



BUILD AUTO PARTS BOUTIQUE SERVICE HIGH-END CUSTOMERS

SHANDONG ZONXIN AUTO PARTS CO.,LTD

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Shandong Zonxin Auto Parts CO.,LTD

SCIENTIFIC AND TECHNOLOGICAL
INNOVATION LEADS THE TREND

ENTERPRISE PROFILE

Shandong Zonxin Auto Parts CO.,LTD was established in August 2008. It is located in the economic development zone of Liangshan County, Shandong Province, a trailer production base in China. It is a national high-tech enterprise integrating design, R&D and precision manufacturing. The company has a high-level professional design and development team and advanced production equipment. It currently has more than 180 employees, including 32 mechanical engineering and technical personnel. The total assets are 120 million yuan, and the annual production capacity is more than 200 million yuan.

At present, the company has two invention patents and more than 20 utility model patents. The self-developed, designed and produced air suspension, disc axle and other products have filled the domestic blank, and the product performance has reached the international advanced level.

Over the years, with the development concept of "innovative, technological and service-oriented", the company has continuously optimized the design and adhered to scientific and technological innovation in combination with the actual market and customer needs; While adhering to technological innovation, combined with the current market situation and actual needs of customers, continuously optimize product design and innovation, develop and manufacture more economical, practical, and advanced technical semi-trailer accessories, and can also design and produce special products according to customers' special requirements.

The company took the lead in the industry to pass the ISO9001:2008 and ISO/TS16949:2009 quality management system certification of American Quality Certification (AQA) International Co., Ltd., and fully implemented the "5S" lean management and ERP information management.

The company insists on implementing the strategy of strengthening the enterprise with talents, and vigorously introduces and cultivates technical talents. In June 2019, our company specially hired Mr. Guo Konghui, the Chinese Academy of Engineering, to establish an "academician workstation" in our company, which laid a solid foundation for the development of enterprises.

The company has been rated as: "National High-tech Enterprise", "Innovative Private Enterprise in Shandong Province", "Professional, Specialized and Innovative Enterprise in Shandong Province", "One Enterprise, One Technology Innovative Enterprise in Shandong Province", "Shandong Province One enterprise, One technology Research and Development Center", "Jining Special Auto Parts Engineering Technology Research Center" and other honorary titles.

Shandong Zonxin Auto Parts CO.,LTD is willing to work together with more excellent special-purpose vehicle manufacturers to create a win-win situation and create brilliance together.

MAIN PRODUCT LINE

The company's main products are leaf springs suspension system, air suspension system, axle and other special vehicle accessories products.

The annual production capacity of main products is:

1. Semi trailer mechanical suspension: 30000 sets,
2. Air suspension system: 12000 sets,
3. Ordinary axle: 30000 pieces,
4. Axle beam: 30000 pieces,
5. Disc brake type axle: 12000 pieces.

Our company's products have two major series, more than 30 varieties. The products are mainly sold to more than 20 provinces and cities, such as Hebei, Henan, Shandong, Hubei, Hunan, Shanxi, Anhui, Xinjiang, Inner Mongolia, Liaoning. And exported to more than twenty countries all over the world, especially for north American and south American market.

ENTERPRISE CULTURE



Product Concept

Science and technology leading, Product Innovation
Strict Process Control, Strict Inspection System
Comprehensive Product Quality Assurance
Technical Team and Advanced Design Concept
We only make high-quality products



Service Concept

All-round Service, Growth with customer
Provide Satisfactory technical solution for customer
Instruct customers to assemble and use products
Thoughtful and Prompt after-sales service system
Provide one-stop cordial service for terminal customers
All work to enhance value for customer



Talent Concept

Wise men make good use of their talents
Perfect training, improve working ability
Voluntary mutual selection to maximize efficiency
Let the right person do the right thing

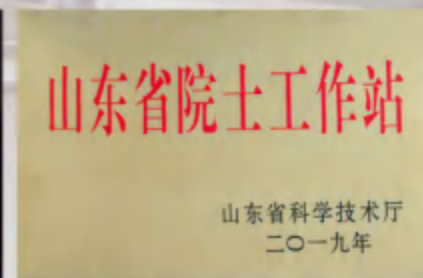
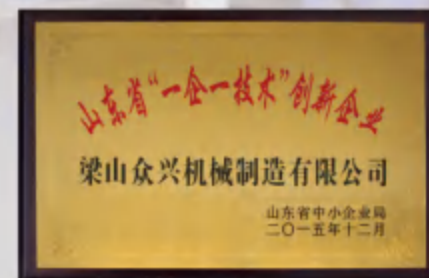
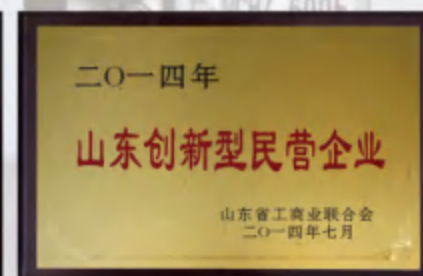


Corporate Vision

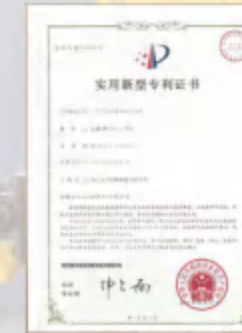
To build a scientific and technological, innovative, service-oriented special vehicle accessories first-class production Enterprise



HONOR AND QUALIFICATION



NATIONAL PATENT



THE EXHIBITION HISTORY



EXTERNAL COMMUNICATION AND COMPANY ACTIVITIES



The chairman and the technical researchers had technical exchange with academician guo konghui



Academician guo and his team are on the scene of new product development



Employee welding skills competition



Visiting customers from the UK



Automobile air suspension technology seminar



Visiting Customers from Islamabad, Pakistan



The game process



The chairman signed a cooperation agreement with the customer in Pakistan



General manager schmitz visited for business negotiation



The chairman signed a contract with the Shanghai Mingjiang



Business activity

EQUIPMENT AND PRODUCTION CAPACITY



SHARPEN YOUR TOOL BEFORE ACHIEVE YOUR WORK



BRIEF INTRODUCTION TO ACADEMICIAN WORKSTATION OF SHANDONG PROVINCE

In June 2019, approved by the science and technology department of Shandong province, Shandong Zonxin Auto Parts CO.,LTD

and Mr. Guo konghui, academician of the Chinese Academy of Engineering, and his team jointly established the academician workstation of shandong province to solve problems of automobile suspension system and transform technological achievements.

The establishment of "academician workstation of shandong province" of

Shandong Zonxin Auto Parts CO.,LTD will carry out scientific research on "commercial vehicle air suspension system", "special automobile rubber suspension system", "heavy mining car oil and gas suspension system", "special vehicle intelligent walking mechanism" and other projects. Guo konghui, academician of Chinese Academy of Engineering, serves as the chief technical adviser to guide the development of core technologies related to products, and carry out research on key technologies and research and development of new products.

"the Shandong province academician workstation" provides a driving force of science and technology, zonxin will be in key project research and development, talents training, science and technology cooperation and communication, the research on technological transformation play an important role, greatly promote

Shandong Zonxin Auto Parts CO.,LTD, independent innovation and talent development, realize the transformation of scientific and technological achievements and production, the success of the docking.



Academician/Konghui Guo

Famous automobile design research expert
Academician of Chinese Academy of Engineering
Jilin university automotive academic leader, professor,
doctoral supervisor

He specializes in automotive system dynamics and related fields. The research results in tire mechanics, automobile dynamics and human-vehicle closed-loop control dynamics have reached the world advanced level. He was the first scholar who introduced modern system mechanics and random vibration into automobile science. In the field of automobile vibration and load, the systematic and groundbreaking works have important influence at home and abroad. It is also the main pioneer and academic leader in the field of automotive science and technology, such as vehicle handling stability, smoothness, braking and driving stability and tire mechanics. Had presided over a variety of new type of car development and a number of industry major subject of study, the system theory and experimental study, an innovative solution to the our country under the condition of not large area dedicated testing ground of high speed maneuvering test evaluation and a series of design theory and practical problems, and made a large number of advanced international research results, has obtained the progress prize in science and technology of national and ministerial 9, published over 460 papers at home and abroad, three publishing monographs, has trained a large number of senior technical personnel at the same time, for our country automobile industry has made important contributions to the development of science and technology.

SUSPENSION SERIES

Company Advantage:

1.Our company possess strong design ability, according to different models, vehicle carrying goods features and road conditions and other operating situations, Zhongxing Machinery try to create a low noise, smoothness, soft line suspension system, and tailored design with different series of leaf spring suspension system.

2.Suspension series with complete, convenient for users to choose and match.

3.The same series suspension product model is complete, suitable for all kinds of height vehicle.

4.The company's products to implement a one-stop family service, to solve the use of customers worry.



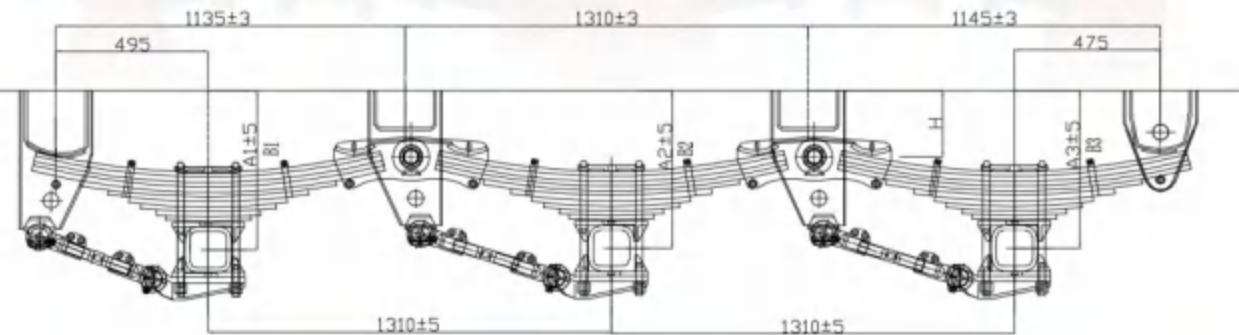
Product features:

- 1.The product design is reasonable, good quality and high performance.
- 2.The product uses the high strength steel plate to press the molding, has increased the strength and reduced the weight, and then bring the intangible benefit to the customer.
- 3.The product uses the independently developed torque arm bush with good durability, has solved the trouble in the use process of changing torque arm.
- 4.Our company produces the core stressed components of the suspension system by ourselves to ensure the consistency of product quality and greatly reduce the potential safety risks of the system.
- 5.The whole system is maintain easily.

AMERICAN TYPE STANDARD SUSPENSION SERIES



ZX/XJ.MZ.3 Series Tridem Mechanical Suspension (16*90*9) Drawing:



ZX/XJ.MZ.3 Series Tridem Mechanical Suspension (16*90*9) :

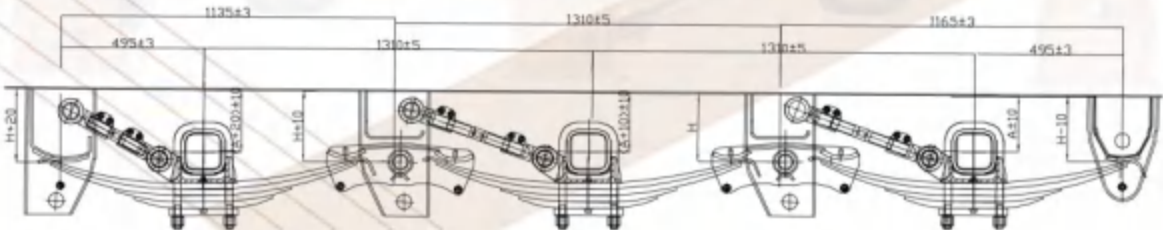
Model	A1(mm)	B1(mm)	A2(mm)	B2(mm)	A3(mm)	B3(mm)	H(mm)	Capacity(Kg)
ZX/XJ.MZ-110.3	425	395	415	385	405	375	110	16000×3(2/1)
ZX/XJ.MZ-130.3	445	415	435	415	425	395	130	16000×3(2/1)
ZX/XJ.MZ-150.3	465	435	455	425	445	415	150	16000×3(2/1)
ZX/XJ.MZ-180.3	495	465	485	455	475	445	180	16000×3(2/1)
ZX/XJ.MZ-210.3	525	495	515	485	505	475	210	16000×3(2/1)
ZX/XJ.MZ-230.3	545	515	535	505	525	495	230	16000×3(2/1)
ZX/XJ.MZ-250.3	565	535	555	525	545	515	250	16000×3(2/1)
ZX/XJ.MZ-270.3	585	555	575	545	565	535	270	16000×3(2/1)
ZX/XJ.MZ-300.3	615	585	605	575	595	565	300	16000×3(2/1)
ZX/XJ.MZ-320.3	635	605	625	595	615	585	320	16000×3(2/1)

- Remark:
- 1. According to customers' requirements to choose more weight, standard and light weight mechanical suspension.
 - 2. "A1、 A2、 A3" size is for Non-loading Condition.
 - 3. "B1、 B2、 B3" size for The rated-loading Condition.
 - 4. Leaf Spring can be optional, Axle Space : 1310mm/1360mm, The height of Front hanger, Middle hanger, Rear hanger also be optional.
 - 5. Mechanical suspension chasis parts can mach round or square axle.
 - 6. The size of drawing is for reference. The specific size is subject to the actual situation. No notice will be given for product update.

