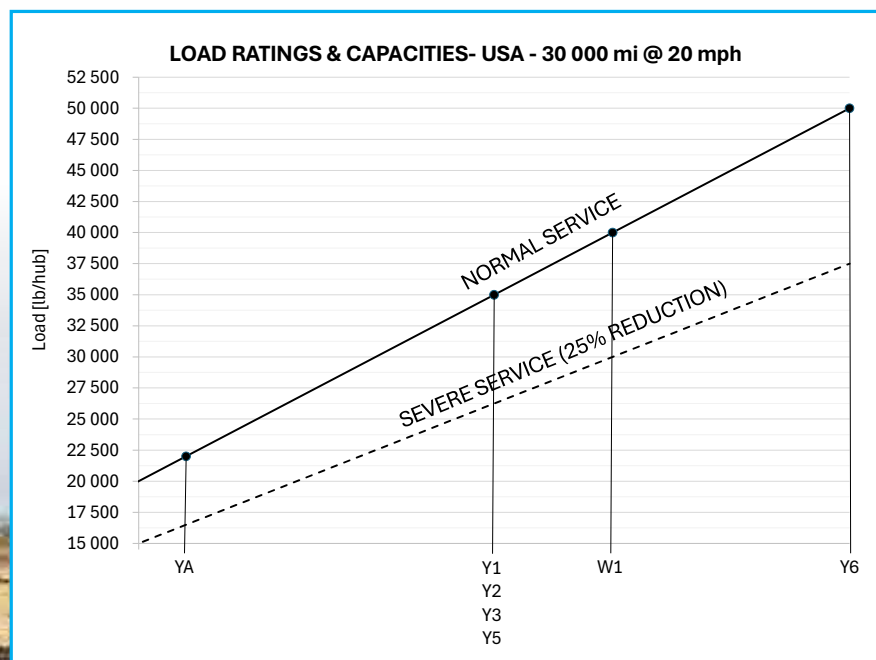
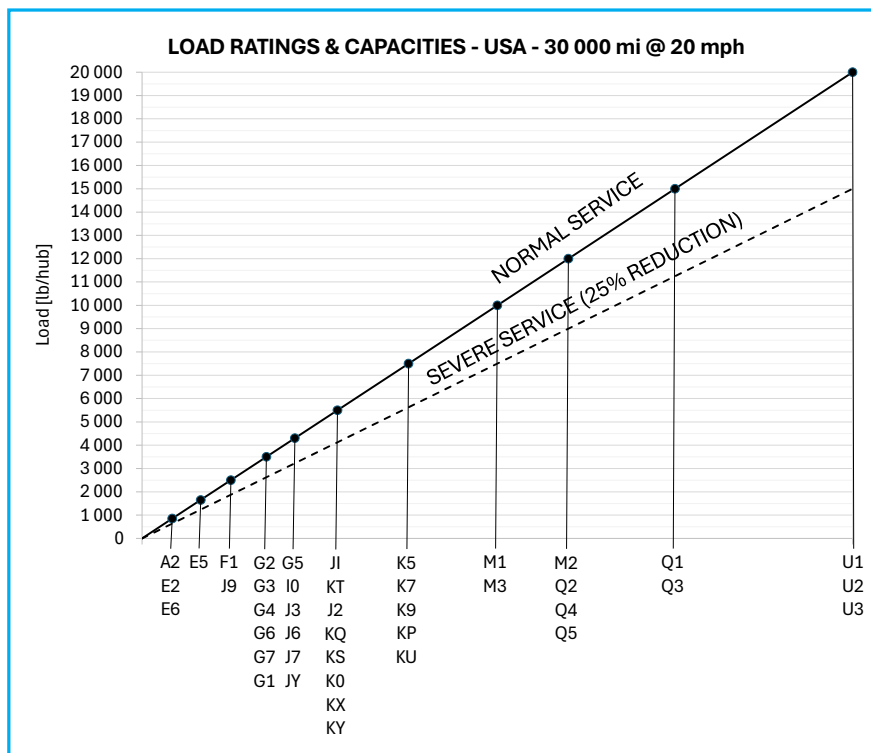
The hub load ratings presented in this catalog are based on a B10 bearing fatigue life of 30,000 miles, with typical tractor operating speeds of up to 20 MPH.

The use of these components in conditions other than free-rolling applications - such as drive wheels, tandem axle configurations, hillside operations, or operation on rough and uneven terrain - will result in reduced rated capacities. The values provided assume standard tire inflation pressures and do not represent the load capacity of the tires themselves.

Operating conditions

- Normal service
- Severe service (approx. 25% reduction)

Actual performance may vary from the stated values depending on real operating conditions. It is therefore the manufacturer's responsibility to conduct testing under the most severe conditions to ensure proper component selection. The service application chart provides a general indication of capacity reduction for different hub configurations under severe operating conditions.



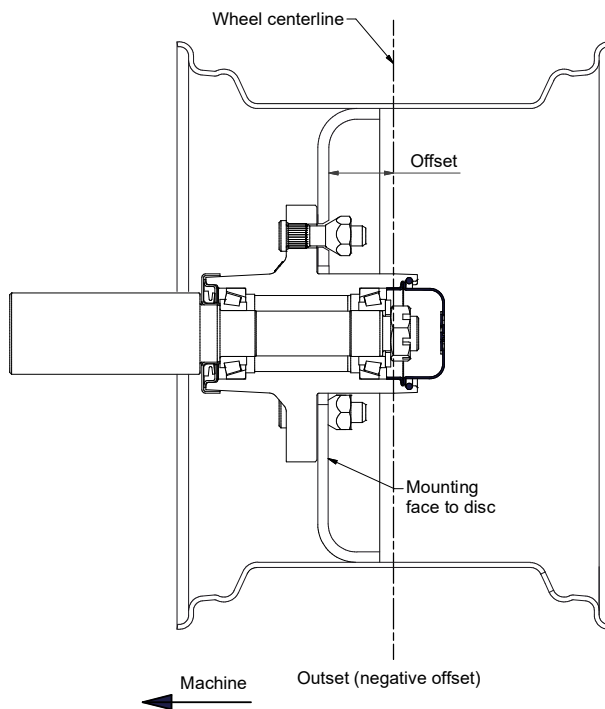
STUBAXLES

What is an offset?

The difference between the rim centerline and the vertical mounting face on the disc.

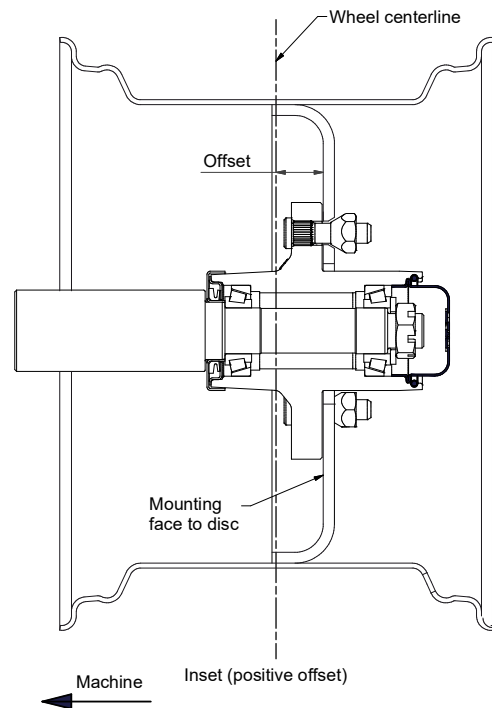
Negative offset

Negative offset is the distance between the mounting face of the disc and the rim centerline. The distance is termed negative when the mounting face is **in-board** of the rim centerline.



Positive offset

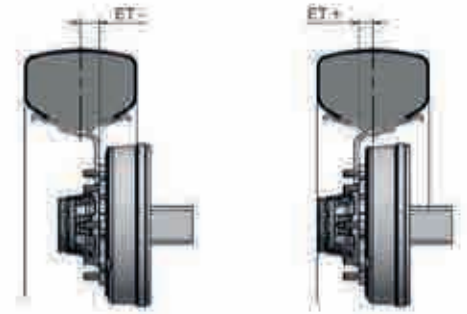
Positive offset is the distance between the mounting face of the disc and the rim centerline. The distance is termed positive when the mounting face is located **out-board** of the rim centerline.





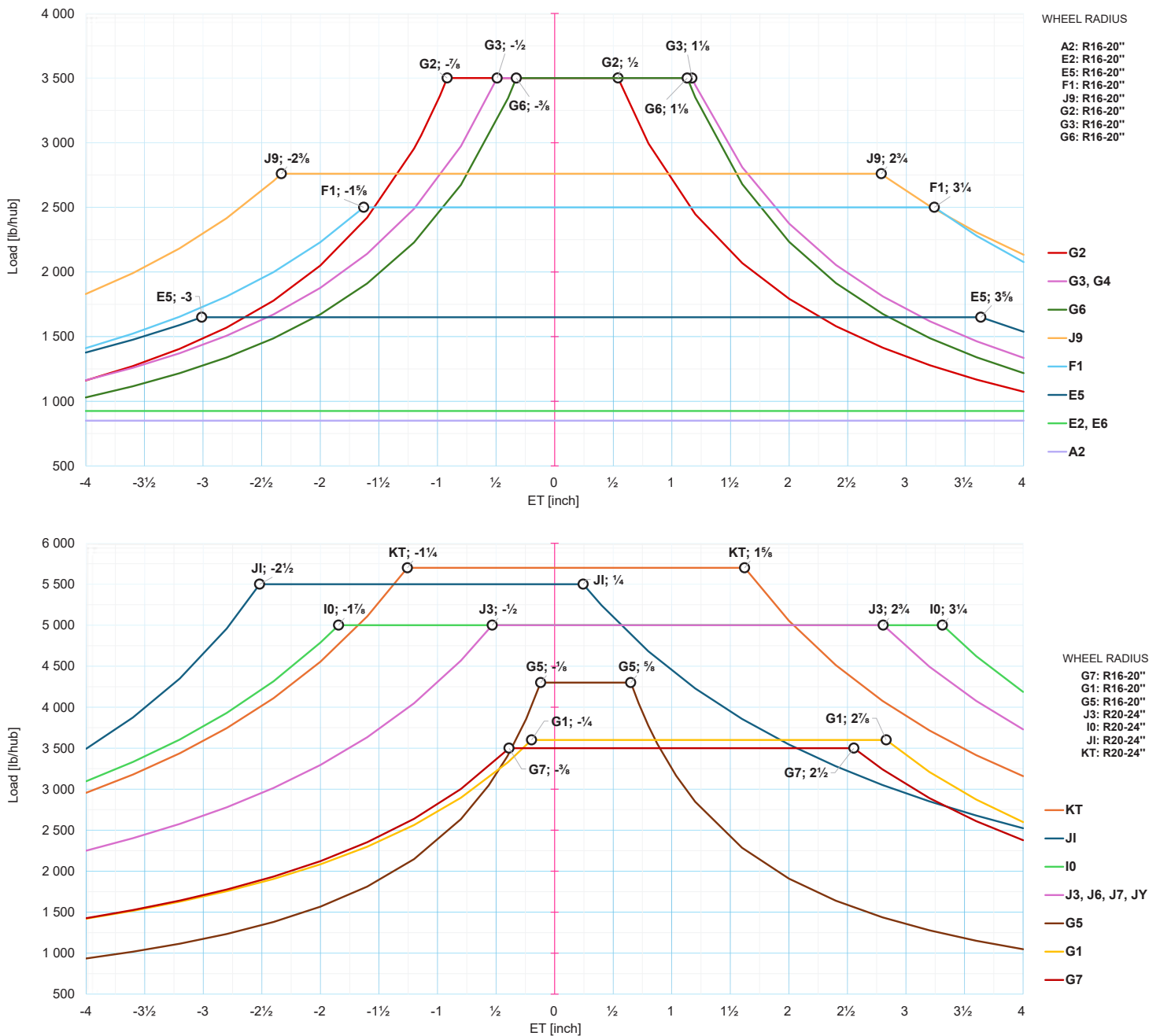
Max. AXLE LOAD CURVE WITH WHEEL FLANGE OFFSET (IN/OUTSET)

The diagrams provided below are based on a reference standard trailer configuration under normal operating conditions at 20 MPH.
For severe-duty applications (see page 10 for severe application definition). please contact ADR.
For any wheel configuration with offset. ADR USA shall be consulted to define the corresponding axle load reduction, considering the specific inset/outset. application conditions. and the selected hub unit



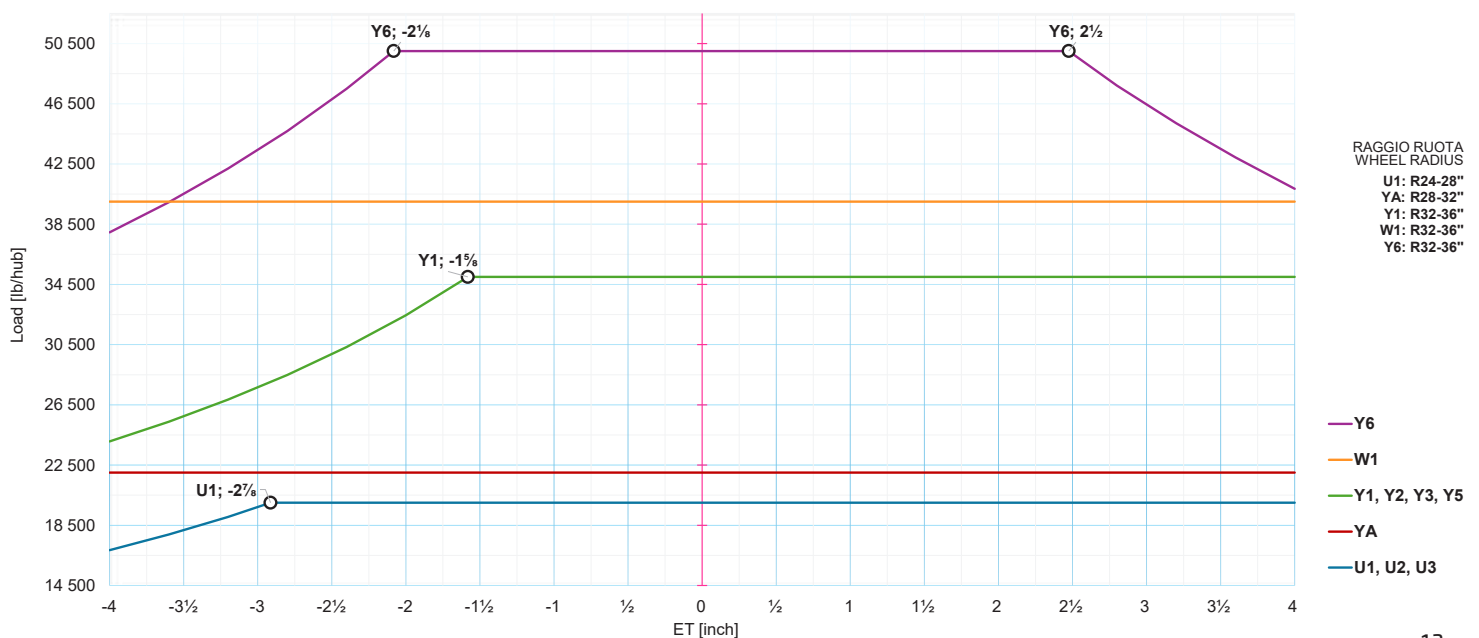
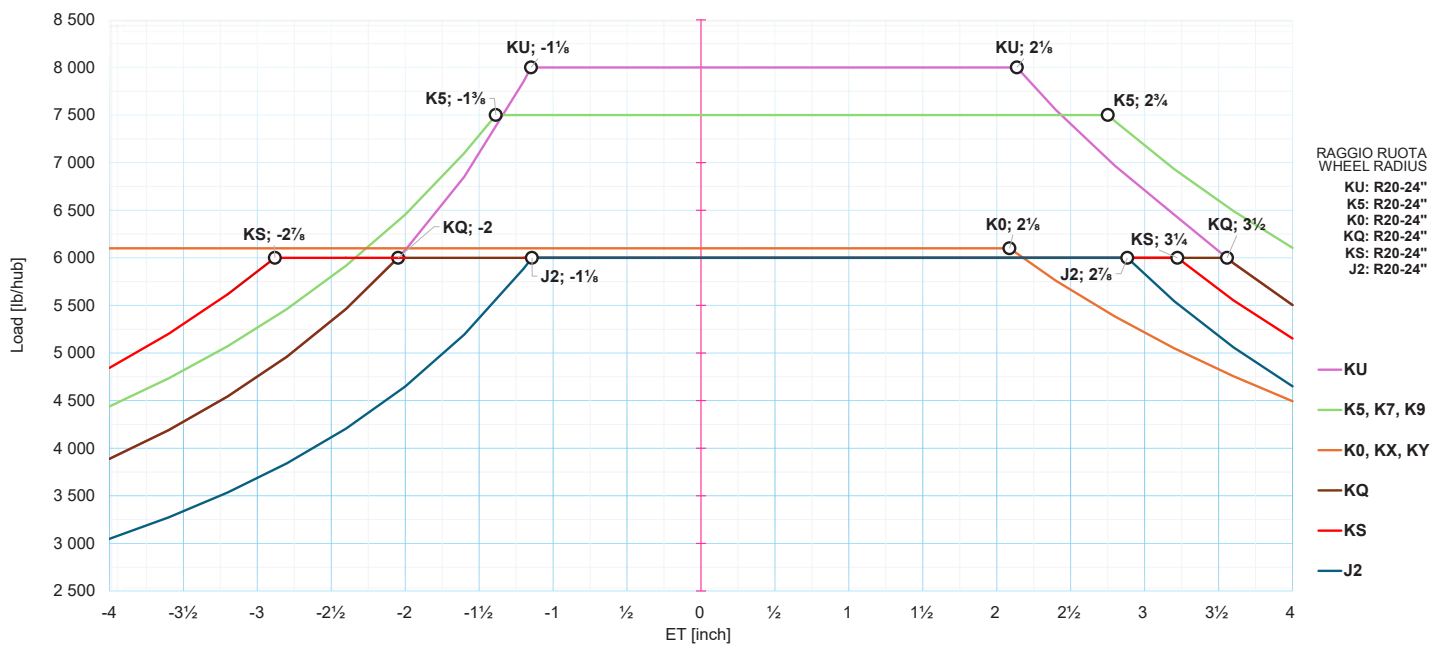
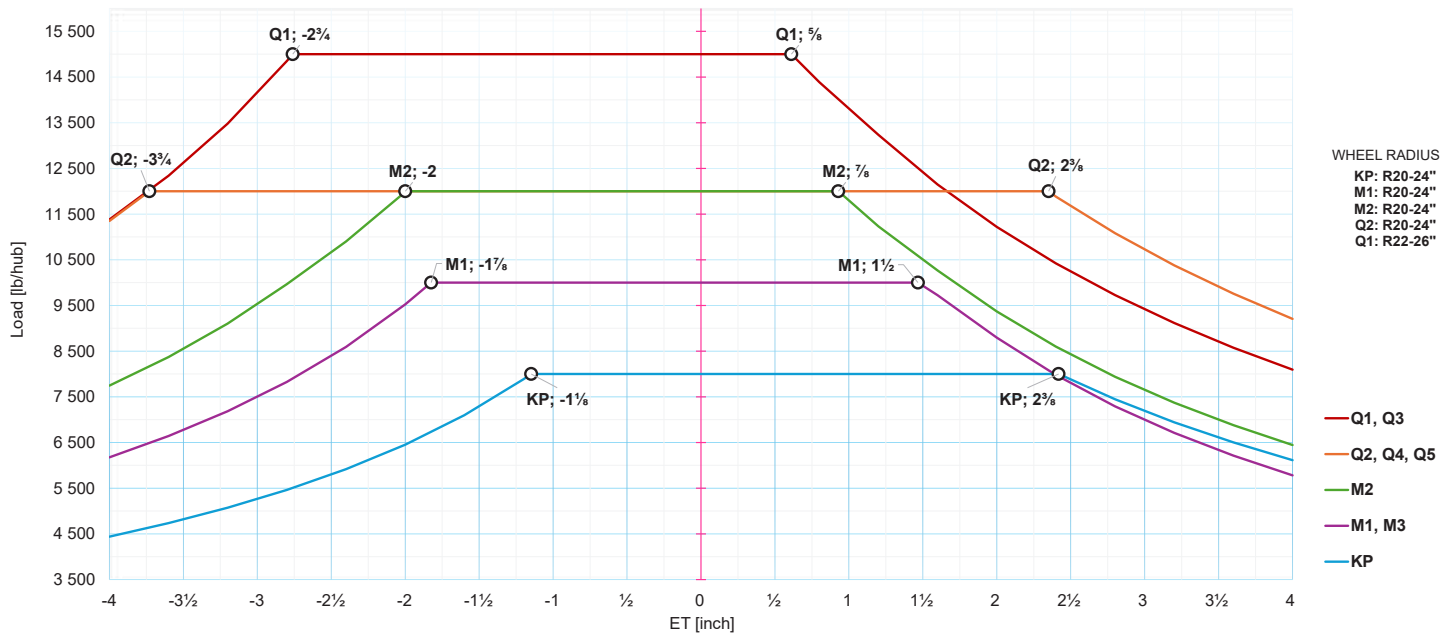
MAX LOAD CAPACITY
AT SPEED LIMIT **20 mph** (32 kmh)

- * Diagrams shown is for visualisation purposes only
- * Contact ADR USA for applications with flange with offset wheels
- * See "USERS' GUIDE"





STUBAXLES

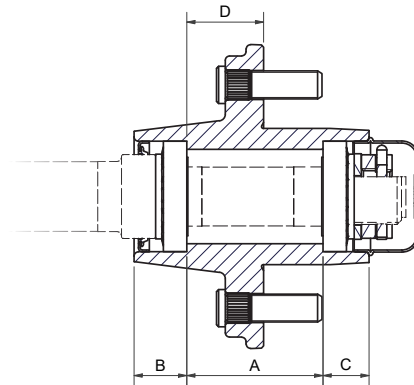




KIT HUBS



E2

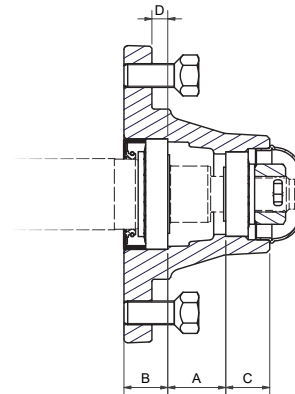


4 bolt / 4" bolt circle / 2.441" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
E2	925	KL-44610 59944610	KL-44610 59944610	KL-44649 59844649	1.0625	KL-44649 59844649	1.0625	56105001	572Z123	-	-	5490903	2.441	0.945	0.872	1.378

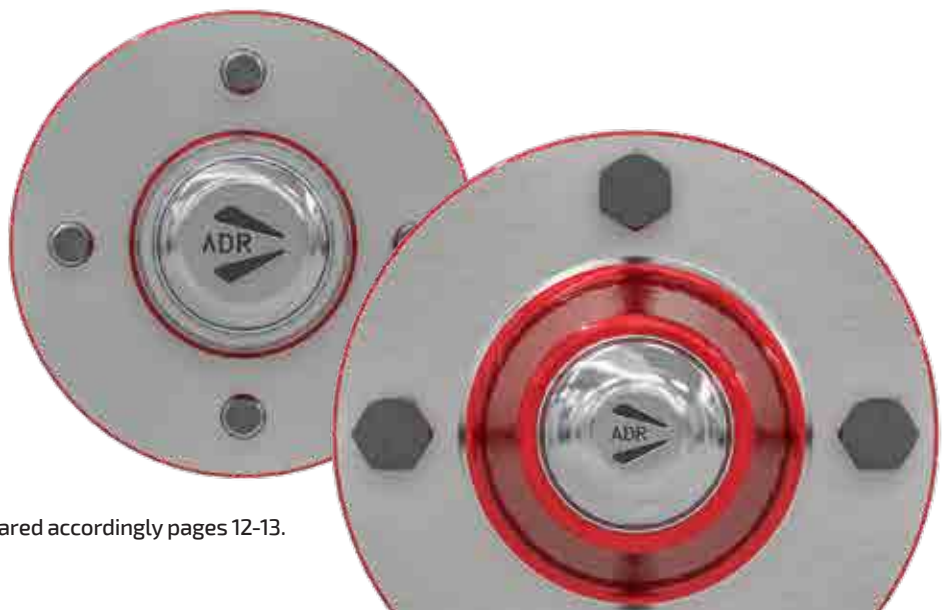


A2



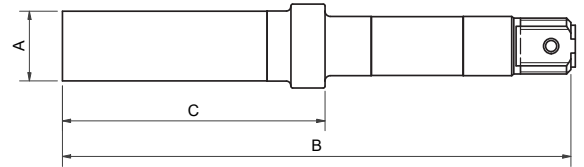
4 bolt / 5" bolt circle / 3.583" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
A2	850	LM-67010 59967010	LM-11910 59911910	LM-67048 59867048	1.25	LM-11949 59811949	0.75	56104901	572Z121	-	573Z123	5490591	1.22	0.925	0.925	0.335



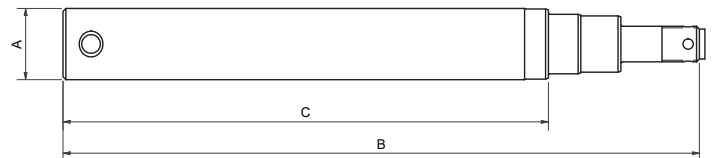
4 BOLT

STUBAXLES



4 bolt / 4" bolt circle / 2.441" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
S38E2Z00...	E2	STRAIGHT	42CrMoA	1.25	14	8.98	57B2601	575Z102	58101	9.114	1-14 UNS	1.502



4 bolt / 5" bolt circle / 3.583" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
S38A2Z00...	A2	STRAIGHT	42CrMoA	1.5	14	10.319	10.319	575Z341	58111	13.406	3/4-16 UNF	1.476



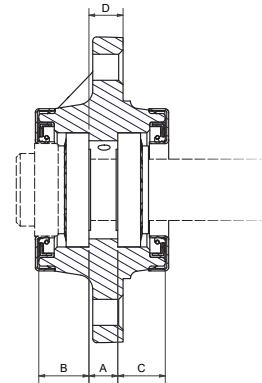
The capacity indicated in the table must be compared accordingly pages 12-13.



KIT HUBS

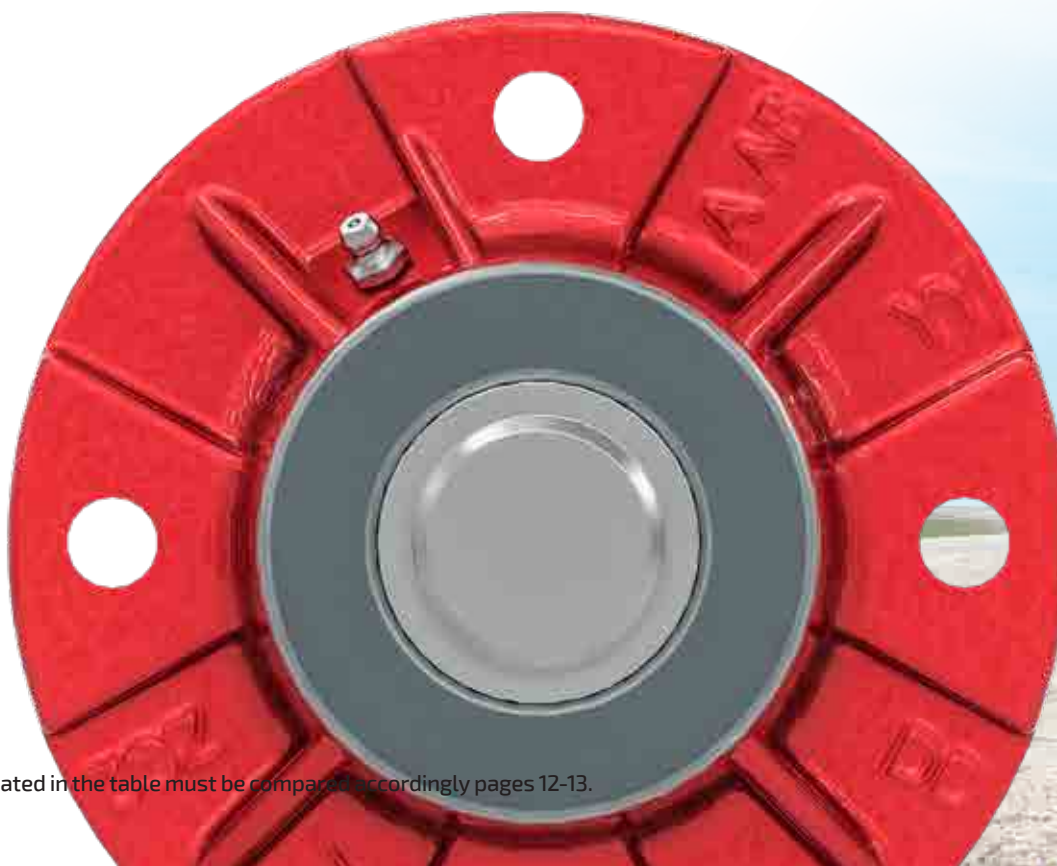


G2



4 bolt / 5" bolt circle / 3.62" pilot

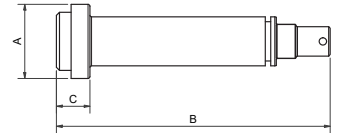
HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
G2	3500	LM-67010 59967010	LM-67010 59967010	LM-67048 59867048	1.25	LM-67048 59867048	1.25	-	-	-	-	5490661 5490483	0.59	1.021	0.967	0.107
G3	3500	LM-67010 59967010	LM-67010 59967010	LM-67048 59867048	1.25	LM-67048 59867048	1.25	56106220	961Z120251	-	-	5490542 5490541 54G0541	0.815	1	0.831	0.748
G4	3500	LM-67010 59967010	LM-67010 59967010	LM-67048 59867048	1.25	LM-67048 59867048	1.25	56106220	572Z125	-	-	5490593 5490592 54G0591	0.815	1	0.831	0.748
G5	4300	LM-67010 59967010	LM-67010 59967010	LM-67048 59867048	1.25	LM-67048 59867048	1.25	56105901	-	-	-	5490627 5550401	0.374	0.984	0.925	0.453
G6	3500	LM-67010 59967010	LM-67010 59967010	LM-67048 59867048	1.25	LM-67048 59867048	1.25	-	-	-	-	5490661 5490484	0.59	1.021	0.967	0.107





4 BOLT

STUBAXLES



4 bolt / 5" bolt circle / 3.62" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
S47G2Z00...	G2	STRAIGHT	42CrMoA	1.89	7	0.875	-	-	-	6.98	3/4-16 UNF	1.89
S41G3Z00...	G3	STRAIGHT	42CrMoA	1.622	6.654	2.992	9812406	575Z781	58106	6.654	7/8-14 UNF	1.496
S45G4Z00...	G4	STRAIGHT	42CrMoA	1.75	6.638	2.976	9812406	575Z781	58106	6.638	7/8-14 UNF	1.685
S47G5Z00...	G5	STRAIGHT	42CrMoA	1.89	5.242	1.069	9812002	575Z341	58101	5.242	3/4-16 UNF	1.575
S47G6Z00...	G6	STRAIGHT	42CrMoA	1.89	6.9	0.776	-	-	-	6.98	3/4-16 UNF	1.89



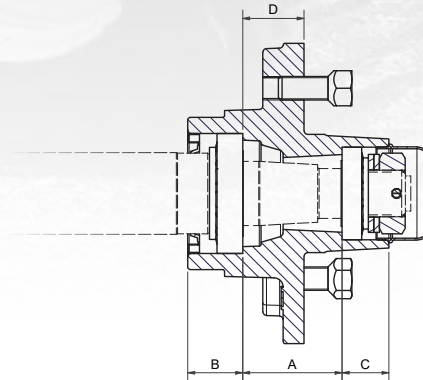
The capacity indicated in the table must be compared accordingly pages 12-13.



KIT HUBS



F1

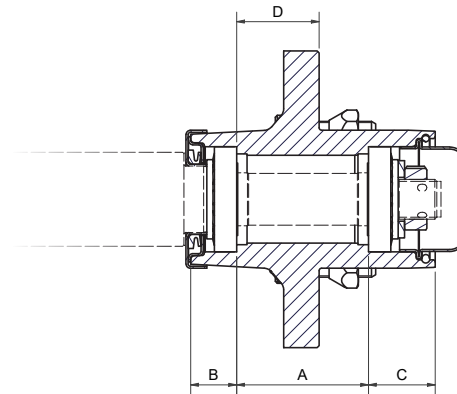


5 bolt / 4.50" bolt circle / 2.525" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
F1	2500	LM48510 59948510	L44610 59944610	LM48548 59848548	1.375	L44649 59844649	1.062	56105001	572Z121	-	-	5490656	2.125	1.175	1	0.882

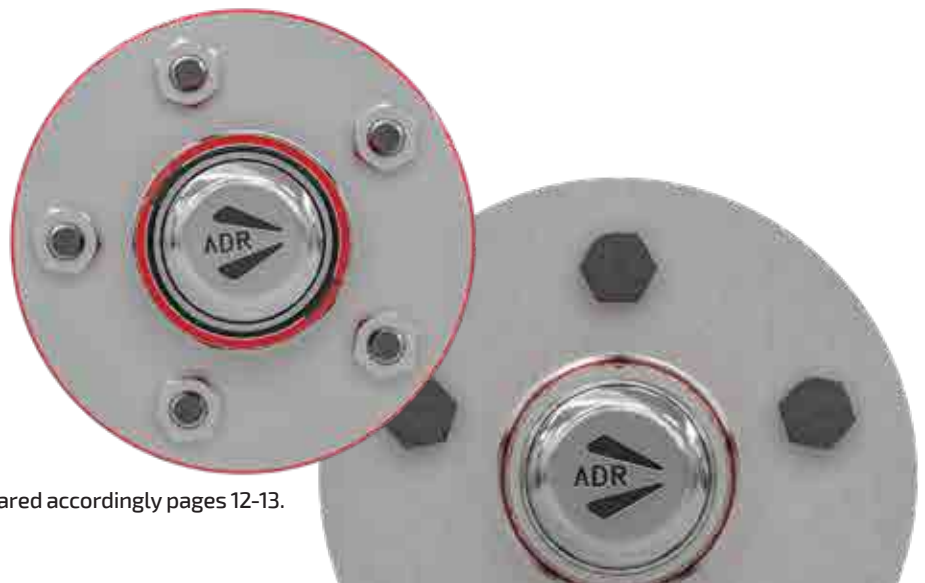


E5



5 bolt / 4.50" bolt circle / 2.598" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
E5	1650	L-44610 59944610	L-44643 59844643	L-44643 59844643	1	L-44610 59944610	1	56105002	572Z761	-	573Z762	5490494 5490491 54G0491	2.484	0.866	1.256	1.555

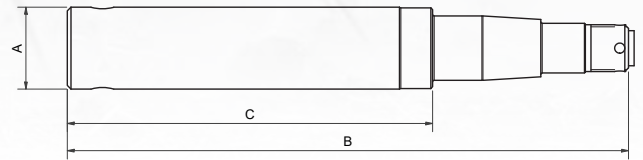
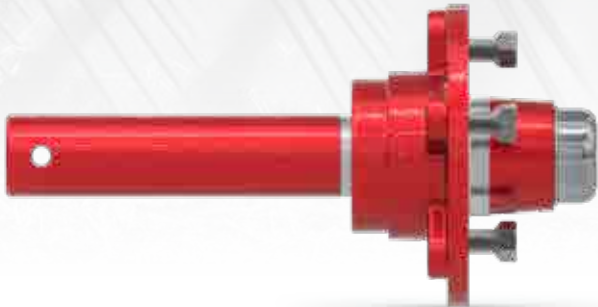


The capacity indicated in the table must be compared accordingly pages 12-13.



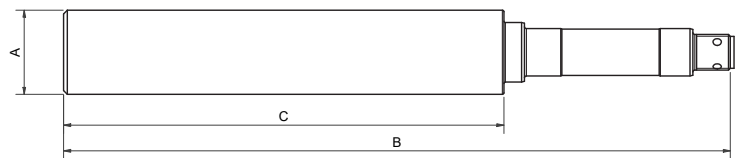
5 BOLT

STUBAXLES



5 bolt / 4.50" bolt circle / 2.525" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZF1Z00...	F1	STRAIGHT	42CrMoA	1.75	7	2.102	9812605	575Z102	58101	12	1-14 UNS	1.502



5 bolt / 4.50" bolt circle / 2.598" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
S46E5Z00...	E5	STRAIGHT	42CrMoA	1.772	7	2.669	9812002	575Z342	58104	14.028	3/4-16 UNF	1.25



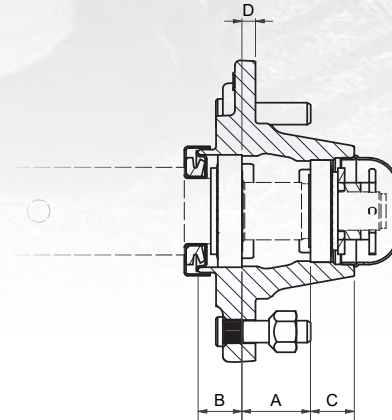
The capacity indicated in the table must be compared accordingly pages 12-13.



KIT HUBS



J9



5 bolt / 5.50" bolt circle / 4" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
J9	2760	LM-48510 59948510	LM-67010 59967010	LM-48548 59848548	1.375	LM-67084 59867084	1.25	56106216	572Z126	-	573Z123	5490623 5490622 54G0621	1.563	1	1	0.31
KT	5700	LM501310 599501310	LM501310 599501310	LM501349 598501349	1.625	LM501349 598501349	1.625	56107301	-	-	-	5490752 5550531	1.75	1.087	1.021	1.058

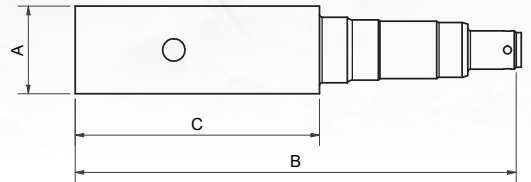
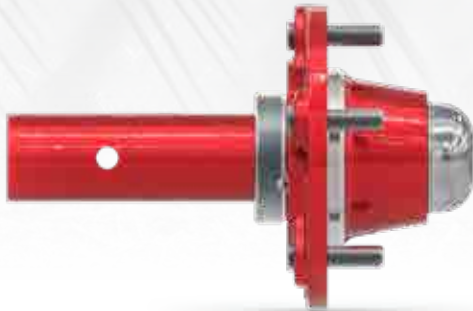


The capacity indicated in the table must be compared accordingly pages 12-13.



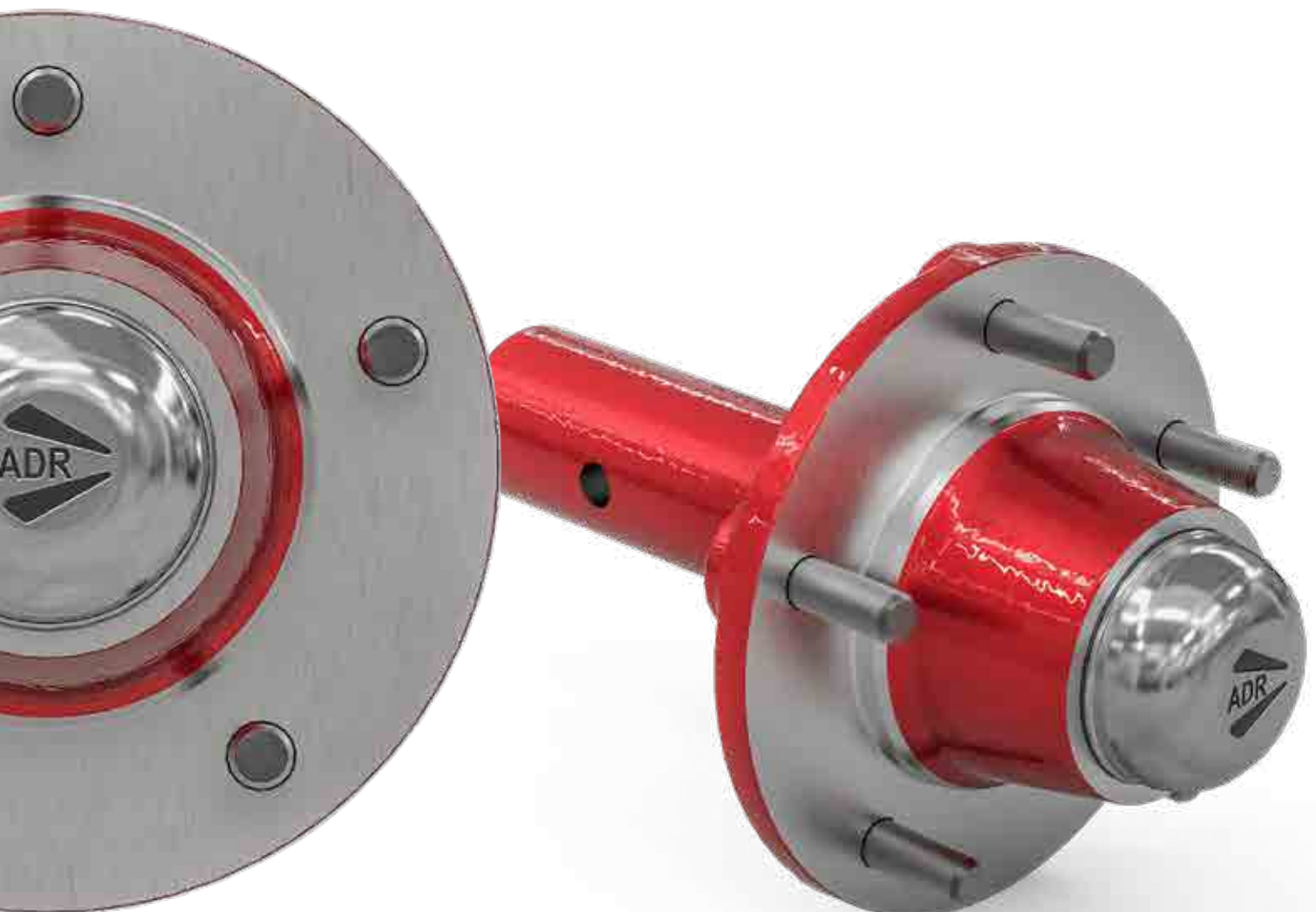
5 BOLT

STUBAXLES



5 bolt / 5.50" bolt circle / 4" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZJ9Z00...	J9	STRAIGHT	42CrMoA	1.772	7	2.512	9812406	575Z781	56106	10.362	7/8-14 UNF	1.496
SZZKTZ00...	KT	STRAIGHT	42CrMoA	2.5	7	2.346	9812606	575Z102	58101	7.419	1-14 UNS	2.087

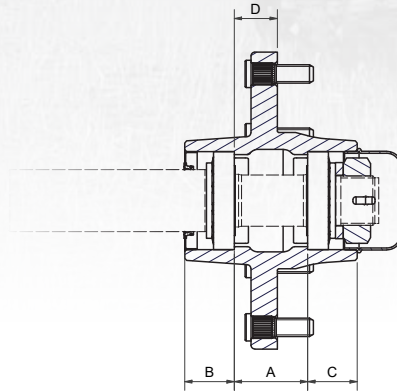


The capacity indicated in the table must be compared accordingly pages 12-13.

