

# 安联(郑州)工程机械有限公司 MANUFACTURING & ENGINEERING LTD.



# **COMPANY PROFILE**





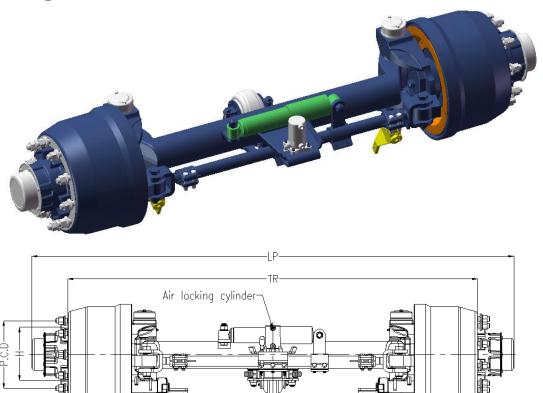
Alion Manufacturing & Engineering Ltd. was founded in 1998, it is a company with total investment CNY 50 million, covering a production area 16,650 square meter, located in Zhengzhou High Technology Industrial Zone, Henan, China.

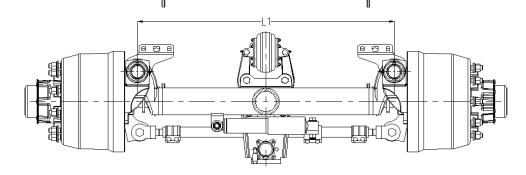
Being an ISO 9001: 2015 International Quality System certified enterprise, since its born Alion has been concentrating on Research, Design & Manufacturing of Trailer axles, Agricultural axles, Special axles, Bogies, Mechanical & Air suspensions. During the past almost 20 years we have gained rich experience in the field of designing and manufacturing of Axles & Suspensions. At the same time, we continue to invest in the most advanced equipment and keep upgrading and maintaining the facilities we have had. We can provide our customers with high quality products by combining modern equipment with advanced processing technology and perfect Quality Control System.

Our business Philosophy is people-oriented; Honesty and Sincerity; Continuous Improvement; Meeting customer's demands.

Based on Reliable Quality, Reasonable Price, Perfect Service, we have made our products enjoy high prestige in the market of America, Europe, Africa & Asia. Nowadays, Alion Manufacturing & Engineering Ltd. is becoming one of the leading manufacturers of Axles & Suspensions in China.





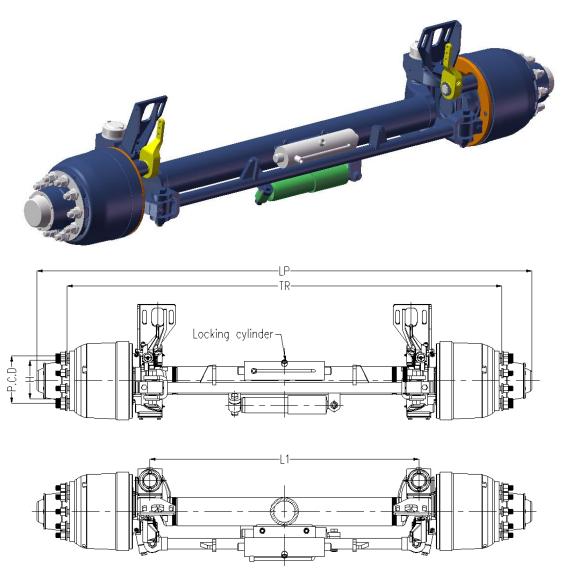


### **Axle specifications**

	Max. Loading	LP Total	TR Track	L1 Kingpin	Doam Tuno	Brake	Wheel Fixing			Max.
Axle Type	Capacity at 105km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	Beam Type (mm)	(mm)	Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL4220R127.1930T04	11,500	2270	1930	1210	Ø127	Ø420 <b>×</b> 203	10-M22×1.5	Ø335	Ø281	18°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake size & bearing sizes are available.
- 4. 120x120, 130x130 & 150x150 axle beams are available.