AMERICAN UNDERSLUNG SUSPENSION SERIES



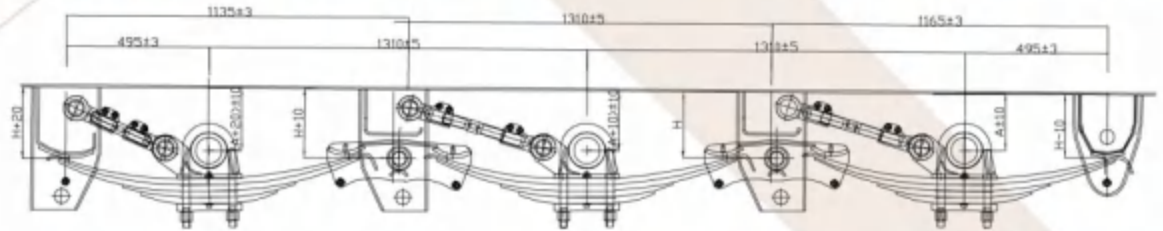
American type underslung (square axle) (90*16*9) mechanical suspension drawing:



American type underslung (square axle) (90*16*9) Mechanical Suspension specifications:

型 号	ZX /XJ.MF-230	ZX /XJ.MF-250	ZX /XJ.MF-270	ZX /XJ.MF-300	ZX /XJ.MF-320
H (mm)	230	250	270	300	320
A (mm)	200	230	240	270	290

American type underslung (round axle) (90*16*9) Mechanical Suspension drawing:



American type underslung (round axle) (90*16*9) mechanical suspension specifications:

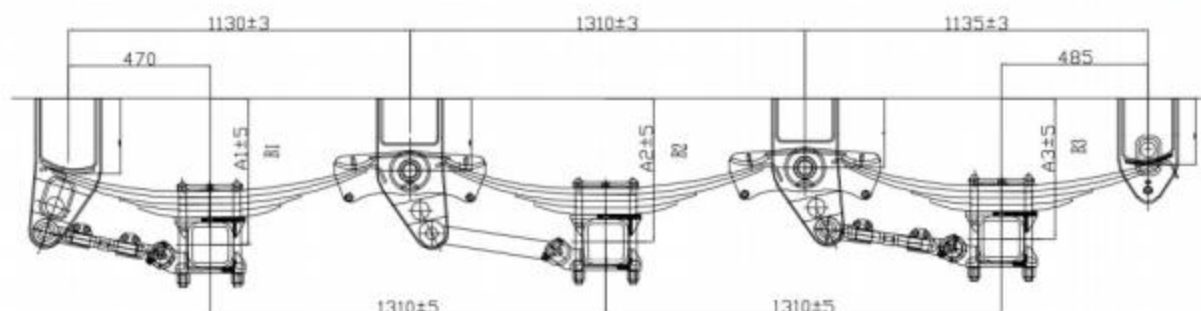
型 号	ZX /XJ.MF-230	ZX /XJ.MF-250	ZX /XJ.MF-270	ZX /XJ.MF-300	ZX /XJ.MF-320
H (mm)	230	250	270	300	320
A (mm)	190	210	230	260	280

- Remark:
- 1. "A" is for Non-loading Condition.
 - 2. The number of leaf spring can select, leaf spring plate can choose different structure.
 - 3. Can use for round axle and square axle.
 - 4. The drawing size is for customer reference , and it can be customized.

LIGHT SUSPENSION FIRST SERIES



ZX/XJ.Q1.3 Three-axis 4-piece (20x90x4) Mechanical Suspension Series Drawing



ZX/XJ.Q1.3 Three-axis 4-piece (20x90x4) Mechanical Suspension Series Technical Data Sheet

Model	A1(mm)	B1(mm)	A2(mm)	B2(mm)	A3(mm)	B3(mm)	H(mm)	Capacity (kg)
ZX/XJ.Q1-110.3	360	325	350	315	340	305	110	1300*3(2/1)
ZX/XJ.Q1-130.3	380	345	370	335	360	325	130	1300*3(2/1)
ZX/XJ.Q1-150.3	400	365	390	355	380	345	150	1300*3(2/1)
ZX/XJ.Q1-180.3	430	395	420	385	410	375	180	1300*3(2/1)
ZX/XJ.Q1-210.3	460	425	450	415	440	405	210	1300*3(2/1)
ZX/XJ.Q1-230.3	480	445	470	435	460	425	230	1300*3(2/1)
ZX/XJ.Q1-250.3	500	465	490	455	480	445	250	1300*3(2/1)
ZX/XJ.Q1-270.3	520	485	510	475	500	465	270	1300*3(2/1)

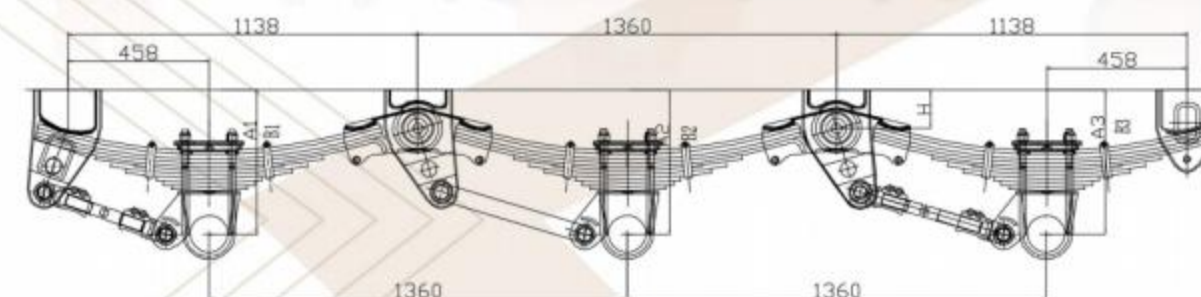
Remark:

1. "A1、A2、A3" size is for non-loading condition.
2. "B1、B2、B3" size is for rated-loading condition.
3. The number of leaf springs can be optional, Axle space: 1310mm/1360mm, and the height difference of Front hanger, Middle hanger, Rear hanger can also be optional.
4. Mechanical suspension chassis parts can match round or square axle.
5. The size of drawing is for reference. The specific size is subject to the actual situation. No notice will be given for product update.

LIGHT SUSPENSION THIRD SERIES (EUROPEAN TYPE)



ZX/XJ.Q3.3 Series Mechanical Suspension (13*75*10) Drawing:



ZX/XJ.Q3.3 Series Mechanical Suspension (13*75*10) Specification:

Model	A1(mm)	B1(mm)	A2(mm)	B2(mm)	A3(mm)	B3(mm)	H(mm)	Capacity(Kg)
ZX/XJ.Q3-H.3	465	430	465	430	465	430	125	11000×3 (2/1)
ZX/XJ.Q3-M.3	440	405	440	405	440	405	125	11000×3 (2/1)
ZX/XJ.Q3-L.3	415	380	415	380	415	380	125	11000×3 (2/1)
ZX/XJ.Q3-HML.3	465	430	440	405	415	380	125	13000×3 (2/1)

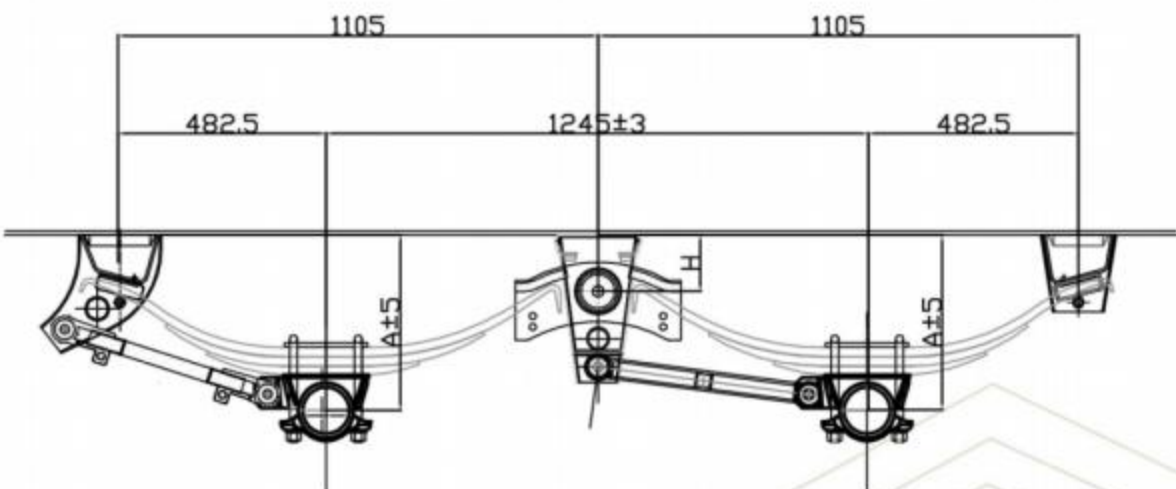
Remark:

1. According to customers' requirements to choose more weight, standard and light weight mechanical suspension.
2. "A1、A2、A3" size is for Non-loading Condition.
3. "B1、B2、B3" size for The rated-loading Condition.
4. Leaf Spring can be optional, Axle Space : 1310mm/1360mm, The height of Front hanger, Middle hanger, Rear hanger also be optional.
5. Mechanical suspension chassis parts can match round or square axle.
6. The size of drawing is for reference. The specific size is subject to the actual situation. No notice will be given for product update.

LIGHT SUSPENSION SECOND SERIES [XJSF-1 TYPE]



XJ.SF-2 Mechanical Suspension (22*75*3) Drawing



ZX/XJ.SF.2 Three Axles Three Leaves (22*75*3) Leaf Spring Suspension Series

Model	A1(mm)	B1(mm)	H(mm)	Capacity (kg)
ZX/XJ.SF-2	390	360	135	1000*3(2/1)

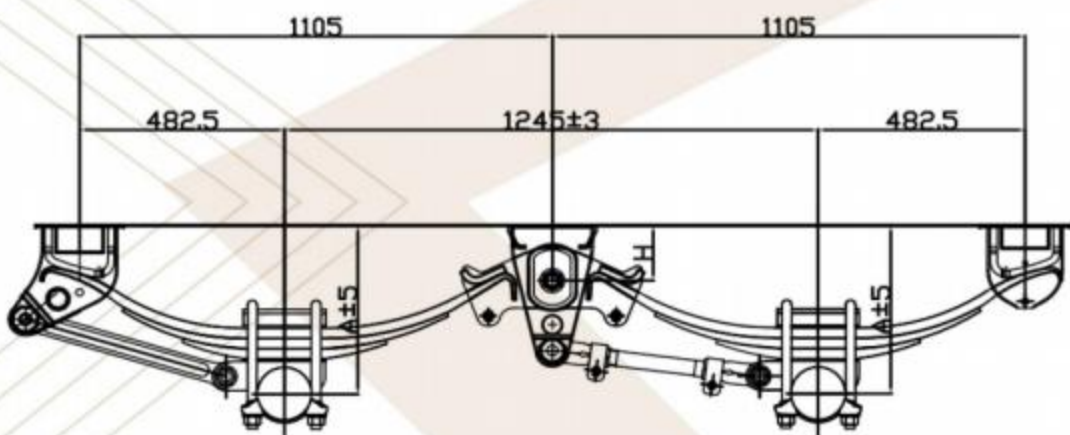
Remark:

- 1.“A” is for Non-loading Condition.
- 2.“B” is for the rated-loading Condition.
- 3.Leaf Spring can be optional.
- 4.Mechanical suspension chassis parts can match round or square axle.
- 5.The size of drawing id for reference. The specific size is subject to actual situation. No notice will be given for product update.

LIGHT SUSPENSION FOURTH SERIES [66-1 TYPE]



ZX/XJ.Q4-2 Mechanical Suspension (22*75*3) Drawing



ZX/XJ.Q4-2 Three Axles Three Leaves (22*75*3) Leaf Spring Suspension Series

Model	A(mm)	B(mm)	H(mm)	Capacity (kg)
ZX/XJ.66-L.2	390	360	135	1000*3(2/1)
ZX/XJ.66-M.2	415	385	160	1000*3(2/1)
ZX/XJ.66-H.2	440	410	185	1000*3(2/1)

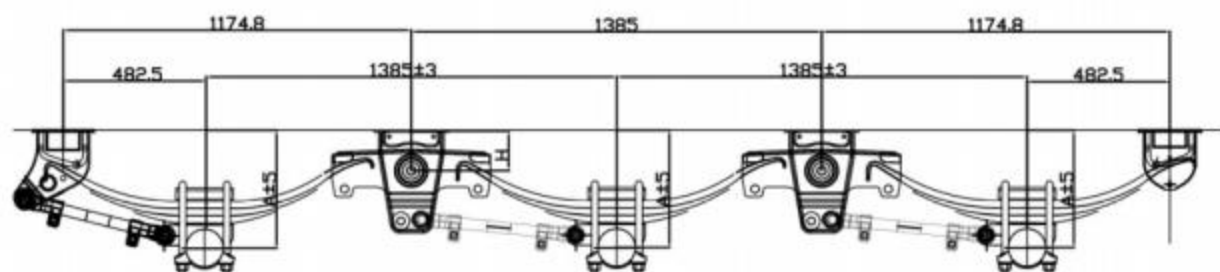
Remark:

- 1.“A” is for Non-loading Condition.
- 2.“B” is for the rated-loading Condition.
- 3.Leaf Spring can be optional.
- 4.Mechanical suspension chassis parts can match round or square axle.
- 5.The size of drawing is for reference. The specific size is subject to actual situation. No notice will be given for product update.

LIGHT SUSPENSION FOURTH SERIES [66-2 TYPE]



ZX/XJ.Q4-3 Mechanical Suspension (22*75*3) Drawing



ZX/XJ.Q4.3 Three Axles Three Leaves (22*75*3) Leaf Spring Suspension Series

Model	A(mm)	B(mm)	H(mm)	Capacity (kg)
ZX/XJ.66-L.3	390	360	135	1000*3(2/1)
ZX/XJ.66-M.3	415	385	160	1000*3(2/1)
ZX/XJ.66-H.3	440	410	185	1000*3(2/1)

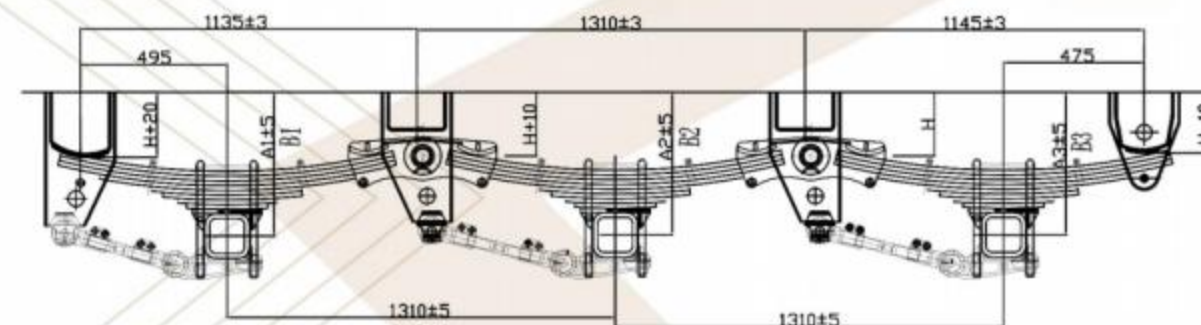
Remark:

1. "A" is for Non-loading Condition.
 2. "B" is for the rated-loading Condition.
 3. Leaf Spring can be optional.
 4. Mechanical suspension chassis parts can match round or square axle.
- The size of drawing is for reference. The specific size is subject to actual situation. No notice will be given for product update.