KIT HUBS



E6

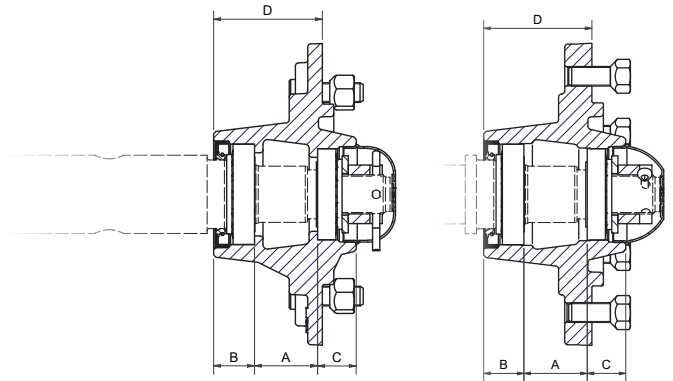


6 bolt / 2.75" bolt circle / 5.118" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
E6	925	59944610	59944610	59844649	1.063	59844649	1.063	56105001	572Z382	-	-	5490321	1.484	1	1	0.87



G1

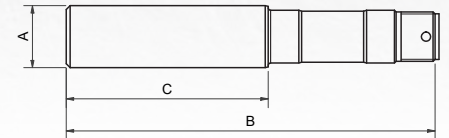
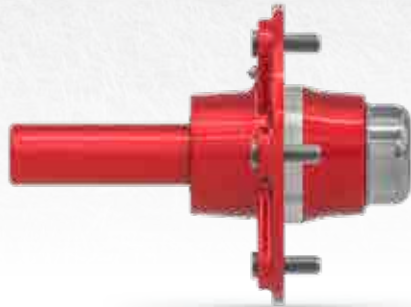


6 bolt / 6" bolt circle / 4.6" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
G1	3600	67010 59967010	29710 59929710	67048 59867048	1.5	29749 59829749	1.25	56106220	572Z121	-	573Z125	5490691	1.614	1.024	0.984	1.732
J3	5000	LM-603011 59948510	LM-48510 59948510	LM-603049 59848548	1.781	LM-48548 59848548	1.375	56106901	572Z963	-	-	5490481	1.75	1.37	1.37	1.614
J6	5000	LM-603011 59948510	LM-48510 59948510	LM-603049 59848548	1.781	LM-48548 59848548	1.375	56106901	572Z963	-	-	5470921	1.75	1.37	1.37	1.614
J7	5000	LM-603011 59948510	LM-48510 59948510	LM-603049 59848548	1.781	LM-48548 59848548	1.375	56106901	572Z963	-	-	5490493	1.75	1.37	1.37	1.614
I0	5000	5993420	5992520	5983490	1.5	5982580	1.25	56207207	572Z126	-	-	5470811	1	1.442	1.614	0.844
JY	5000	599603011	59948510	598603049	1.781	59848548	1.375	56106501	572Z963	-	-	5490495	1.75	1.37	1.37	1.614
J2	6000	25520 59948510	LM-48510 59948510	25580 59825580	1.75	LM-48548 59848548	1.375	56106901	572Z963	-	-	5490902	2.551	1.516	1.051	1.122

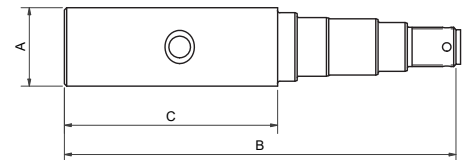
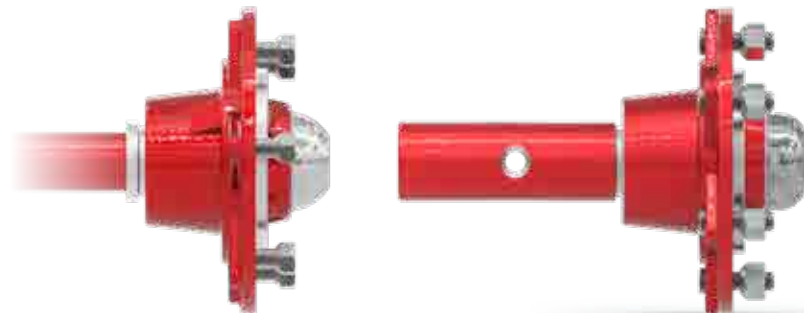
6 BOLT

STUBAXLES



6 bolt / 2.75" bolt circle / 5.118" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
S32E6Z00...	E6	STRAIGHT	42CrMoA	1.252	7.5	4	9812601	575Z102	58106	8	1-14 UNS	1.25



6 bolt / 6" bolt circle / 4.6" pilot

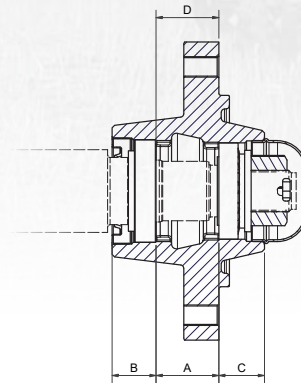
PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZG1Z00...	G1	STRAIGHT	42CrMoA	2	10	5.445	9812604	575Z101	58111	10.354	1-14 UNS	1.75
S63J3Z00...	J3	STRAIGHT	42CrMoA	2.48	7	1.803	9812604	575Z101	58111	12.067	1-14 UNS	2
S51J6Z00...	J6	STRAIGHT	42CrMoA	2	16	10.724	9812604	575Z101	58111	15.9	1-14 UNS	1.85
S51J7Z00...	J7	STRAIGHT	42CrMoA	2	16	10.862	9812604	575Z101	58111	16.01	1-14 UNS	1.969
S54I0Z00...	I0	STRAIGHT	42CrMoA	2.1	11.6	7.113	9812602	575Z104	58118	12.34	1-14 UNS	1.75
SZZJYZ00...	JY	STRAIGHT	42CrMoA	2	11.65	7.228	9812602	575Z101	58111	12.21	1-14 UNS	2
S63J2Z00...	J2	STRAIGHT	42CrMoA	2.5	12	5.87	9812604	575Z101	58111	11.755	1-14 UNS	2

The capacity indicated in the table must be compared accordingly pages 12-13.

KIT HUBS



G7

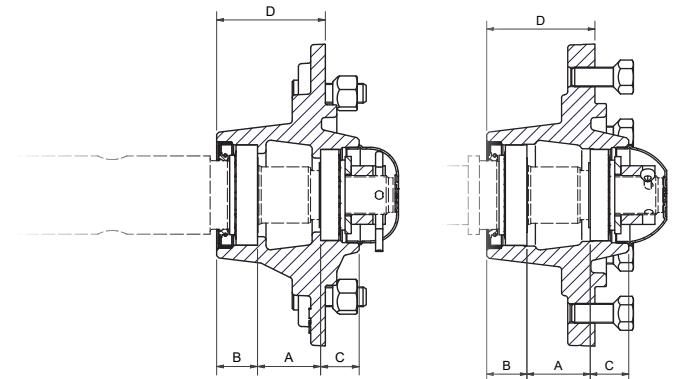


6 bolt / 6" bolt circle / 4.626" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
G7	3500	69310 59969310	67010 59967010	69349 59969343	1.496	67048 59867048	1.25	56106216	-	-	-	5490411	1.516	1.063	1.102	1.516
KS	6000	59925520	59925821	59825590	1.375	59825877	1.796	56107303	572Z962	-	-	5490902	2.551	1.516	1.051	1.122



G1

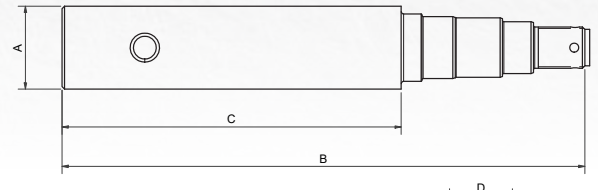


6 bolt / 6" bolt circle / 4.66" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
G1	3600	67010 59967010	29710 59929710	67048 59867048	1.5	29749 59829749	1.25	56106220	572Z121	-	-	5490691	1.614	1.024	0.984	1.732

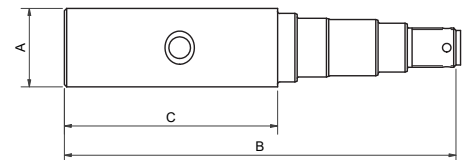
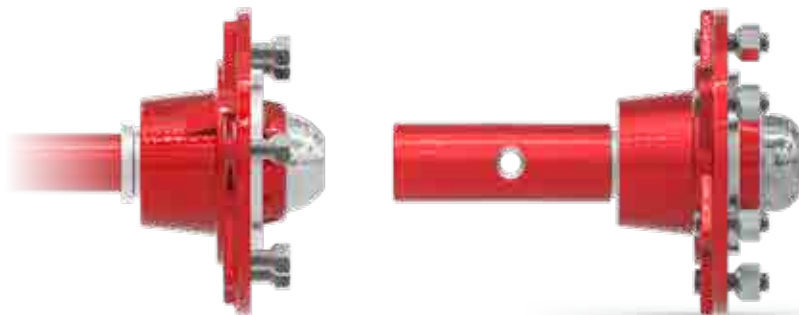
6 BOLT

STUBAXLES



6 bolt / 6" bolt circle / 4.626" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZG7Z00...	G7	STRAIGHT	42CrMoA	2	12.5	7.945	9812604	575Z101	58111	12.5	1-14UNS	1.625
SZZKSZ00...	KS	STRAIGHT	42CrMoA	2.1	12.5	6.5	9812604	575Z101	58111	12.9	1-14UNS	2



6 bolt / 6" bolt circle / 4.66" pilot

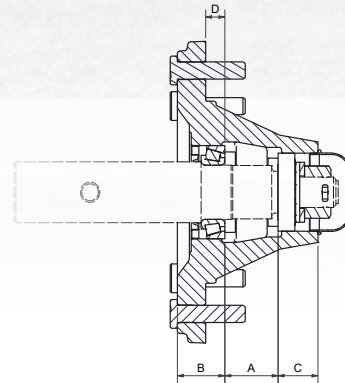
PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZG1Z00...	G1	STRAIGHT	42CrMoA	2	10	5.445	9812604	575Z101	58111	10.354	1-14 UNS	1.75



KIT HUBS



JI



8 bolt / 8" bolt circle / 5.98" pilot

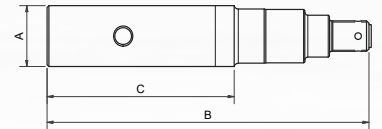
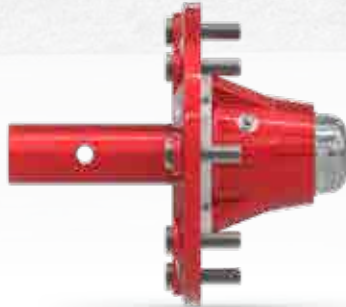
HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
JI	5500	LM-603011 599603011	LM-48510 59948510	LM-603049 598603049	1.781	LM-48548 59848548	1.375	56106501	572Z966	-	573Z963	5490495	1.75	1.56	1.31	0.63
K0	6100	3720 5993720	2720 5992720	3780 5983780	2	2790 5982790	1.312	56108020	572Z963	-	-	5490633	2.441	2.272	1.209	1.209
KX	6100	3720 5993720	2729 5992729	3767 5983767	2.06	2789 5982789	1.563	56108020	572Z964	-	573Z961	5490634	2.441	2.272	1.209	1.209
KY	6100	3720 5993720	2720 5992720	3780 5983780	2	2790 5982790	1.312	56108020	572Z963	-	-	5490634	2.441	2.272	1.209	1.209
K5	7500	382A 599382A	LM-501310 599501310	387AS 598387AS	2.25	LM-501349 598501349	1.625	56108015	572Z581	-	-	5471021	3.75	1.351	1.37	1.68
K7	7500	382A 599382A	LM-501310 599501310	387AS 598387AS	2.25	LM-501349 598501349	1.625	56108015	572Z581	-	-	5490621	3.75	1.351	1.37	1.68
K9	7500	382A 599382A	LM-501310 599501310	387AS 598387AS	2.25	LM-501349 598501349	1.625	56107901	572Z581	-	573Z581	5490761	3.75	1.351	1.37	1.68





8 BOLT

STUBAXLES



8 bolt / 8" bolt circle / 5.98" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZJIZ00...	J1	STRAIGHT	42CrMoA	2	16	11.07	9812604	575Z101	58111	10.578	1-14 UNS	2
S63K0Z00...	K0	STRAIGHT	42CrMoA	2.5	16	9.386	9812604	575Z101	58111	13.934	1-14 UNS	2.498
S63KXZ00...	KX	STRAIGHT	42CrMoA	2.5	16	9.386	9812604	575Z101	58111	15.492	1-14 UNS	2.5
SZZKYZ00...	KY	STRAIGHT	42CrMoA	2.5	16	9.386	9812604	575Z101	58111	23.522	1-14 UNS	2.498
S63K5Z00...	K5	STRAIGHT	42CrMoA	2.5	16	8.323	9813302	575Z1A1	58111	21.304	1 1/4-12UNF	2.323
S63K7Z00...	K7	STRAIGHT	42CrMoA	2.5	16	8.323	9813302	575Z1A1	58111	21.304	1 1/4-12UNF	2.48
SI3K9Z00...	K9	STRAIGHT	42CrMoA	3	16	9.25	9813302	575Z1A1	58111	16.5	1 1/4-12UNF	3



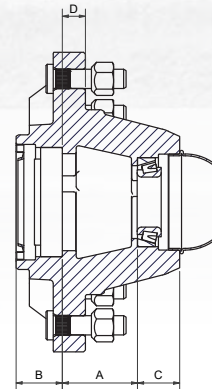
The capacity indicated in the table must be compared accordingly pages 12-13.



KIT HUBS



KQ



8 bolt / 8" bolt circle / 6" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
KQ	6000	506810 599506810	501310 599501310	506849 598506849	2.165	501349 598501349	1.625	56107901	572Z581	-	573Z581	5490701	2.44	1.5	1.37	0.75
KU	8000	506810 599506810	501310 599501310	506849 598506849	2.165	501349 598501349	1.625	56107901	572Z581	-	573Z581	5470611	2.625	1.5	1.375	0.75
KP	8000	382A 599382A	501310 599501310	387AS 598387AS	2.25	501349 598501349	1.625	56108020	572Z581	-	573Z581	5490763	3.77	1.358	1.37	1.7
M1	10000	28921 59928921	25520 59925520	28995 59828995	2.47	25581 59825581	1.75	56108501	572Z581	-	573Z581	5471003	2.638	1.535	1.378	0.787
M3	10000	59928921	59925520	59828995	2.47	59925581	1.75	56108503	572Z581	-	573Z581	5471006	2.638	1.535	1.378	0.787
M2	12000	59928921	59928921	59828995	2.47	59828995	2.47	56110803	572Z581	-	573Z581	5471003	2.61	1.5	1.5	0.77

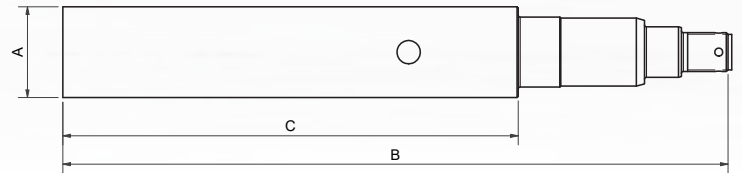


The capacity indicated in the table must be compared accordingly pages 12-13.



8 BOLT

STUBAXLES



8 bolt / 8" bolt circle / 6" pilot

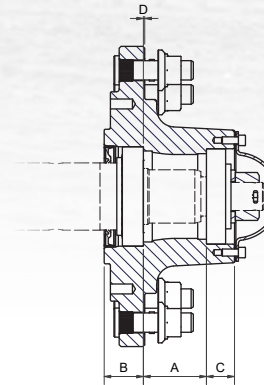
PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZKQZ00...	KQ	STRAIGHT	42CrMoA	2.75	14	8.43	9812402	575Z101	58111	14	1-14 UNS	2.75
SZZKUZ00...	KU	STRAIGHT	42CrMoA	2.75	16	9.879	9812402	575Z101	58111	16.5	1-14 UNS	2.402
SZZKPZ00...	KP	STRAIGHT	42CrMoA	3	16	8.659	9813302	575Z1A1	58111	16.173	1 1/4-12UNF	3
SZZM1Z00...	M1	STRAIGHT	42CrMoA	3.98	16	9.252	9813302	575Z1A1	58111	27.837	1 1/4-12UNF	2.939
S81M3Z00...	M3	STRAIGHT	42CrMoA	3.15	13	6.465	9813302	575Z1A2	58111	13.535	1 1/4-7UNC	2.945
S81M2Z00...	M2	STRAIGHT	42CrMoA	3.15	15.36	8.26	9814551	575Z1B1	58114	16	1 3/4-12UNF	2.939



KIT HUBS



Q5

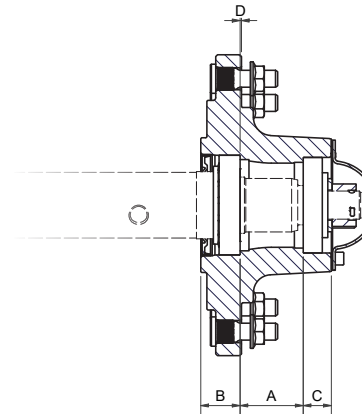


10 bolt / 11.25" bolt circle / 8.646" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
Q5	12000	59939520	599453A	59839585	1.75	598460	2.5	56110809	57122B1	-	57322B3	5491141	2.81	1.75	1.25	0.06



Q2

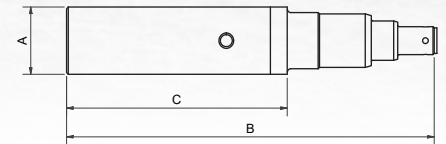


10 bolt / 11.25" bolt circle / 8.69" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
Q2	12000	39520 59939520	453A 599453A	39585 59839585	2.5	460 598460	1.75	56110801	572Z341	-	573Z341	5491141	2.81	1.75	1.25	0.06
Q4	12000	39520 59939520	453A 599453A	39585 59839585	2.5	460 598460	1.75	56110801	572Z341	-	573Z342	5490762	2.81	1.75	1.25	0.06
Q1	15000	33462 59933462	453A 599453A	33275 59833275	2.75	460 598460	1.75	56110801	572Z341	-	573Z341	5471181	2.81	1.868	1.25	0.06
Q3	15000	33462 59933462	453A 599453A	33275 59833275	2.75	460 598460	1.75	56110801	572Z341	-	573Z341	5491181	2.81	1.868	1.25	0.06
YA	22000	HM-218210 599218210	HM-218210 599218210	HM-218248 598218248	3.5423	HM-218248 598218248	3.5423	56214701	572Z341	-	573Z341	5471471	4	2.2	2.188	1.75

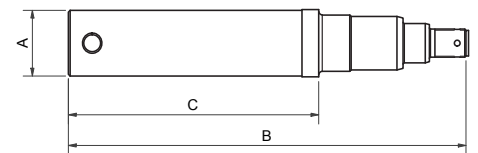
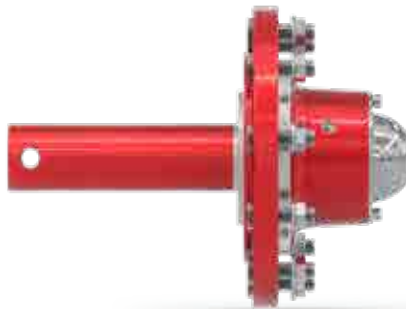
10 BOLT

STUBAXLES



10 bolt / 11.25" bolt circle / 8.646" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SI3Q5Z00...	Q5	STRAIGHT	42CrMoA	3	16	9.843	9813302	575Z1A1	58111	16.8	1 1/4-12UNF	2.995



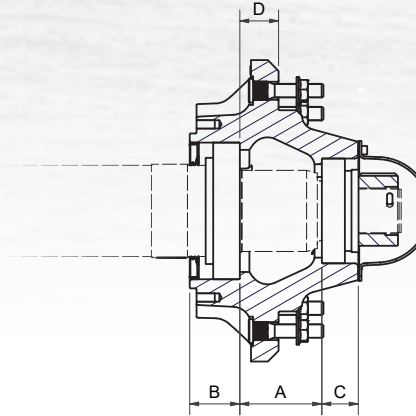
10 bolt / 11.25" bolt circle / 8.69" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SI3Q2Z00...	Q2	STRAIGHT	42CrMoA	3	16	8.699	9813302	575Z1A1	58111	17.031	1 1/4-12UNF	2.995
SZZQ4Z00...	Q4	STRAIGHT	42CrMoA	3.125	16	8.699	9813302	575Z1A1	58111	19.2	1 1/4-12UNF	3
SB1Q1Z00...	Q1	STRAIGHT	42CrMoA	4.331	16	8.52	9813302	575Z1A1	58111	17.031	1 1/4-12UNF	2.835
SZZQ3Z00...	Q3	STRAIGHT	42CrMoA	3.469	16	9.504	9813302	575Z1A1	58111	29.528	1 1/4-12UNF	3.37
SI4YAZ00...	YA	STRAIGHT	42CrMoA	3.98	16	6.8	9818601	984Z111 98808601	-	16.09	AN-17	3.661

KIT HUBS



Y2

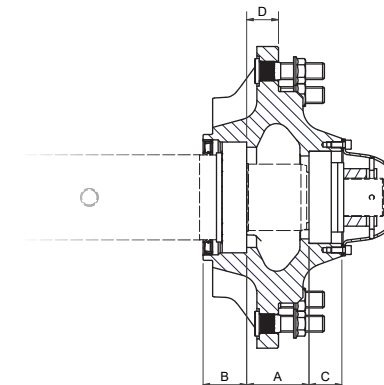


10 bolt / 13.188" bolt circle / 11" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
Y2	35000	71750 59971750	653 599653	71455 59871455	4.531	663 598663	3.25	56114603	57122B1	-	-	5491271	4.5	2.75	2	2.13
Y5	35000	71750 59971750	653 599653	71455 59871455	4.531	663 598663	3.25	56116801	57122B27	-	57322B3	5491402	4.53	2.72	2	2.16
Y1	35000	71750 59971750	653 599653	71455 59871455	4.531	663 598663	3.25	56114603	57122B1	-	57322B3	5491402	4.5	2.75	2	2.13
Y3	35000	71750 59971750	653 599653	71455 59871455	4.531	663 598663	3.25	-	-	-	-	-	4.5	2.75	2	2.13
W1	40000	59974850	599221410	59874550A	4	598221449	5.5	56119001	57124B5	-	57324B2	5492161	4.27	2.63	2.38	2.28
Y6	50000	792 599792	832 599832	795 598795	4.75	842 598842	3.25	56116801	57122B27	-	57322B3	5491403	4.53	2.75	2	2.16



U2



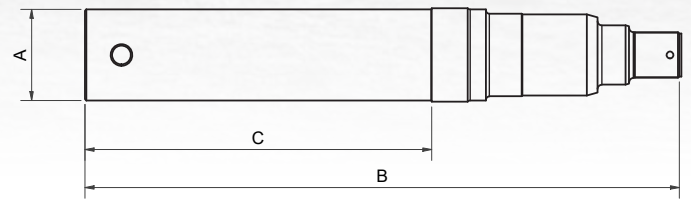
10 bolt / 13.189" bolt circle / 11.05" pilot

HUB-UNIT	CAP (LBS) @20MPH	INNER CUP	OUTER CUP	INNER CONE	BORE DIA. (IN)	OUTER CONE	BORE DIA. (IN)	HUB CAP	WHEEL BOLT	STUD	NUT	SEAL	A (IN)	B (IN)	C (IN)	D (IN)
U2	20000	HM-218210 599218210	HM-212010 595218210	HM-218248 598218248	3.5423	HM-212049 598212049	2.625	56112201	572Z782	-	573Z781	5491111	3.25	2.28	1.72	1.658
U1	20000	HM-218210 599218210	HM-212010 595218210	HM-218248 598218248	3.5423	HM-212049 598212049	2.625	56112203	57122B2	-	57322B3	5471531	3.25	2.28	1.72	1.658
U3	20000	HM-218210 599218210	HM-212010 595218210	HM-218248 598218248	3.5423	HM-212049 598212049	2.625	56112203	572Z782	-	573Z781	5491091	3.25	2.28	1.72	1.658

The capacity indicated in the table must be compared accordingly pages 12-13.

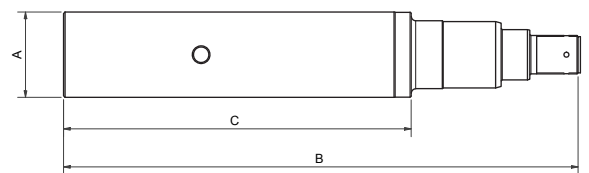
10 BOLT

STUBAXLES



10 bolt / 13.188" bolt circle / 11" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZY2Z00...	Y2	STRAIGHT	42CrMoA	5.1118	16	4.386	9816401	575Z2B1	58115	28.114	2-1/2-12UN	5
SZZY5Z00...	Y5	STRAIGHT	42CrMoA	5.5	28.207	16.597	9816401	575Z2B1	58115	28.207	2-1/2-12UN	5.495
SZZY1Z00...	Y1	STRAIGHT	42CrMoA	5.95	16	4.386	9816401	575Z2B1	58115	33.489	2-1/2-12UN	5.495
6FY300....	Y3	STRAIGHT	42CrMoA	-	-	-	9816401	575Z2B1	58411	25.091	2 1/2-12UN	5.495
SZZW1100...	W1	STRAIGHT	42CrMoA	6.25	28.39	17.445	9816602	575Z2B1	58414	29.376	2 1/2-12UN	6.25
SZZY6Z00...	Y6	STRAIGHT	42CrMoA	5.5	16	3.87	9816401	575Z2B1	58115	25.091	2 1/2-12UN	5.495



10 bolt / 13.189" bolt circle / 11.05" pilot

PART #	HUB-UNIT	SPINDLE TYPE	MATERIAL	MATERIAL DIA A (IN)	OVERALL LENGTH B (IN)	NOT MACHINED PART LENGTH C (IN)	WASHER	CROWN NUT	COTTER PIN	LENGTH (IN)	THREAD (IN)	SEAL (IN)
SZZU2Z00...	U2	STRAIGHT	42CrMoA	4.45	16	6.394	9814801	575Z201	58114	20.106	2-12UN	4.43
SZZU1Z00...	U1	STRAIGHT	42CrMoA	4.45	16	6.394	9814801	575Z201	58114	31.607	2-12UN	3.661
6FU300...	U3	STRAIGHT	42CrMoA	-	-	-	-	-	-	-	-	4.29

The capacity indicated in the table must be compared accordingly pages 12-13.



ADR

FITTINGS

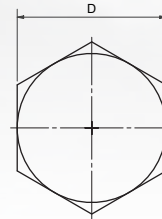
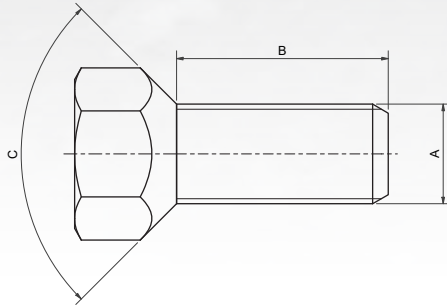
Fittings

All are designed to ensure secure, reliable, and long-lasting connections within axle and suspension systems.

As essential components for the proper functioning of the entire system, they provide seamless integration between different parts, helping maintain high performance even under demanding working conditions.

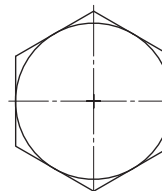
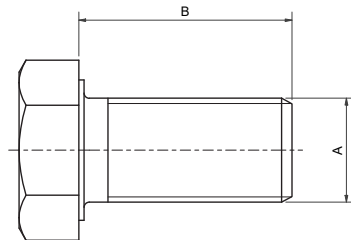
Manufactured from high-quality materials and according to strict production standards. ADR fittings offer strength, precision, and ease of installation, minimizing maintenance requirements and ensuring long-term operational continuity.





STUD

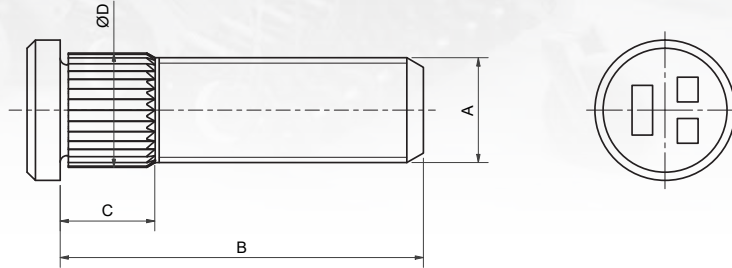
ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (DEGREE)	D (IN)	PLATING	SUITABLE HUB-UNIT								
572Z121	LUG BOLT	1/2 INCH 20 UNF	1.063	90°	0.748	ZINC PLATED	A2	F1	G1	G4	J6	J2			
572Z122	LUG BOLT	1/2 INCH 20 UNF	1.299	90°	0.748	ZINC PLATED	G1	J2	A2	F1	G4	J6			
572Z125	LUG BOLT	1/2 INCH 20 UNF	0.750	90°	0.748	ZINC PLATED	G4								
572Z963	LUG BOLT	9/16 INCH 18UNF	1.260	90°	0.866	YELLOW ZINC PLATED	G1	J2	J3	J6	J7	JY	K0	K4	KY



STUD

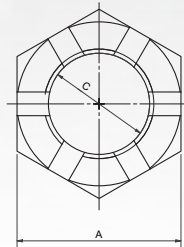
ADR CODE	DESCRIPTION	A (IN)	B (IN)	PLATING	SUITABLE HUB-UNIT								
961Z120251	HEX BOLT	1/2-20UNF	1	ZINC PLATED	G3	J2							
961Z120381	HEX BOLT	1/2-13UNC	1.5	ZINC PLATED	J2	G3							

FITTINGS



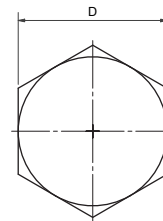
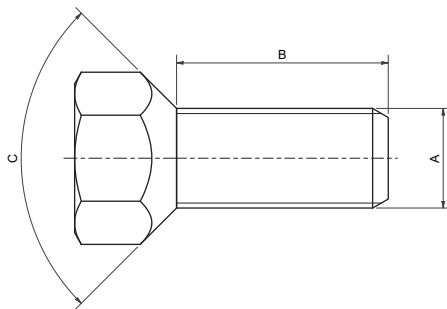
STUD

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	D (IN)	PLATING	SUITABLE HUB-UNIT											
572Z123	STUD	1/2 INCH 20 UNF	1.732	0.472	0.545	BURNISHED	A5	E1	E2	E4	G1	J9	J0	A6	I0	J9	A2	
572Z126	STUD	1/2 INCH 20 UNF	2.000	0.472	0.545	BURNISHED	A6	I0	J9	A2	A5	E1	E2	E4	G1	J9	J0	
572Z127	STUD	1/2 INCH 20 UNF	1.630	0.362	0.615	BURNISHED	G8											
572Z341	STUD	3/4 INCH 16UNF	2.756	0.787	1.000	BURNISHED	Q1	Q2	Q3	Q4	U1	U2	YA	Y1	Y2	Y3		
572Z342	STUD	3/4 INCH 16UNF	3.543	0.787	1.000	BURNISHED	Y1	Q1	Q2	Q3	Q4	U1	U2	YA	Y2	Y3		
572Z343	STUD	3/4 INCH 16UNF	3.858	0.787	1.000	BURNISHED	Y2	Y3	Q1	Q2	Q3	Q4	U1	U2	YA	Y1		
572Z382	STUD	3/8 INCH 16UNC	1.260	0.512	0.453	BURNISHED	E6											
572Z581	STUD	5/8 INCH 18UNF	2.362	0.551	0.650	BURNISHED	I0	K5	K7	K9	KU	KY	M1	M2	M3	KP	KQ	M2
572Z583	STUD	5/8 INCH 18UNF	2.559	0.551	0.650	BURNISHED	M2	I0	K5	K7	K9	KU	KY	M1	M2	M3	KP	KQ
572Z761	STUD	7/16 INCH 20UNF	1.732	0.512	0.545	BURNISHED	E4	G1	E5									
572Z781	STUD	7/8 INCH 14UNF	3.929	0.787	1.000	BURNISHED	Y1	U2	U3									
572Z782	STUD	7/8 INCH 14UNF	3.406	0.787	1.000	BURNISHED	U2	U3	Y1									
572Z962	STUD	9/16 INCH 18UNF	2.362	0.551	0.591	BURNISHED	K4	K9	KS	KY	K6	KX	J2	JI	JW	A6		
572Z964	STUD	9/16 INCH 18UNF	2.362	0.551	0.591	ZINC PLATED	K4	K6	KX	KY	K9	KS	J2	JI	JW	A6		
572Z966	STUD	9/16 INCH 18UNF	2.232	0.551	0.591	BURNISHED	J2	JI	JW	K4	K9	KS	K6	KX	A6	KY		
572Z967	STUD	9/16 INCH 18UNF	1.890	0.551	0.591	BURNISHED	A6	K4	K9	KS	K6	KX	J2	JI	JW	KY		
57122B27	STUD	M22X1.50	4.000	0.630	0.949	BURNISHED	Y5	Y6	Q5									
57122B1	STUD	M22X1.50	3.307	0.630	0.949	BURNISHED	Q5	Y5	Y6									
57124B5	STUD	M24X1.50	4.252	1.260	0.984	BURNISHED	W1											



CROWN NUT

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	PLATING	SUITABLE HUB-UNIT																		
575Z101	CROWN NUT	1.496	0.866	1-14UNS	ZINC PLATED	J2	JY	KS	A6	G1	J3	KY	K4	J5	J7	K6	K8	J1	J6	KS	K0	KX	KQ	KU
575Z102	CROWN NUT	1.496	0.551	1-14UNS	ZINC PLATED	E6	E2	F1	KT															
575Z104	CROWN NUT	1.496	0.591	1-14UNS	ZINC PLATED	I0																		
575Z1A1	CROWN NUT	1.850	1.063	1-1/4-12UNF	ZINC PLATED	K5	K9	M1	Q1	Q2	Q3	Q4	K9	K7	KP									
575Z1A2	CROWN NUT	1.850	0.827	1-1/4-7UNC	ZINC PLATED	M3																		
575Z1B1	CROWN NUT	2.441	1.260	1-3/4-12UN	ZINC PLATED	M2																		
575Z201	CROWN NUT	3.000	1.190	2-12UN	ZINC PLATED	U2	U1																	
575Z2B1	CROWN NUT	3.750	2.156	2-1/2-12UN	ZINC PLATED	Y3	Y4	W1	Y1	Y2	Y6	Y5												
575Z341	CROWN NUT	1.098	0.650	3/4-16UNF	ZINC PLATED	A2	G5	G8	E1															
575Z342	CROWN NUT	1.098	0.421	3/4-16UNF	ZINC PLATED	E4	E5																	
575Z781	CROWN NUT	1.300	0.750	7/8-14UNF	ZINC PLATED	J9	G3	G4																



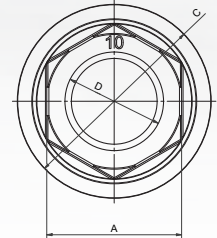
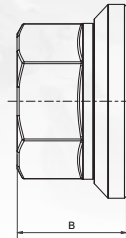
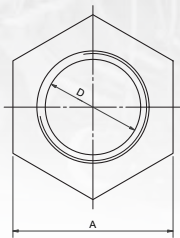
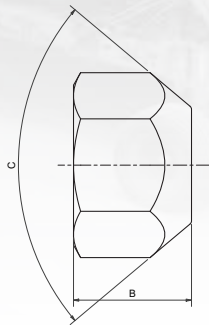
CROWN NUT

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (DEGREE)	PLATING	SUITABLE HUB-UNIT								
572Z121	LUG BOLT	1/2 INCH 20 UNF	1.063	90°	ZINC PLATED	A2	F1	G1	G4	J6				
572Z122	LUG BOLT	1/2 INCH 20 UNF	1.299	90°	ZINC PLATED	G1	J2							
572Z125	LUG BOLT	1/2 INCH 20 UNF	0.750	90°	ZINC PLATED	G4								
572Z963	LUG BOLT	9/16 INCH 18UNF	1.260	90°	YELLOW ZINC PLATED	G1	J2	J3	J6	J7	JY	K0	K4	KY

CROWN NUT

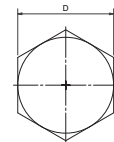
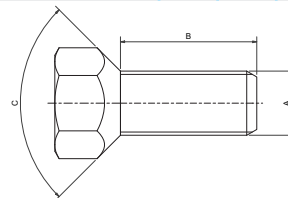
ADR CODE	DESCRIPTION	A (IN)	B (IN)		PLATING	SUITABLE HUB-UNIT							
961Z120251	HEX BOLT	1/2-20UNF	1INCH		ZINC PLATED	G3							
961Z120381	HEX BOLT	1/2-13UNC	1.5INCH		ZINC PLATED	J2							

FITTINGS



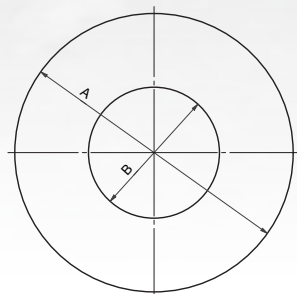
WHEEL NUT

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C DEGREE	D (IN)	PLATING	SUITABLE HUB-UNIT									
573Z121	LUG NUT	0.748	0.551	80°	1/2-20UNF	ZINC PLATED	E4	E5	J9	A2	I0	G1				
573Z123	LUG NUT	0.813	0.626	90°	1/2-20UNF	ZINC PLATED	J9	A2	I0	G1	E4	E5				
573Z124	LUG NUT	0.827	0.610	60°	1/2-20UNF	ZINC PLATED	E5	E4	J9	A2	I0	G1				
573Z125	LUG NUT	0.813	0.626	90°	1/2-20UNF	ZINC PLATED	G1	E4	E5	J9	A2	I0				
573Z126	LUG NUT	0.748	0.551	80°	1/2-20UNF	ZINC PLATED	E4	E5	J9	A2	I0	G1				
573Z127	LUG NUT	0.748	0.610	60°	1/2-20UNF	ZINC PLATED	E5	E4	J9	A2	I0	G1				
573Z128	LUG NUT	0.748	0.551	80°	1/2-20UNF	ZINC PLATED	E4	E5	J9	A2	I0	G1				
573Z129	LUG NUT	0.807	0.630	60°	1/2-20UNF	ZINC PLATED	E4	E5	J9	A2	I0	G1				
573Z581	LUG NUT	0.938	0.720	90°	5/8-18UNF	ZINC PLATED	KY	K9	KQ	KU	KP	M1	M2	M3		
573Z761	LUG NUT	0.675	0.551	90°	7/16-20UNF	ZINC PLATED	G1	E5								
573Z762	LUG NUT	0.748	0.551	60°	7/16-20UNF	ZINC PLATED	E5	G1								
573Z961	LUG NUT	1.000	0.689	90°	9/16-18UNF	ZINC PLATED	KX	J2	K9	KY	JW	K4	K6	J2	JI	KS
573Z962	LUG NUT	1.000	0.563	100°	9/16-18UNF	ZINC PLATED	KX	J2	K9	KY	JW	K4	K6	J2	JI	KS
573Z963	LUG NUT	1.000	0.689	90°	9/16-18UNF	ZINC PLATED	J2	JI	KS	KX	J2	K9	KY	JW	K4	K6
573Z964	LUG NUT	0.880	0.800	60°	9/16-18UNF	ZINC PLATED	KX	J2	K9	KY	JW	K4	K6	J2	JI	KS
ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	D (IN)	PLATING	SUITABLE HUB-UNIT									
57322B3	FLANGE NUT	1.260	1.024	1.811	M22X1.5	GEOMET	Y5	Y6								
573Z781	FLANGE NUT	1.125	0.625	1.500	7/8-14UNF	ZINC PLATED	Y1	U2	U3							
573Z341	FLANGE NUT	1.125	0.625	1.500	3/4-16UNF	ZINC PLATED	Q1	Q2	Q3	Q4	Y2	U1	U2	YA	Q4	
573Z342	FLANGE NUT	1.496	1.063	1.969	3/4-16UNF	ZINC PLATED	Q4	Q1	Q2	Q3	Q4	Y2	U1	U2	YA	



WHEEL NUT

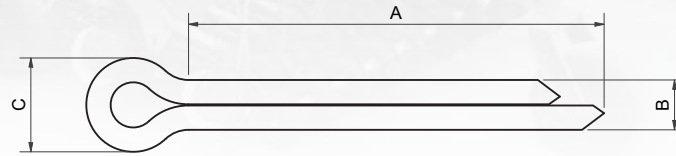
ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (DEGREE)	D (IN)	PLATING	SUITABLE HUB-UNIT				
572Z121	LUG BOLT	1/2 INCH 20 UNF	1.063	90°	0.748	ZINC PLATED	A2	F1	G1	G4	J6
572Z122	LUG BOLT	1/2 INCH 20 UNF	1.299	90°	0.748	ZINC PLATED	G1	J2			
572Z125	LUG BOLT	1/2 INCH 20 UNF	0.750	90°	0.748	ZINC PLATED	G4				
572Z963	LUG BOLT	9/16 INCH 18UNF	1.260	90°	0.866	YELLOW ZINC PLATED	G1	J2	J3	J6	J7
ADR CODE	DESCRIPTION	A (IN)	B (IN)			PLATING	SUITABLE HUB-UNIT				
961Z120251	HEX BOLT	1/2-20UNF	1INCH			ZINC PLATED	G3				
961Z120381	HEX BOLT	1/2-13UNC	1.5INCH			ZINC PLATED	J2				



WASHER

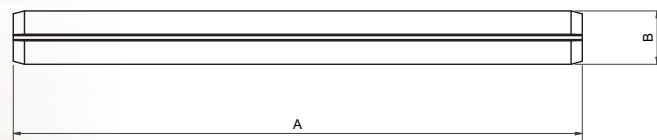
ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	PLATING	SUITABLE HUB-UNIT															
57B2601	WASHER	1.535	1.024	0.126	ZINC PLATED	E2															
9812406	WASHER	1.969	0.925	0.157	ZINC PLATED	G3	G4	J9													
9812002	WASHER	1.457	0.827	0.118	ZINC PLATED	G5	E5														
9812605	WASHER	1.670	1.012	0.118	ZINC PLATED	F1															
9812606	WASHER	2.165	1.024	0.157	ZINC PLATED	KT															
9812604	WASHER	1.969	1.063	0.157	ZINC PLATED	G1	J3	J6	J7	J2	JI	K0	KX	KY	KS	G7	KS	IO	JY		
9813302	WASHER	2.362	1.339	0.197	ZINC PLATED	K5	K7	K9	KP	M1	Q1	Q2	Q3	Q4	M3						
9812402	WASHER	2.520	1.024	0.315	ZINC PLATED	KQ	KU														
9818601	WASHER	4.724	3.356	0.315	ZINC PLATED	YA															
9816401	WASHER	4.528	2.760	0.394	ZINC PLATED	Y1	Y2	Y5	Y6	Y3											
9814801	WASHER	3.622	2.047	0.315	ZINC PLATED	U1	U2														
9812601	WASHER	1.535	1.024	0.158	ZINC PLATED	E6															
9814551	WASHER	2.756	1.791	0.236	ZINC PLATED	M2															
9813302	WASHER	2.362	1.339	0.197	ZINC PLATED	Q5															
9816602	WASHER	5.630	2.598	0.315	ZINC PLATED	W1															