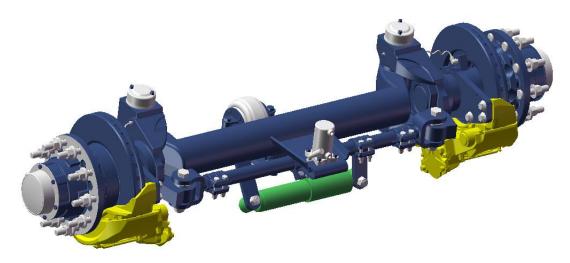


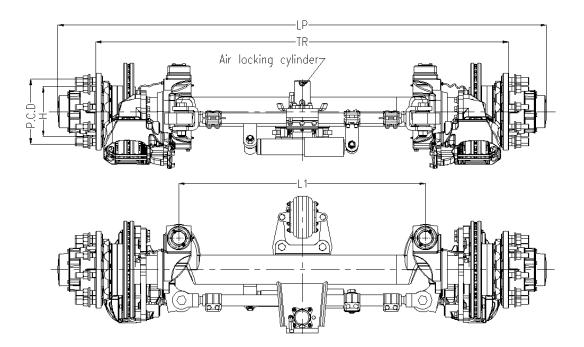
### **Axle specifications**

	Max. Loading	LP Total	TR Track	L1 Vingnin	Doom Tuno	Beam Type Brake (mm) (mm)	Wheel Fixing			Max.
Axle Type	Capacity at 105km/h (kg)	Length (mm)	Length (mm)	Kingpin Distance (mm)	· · · ·		Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL3119R127.1970T01	11,000	2143	1970	1218	Ø <b>127</b>	∅310×190	10-M22×1.5	<b>Ø225</b>	Ø <b>17</b> 6	18°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake size & bearing sizes are available.
- 4. 120x120, 130x130 & 150x150 axle beams are available.





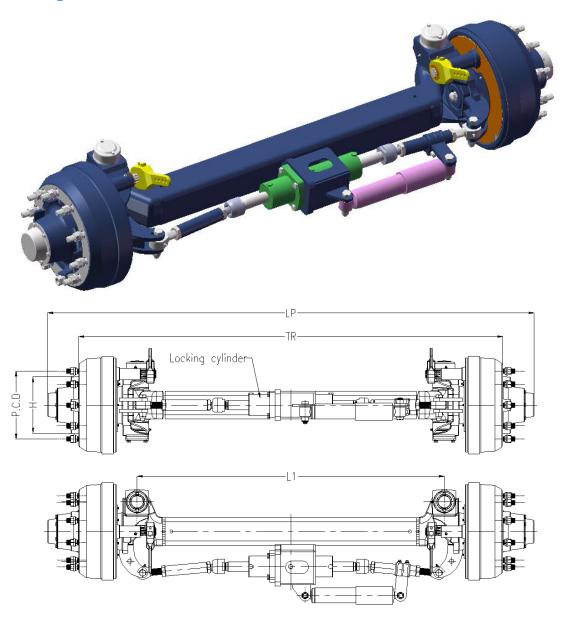


## **Axle specifications**

	Max. Loading Capacity	LP Total	TR Track	L1 Kingpin	Beam Type	Brake	W	heel Fixing		Max.
Axle Type	at 105km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	(mm)	(in.)	Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL4345R127.1850T02S	11,000	2162	1850	1091	Ø127	22.5" DISC	10-M22×1.5	Ø285.75	Ø220	18°

- 2. ABS is available.
- 3. Specified brake sizes & bearing sizes are available.
- 4. 120x120, 130x130 & 150x150 axle beams are available.





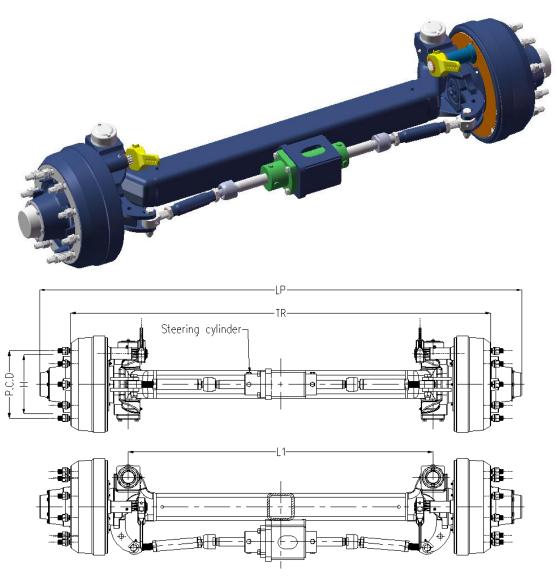
## **Axle specifications**

	Max. Loading Capacity	LP Total	TR Track	L1 Kingpin	Beam Type	Brake (in.)	w	Max.		
Axle Type	at 60km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	(mm)		Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL4012S130.2000T03	13,000	2296	2000	1450	□130	Ø406×120	10-M22×1.5	Ø <b>33</b> 5	Ø281	16°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake sizes & bearing sizes are available.
- 4. Ø127, 120x120 & 150x150 axle beams are available.



# Power steering axle



### **Axle specifications**

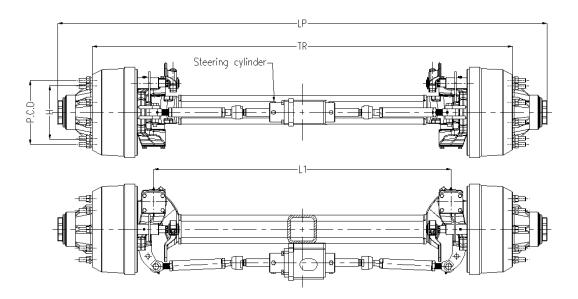
		Max. Loading	LP Total	TR	L1	/ / /	Brake (mm)	Wh	Max.		
Axi	le Type	Capacity at 60km/h (kg)	Length (mm)	Track Length (mm)	Kingpin Distance (mm)			Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL4012S	130.2000T02	13,000	2296	2000	1450	□130	Ø406×120	10-M22×1.5	Ø <b>33</b> 5	Ø281	18°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake sizes & bearing sizes are available.
- 4. Ø127, 120x120 & 150x150 axle beams are available.