AMERICAN REGULAR SUSPENSION SERIES



ZX/XJ.MB.03 Mechanical Suspension (16*90*8) Drawing



ZX/XJ.MB.3 Three Axles Eight Leaves (16*90*8) Leaf Spring Suspension Series

Model	A1(mm)	B1(mm)	A2(mm)	B2(mm)	A3(mm)	B3(mm)	H(mm)	Capacity(Kg)
ZX/XJ.M-110.3	395	365	385	355	375	345	110	1300*3(2/1)
ZX/XJ.M-130.3	415	385	405	375	395	365	130	1300*3(2/1)
ZX/XJ.M-150.3	435	405	425	395	415	385	150	1300*3(2/1)
ZX/XJ.M-180.3	465	435	455	425	445	415	180	1300*3(2/1)
ZX/XJ.M-210.3	495	465	485	455	475	445	210	1300*3(2/1)
ZX/XJ.M-230.3	515	485	505	475	495	465	230	1300*3(2/1)
ZX/XJ.M-250.3	535	505	525	495	515	485	250	1300*3(2/1)
ZX/XJ.M-270.3	555	525	545	515	535	505	270	1300*3(2/1)
ZX/XJ.M-300.3	585	555	575	545	565	535	300	1300*3(2/1)
ZX/XJ.M-320.3	605	575	595	565	585	555	320	1300*3(2/1)

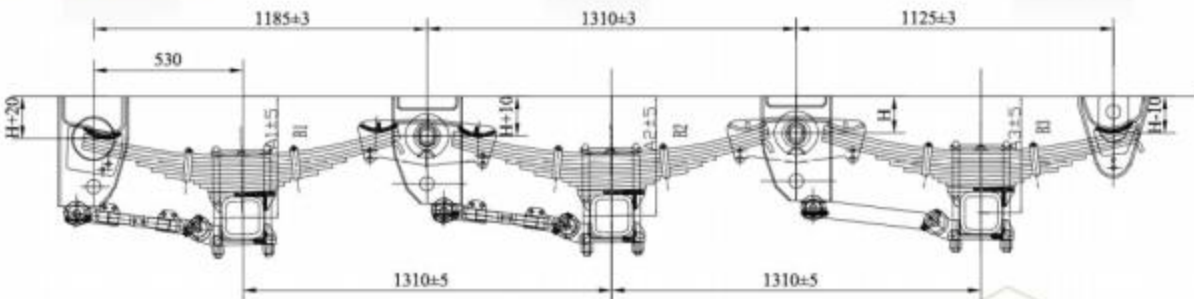
Remark:

1. According to customers' requirements to choose more weight, standard and light weight mechanical suspension.
2. "A1、A2、A3" size is for Non-loading Condition.
3. "B1、B2、B3" size for the Rated-loading Condition.
4. Leaf Spring can be optional, Axle Space: 1310mm/1360mm, and the height of Front hanger, Middle hanger, Rear hanger can also be optional.
5. Mechanical suspension chassis parts can match round or square axle.
6. The size of drawing is for reference. The specific size is subject to the actual situation. No notice will be given for product update.

JAPANESE TYPE SUSPENSION SERIES



ZX/XJ.R.3 TYPE THREE AXLES TEN LEAVES (13X90X10) LEAF SPRING SUSPENSION SERIES SCHEMATIC:



ZX/XJ.R.3 TYPE THREE AXLES TEN LEAVES (13X90X10) LEAF SPRING SUSPENSION SERIES TECHNICAL PARAMETER TABLE:

MODEL	A1(mm)	B1(mm)	A2(mm)	B2(mm)	A3(mm)	B3(mm)	H(mm)	Capacity(Kg)
ZX/XJ.R-110.3	407	377	400	370	390	360	110	13000×3(2/1)
ZX/XJ.R-130.3	427	397	420	390	410	380	130	13000×3(2/1)
ZX/XJ.R-150.3	447	417	440	410	430	400	150	13000×3(2/1)
ZX/XJ.R-180.3	477	447	470	440	460	430	180	13000×3(2/1)
ZX/XJ.R-210.3	507	477	500	470	490	460	210	13000×3(2/1)
ZX/XJ.R-230.3	527	497	520	490	510	480	230	13000×3(2/1)
ZX/XJ.R-250.3	547	517	540	510	530	500	250	13000×3(2/1)
ZX/XJ.R-270.3	567	537	560	530	550	520	270	13000×3(2/1)
ZX/XJ.R-300.3	597	567	590	560	580	550	300	13000×3(2/1)
ZX/XJ.R-320.3	617	587	610	580	600	570	320	13000×3(2/1)

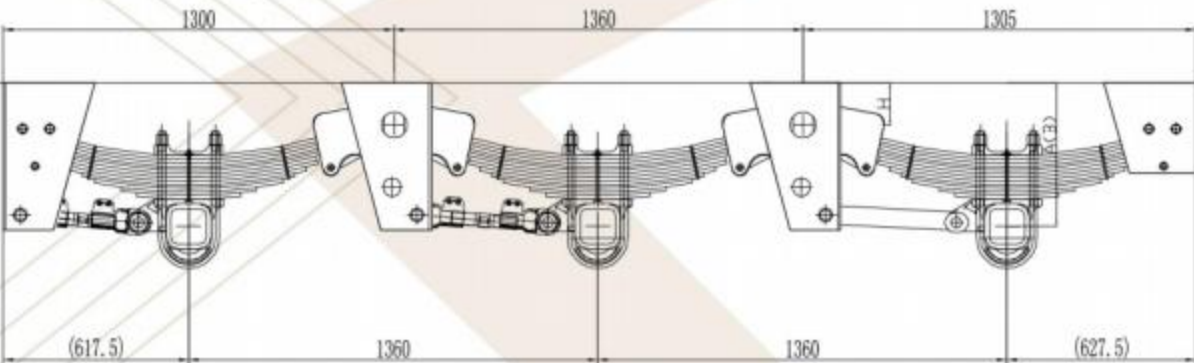
Remark:

- "A1, A2, A3" is the size at no load.
- "B1, B2, B3" is the size at rated load.
- The number of leaf springs can be selected, you can choose hanger or axle seat to adjust the height difference.
- Suspension attachments are selected according to different matching of round axle and square axle.
- The dimensions shown are for reference only, and the specific size is subject to actual conditions, product updates are not notified.

GERMAN B TYPE SUSPENSION SERIES



ZX/XJ.GB.3 TYPE THREE AXLES TWELVE LEAVES (12X100X12) LEAF SPRING SUSPENSION SERIES SCHEMATIC:



ZX/XJ.GB.3 TYPE THREE AXLES TWELVE LEAVES (12X100X12) LEAF SPRING SUSPENSION SERIES TECHNICAL PARAMETER TABLE:

MODEL	ZX/XJ.GB.140	ZX/XJ.GB.210	ZX/XJ.GB.250
H (mm)	140	210	250
A (mm)	480	550	590
B (mm)	450	520	560

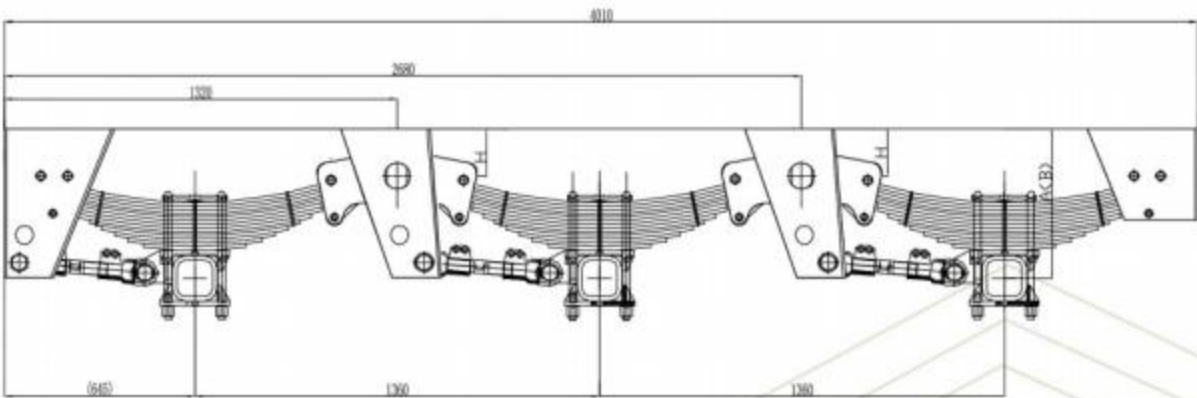
Remark:

- "A" is the size at no load.
- "B" is the size at rated load.
- The number of leaf springs can be selected.
- According to customer's requirements, 8mm or 10mm can be chosen.
- The dimensions shown are for reference only, and the specific size is subject to actual conditions, product updates are not notified.

GERMAN F TYPE SUSPENSION SERIES



ZX/XJ.GF3 Tri Suspension With Twelve Leaf Springs (12x100x12) Diagram:



ZX/XJ.GF3 Tri Suspension With 12 Leaf Springs (12x100x12) Technical Data Sheet:

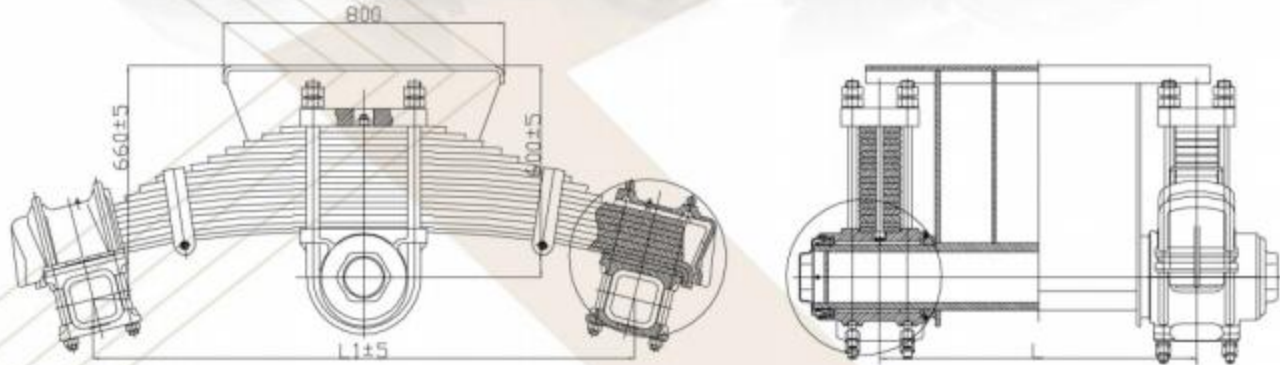
Model	ZX/XJ.GF.140	ZX/XJ.GF.155	ZX/XJ.GF.210
H (mm)	140	155	210
A (mm)	470	480	540
B (mm)	440	450	510

- Remark:
- 1. Dimension"A": Unladen.
 - 2. Dimension"B": Rated Laden.
 - 3. Spring Quantity Is Optional.
 - 4. The Side Thickness 8mm or 10mm Is Optional.
 - 5. The Size of Drawing only For Reference, The Specific Size Is Subject To Your Actual Conditions.

BOGIE SERIES



ZXDC BOGIE DIAGRAM:



ZXDC BOGIE TECHNICAL DATA SHEET:

Model	Capacity (T)	Bearing	Axle Beam (mm)	Brake (mm)	Track (mm)	Pilot Hole Diameter (mm)	Wheel Stud	Wheel Stud	WHEEL BASE L1	SPRING CENTER L
ZXDC24	24	33213 33118	150X150*12	Φ420X180	1840	Φ335	10-M22*1.5	Φ280	1400	980
ZXDC28	28	33215 32219	150X150*14	Φ420X200	1840	Φ335	10-M22*1.5	Φ280	1550	900
ZXBC32/1	32	32314 32222	150X150*16	Φ420X200	1850	Φ335	10-M22*1.5	Φ280	1550	900
ZXDC32/2	32	32314 32222	150X150*16	Φ420X200	2110	Φ335	10-M22*1.5	Φ280	1550	1150

- Remark:
- 1. Installation Is Optional.
 - 2. Optional Sticker and Round / Square Axle Available.
 - 3. Optional Connection-mode Available.
 - 4. The Size only For Reference, The Specific Size Is Subject To Your Actual Conditions.

AIR SUSPENSION ADVANTAGE

Smooth operation, safe and reliable:

- ◆ When the vehicle is running, the axle capacity is evenly, ensure a good braking effect.
- ◆ Air suspension can provide good performance and effective protection especially for hazardous chemicals, precision equipment, vulnerable and fragile products.
- ◆ The driving height is constant at full load or unload, reducing the loading and cargo damage rate.
- ◆ It can still drive safely in case of emergency, even if the airbag is completely leaky, it can be driven to the service station at a speed not higher than 20Km/h.

Effectively reduce operating costs:

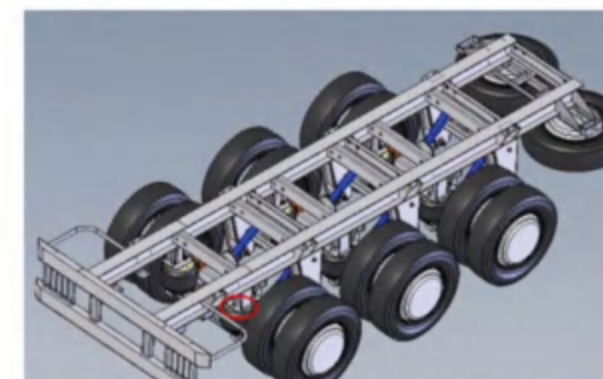
- ◆ The air suspension has a long performance, easy maintenance and low maintenance costs.
- ◆ It is light weight, can load more goods under the same capacity.
- ◆ Compared with the mechanical suspension, the air suspension saves fuel consumption, especially when the front axle is lifted, which can effectively reduce tire wear and reduce fuel consumption.
- ◆ Through the vehicle lifting device, the height of the vehicle can be adjusted to adapt to various loading and unloading platforms, which can save more time and improve loading and unloading efficiency.

Comfortable and environmental friendly:

- ◆ The vehicle runs smoothly, the driving is more comfortable, and the fatigue is reduced, and the co-pilot can also have a better rest environment.
- ◆ Air suspension can better reduce noise pollution during operation and protect the environment.
- ◆ The impact of the tire on the road surface is small, and the road surface is protected to a greater extent.