FITTINGS



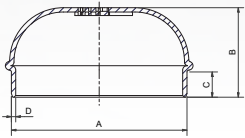
COTTER PIN

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	PLATING	SUITABLE HUB-UNIT												
58101	COTTER PIN	1.48	0.178	0.354	ZINC PLATED	E2	G5	F1	KT									
58111	COTTER PIN	1.969	0.177	0.335	ZINC PLATED	A2	G1	J3	J6	J7	J2	JI	K0	KX	KY	K5	K7	K9
						KQ	KU	KP	M1	Q1	Q2	Q3	Q4	G7	JY	KS	M3	Q5
58106	COTTER PIN	1.524	0.152	0.291	ZINC PLATED	G3	G4	J9	E6									
58104	COTTER PIN	1.138	0.098	0.327	ZINC PLATED	E5	E4											
58115	COTTER PIN	4.320	0.300	0.591	ZINC PLATED	Y1	Y2	Y5	Y6									
58114	COTTER PIN	3.853	0.230	0.465	ZINC PLATED	U1	U2	M2										
58118	COTTER PIN	1.823	0.181	0.361	ZINC PLATED	I0												
58115	COTTER PIN	4.292	0.295	0.591	ZINC PLATED	Y6												

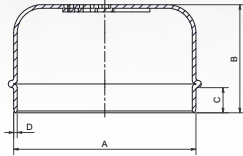


ADR CODE	DESCRIPTION	A (IN)	B (IN)		PLATING	SUITABLE HUB-UNIT												
58414	SPRING PIN	4.000	0.375		ZINC PLATED	W1												

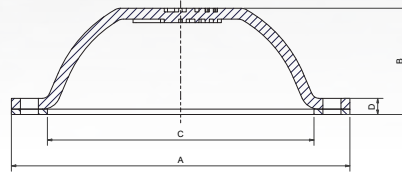
Style 1



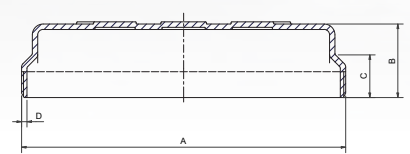
Style 2



Style 3



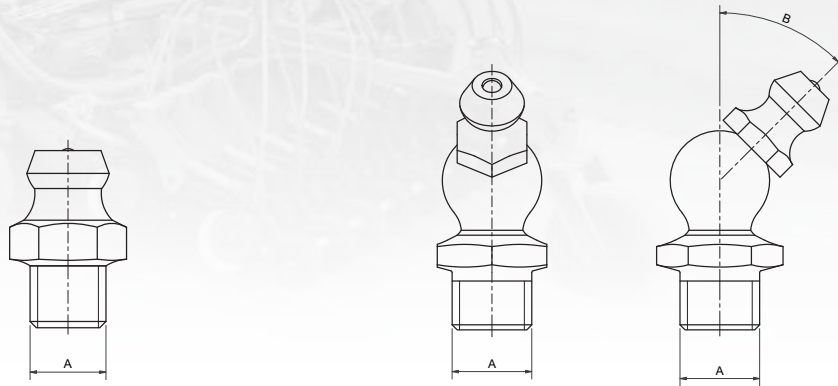
Style 4



CAP

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	D (IN)	STYLE	PLATING	SUITABLE HUB-UNIT				
56105001	HUB CAP	1.992	1.181	0.272	0.039	1	ZINC PLATED	E2	F1	E6		
56104901	HUB CAP	1.929	0.984	0.295	0.047	2	YELLOW ZINC PLATED	A2				
56106220	HUB CAP	2.453	1.299	0.314	0.047	2	YELLOW ZINC PLATED	G3	G4	G1		
56105901	HUB CAP	2.339	1.063	0.315	0.039	1	ZINC PLATED	G5				
56105002	HUB CAP	1.980	1.260	0.315	0.039	1	ZINC PLATED	E5				
56106216	HUB CAP	2.441	1.339	0.314	0.047	2	YELLOW ZINC PLATED	J9	G7			
56107301	HUB CAP	3.700	1.614	2.913	0.177	3	WHITE ZINC PLATED	KT				
56106901	HUB CAP	2.717	1.457	0.394	0.047	2	YELLOW ZINC PLATED	J2	J3	J6	J7	
56106501	HUB CAP	2.575	1.358	0.280	0.047	2	YELLOW ZINC PLATED	JI	JY			
56108020	HUB CAP	3.160	1.680	0.370	0.059	2	YELLOW ZINC PLATED	K0	KX	KY	KP	
56108015	HUB CAP	3.150	1.693	0.354	0.059	2	YELLOW ZINC PLATED	K5	K7			
56107901	HUB CAP	3.120	1.680	0.370	0.059	2	YELLOW ZINC PLATED	K9	LQ	KU		
56108501	HUB CAP	3.346	1.732	0.551	0.047	1	YELLOW ZINC PLATED	M1				
56110801	HUB CAP	5.787	1.713	4.213	0.177	3	YELLOW ZINC PLATED	Q1	Q2	Q3	Q4	Q5
56214701	HUB CAP	M150X1.5	1.339	0.472	0.098	4	YELLOW ZINC PLATED	YA				
56114603	HUB CAP	7.677	3.406	6.102	0.177	3	YELLOW ZINC PLATED	Y2	Y5	Y1		
56114601	HUB CAP	7.677	3.406	6.102	0.177	3	YELLOW ZINC PLATED	Y5	Y1	Y2		
56116801	HUB CAP	8.661	3.406	6.693	0.177	3	YELLOW ZINC PLATED	Y6				
56112201	HUB CAP	6.102	2.579	4.843	0.177	3	YELLOW ZINC PLATED	U2	U3	U1		
56112203	HUB CAP	6.102	2.579	4.843	0.177	3	YELLOW ZINC PLATED	U1	U2	U3		
56107303	HUB CAP	2.886	1.516	0.275	0.047	2	WHITE ZINC PLATED	KS				
56110803	HUB CAP	5.433	1.752	4.213	0.217	3	ZINC PLATED	M2				
56119001	HUB CAP	9.055	3.406	6.693	0.177	3	YELLOW ZINC PLATED	W1				
56116803	HUB CAP	8.661	3.406	6.693	0.177	3	BLACK RAL9005	Y6				

FITTINGS

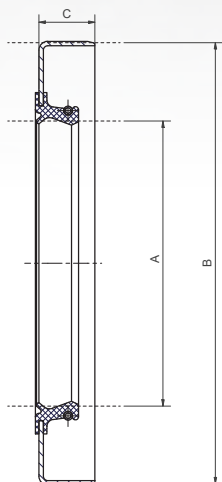


GREASE NIPPLE

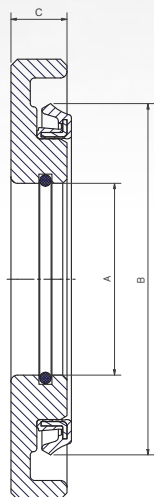
ADR CODE	DESCRIPTION	A (IN)	B (DEGREE)	PLATING	SUITABLE HUB-UNIT											
					E6	G2	G3	G4	G6	J9	JI	K5	K7	K9	KT	
986Z141	GREASE NIPPLE	1/4-28UNF	-	ZINC PLATED	M1	M2	M3	Q1	Q2	Q3	Q4	Q5	U1	U2	U3	
					W1	Y1	Y2	Y3	Y4	Y5	Y6	YA	J2	J5	KP	
					I0											
986Z181	GREASE NIPPLE	1/8-27NPT	-	ZINC PLATED												
98608A1	GREASE NIPPLE	M8X1.25	-	ZINC PLATED	J3	J6	J7	K4	K6	KS	KX	KY				
98608A2	GREASE NIPPLE	M8X1.25	45°	ZINC PLATED	E1	E2	J2									
9860611	GREASE NIPPLE	M6X1	-	ZINC PLATED	E4											



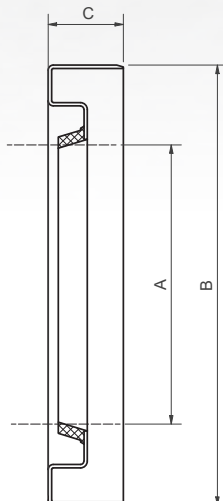
Style 1



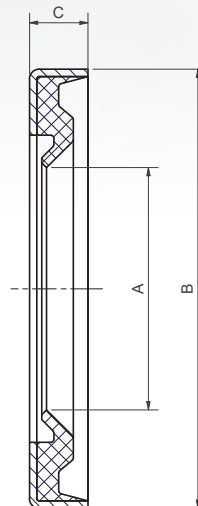
Style 2



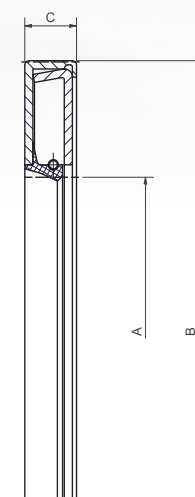
Style 3



Style 4



Style 5

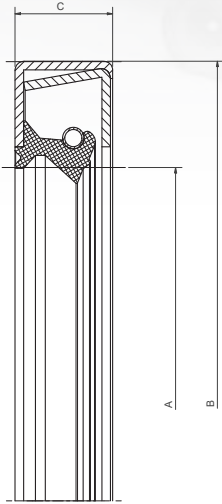


SEAL

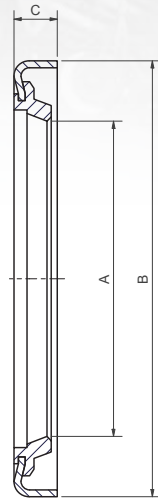
ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	STYLE	SUITABLE HUB-UNIT		
5490321	GREASE SEAL	1.250	1.983	0.250	1	E6		
5470811	GREASE SEAL	1.750	3.205	0.512	2	I0		
5490411	GREASE SEAL	1.625	2.562	0.438	3	G7		
5490495	GREASE SEAL	2.000	3.062	0.250	3	JY		
5490902	GREASE SEAL	1.957	3.547	0.472	4	KS		
5471003	GREASE SEAL	2.939	3.953	0.472	2	M1	M2	
5471006	GREASE SEAL	2.945	3.953	0.866	2	M3		
5491141	GREASE SEAL	2.894	4.505	0.436	4	Q5	Q2	
5492161	GREASE SEAL	6.250	8.508	0.500	5	W1		
5491403	GREASE SEAL	5.500	8.125	0.630	5	Y6		
5491091	GREASE SEAL	4.375	6.000	0.500	5	U3		
5491402	GREASE SEAL	5.500	7.500	0.563	5	Y3	Y5	Y1
5490903	GREASE SEAL	1.417	1.984	0.197	7	E2		
5490591	GREASE SEAL	1.496	2.327	0.465	1	A2		
5490661 / 5490484	GREASE SEAL	1.969	2.441	0.236	1	G6		
5490661 / 5490483	GREASE SEAL	1.969	2.756	0.315	1	G2		
5490542 / 5490541 / 54G0541	GREASE SEAL	1.496	2.563	0.551	9	G3		
5490593 / 5490592 / 54G0591	GREASE SEAL	1.685	2.563	0.551	9	G4		
5490627 / 5550401	GREASE SEAL	1.681	2.441	0.315	1	G5		
5490656	GREASE SEAL	1.725	2.563	0.250	3	F1		
5490494 / 5490491 / 54G0491	GREASE SEAL	1.242	2.126	0.394	9	E5		
5490623 / 5490622 / 54G0621	GREASE SEAL	1.496	2.567	0.591	9	J9		
5490752 / 5550531	GREASE SEAL	2.134	2.953	0.315	1	KT		

FITTINGS

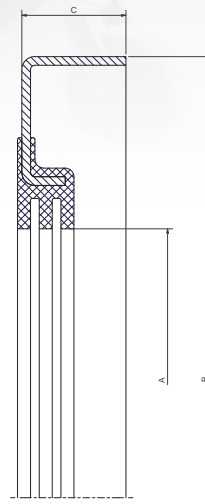
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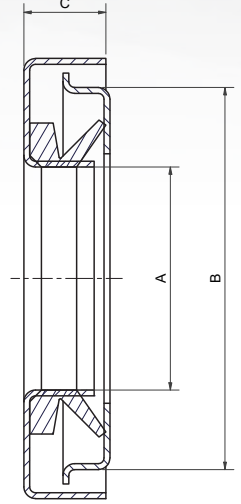
Style 7



Style 8



Style 9



SEAL

ADR CODE	DESCRIPTION	A (IN)	B (IN)	C (IN)	STYLE	SUITABLE HUB-UNIT		
5490321	GREASE SEAL	1.250	1.983	0.250	1	E6		
5490691	GREASE SEAL	1.760	2.717	0.354	1	G1		
5490481	GREASE SEAL	1.890	3.622	0.433	5	J3		
5470921	GREASE SEAL	1.850	3.642	0.866	2	J6		
5490493	GREASE SEAL	1.929	3.622	0.472	8	J7		
5470811	GREASE SEAL	1.750	3.205	0.512	2	I0		
5490495	GREASE SEAL	2.000	3.062	0.250	3	JY	JI	
5490902	GREASE SEAL	1.957	3.547	0.472	4	J2	KS	
5490411	GREASE SEAL	1.625	2.562	0.438	3	G7		
5490633	GREASE SEAL	2.500	3.751	0.438	5	K0		
5490634	GREASE SEAL	2.500	3.881	0.468	5	KX	KY	
5471021	GREASE SEAL	2.323	4.016	0.867	2	K5		
5490621	GREASE SEAL	2.441	4.003	0.472	8	K7		
5490761	GREASE SEAL	3.000	4.008	0.445	6	K9		
5490701	GREASE SEAL	2.750	3.750	0.250	3	KQ		
5470611	GREASE SEAL	2.402	3.780	0.512	2	KU		
5490763	GREASE SEAL	3.000	4.000	0.250	3	KP		
5490762	GREASE SEAL	3.000	4.500	0.440	5	Q4		
5471181	GREASE SEAL	2.835	4.646	0.984	2	Q1	Q3	
5471471	GREASE SEAL	3.661	5.807	0.866	2	YA		
5491271	GREASE SEAL	4.890	7.500	0.500	6	Y2		
5491111	GREASE SEAL	4.430	6.000	0.500	5	U2		
5471531	GREASE SEAL	3.661	6.016	0.945	2	U1		



European products section

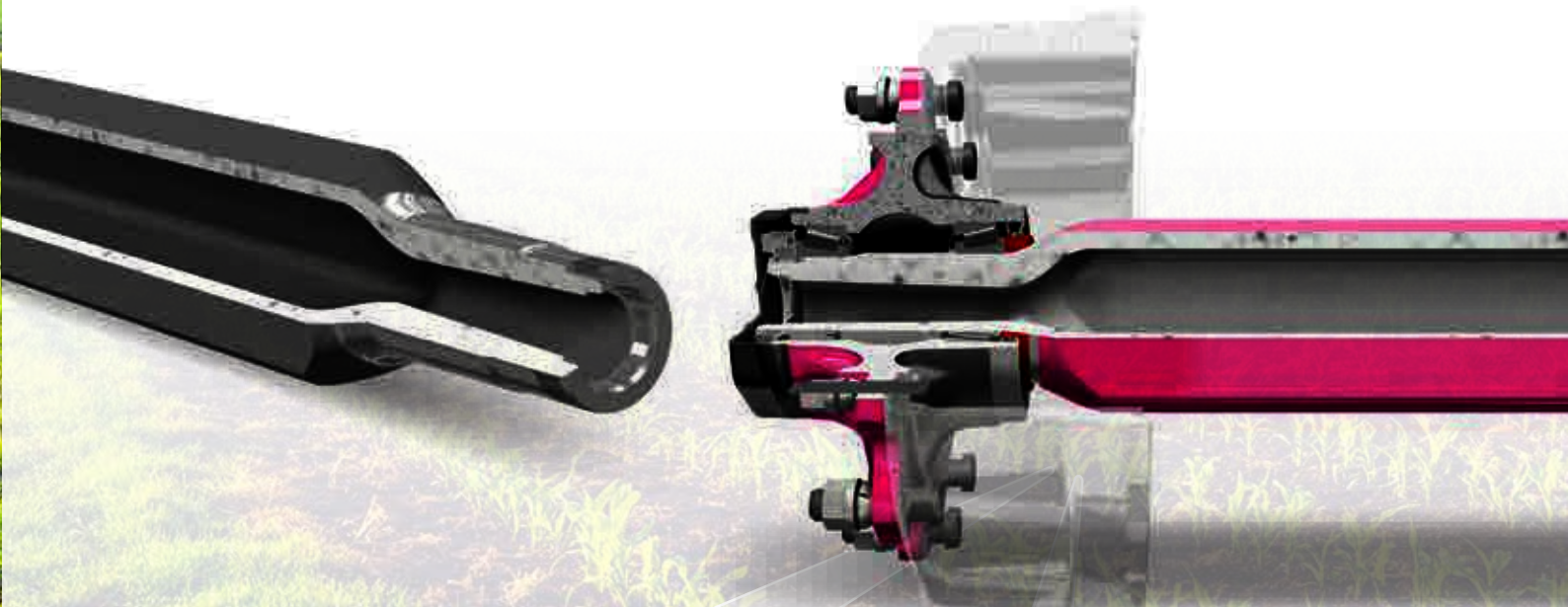


FIXED AXLES AND STUBAXLES

FIXED AXLES AND STUB-AXLES FULL SECTION AND TEKNOAX

Wide range of axles with capacities from 1 100 lbs up to over 66 130 lbs. The widest range of axles that can be equipped with agricultural and industrial brakes, all CE approved and according to the main national regulations. Sturdiness, longevity, reduced maintenance are the result of research and laboratory and field tests side by side with final users.

The variety of available models makes it easier to choose the most suitable product for each application. The Teknoax range introduces innovative agricultural axles, featuring a seamless tubular body and integrated spindles, combining strength with reduced weight. Designed for both on-road and off-road applications, they offer high performance and lower operating costs. The RFID system integrated into the spindle simplifies maintenance, while the design reduces axle body weight by 50%. Equipped with tire inflation systems, Teknoax axles ensure durability, precision, and ease of maintenance.



ADR

USE OF THE CATALOGUE

Axle Selection

The load ratings shown in the tables of this catalog represent the maximum permissible loads at the specified operating speeds for the trailer configurations described herein, equipped with single wheels and a centered wheel flange.

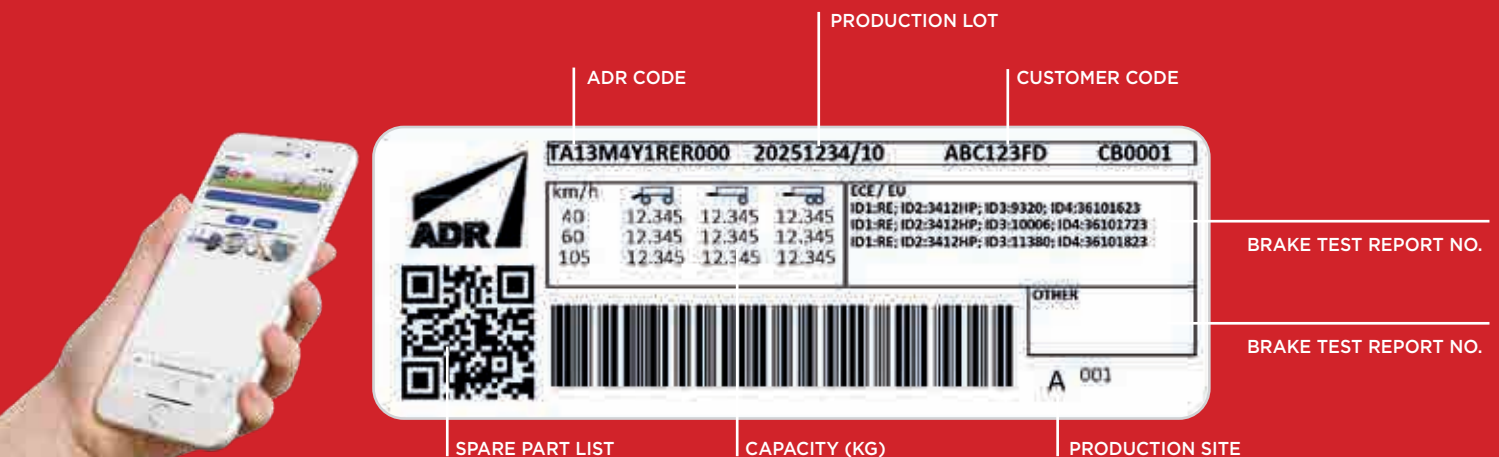
For applications using wheels with a loaded static radius greater than **600 mm (23.6 in)**, modified flange offsets, or dual-wheel configurations, please consult the **ADR USA**. Our technical team can also assist in selecting the most suitable product for special applications or operation in specific geographical and environmental conditions.

The actual capacity of an axle depends on the installation configuration. Using the graphs provided before the tables, it is necessary to verify that the selected axle is compatible with the overhang, defined as the distance between the suspension mounting point and the wheel centerline. For applications involving modified flange offsets or dual-wheel assemblies, please contact the **ADR USA**.

The overhang value "H" indicated in the tables below is calculated for a tandem-axle trailer operating at a speed of **40 km/h (25 mph)**, fitted with wheels having a maximum loaded radius of **600 mm (23.6 in)** and rims with **zero offset (ET0)**.

Factors such as operating speed, trailer type, tire and rim specifications, as well as the number and configuration of axles, may affect the values shown and could require a reduction in the stated ratings. For further information or for application-specific calculations, please contact the **ADR USA**.

AXLE and stubaxle: HOW TO READ THE IDENTIFICATION PLATE



The diagram shows a hand holding a smartphone next to an identification plate. The plate contains the following information:

- ADR CODE:** TA13M4Y1RER000
- PRODUCTION LOT:** 20251234/10
- CUSTOMER CODE:** ABC123FD
- BRAKE TEST REPORT NO.:** CB0001
- SPARE PART LIST:** ADR logo and QR code
- CAPACITY (KG):** Table showing capacity at different speeds.
- PRODUCTION SITE:** A 001

km/h	12.345	12.345	12.345
40	12.345	12.345	12.345
60	12.345	12.345	12.345
105	12.345	12.345	12.345

EC/EU
 ID1-RE: ID2:3412HP; ID3:9320; ID4:36101623
 ID1-RE: ID2:3412HP; ID3:10006; ID4:36101723
 ID1-RE: ID2:3412HP; ID3:11380; ID4:36101823

OTHER
 A 001

Brakes

The performance shown in the tables at the start of the catalogue is the result of tests carried out according to international regulations: ECE-R13, EU-2015/68 and some national regulations.

The braking capacity in tables is connected to the wheel radius used in approval tests and are not binding for the choice of axle. To check compatibility of the application with approval data, it is necessary to make a calculation that can be requested from the ADR USA, providing the characteristic data of the vehicle involved and ADR can provide the necessary calculations upon request.

For some categories of vehicles, the regulations stated require the use of anti-lock (ABS) systems and automatic break-wear compensation (AGS) systems: ADR brakes are already compliant with these requirements, ADR USA is available to provide any information on this matter that you may require.

Special Applications

For vehicles equipped with closely spaced axle groups, including tandem, tridem, or similar configurations, the use of steering axle solutions may help reduce tire scrub during turning maneuvers, improve tire life, and enhance vehicle maneuverability. The suitability of steering axle configuration depends on the vehicle design and operating conditions, ADR Engineering Services can assist manufacturers in selecting the most appropriate axle and suspension solution for their application.

Applications involving the transportation of liquids may generate additional dynamic loads due to load movement within the tank. Likewise, the use of low-pressure tires may influence vehicle handling and stability characteristics. These factors should be carefully evaluated during the vehicle design process.

ADR Engineering Services is available to provide technical support and application-specific recommendations for these and other specialized operating conditions.



Note: Indications valid only for European products

INDICATIVE BRAKE CHARACTERISTICS

BRAKE			MINIMUM WHEEL	DRUM OUT Ø		AVAILABLE LEVER	
TYPE	DIMENSIONS (mm)	DIMENSIONS (in)	in	mm	in	mm	
14M	140x30	5.51x1.18	8	156	6.14	90	F
20M	200x40	7.87x1.57	10	214	8.43	110 - 140 - 170 - 210	F
250	250x40	9.84x1.57	13	262	10.31	100 - 125 - 150 - 180 150 - 180 - 210 - 240	F
256E	250x60	9.84x2.36	13	280	11.02	100 - 125 - 150 - 180 150 - 180 - 210 - 240	F
306E	300x60	11.81x2.36	15	335	13.19	100 - 125 - 150 - 180 150 - 180 - 210 - 240	F
309E	300x90	11.81x3.54	15	340	13.39	100 - 125 - 150 - 175 - 200 133 - 163 - 189 - 215 - 240 250 - 275 - 300	F
314E	300x135	11.81x5.31	15	345	13.58	100 - 125 - 150 - 175 - 200 127 - 152 - 178 - 203	R
316A	300x160	11.81x6.30	15	345	13.58	120 - 135 - 150 - 165 - 180 - 250 127 - 152 - 178 - 203	A
3020S2	300x200	11.81x7.87	15	357	14.06	120 - 135 - 150 - 165 - 180 - 250 127 - 152 - 178 - 203	R
3412HP	340x120	13.39x4.72	17 *	390	15.35	120 - 135 - 150 - 165 - 180 - 250 120 - 150 - 180 - 230 135 - 165 - 195 - 230	A
356E	350x60	13.78x2.36	17.5	390	15.35	120 - 135 - 150 - 165 - 180 - 195 - 250 105 - 120 - 135 - 150 - 165 - 180 - 250 100 - 125 - 150 - 175 - 200 133 - 163 - 189 - 215 - 240 250 - 275 - 300	F
359E	350x90	13.78x3.54	17.5	390	15.35	100 - 125 - 150 - 175 - 200 133 - 163 - 189 - 215 - 240 250 - 275 - 300	R
408E	400x80	15.75x3.15	19.5	438	17.24	100 - 125 - 150 - 175 - 200 133 - 163 - 189 - 215 - 240 250 - 275 - 300	F
410E	400x100	15.75x3.94	19.5"	450	17.72	100 - 125 - 150 - 175 - 200 133 - 163 - 189 - 215 - 240 250 - 275 - 300	R
406HP	406x120	15.98x4.72	19.5	460	18.11	120 - 150 - 180 - 230 135 - 165 - 195 - 230 120 - 135 - 150 - 165 - 180 - 195 - 250 105 - 120 - 135 - 150 - 165 - 180 - 250	F
412E	406x120	15.98x4.72	19.5	460	18.11	120 - 150 - 180 - 230 135 - 165 - 195 - 230 120 - 135 - 150 - 165 - 180 - 195 - 250 105 - 120 - 135 - 150 - 165 - 180 - 250	R
414E	406x140	15.98x5.51	19.5	460	18.11	127 - 152 - 178 - 203 120 - 135 - 150 - 165 - 180 - 250	A
4218E	420x180	16.54x7.09	22	478	18.82	127 - 152 - 178 - 203 120 - 135 - 150 - 165 - 180 - 250	R
4220E	420x200	16.54x7.87	22	478	18.82	127 - 152 - 178 - 203 120 - 135 - 150 - 165 - 180 - 250	A
5218E	520x180	20.47x7.09	26	560	22.05	127 - 152 - 178 - 203 120 - 135 - 150 - 165 - 180 - 250	R

F = fixed lever | R = slack adjuster | A = automatic slack adjuster
* Check model with ADR USA

100 mm = 3.94 in 1 000 kg = 2,204.62 lbs
10 kmh = 6.21 mph 1 000 daN = 2,248.09 lbf

APPROVALS

HOMOLOGATED BRAKES

EU 2015/68

ECE R13

BRAKE			HOMOLOGATION TYPE	BRAKING CAPACITY PER AXL		WHEEL RADIUS		SPEED	TEST REPORT NO.
TYPE		DIMENSIONS			ID3	R MIN.	R TEST.	MAX.	ID4
ID1	ID2	mm		kg	daN	mm	mm	km/h	
BA	20M	200x40	EU 2015/68	1 000	981	240	300	40	36104920
			EU 2015/68	1 400	1 373	240	300	30	36105020
DF	256E	250x60	EU 2015/68	3 260	3 198	244	305	40	36107416
			EU 2015/68	4 000	3 924	269	336	30	36101118
FF	306E	300x60	EU 2015/68	3 650	3 581	318	397	40	36107016
			EU 2015/68	6 000	5 886	325	406	30	36101018
IN	309E	300x90	EU 2015/68	5 500	5 396	349.6	437	105	36105117
			EU 2015/68	6 500	6 377	349.6	437	40	36102518
			EU 2015/68	7 000	6 867	335	419	40	36103423
			EU 2015/68	7 500	7 358	349.6	437	30	36100518
			ECE R13	6 000	5 886	335.2	419	105	36102124
KF	314E	300x135	ECE R13	8 000	7 848	310.4	388	105	36103312
			EU 2015/68	9 400	9 221	310.4	388	40	36101523
			EU 2015/68	10 000	9 810	306.4	383	30	36107918
PL	316A	300x160	ECE R13	11 000	10 791	310.4	388	105	36102522
MM	3020S2	300x200	ECE R13	12 000	11 772	356.8	446	105	36110614
RE	3412HP	340x120	ECE R13	9 500	9 320	328	410	105	36101924
			EU 2015/68	9 500	9 320	328	410	105	36101623
			EU 2015/68	10 200	10 006	328	410	40	36101723
			EU 2015/68	11 600	11 380	328	410	30	36101823
NF	356E	350x60	EU 2015/68	5 000	4 905	436	545	105	36104917
			EU 2015/68	6 000	5 886	436	545	30	36105017
QF	359E	350x90	EU 2015/68	7 000	6 867	436	545	105	36103617
			EU 2015/68	8 000	7 848	368	460	40	36102319
			EU 2015/68	9 000	8 829	436	545	30	36100220
TC	408E	400x80	EU 2015/68	7 000	6 867	400	560	105	36103417
			EU 2015/68	8 000	7 848	400	560	40	36105319
			EU 2015/68	9 000	8 829	400	560	30	36105419
TE	410E	400x100	EU 2015/68	9 500	9 320	400	550	105	36102023
			EU 2015/68	10 200	10 006	400	550	40	36102123
			EU 2015/68	12 000	11 772	400	550	30	36102223
VG	406HP	406x120	ECE R13	10 500	10 301	440	550	105	36102524
			EU 2015/68	10 500	10 301	440	550	105	36100722
			EU 2015/68	11 000	10 791	400	550	40	36102022
			EU 2015/68	13 000	12 753	400	550	30	36102122
VC	412E	406x120	ECE R13	11 500	11 282	400	500	105	36106111
WC	414E	406x140	ECE R13	12 000	11 772	448	560	105	36102219
XC	4218E	420x180	ECE R13	11 000	10 791	448	560	105	36106616
			ECE R13	13 000	12 753	448	560	105	36106511
YC	4220E	420x200	ECE R13	13 500	13 244	436.8	546	105	36110812
ZE	5218E	520x180	ECE R13	14 000	13 734	535.2	669	105	36102716

For wheel radii larger than the test radius, please contact the technical department.

100 mm = 3.94 in	1 000 kg = 2,204.62 lbs
10 kmh = 6.21 mph	1 000 daN = 2,248.09 lbf

GENERAL RECOMMENDATIONS

GENERAL RECOMMENDATIONS ON RIM SIZE AND WHEELS FOR ADR PRODUCTS.

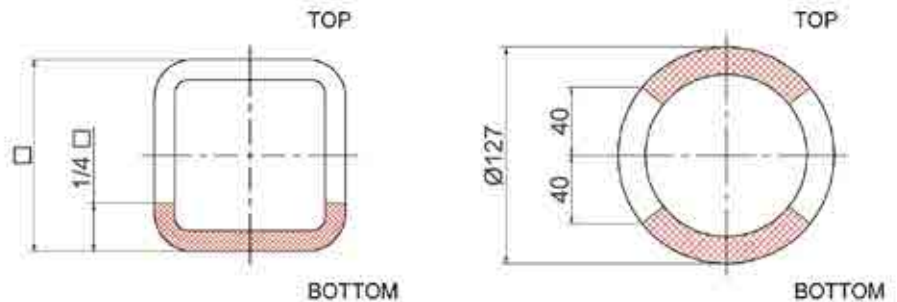
In the table below are the choices recommended by ADR for single-axle applications. For installations with closely spaced axle centers (tandem or tridem), please contact ADR to evaluate the application.

The capacity values of the axles and drive shafts shown in the catalog tables refer to these combinations. All rims are considered to have zero offset (ET0).

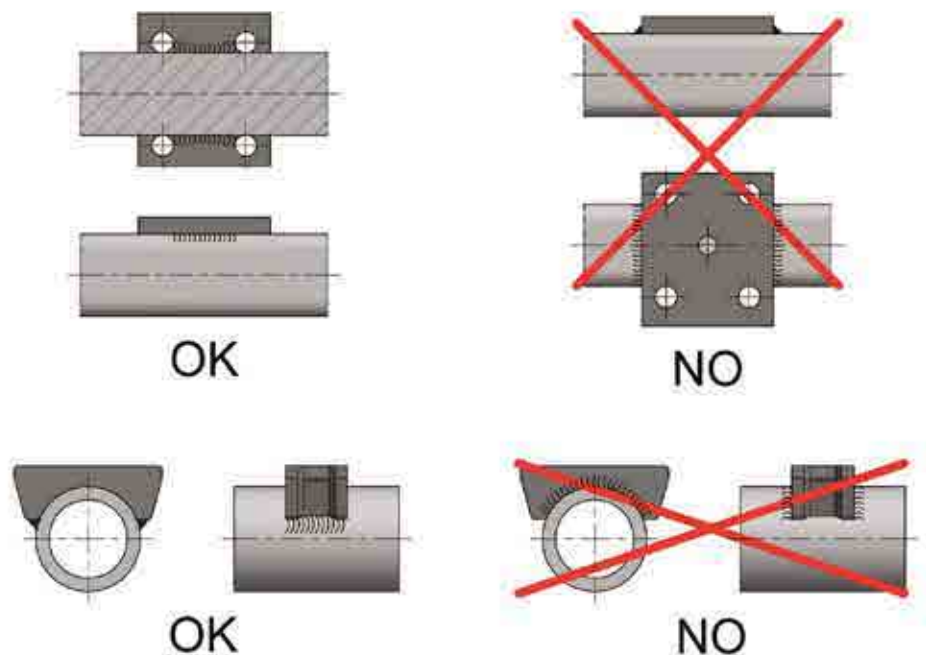
For any deviation from the recommended combinations—such as rim sizes larger than R30.5" or rim offsets other than ET0—please contact the ADR Technical Department for an application evaluation.

FITTING OF AXLES

DO NOT weld on RED area.



It's forbidden to weld crosswise to the axle.

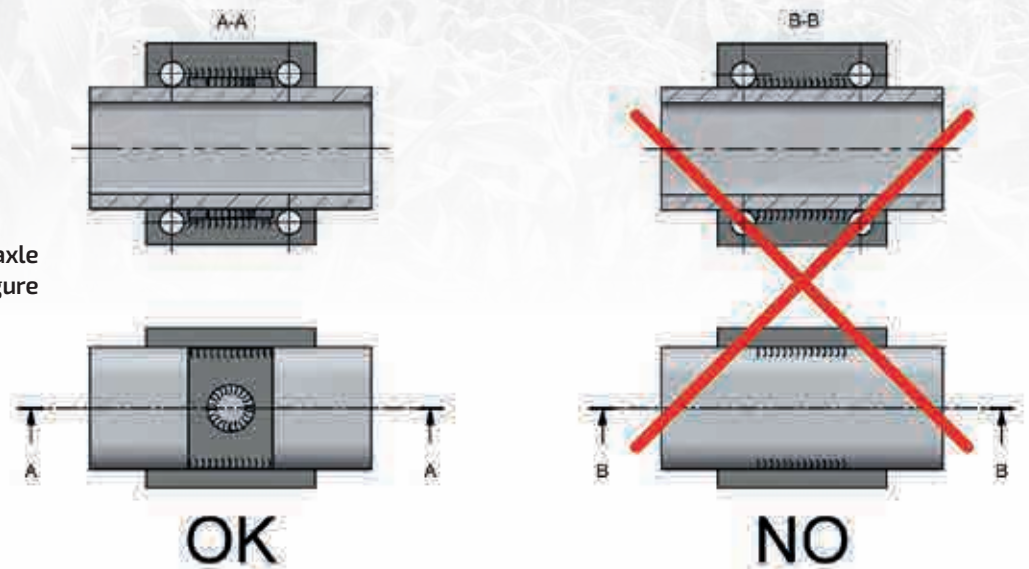


Intervention that requires welding must be executed by certified personnel only.
Contact ADR USA technical service for more detailed information on way to weld the various types of plates or supports.

FOREWORD

TUBULAR AXLES:

Do not weld any plates directly on the axle body. Follow the indication in the figure below.



ASSEMBLY AND FIXING OF THE WHEELS - TWIN WHEELS

TIGHTENING AND RETIGHTENING WHEEL NUTS (SUMMARY):

- Never use impact wrenches to tighten wheel nuts, as the impact torque may be excessive.
- Wheel nuts must be tightened diagonally using a torque wrench.
- If power tools are used (e.g., pneumatic torque wrenches), they must be carefully set to the required torque. Otherwise, studs and wheel nuts may be overtightened, causing damage or failure

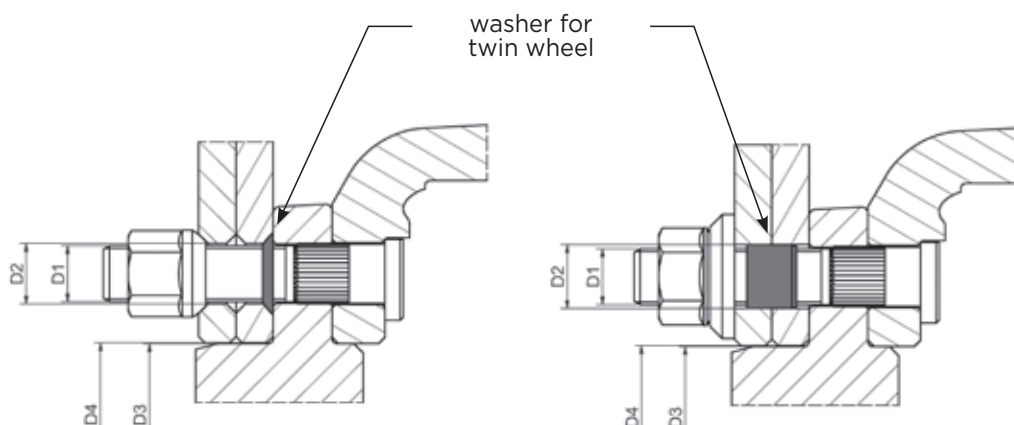
Retighten wheel nuts after:

- The first time the vehicle is used • The first loaded journey • The first 600 miles • Every 6 months or 15,000 miles

Repeat this procedure every time the wheels are removed or replaced.

Twin Wheel Washer

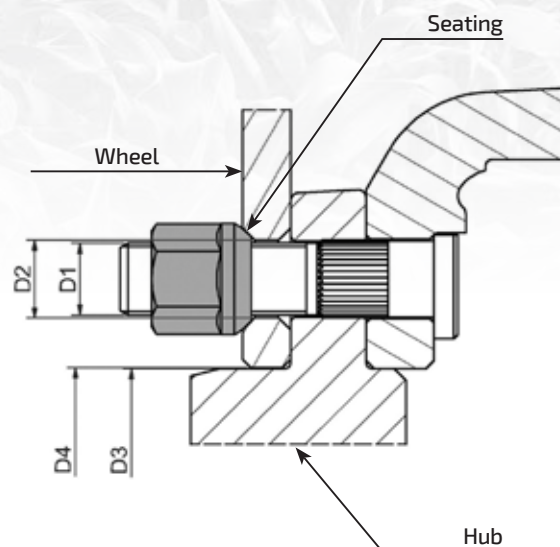
For twin-wheel installations, regardless of the nut type used (French H-type nuts or washers), you must insert a locating split spherical washer fully seated in the countersink between the hub face and the first rim. For M-type nuts, add the centering washers. The load-bearing face of the rim must be in full contact with the hub face.



ASSEMBLY AND FIXING OF THE WHEELS

DIN nut

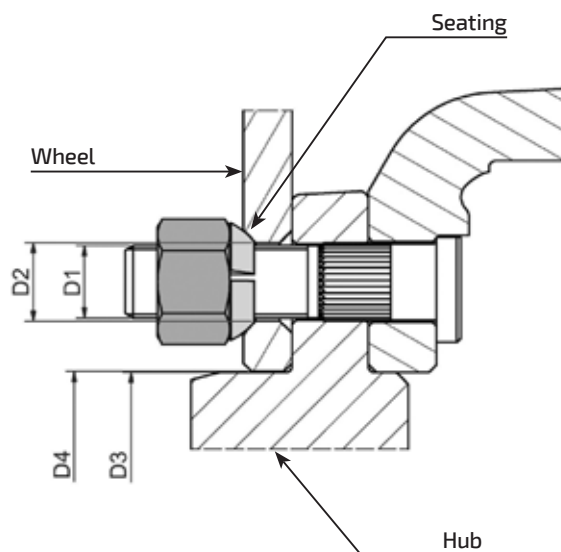
Rim holes must be chamfered to set the spherical base of the nut DIN. The tightening is getting between spherical base of the nut and the rim chamfering.



SPANNER	PCD	WHEEL STUD	TIGHTENING						HOLE RIM	HUB	INNER RIM
mm	mm	D1 (mm)	Nm			ft-lb			ØD2 (mm)	D3 (mm)	ØD4 (mm)
17	4 x Ø95	M12x1.5	90	0	+10	66.4	0	+7.38	16	62	63
19	5 x Ø140	M14x1.5	130	0	+10	95.9	0	+7.38	18.5	93	94
27	5 x Ø140	M16x1.5	200	0	+10	147	0	+7.38	18.5	93	94
24	6 x Ø205	M18x1.5	300	0	+40	221	0	+29.5	21.5	160	161
24	8 x Ø275	M18x1.5	300	0	+40	221	0	+29.5	21.5	220	221

H nut + washer

Rim holes must be countersunk to set the spherical base of the washer. The tightening is getting between spherical base of the nut and the rim chamfering.