# **Power steering axle**





## **Axle specifications**

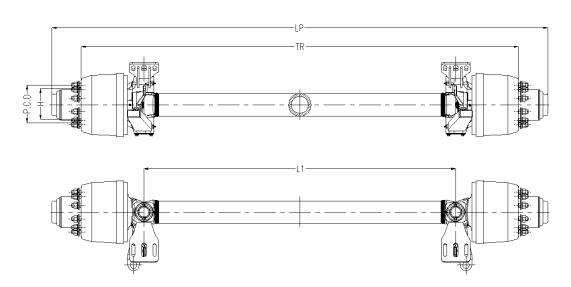
	Max. Loading Capacity	LP Total	TR Track	L1 Kingpin	Doam Tuno	Brake	Wh	Max.		
Axle Type	at 60km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	Beam Type (mm)	(mm)	Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL4218S150.2200T01	16,000	2561	2200	1556	□150	Ø420×180	10-M22×1.5	Ø335	Ø281	18°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake sizes & bearing sizes are available.



# Power steering axle for TRIDEC control system





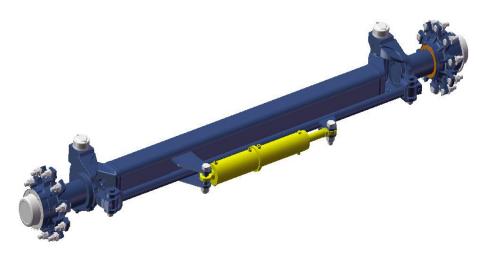
### **Axle specifications**

	Max. Loading Capacity	LP Total	TR Track	L1 Kingpin	Beam Type	Brake	Wh	Max.		
Axle Type	at 105km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	(mm)	(mm)	Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL3119R127.2500T02	12,000	2808	2500	1766	Ø127	Ø310×190	10-M22×1.5	Ø <b>225</b>	Ø176	35°

- 2. ABS and automatic slack adjuster are available.
- 3. Specified brake sizes & bearing sizes are available.

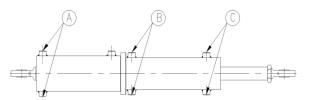


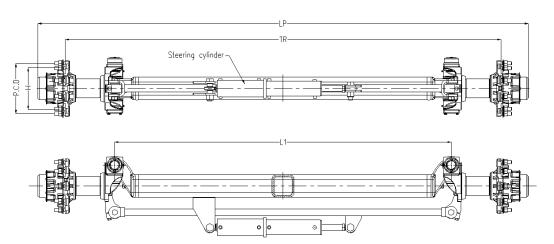
# Multi-functional steering axle



### Multi-functional cylinder:

- Self steering mode: Port A & C in use, Port B fitted with air breather.
- Power steering mode: Port B & C in use,
   Port A with air breather.





### **Axle specifications**

	Max. Loading Capacity	LP Total	TR Track	L1 Kingpin	Beam Type	Brake	Wh	eel Fixing		Max.
Axle Type	at 60km/h (kg)	Length (mm)	Length (mm)	Distance (mm)	(mm)	(mm)	Studs (mm)	P.C.D (mm)	H (mm)	Steering Angle
AL0000S150.3000T03	12,000	3348	3000	2299	□150	None	10-M22×1.5	Ø335	Ø281	26°

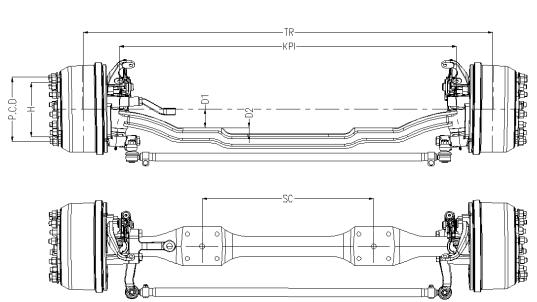
Notes: 1. Specified track length is available.

2. Braked axle is available.



# Front steering axle





### Axle specifications

	Max.	TR Track	KPI Kingpin	SC Contro Distance	D1	D2	Brake	Whe	eel Fixing		Daggaranaand
Axle Type	Loading Capacity (kg)	Length (mm)	Intersection (mm)	Centre Distance of Spring Seats (mm)	Beam Drop I (mm)	Beam Drop II (mm)	(mm)	Studs (mm)	P.C.D (mm)	H (mm)	Recommend -ed Wheel
AL4118H110.2101C01	7,500	2101	1813	1180	75	130	Ø410×180	10-M22×1.5	Ø335	Ø281	8.0V-20

- 2. ABS and automatic slack adjuster are available.
- 3. Max. steering angle: inside 41°, outside 33°
- 4. Disc brake is available.