Zonxin Air Suspension has entered the market for more than ten years and has withstood the verification of the market. It has many customers and full range of product plans. It's suitable for various kinds of vehicles:

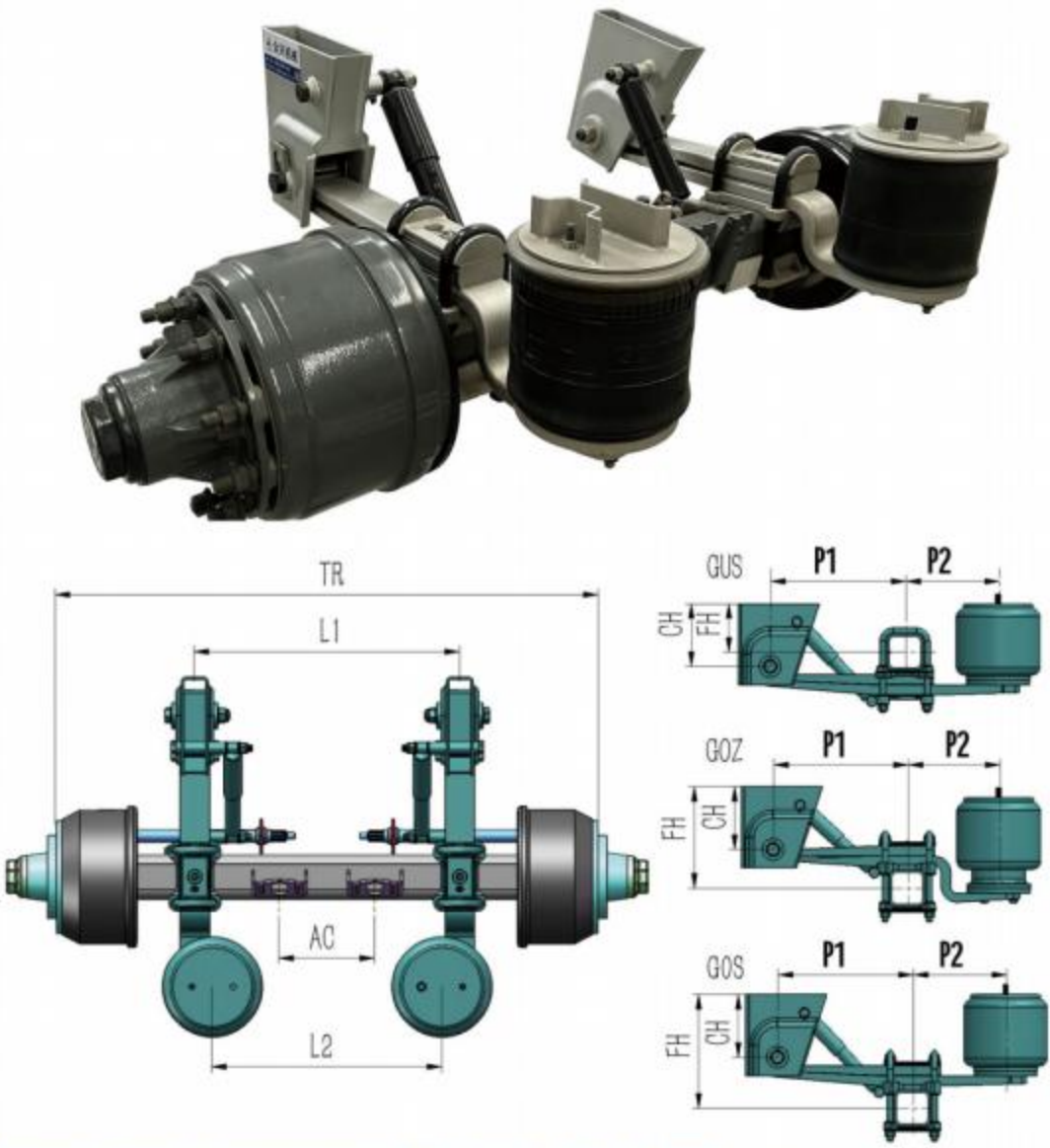
- ◆ Container transport semi-trailer, vehicle transport semi-trailer, low flat transport semi-trailer, tank transport semi-trailer refrigerated box insulation transport semi-trailer.



Zonxin Air Suspension will bring for you:

- ◆ Reduce fuel consumption, reduce tire wear and save maintenance costs.
- ◆ Improve operational efficiency, ensure long-term operation of vehicles, and improve attendance.
- ◆ Safe, reliable and comfortable, running smoothly and ensuring the safety of the vehicle.

13T GERMAN-TYPE AIR SUSPENSION

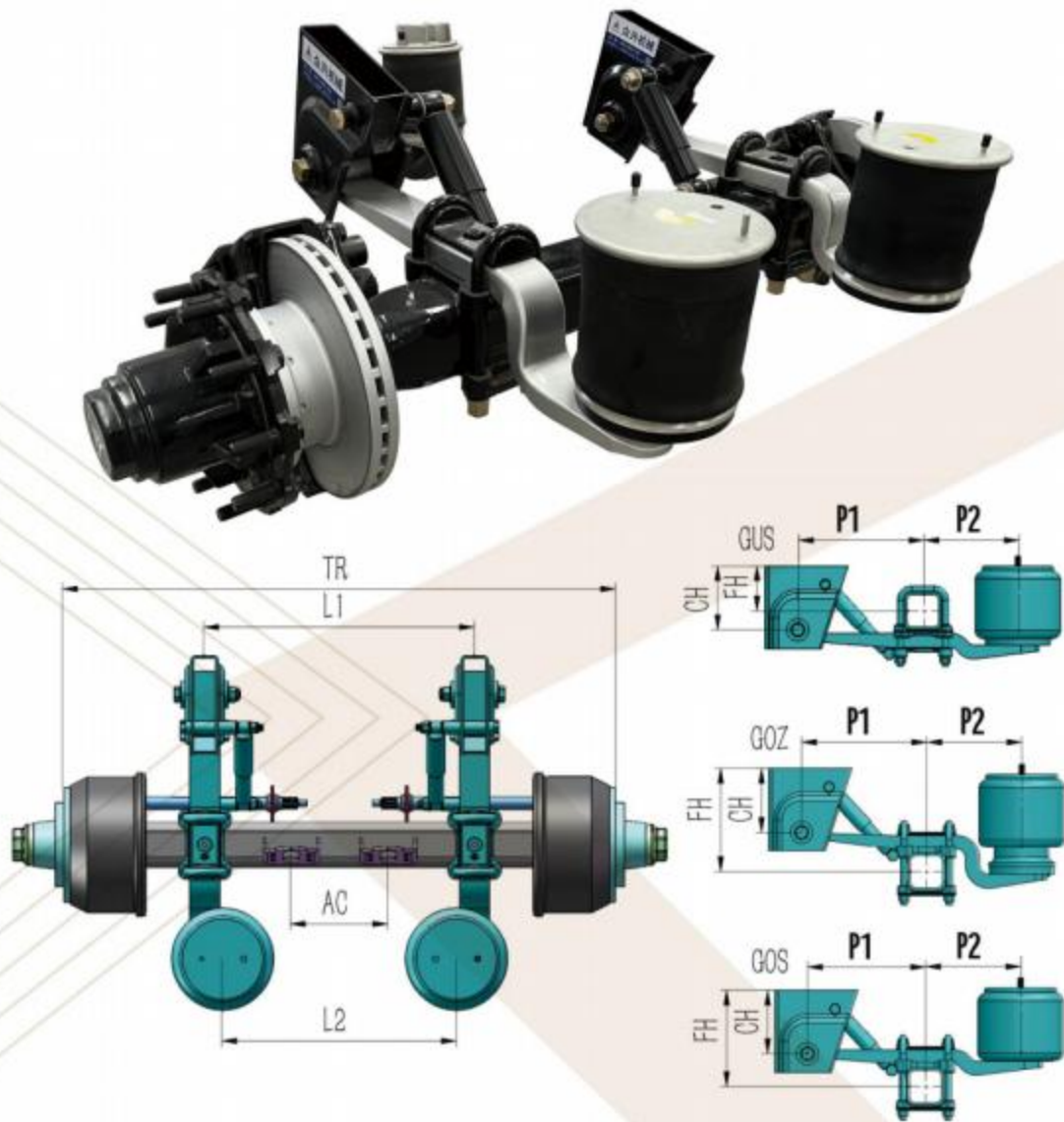


13T German-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam	Suspension arm
13T GERMAN TYPE AIR SUSPENSION	ZXAS13GUS	13T	200-340	≥1800	900	150□/127φ	100x40x2
	ZXAS13GOZ	13T	350-460	≥1800	900	150□/127φ	100x40x2
	ZXAS13GOS	13T	470-580	≥1800	900	150□/127φ	100x40x2

- Remark:
1. For overslung type air suspension, double-sided lifting is optional, and the lifting height is 120-140mm;
 2. For underslung type air suspension with drum type axle, the middle lift is optional, and the lift height is 100-120mm;
 3. The lifting method can be equipped with manual control valve or electric control valve;
 4. Optional rotary slide valve to control the lifting of the whole vehicle.

12T GERMAN-TYPE AIR SUSPENSION

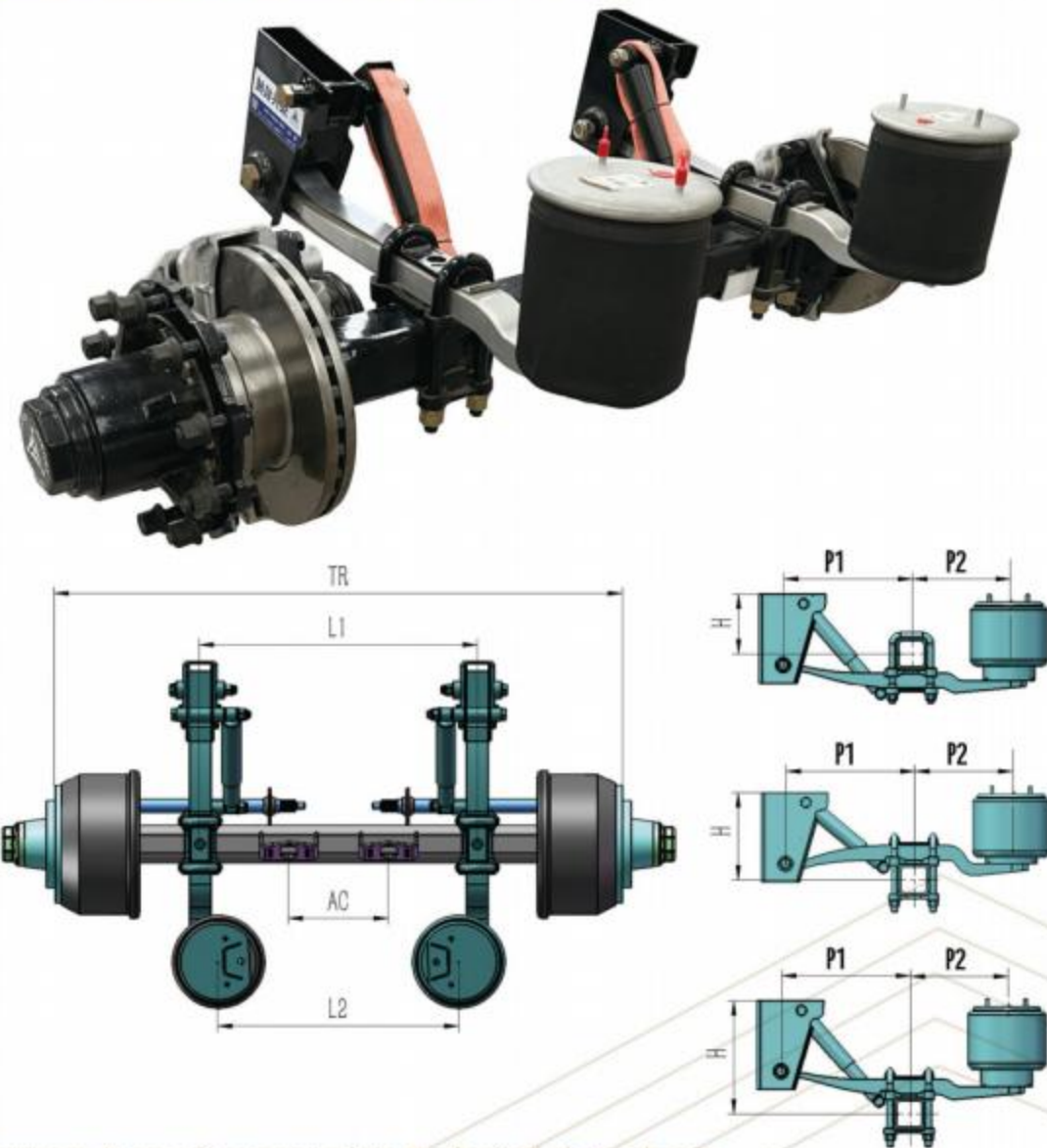


12T German-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam	Suspension arm
12T GERMAN TYPE AIR SUSPENSION	ZXAS12GUS	12T	200-330	≥1800	900	150□/127φ/120□	100x56
	ZXAS12GOZ	12T	350-440	≥1800	900	150□/127φ/120□	100x56
	ZXAS12GOS	12T	450-570	≥1800	900	150□/127φ/120□	100x56

- Remark:
1. For overslung type air suspension, double-sided lifting is optional, and the lifting height is 120-140mm;
 2. For underslung type air suspension with drum type axle, the middle lift is optional, and the lift height is 100-120mm;
 3. The lifting method can be equipped with manual control valve or electric control valve;
 4. Optional rotary slide valve to control the lifting of the whole vehicle.