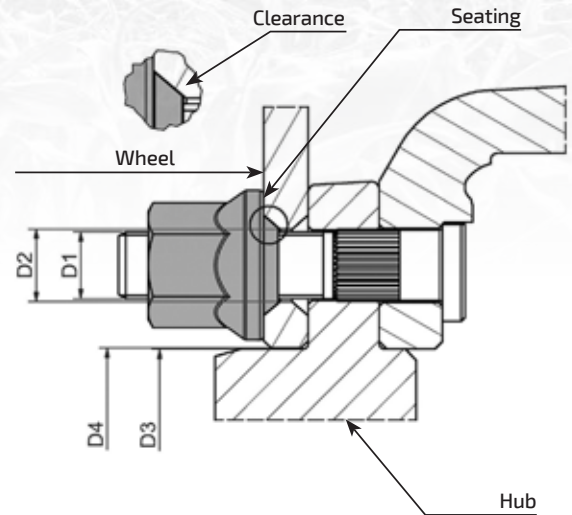
SPANNER	PCD	WHEEL STUD	TIGHTENING						HOLE RIM	HUB	INNER RIM
mm	mm	D1 (mm)	Nm			ft-lb			ØD2 (mm)	D3 (mm)	ØD4 (mm)
27	8 x Ø275	M18x1.5	300	0	+40	221	0	+29.5	21.5	220	221
30	8 x Ø275	M20x1.5	400	0	+40	295	0	+29.5	27	220	221
30	10 x Ø335	M22x1.5	535	0	+50	394	0	+36.9	27	280	281

FOREWORD

ASSEMBLY AND FIXING OF THE WHEELS

BEC nut

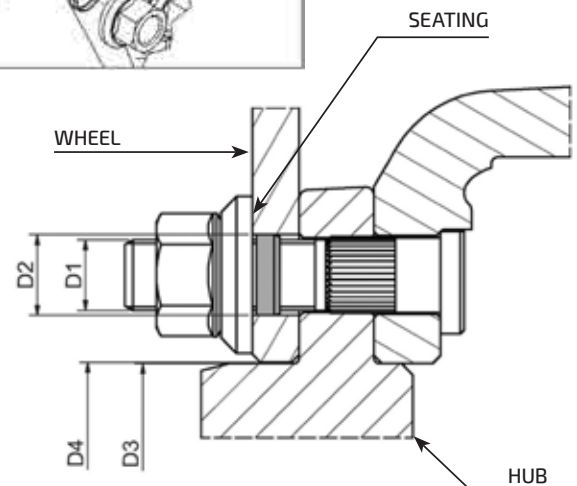
Rim holes must be Countersunk to set the spherical base of the type 'french'. The conical part of the nut is used to center the rim. it has no tightening function. To not respect this. can seriously damage the studs threading.



SPANNER	PCD	WHEEL STUD	TIGHTENING						HOLE RIM	HUB	INNER RIM
mm	mm	D1 (mm)	Nm			ft-lb			ØD2 (mm)	D3 (mm)	ØD4 (mm)
29	8 x Ø275	M18x1.5	300	0	+50	221	0	+36.9	21.5	220	221
32	10 x Ø335	M22x1.5	535	0	+70	394	0	+51.6	27	280	281

M-type nut

Holes rim must not be countersunk. The wheel locate by the hub reference diameter and the tightening by the flat revolving part of the nut (see wearing on sketch). Do not forget to insert bush item. 1. to reduce the gap between the stud and the rim hole.).



SPANNER	PCD	WHEEL STUD	TIGHTENING						HOLE RIM	HUB	INNER RIM	
mm	mm	D1 (mm)		Nm		ft-lb			ØD2 (mm)	D3 (mm)	ØD4 (mm)	
27	8x Ø275	M18x1.5	black/dacromet	270	0	+50	199	0	+36.9	21.5	220.5	221
			zinc	300		+50	221		+36.9			
32	8x Ø275	M20x1.5	black/dacromet	360	0	+50	265	0	+36.9	26	220.5	221
			zinc	400		+50	295		+36.9			
32	10x Ø335	M22x1.5	black/dacromet	485	0	+70	357	0	+51.6	26	280.5	281
			zinc	535		+70	394		+51.6			
36	10x Ø335	M24x1.5	black/dacromet	640	0	+80	472	0	+59.0	27	280.5	281
			zinc	710		+80	523		+59.0			

100 mm = 3.94 in

100 Nm = 73.8 ft-lb lbs

IDENTIFICATION

Axles - Stubaxles

A AO TN 1 VC N001

Steering axles

C7 AO TN 1 VC N001

A = Axle



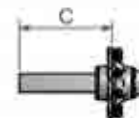
S = Stubaxle



B.... C... = Steering axle



Track. referred to single wheel ETO



Code for special fitting

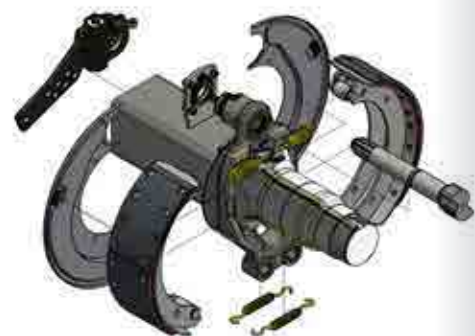


Beam type code



30 = 30 mm	1.18"	31 = 30 mm	1.18"
35 = 35 mm	1.38"	36 = 35 mm	1.38"
40 = 40 mm	1.57"	41 = 40 mm	1.57"
45 = 45 mm	1.77"	46 = 45 mm	1.77"
50 = 50 mm	1.97"	51 = 50 mm	1.97"
55 = 55 mm	2.17"	56 = 55 mm	2.17"
60 = 60 mm	2.36"	61 = 60 mm	2.36"
65 = 65 mm	2.56"	66 = 65 mm	2.56"
70 = 70 mm	2.76"	71 = 70 mm	2.76"
80 = 80 mm	3.15"	81 = 80 mm	3.15"
90 = 90 mm	3.54"	91 = 90 mm	3.54"
A0 = 100 mm	3.94"	C0 = 100 mm	3.94"
A5 = 150 mm	5.91"		

Brake type



Axle type



PCD



B4.	B = 4 Holes	62 / 95 mm	2.44 / 3.74"
F4.	4 = 4 Holes	58 / 98 mm	2.28 / 3.86"
G4.	A = 4 Holes	60 / 100 mm	2.36 / 3.94"
T4.	C = 4 Holes	84 / 130 mm	3.31 / 5.12"
05.	5 = 5 Holes	94 / 140 mm	3.70 / 140"
G5.	G = 5 Holes	66 / 112 mm	2.60 / 4.41"
06.	6 = 6 Holes	160 / 205 mm	6.30 / 8.07"
08.	8 = 8 Holes	220 / 275 mm	8.66 / 10.83"
10.	1 = 10 Holes	280 / 335 mm	11.02 / 13.19"
1R.	R = 10 Holes	175.8 / 225 mm	69.21 / 8.86"

FIXED AXLES AND STUBAXLES

TEKNOAX Axles - Stub axles

TA 13H 4T 1 VC N001

TEKNOAX Steering axles

TC7 13H 4T 1 VC N001

TA = Axle
TEKNOAX



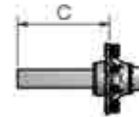
TS = Stubaxle
TEKNOAX



TC = Steering axle
TEKNOAX



Track. referred to single wheel ETO



Code for special fitting



Beam type code

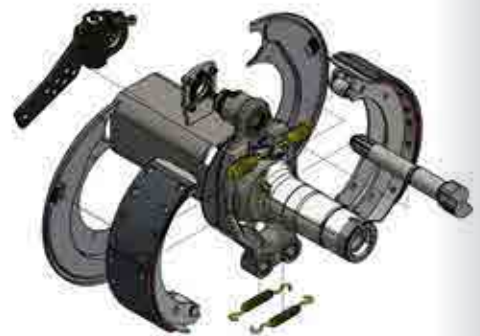


10H = 100 mm 3.94"
12E = 120 mm 4.72"
13H = 130 mm 5.12"
15L. 15M = 150 mm 5.91"



R2 = 127x16 mm 5.00x0.63"
RA = 127x20 mm 5.00x0.79"
RB = 127x25 mm 5.00x0.98"

Brake type



TIPO ASSE

Axle type. Achstyp



PCD



6	= 6 Holes	160 / 205 mm	6.30 / 8.07"
8	= 8 Holes	220 / 275 mm	8.66 / 10.83"
1	= 10 Holes	280 / 335 mm	11.02 / 13.19"
R	= 10 Holes	175.8 / 225 mm	69.21 / 8.86"

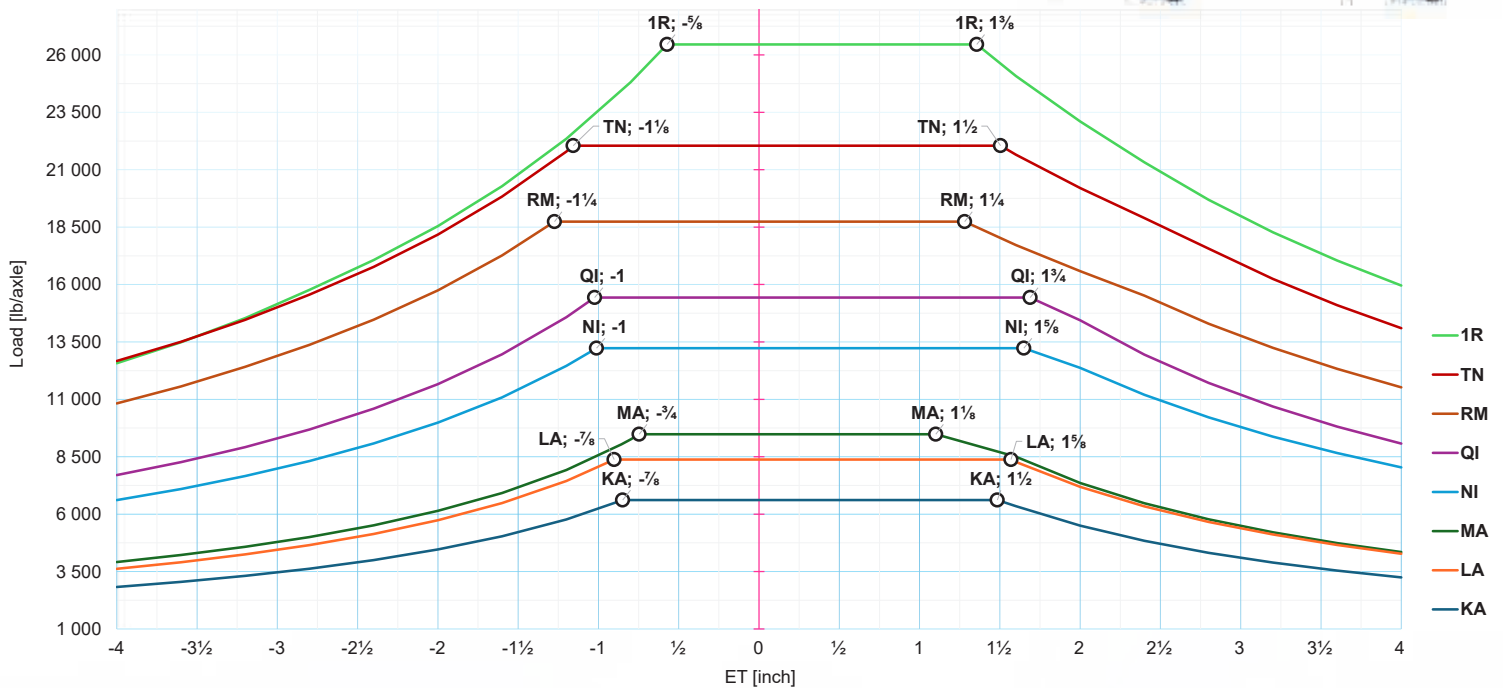
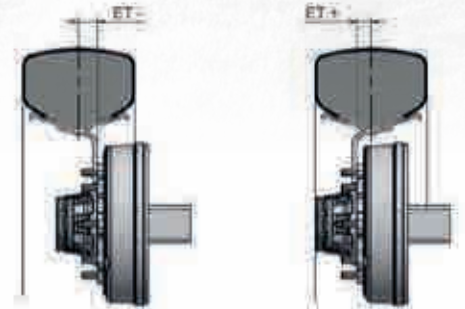
Max. AXLE LOAD CURVE WITH WHEEL FLANGE OFFSET (IN/OUTSET)

The diagrams provided below are based on a reference tandem/tridem trailer configuration at 25 MPH.
For any wheel configuration with offset, ADR USA shall be consulted to define the corresponding axle load reduction, considering the specific inset/outset, application conditions, and the selected hub unit.

MAX LOAD CAPACITY
AT SPEED LIMIT

25 mph (40 kmh)

- * Diagrams shown is for visualisation purposes only
- * Contact ADR USA for applications with flange with offset wheels
- * See "USERS' GUIDE"



WHEEL RADIUS
 KA: R16-20"
 LA: R16-20"
 MA: R20-24"
 NI: R20-24"
 QI: R20-24"
 RM: R20-24"
 TN: R20-24"
 1R: R20-24"



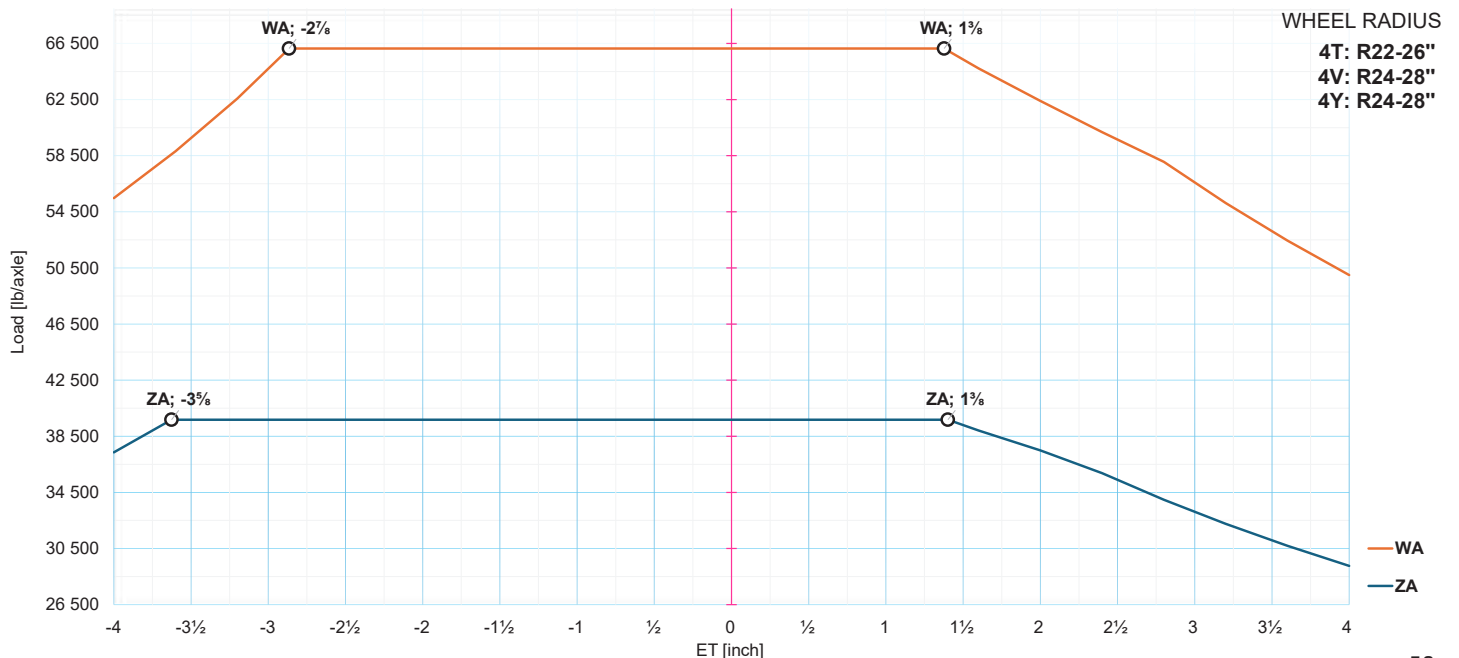
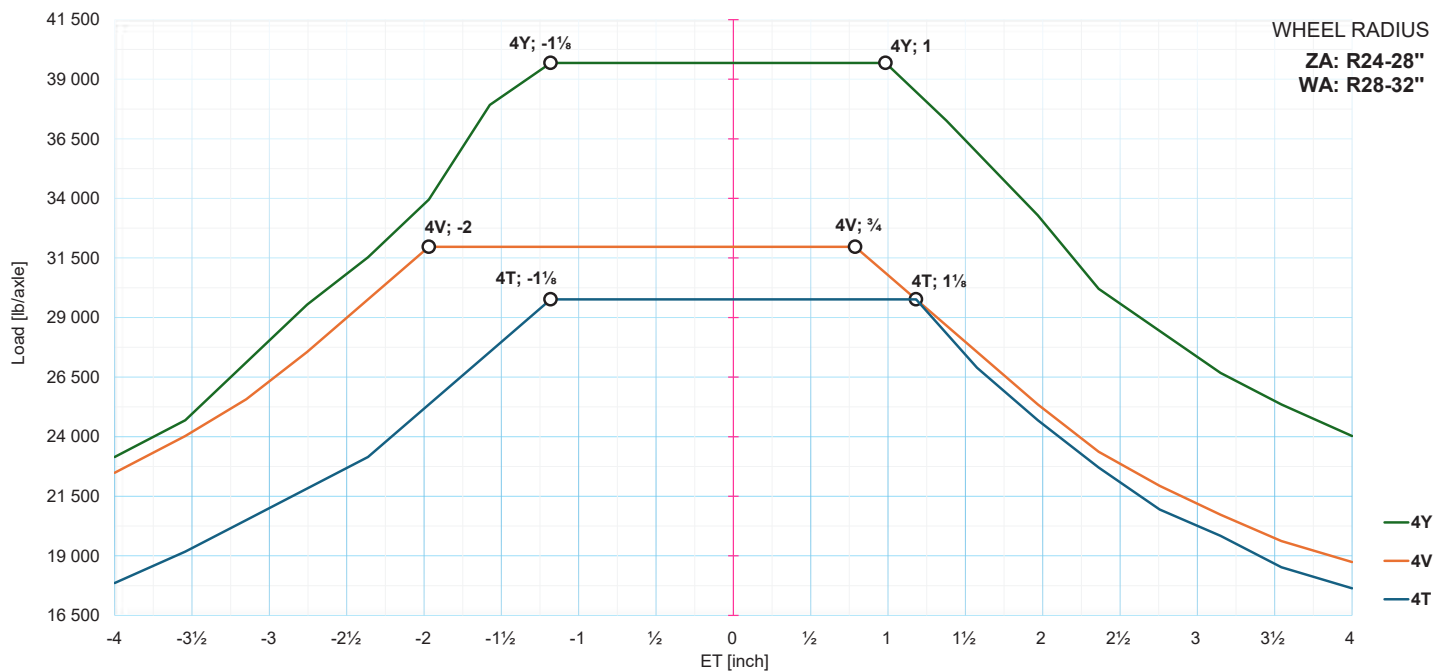
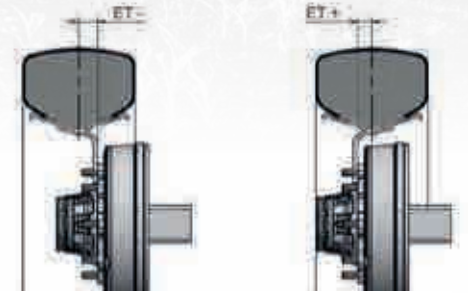
FIXED AXLES AND STUBAXLES

Max. AXLE LOAD CURVE WITH WHEEL FLANGE OFFSET (IN/OUTSET)

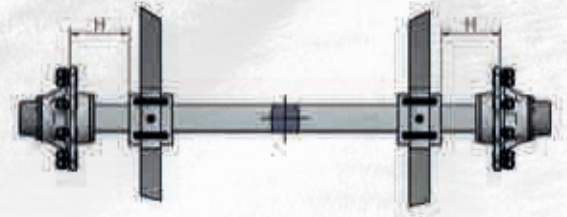
MAX LOAD CAPACITY
AT SPEED LIMIT

25 mph (40 kmh)

* Diagrams shown is for visualisation purposes only
* Contact ADR USA for applications with flange with offset wheels
* See "USERS' GUIDE"

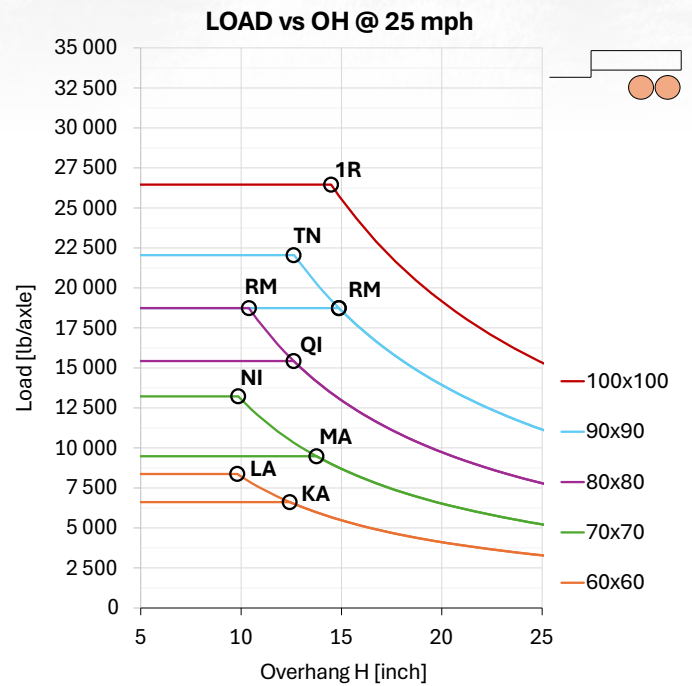
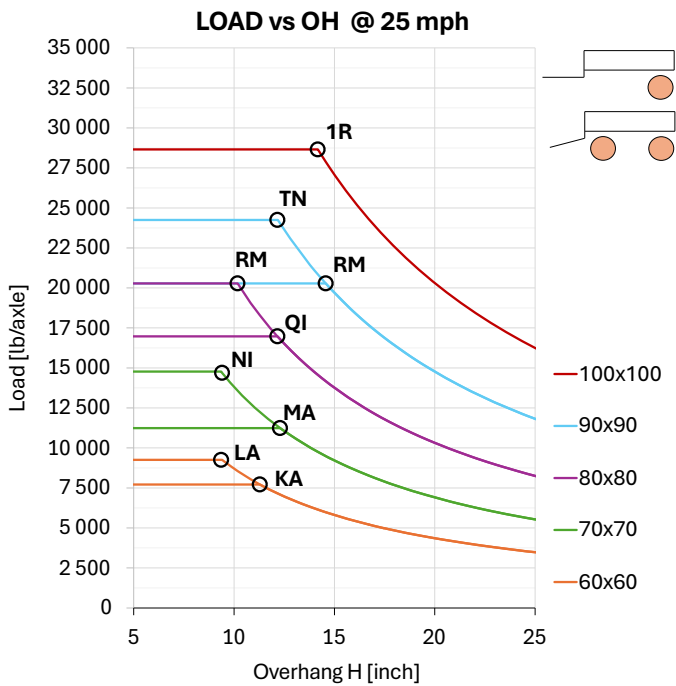


MAXIMUM CARRYING CAPACITIES of the axle solid beam



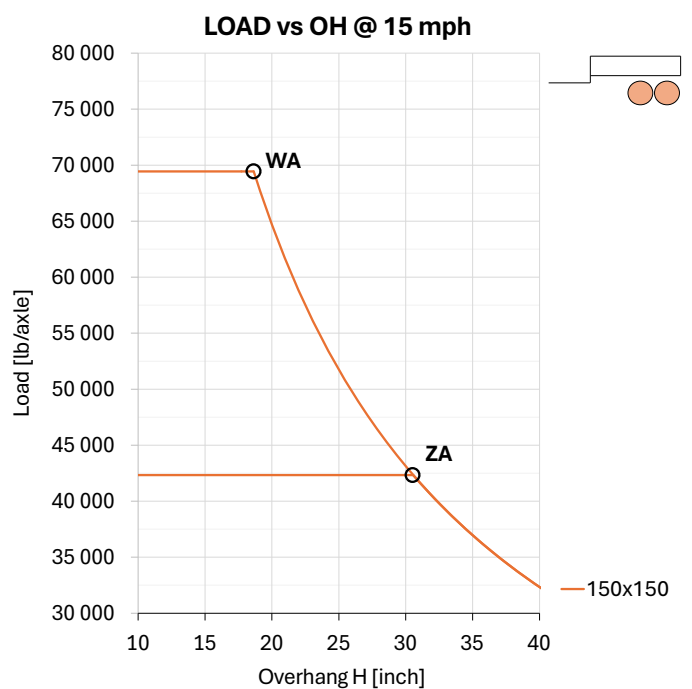
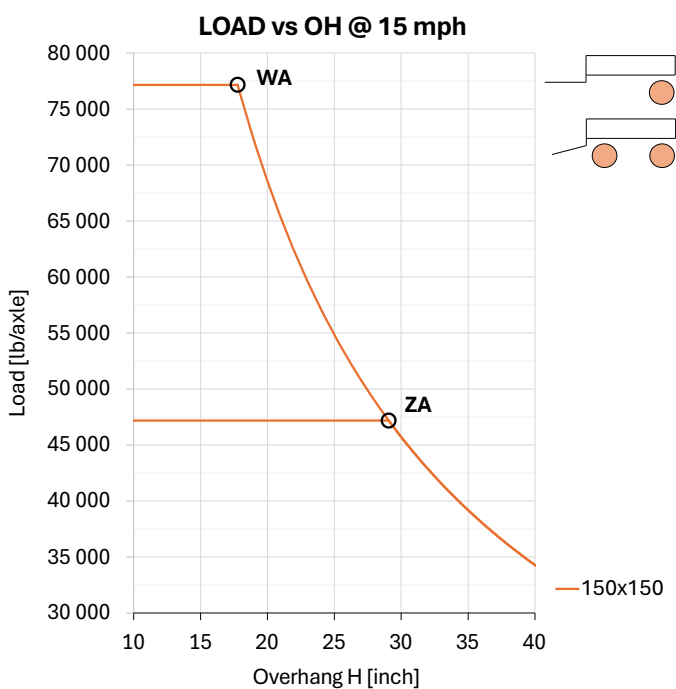
MAX LOAD CAPACITY
AT SPEED LIMIT

25 mph (40 kmh)



MAX LOAD CAPACITY
AT SPEED LIMIT

15 mph (24 kmh)



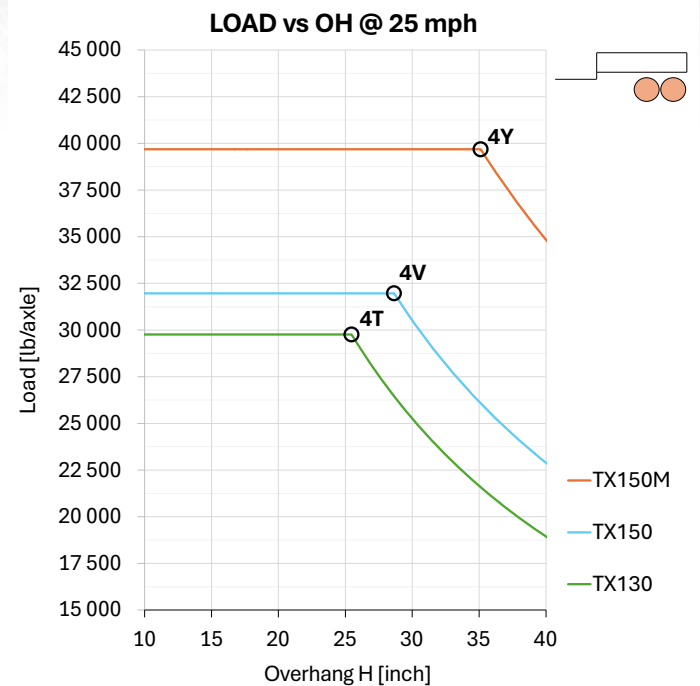
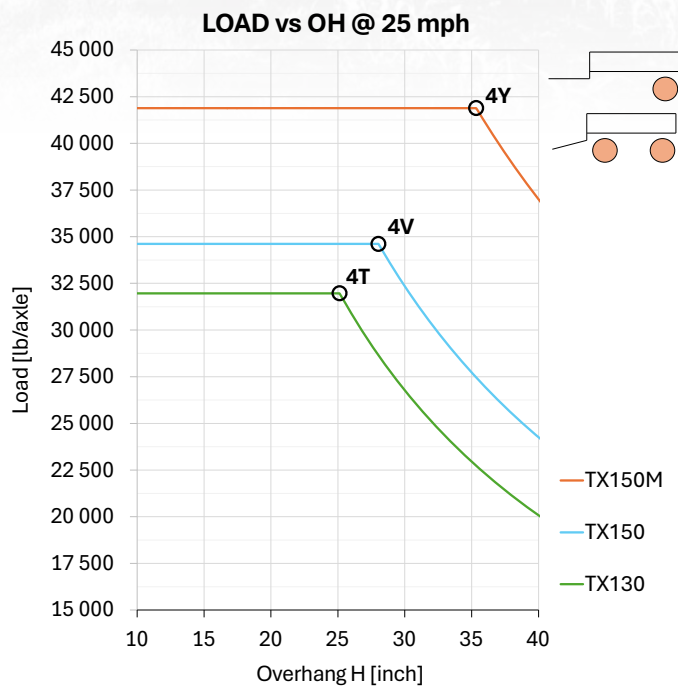
* Diagrams shown is for visualisation purposes only
 * Contact ADR USA for applications with flange with offset wheels
 * See "USERS' GUIDE"

FIXED AXLES AND STUBAXLES

MAX. CARRYING CAPACITIES for tubular axle with square beam

MAX LOAD CAPACITY
AT SPEED LIMIT

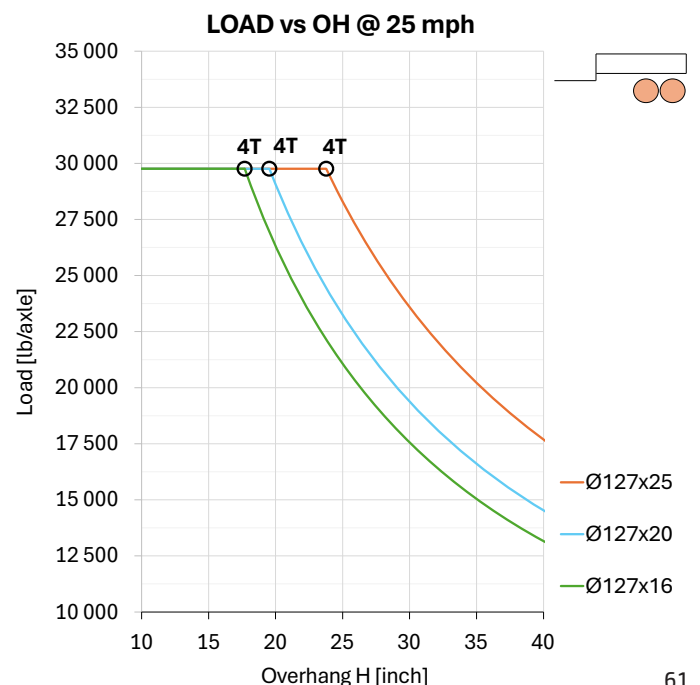
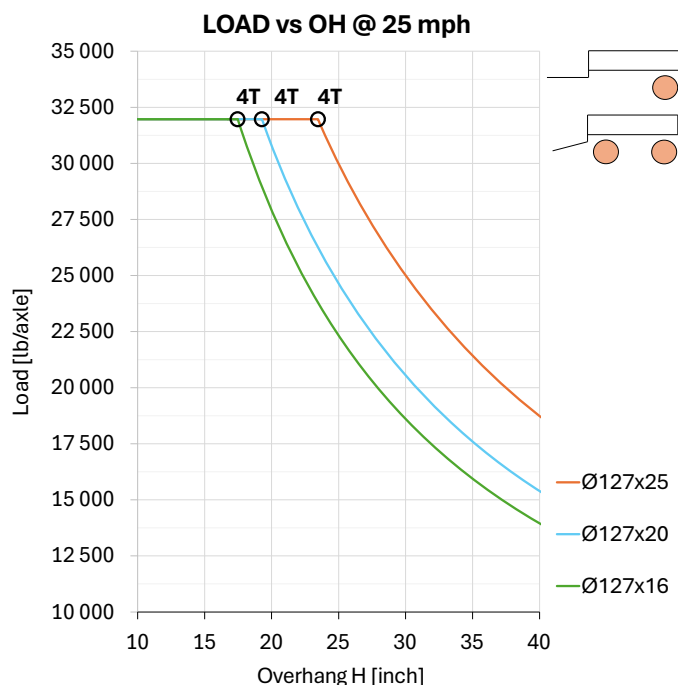
25 mph (40 kmh)

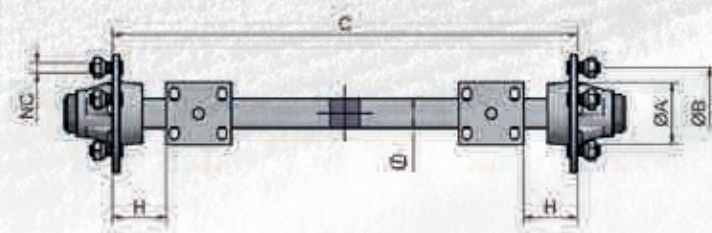


Max. CARRYING CAPACITIES for tubular axle with round beam $\phi 127$

MAX LOAD CAPACITY
AT SPEED LIMIT

25 mph (40 kmh)





UNBRAKED AXLES

CODE	SQUARE  (in)	OVERHANG H (in)	CAPACITY (lb) WITH TYRE ETØ. R MAX. 23.62"								PCD		
			15 mph		24 mph		37 mph		49 mph		NC	ØA (in)	ØB (in)
													
A60KA600...	2.36	10.63	8 810	7 710	7 710	6 610	6 610	6 060	-	-	6 M18	6.30	8.07
A60LA600...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA600...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07
A70NA600...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	6 M18	6.30	8.07
A70NA800...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83
A70NI600...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	11 900	10 580	6 M18	6.30	8.07
A70NI800...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	11 900	10 580	8 M18	8.66	10.83
A80QI600...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	13 880	12 560	6 M18	6.30	8.07
A80RM600...	3.15	9.45	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	6 M18	6.30	8.07
A80QI800...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	13 880	12 560	8 M18	8.66	10.83
A80RM800...	3.15	9.45	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	8 M18	8.66	10.83
A90RM800...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	8 M18	8.66	10.83
A90RMR00...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	10 M22	6.89	8.86
A90TN800...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	8 M20	8.66	10.83
A90TN100...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	10 M22	11.02	13.19
AA01R800...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	8 M20	8.66	10.83
AA01RR00...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	10 M22	6.89	8.86
AA01R100...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	10 M22	11.02	13.19
AA5ZA100...	5.91	29.33	47 170	42 320	44 090	39 680	39 680	35 710	35 710	31 960	10 M22	11.02	13.19
AA5WA100...	5.91	17.72	77 160	69 440	72 750	66 130	66 130	59 520	58 860	52 910	10 M24	11.02	13.19

15 mph = 25 kmh

24 mph = 40 kmh

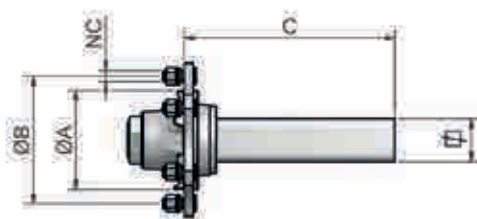
37 mph = 60 kmh

49 mph = 80 kmh

1.000 lb = 453.59 kg

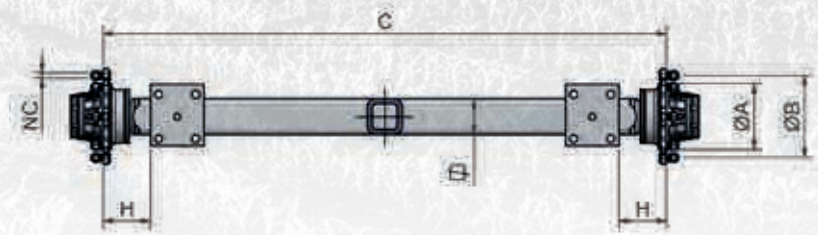
10" = 254 mm

UNBRAKED Stub axles



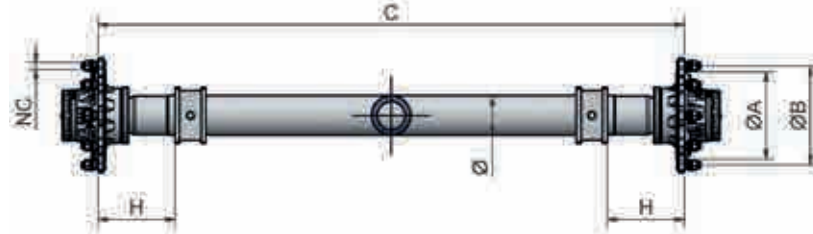
The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request

FIXED AXLES AND STUBAXLES



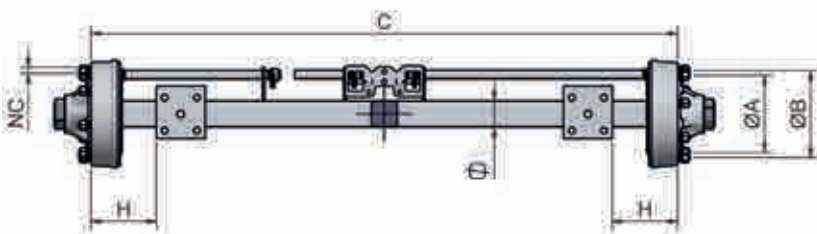
"TEKNOAX" TUBULAR AXLES

CODE	SQUARE  (in)	OVERHANG H (in)	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"						PCD		
			24 mph		37 mph		49 mph		NC	ØA (in)	ØB (in)
											
TA13H4T100...	TX 5.12	23.62	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TA15L4V100...	TX 5.91	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TA15M4Y100...	TX 5.91M	33.27	41 880	39 680	38 580	35 270	35 270	33 060	10 M22	11.02	13.19



AXLES WITH ROUND BEAM Ø127

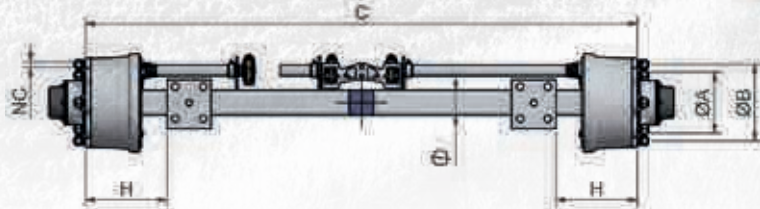
CODE	SQUARE  (in)	OVERHANG H (in)	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"						PCD		
			24 mph		37 mph		49 mph		NC	ØA (in)	ØB (in)
											
TARAM4TR00...	Ø 5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	6.89	8.86
TARAM4T100...	Ø 5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19



BRAKED AXLES - SOLID DRUM

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"								PCD		
			15 mph		24 mph		37 mph		49 mph				
	 (in)	H (in)									NC	ØA (in)	ØB (in)
Brake DA 256E 250x60 mm - 9.84x2.36"													
A60LA6DA...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA6DA...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



BRAKED AXLES - HUB AND DRUM

CODE	SQUARE □ (in)	OVERHANG H (in)	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"								PCD		
			15 mph		24 mph		37 mph		49 mph		NC	ØA (in)	ØB (in)
													

Brake FF 306E 300x60 mm - 11.81x2.36"

A60LA6FF...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA6FF...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07
A70NA6FF...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	6 M18	6.30	8.07
A70NA8FF...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83
A80NI8FF...	3.15	12.99	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83
A80QI6FF...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	6 M18	6.30	8.07
A80QI8FF...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	8 M18	8.66	10.83
A90RM6FF...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	6 M18	6.30	8.07
A90RM8FF...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	8 M18	8.66	10.83

Brake IN 309E 300x90 mm - 11.81x3.54"

A60LA6IN...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA6IN...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07
A70NA6IN...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	6 M18	6.30	8.07
A70NA8IN...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83
A80QI6IN...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	6 M18	6.30	8.07
A80QI8IN...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	8 M18	8.66	10.83
A90RM6IN...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	6 M18	6.30	8.07
A90RM8IN...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	8 M18	8.66	10.83

Brake NF 356E 350x60 mm - 13.78x2.36"

A60LA6NF...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA6NF...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07
A70NA6NF...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	6 M18	6.30	8.07
A70NA8NF...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83

Brake QF 359E 350x90 mm - 13.78x3.54"

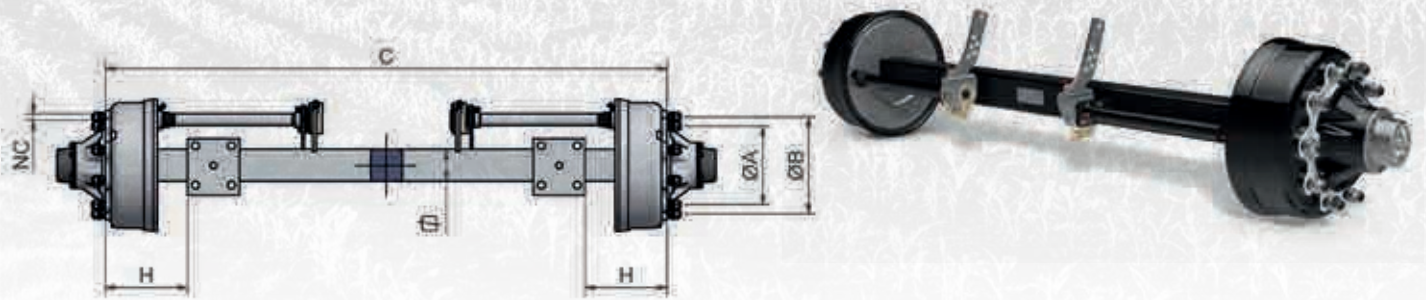
A80QI6QF..	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	13 880	12 560	6 M18	6.30	8.07
A80QI8QF..	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	13 880	12 560	8 M18	8.66	10.83
A90RM6QF..	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	6 M18	6.30	8.07
A90RM8QF..	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	8 M18	8.66	10.83
A90TN8QF..	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	8 M20	8.66	10.83
AA01R8QF...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	8 M20	8.66	10.83

The load capacities indicated in the table refer to wheels with zero offset.