10T GERMAN-TYPE AIR SUSPENSION

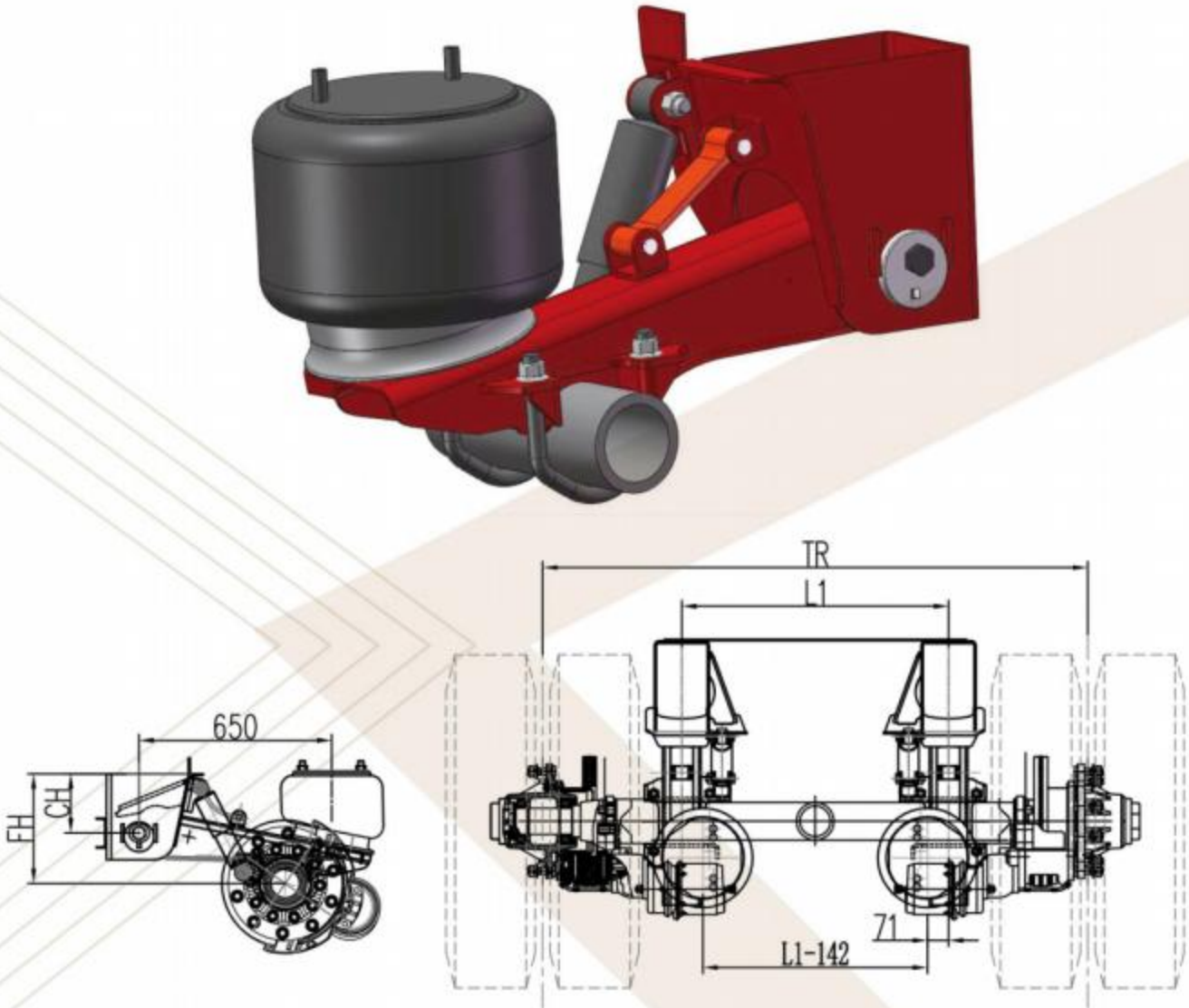


10T German-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam	Suspension arm
10T GERMAN TYPE AIR SUSPENSION	ZXAS10GUS	10T	200-280	≥1800	900	150□/127φ/120□	70x56
	ZXAS10GOZ	10T	320-440	≥1800	900	150□/127φ/120□	70x56
	ZXAS10GOS	10T	410-520	≥1800	900	150□/127φ/120□	70x56

- Remark:
- 1. For overslung type air suspension, double-sided lifting is optional, and the lifting height is 120-140mm;
 - 2. For underslung type air suspension with drum type axle, the middle lift is optional, and the lift height is 100-120mm;
 - 3. The lifting method can be equipped with manual control valve or electric control valve;
 - 4. Optional rotary slide valve to control the lifting of the whole vehicle.

AMERICAN 13T H-TYPE AIR SUSPENSION

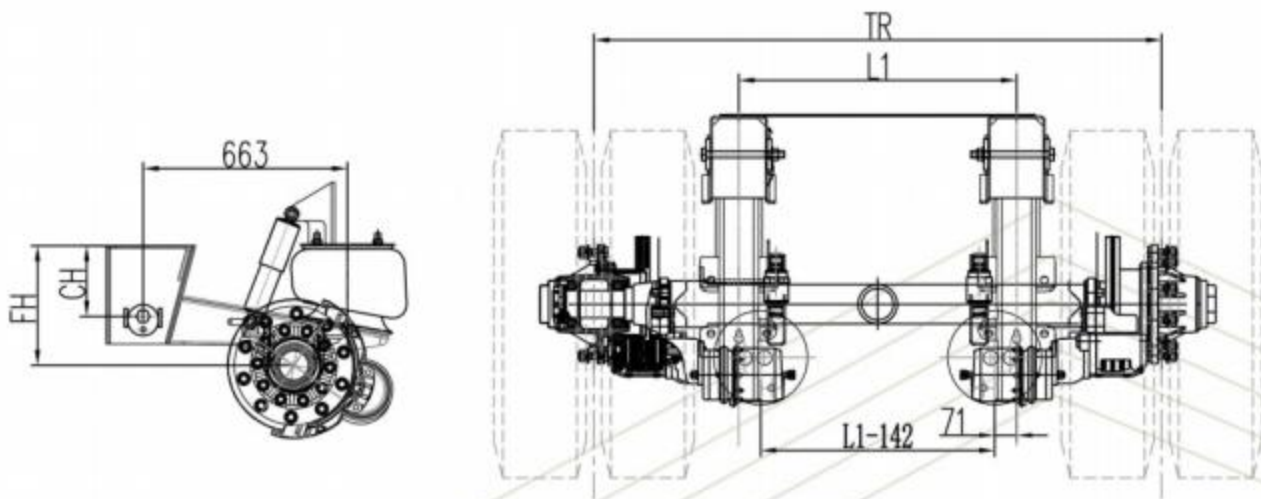


American 13T H-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam
13T H-type air suspension	ZX-HAS13(360-570)	13T	360-570	≥1800	≥860	Φ146/Φ127

- Remark:
- 1. Double-sided lifting is optional, and the lifting height is 60-80mm;
 - 2. The lifting method can be equipped with manual control valve or electric control valve;
 - 3. Optional rotary slide valve to control the lifting of the whole vehicle
 - 4. Disk brake type axle or drum type axle is optional.

AMERICAN 13T H-TYPE AIR SUSPENSION
(FOR EXPORT TYPE)

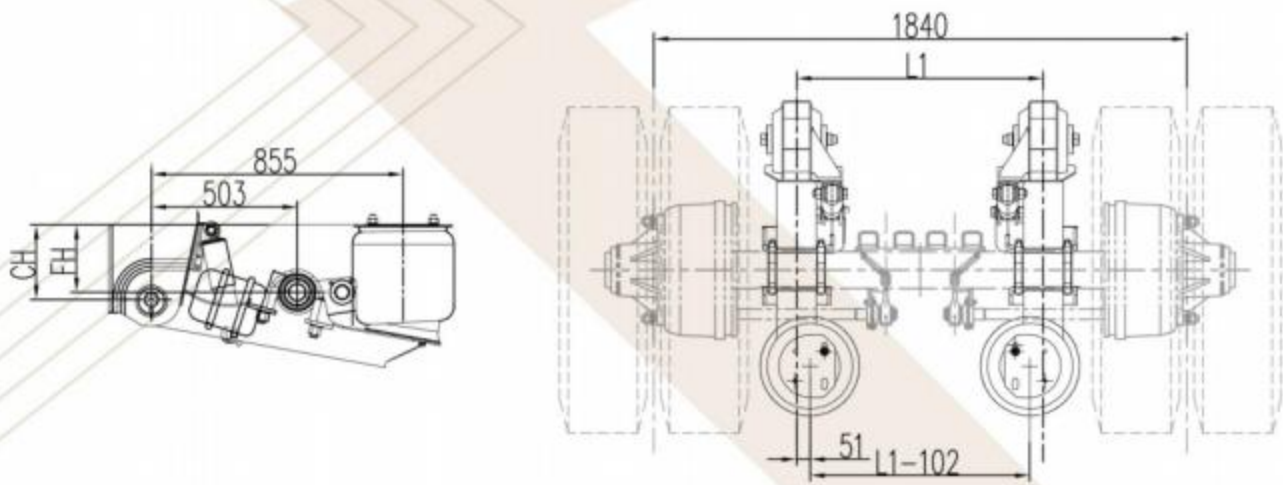
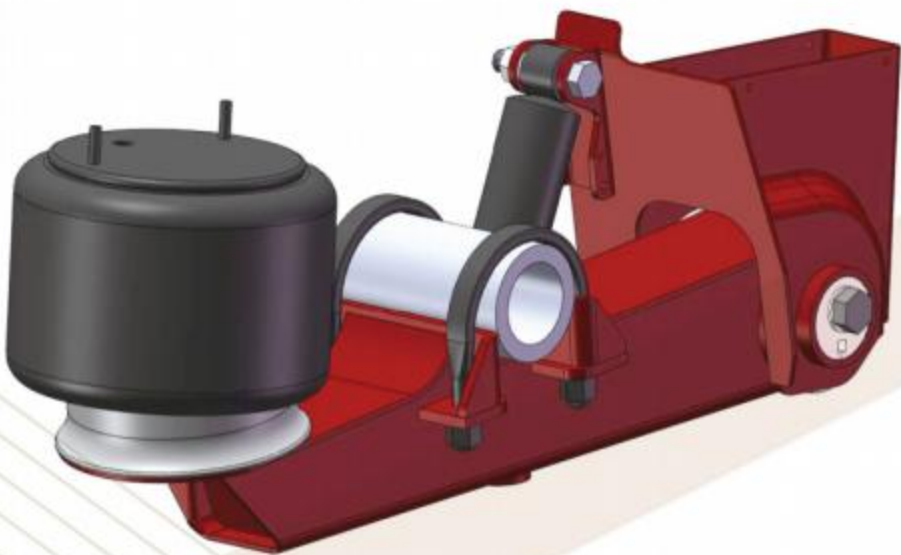


American 13T H-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam
13T H-type air suspension(for export type)	ZX-HWAS13(360-570) HAS13(360-570)	13T	360-570	≥1800	≥860	Φ127

- Remark:
- 1.Double-sided lifting is optional, and the lifting height is 60-80mm;
 - 2.The lifting method can be equipped with manual control valve or electric control valve;
 - 3.Optional rotary slide valve to control the lifting of the whole vehicle
 - 4.Disk brake type axle or drum type axle is optional.

AMERICAN 13T H-TYPE AIR SUSPENSION
(UNDERSLUNG TYPE)



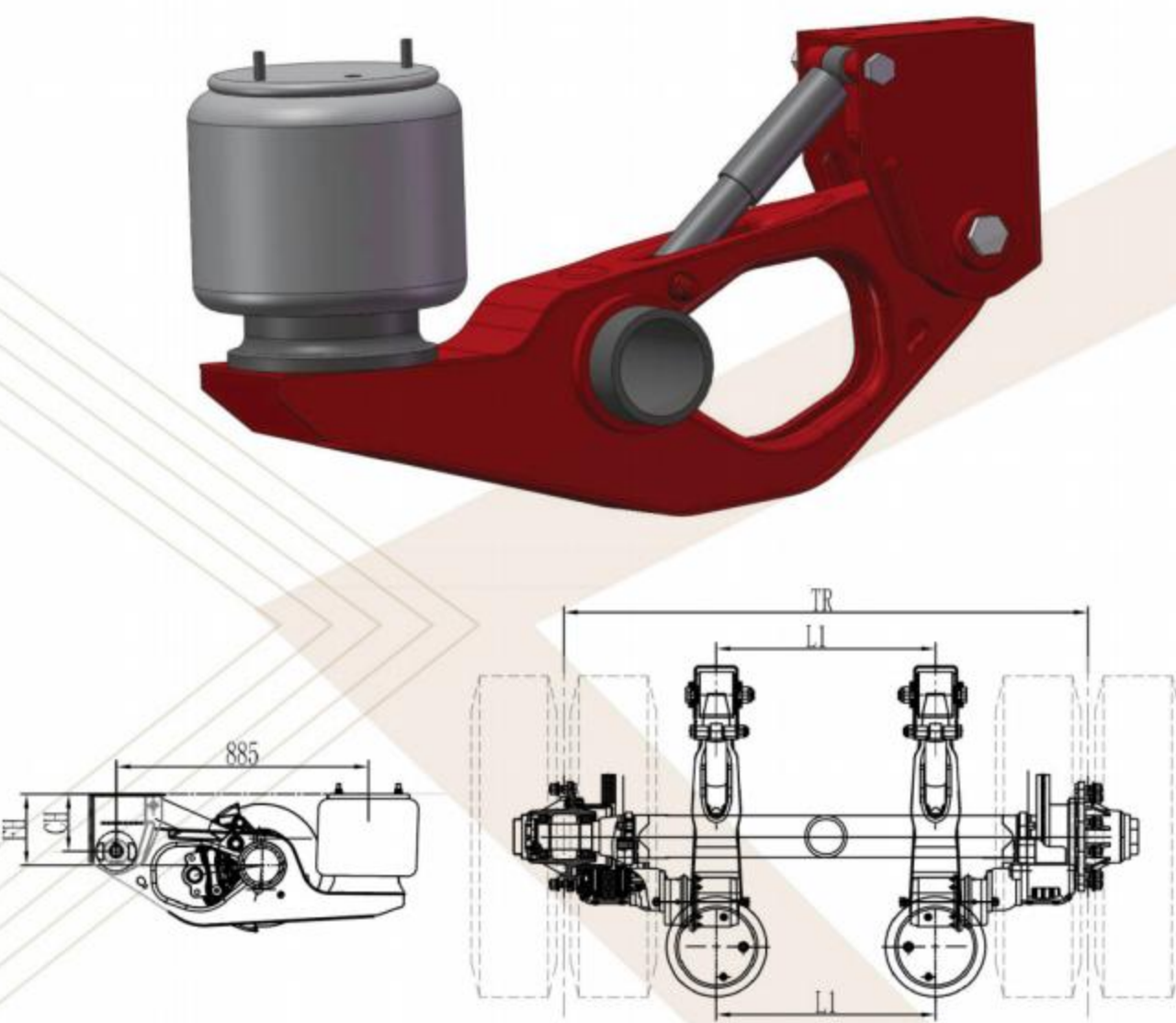
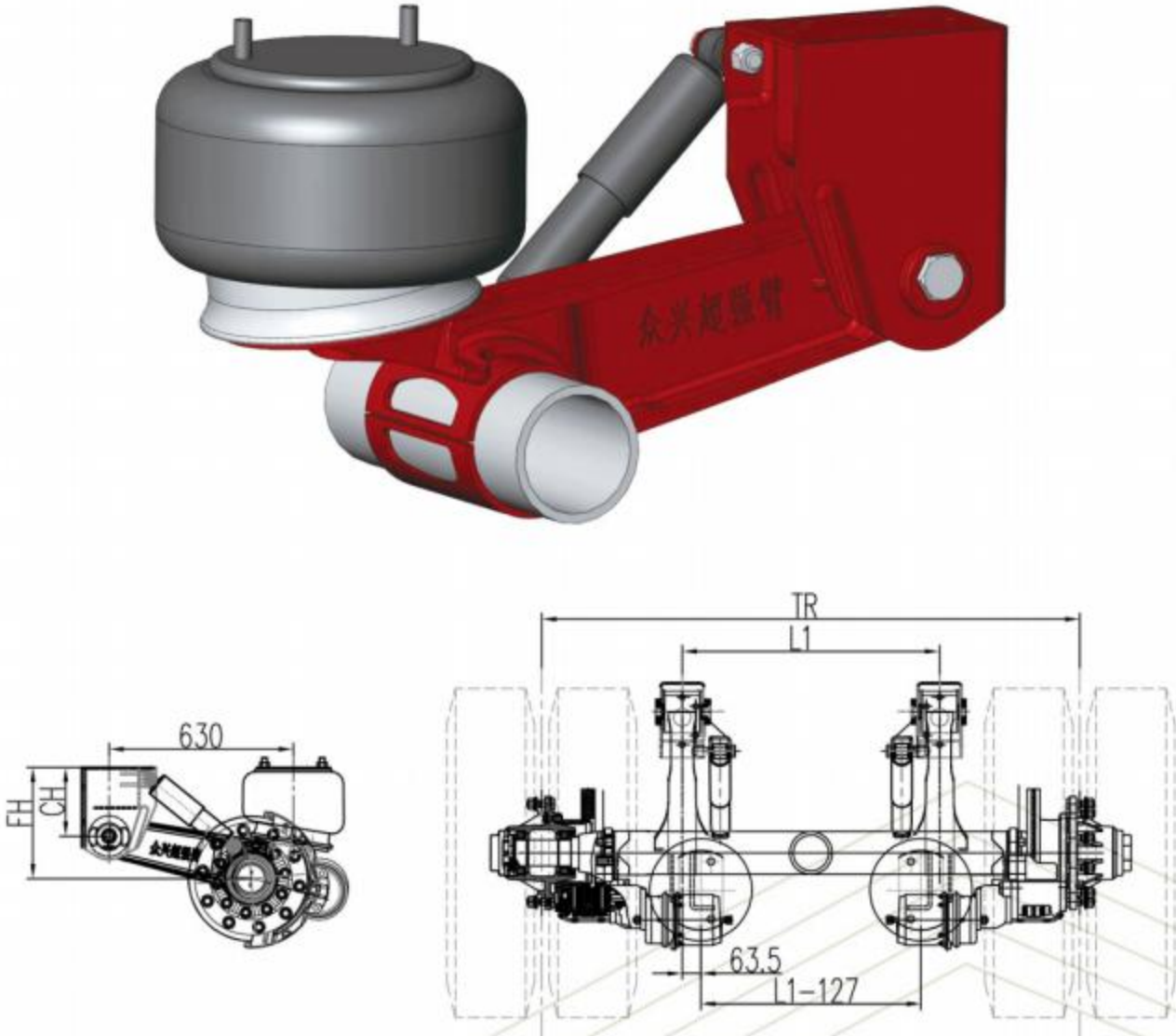
American 13T H-type air suspension Technical data sheet:

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam
13T H-type air suspension (underslung type)	ZX-HFAS13(190-350)	13T	190-350	≥1840	≥900	Φ127

- Remark:
- 1.Optional rotary slide valve to control the lifting of the whole vehicle
 - 2.Only can be equipped with drum type axle

13T F-TYPE AIR SUSPENSION

13T F-TYPE AIR SUSPENSION (WELDED AXLE BEAM)



13T F-type air suspension Technical data sheet:

13T F-type air suspension (welded axle beam) Technical data sheet:

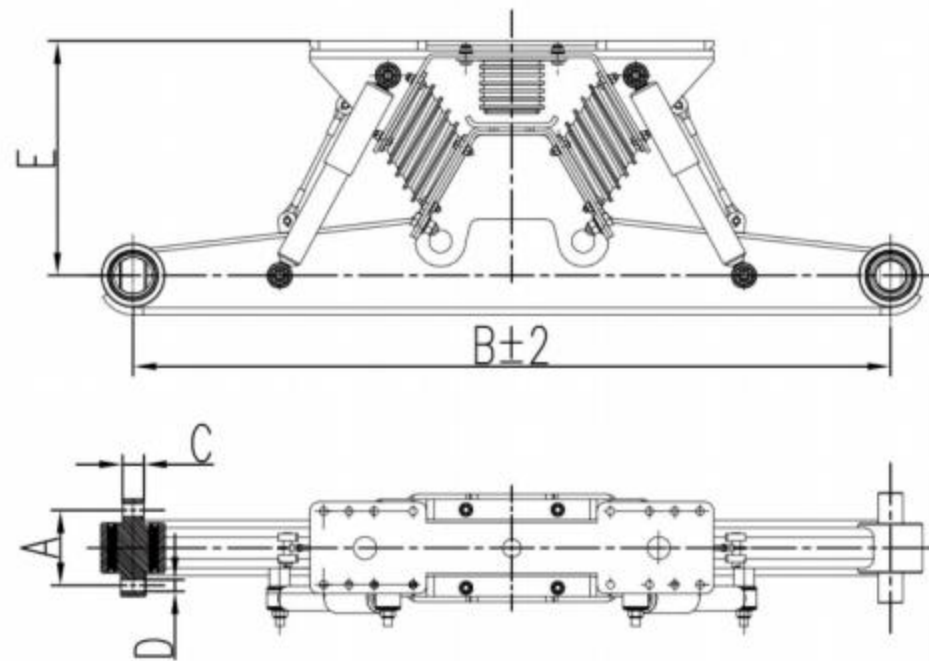
Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam
13T F-type air suspension	ZX-FAS13(370-460)	13T	370-460	≥1800	≥860	Φ146

Name	Model	105Km/H Allowed loads	Ride height FH value Allowed range (mm)	Track TR (mm)	Suspension installation center distance L1 (mm)	Axle beam
13TF-type air suspension (welded axle beam)	ZX-FFS13(215-435)	13T	215-435	≥1840	≥770	φ146

Remark:
1.Optional rotary slide valve to control the lifting of the whole vehicle
2.Disk brake type axle or drum type axle is optional.

Remark:
1.Optional rotary slide valve to control the lifting of the whole vehicle
2.Disk brake type axle or drum type axle is optional.

RUBBER SUSPENSION



Rubber Suspension Technical data sheet:

Load bearing	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
25t	180/164	1650	54/47	Φ28/Φ25	512
16t	164	1350	47	Φ25	428

Product features:

1. The bearing capacity is extremely strong, and the reliability of the rubber elastic parts is very high
2. Light weight, economical
3. Simple structure, easy installation and maintenance
4. No lubrication, no maintenance
5. Good road passability.

LEAF SPRING SUSPENSION LIFTING DEVICE



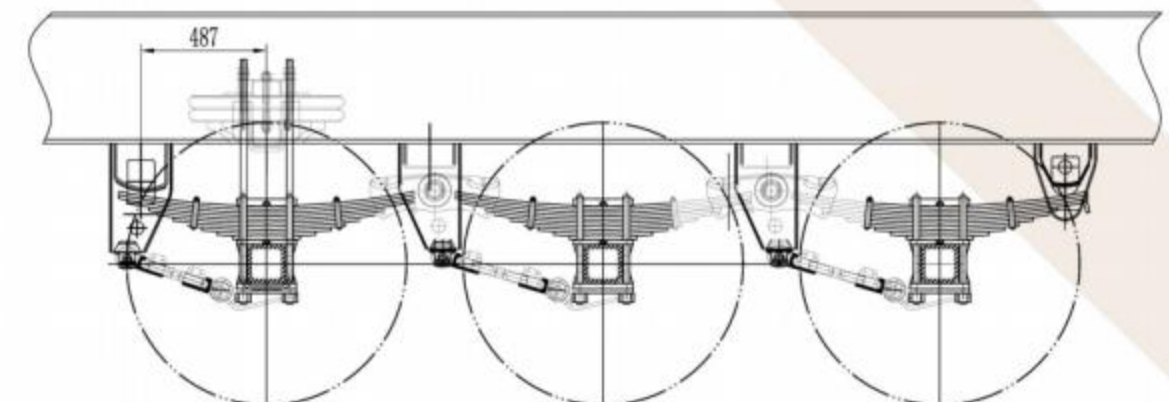
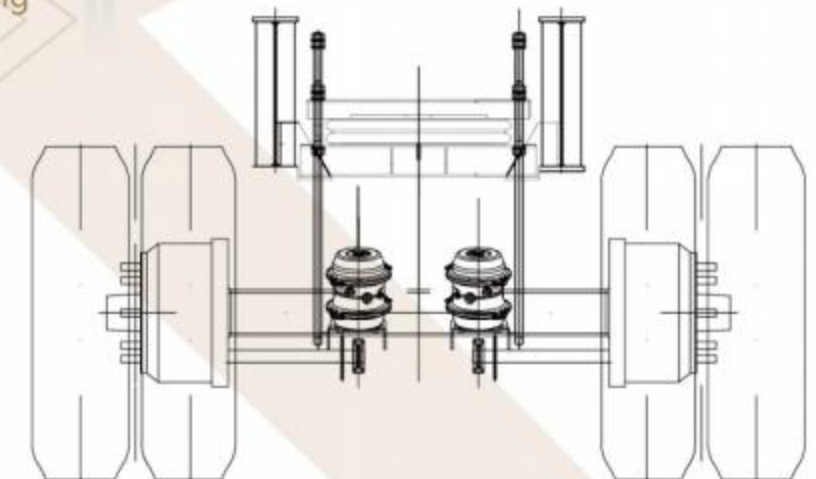
Product advantages:

1. Reduce tire wear. Reduce fuel consumption and reduce vehicle operating costs.
2. High-strength material manufacturing, light weight, convenient installation, low maintenance cost and long service life.

Product instruction:

1. The leaf spring suspension Lifting Device is suitable for unloading for semi trailer, lifting height is 90mm~100mm.
2. When assembling the special mechanical suspension, it can realize full loading lifting, lifting the height by 90~100mm.
3. Optional manual control poppet or electronically controlled poppet valve.
4. It suitable for the semi trailer main beam height >350mm.

Leaf Spring Suspension lifting Device Diagram:

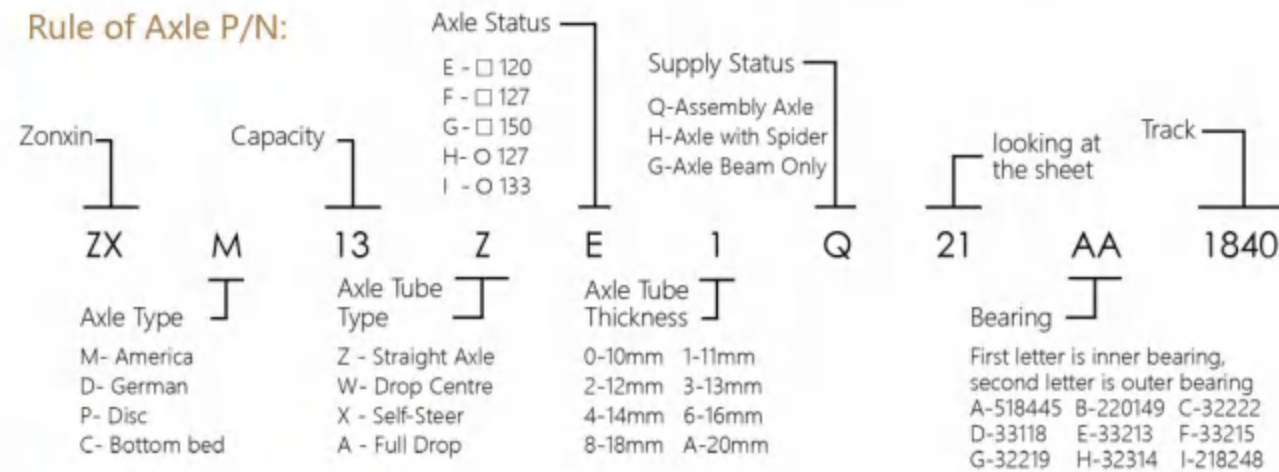


AXLE SERIES

Axle Features:

1. The integral high-quality alloy steel axle beam with special heat treatment has strong bearing capacity, long life, light weight and superior performance.
2. The high-precision braking system makes the braking performance more stable and reliable; equipped with high-performance and high-quality friction plates, the braking performance is strong and the wear-resistant life is long.
3. The camshaft and hub cover are equipped with sealing rings, and the sealing performance is good.
4. When the special lubricating grease is at -30°C~120°C, the oil film maintains good uniformity and lubricating effect.
5. International standard design, reserved space for ABS installation, can be matched with ABS systems provided by all manufacturers, and easy to install.

Rule of Axle P/N:

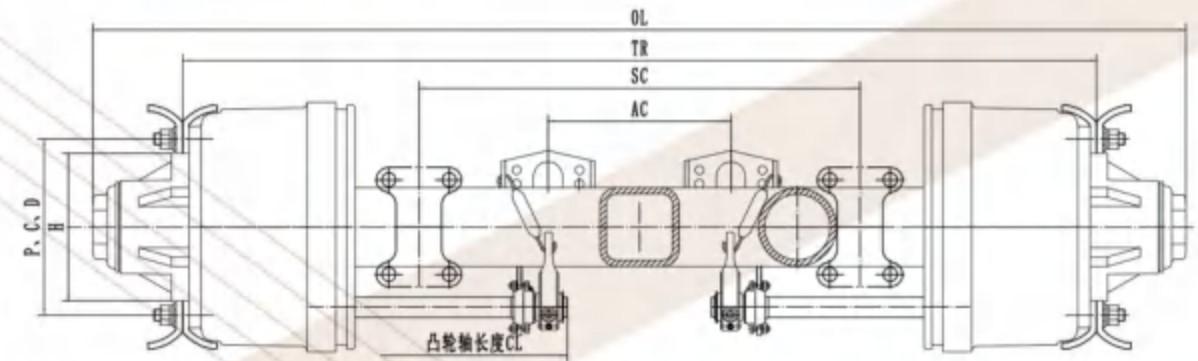


Production advantages:

1. After more than ten years of development, research and production, ZONXIN axle series products have formed a variety of series products to meet various needs of customers.
2. After technical transformation, it has advanced rolling production line, machining production line and assembly production line, forming an annual production capacity of 100 000pieces.
3. ZONXIN adheres to "quality first" and provides customers with high-quality services.