For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59

Available in different body sizes upon request

FIXED AXLES AND STUBAXLES



BRAKED AXLES - HUB AND DRUM

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"								PCD		
			15 mph		24 mph		37 mph		49 mph				
	 (in)	H (in)									NC	ØA (in)	ØB (in)
Brake TC 408E 400x80 mm - 15.75x3.15"													
A80QI8TC...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	13 880	12 560	8 M18	8.66	10.83
A90RM6TC...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	6 M18	6.30	8.07
A90RM8TC...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	16 970	15 430	8 M18	8.66	10.83
A90TN8TC...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	8 M20	8.66	10.83
A90TN1TC...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	10 M22	11.02	13.19
AA01R8TC...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	8 M20	8.66	10.83
AA01R1TC...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	10 M22	11.02	13.19
Brake TE 410E 400x100 mm - 15.75x3.94"													
A90TN8TE...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	8 M20	8.66	10.83
A90TN1TE...	3.54	11.42	26 010	23 360	24 250	22 040	22 040	19 840	19 620	17 630	10 M22	11.02	13.19
AA01R1TE...	3.94	13.19	-	-	28 650	26 450	25 790	23 800	23 360	21 600	10 M22	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"													
AA5ZA1ZE...	5.91	29.33	47 170	42 320	44 090	39 680	39 680	35 710	35 710	31 960	10 M22	11.02	13.19
AA5WA1ZE...	5.91	17.72	77 160	69 440	72 750	66 130	66 130	59 520	58 860	52 910	10 M24	11.02	13.19

15 mph = 25 kmh

24 mph = 40 kmh

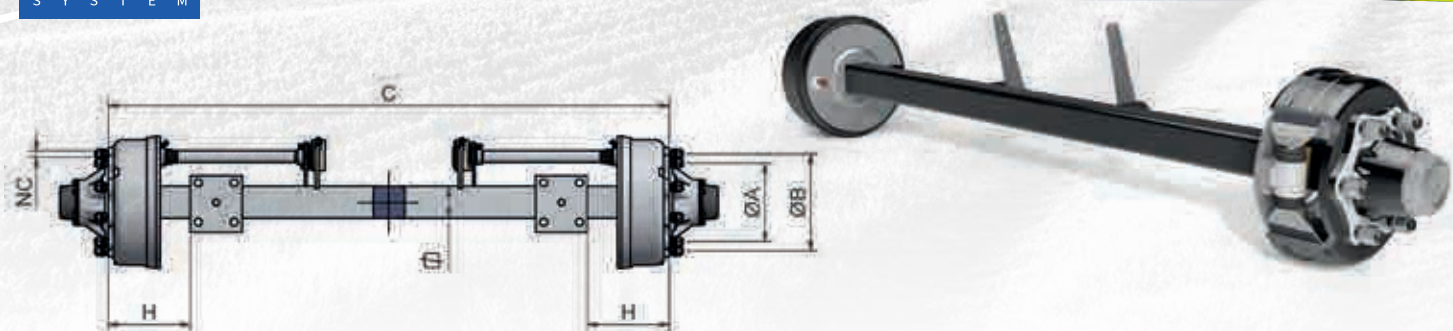
37 mph = 60 kmh

49 mph = 80 kmh

1.000 lb = 453.59 kg

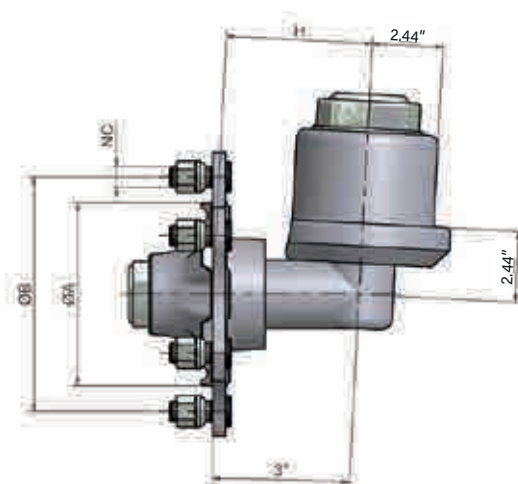
10" = 254 mm

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



HYDRAULIC BRAKE AND MECHANICAL PARKING

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"								PCD		
			15 mph		24 mph		37 mph		49 mph		NC	ØA (in)	ØB (in)
	 (in)	H (in)											
Brake IY 309H 300x90 mm - 11.81x3.54"													
A60LA6IY...	2.36	8.86	10 580	9 250	9 250	8 370	8 370	7 710	-	-	6 M18	6.30	8.07
A70MA6IY...	2.76	11.42	13 220	11 240	11 240	9 470	9 470	8 480	-	-	6 M18	6.30	8.07
A70NA6IY...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	6 M18	6.30	8.07
A70NA8IY...	2.76	8.66	15 870	14 770	14 770	13 220	13 220	11 900	-	-	8 M18	8.66	10.83
A80QI6IY...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	6 M18	6.30	8.07
A80QI8IY...	3.15	11.42	18 070	16 310	16 970	15 430	15 430	13 880	-	-	8 M18	8.66	10.83
A90RM6IY...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	6 M18	6.30	8.07
A90RM8IY...	3.54	13.58	22 040	19 840	20 280	18 730	18 730	16 970	-	-	8 M18	8.66	10.83

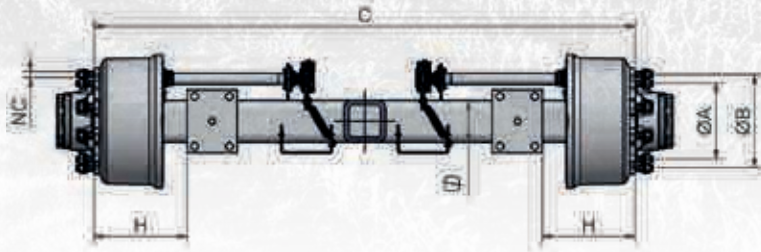


UNBRAKED STEERING Stub axles

CODE	SQUARE	CAPACITY (LB)		STUB LENGTH	PCD		
	□ (in)	15 mph	24 mph	H (mm)	NC	ØA (in)	ØB (in)
L01JA05...	2.17	3 630	3 080	5.51	5 M16	3.70	5.51
L01JA06...	2.17	3 630	3 080	5.51	6 M18	6.30	8.07
L02KA06...	2.36	4 400	3 850	5.00	6 M18	6.30	8.07
L02LA06...	2.36	5 290	4 620	4.84	6 M18	6.30	8.07

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request

FIXED AXLES AND STUBAXLES



“TEKNOAX” TUBULAR AXLES

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"						PCD		
			24 mph		37 mph		49 mph				
	 (in)	H (in)							NC	ØA (in)	ØB (in)
Brake VC 412E 406x120 mm - 15.98x4.72"											
TA13H4T1VC...	TX 5.12	23.62	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TA15L4V1VC...	TX 5.91	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TARAM4T1VC...	ø5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TARAQ4T1VC...	ø5.00x0.79	18.11	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
Brake WC 414E 406x140 mm - 15.98x5.51"											
TA13H4T1WC...	TX 5.12	23.62	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TA15L4V1WC...	TX 5.91	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TARAM4T1WC...	ø5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TARAQ4T1WC...	ø5.00x0.79	18.11	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
Brake XC 4218E 420x180 mm - 16.54x7.09"											
TA13H4T1XC...	TX 5.12	23.62	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TA15L4V1XC...	TX 5.91	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TA15M4Y1XC...	TX 150M	33.27	41 880	39 680	38 580	35 270	35 270	33 060	10 M22	11.02	13.19
TARAM4T1XC...	ø5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TARAQ4T1XC...	ø5.00x0.79	18.11	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
Brake YC 4220E 420x200 mm - 16.54x7.87"											
TA15L4V1YC...	TX 150	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TA15M4Y1YC...	TX 5.91M	33.27	41 880	39 680	38 580	35 270	35 270	33 060	10 M22	11.02	13.19
TARAM4T1YC...	ø5.00x0.63	16.34	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
TARAQ4T1YC...	ø5.00x0.79	18.11	31 960	29 760	28 880	26 670	26 450	24 250	10 M22	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"											
TA15L4V1ZE...	TX 5.91	26.38	34 610	31 960	31 080	28 880	28 430	26 230	10 M22	11.02	13.19
TA15M4Y1ZE...	TX 5.91M	33.27	41 880	39 680	38 580	35 270	35 270	33 060	10 M22	11.02	13.19

15 mph = 25 kmh

37 mph = 60 kmh

1.000 lb = 453.59 kg

24 mph = 40 kmh

49 mph = 80 kmh

10" = 254 mm

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



ADR



STEERING AXLES

STEERING AXLES FULL SECTION AND TEKNOAX

The costs of fuel and vehicle maintenance are an increasingly significant part of a transport company's operating expenses. Fuel prices directly influence transport costs, and the only way to reduce them is by improving efficiency. A steering axle greatly enhances the performance of trailers and semitrailers, reduces stress on the towing vehicle, and saves fuel.

Steering axles also help reduce tire wear and tear: carriers can drive more miles on a single set of tires and experience less downtime. Even retreaded tires can be used with improved safety.



ADR

SOLID BEAM AXLES AND SELF STEERING "TEKNOAX"

TYPE		MAX. STEERING ANGLE	CAPACITY (lb)
SMP	 	18° *	15 430 - 22 040
STP	 	18° *	24 250 - 28 650
SWP		16° *	28 650 - 35 270
SXA	 	16° *	35 270 - 48 500

SOLID BEAM AXLES AND POWER STEERING "TEKNOAX"

TYPE		MAX. STEERING ANGLE	CAPACITY (lb)
SMQ	 	18° *	15 430 - 22 040
STQ		18° *	24 250 - 28 650
SWQ	 	16° *	28 650 - 35 270
SXB	 	16° *	35 270 - 48 500

* The maximum steering depends on the type of mounting.

STEERING AXLES

“TEKNOAX” STEERING AXLES

TYPE		MAX. STEERING ANGLE	CAPACITY (lb)
STJ5		25° * (pos. Inside) 22° * (pos. Outside)	24 250 - 28 650

* The maximum steering depends on the type of mounting.

STJ5 steering fixings

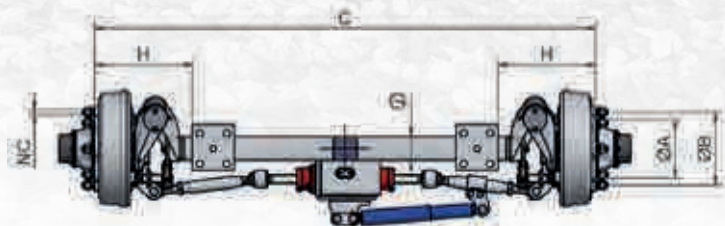
Position:
Inside. 25° max



Position:
Outside. 22° max



The capacity of the axles depends on track, spring centres and wheels used.
Available in different body sizes upon request



SMP* type

DUAL MODE

“DUAL MODE” SELF STEERING AXLES

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"				PCD		
			15 mph	24 mph	37 mph	49 mph			
	 (in)	H (in)					NC	ØA (in)	ØB (in)
Brake IN 309E 300x90 mm - 11.81x3.54"									
B590RM6IN...	3.54	13.58	19 840	18 730	16 970	15 430	6 M18	6.30	8.07
B590RM8IN...	3.54	13.58	19 840	18 730	16 970	15 430	8 M18	8.66	10.83
Brake QF 359E 350x90 mm - 13.78x3.54"									
B590RM6QF...	3.54	13.58	19 840	18 730	16 970	15 430	6 M18	6.30	8.07
B590RM8QF...	3.54	13.58	19 840	18 730	16 970	15 430	8 M18	8.66	10.83
B590TN8QF...	3.54	11.42	22 040 (-)	22 040	19 840	17 630	8 M20	8.66	10.83
Brake TC 408E 400x80 mm - 15.75x3.15"									
B590RM6TC...	3.54	13.58	19 840	18 730	16 970	15 430	6 M18	6.30	8.07
B590RM8TC...	3.54	13.58	19 840	18 730	16 970	15 430	8 M18	8.66	10.83
B590TN8TC...	3.54	11.42	22 040 (-)	22 040	19 840	17 630	8 M20	8.66	10.83
B590TN1TC...	3.54	11.42	22 040 (-)	22 040	19 840	17 630	10 M22	11.02	13.19

(-) For maximum capacity of steering axle. go to page 70

“DUAL MODE” POWER STEERING AXLES

SMQ* type

DUAL MODE

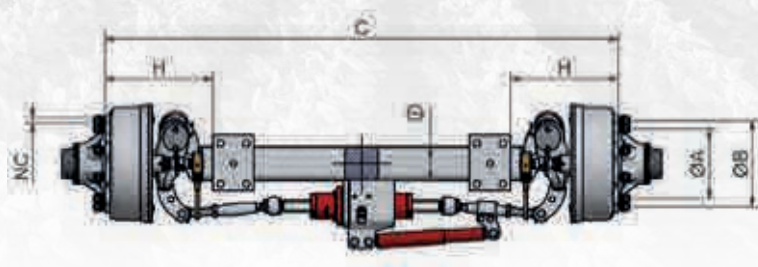
Capacities, axle beams and brakes available are identical to the ones of SMP type.
The part numbers sequence begin with "B6..."

*Available version at 0°



The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request

STEERING AXLES



STP* type

DUAL MODE



“DUAL MODE” SELF STEERING AXLES

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"				PCD		
			15 mph	24 mph	37 mph	49 mph			
	 (in)	H (in)					NC	ØA (in)	ØB (in)
Brake TC 408E 400X80 mm - 15.75X3.15"									
C7A01R8TC...	3.94	13.19	-	26 450	23 800	21 600	8 M20	8.66	10.83
C7A01R1TC...	3.94	13.19	-	26 450	23 800	21 600	10 M22	11.02	13.19
Brake TE 410E 400x100 mm - 15.75x3.94"									
C7A01R1TE...	3.94	13.19	-	26 450	23 800	21 600	10 M22	11.02	13.19

“DUAL MODE” POWER STEERING AXLES

STQ* type

DUAL MODE

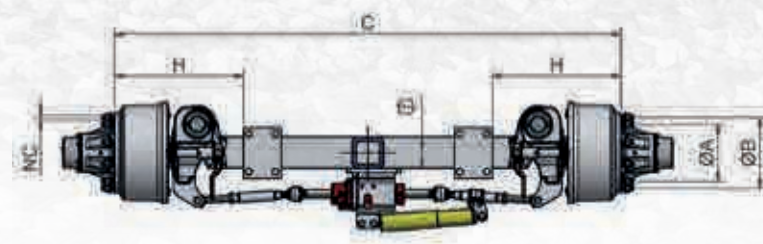
Capacities, axle beams and brakes available are identical to the ones of SMP type.
The part numbers sequence begin with "B6..."

*Available version at 0°



15 mph = 25 kmh	37 mph = 60 kmh	1.000 lb = 453.59 kg
24 mph = 40 kmh	49 mph = 80 kmh	10" = 254 mm

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



SXA type

DUAL MODE

“DUAL MODE” SELF STEERING AXLES

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"				PCD		
			15 mph	24 mph	37 mph	49 mph			
	 (in)	H (in)					NC	ØA (in)	ØB (in)
Brake XC 4218E 420x180 mm - 16.54x7.09"									
BUA5ZA1XC...	5.91	29.33	42 320	39 680	35 710	31 960	10 M22	11.02	13.19
Brake YC 4220E 420x200 mm - 16.54x7.87"									
BUA5ZA1YC..	5.91	29.33	42 320	39 680	35 710	31 960	10 M22	11.02	13.19
BUA5WA1YC..	5.91	26.57	48 500 (-)	48 500 (-)	48 500 (-)	48 500 (-)	10 M24	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"									
BUA5ZA1ZE..	5.91	29.33	42 320	39 680	35 710	31 960	10 M22	11.02	13.19
BUA5WA1ZE..	5.91	26.57	48 500 (-)	48 500 (-)	48 500 (-)	48 500 (-)	10 M24	11.02	13.19

(-) For maximum capacity of steering axle. go to page 70

“DUAL MODE” POWER STEERING AXLES

SXB type

DUAL MODE

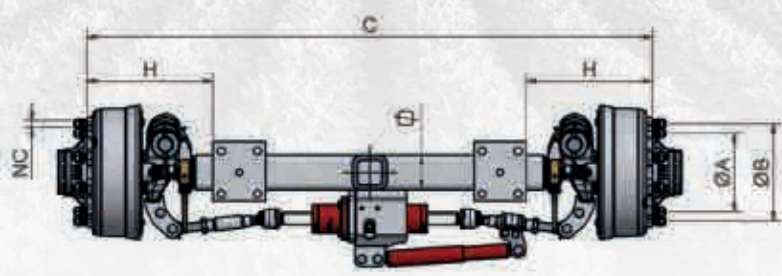
Capacities, axle beams and brakes available are identical to the ones of steerings SXA. The codes starts with the initials BV...

* Available version at 0°



The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request

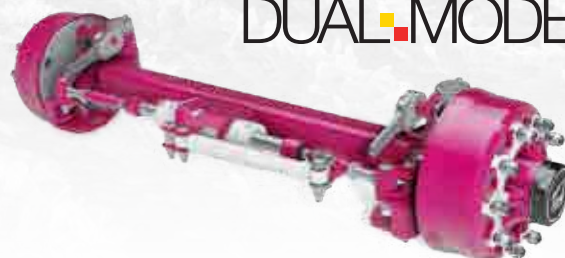
STEERING AXLES



TEKNOAX

STP* type

DUAL MODE



SELF STEERING "TEKNOAX"

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"			PCD		
			24 mph	37 mph	49 mph			
	 (in)	H (in)				NC	ØA (in)	ØB (in)
Brake VC 412E 406x120 mm - 15.98x4.72"								
TC713H4T1VC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19
Brake WC 414E 406x140 mm - 15.98x5.51"								
TC712H4R1WC...	TX 4.72 H	19.09	26 450	23 800	21 600	10 M22	11.02	13.19
TC713H4T1WC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19
Brake XC 4218E 420x180 mm - 16.54x7.09"								
TC713H4T1XC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19

(-) For maximum capacity of steering axle. go to page 70

"DUAL MODE" POWER STEERING AXLES

STQ* type

DUAL MODE

Capacities, axle beams and brakes available are identical to the ones of STP type. The part numbers sequence begin with "TC8...".

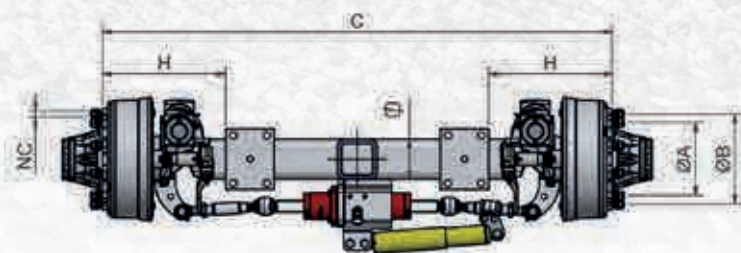
* Available version at 0°

TEKNOAX



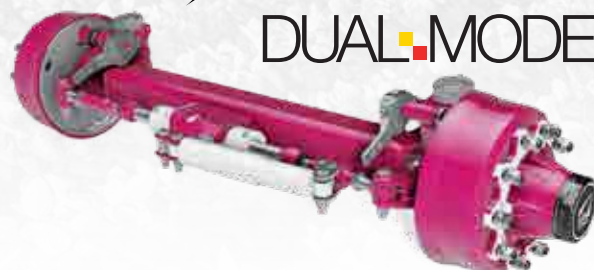
15 mph = 25 kmh	37 mph = 60 kmh	1.000 lb = 453.59 kg
24 mph = 40 kmh	49 mph = 80 kmh	10" = 254 mm

The load capacities indicated in the table refer to wheels with zero offset. For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



SWP* type

DUAL MODE



SELF STEERING "TEKNOAX"

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"			PCD		
			24 mph	37 mph	49 mph			
	 (in)	H (in)				NC	ØA (in)	ØB (in)
Brake VC 412E 406x120 mm - 15.98x4.72"								
TCG15M4V1VC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
Brake WC 414E 406x140 mm - 15.98x5.51"								
TCG15M4V1WC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
Brake XC 4218E 420x180 mm - 16.54x7.09"								
TCG15M4V1XC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
TCG15M4Y1XC...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19
Brake YC 4220E 420x200 mm - 16.54x7.87"								
TCG15M4V1YC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
TCG15M4Y1YC...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"								
TCG15M4V1ZE...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
TCG15M4Y1ZE...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19

(-) For maximum capacity of steering axle. go to page 70

"DUAL MODE" POWER STEERING AXLES

SWQ* type

DUAL MODE

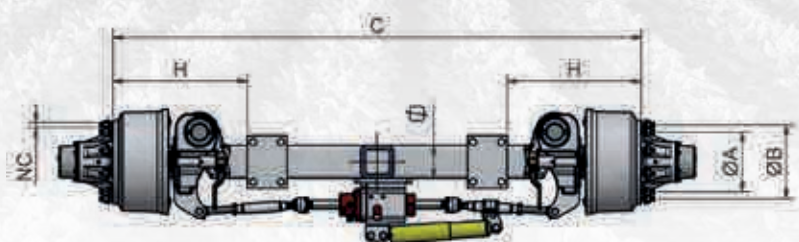
Capacities, axle beams and brakes available are identical to the ones of SWP type. The part numbers sequence begin with "TCH...".

* Available version at 0°



The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request

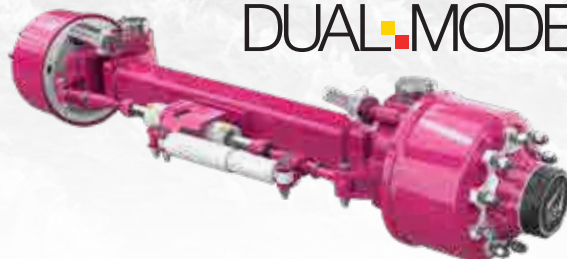
STEERING AXLES



TEKNOAX

SXA type

DUAL-MODE



SELF STEERING "TEKNOAX"

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"			PCD		
			24 mph	37 mph	49 mph			
	 (in)	H (in)				NC	ØA (in)	ØB (in)
Brake WC 414E 406x140 mm - 15.98x5.51"								
TBU15M4Y1WC...	TX 5.91 M	33.27	39 680	35 270	33 060	10 M22	11.02	13.19
Brake XC 4218E 420x180 mm - 16.54x7.09"								
TBU15M4Y1XC...	TX 5.91 M	33.27	39 680	35 270	33 060	10 M22	11.02	13.19
TBU15MZA1XC...	TX 5.91 M	29.53	39 680	35 710	31 960	10 M22	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"								
TBU15M4Y1ZE...	TX 5.91 M	33.27	39 680	35 270	33 060	10 M22	11.02	13.19
TBU15MZA1ZE...	TX 5.91 M	29.53	39 680	35 710	31 960	10 M22	11.02	13.19

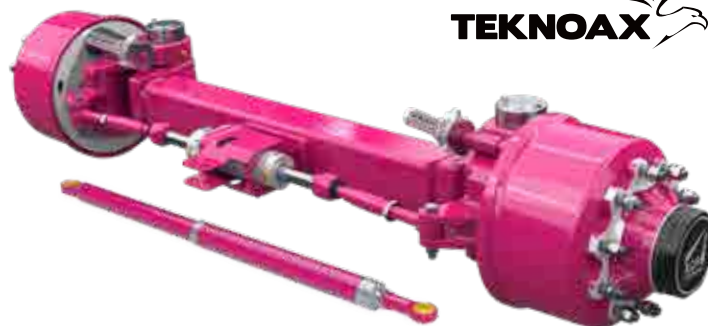
"DUAL MODE" POWER STEERING AXLES

Capacities, axle beams and brakes available are identical to the ones of SXA type. The part numbers sequence begin with "TBV...".

SXB type

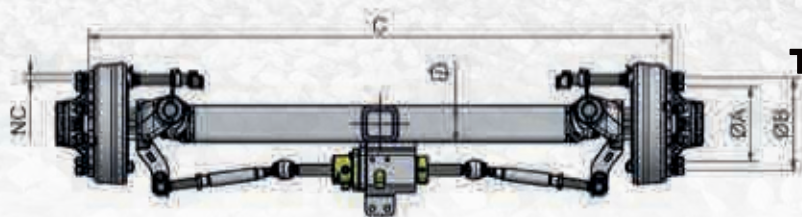
DUAL-MODE

TEKNOAX



15 mph = 25 kmh	37 mph = 60 kmh	1.000 lb = 453.59 kg
24 mph = 40 kmh	49 mph = 80 kmh	10" = 254 mm

The load capacities indicated in the table refer to wheels with zero offset.
For the use of wheels with outset or inset, please refer to the diagrams provided on pages 58-59
Available in different body sizes upon request



POWER STEERING AXLES

CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"			PCD		
			24 mph	37 mph	49 mph			
	 (in)	H (in)				NC	ØA (in)	ØB (in)
Brake VC 412E 406x120 mm - 15.98x4.72"								
TCJ13H4T1VC...	TX 5.12	23.62	28 650	26 670	24 250	10 M22	11.02	13.19
TCJ15M4V1VC...	TX 5.91 M	26.38	28 650	28 650	26 230	10 M22	11.02	13.19
Brake WC 414E 406x140 mm - 15.98x5.51"								
TCJ13H4T1WC...	TX 5.12	23.62	28 650	26 670	24 250	10 M22	11.02	13.19
TCJ15M4V1WC...	TX 5.91 M	26.38	28 650	28 650	26 230	10 M22	11.02	13.19
Brake XC 4218E 420x180 mm - 16.54x7.09"								
TCJ15M4V1XC...	TX 5.91 M	26.38	28 650	28 650	26 230	10 M22	11.02	13.19
TCJ15M4Y1XC...	TX 5.91 M	39.37	28 650	28 650	28 650	10 M22	11.02	13.19
Brake YC 4220E 420x200 mm - 16.54x7.87"								
TCJ15M4V1YC...	TX 5.91 M	26.38	28 650	28 650	26 230	10 M22	11.02	13.19
TCJ15M4Y1YC...	TX 5.91 M	39.37	28 650	28 650	28 650	10 M22	11.02	13.19
Brake ZE 5218E 520x180 mm - 20.47x7.09"								
TCJ15M4V1ZE...	TX 5.91 M	26.38	28 650	28 650	26 230	10 M22	11.02	13.19
TCJ15M4Y1ZE...	TX 5.91 M	39.37	28 650	28 650	28 650	10 M22	11.02	13.19

(-) For maximum capacity of steering axle. go to page 71

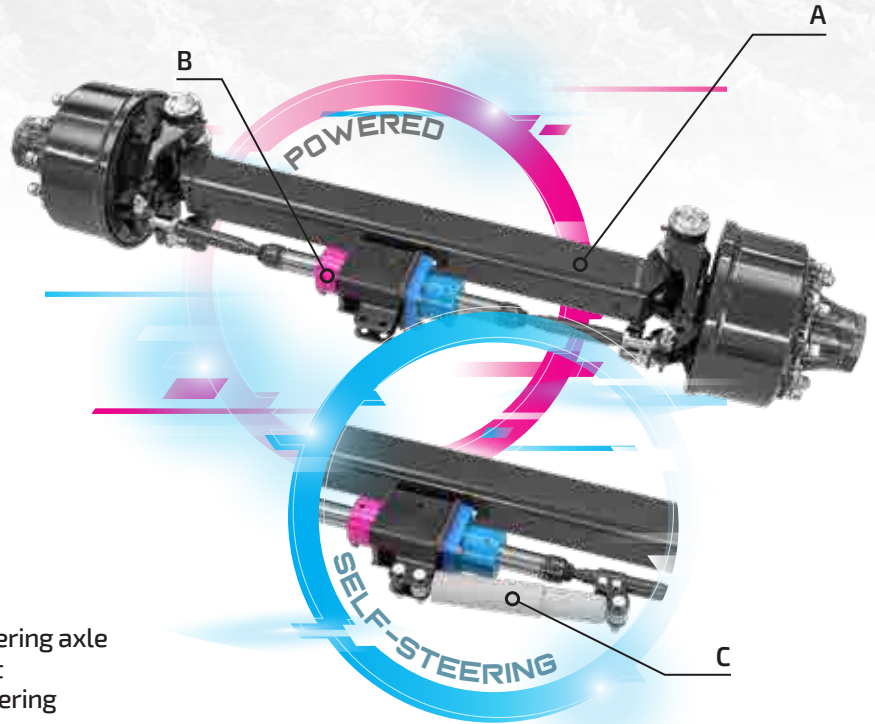
STEERING AXLES

"DUAL FUNCTION" POWERED & SELF STEERING AXLES

DUAL FUNCTION

2
in **1**

One axle. two types of steering



A

- Flexibility for the manufacturer to set up the type of steering required.

B

- Only two oil port connections for all types of steering axle
- 2 oil ports means NOT changing the piping layout and connection to change the function of the steering

C

- Shock absorber ready with specific support with 3 different positions of mounting

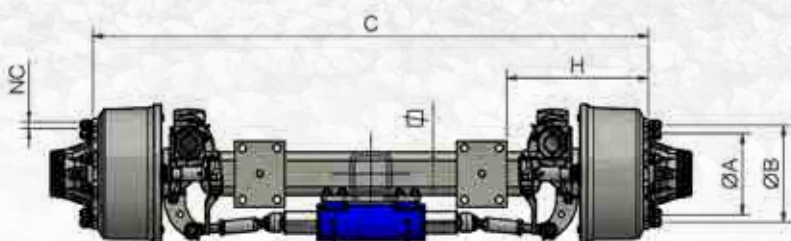
A key component



DUAL FUNCTION

TYPE		MAX. STEERING ANGLE	CAPACITY (lb)
DTP		18° *	24 250 - 28 650
DWP		16° *	28 650 - 35 270

* The maximum steering depends on the type of mounting.
The capacity of the axles depends on track, spring centres and wheels used.
Available in different body sizes upon request



DTP - DWP * type

DUAL FUNCTION



“DUAL FUNCTION” POWERED & SELF STEERING AXLES

BRAKE	CODE	SQUARE	OVERHANG	CAPACITY (lb) WITH TYRE ETO. R MAX. 23.62"			PCD		
				24 mph	37 mph	49 mph			
		 (in)	H (in)				NC	ØA (in)	ØB (in)
DUAL FUNCTION DTP type									
412E VC 406x120 mm 15.98x4.72"	TC613H4T1VC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19
414E WC 406x140 mm 15.98x5.51"	TC613H4T1WC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19
4218E XC 420x180 mm 16.54x7.09"	TC613H4T1XC...	TX 5.12	23.62	28 650 (-)	26 670	24 250	10 M22	11.02	13.19
DUAL FUNCTION DWP type									
412E VC 406x120 mm 15.98x4.72"	TCM15M4V1VC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
414E WC 406x140 mm 15.98x5.51"	TCM15M4V1WC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
4218E XC 420x180 mm 16.54x7.09"	TCM15M4V1XC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
	TCM15M4Y1XC...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19
4220E YC 420x200 mm 16.54x7.87"	TCM15M4V1YC...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
	TCM15M4Y1YC...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19
5218E ZE 520x180 mm 20.47x7.09"	TCM15M4V1ZE...	TX 5.91 M	26.38	31 960	28 880	26 230	10 M22	11.02	13.19
	TCM15M4Y1ZE...	TX 5.91 M	33.27	35 270 (-)	35 270	33 060	10 M22	11.02	13.19

(-) According to page 79. maximum capacity of steering axle

** Version available at 0° on request

DRAWBAR CYLINDER FOR “DUAL FUNCTION” AXLES

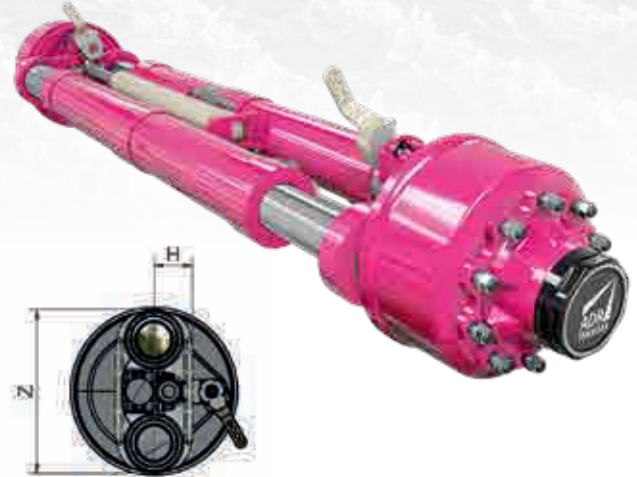
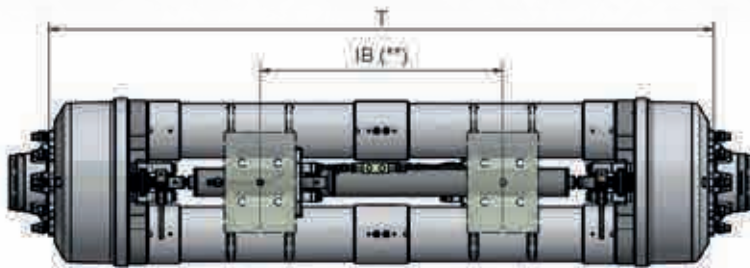


COD. 8128050001

The capacity of the axles depends on track, spring centres and wheels used.
Available in different body sizes upon request

SPECIAL AXLES

SPECIAL AXLE



EXTENDABLE TRACK AXLES

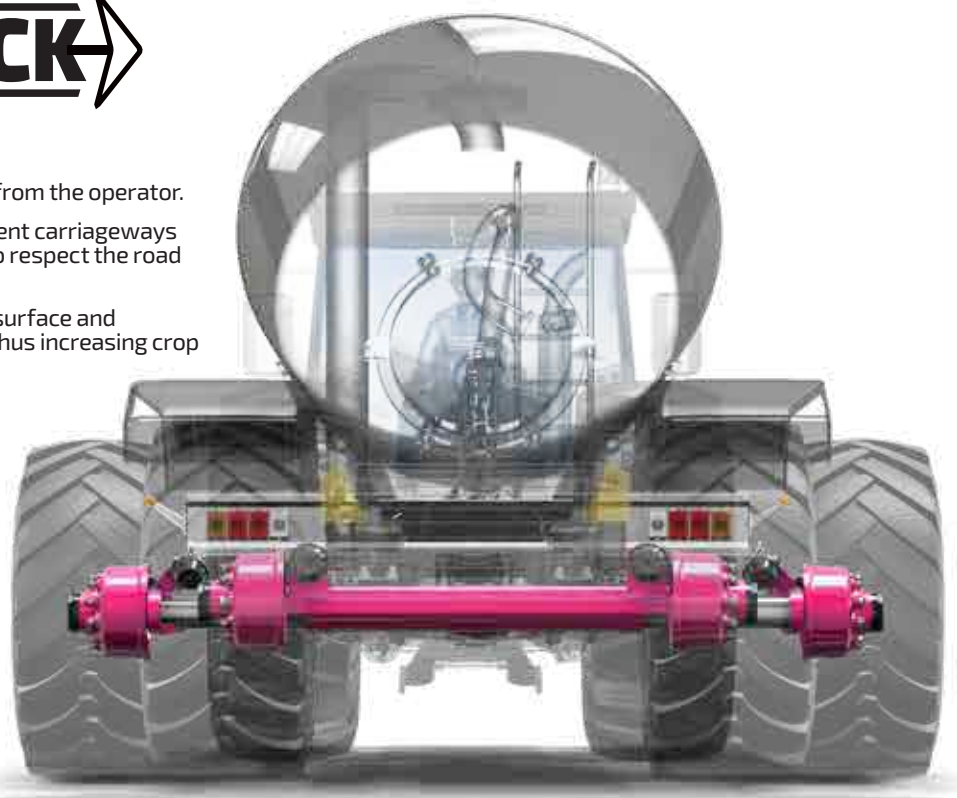
CODE	BRAKE		AXLE CAPACITY	BRAKE CAPACITY	WHEEL		IB (**)		H	Z	T MIN. / MAX.
					MIN.	MAX.	MIN.	MAX.			
	mm	in	lb	lb	in	in	in	in	in	in	in
TVB904Y1XC...	420x180	16.54x7.09	30 860 max (*)	24 250	17.64	22.05	33.46	44.49	5.31	22.44	89.76 / 145.67
TVB904Y1ZE...	520x180	20.47x7.09	30 860 max (*)	30 860	21.06	26.34	33.46	44.49	5.31	22.44	91.73 / 147.64

(*) Maximum load depending on the wheel. speed and assembly of the trailer.

(**) Possibility to have the fixing plates to the trailer chassis.



- Track variation is independent, with no input from the operator.
- The possibility to choose between two different carriageways allows, when the axle is completely closed, to respect the road traffic restrictions.
- When fully opened, greater attention on soil surface and compaction. Ground pressure is distributed, thus increasing crop yield.



POWERED AXLE

Drive Axle in Agriculture: More Traction. More Efficiency

At ADR, we believe that innovation must always translate into real benefits for those who work the land.

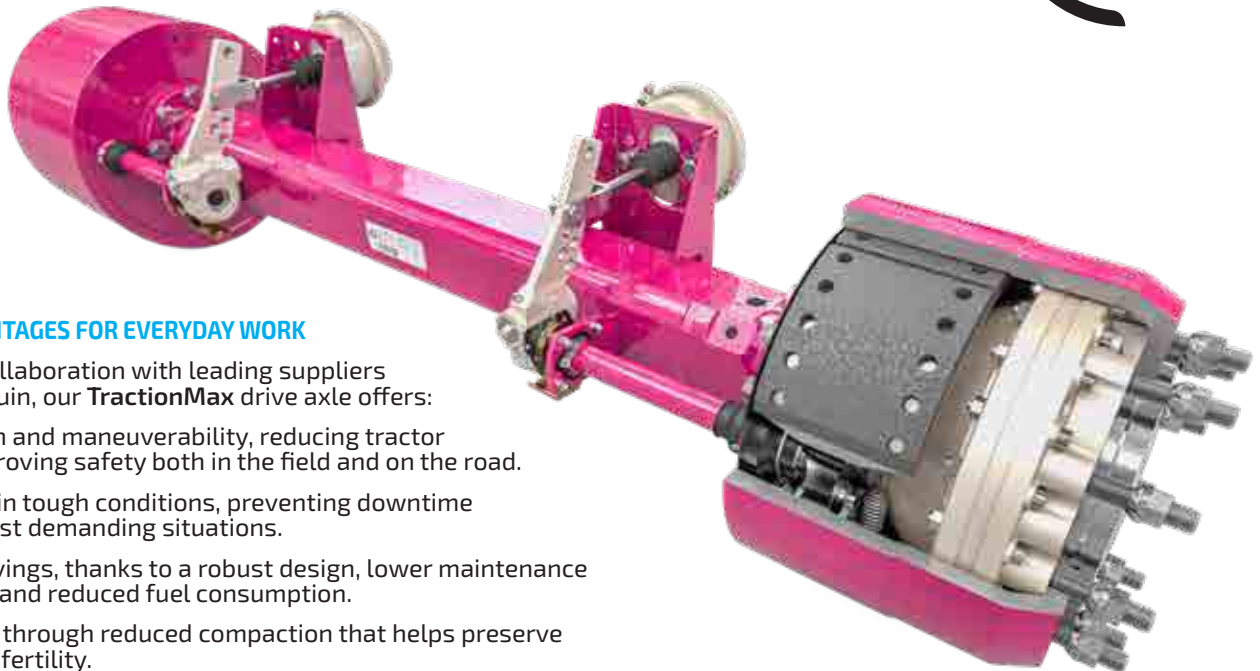
That's why today, in addition to our range of agricultural axles, we can offer farmers and manufacturers a technology that is transforming the sector: our **TractionMax** drive axle.

More Power Where It's Needed

TractionMax drive axles integrates a hydraulic motor directly on the wheel axle, providing additional traction independent of the tractor. This allows trailers and agricultural equipment to move easily even on muddy, sandy, or sloping terrain.

The result is clear: **less slippage, greater stability, and superior machine control.**

TRACTION MAX

CONCRETE ADVANTAGES FOR EVERYDAY WORK

Thanks to our collaboration with leading suppliers such as Black Bruin, our **TractionMax** drive axle offers:

- Greater traction and maneuverability, reducing tractor effort and improving safety both in the field and on the road.
- High reliability in tough conditions, preventing downtime even in the most demanding situations.
- Operational savings, thanks to a robust design, lower maintenance requirements, and reduced fuel consumption.
- Soil protection, through reduced compaction that helps preserve long-term soil fertility.
- Optimized working seasons, as the additional traction allows multiple operations to be combined in a single pass, reducing weather dependency.

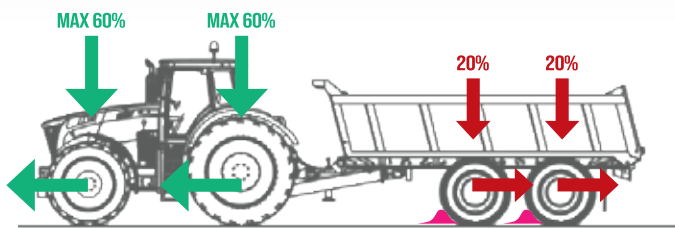


POWERED AXLE

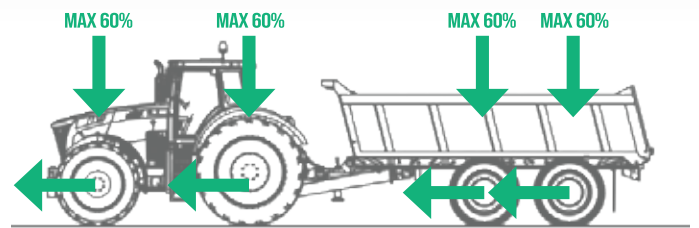
TRACTION
MAX



WITHOUT AXLE MOTORISED



WITH 2 AXLE MOTORISED

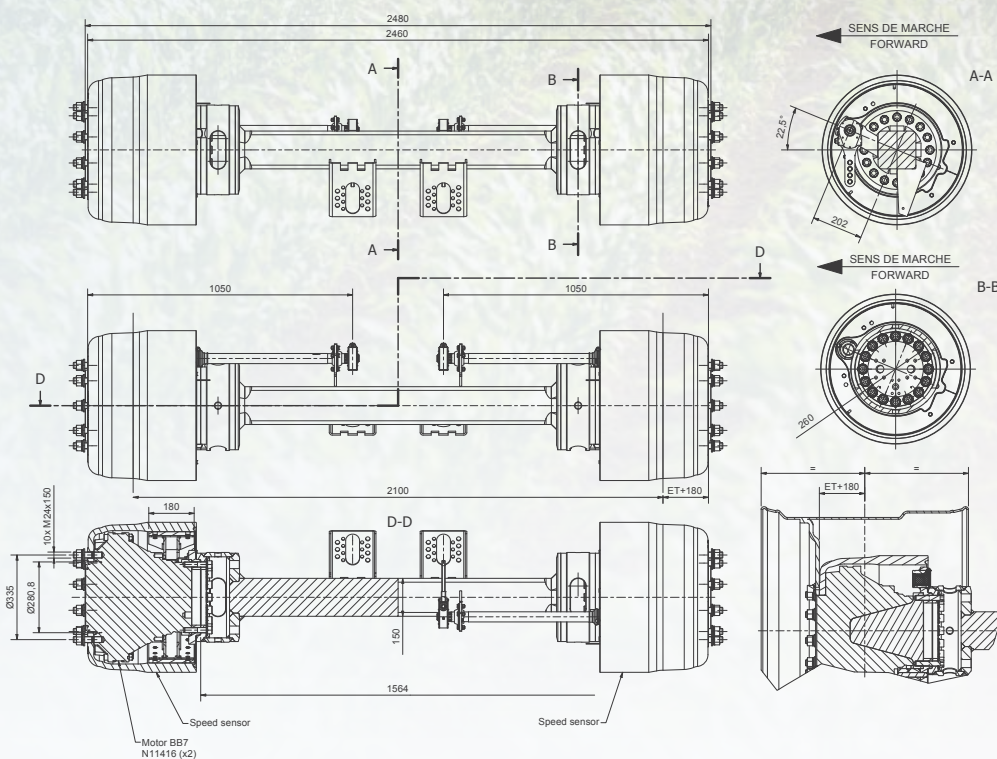


POWERED AXLE

OUR PROPOSAL

TractionMax Drive axle is not just a technical detail – they are a strategic investment for those who aim to increase productivity and sustainability.