Serial No.	Wheel hub, brake drum type	Brake drum height	P, C, D	ØH	Wheel hub bolt	Brake
00	American type without brake drum		335	281	10XM22X1.5 ISO	
01	German type without brake drum		335	281	10XM22X1.5 ISO	
10	American inboard type	251	335	281	10XM22X1.5 ISO	Ø420×180
11	American inboard type	288	335	281	10XM22X1.5 ISO	Ø420×220
12	American inboard type	288	335	281	10XM24X1.5 ISO	Ø420×220
20	German inboard type	252	335	281	10XM22X1.5 ISO	Ø420×180
21	German inboard type	284	335	281	10XM22X1.5 ISO	Ø420×200
22	German inboard type	284	335	281	10XM22X1.5 ISO	Ø420×200
23	German inboard type	298	335	281	10XM22X1.5 ISO	Ø420×200
24	German inboard type	298	335	281	10XM22X1.5 ISO	Ø420×200
30	American outboard type	270	285	220	8XM20X1.5 JAP	Ø420×180
31	American outboard type	268	335	281	10XM22X1.5 ISO	Ø420×180
32	American outboard type	285	285.75	220	10XM22X1.5 ISO	Ø420×200
33	American outboard type	314	335	281	10XM22X1.5 ISO	Ø420×220
40	Low bed inboard type	265	225	176	10XM22X1.5 ISO	Ø311×190
41	Low bed inboard type	240	225	176	10XM22X1.5 ISO	Ø311×190
50	Disc brake type		335	281	10XM22X1.5 ISO	248
51	Disc brake type		335	281	10XM22X1.5 ISO	210

ZONXIN AXLE-INBOARD TYPE M-SERIES



Inboard drum type M series technical data sheet

Model	Max. capacity (kg)	Axle beam (mm)	Track TR (mm)	S type cam brake Dimensions Ø×Width (mm)	Brake chamber center distance AC	Center distance of Chamber AC(mm)	Camshaft Length CL (mm)	No. of teeth	Wheel Fixing Studs (mm)	P/C/D	H	Total Length OL (mm)	Applicable steel ring
ZXM10ZF4Q10AA1840	10,000	□ 120	1840	Ø420×180	≥ 900	385	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM10ZF2Q10AA1840	10,000	□ 127	1840	Ø420×180	≥ 900	385	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZF4Q11AA1840	13,000	□ 127	1840	Ø420×220	≥ 900	348	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM10ZH2Q10AA1840	10,000	○ 127	1840	Ø420×180	≥ 900	385	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZH6Q11AA1840	13,000	○ 127	1840	Ø420×220	≥ 900	348	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM10ZJ2Q10AA1840	10,000	○ 146	1840	Ø420×180	≥ 900	385	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZJ4Q10AA1840	13,000	○ 146	1840	Ø420×220	≥ 900	348	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZG2Q10AA1840	13,000	□ 150	1840	Ø420×180	≥ 900	385	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZG2Q11AA1840	13,000	□ 150	1840	Ø420×220	≥ 900	348	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM16ZG4Q11BA1850	16,000	□ 150	1850	Ø420×220	≥ 900	358	590	37	10×M22×1.5 ISO	335	281	~2200	8.0V-20
ZXM20ZG6Q12CA1850	20,000	□ 150	1850	Ø420×220	≥ 900	355	590	37	10×M22×1.5 ISO	335	281	~2250	8.5V-20
ZXM25ZG8Q12CA1850	25,000	□ 150	1850	Ø420×220	≥ 900	355	590	37	10×M22×1.5 ISO	335	281	~2245	8.5V-20

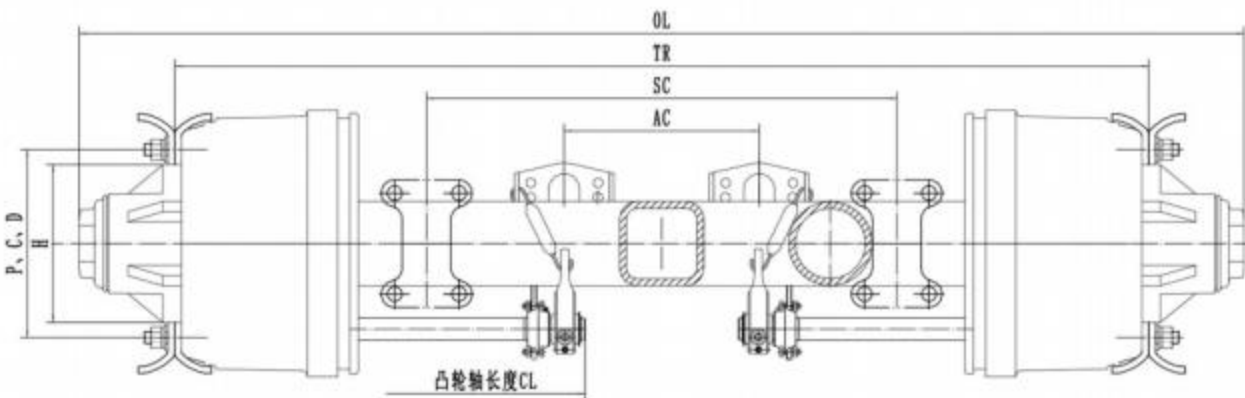
Remark:

1. Track TR can be customized according to customer requirements.
2. Camshaft length CL can be customized according to customer requirements.
3. Assemble ABS sensor and ring gear according to customer requirements.

Features:

1. Processed one-piece, special heat-treated, alloy steel axle beam offers more stability, greater capacity and lighter weight, long service life and excellent performance.
2. Axle beam have straight spindle or tapered spindle with induction-hardened bearing journals provide superior fatigue capability.
3. High machining precision of braking system, non asbestos brake linings, make the braking performance more stable, extend service life.
4. The camshaft equipped with seal, the hub cap matched with O sealing ring has excellent sealing performance, ensuring no grease can go into the brake drum, which ensures safety.
5. It is suitable for all kinds of semi trailer.

ZONXIN AXLE-OUTBOARD TYPE M SERIES



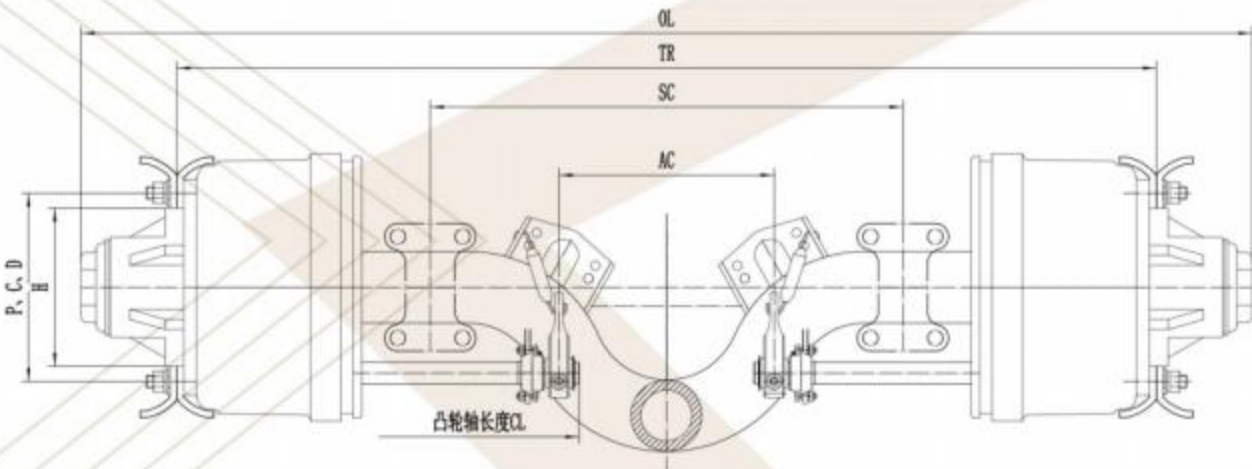
Outboard brake drum M type specification:

Model	Max. capacity (kg)	Axle beam (mm)	Track TR (mm)	S type cam brake Dimensions Ø x Width (mm)	Brake chamber center distance AC (mm)	Center distance of Chamber AC (mm)	Camshaft Length CL (mm)	No. of teeth	Wheel Fixing Studs (mm)	P/C/D	H	Total Length OL (mm)	Applicable steel ring
ZXM13ZH6Q31AA1840	13.000	○ 127	1840	Ø420×180	≥ 900	390	590	37	10×M22×1.5 ISO	335	281	~2165	7.5V-20
ZXM13ZH6Q30AA1840	13.000	○ 127	1840	Ø420×180	≥ 900	385	590	37	8×M20×1.5 JAP	285	220	~2165	7.5V-20
ZXM13ZG2Q30AA1840	13.000	□ 150	1840	Ø420×180	≥ 900	385	590	37	8×M20×1.5 JAP	285	220	~2185	7.5V-20
ZXM13ZG2Q31AA1840	13.000	□ 150	1840	Ø420×180	≥ 900	390	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM13ZG2Q32AA1840	13.000	□ 150	1840	Ø420×200	≥ 900	365	590	37	10×M22×1.5 ISO	287.5	220	~2185	7.5V-20
ZXM13ZG2Q33AA1840	13.000	□ 150	1840	Ø420×220	≥ 900	355	590	37	10×M22×1.5 ISO	335	281	~2185	7.5V-20
ZXM16ZG6Q33BA1850	16.000	□ 150	1850	Ø420×220	≥ 900	358	590	37	10×M22×1.5 ISO	335	281	~2200	8.0V-20

Remark:

- 1. Track TR can be customized according to customer requirements.
- 2. Camshaft length CL can be customized according to customer requirements.
- 3. Assemble ABS sensor and ring gear according to customer requirements.

ZONXIN AXLE-INBOARD TYPE M SERIES DROP CENTER



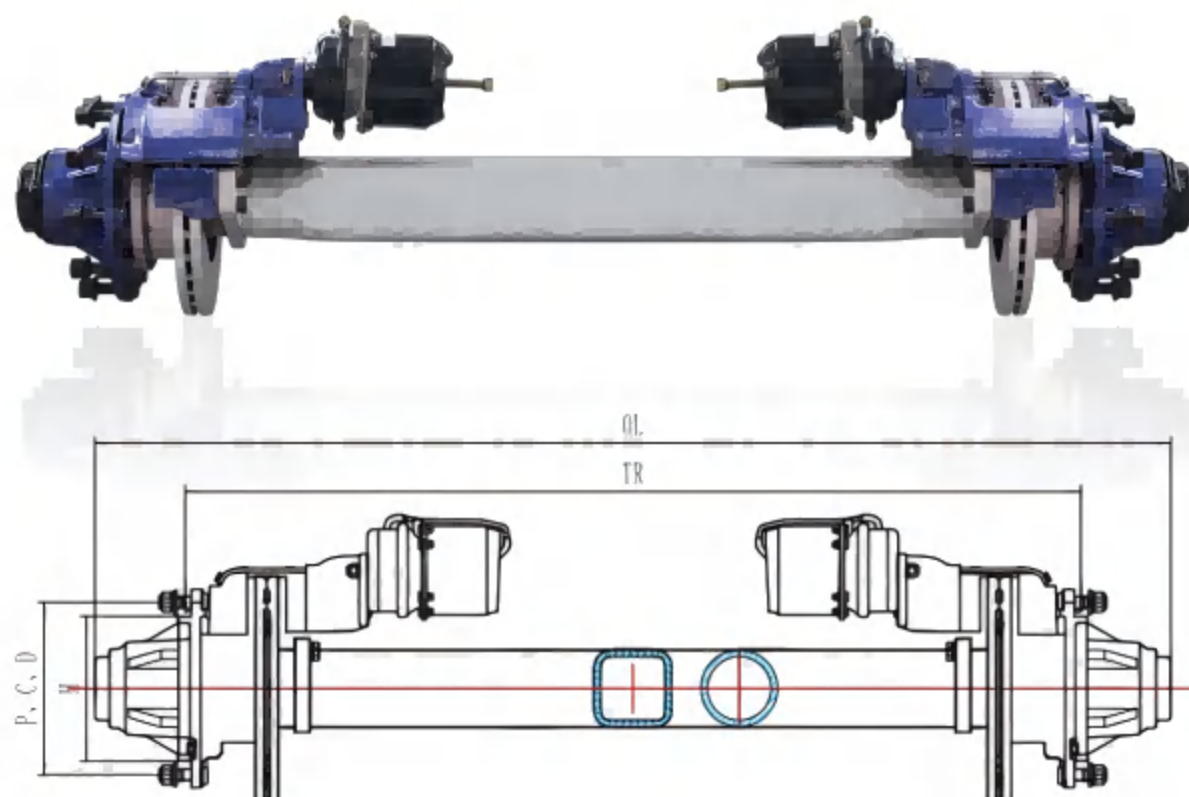
Inboard drum type M series drop center type technical data sheet:

Model	Max. capacity (kg)	Axle beam (mm)	Track TR (mm)	S type cam brake Dimensions Ø x Width (mm)	Brake chamber center distance AC (mm)	Center distance of Chamber AC (mm)	Camshaft Length CL (mm)	No. of teeth	Wheel Fixing Studs (mm)	P/C/D	H	Total Length OL (mm)	Applicable steel ring
ZXM13WH6Q00AA1840	13.000	○ 127	1840		≥ 940				10XM22X1.5 ISO	335	281	~2185	7.5V-20
ZXM13WH6Q10AA1840	13.000	○ 127	1840	Ø420×180	≥ 940	365	590	37	10XM22X1.5 ISO	335	281	~2185	7.5V-20

Remark:

- 1. Track TR can be customized according to customer requirements.
- 2. Camshaft length CL can be customized according to customer requirements.
- 3. Assemble ABS sensor and ring gear according to customer requirements.