At ADR, we make them directly available by integrating them into our solutions and providing technical support for manufacturers and reliability for farmers. It's a concrete step toward a more modern, efficient, and soil-friendly agriculture.



CODE	SQUARE	ENGINE	MAX LOAD	MOTOR DISPLACEMENT	MAX POWER	PCD		
	mm		kg	cm ³	kw	NC	ØA (mm)	ØB (mm)
Brake 359M								
MA080B58Q1....	80 solid beam	B250	9 000	1 000 / 1 250 / 1 600	100	8 x M20x1.50	221	275
MA090B58Q1....	90 solid beam	B250	9 000	1 000 / 1 250 / 1 600	100	8 x M20x1.50	221	275
MA100B58Q1....	100 solid beam	B250	9 000	1 000 / 1 250 / 1 600	100	8 x M20x1.50	221	275
MA10HB58Q1....	100 solid beam	B250	9 000	1 000 / 1 250 / 1 600	100	8 x M20x1.50	221	275
Brake 4218M								
MA15MB61X1....	150 Teknoax	BM60	14 000	2 000 / 2 500 3 150 / 3 500	180	10 x M22x1.50	281	335
Brake 5216M								
MA150B71Z1	150 solid beam	B270	20 000	3 600 / 4 000 / 5 000 6 300 / 6 700	206	10 x M24x1.50	281	335

100 mm = 3.94 in 1 000 kg = 2.204.62 lbs
1 000 kw = 1340 hp 1 000 cm³ = 1 L = 61.02 in³

BOGIES

The range of ADR bogies is the “turnkey solution” for the suspensions of the agricultural machinery.

Bogies are delivered fully assembled with the axles ready to be fitted to the trailer. ADR can also supply, on request, the fixing plates for your chassis. Every bogie is available both in standard and underslung version. Though the underslung version is usually fit for low loaders, nevertheless can be successfully adapted to all kinds of trailers, to improve their stability in braking. Our technical department is at your disposal for further information.

The range includes:

- Multi leaf spring bogies with carrying capacity from 17 630 to 61 720 lbs
- Parabolic spring bogies with carrying capacity from 17 630 to 61 720 lbs
- Available for wheelbase from 36.22 to 71.65"

The brackets can be delivered:

- with holes
- with holes and counter-plate including bolts and nuts

The brackets type L can be supplied only in drilled version, with counter-plate including bolts and nuts.



ADR

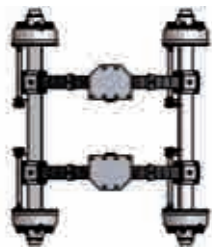
IDENTIFICATION

CUSTOMER CODE	PRODUCTION LOT
G1E4670013	20200305
CPP890	C80001
40Km/h 60Km/h	
17500	
LOADED RH = 113 mm	WB = 1200 mm
ADR CODE	CAPACITY (kg)
A 01	
PRODUCTION SITE	
RIDE HEIGHT	WHEELBASE

G1 B 2 06 N 0000

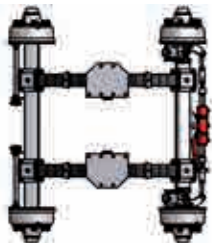
Bogie type

G1 = 2 Fixed axles



G2 = 1 Front fixed axle + self steering axle

G3 = 2 Self steering axle



G4 = 1 Rear fixed axle + self steering axle

Mounting type

N = Standard

R = Underslung

Type of spring



Type of middle support

2 = With holes



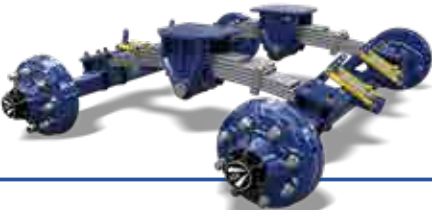
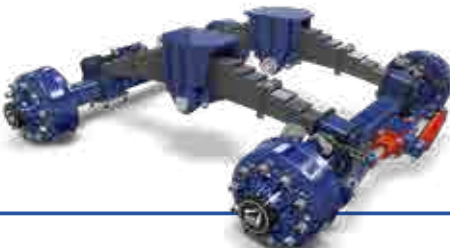
4 = With holes and counterplate including bolts and nuts



B = Middle support model



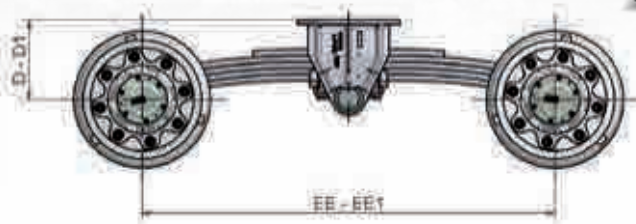
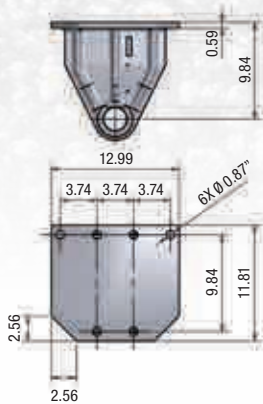
BOGIES

TYPE		CAPACITY	
		G..B	G..B
B 5139 5159		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		8000 – 13000 kg	17 630 – 28 660 lbs
		□ 70/80/90 mm	□ 2.76 / 3.15 / 3.54"
C 5145 5165		G..C	G..C
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		11500 – 16000 kg	25 350 – 35 270 lbs
		□ 80/90/100 mm	□ 3.15 / 3.54 / 3.94"
D 5140 5160		G..D	G..D
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		13500 – 15000 kg	29 760 – 33 060 lbs
		□ 80/90/100	□ 3.15 / 3.54 / 3.94"
E 5150 5170		G..E	G..E
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		15500 – 17500 kg	34 170 – 38 580 lbs
		□ 90/100 mm	□ 3.54 / 3.94"
I 5149 5169		G..I	G..I
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		17500 – 21500 kg	38 580 – 47 390 lbs
		□ 100/120/130 mm	□ 3.94 / 4.72 / 5.12"
K 5147 5167		G..K	G..K
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		18500 – 22000 kg	40 780 – 48 500 lbs
		□ 100/120/130 mm	□ 3.94 / 4.72 / 5.12"
L 5144 5164		G..L	G..L
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		23000 – 28000kg	50 700 – 61 720 lbs
		□ 120/130/150 mm	□ 4.72 / 5.12 / 5.91"
AY		G..A / G..Y	G..A / G..Y
		STANDARD UNDERSLUNG	STANDARD UNDERSLUNG
		24000 kg	52 910 lbs
		150 mm	5.91"

Full range of products and custom variants available upon request.

BOGIE

type **D** (5140/5160)
(G35)



STANDARD

C	EE	LF		Q = 80 mm - 3.15"			Q = 90 mm - 3.54"			Q = 100 mm - 3.94"		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
lb	in			in	in	in	in	in	in	in	in	in
29.760	51.97	4112003 (R120P551)	5 x 0.79" (3 LM)	12.20	10.83	50.91	12.40	11.02	50.83	-	-	-
33.060	47.24	4112003 (R120P551)	5 x 0.79" (3 LM)	-	-	-	11.93	10.83	46.22	12.13	11.02	46.10



UNDERSLUNG

C	EE	LF		Q = 80 mm - 3.15"			Q = 90 mm - 3.54"			Q = 100 mm - 3.94"		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
lb	in			in	in	in	in	in	in	in	in	in
29.760	51.97	4112003 (R120P551)	5 x 0.79" (3 LM)	5.51	4.13	53.03	5.31	3.94	53.11	-	-	-
33.060	47.24	4112003 (R120P551)	5 x 0.79" (3 LM)	-	-	-	4.84	3.74	48.27	4.65	3.54	48.39

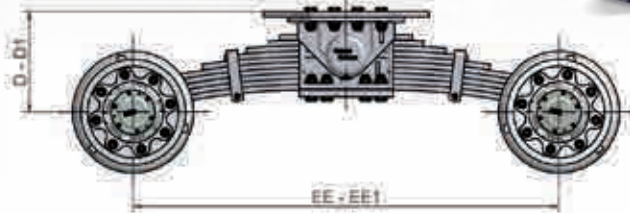
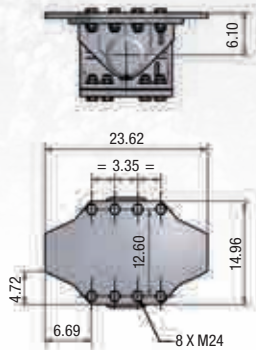
C = CAPACITY
EE = WHEELBASE
LF = LEAF SPRING
Q = AXLE TYPE (SQUARE BEAM)
D = HEIGHT WHEN EMPTY
D1 = HEIGHT WHEN LOADED
EE1 = WHEELBASE WHEN EMPTY

Full range of products and custom variants
available upon request.

BOGIES

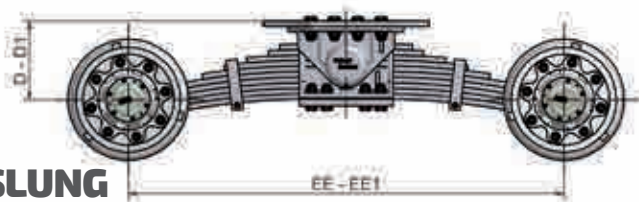
BOGIE

type **L** (5144/5164)
(G70)



STANDARD

C	EE	LF		Q = 120 mm - 4.72"			Q = 130 mm - 5.12"			Q = 150 mm - 5.91"		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
lb	in			in	in	in	in	in	in	in	in	in
50.700	66.93	4112012 (R120P525)	11 x 0.79" (4 LM)	18.27	15.79	66.50	18.58	16.10	66.42	18.98	16.50	66.26
50.700	71.65	4112021 (R120P562)	8 x 0.98" (4 LM)	-	-	-	18.15	15.87	71.46	18.54	16.26	71.30
52.910	59.06	4112009 (R120P278)	10 x 0.79" (4 LM)	17.17	15.20	59.49	17.36	15.39	59.37	17.76	15.79	59.21
55.110	62.99	4112012 (R120P525)	11 x 0.79" (4 LM)	17.83	15.63	62.56	18.15	15.94	62.48	18.54	16.34	62.32
57.310	59.06	4112014 (R120P532)	11 x 0.79" (7 LM)	17.95	16.02	59.57	18.15	16.22	59.49	18.54	16.61	59.33
57.310	66.93	4112017 (R120P546)	8 x 0.98" (4 LM)	-	-	-	17.80	15.83	66.42	18.19	16.22	66.26
57.310	71.65	4112020 (R120P561)	9 x 0.98" (4 LM)	-	-	-	19.13	17.17	71.46	19.53	17.56	71.30
61.720	62.99	4112017 (R120P546)	8 x 0.98" (4 LM)	-	-	-	17.36	15.63	62.48	17.76	16.02	62.32



UNDERSLUNG

C	EE	LF		Q = 120 mm - 4.72"			Q = 130 mm - 5.12"			Q = 150 mm - 5.91"		
				D	D1	EE1	D	D1	EE1	D	D1	EE1
lb	in			in	in	in	in	in	in	in	in	in
50.700	66.93	4112012 (R120P525)	11 x 0.79" (4 LM)	9.29	6.81	69.25	9.21	6.73	69.33	8.86	6.38	69.49
50.700	71.65	4112021 (R120P562)	8 x 0.98" (4 LM)	-	-	-	8.03	5.75	74.57	7.64	5.35	74.72
52.910	59.06	4112009 (R120P278)	10 x 0.79" (4 LM)	8.23	6.26	62.36	8.03	6.06	62.48	7.64	5.67	62.64
55.110	62.99	4112012 (R120P525)	11 x 0.79" (4 LM)	8.90	6.69	65.31	8.82	6.61	65.39	8.43	6.22	65.55
57.310	59.06	4112014 (R120P532)	11 x 0.79" (7 LM)	6.57	4.65	62.24	6.42	4.49	62.32	6.02	4.09	62.48
57.310	66.93	4112017 (R120P546)	8 x 0.98" (4 LM)	-	-	-	7.64	5.67	69.41	7.24	5.28	69.57
57.310	71.65	4112020 (R120P561)	9 x 0.98" (4 LM)	-	-	-	9.02	7.05	74.57	8.62	6.65	74.72
61.720	62.99	4112017 (R120P546)	8 x 0.98" (4 LM)	-	-	-	7.24	5.51	65.47	6.85	5.12	65.63

C = CAPACITY
EE = WHEELBASE
LF = LEAF SPRING
Q = AXLE TYPE (SQUARE BEAM)
D = HEIGHT WHEN EMPTY
D1 = HEIGHT WHEN LOADED
EE1 = WHEELBASE WHEN EMPTY

Full range of products and custom variants
available upon request.

Agricultural Walking Beam Suspensions

Agricultural walking beam suspensions are a proven and highly reliable solution for heavy-duty applications, engineered to provide strength, stability, and optimal load distribution even under the most demanding operating conditions.

Widely used on **agricultural trailers and field transport equipment**, walking beam suspensions ensure **uniform load sharing across multiple axles**, improving vehicle stability and maintaining proper tire-to-ground contact on uneven, muddy, or unprepared terrain. The system's mechanical articulation allows the vehicle to adapt to ground irregularities, reducing stress transmitted to the chassis, axles, and suspension components.

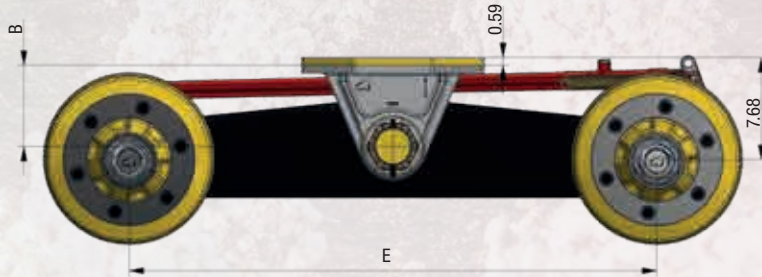
The **geometry of the walking beam assembly** is designed according to key parameters such as **track width, axle spacing (E.A.B.), and rear overhang**, enabling **customized solutions** for a wide range of agricultural vehicle configurations and specific application requirements.

Manufactured from **high-strength materials** and engineered to withstand heavy loads and intensive duty cycles, walking beam suspensions deliver **structural reliability, consistent performance, and long service life** while helping reduce maintenance costs over time.

The **walking beam range** is available in multiple configurations to accommodate different axle arrangements and suspension systems, ensuring **maximum compatibility** for both **OEM applications and retrofit installations** on existing agricultural trailers.

		MODEL / CAPACITY	
		BENT ROCKER BEAMS	
		9 000 kg ☐ 80 mm 11 000 kg ☐ 80 mm	19 840 lbs ☐ 3.15" 24 250 lbs ☐ 3.15"
		CUT ROCKER BEAMS	
		12 000 kg ☐ 80 mm 14 000 kg ☐ 90 mm 16 000 kg ☐ 100 mm	26 450 lbs ☐ 3.15" 30 860 lbs ☐ 3.54" 35 270 lbs ☐ 3.94"
		HEAVY-DUTY CUT ROCKER	
		22 000 kg ☐ r110 mm	48 500 lbs ☐ r4.33"

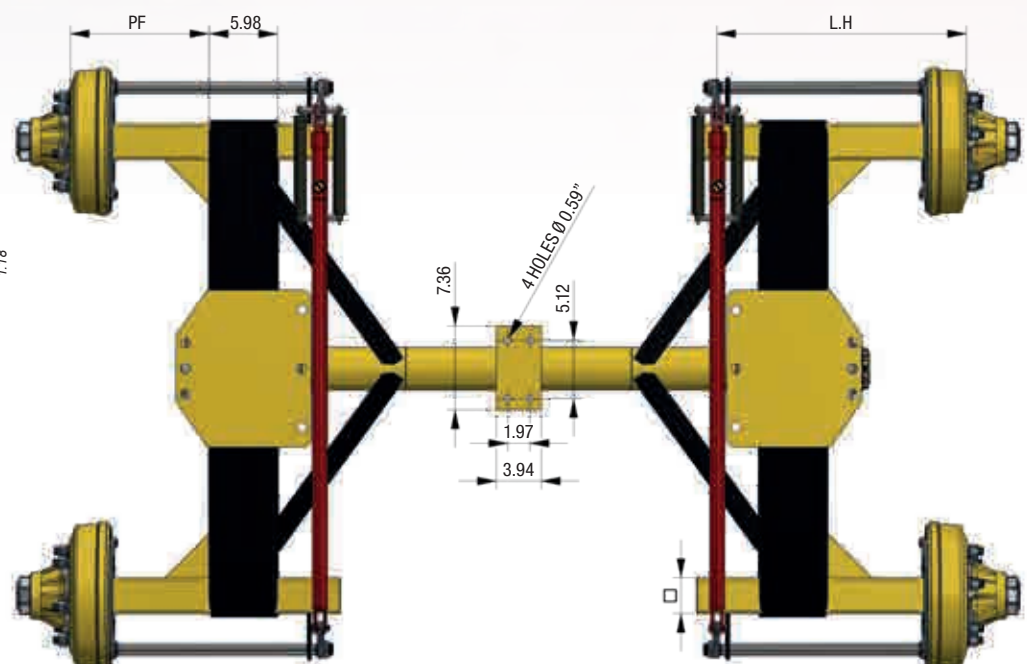
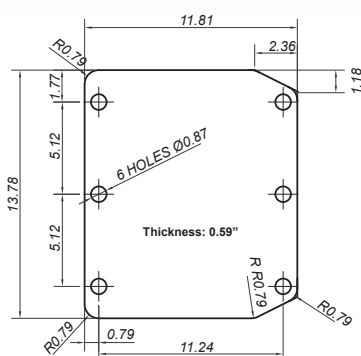
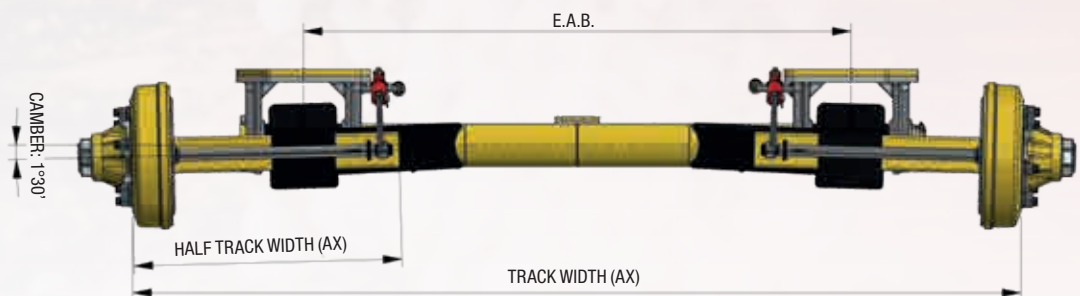
WALKING BEAM

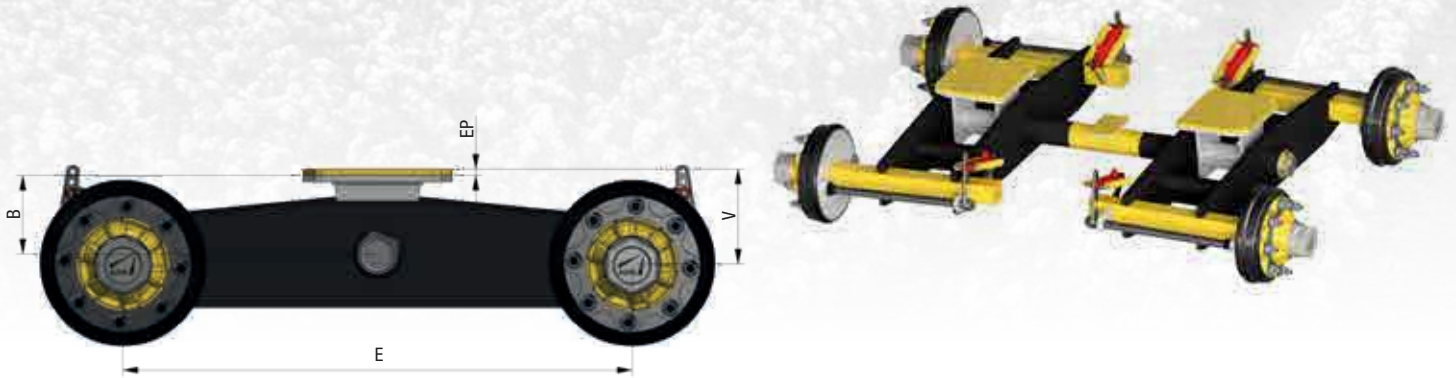


BENT ROCKER BEAMS

LOAD	SQUARE	AXLES	E	REAR OVERHANG STANDARD	TRACK	B	EAB	V	EP
LB	in		in	in	in	in	in	in	in
19 840	3.15	6	39.76 / 46.46	6.10	10.24	74.80	48.35	-	-
24 250	3.15	6	46.46	6.10	12.20	82.68	52.28	-	-

Centre-to-centre rocker beam distance (E.A.B.) depends on track width (AX) and rear overhang:
 $E.A.B. = AX - [152 + (2 \times \text{rear overhang})]$

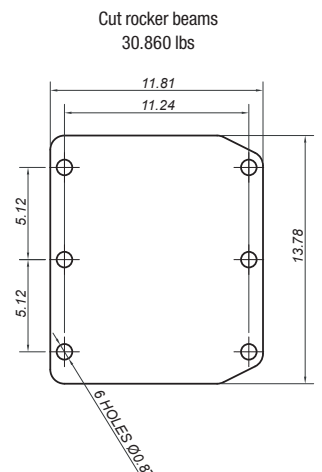
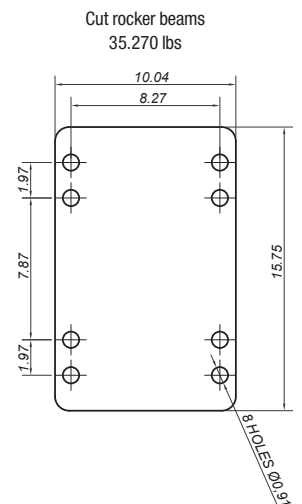
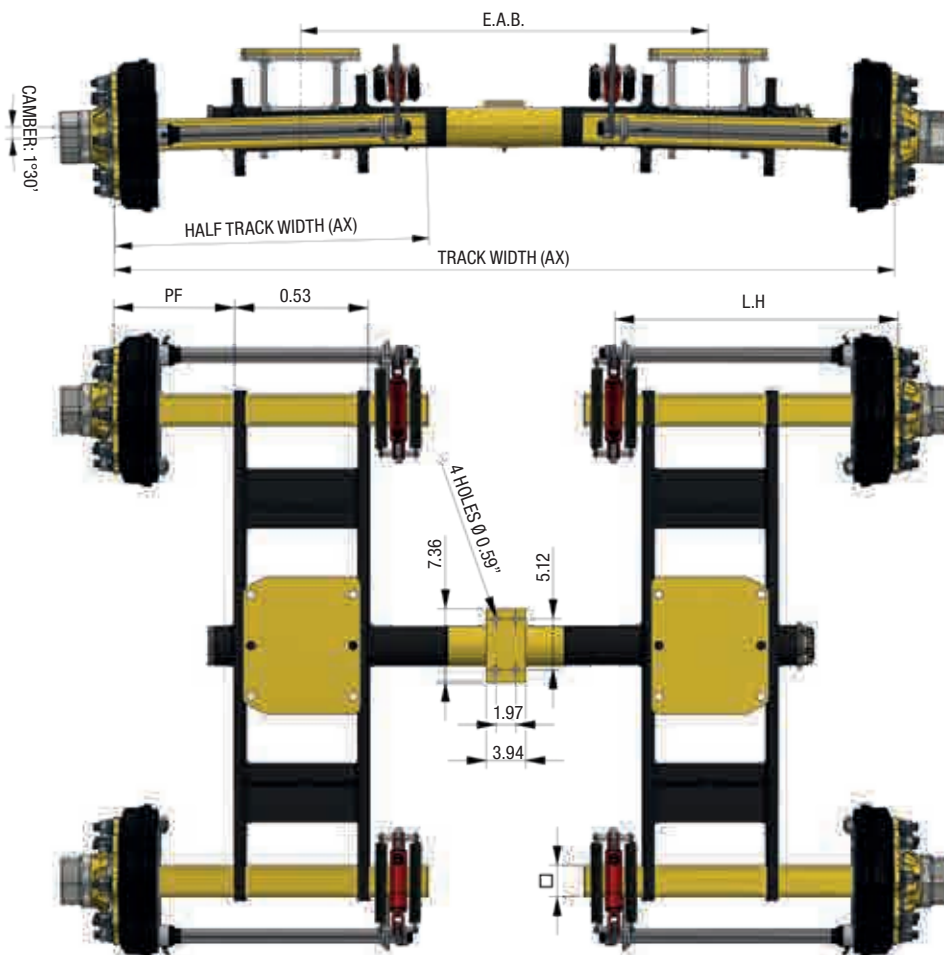




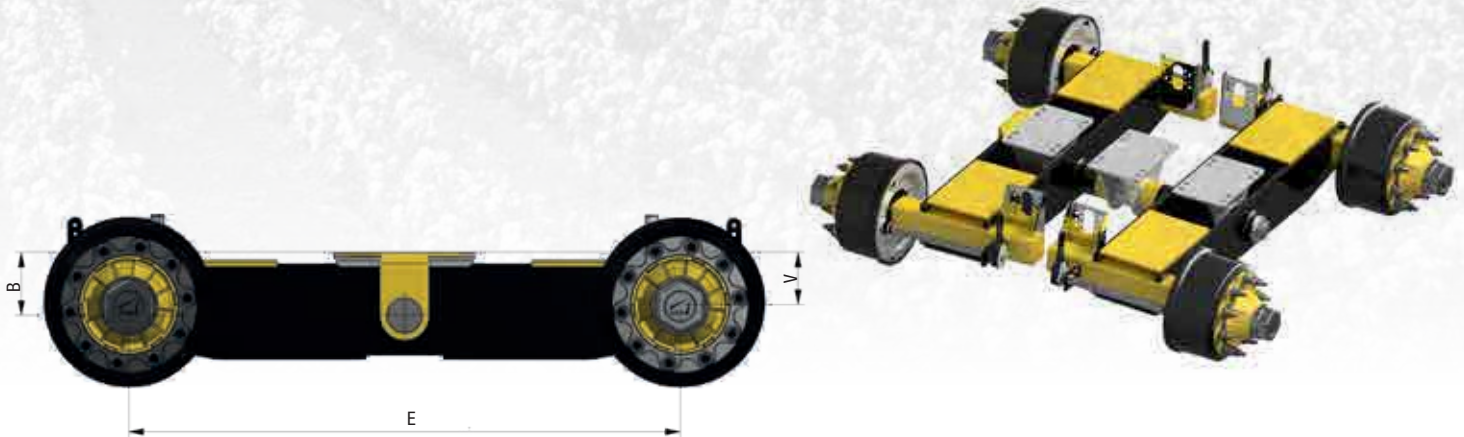
CUT ROCKER BEAMS

LOAD	SQUARE	AXLES	E	REAR OVERHANG STANDARD	TRACK	B	EAB	V	EP
LB	in		in	in	in	in	in	in	in
26 450	3.15	8	47.24	12.20	74.80	7.28	37.01	8.27	0.59
30 860	3.54	8	47.24	12.20	78.74	7.28	40.94	8.27	0.59
35 270	3.94	10	55.12	15.75	82.68	7.48	37.80	6.10	0.47

Centre-to-centre rocker beam distance (E.A.B.) depends on track width (AX) and rear overhang:
 $E.A.B. = AX - [152 + (2 \times \text{rear overhang})]$



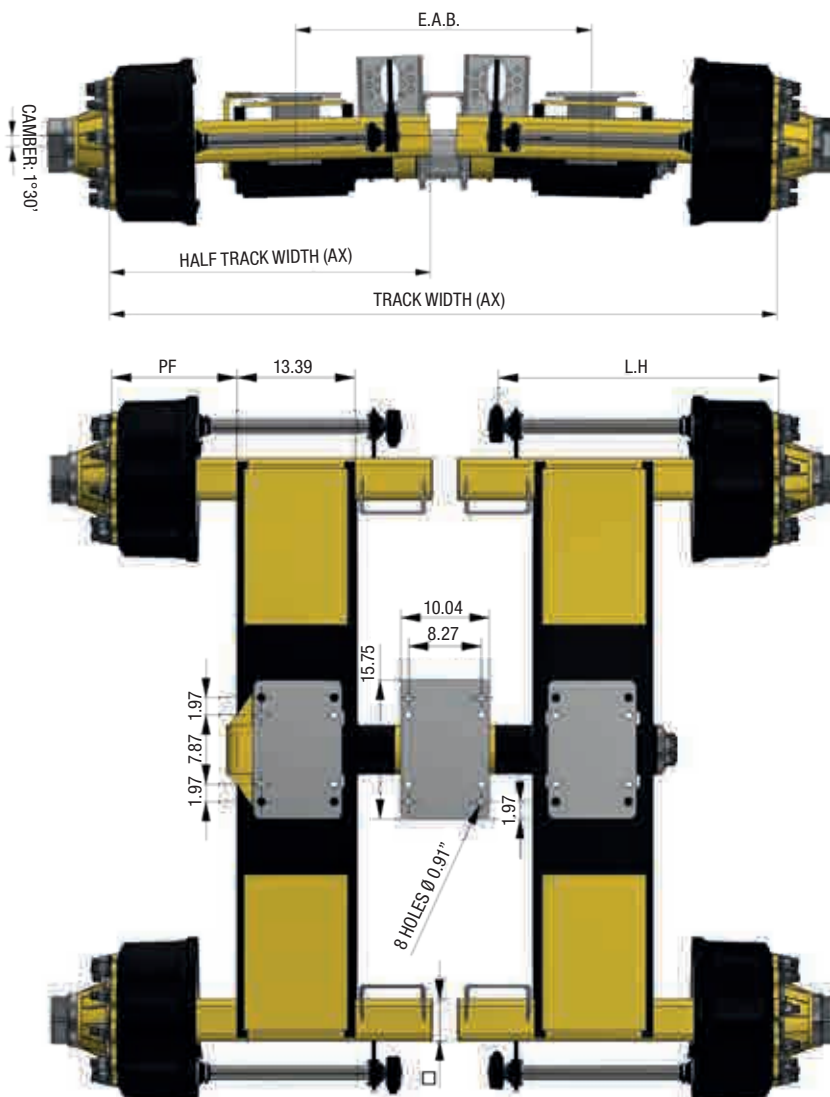
WALKING BEAM



HEAVY-DUTY CUT ROCKER

LOAD	SQUARE	AXLES	E	REAR OVERHANG STANDARD	TRACK	B	EAB	V	EP
LB	in		in	in	in	in	in	in	in
48 500	r4.33	10	55.12	12.80	78.74	7.48	39.76	6.22	-

Centre-to-centre rocker beam distance (E.A.B.) depends on track width (AX) and rear overhang:
 $E.A.B. = AX - [152 + (2 \times \text{rear overhang})]$



MECHANICAL SUSPENSIONS

MECHANICAL SUSPENSIONS WITH PARABOLIC LEAF SPRINGS

The ADR group range represents the simplest and most versatile solution in the field of mechanical suspensions. All suspension joints and reaction bar hinges are made with conical elastic bushings that ensure maximum reliability with minimum maintenance.

All the brackets for assembly to the chassis of the vehicle are short and rigid in order to reduce torsion reactions when turning.

The high modularity meets all the requirements of the vehicles of manufacturers, without the need to store large stocks of spares.

The range includes:

- | | |
|----------------------|----------------------------|
| • Single suspensions | from 11 020 to 35 270 lbs |
| • Tandem suspensions | from 22 040 to 70 540 lbs |
| • Tridem suspension | from 52 910 to 105 820 lbs |

Standard wheelbase from 35.83 to 72.83" with 2, 3 or 4 leaf parabolic springs 2.99, 3.15 and 3.94" wide.

The following pages show the range KA, KD, KE, KB, KW exposed in kit version with the following features:

KA and KD: parabolic spring 3.15 and 3.94" wide, simplified version for agricultural machinery.

KE and KB: parabolic spring suspension, 2.99 and 3.94" wide, with torque arms, to fit medium and heavy trailers at speed over 24 mph.

KW: is the heavy-duty version of KB range, with 3.94" wide springs.

Warning

In this catalogue both the unladen (A) and laden height (B) are marked. These heights always refer to a horizontal vehicle.

On semitrailers the angle of the chassis plays an important part on both tandem and tridem suspensions, reducing the equalizer movement, causing the equalizer to strike the frame in uneven road conditions. In this case the slope of the laden chassis must be accurately evaluated and packing pieces must be added to the spring seats. Standard 1.18" spacers are available.

Alternatively a tapered spacer can be welded between the hanger bracket and the main frame: tapered spacers are not standard pieces and are not supplied with the kits.

Extra attention must be given with tridem setup, because the angle must be compensated on three brackets: only an accurate calculation of the required packings assures the right distribution of weight on the axles and long life of tyres.

Further attention is required, if one or more of the axles is a self-steering unit. Please don't hesitate to ask our technical department for details.

MECHANICAL SUSPENSIONS

MECHANICAL SUSPENSIONS SUPPLIED IN KIT 'K'

PRE-ASSEMBLY

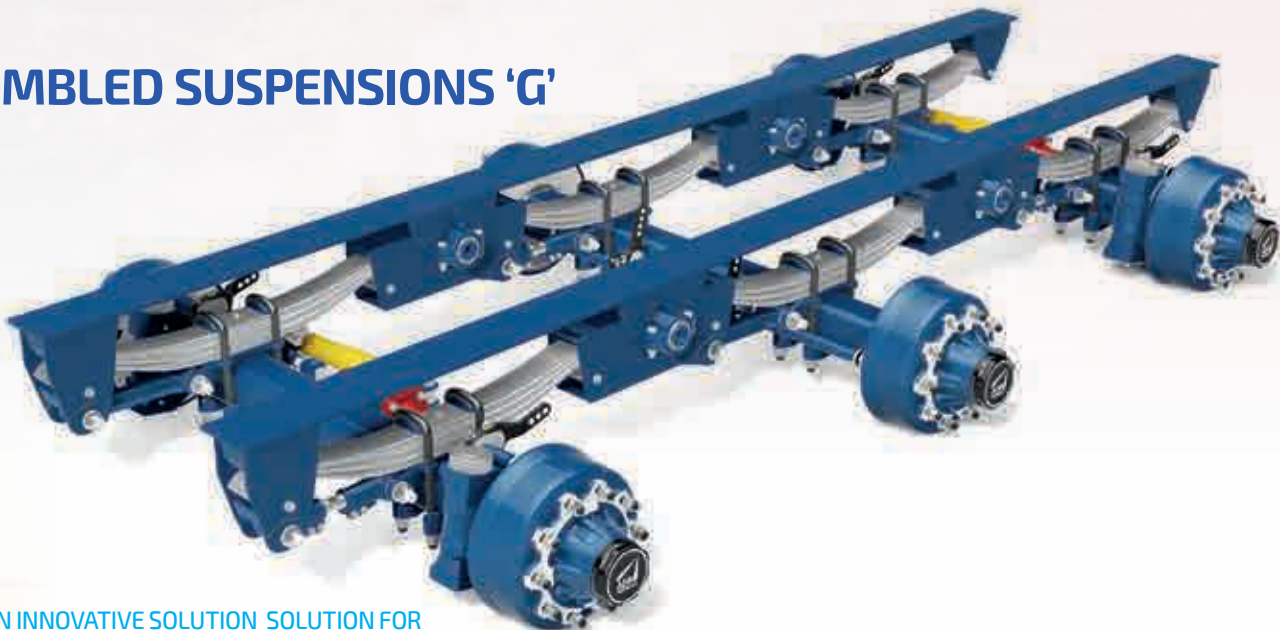
The mechanical K suspensions are delivered as kits, with the mechanical groups pre-assembled. Specifically, the kits include:

- Rocker arm assembly with the hinge loosened, to be tightened after installation on the chassis.
- Rigid torque arms, complete with tapered bushings and loosened bolts.
- Adjustable torque arms, complete with tapered bushings and end supports, not adjusted in length and supplied with loosened bolts (adjustment and tightening must always be performed on the trailer).
- End bolts for the springs on all supports.
- U-bolts, nuts, plates, and supports to be welded to the axle beam, delivered in a separate package.

Kits include assembly instructions.



PREASSEMBLED SUSPENSIONS 'G'



AN INNOVATIVE SOLUTION SOLUTION FOR AGRICULTURAL MACHINERY SUSPENSIONS

If the axle alignment or tire position is off by even a few millimeters, this can lead to increased fuel consumption and premature tire wear.

The precision required for assembling and adjusting suspension components can only be achieved with suitable equipment. For this reason, ADR Group companies are equipped with specialized assembly benches, allowing us to supply trailer manufacturers with fully assembled suspensions, already dimensioned according to their specifications.

All welding operations subject to structural stress, as well as the most complex assembly procedures, are carried out by ADR personnel following the instructions of the technicians who have overseen the development of the axle and suspension from the very beginning

IDENTIFICATION

ADR CODE	CUSTOMER CODE	PRODUCTION LOT	CAPACITY (KG)
KB2136C3N1138	404.76.863	20200305	CB0001
PRODUCTION SITE	40Km/h 60Km/h 24000 24000 24000 24000	LOADED RH = 36 mm	WB = 1250 mm
A 01			
RIDE HEIGHT		WHEELBASE	

KB 2 153 B4 N 11 41

TYPE OF SUSPENSION

KA

KC

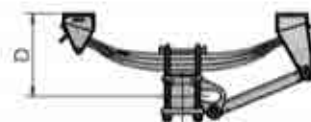
KD

KE

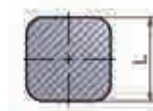
KB

KW

HEIGHT UNLADEN



AXLE BEAM



07 = 70 mm **2.76"**
08 = 80 mm **3.15"**
09 = 90 mm **3.54"**
10 = 100 mm **3.94"**
11 = 110 mm **4.33"**



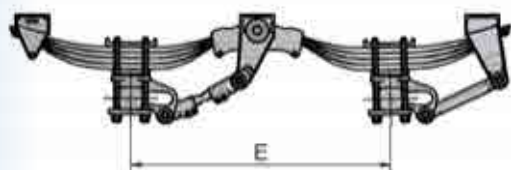
T1 = 127mm **5.00"**



12 = 120 mm **4.72"**
13 = 130 mm **5.12"**
15 = 150 mm **5.91"**

NUMBER OF AXLES

WHEELBASE [CM]



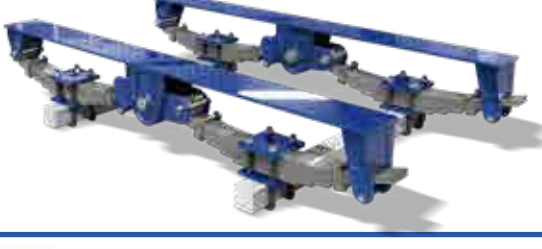
TYPE OF SPRING



N = NORMAL

R = UNDERSLUNG

MECHANICAL SUSPENSIONS

TYPE		CAPACITY (PER AXLE)			
KA		GA / KA STANDARD		GA / KA UNDERSLUNG	
		5 000 - 8 000 kg □ 70/80 mm	11 020 - 17 630 lbs □ 2.76/3.15"	5 000 - 8 000 kg □ 70/80 mm	11 020 - 17 630 lbs □ 2.76/3.15"
		7 000 - 8 000 kg □ 90 mm	15 430 - 17 630 lbs □ 3.54"	7 000 - 8 000 kg □ 90 mm	15 430 - 17 630 lbs □ 3.54"
		8 000 kg □ 100 mm	17 630 lbs □ 3.94"		
KC Multi Leaf		GC / KC Multi Leaf STANDARD		GC / KC Multi Leaf UNDERSLUNG	
		10 000 - 14 000 kg □ 70/80 90 mm	22 040 - 30 860 kg □ 2.76/3.15 3.54"	10 000 - 14 000 kg □ 70/80 90 mm	22 040 - 30 860 kg □ 2.76/3.15 3.54"
KD		GD / KD STANDARD		GD / KD UNDERSLUNG	
		10 500 kg □ 90/100/ 120 mm	23 140 lbs □ 3.54/3.94/ 4.72"	10 500 kg □ 90/100/ 120 mm	23 140 lbs □ 3.54/3.94/ 4.72"
KD Multi Leaf		GD / KD Multi Leaf STANDARD		GD / KD Multi Leaf UNDERSLUNG	
		16 000 - 24 000 kg □ 90/100 120 mm	35 270 - 52 910 lbs □ 3.54/3.94 4.72"	16 000 - 24 000 kg □ 90/100 mm	35.270 - 52 910 lbs □ 3.54/3.94"
KE		GE / KE STANDARD		GE / KE UNDERSLUNG	
		8 000 - 10 000 kg □ 90 mm	17 630 - 22 040 lbs □ 3.54"	8 000 kg □ 90 mm	17630 lbs □ 3.54"
		8 000 - 12 000 kg □ 100/120 mm Ø 127 mm	17 630 - 26 450 lbs □ 100/120" Ø 5.00"	8 000 - 10 000 kg □ 100 mm	17 630 - 22040 lbs □ 3.94"
		12 000 kg □ 130 mm	26 450 lbs □ 5.12"	8 000 - 12 000 kg □ 120 mm	17 630 - 26450 lbs □ 4.72"
				12 000 kg □ 130 mm	26 450 lbs □ 5.12"
KB		GB / KB STANDARD		-	
		12 000 kg □ 120 mm	26 450 lbs □ 4.72"		
		12 000 - 14 000 kg □ 130 mm	26 450 - 30.860 lbs □ 5.12"		
		14 000 kg □ 150 mm	30 860 lbs □ 5.91"		
KW		GW / KW STANDARD		-	
		12 000 kg □ 130 mm	26 450 lbs □ 5.12"		
		16 000 kg □ 150 mm	35 270 lbs □ 5.91"		

Full range of products and custom variants available upon request.

NO ROUTINE MAINTENANCE

THE ADR SOLUTION TO KEEP UP WITH THE TIMES.