ZONXIN AXLE-DISC TYPE P SERIES



Axle-disc p type specification:

Model	Max Capacity (Kg)	Axle beam Size (mm)	Track TR (mm)	"S" Cam Brake Series Size x Width (mm)	SC Distance of Center Suspension (mm)	Center distance of Chamber AC (mm)	Spline		Wheel Fixing			Total Length OL (mm)	Recommended Wheel
							Length CL (mm)	No.	Studs (mm)	P/C/D	H		
ZXP11.5H2Q50AA1840	11,500	□ 127	1840	Φ434×45	248				10-M22×1.5 ISO	335	281	~ 2185	7.5V-20
ZXP13ZG2Q50AA1840	13,000	□ 150	1840	Φ434×45	248				10-M22×1.5 ISO	335	281	~ 2185	7.5V-20
ZXP11.5H2Q51AA1840	11,500	□ 127	1840	Φ434×45	210				10-M22×1.5 ISO	335	281	~ 2185	7.5V-20
ZXP13ZG2Q51AA1840	13,000	□ 150	1840	Φ434×45	210				10-M22×1.5 ISO	335	281	~ 2185	7.5V-20

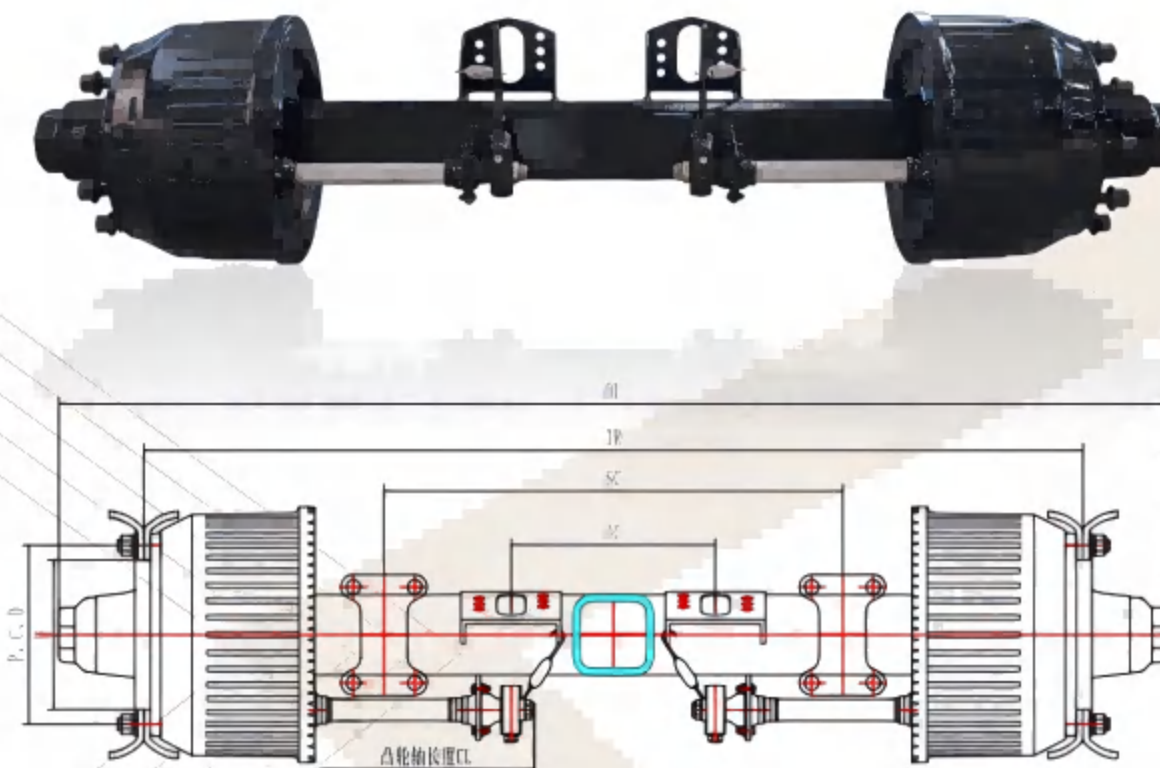
Remark:

1. TR can customized according to customer. 2. CL can customized according to customer requirement.

Features:

1. Super bearing capacity, long life, bottom resistance bearing, light and compact structure.
2. Bayonet link between the brake shoe and the support shaft, easy to install, brake compensation, and quick return.
3. The unique cooling design of brake drum makes the vehicle with good braking performance, safe and reliable.
4. The bearing seal adopts the structure of rolling oil retaining ring, which is simple to install and reliable to seal.
5. Applicable to all kinds of transport semi-trailers.

ZONXIN AXLE-INBOARD TYPE D SERIES



Axle-inboard d type specification:

Model	Max Capacity (Kg)	Axle beam Size (mm)	Track TR (mm)	"S" Cam Brake Series Size x Width (mm)	SC Distance of Center Suspension (mm)	Center distance of Chamber AC (mm)	Spline		Wheel Fixing			Total Length OL (mm)	Recommended Wheel
							Length CL (mm)	No.	Studs (mm)	P/C/D	H		
ZXD12ZG2Q20DE1840	12,000	□ 150	1840	Φ420×180	≥ 940	422	590	10	10×M22×1.5 ISO	335	281	~ 2165	7.5V-20
ZXD12ZG2Q21DE1840	12,000	□ 150	1840	Φ420×200	≥ 940	382	590	10	10×M22×1.5 ISO	335	281	~ 2165	7.5V-20
ZXD14ZG4Q22GF1840	14,000	□ 150	1840	Φ420×200	≥ 940	376	590	10	10×M22×1.5 ISO	335	281	~ 2185	7.5V-20
ZXD14ZG14Q23GF1840	14,000	□ 150	1840	Φ420×200	≥ 940	356	590	10	10×M22×1.5 ISO	335	281	~ 2185	7.5V-20
ZXD16ZG6Q24CH1850	16,000	□ 150	1840	Φ420×200	≥ 940	358	590	10	10×M22×1.5 ISO	335	281	~ 2275	7.5V-20

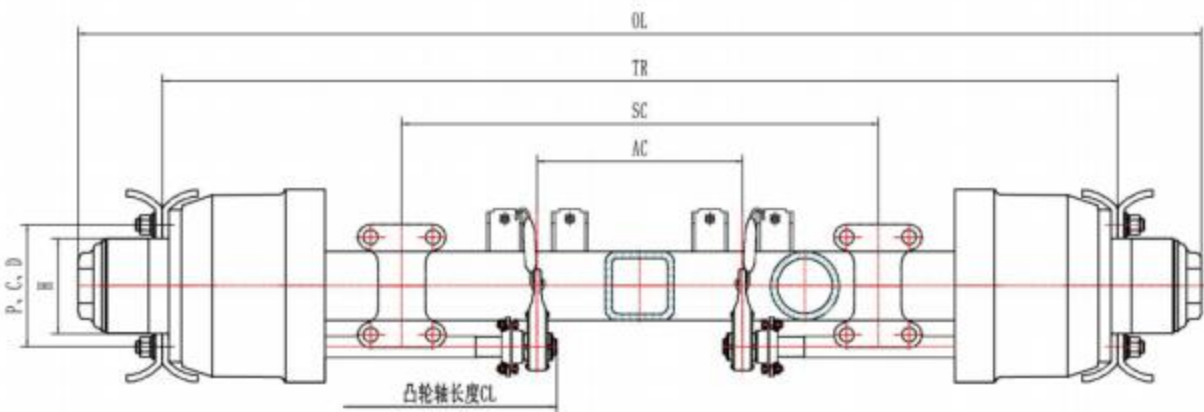
Remark:

1. TR can customized according to customer. 2. CL can customized according to customer requirement.

Features:

1. Super bearing capacity, long life, bottom resistance bearing, light and compact structure.
2. Bayonet link between the brake shoe and the support shaft, easy to install, brake compensation, and quick return.
3. The unique cooling design of brake drum makes the vehicle with good braking performance, safe and reliable.
4. The bearing seal adopts the structure of rolling oil retaining ring, which is simple to install and reliable to seal.
5. Applicable to all kinds of transport semi-trailers.

ZONXIN AXLE LOW-BED SERIES

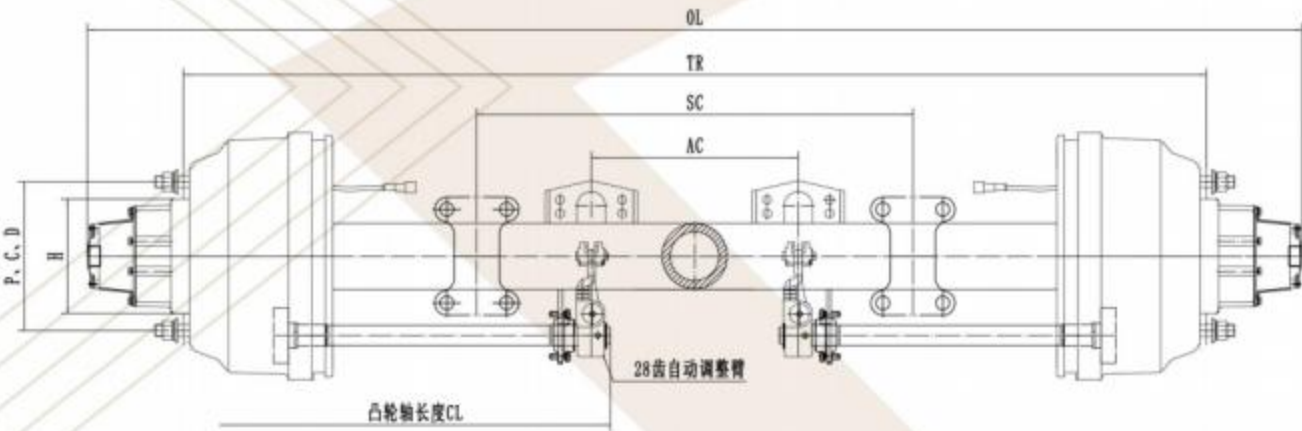


Axle low-bed type specification:

Model	Max Capacity (Kg)	Axle beam Size[mm]	Track TR (mm)	*S*: Cam Brake Series Size x Width (mm)	SC Distance of Center Suspension (mm)	Center distance of Chamber AC(mm)	Spline		Wheel Fixing			Total Length OL (mm)	Recommended Wheel
							Length CL(mm)	No.	Studs (mm)	P/C/D	H		
ZXC11ZH2Q40AA1840	11.000	○ 127	1840	Φ311×190	≥ 920	385	590	37	10×M22×1.5 ISO	225	176	~ 2150	6.5-15
ZXC11ZF2Q40AA1840	11.000	□ 127	1840	Φ311×190	≥ 920	385	590	37	10×M22×1.5 ISO	225	176	~ 2150	6.5-15
ZXC11ZH2Q40II1840	11.000	○ 127	1840	Φ311×190	≥ 920	385	590	37	10×M22×1.5 ISO	225	176	~ 2150	6.5-15
ZXC11ZF2Q40II1840	11.000	□ 127	1840	Φ311×190	≥ 920	385	590	37	10×M22×1.5 ISO	225	176	~ 2150	6.5-15

- Remark:
- 1. Track can be customized according to customer requirements.
 - 2. Camshaft length CL can be customized according to customer requirements.
 - 3. Assemble the ABS brake according to customer needs.

OUTBOARD DRUM TYPE M SERIES(OIL LUBRICATION TYPE)



Outboard drum type M series(oil lubrication type) technical data sheet

Model	Max. capacity (Kg)	Axle beam (mm)	Track TR (mm)	S type cam brake Dimensions Ø x Width (mm)	Brake chamber center distance AC (mm)	Center distance of Chamber AC (mm)	Camshaft		Wheel Fixing			Total Length OL (mm)	Applicable steel ring
							Length CL (mm)	No. of teeth	Studs (mm)	P/C/D	H		
ZXM13ZH2Q34AA1968.5	13.000	○ 127	1968.5	Φ420×180Q	≥ 900	400	648	28	10×M22×1.5 ISO	287.5	220	~2340	7.5V-20
ZXM10ZH2Q34JK1816	10.000	○ 127	1816	Φ420×180Q	≥ 900	403	570	28	10×M22×1.5 ISO	287.5	220	~2120	7.5V-20

- Remark:
- 1. Track TR can be customized according to customer requirements.
 - 2. Camshaft length CL can be customized according to customer requirements.
 - 3. Assemble ABS sensor and ring gear according to customer requirements.

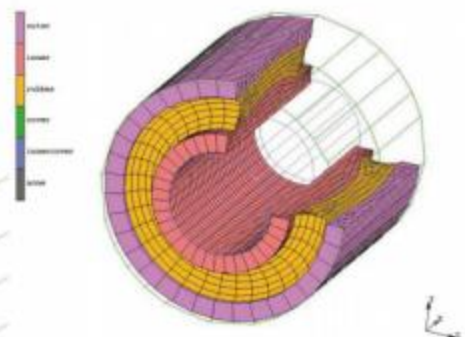
ZONXIN-SUSPENSION PARTS SERIES

TORQUE ARM SERIES

Two years of maintenance-free torque arm is firstly developed by our company in China, and won the national invention patent.

The SRIRBO65A bimetallic rubber bushing is specially developed for the special automotive suspension system torque arm. It mainly uses the following technologies and design concepts:

1. Import the design concept of high-speed train shock absorbing components, use finite element analysis and calculation software, and scientifically design the structural form and stress distribution
2. The rubber formula adopts the special formula developed by our company, which has fatigue resistance, good elasticity, less heat generation and low creep. The applicable temperature range is $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$.
3. The bushing structure adopts rubber and metal vulcanization bonding technology, and the special process is used to make the metal and rubber bonding stronger, and the bonding strength can reach more than 6MPa, which is conducive to improving the stiffness and fatigue strength of the bushing
4. After the bushing is vulcanized, it is installed in a pre-compressed way, which can eliminate the internal stress of the rubber and improve the service life of the bushing
5. Compared with the ordinary product, the service life can reach 3-5 times that of the ordinary ones, saving maintenance and replacement costs



Bimetallic rubber bushing torque arm



Common bushing torque arm

CASTING PARTS SERIES



Torque holder for under-slung type round axle



Torque holder for under-slung type square axle



Heavy-duty one-piece torque holder

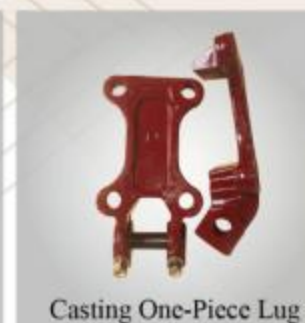


Air suspension spring seat

FORGED SERIES



Forged axle plate



Casting One-Piece Lug



Forged flat plate



Light forged torque arm head

WELDING SERIES



Welding torque holder



Welding under-slung torque holder



Welding round axle torque holder



Welding axle plate

BRAKE CHAMBER**LANDING GEAR****TWIST LOCK****KING PIN**