The KA MECHANICAL SUSPENSION range with capacities from 11 020 lbs to 35 270 lbs increases the strengths of suspensions and incorporates the technological innovations demanded by the market:

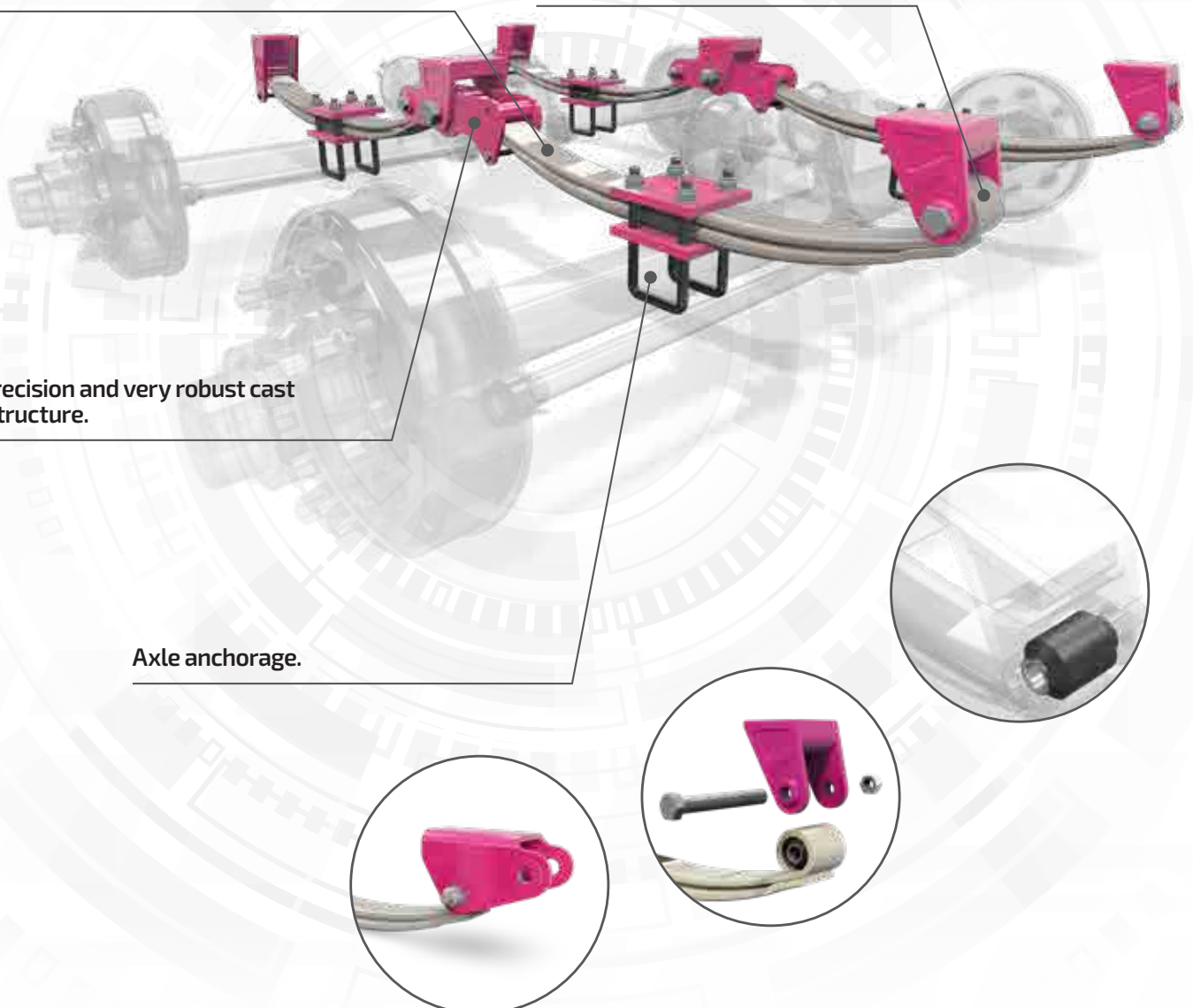
- Ever-faster speeds of use.
- Use of lighter materials that allow high and safe performance
- Reduced or zero maintenance costs and downtime
- Stronger suspensions, well adapted to all types of terrain and easy to install.

Parabolic leaf springs. - weight + load.

No routine maintenance.

High precision and very robust cast steel structure.

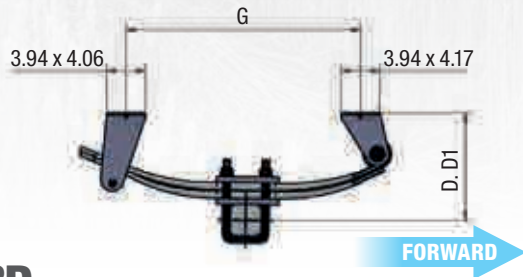
Axle anchorage.



MECHANICAL SUSPENSIONS

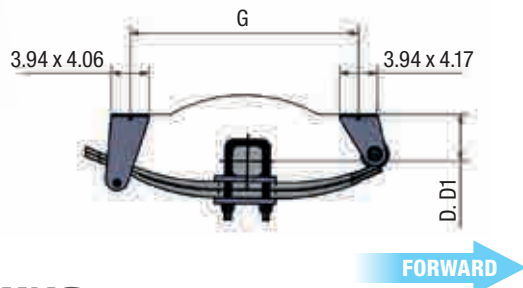
SINGLE AXLE SUSPENSION

type **KA 80** ^{mm}wide 3.15 ^{inch}wide



STANDARD

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
11 020	-	20.87	-	2.76	9.53	8.94	4188010 (RP80G416)	-	KA1000C5N0724
				3.15	9.72	9.13			KA1000C5N0825
15 430	-	23.62	-	2.76	10.63	10.08	4188006 (RP80G412)	-	KA1000C1N0727
				3.15	10.83	10.28			KA1000C1N0828
				3.54	11.02	10.47			KA1000C1N0928
17 630	-	31.89	-	2.76	11.02	10.08	4188007 (RP80G413)	-	KA1000C3N0728
				3.15	11.22	10.28			KA1000C3N0829
				3.54	11.42	10.47			KA1000C3N0929



UNDERSLUNG

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
11 020	-	20.87	-	2.76	4.33	3.74	4188010 (RP80G416)	-	KA1000C5R0711
				3.15	4.13	3.54			KA1000C5R0811
15 430	-	23.62	-	2.76	5.04	4.49	4188006 (RP80G412)	-	KA1000C1R0713
				3.15	4.84	4.29			KA1000C1R0812
				3.54	4.65	4.09			KA1000C1R0912
17 630	-	31.89	-	2.76	5.08	4.13	4188007 (RP80G413)	-	KA1000C3R0713
				3.15	4.88	3.94			KA1000C3R0812
				3.54	4.69	3.74			KA1000C3R0912

C = CAPACITY

E = WHEELBASE

G = BRACKET DISTANCE 1

H = BRACKET DISTANCE 2

Q = AXLE TYPE (SQUARE BEAM)

D = HEIGHT WHEN EMPTY

D1 = HEIGHT LOADED

LF = LEAF SPRING

EA = ROCKER LENGTH

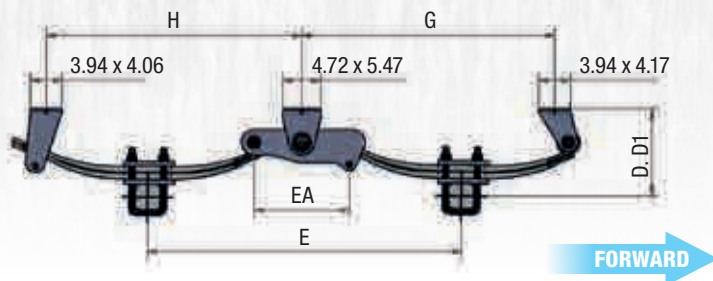
CD = ORDER CODE

1.000 lb = 453.59 kg

10" = 254 mm

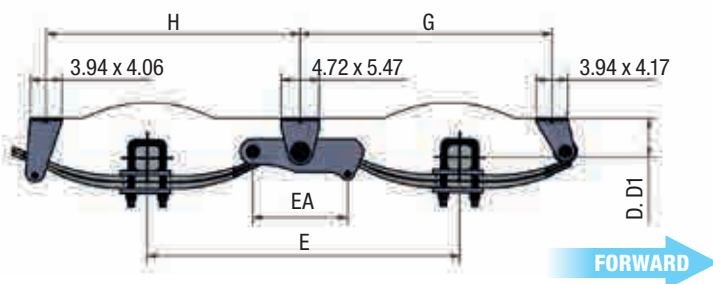
TANDEM SUSPENSION

type **KA 80** ^{mm}wide **3.15** ^{inch}wide



STANDARD

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
22 040	35.83	28.23	28.54	2.76	9.53	8.94	4188010 (2 x 0.59" x 27.17")	12.20	KA2091C5N0724
				3.15	9.72	9.13			KA2091C5N0825
	41.73	30.98	31.30	2.76	9.53	8.94		18.50	KA2106C5N0724
				3.15	9.72	9.13			KA2106C5N0825
30 860	38.98	31.38	31.69	3.15	10.83	10.28	4188006 (2 x 0.79" x 29.92")	12.20	KA2099C1N0828
				3.54	11.02	10.47			KA2099C1N0928
	45.28	34.53	34.84	3.15	10.83	10.28		18.50	KA2115C1N0828
				3.54	11.02	10.47			KA2115C1N0928
35 270	47.24	39.65	39.96	3.54	11.42	10.47	4188007 (2 x 0.98" x 38.39")	12.20	KA2120C3N0929
				3.94	11.81	10.87			KA2120C3N1030
	53.15	42.40	42.72	3.54	11.42	10.47		18.50	KA2135C3N0929
				3.94	11.81	10.87			KA2135C3N1030



UNDERSLUNG

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
22 040	35.83	28.23	28.54	2.76	4.33	3.74	4188010 (2 x 0.59" x 27.17")	12.20	KA2091C5R0711
				3.15	4.13	3.54			KA2091C5R0811
30 860	38.98	31.38	31.69	3.15	4.84	4.29	4188006 (2 x 0.79" x 29.92")	12.20	KA2099C1R0812
				3.54	4.65	4.09			KA2099C1R0912
35 270	47.24	39.65	39.96	3.15	4.88	3.94	4188007 (2 x 0.98" x 38.39")	12.20	KA2120C3R0812
				3.54	4.69	3.74			KA2120C3R0912

C = CAPACITY

D = HEIGHT WHEN EMPTY

E = WHEELBASE

D1 = HEIGHT LOADED

G = BRACKET DISTANCE 1

LF = LEAF SPRING

H = BRACKET DISTANCE 2

EA = ROCKER LENGTH

Q = AXLE TYPE (SQUARE BEAM)

CD = ORDER CODE

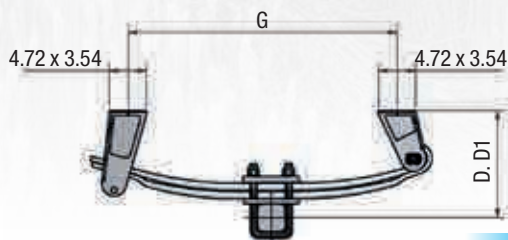
1.000 lb = 453.59 kg

10" = 254 mm

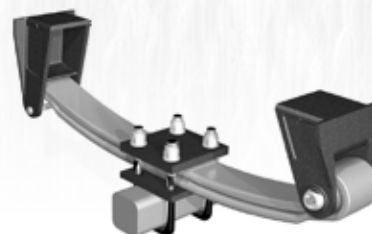
MECHANICAL SUSPENSIONS

SINGLE AXLE SUSPENSION

type **KD 100** mm wide **3.94** inch wide

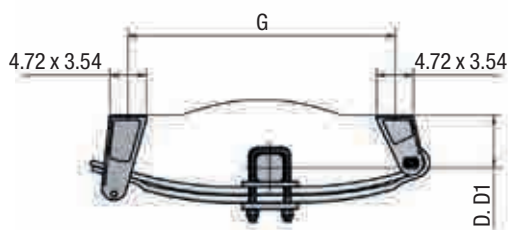


FORWARD



STANDARD

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
23 140	-	34.25	-	3.54	13.43	12.72	4181003 (2 x 0.98" x 40.75")	-	KD1000D2N0934
				3.94	13.62	12.91			KD1000D2N1035
				4.72	14.21	13.50			KD1000D2N1237



FORWARD

UNDERSLUNG

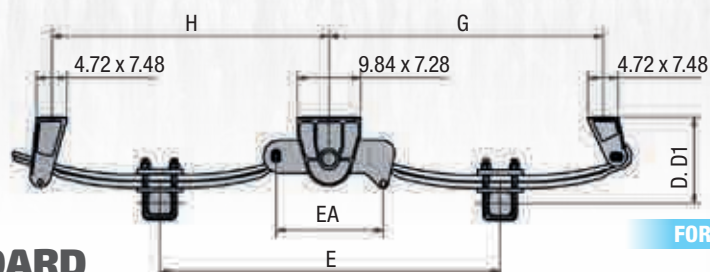
C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
23 140	-	34.25	-	3.54	6.57	5.87	4181003 (2 x 0.98" x 40.75")	-	KD1000D2R0916
				3.94	6.38	5.67			KD1000D2R1015
				4.72	5.79	5.08			KD1000D2R1214

C = CAPACITY	D = HEIGHT WHEN EMPTY
E = WHEELBASE	D1 = HEIGHT LOADED
G = BRACKET DISTANCE 1	LF = LEAF SPRING
H = BRACKET DISTANCE 2	EA = ROCKER LENGTH
Q = AXLE TYPE (SQUARE BEAM)	CD = ORDER CODE

1.000 lb = 453.59 kg
10" = 254 mm

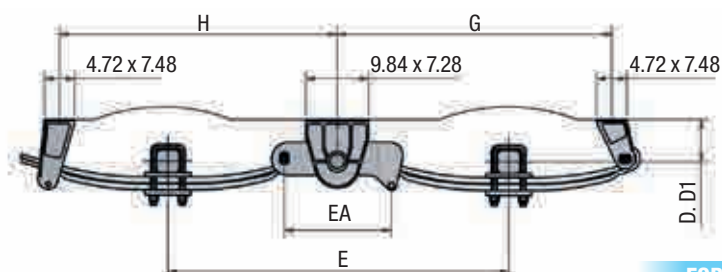
TANDEM SUSPENSION

type **KD 100** mm wide **3.94** inch wide



STANDARD

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
46 290	53.15	42.80	43.31	3.94	13.62	12.91	4181003 (2 x 0.98" x 40.75")	16.54	KD2136D2N1035
				4.72	14.21	13.50			KD2136D2N1237
	58.27	45.35	45.87	3.94	13.62	12.91		21.65	KD2150D2N1035
				4.72	14.21	13.50			KD2150D2N1237
	61.81	47.32	47.83	3.94	13.62	12.91		24.80	KD2157D2N1035
				4.72	14.21	13.50			KD2157D2N1237



UNDERSLUNG

C	E	G	H	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in		in	
46 290	53.15	42.80	43.31	3.94	6.38	5.67	4181003 (2 x 0.98" x 40.75")	16.54	KD2136D2R1015
				4.72	5.79	5.08			KD2136D2R1214
	58.27	45.35	45.87	3.94	6.38	5.67		21.65	KD2150D2R1015
				4.72	5.79	5.08			KD2150D2R1214
	61.81	47.32	47.83	3.94	6.38	5.67		24.80	KD2157D2R1015
				4.72	5.79	5.08			KD2157D2R1214

C = CAPACITY
E = WHEELBASE
G = BRACKET DISTANCE 1
H = BRACKET DISTANCE 2
Q = AXLE TYPE (SQUARE BEAM)
D = HEIGHT WHEN EMPTY
D1 = HEIGHT LOADED
LF = LEAF SPRING
EA = ROCKER LENGTH
CD = ORDER CODE

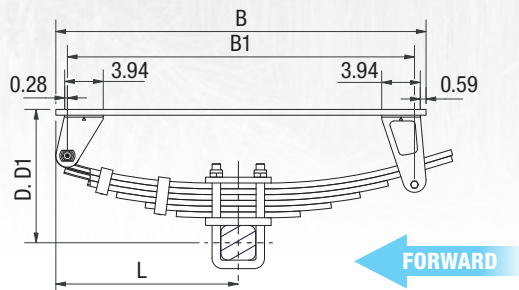
1.000 lb = 453.59 kg
 10" = 254 mm

MECHANICAL SUSPENSIONS

SINGLE AXLE SUSPENSION

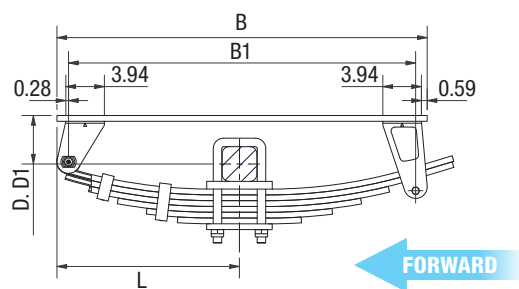
type **KC** multi leaf **80** mm wide **3.15** inch wide

Multi leaf R80



type **5205** STANDARD

LOAD	LEAF SPRING		B	B1	L	□ 70		□ 80		□ 90	
						D	D1	D	D1	D	D1
lb	THICKNESS	TYPE	in	in	in	in	in	in	in	in	in
11 020	4 x 0.51" (2 LM)	R80G403	29.92	27.56	14.57	11.46	11.02	11.65	11.22	11.85	11.42
	1 x 0.59" 3 x 0.51" (2 LM)	R80G400	33.86	31.50	16.61	11.34	10.71	11.54	10.91	11.73	11.10
14 320	5 x 0.59" (2 LM)	R80G401	37.80	35.43	18.62	12.28	11.57	12.48	11.77	12.68	11.97
	6 x 0.59" (2 LM)	R80G402	43.70	41.34	21.65	12.87	11.81	13.07	12.01	13.27	12.20
15 430	6 x 0.59" (2 LM)	R80G404	37.80	35.43	18.62	12.91	12.28	13.11	12.48	13.31	12.68



type **5265** UNDERSLUNG

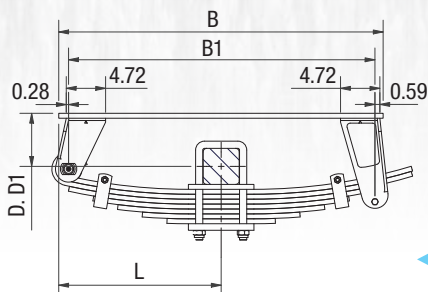
LOAD	LEAF SPRING		B	B1	L	□ 70		□ 80		□ 90	
						D	D1	D	D1	D	D1
lb	THICKNESS	TYPE	in	in	in	in	in	in	in	in	in
11 020	4 x 0.51" (2 LM)	R80G403	29.92	27.56	14.57	5.71	5.28	5.51	5.08	5.31	4.88
	1 x 0.59" 3 x 0.51" (2 LM)	R80G400	33.86	31.50	16.61	5.59	4.96	5.39	4.76	5.20	4.57
14 320	5 x 0.59" (2 LM)	R80G401	37.80	35.43	18.62	5.67	4.92	5.47	4.72	5.28	4.53
	6 x 0.59" (2 LM)	R80G402	43.70	41.34	21.65	5.63	4.57	5.43	4.37	5.24	4.17
15 430	6 x 0.59" (2 LM)	R80G404	37.80	35.43	18.62	5.67	5.04	5.47	4.84	5.28	4.65

1.000 lb = 453.59 kg
10" = 254 mm

SINGLE AXLE SUSPENSION

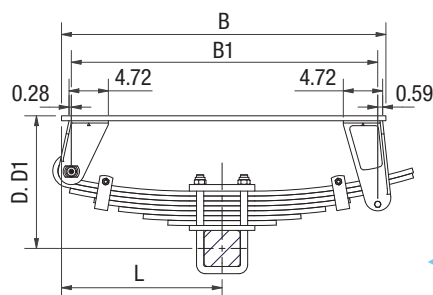
type **KD** multi leaf 100 mm wide 3.94 inch wide

Multi leaf R100



type 5206 STANDARD

LOAD	LEAF SPRING		B	B1	L	□ 90		□ 100		□ 120	
						D	D1	D	D1	D	D1
lb	THICKNESS	TYPE	in	in	in	in	in	in	in	in	in
17 630	6 x 0.59" (2 LM)	R100G528	35.83	33.66	17.72	14.84	14.37	15.04	14.57	-	-
23 140	7 x 0.59" (2 LM)	R100G918	38.98	36.81	19.29	15.63	15.00	15.83	15.20	16.22	15.59
		R100G918P *	38.98	36.81	19.53	13.90	13.11	14.09	13.31	14.49	13.70
26 450	10 x 0.59" (2 LM)	R100G919	38.98	36.81	19.33	-	-	17.40	16.77	17.80	17.17
		R100G919P *	38.98	36.81	19.53	-	-	15.83	15.20	16.22	15.59



type 5266 UNDERSLUNG

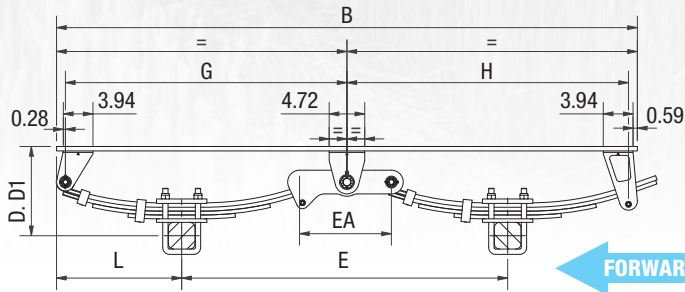
LOAD	LEAF SPRING		B	B1	L	□ 90		□ 120	
						D	D1	D	D1
lb	THICKNESS	TYPE	in	in	in	in	in	in	in
17 630	6 x 0.59" (2 LM)	R100G528	35.83	33.66	17.72	6.57	6.10	6.38	5.91
23 140	7 x 0.59" (2 LM)	R100G918	38.98	36.81	19.29	6.57	5.79	6.38	5.59
		R100G918P *	38.98	36.81	19.53	5.04	4.25	4.84	4.06
26 450	10 x 0.59" (2 LM)	R100G919	38.98	36.81	19.33	-	-	6.38	5.75
		R100G919P *	38.98	36.81	19.53	-	-	4.84	4.17

MECHANICAL SUSPENSIONS

TANDEM SUSPENSION

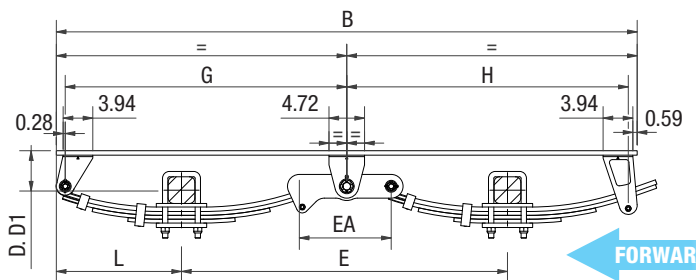
type **KC** multi leaf **80** mm wide **3.15** inch wide

Multi leaf R80



type 5225 STANDARD

LOAD	LEAF SPRING		E	EA	B	G	H	L	□ 70		□ 80		□ 90	
									D	D1	D	D1	D	D1
lb	Thickness	Type	in	in	in	in	in	in	in	in	in	in	in	in
22 040	4 x 0.51" (2 LM)	R80G403	39.37	12.20	69.29	33.46	33.46	14.61	11.54	10.98	11.73	11.18	11.93	11.38
	1 x 0.59" 3 x 0.51" (2 LM)	R80G400	43.31	12.20	77.17	37.40	37.40	16.61	11.34	10.71	11.54	10.91	11.73	11.10
28 650	5 x 0.59" (2 LM)	R80G401	47.24	12.20	85.04	41.34	41.34	18.70	12.32	11.46	12.52	11.65	12.72	11.85
	6 x 0.59" (2 LM)	R80G402	53.15	12.20	96.85	47.24	47.24	21.65	12.87	11.73	13.07	11.93	13.27	12.13
30 860	6 x 0.59" (2 LM)	R80G404	47.24	12.20	85.04	41.34	41.34	18.70	12.91	12.17	13.11	12.36	13.31	12.56



type 5285 UNDERSLUNG

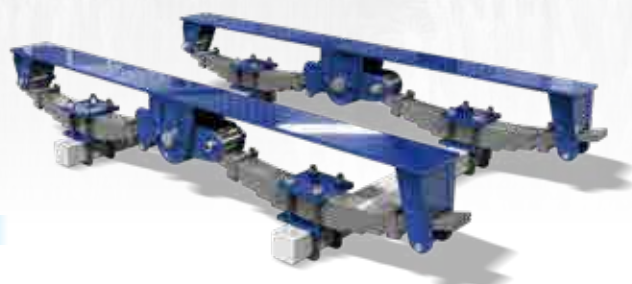
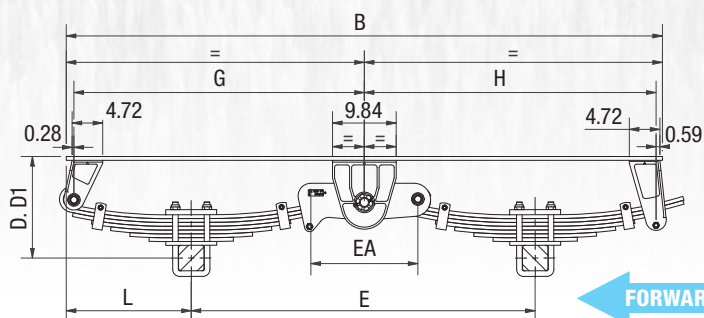
LOAD	LEAF SPRING		E	EA	B	G	H	L	□ 70		□ 80		□ 90	
									D	D1	D	D1	D	D1
lb	Thickness	Type	in	in	in	in	in	in	in	in	in	in	in	in
22 040	4 x 0.51" (2 LM)	R80G403	39.37	12.20	69.29	33.46	33.46	14.61	5.71	5.16	5.51	4.96	5.31	4.76
	1 x 0.59" 3 x 0.51" (2 LM)	R80G400	43.31	12.20	77.17	37.40	37.40	16.61	5.59	4.96	5.39	4.76	5.20	4.57
28 650	5 x 0.59" (2 LM)	R80G401	47.24	12.20	85.04	41.34	41.34	18.70	5.67	4.80	5.47	4.61	5.28	4.41
	6 x 0.59" (2 LM)	R80G402	53.15	12.20	96.85	47.24	47.24	21.65	5.63	4.49	5.43	4.29	5.24	4.09
30 860	6 x 0.59" (2 LM)	R80G404	47.24	12.20	85.04	41.34	41.34	18.70	5.67	4.92	5.47	4.72	5.28	4.53

1.000 lb = 453.59 kg
10" = 254 mm

TANDEM SUSPENSION

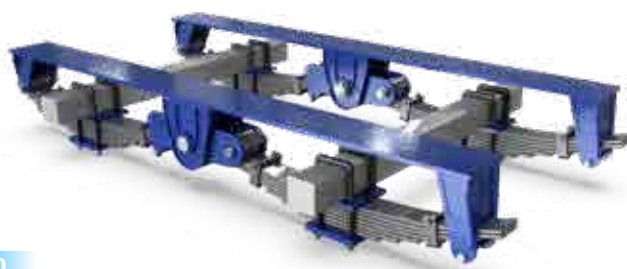
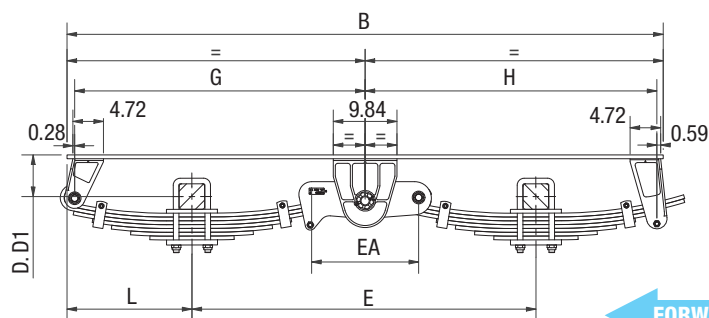
type **KD** multi leaf 100 mm wide 3.94 inch wide

Multi leaf R100



type 5226 STANDARD

LOAD	LEAF SPRING		E	EA	B	G	H	L	□ 90		□ 100		□ 120	
	Thickness	Type							D	D1	D	D1	D	D1
35 270	6 x 0.59" (2 LM)	R100G528	50.00	16.54	85.83	41.73	41.93	17.72	14.84	14.37	15.04	14.57	-	-
46 290	7 x 0.59" (2 LM)	R100G918	53.15	16.54	92.13	44.88	45.08	19.29	15.63	15.00	15.83	15.20	16.22	15.59
			58.27	21.65	97.24	47.44	47.64	19.29	15.63	15.00	15.83	15.20	16.22	15.59
			61.42	24.80	100.39	49.02	49.21	19.29	15.63	15.00	15.83	15.20	16.22	15.59
		R100G918P *	53.15	16.54	92.13	44.88	45.08	19.49	13.90	13.11	14.09	13.31	14.49	13.70
			58.27	21.65	97.24	47.44	47.64	19.49	13.90	13.11	14.09	13.31	14.49	13.70
			61.42	24.80	100.39	49.02	49.21	19.49	13.90	13.11	14.09	13.31	14.49	13.70
52 910	10 x 0.59" (2 LM)	R100G919	53.15	16.54	92.13	44.88	45.08	19.29	-	-	17.40	16.77	17.80	17.17
			58.27	21.65	97.24	47.44	47.64	19.29	-	-	17.40	16.77	17.80	17.17
			61.42	24.80	100.39	49.02	49.21	19.29	-	-	17.40	16.77	17.80	17.17
		R100G919P *	53.15	16.54	92.13	44.88	45.08	19.49	-	-	15.83	15.20	16.22	15.59
			58.27	21.65	97.24	47.44	47.64	19.49	-	-	15.83	15.20	16.22	15.59
			61.42	24.80	100.39	49.02	49.21	19.49	-	-	15.83	15.20	8.35	15.59



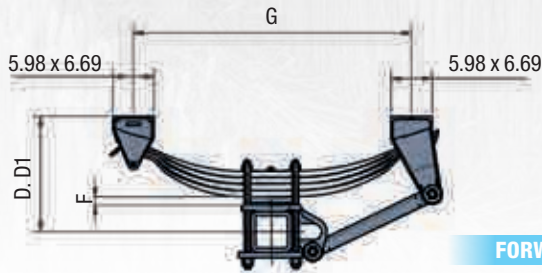
type 5286 UNDERSLUNG

LOAD	LEAF SPRING		E	EA	B	G	H	L	□ 90		□ 120	
	Thickness	Type							D	D1	D	D1
35 270	6 x 0.59" (2 LM)	R100G528	50.00	16.54	85.83	41.73	41.93	17.72	6.57	6.10	6.38	5.91
46 290	7 x 0.59" (2 LM)	R100G918	53.15	16.54	92.13	44.88	45.08	19.29	6.61	5.75	6.42	5.55
			58.27	21.65	97.24	47.44	47.64	19.29	6.61	5.75	6.42	5.55
			61.42	24.80	100.39	49.02	49.21	19.29	6.61	5.71	6.42	5.55
		R100G918P *	53.15	16.54	92.13	44.88	45.08	19.49	5.00	4.17	4.80	3.98
			58.27	21.65	97.24	47.44	47.64	19.49	5.00	4.17	4.80	3.98
			61.42	24.80	100.39	49.02	49.21	19.29	-	-	6.50	5.91
52 910	10 x 0.59" (2 LM)	R100G919	53.15	16.54	92.13	44.88	45.08	19.29	-	-	6.50	5.91
			58.27	21.65	97.24	47.44	47.64	19.29	-	-	6.50	5.91
			61.42	24.80	100.39	49.02	49.21	19.29	-	-	6.50	5.91
		R100G919P *	53.15	16.54	92.13	44.88	45.08	19.49	-	-	4.92	4.33
			58.27	21.65	97.24	47.44	47.64	19.49	-	-	4.92	4.33
			61.42	24.80	100.39	49.02	49.21	19.29	-	-	4.92	4.33

MECHANICAL SUSPENSIONS

SINGLE AXLE SUSPENSION

type **KB 100** mm wide **3.94** inch wide



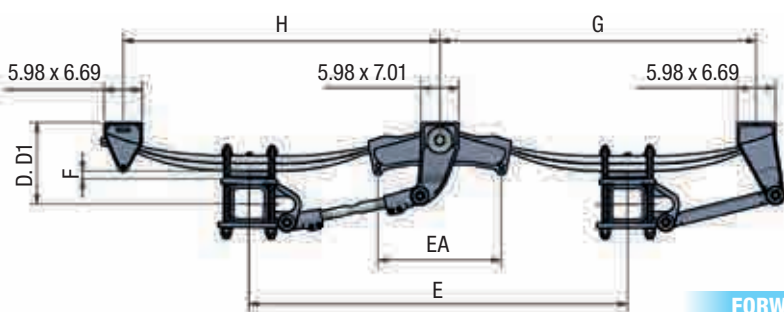
STANDARD

C	E	G	J	Q	F	D	D1	LF 1-3	EA	CD
lb	in	in	in	in	in	in	in		in	
26 450	-	39.76	-	5.12	0.00	11.30	10.16	4171007 (2 x 1.18" x 46.46")	-	KB1000C1N1330
					1.18	12.48	11.34			KB1000C1N1333
30 860	-	41.34	-	5.12	0.00	12.40	11.22	4171006 (3 x 1.06" x 46.85")	-	KB1000C2N1332
					1.18	13.58	12.40			KB1000C2N1335
				5.91	0.00	12.40	11.22		-	KB1000C2N1532
					1.18	13.58	12.40			KB1000C2N1535
	-	40.55	-	5.12	0.00	14.96	13.94	4171008 (3 x 1.06" x 46.46")	-	KB1000C3N1338
					1.18	16.14	15.12			KB1000C3N1341
				5.91	0.00	14.96	13.94			KB1000C3N1538
					1.18	16.14	15.12			KB1000C3N1541

(F) Available spacers of 30mm to increase the ride height (D, D1)

TANDEM SUSPENSION

type **KB 100** mm wide **3.94** inch wide



STANDARD

C	E	G	H	Q	D	D1	LF1-3	EA	CD
kg	mm	mm	mm	mm	mm	mm		mm	
52 910	53.54	46.65	46.65	5.12	11.61	10.47	4171007 (2 x 1.18" x 46.46")		KB2136C1N1330
	60.04	49.61	49.61						KB2153C1N1330
61 720	53.54	46.65	46.65	5.91	12.40	11.22	4171006 (3 x 1.06" x 46.85")		KB2136C2N1532
	60.04	49.61	49.61						KB2153C2N1532
61 720	53.54	47.44	47.44	5.91	15.16	14.13	4171008 (3 x 1.06" x 46.46")		KB2136C3N1538
	60.04	50.59	50.20						KB2153C3N1538

C = CAPACITY
E = WHEELBASE
G = BRACKET DISTANCE 1-3

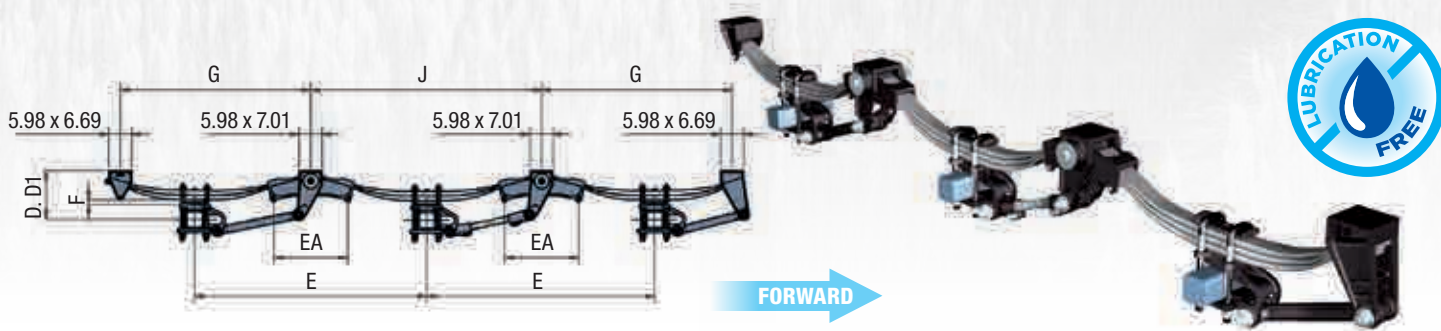
J = BRACKET DISTANCE 2
Q = AXLE TYPE (SQUARE BEAM)
D = HEIGHT WHEN EMPTY

D1 = HEIGHT LOADED
LF1-3 = LEAF SPRING 1-3
LF2 = LEAF SPRING 2

EA = ROCKER LENGTH
CD = ORDER CODE
F = SPACER

TRIDEM SUSPENSION

type **KB 100** mm wide **3.94** inch wide



STANDARD

C	E	G	J	Q	D	D1	LF	EA	CD
lb	in	in	in	in	in	in	LF 1 - 3	in	
79 360	53.54	46.65	53.54	5.12	11.61	10.47	4171007 (2 x 1.18" x 46.46")		KB3136C1N1330
	60.04	49.61	60.04						KB3153C1N1330
92 590	53.54	46.65	53.54	5.91	12.40	11.22	4171006 (3 x 1.06" x 46.85")		KB3136C2N1532
	60.04	49.61	60.04						KB3153C2N1532
92 590	53.54	47.44	53.54	5.91	15.16	14.13	4171008 (3 x 1.06" x 46.46")		KB3136C3N1538
	60.04	50.59	59.25						KB3153C3N1538

C = CAPACITY

E = WHEELBASE

G = BRACKET DISTANCE 1-3

J = BRACKET DISTANCE 2

Q = AXLE TYPE (SQUARE BEAM)

D = HEIGHT WHEN EMPTY

D1 = HEIGHT LOADED

LF1-3 = LEAF SPRING 1-3

LF2 = LEAF SPRING 2

EA = ROCKER LENGTH

CD = ORDER CODE

F = SPACER

1.000 lb = 453.59 kg

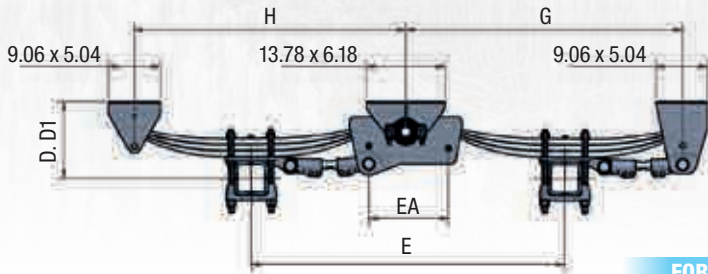
10" = 254 mm



MECHANICAL SUSPENSIONS

HEAVY-DUTY TANDEM SUSPENSION

type **KW 100** mm wide **3.94** inch wide



FORWARD

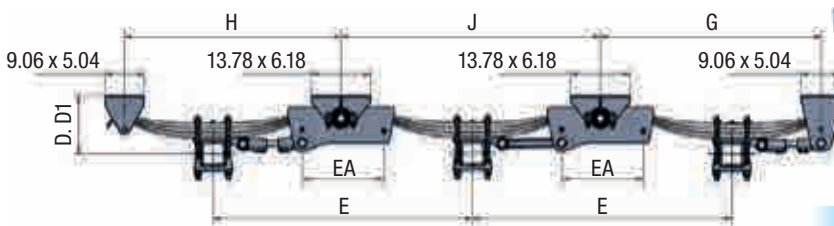


STANDARD

C	E	G	H	J	EA	Q	D	D1	LF		CD
lb	in	in	in	in	in	in	in	in	LF 1 - 3	LF 2	
52 910	55.51	49.61	48.03	-	13.98	5.12	12.99	12.09	4171010 (2 x 1.18" x 49.61")	-	KW2141C1N1331
	60.04	51.10	50.12	-	18.90	5.12					KW2153C1N1331
	71.26	56.89	55.51	-	32.17	5.12					KW2181C1N1333
70 540	55.51	49.61	48.03	-	13.98	5.91	13.78	12.60	4171009 (3 x 1.06" x 50.00")	-	KW2141C2N1534
	60.04	51.10	50.12	-	18.90	5.91					KW2153C2N1534
	71.26	56.89	55.51	-	32.17	5.91					KW2181C2N1535
70 540	72.83	56.30	57.68	-	29.96	5.91	13.78	12.60		-	KW2185C2N1535

HEAVY-DUTY TRIDEM SUSPENSION

type **KW 100** mm wide **3.94** inch wide



FORWARD



STANDARD

C	E	G	H	J	EA	Q	D	D1	LF		CD
lb	in	in	in	in	in	in	in	in	LF 1 - 3	LF 2	
79 360	55.51	49.92	48.03	55.51	13.98	5.12	12.99	12.09	4171010 (2 x 1.18" x 49.61")	-	KW3141C1N1331
	60.04	51.10	50.12	60.04	18.90	5.12					KW3153C1N1331
	71.26	56.89	55.51	71.26	32.17	5.12					KW3181C1N1333
105 820	55.51	49.61	48.03	55.51	13.98	5.91	13.78	12.60	4171009 (3 x 1.06" x 50.00")	-	KW3141C2N1534
	60.04	51.10	50.12	60.04	18.90	5.91					KW3153C2N1534
	71.26	56.89	55.51	71.26	32.17	5.91					KW3181C2N1535
105 820	72.83	56.30	57.68	72.83	29.96	5.91	13.78	12.60		-	KW3185C2N1535

C = CAPACITY
E = WHEELBASE
G = BRACKET DISTANCE 1-3

J = BRACKET DISTANCE 2
Q = AXLE TYPE (SQUARE BEAM)
D = HEIGHT WHEN EMPTY

D1 = HEIGHT LOADED
LF1-3 = LEAF SPRING 1-3
LF2 = LEAF SPRING 2

EA = ROCKER LENGTH
CD = ORDER CODE
F = SPACER

HYDRAULIC SUSPENSIONS

ADR offers a range of hydraulic suspensions able to satisfy all the market needs.

With the hydraulic suspensions it is possible to vary the set-up without affecting the stability and safety of the vehicle, this feature is essential for the safety of a vehicle that moves in extreme conditions.



ADR

HYDRAULIC SUSPENSIONS

HYDRAULIC SUSPENSIONS RANGE

TYPE		CAPACITY	
HYDRO COMPACT		G6 / K6	
		13 000 kg □ 130 mm	28 650 lbs □ 5.12"
		14 000 kg □ 150 mm	30 860 lbs □ 5.91"
HYDRO ADVANCED		GM / KM	
		15 000 kg □ 150 mm	33 060 lbs □ 5.91"
ALPHA 15T		WA15 XA15	
		15 000 kg □ 150 mm	33 060 lbs □ 5.91"
ALPHA 18T		WA18	
		18 000 kg □ 150 mm	39 680 lbs □ 5.91"
HYDRO EVO		GK	
		13 000 kg □ 130 mm	28 650 lbs □ 5.12"
		14 000 kg □ 150 mm	30 860 lbs □ 5.91"

The hydraulic circuit configuration depends on the type of hydraulic suspension and the management system used.
For further details on the appropriate connection scheme, please contact ADR USA..

Full range of products and custom variants available upon request.

IDENTIFICATION



HYDRAULIC SUSPENSION "HYDRO COMPACT"

HydroCompact

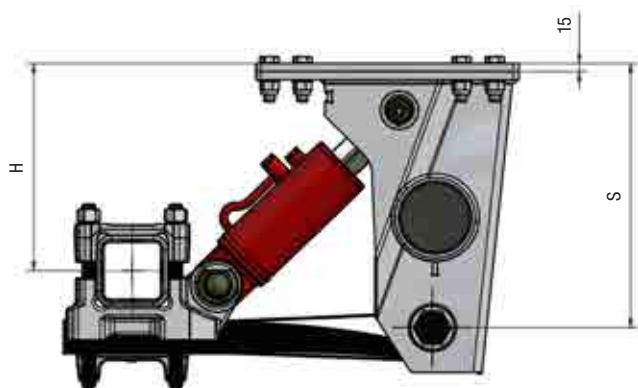
type **G6 - K6**

type **G8 - K8**

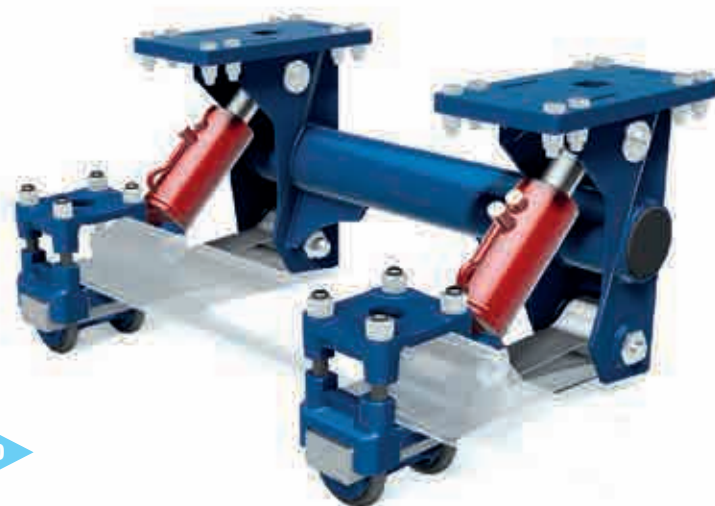
Hydro Compact plus:

Cylinder aligned to the frame to allow the frame distances greater

- Cylinder position within the structure. allows full protection of the stem and of the joints from the outside environment
- Fastening design to the trailer 'EasyToFit' without any welding by the customer
- Clamping system 'Plugged' to ensure the assembly stability in all operating conditions
- Clamping to body axle 'Fit-on Square' with forged plates that bind the square on all sides for high stability assembly even with severe transverse forces
- Concept 'Weldless' for clamping: minimum welds for high resistance



FORWARD



G6 G8 - assembled suspension
K6 K8 - suspension kit

This type of suspensions must be assembled only with axles TEKNOAX type

TEKNOAX

CAPACITY	AXLE	CYLINDERS	S	H (MIN. / MAX.)	CODE
lb	in	Ø in	in	in	
28 650	5.12 (TA13H4T...)	Ø3.94 - Ø2.36 (812A012501)	18.90	14.84 (10.94 - 19.17)	G6... K6...
30 860	5.91 (TA15L4V...)	Ø3.94 - Ø2.36 (812A012501)	18.90	14.06 (10.43 - 18.54)	G6... K6...

HYDRAULIC SUSPENSIONS

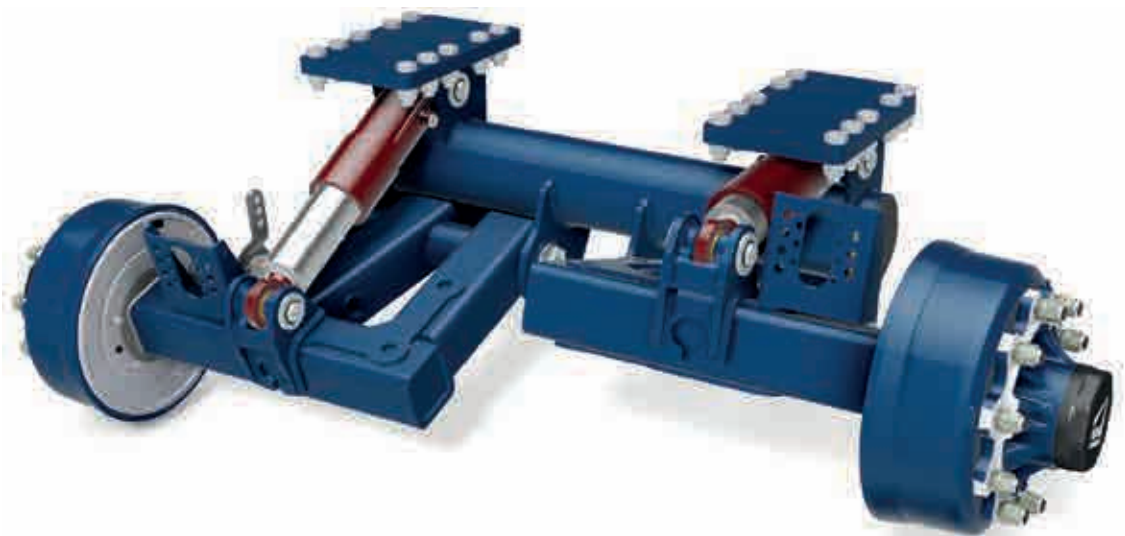
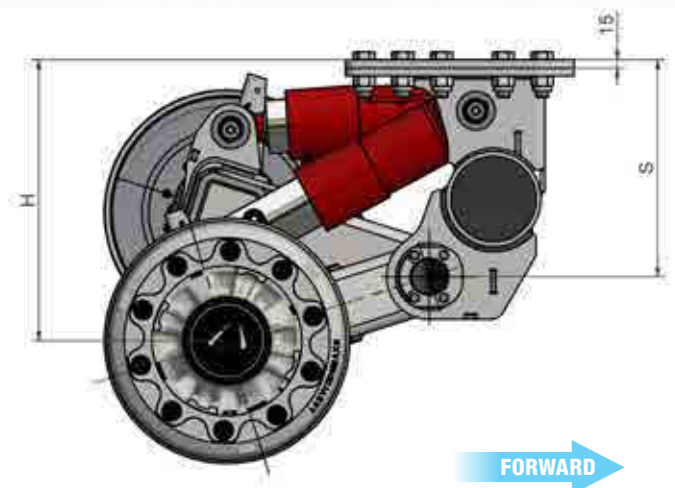
HYDRAULIC SUSPENSION “HYDRO EVO”

type **GK**

HydroEvo

HydroEvo

- Cylinders in the middle to with reduced footprint.
- It keeps the wheel axis always parallel to the chassis of the vehicle for optimum road holding and turning stability with unbalanced loads.
- Strong construction with high travel of wheels to face the most severe conditions.
- It allows the wheel lifting.



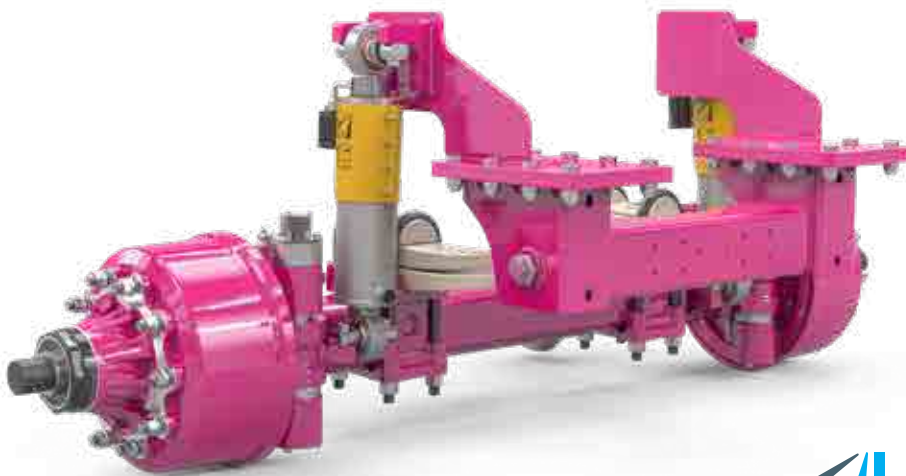
CAPACITY	AXLE	CYLINDERS	S	H (MIN. / MAX.)	CODE
lb	mm	Ø in	in	in	
28 650	5.12	Ø 3.94 - Ø 3.15	16.14	16.06 (11.38 - 20.67)	GK13...
33 060	5.91	Ø 4.72 - Ø 3.15	17.13	18.78 (14.88 - 22.80)	GK15...

HYDRAULIC SUSPENSION “HYDRO ADVANCED”

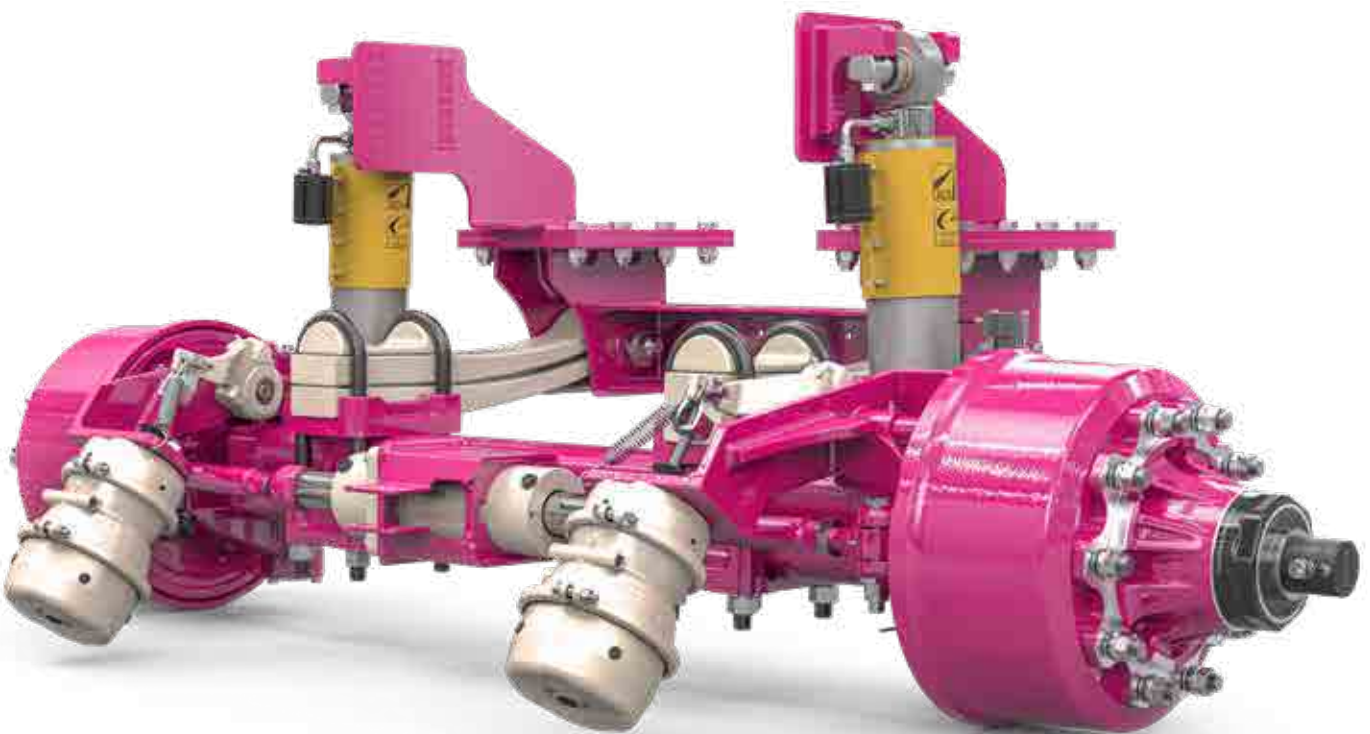
Hydro Advanced represents the pinnacle of ADR's experience in hydraulic suspensions with axles designed to provide comfort on the road and agricultural terrains. These suspensions allow for overcoming significant elevation changes, ensuring stability and safety.

Their lightweight and strength optimize vehicle performance, while ease of installation reduces assembly time. Direct mounting on the machine's frame with quick fastening is possible.

The alignment of the axle is practical, and maintenance is simplified thanks to a design intended for easy disassembly.



HYDRO ADVANCED



HYDRAULIC SUSPENSIONS

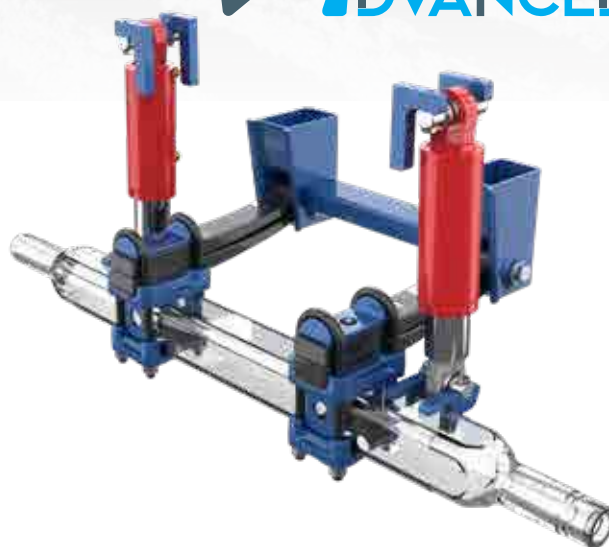
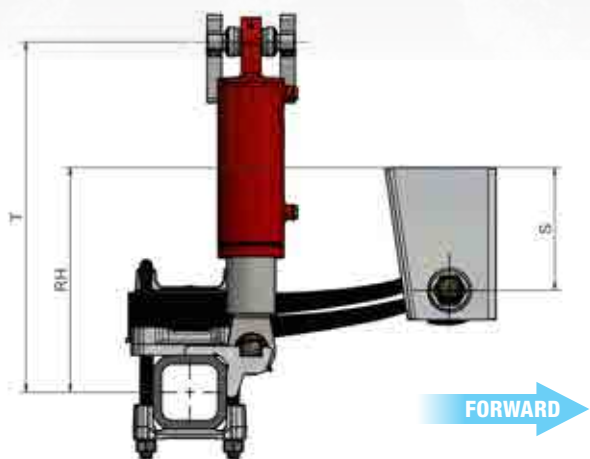
HYDRAULIC SUSPENSION "HYDRO ADVANCED"

GM - assembled suspension

KM - suspension kit

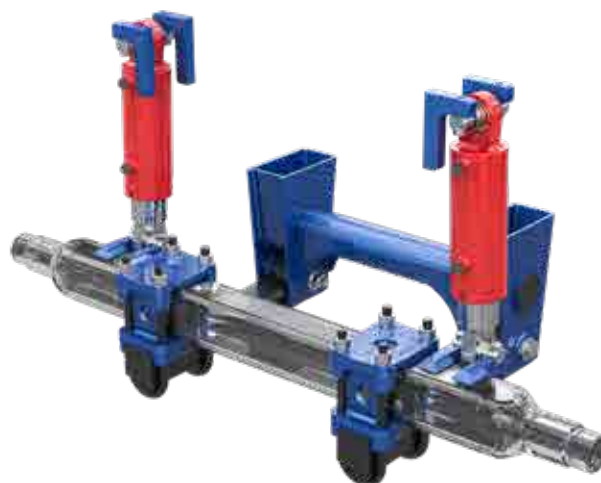
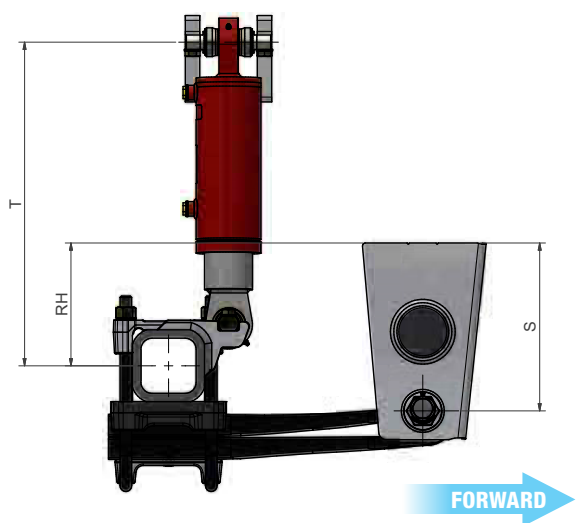
type **GM - KM**

**HYDRO
ADVANCED**



STANDARD

CAPACITY	AXLE	CYLINDERS	S	RH (MIN. / MAX.)	T	CODE
lb	in	Ø in	in	in	in	
26 450	5.91	Ø4.33 - Ø3.15	10,55	18,50 (14,57 - 24,53)	23,39	GM...P... KM...P...
33 060	5.91	Ø4.72 - Ø3.94	7.87	16,06 (10,83 - 21,10)	28,15	GM...L... KM...L...
			9.84	18,03 (12,80 - 23,07)		
			11.81	20,00 (14,76 - 25,04)		



UNDERSLUNG

CAPACITY	AXLE	CYLINDERS	S	RH (MIN. / MAX.)	T	CODE
lb	in	Ø in	in	in	in	
33 060	5.91	Ø4.72 - Ø3.94	13.78	10.08 (6.89 - 16.93)	26.54	GM...T... KM...T...
			15.75			
			17.72			

HYDRAULIC SUSPENSION “ALPHA 15” “ALPHA 18”

The Alpha suspension is designed to eliminate torsional stresses on the axle, ensuring excellent road holding. It is ideal for vehicles with a wide wheel oscillation and adapts to various agricultural trailers, with configurations ranging from one to multiple axles. Benefits include fastenings on bolted pins to simplify assembly, a robust stabilizer bar with forged terminals for easy adjustment, and supports ready for frame adaptation. The vertical travel of the axle is approximately 250 mm, with a transverse inclination of up to 12 degrees, ensuring stability on challenging terrains. The triangular arm allows for high oscillations, and a bar counteracts snake motion, ensuring superior performance and comfort.



ALPHA
SUSPENSION 18



ALPHA
SUSPENSION 15



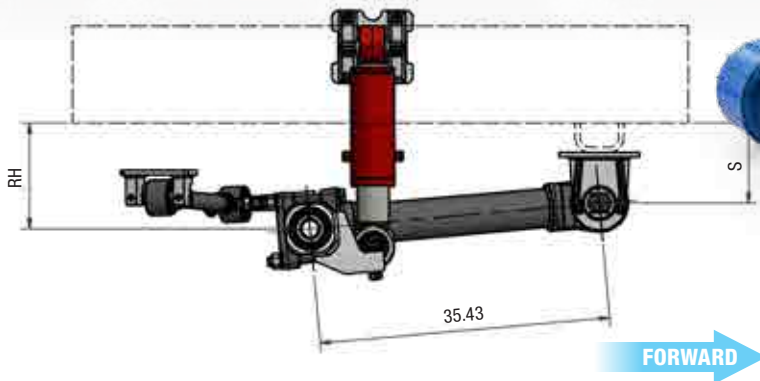
HYDRAULIC SUSPENSIONS

HYDRAULIC SUSPENSION "ALPHA 15"

WA15 - assembled suspension
XA15 - suspension kit

type **WA15 - XA15**

ALPHA
SUSPENSION 15



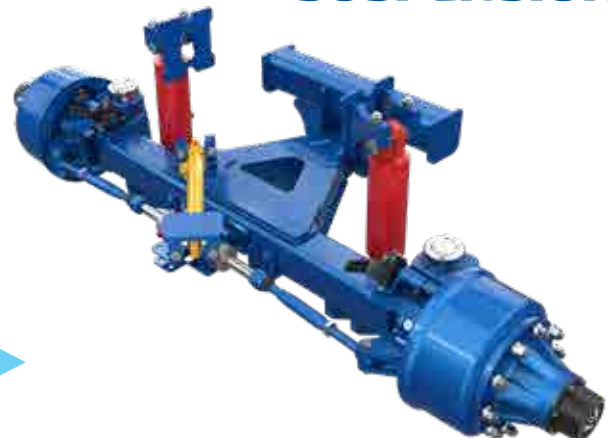
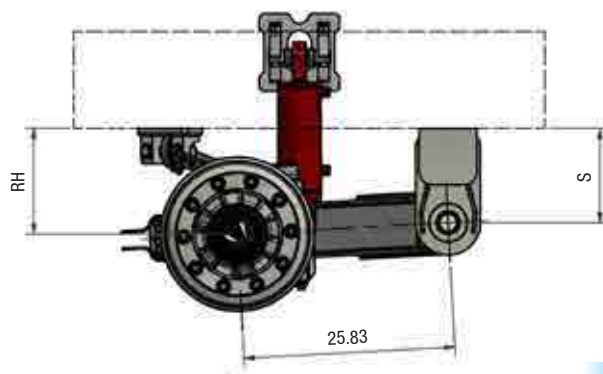
STANDARD

CAPACITY	AXLE	CYLINDERS	S	RH (MIN. / MAX.)	CODE
lb	in	Ø in	in	in	
33 060	5.91	Ø4.72 - Ø3.94	9.76	12.87 (7.48 - 17.48)	WA15 ... XA15 ...

HYDRAULIC SUSPENSION "ALPHA 18"

type **WA18**

ALPHA
SUSPENSION 18



STANDARD

CAPACITY	AXLE	CYLINDERS	S	RH (MIN. / MAX.)	CODE
lb	in	Ø in	in	in	
39 680	5.91	Ø4.72 - Ø3.94	11.54	12.91 (8.50 - 19.29)	WA18 ...



AIR SUSPENSIONS

Suspension is nowadays the most popular solution on commercial vehicles..

Owing their success to simple construction, modularity, and versatility of use. Thanks to their wide adoption, they are characterized by the standardization of the main components, improving spare-parts availability and offering efficient, responsive service to users.

Compared to traditional mechanical suspensions, pneumatic suspensions offer many advantages:

- the vehicle attitude can be adapted to loads and routes
- the self-levelling feature keeps the vehicle height constant regardless of load conditions
- they can automatically compensate braking dynamics, ensuring proper tire adherence
- they can stabilize the vehicle while turning and integrate ABS and ESP systems to optimize vehicle behavior
- the modularity of this type of suspension allows the design of assemblies with a practically unlimited number of axles

RIDEMATIC



AIR SUSPENSIONS

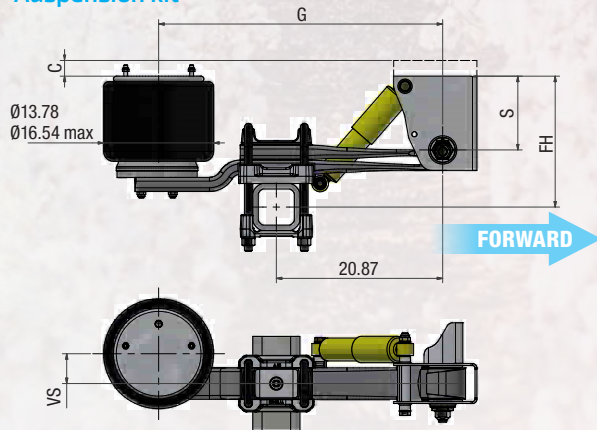
TEKNOAX

RIDEMATIC

type **GQ - KQ**

AIR SUSPENSION

GQ - Assembled suspension
KQ - Suspension kit



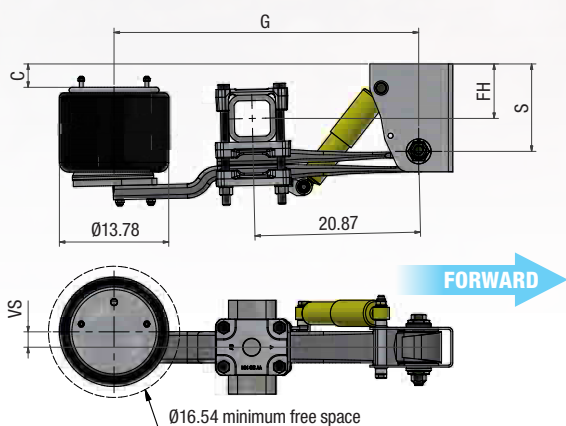
AXLE LIFT

COD. 41C101



STANDARD

CAPACITY	AXLE	LEAF SPRING	S	C	FH min	FH MAX	Bump	Maxout	G	CODE.
lb	in		in	in	in	in	in	in	in	
28 650	5.12	2 leaves	9.25	0.00	15.39	17.56	13.43	20.79	35.63	GQ13N ...
			11.22	1.97	17.36	19.53	15.39	22.76		
			13.19	3.94	19.33	21.50	17.36	24.72		
28 650	5.91	2 leaves	9.25	0.00	15.87	18.03	13.90	21.14	35.63	GQ13N ...
			11.22	1.97	17.83	20.00	15.87	23.11		
			13.19	3.94	19.80	21.97	17.83	25.08		



UNDERSLUNG

CAPACITY	AXLE	LEAF SPRING	S	C	FH min	FH MAX	Bump	Maxout	G	CODE.
lb	in		in	in	in	in	in	in	in	
28 650	5.12	2 leaves	9.25	0.00	4.49	6.65	2.52	10.16	38.39	GQ13R ...
			11.22	1.97	6.46	8.62	4.49	12.13		
			13.19	3.94	8.43	10.59	6.46	14.09		
28 650	5.91	2 leaves	9.25	0.00	4.25	6.42	2.28	10.04	38.39	GQ13R ...
			11.22	1.97	6.22	8.39	4.25	12.01		
			13.19	3.94	8.19	10.35	6.22	13.98		

Hydraulic Suspension Management Systems According to ADR

ADR offers two levels of functionality for hydraulic suspension management.

HydroEasy is a **hydraulic-only system** that allows you to:

- Adjust the trailer height simply by operating the tractor's distributor control.
- Level the machine in a single operation, without needing to adjust the right and left sides separately.

Upon request, a version is available that allows the locking of the last two axles to stabilize the machine during tipping operations (e.g., dumper trailers).

HydroSmartEVO is a **hydraulic system with electric control** that allows you to:

- Adjust the trailer height by operating the tractor's distributor control.
- Level the machine in a single operation, without separate right-left adjustments.
- Lift the first axle to improve tractor traction on difficult terrain.

The functions can be selected using the 3-position switch located in the cab.

Upon request, a version is available that allows the locking of the last two axles to stabilize the machine during tipping operations (e.g., dumper trailers).

HydroSmartEVO is a **hydraulic system with electric control** that can be used only with the Hydrocompact suspension. Its functions are the same as those of the **HydroSmart** version.

HYDROSMART EVO

ELECTRO-HYDRAULIC CONTROL SYSTEM FOR HYDROSMART EVO SUSPENSIONS**

During operation, the need to adjust the trailer ride height to suit working conditions—and, on particularly challenging terrain, to increase load on the drawbar to improve tractor traction—requires quick and controlled intervention.

ADR HydroSmart EVO is an electro-hydraulic system designed to meet these needs by allowing the trailer ride height to be managed directly from the tractor cab, using electric controls in combination with the tractor's hydraulic system.

The system enables ride-height adjustment according to operating requirements and allows lifting of the first axle to transfer load to the drawbar, improving tractor traction in difficult conditions. On tipping trailers, HydroSmart EVO automatically manages rear-axle locking during body lifting (in versions equipped with valve 9ZHYZ38).

During all axle-lifting and lowering operations, the system maintains a constant trailer ride height, preventing unwanted height variations and ensuring continuous, consistent operation.

Hydro SMART Evo



Hydraulic unit



Hydro SMART Evo

CODE	DESCRIPTION
9ZHYZ38	Check valves

CODE	DESCRIPTION	APPLICATION
9ZH1E0SA005	HYDROSMART EVO with front axle lift	HYDRO ADVANCED, EVO, ALPHA
9ZH1E0SA006	HYDROSMART EVO with front axle lift and rear axles blocking	HYDRO ADVANCED, EVO, ALPHA

CONTROL SYSTEM

HYDROEASY

HYDRAULIC CONTROL SYSTEM OF THE SUSPENSIONS HYDROEASY

It's the system that allows to level the machine symmetrically in one operation by supplying the hydraulic unit. Available also with rear blocking axles functionality. in combination with the valve 9ZHYZ38.

CODE	DESCRIPTION
9ZHYZ38	Check valves



Hydro
EASY

Hydraulic unit
wil rear axles blocking



Hydro
EASY
Hydraulic unit



CODE	DESCRIPTION	APPLICATION
9ZH1H0SA001	HYDROEASY wil rear axles blocking	HYDRO COMPACT, ADVANCED, EVO, ALPHA
9ZH1H0SA002	HYDROEASY	HYDRO COMPACT, ADVANCED, EVO, ALPHA



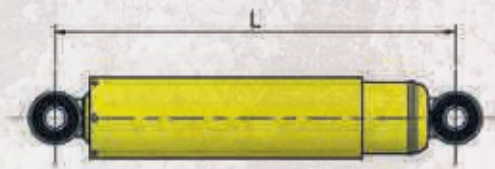
ACCESSORIES

ADR's attention to all aspects of the construction of a vehicle is also expressed by the wide availability of fundamental elements for functionality and safety such as axles, brakes and suspensions. Those who have appreciated the excellence of ADR brand products over time find the same professionalism and competence in the range of accessories

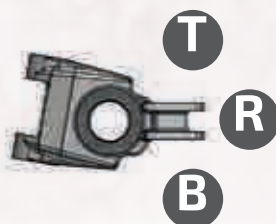


ACCESSORIES

SHOCK ABSORBER



CODE	FORCE	L (MIN. - MAX.)
	lb	in
8215502 (blue)	330	15.59 - 25.08
8215501 (red)	550	
8218301 (yellow)	1.100	

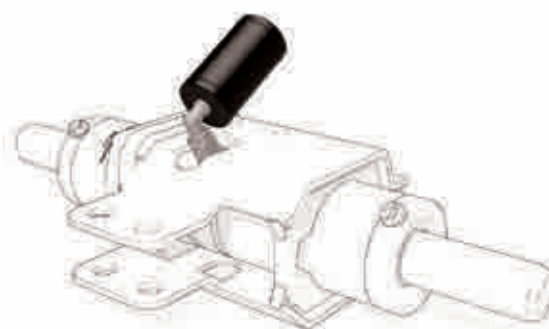


Possible mounting positions
of the shock absorber



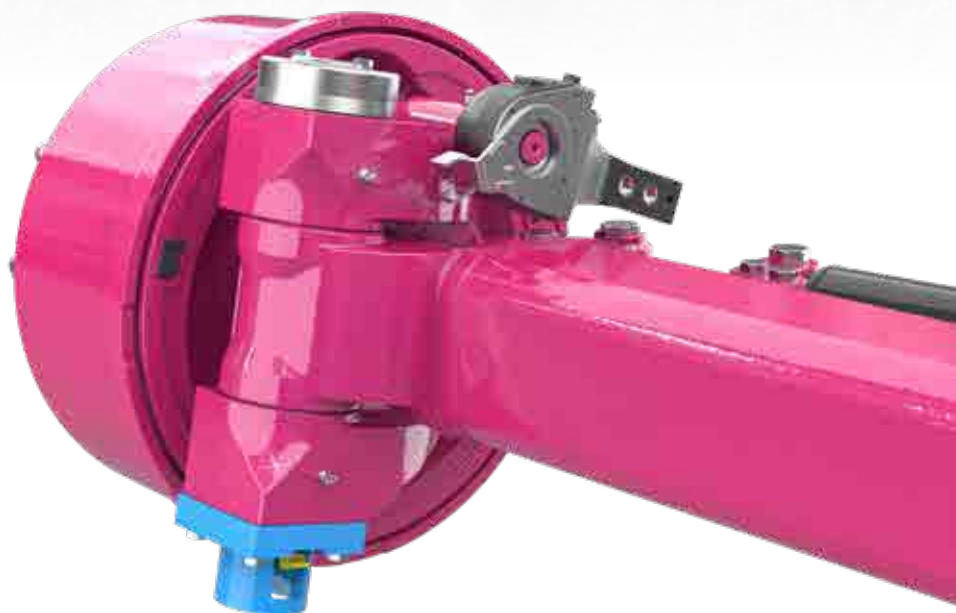
KIT FOR LUBRICATION OF STEERING AXLES' CYLINDER

COD. 81S100



ADR STEERING ANGLE SENSOR

- Available pre-assembled or after-market kit
- Protective metallic shield
- Compact solution, which can be integrated into the full ADR steering range
- Integrable with different brands of sensors: customer can chose by his needs



Type
SWP. SWQ. DWP

HUBOMETER

For both digital and analogue versions please contact ADR



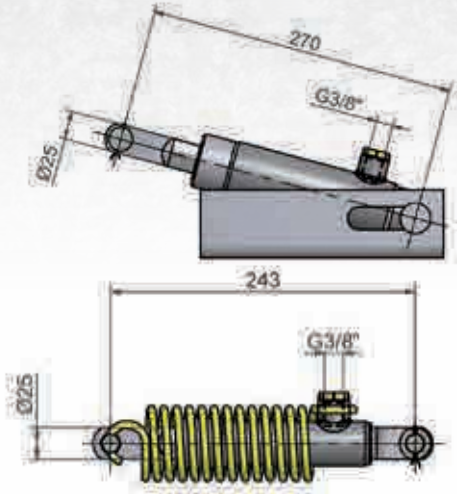
WRENCH FOR THE TIGHTENING OF TEKNOAX'S CAP

	AXLE TYPE	CODE
Spanner	4H	990805
	4P - 4R	990806
	4T - 4V	990802
	4Y	990803
Lever	-	990804



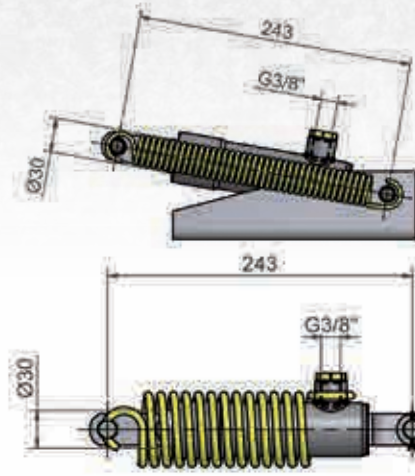
ACCESSORIES

HYDRAULIC RAM FOR BRAKING



COD. 813107

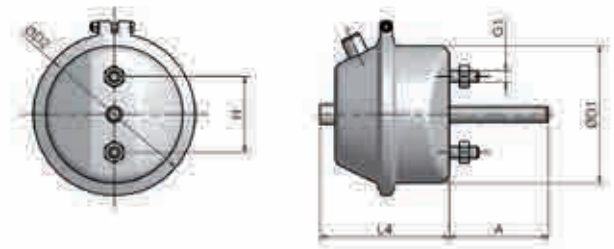
COD. 813104



COD. 813101

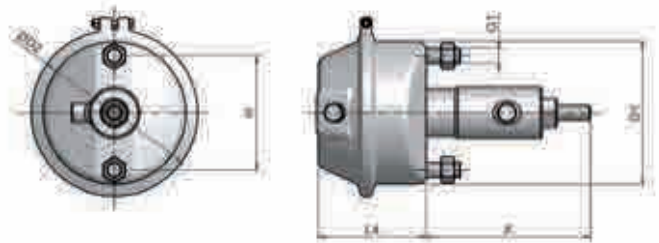
COD. 813102

BRAKE CHAMBER



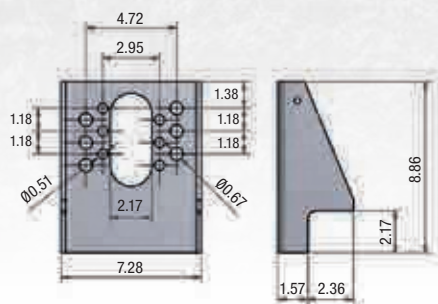
CODE	TYPE	TECHNICAL DATA						STROKE	WEIGHT
		ØD1 (in)	ØD2 (in)	G1 (mm)	H (in)	L4 (in)	A (in)	in	lb
81401	(9")	4.49	5.24	M12 x 1.75	3.00	4.33	7.28	1.89	4.0
81402	(12")	4.76	5.71	M12 x 1.75	3.00	4.72	7.87	2.87	4.6
81403	(16")	5.43	6.42	M12 x 1.75	3.00	5.12	7.87	3.15	5.8
81404	(20")	5.91	6.93	M16 x 1.5	4.75	5.12	7.87	3.11	6.7
81405	(24")	6.34	7.28	M16 x 1.5	4.75	5.12	7.87	3.07	8.1
81406	(30")	7.17	8.19	M16 x 1.5	4.75	5.51	7.87	3.39	10.4

DUAL SUPPLY ACTUATORS



CODE	TYPE	TECHNICAL DATA						STROKE	WEIGHT
		ØD1 (in)	ØD2 (in)	G1 (mm)	H (in)	L4 (in)	A (in)	in	lb
81501	12" AIR	4.84	5.91	M12 x 1.75	3.00	4.33	10.47	2.87	7.7
	25mm OIL							2.95	
81502	20" AIR	5.94	7.09	M16 x 1.5	4.72	4.61	10.63	3.07	10.1
	30mm OIL							2.95	
81503	24" AIR	6.34	7.72	M16 x 1.5	4.72	4.61	10.83	3.07	11.0
	35mm OIL							2.95	

BRACKET FOR BRAKE CHAMBER



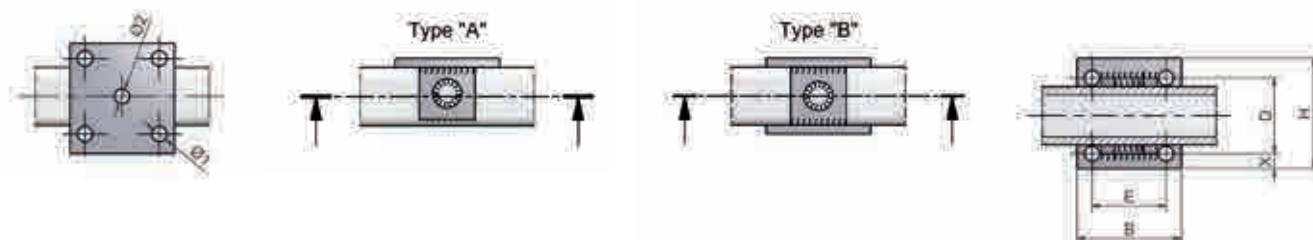
COD. 46106305

ADAPTER SUPPORT FOR HYDRAULIC CYLINDER



COD. 464211

STANDARD FIXING PLATES



CODE		SPRING		SQUARE		EXD	B X H	THICKNESS	Ø 1	Ø 2	X
TYPE "A"	TYPE "B"	(mm)	in	(mm)	in	in	in	in	in	in	in
A01	B01	70	2.76	80	3.15	3.66 x 4.13	5.51 x 6.30	0.59	0.83	0.83	1.26
A02	B02			90	3.54	3.66 x 4.53	5.51 x 6.69	0.59	0.83	0.83	1.26
A03	B03			100	3.94	3.66 x 4.92	5.51 x 7.09	0.59	0.83	0.83	1.26
A04	B04	80	3.15	80	3.15	4.06 x 4.13	5.91 x 6.30	0.59	0.83	0.83	1.26
A05	B05			90	3.54	4.06 x 4.53	5.91 x 6.69	0.59	0.83	0.83	1.26
A06	B06			100	3.94	4.25 x 5.12	6.30 x 7.48	0.59	1.02	0.83	1.34
A07	B07	100	3.94	90	3.54	4.92 x 4.61	7.09 x 7.09	0.79	0.91	0.94	1.46
A08	B08			100	3.94	5.04 x 5.12	7.09 x 7.48	0.79	1.02	0.94	1.34
A09	B09			110	4.33	5.04 x 5.51	7.09 x 7.87	0.79	1.02	0.94	1.34
A10	B10			120	4.72	5.04 x 5.91	7.09 x 8.27	0.79	1.02	0.94	1.34
A11	B11			130	5.12	5.04 x 6.30	7.09 x 8.66	0.79	1.02	0.94	1.34
A13	B13	120	4.72	150	5.91	5.04 x 7.09	7.09 x 9.45	0.79	1.02	0.94	1.34
A14	B14			90	3.54	5.83 x 4.72	7.87 x 7.09	0.79	1.02	0.94	1.34
A15	B15			100	3.94	5.83 x 5.12	7.87 x 7.48	0.79	1.02	0.94	1.34
A16	B16			110	4.33	5.83 x 5.51	7.87 x 7.87	0.79	1.02	0.94	1.34
A17	B17			120	4.72	5.83 x 5.91	7.87 x 8.27	0.79	1.02	0.94	1.34
A18	B18			130	5.12	5.83 x 6.30	7.87 x 8.66	0.79	1.02	0.94	1.34
A20	B20			150	5.91	5.83 x 7.09	7.87 x 9.45	0.79	1.02	0.94	1.34

ACCESSORIES

AUTOMATIC SYSTEM FOR WHEEL INFLATION



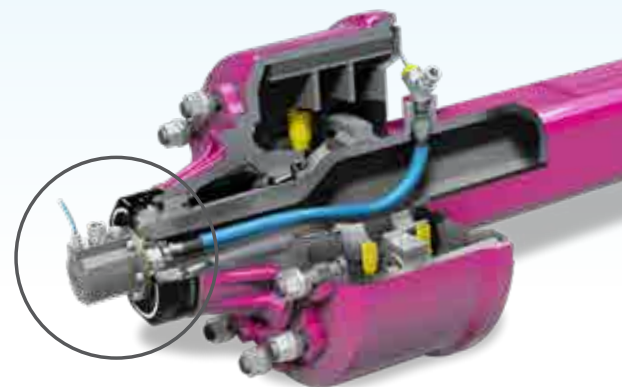
RDS / UNIVERSAL

- Universal rotary union for all axle types.
- Standard seal.
- Maintenance free – no grease nipple.
- Available as dual-line and single-line rotary union.



RDS / ADR PREMIUM SEAL

- Maintenance free rotary union bolted onto the ADR grease cap.
- Ready drilled grease cap for optimized protection against moisture and dust (part of PTG-kit).
- Quick and easy installation, available as dual-line and single-line rotary union.
- Premium long life protection Seal.



Important information

General information

This manual contains the main maintenance information applicable to ADR axles, ADR mechanical type suspensions and ADR hydraulic suspensions.

The maintenance intervals indicated in the maintenance instructions must be followed to keep the vehicle in safe conditions and in full efficiency for road circulation.

In the event damages makes the copy of this manual in your possession unusable, the user can request a copy from customer service, specifying the type of product and serial number indicated on the product identification plate. Please contact customer service for information on updates ADR has made to its products. In any event, the latest version of this maintenance manual can be found in the download section on site www.adraxles.com.

ADR Axles USA Inc.

e-mail:

engineering_adrusa@adraxles.com

ADR cannot be held liable for damages caused by:

- improper product use;
- use by unqualified and/or unskilled personnel;
- incorrect installation (if by the customer);
- inadequate product maintenance or cleaning;
- unauthorised alterations or work;
- incorrect manoeuvres;
- use of non original spare parts;
- use of unforeseen accessories or not authorised in writing;
- full or partial failure to follow the instructions;
- exceptional events.

Warranty Conditions

As a reminder to the user, ADR guarantees the technical specifications, the quality of the parts, and the correct operation of the supplied products according to the stated parameters. The manufacturer's warranty does not cover parts whose repair or replacement is required due to natural wear or defects caused by incorrect use of the product by the customer, such as (but not limited to):

- unauthorized alterations
- use other than that indicated by ADR
- product overloads beyond ADR specifications
- negligent or insufficient maintenance
- work carried out in ways inconsistent with ADR instructions
- failure to replace parts subject to wear, etc.

Please remember that any modification to the vehicle voids the original approval and requires a new approval procedure, or the vehicle registration document will be invalid until compliance is restored.

If product defects are found, the customer must report them in writing.

This manual was originally drafted in Italian and it is the only official language for which the manufacturer is liable in the event of translation inconsistencies.

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